



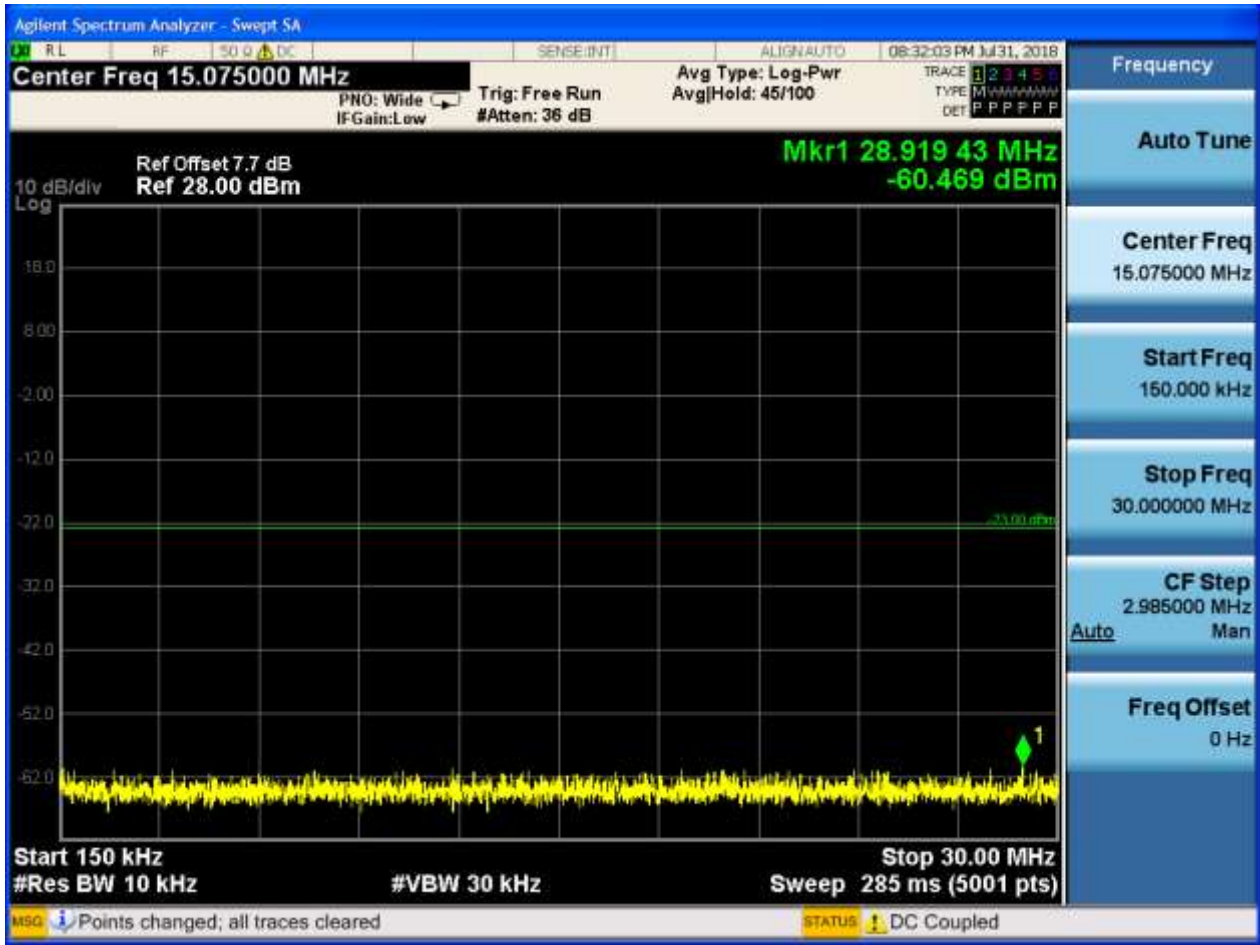


6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





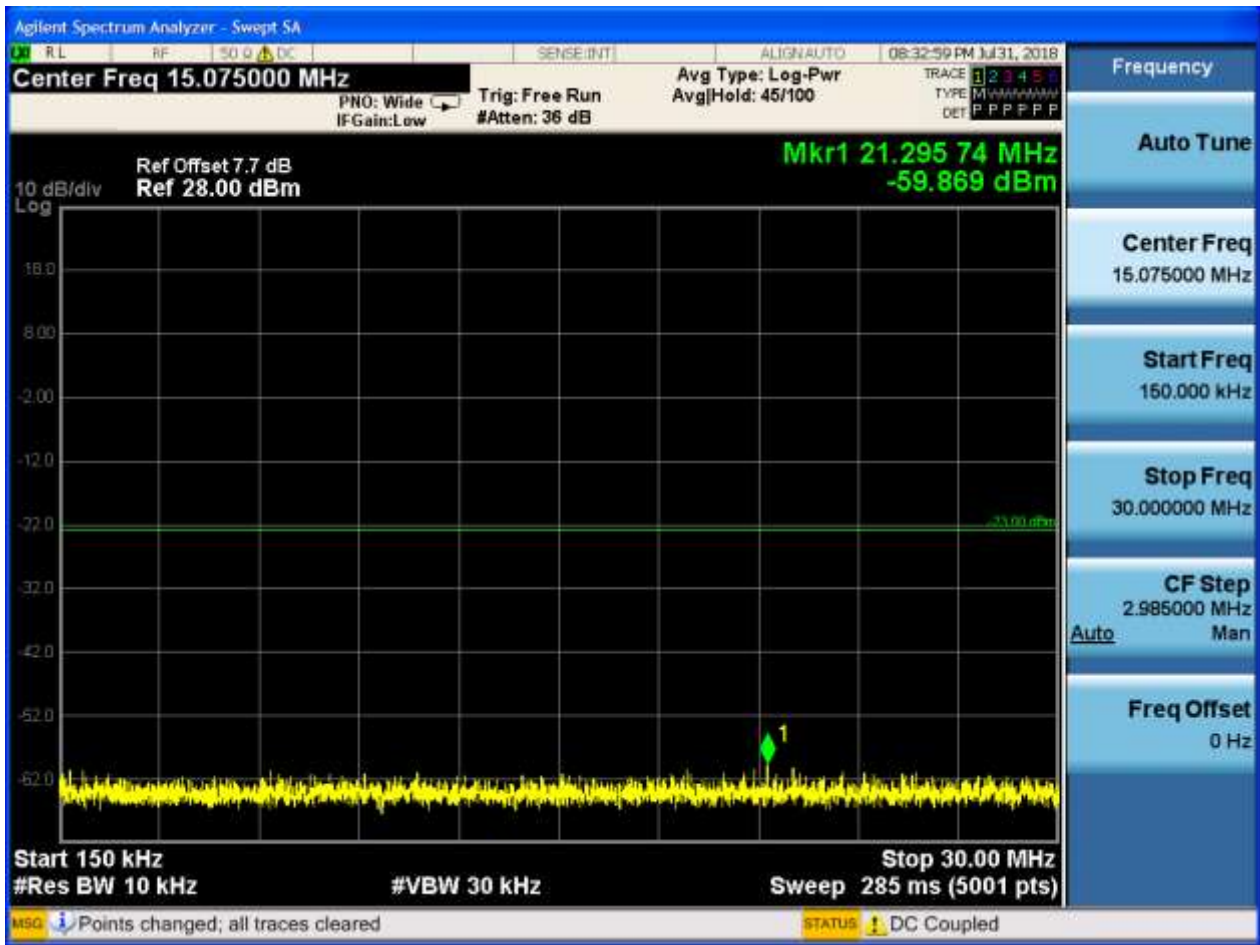


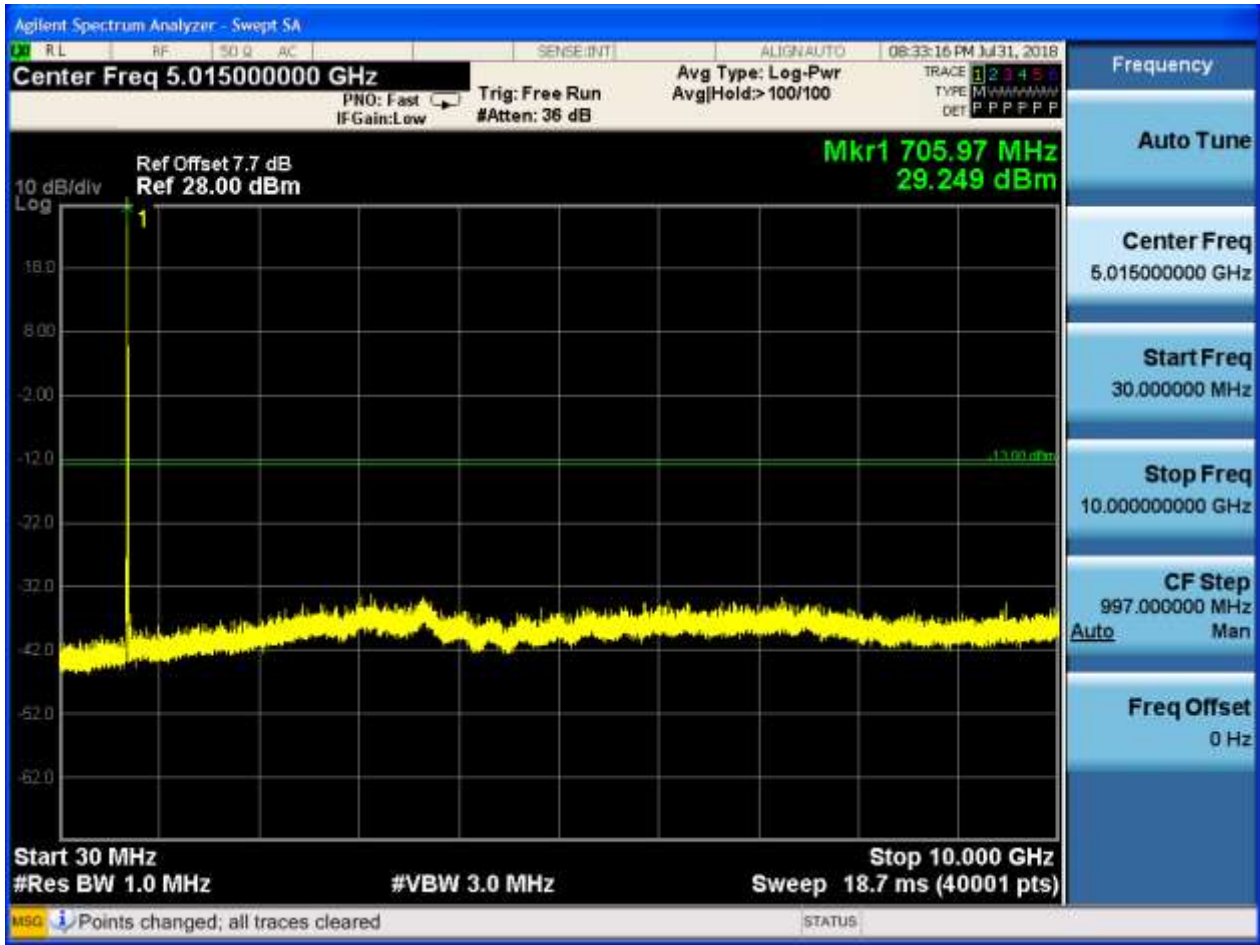


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



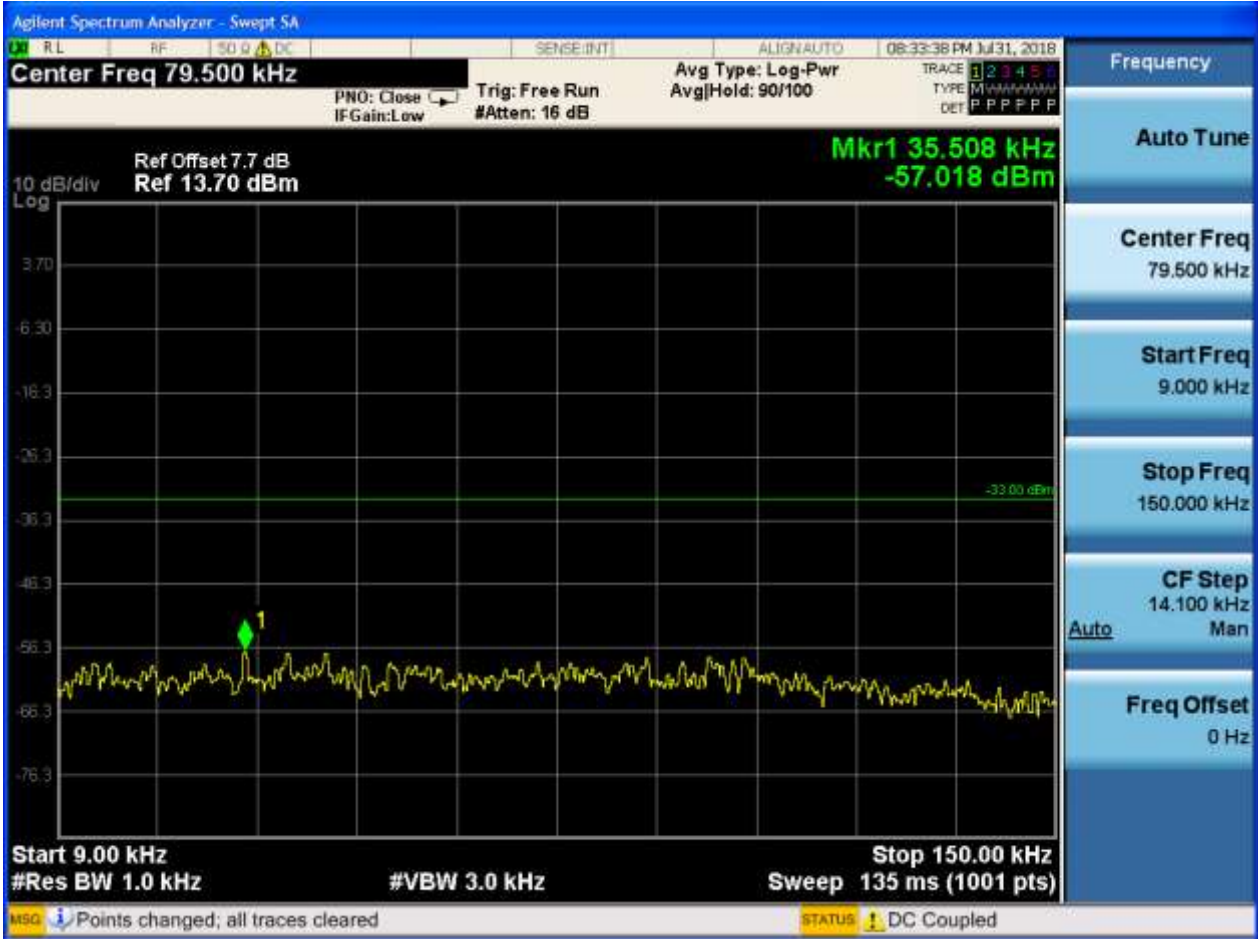


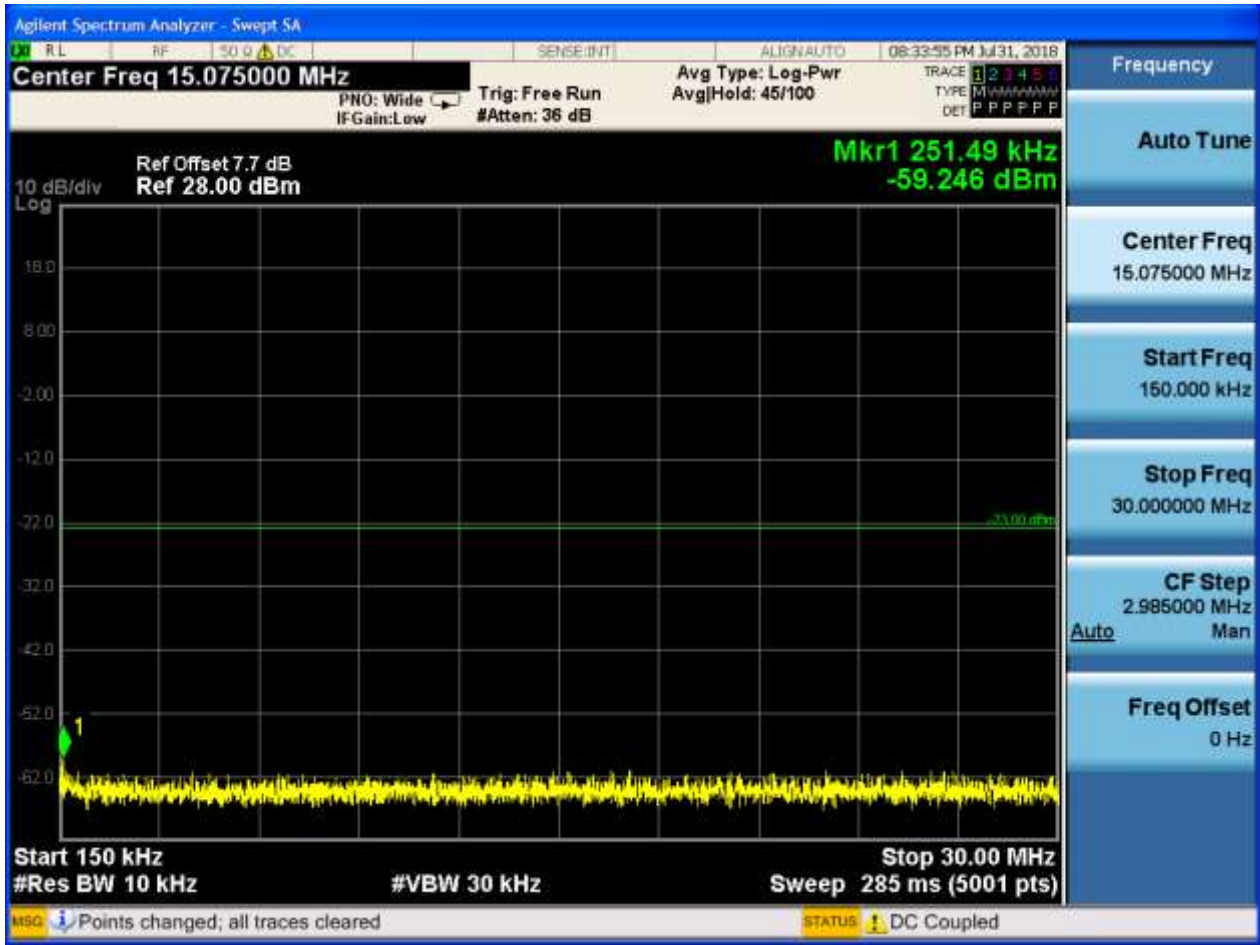




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







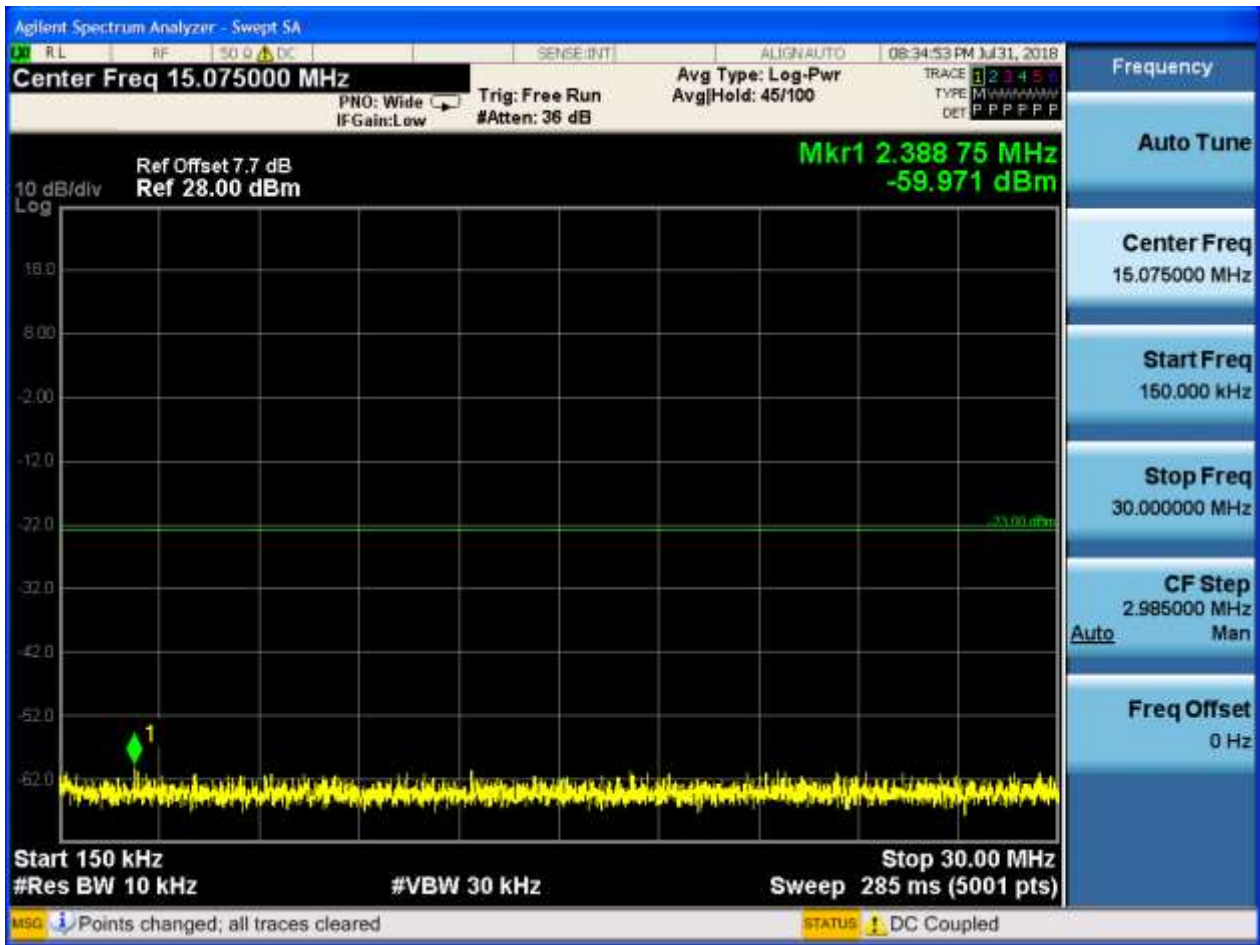


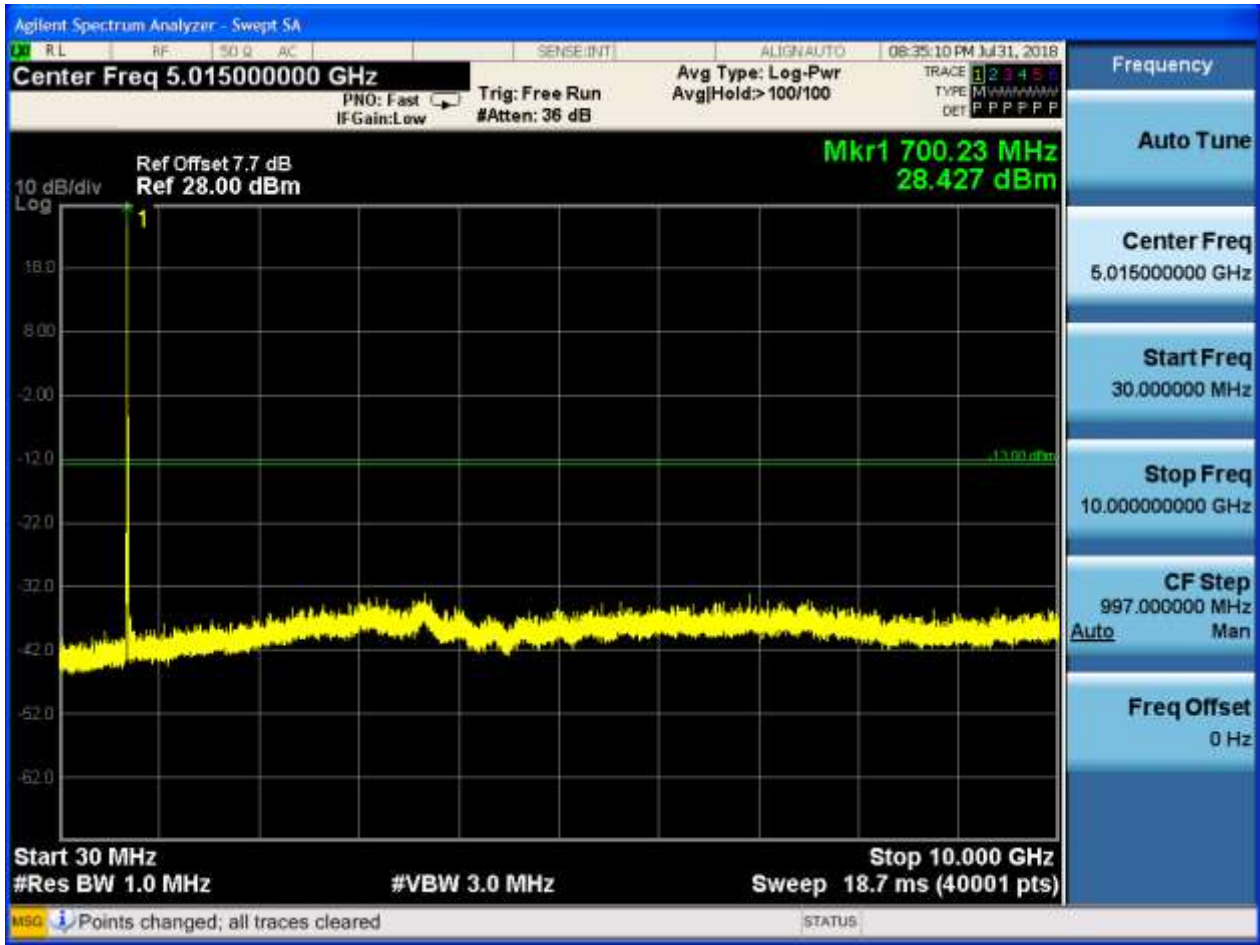
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



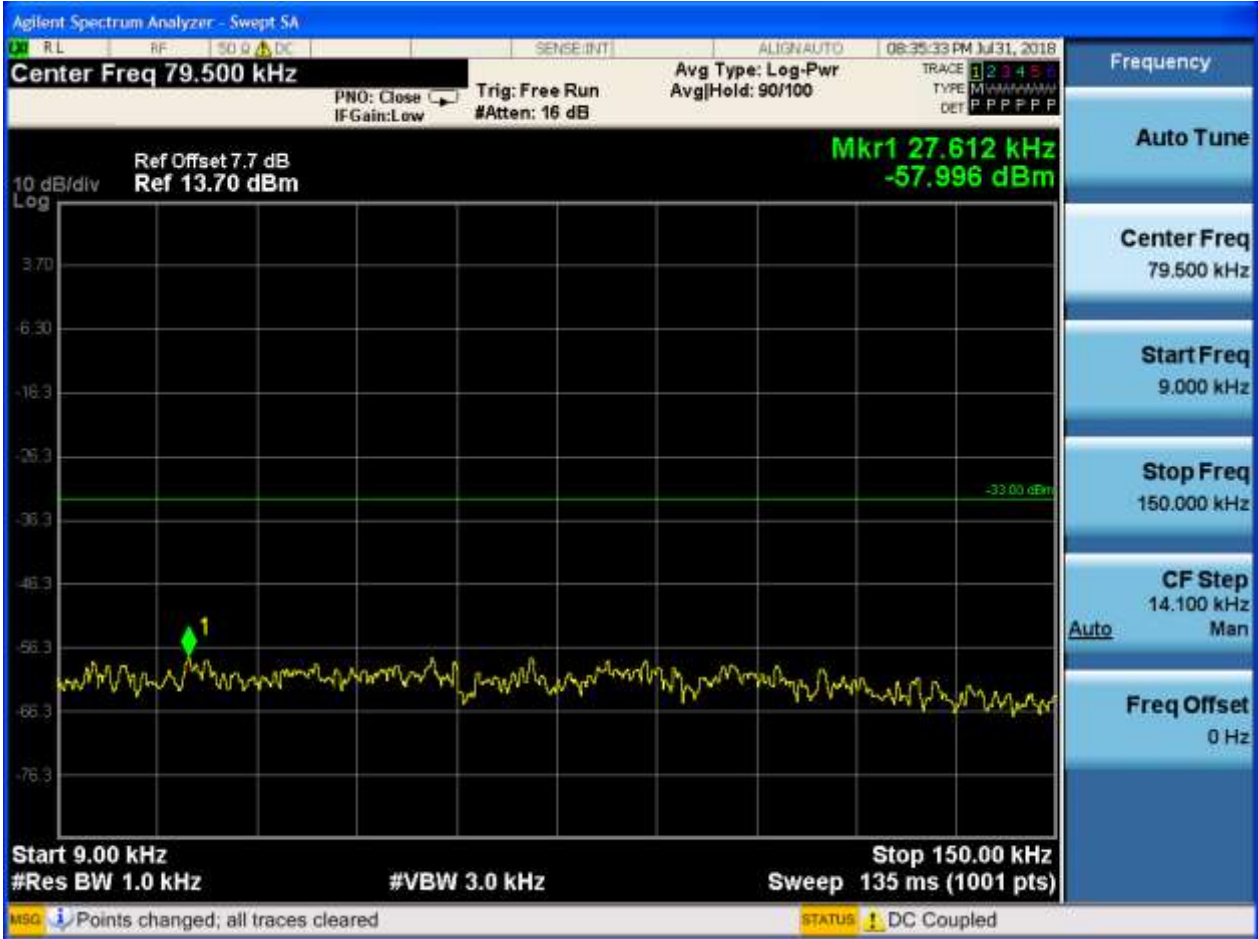


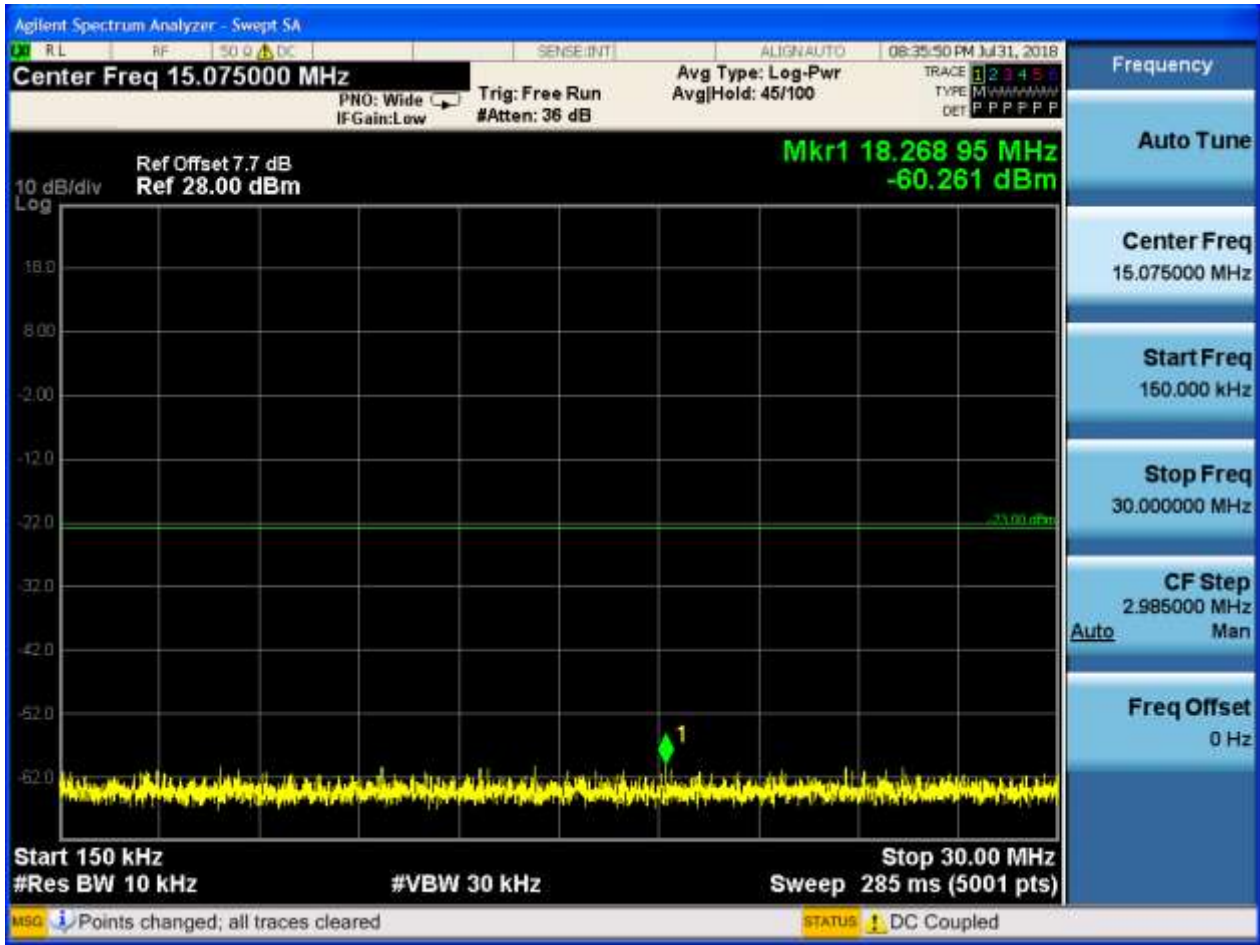




6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0





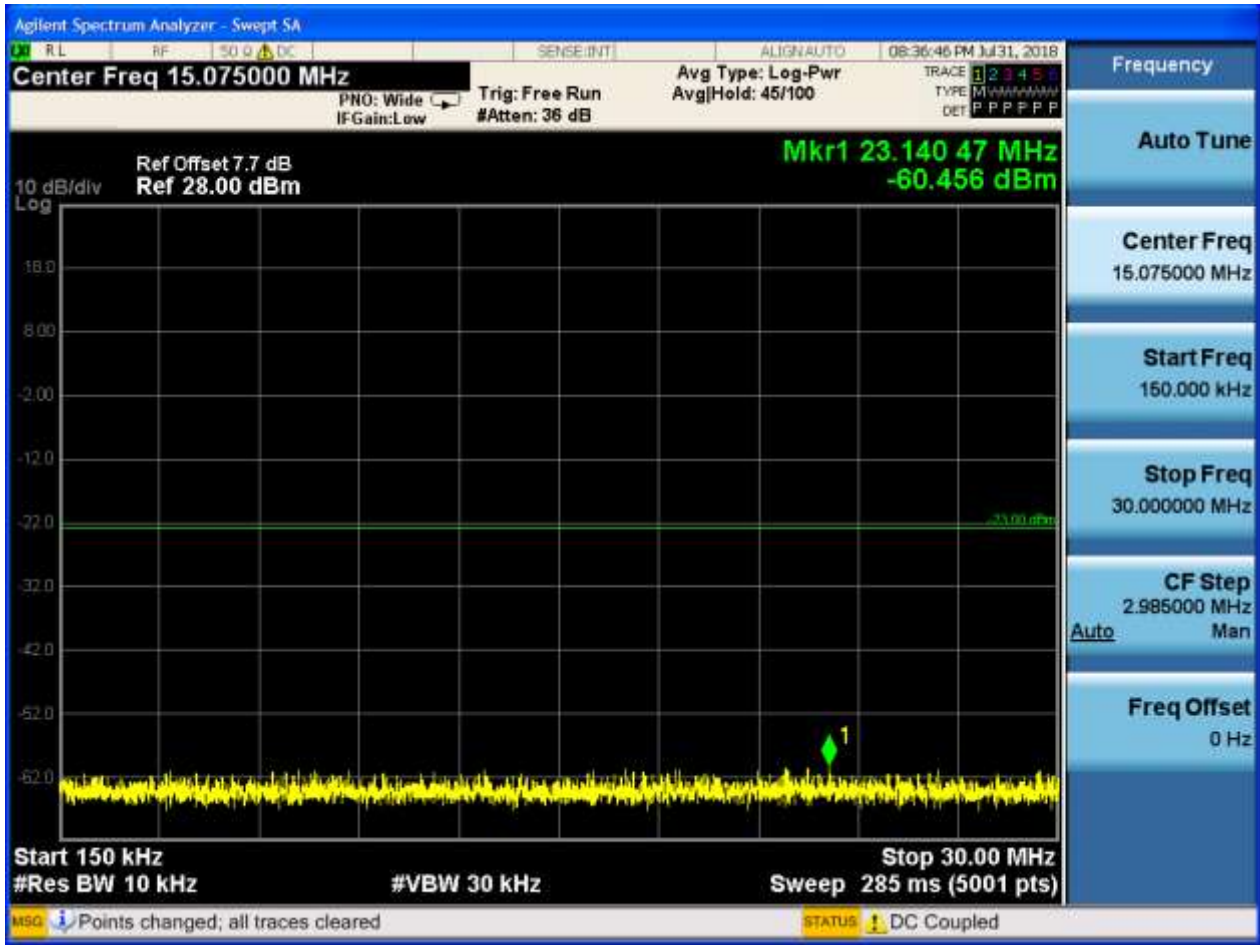


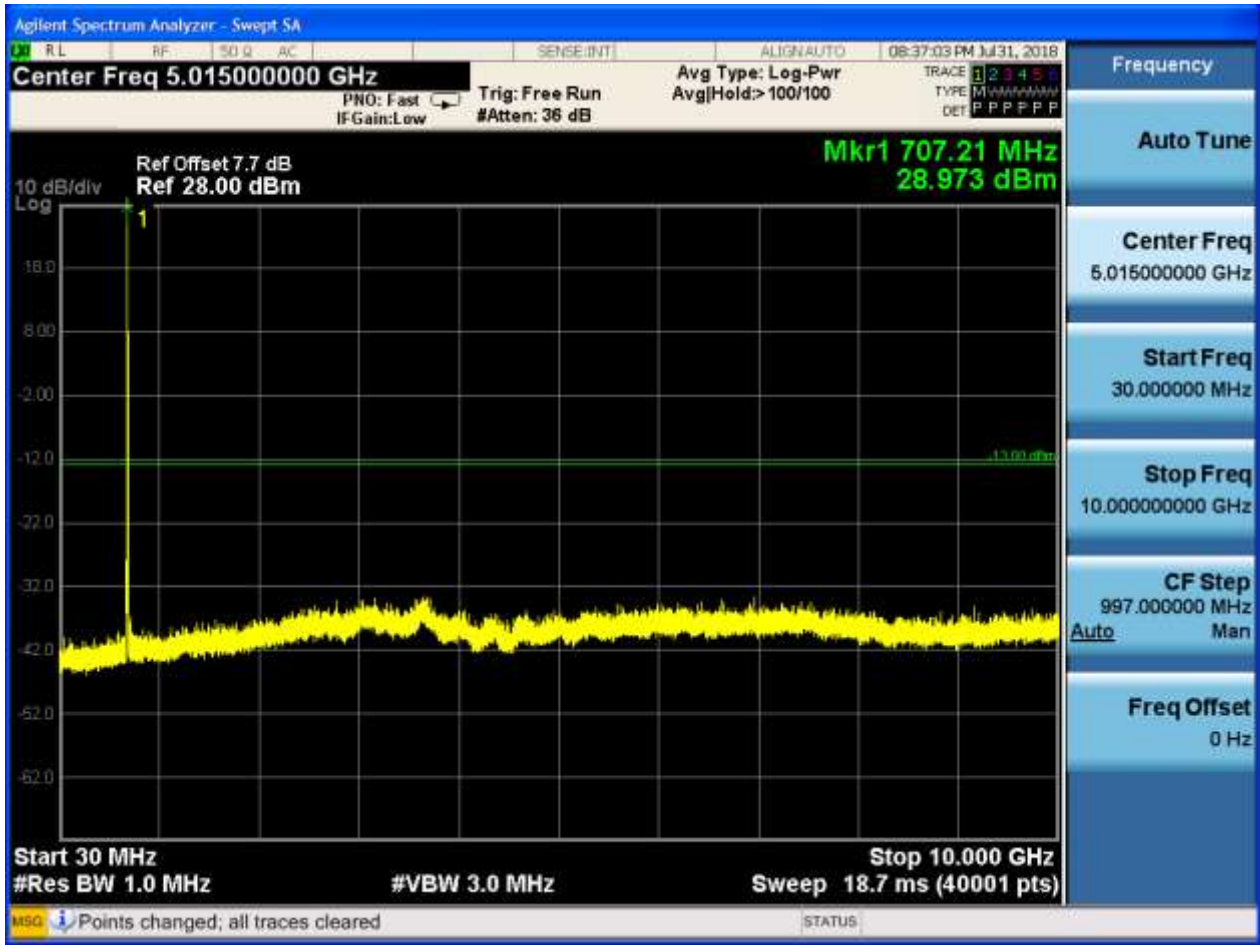


6.1.1.2.4.3 Test Channel = HCH

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

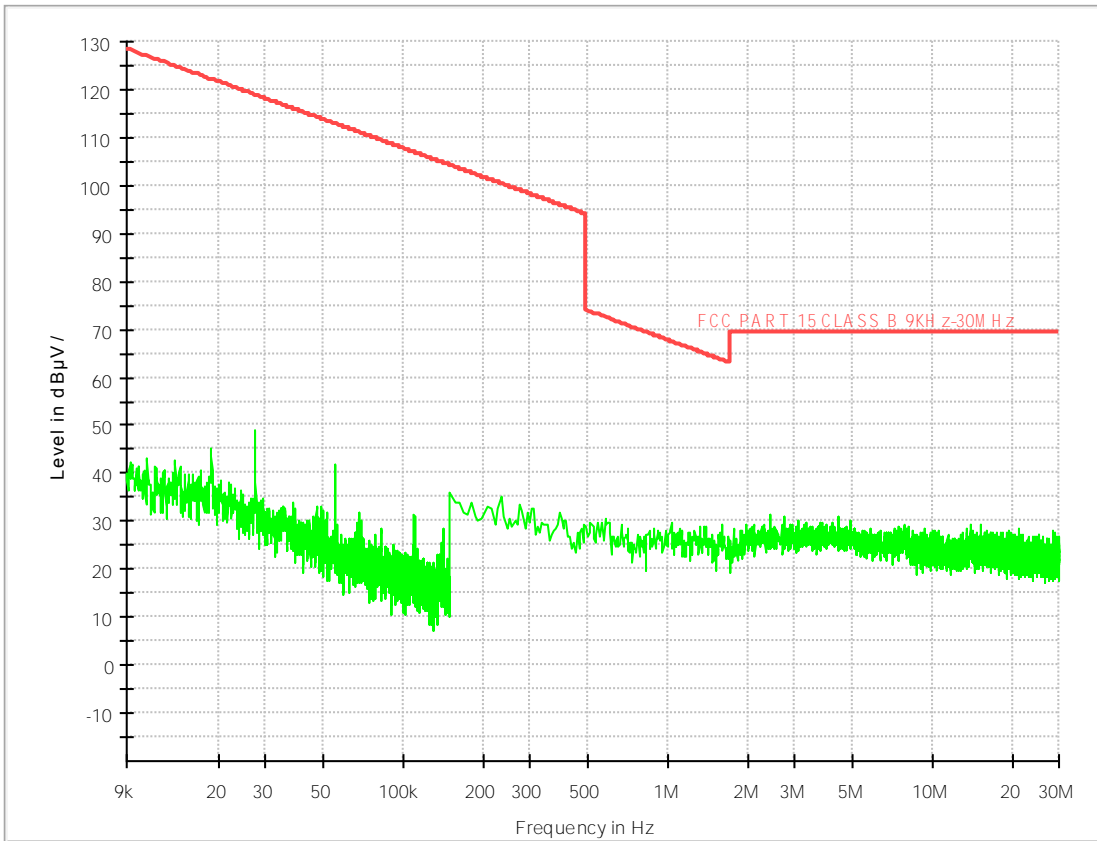
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

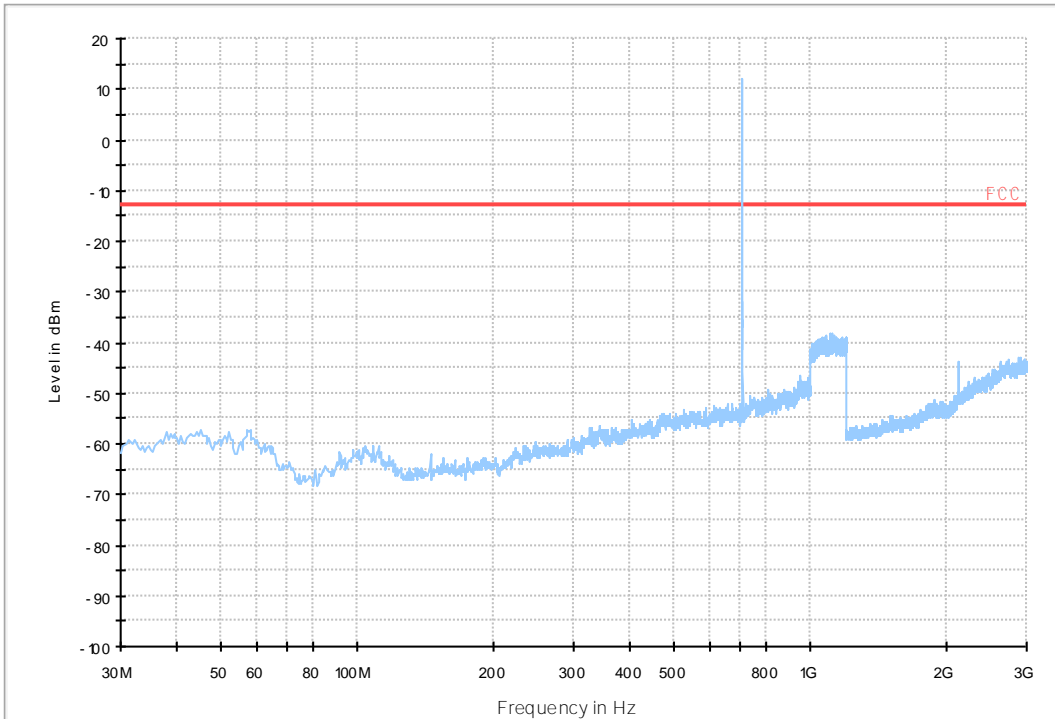
7.1 For LTE

7.1.1 Test Band = BAND12_ANT1

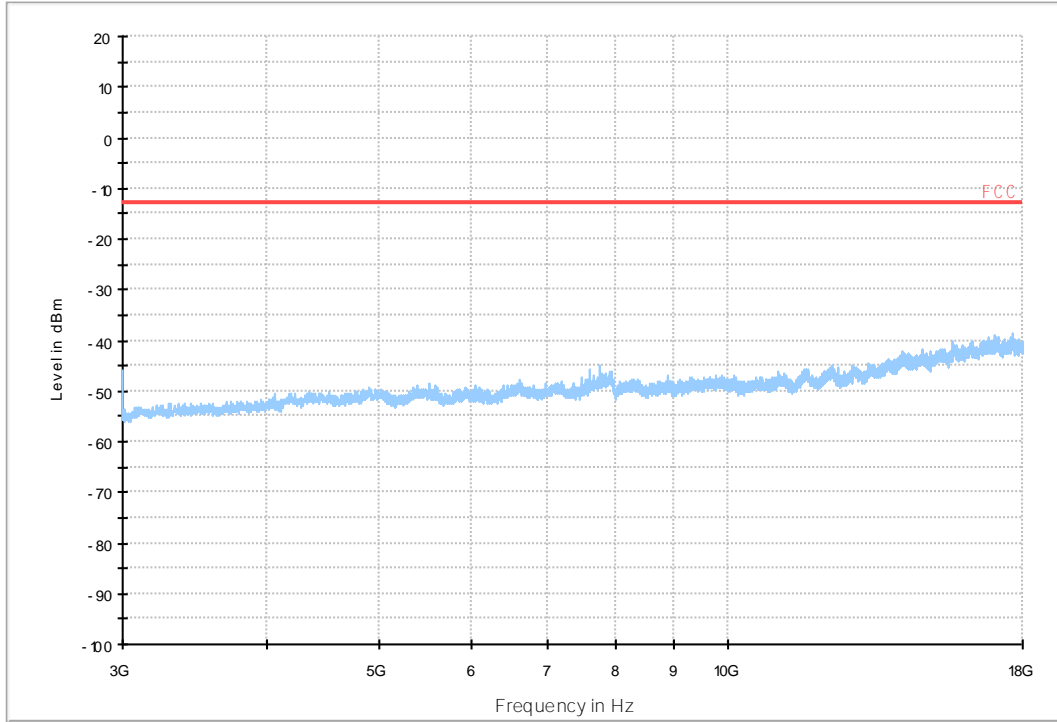
7.1.1.1 Test Bandwidth = 1.4



LTE FDD RSE-TX-DIRECTOR BELOW 1G_L

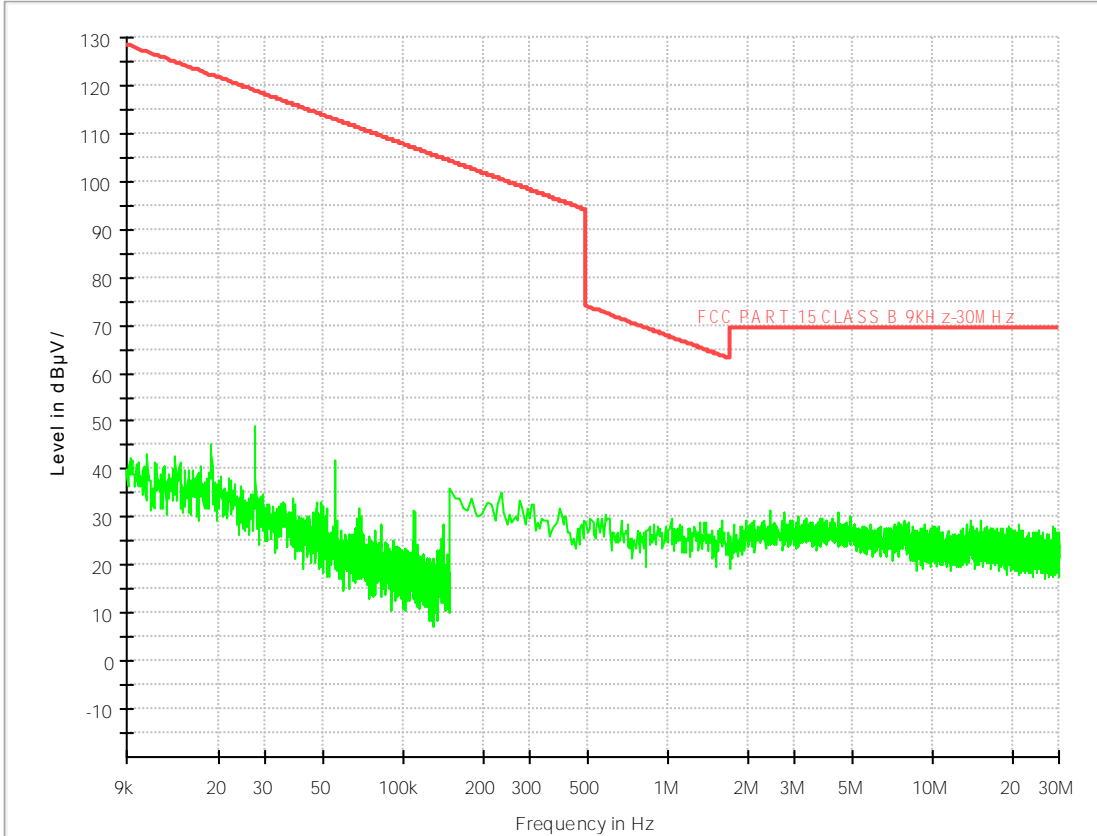


LTE FDD RSE-TX-DIRECTOR BELOW 1G_H

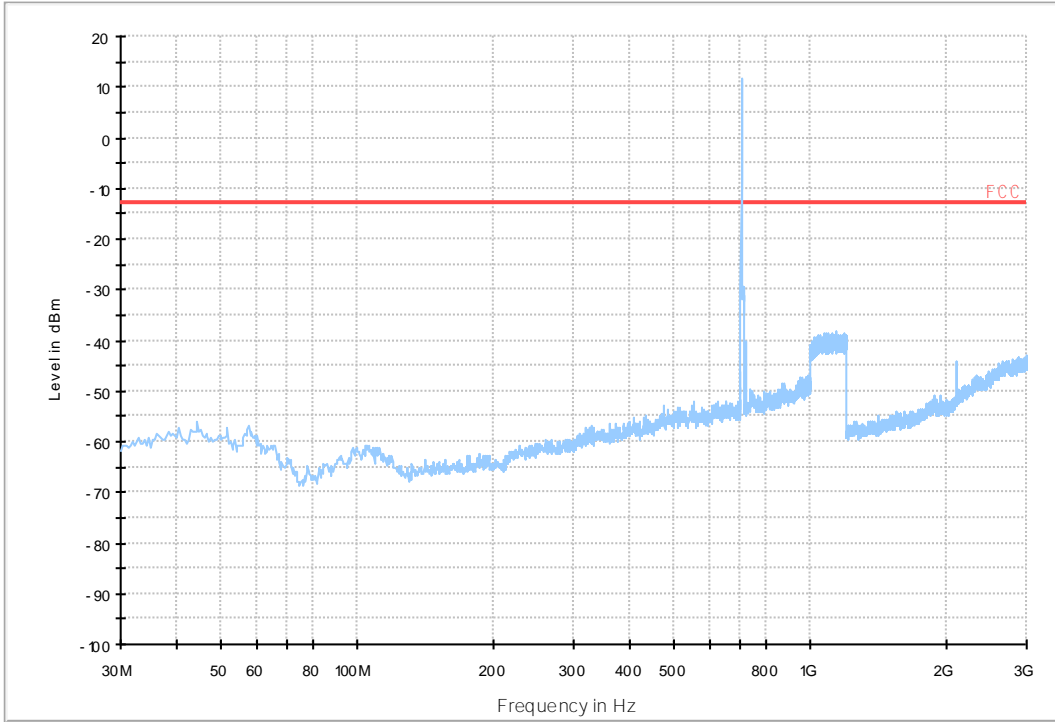




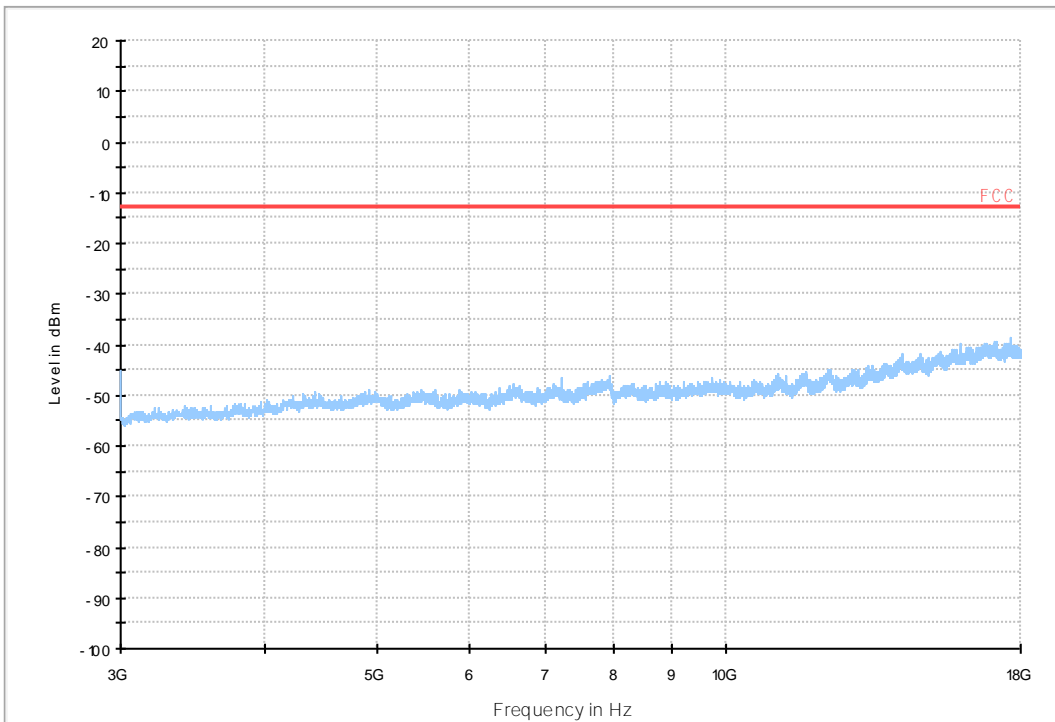
7.1.1.2 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G_L

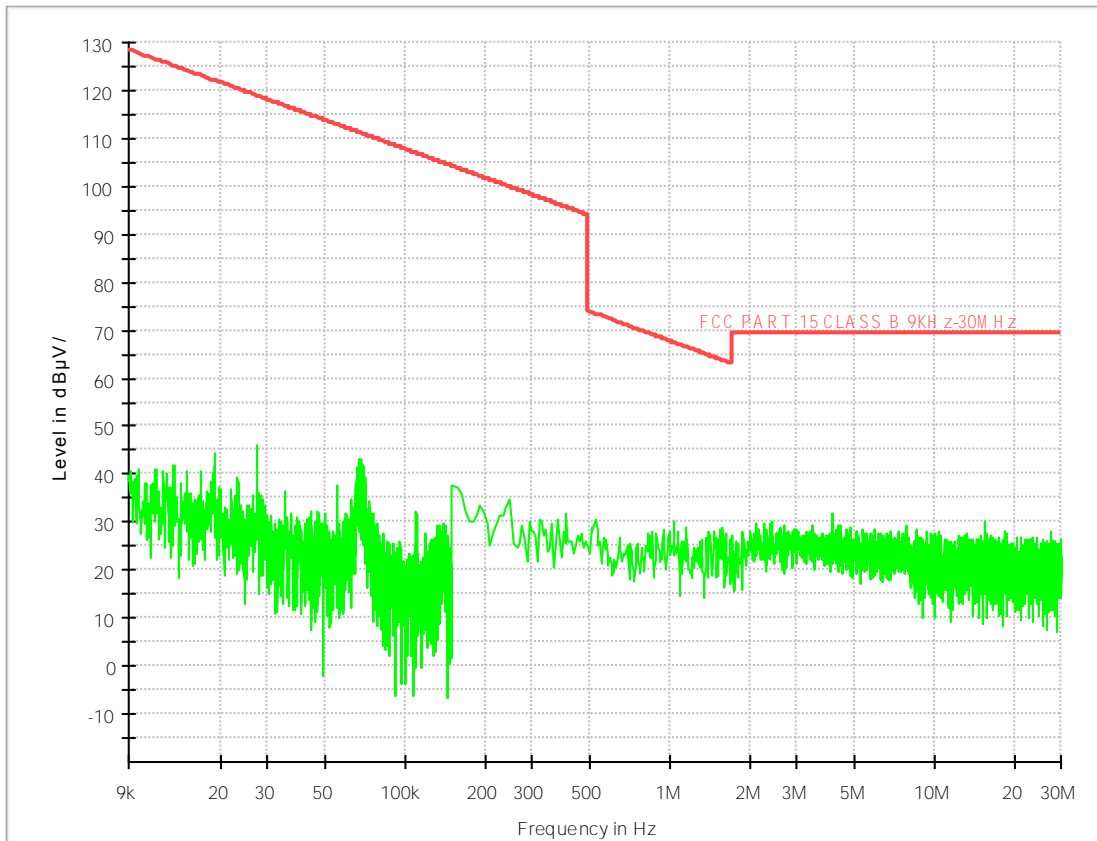


LTE FDD RSE-TX-DIRECTOR BELOW 1G_H

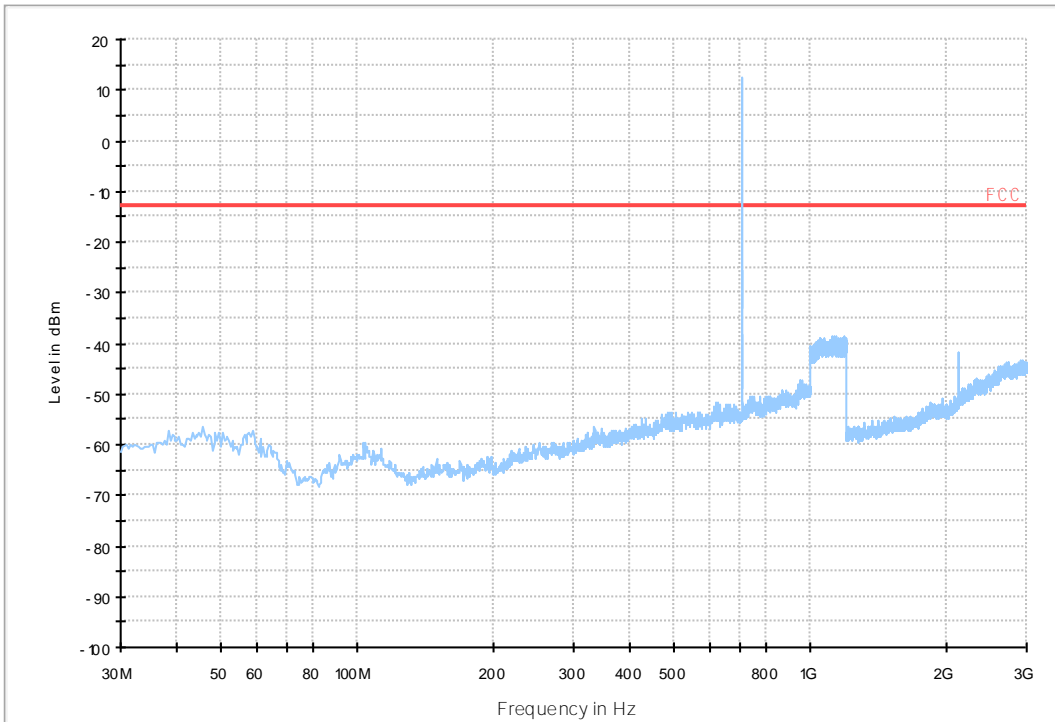


7.1.2 Test Band = BAND12_ANT2

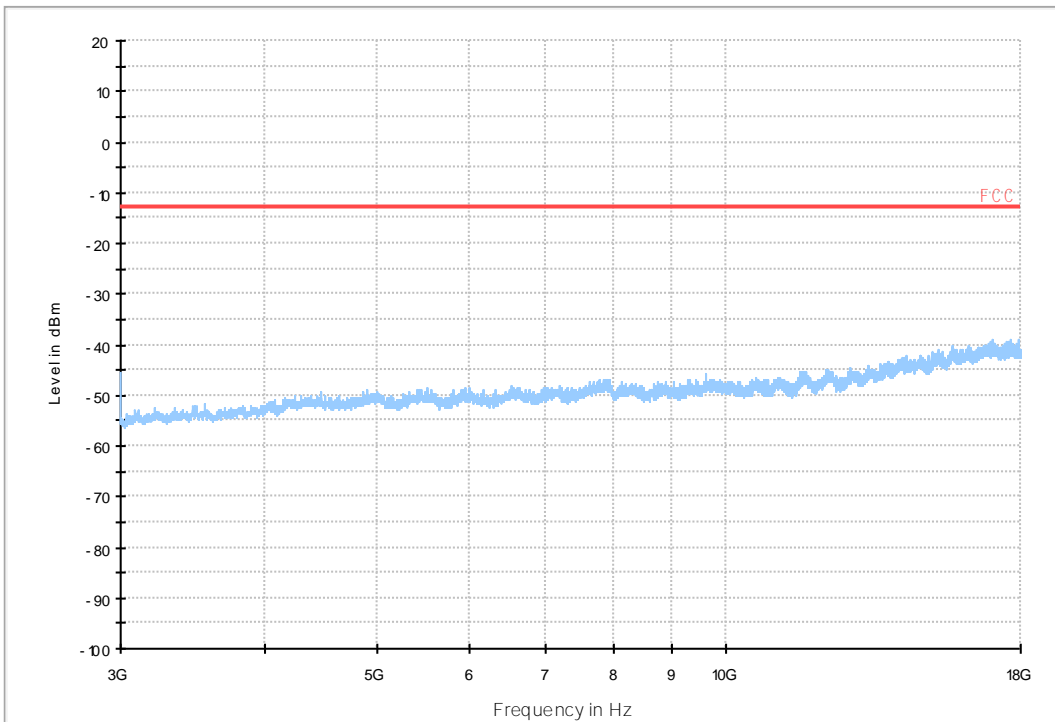
7.1.2.1 Test Bandwidth = 1.4



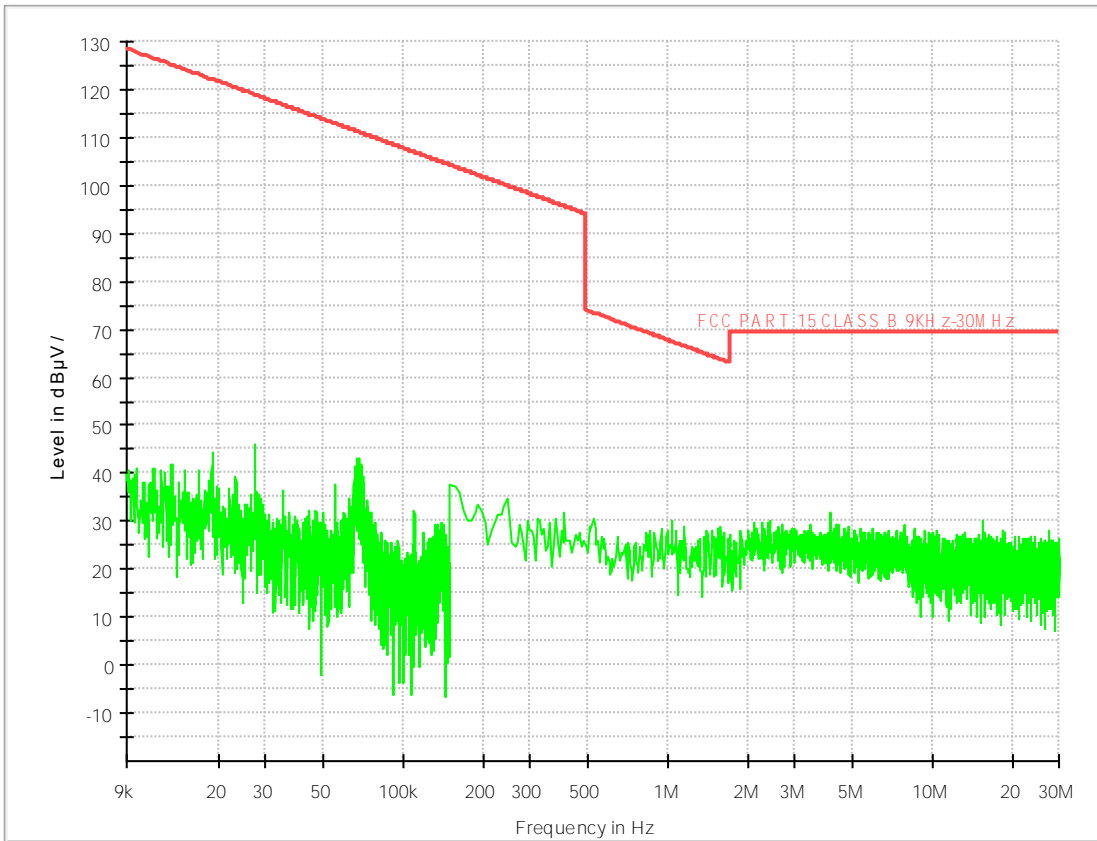
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



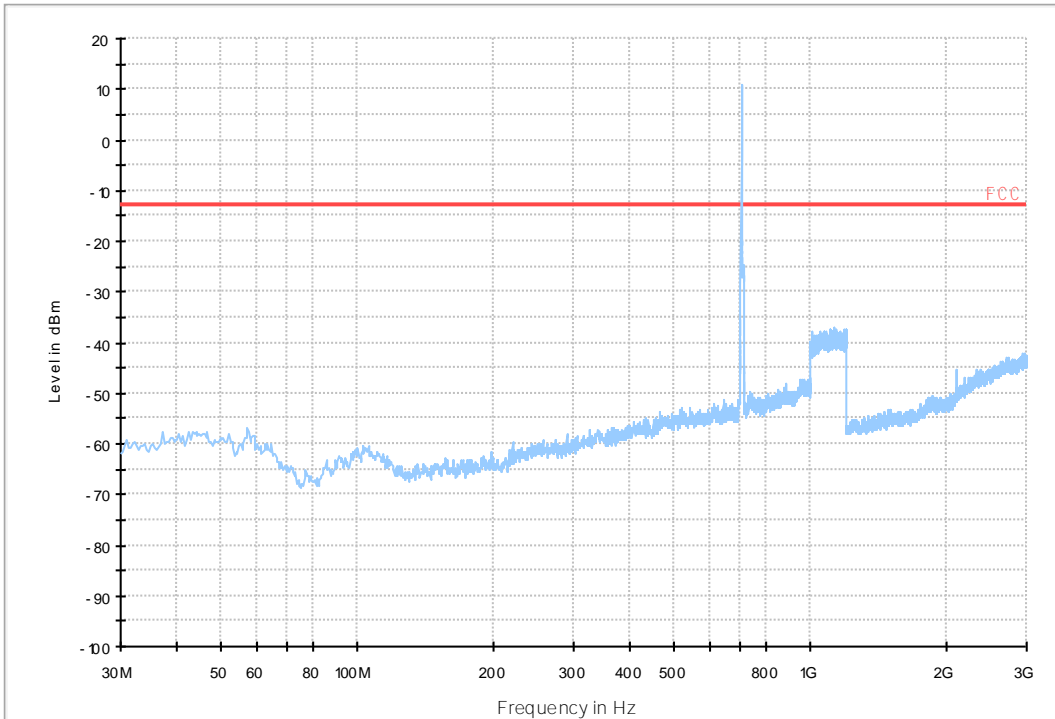
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



7.1.2.2 Test Bandwidth = 10

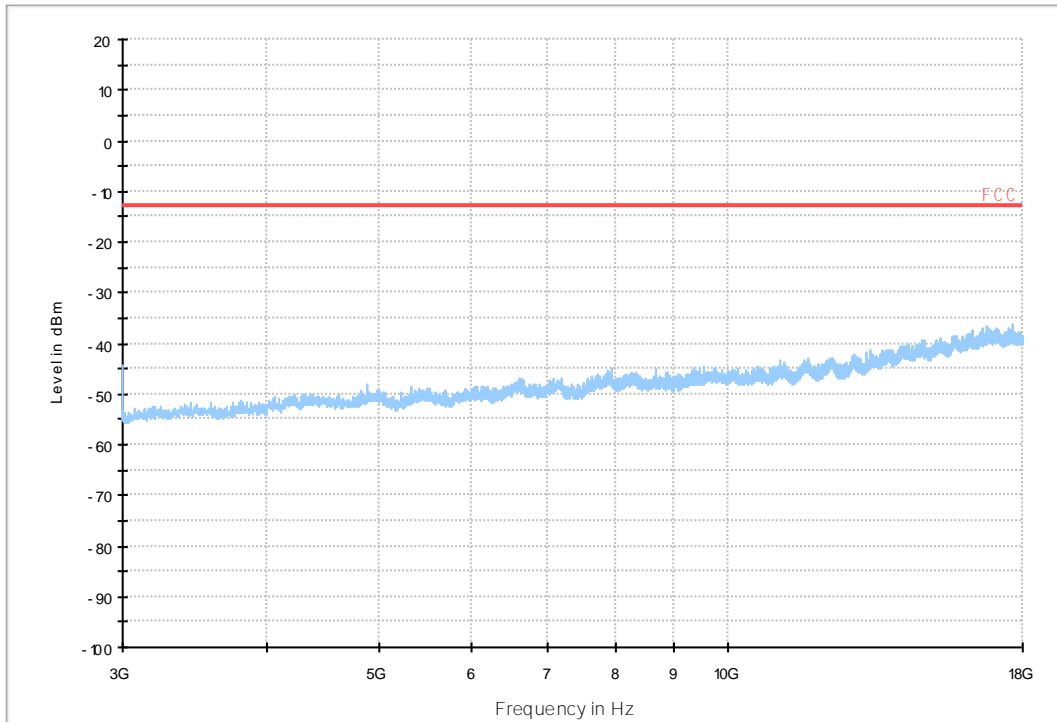


Copy of RSE-TX-DIRECTOR BELOW 1G_L





Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND12	LTE/TM1	1.4	LCH	TN	VL	7.50	0.01072	PASS
					VN	8.04	0.01149	PASS
					VH	7.18	0.01026	PASS
			MCH	TN	VL	3.69	0.00522	PASS
					VN	3.28	0.00464	PASS
					VH	-9.98	-0.01411	PASS
			HCH	TN	VL	0.07	0.0001	PASS
					VN	-8.75	-0.01223	PASS
					VH	-1.76	-0.00246	PASS
		3	LCH	TN	VL	2.30	0.00328	PASS
					VN	-4.13	-0.0059	PASS
					VH	4.05	0.00578	PASS
			MCH	TN	VL	5.92	0.00837	PASS
					VN	-8.91	-0.01259	PASS
					VH	6.04	0.00854	PASS
			HCH	TN	VL	7.88	0.01103	PASS
					VN	-3.05	-0.00427	PASS
					VH	-1.24	-0.00174	PASS
		5	LCH	TN	VL	1.73	0.00247	PASS
					VN	5.06	0.00721	PASS
					VH	3.71	0.00529	PASS
			MCH	TN	VL	1.42	0.00201	PASS
					VN	-0.60	-0.00085	PASS
					VH	-1.39	-0.00196	PASS
			HCH	TN	VL	-4.02	-0.00563	PASS
					VN	-0.80	-0.00112	PASS
					VH	3.09	0.00433	PASS
		10	LCH	TN	VL	3.49	0.00496	PASS
					VN	2.85	0.00405	PASS
					VH	-1.23	-0.00175	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
			MCH	TN	VL	2.47	0.00349	PASS	
					VN	-0.51	-0.00072	PASS	
					VH	0.50	0.00071	PASS	
			HCH	TN	VL	-2.76	-0.00388	PASS	
					VN	-1.33	-0.00187	PASS	
					VH	0.54	0.00076	PASS	
		LTE/TM2	1.4	LCH	TN	VL	-1.89	-0.0027	PASS
						VN	3.79	0.00542	PASS
						VH	-3.36	-0.0048	PASS
				MCH	TN	VL	-0.49	-0.00069	PASS
						VN	10.84	0.01532	PASS
						VH	-5.16	-0.00729	PASS
	HCH		TN	VL	2.19	0.00306	PASS		
				VN	-8.77	-0.01226	PASS		
				VH	-9.78	-0.01367	PASS		
	3		LCH	TN	VL	2.05	0.00293	PASS	
					VN	7.47	0.01066	PASS	
					VH	-0.69	-0.00099	PASS	
			MCH	TN	VL	-1.24	-0.00175	PASS	
					VN	-2.05	-0.0029	PASS	
					VH	-6.81	-0.00963	PASS	
	HCH		TN	VL	0.80	0.00112	PASS		
				VN	6.95	0.00973	PASS		
				VH	3.75	0.00525	PASS		
	5	LCH	TN	VL	-6.51	-0.00928	PASS		
				VN	-3.92	-0.00559	PASS		
				VH	-1.12	-0.0016	PASS		
		MCH	TN	VL	-0.23	-0.00033	PASS		
				VN	2.56	0.00362	PASS		
				VH	-5.12	-0.00724	PASS		
	HCH	TN	VL	-3.76	-0.00527	PASS			
			VN	2.00	0.0028	PASS			
			VH	2.99	0.00419	PASS			
	10	LCH	TN	VL	0.30	0.00043	PASS		
				VN	-1.36	-0.00193	PASS		
				VH	2.78	0.00395	PASS		
		MCH	TN	VL	0.72	0.00102	PASS		
						VN	-0.76	-0.00107	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	1.93	0.00273	PASS
			HCH	TN	VL	-1.10	-0.00155	PASS
					VN	0.24	0.00034	PASS
					VH	-1.14	-0.0016	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
BAND12	LTE/TM1	1.4	LCH	VN	-30	6.98	0.00998	PASS
					-20	4.88	0.00697	PASS
					-10	-2.37	-0.00339	PASS
					0	-3.23	-0.00462	PASS
					10	11.50	0.01644	PASS
					20	14.45	0.02065	PASS
					30	-3.82	-0.00546	PASS
					40	-6.11	-0.00873	PASS
			50	9.50	0.01358	PASS		
			MCH	VN	-30	-3.36	-0.00475	PASS
					-20	-8.41	-0.01189	PASS
					-10	-11.06	-0.01563	PASS
					0	-0.27	-0.00038	PASS
					10	10.83	0.01531	PASS
					20	-5.69	-0.00804	PASS
					30	5.32	0.00752	PASS
					40	-4.76	-0.00673	PASS
			HCH	VN	-30	15.89	0.02221	PASS
					-20	8.75	0.01223	PASS
					-10	5.41	0.00756	PASS
					0	8.27	0.01156	PASS
					10	-4.59	-0.00642	PASS
					20	8.71	0.01218	PASS
					30	7.51	0.0105	PASS
		40			4.73	0.00661	PASS	
		50	-4.78	-0.00668	PASS			
		3	LCH	VN	-30	7.18	0.01025	PASS
					-20	0.76	0.00108	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	-0.00134	PASS	
					0	-0.14	-0.0002	PASS	
					10	-2.15	-0.00307	PASS	
					20	2.12	0.00303	PASS	
					30	1.72	0.00246	PASS	
					40	-4.73	-0.00675	PASS	
					50	1.95	0.00278	PASS	
			MCH	VN	-30	-2.55	-0.0036	PASS	
					-20	1.79	0.00253	PASS	
					-10	4.84	0.00684	PASS	
					0	-1.80	-0.00254	PASS	
					10	-8.81	-0.01245	PASS	
					20	6.65	0.0094	PASS	
					30	5.09	0.00719	PASS	
			HCH	VN	-30	-1.34	-0.00188	PASS	
					-20	1.95	0.00273	PASS	
					-10	1.10	0.00154	PASS	
					0	-2.79	-0.0039	PASS	
					10	0.11	0.00015	PASS	
					20	7.22	0.0101	PASS	
					30	-4.96	-0.00694	PASS	
			5	LCH	VN	-30	0.07	0.0001	PASS
						-20	-2.09	-0.00298	PASS
						-10	0.44	0.00063	PASS
						0	-2.82	-0.00402	PASS
						10	-2.29	-0.00326	PASS
						20	-0.77	-0.0011	PASS
						30	2.78	0.00396	PASS
						40	1.85	0.00264	PASS
			MCH	VN	-30	-2.22	-0.00314	PASS	
					-20	-2.27	-0.00321	PASS	
					-10	2.57	0.00363	PASS	
					0	-0.67	-0.00095	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-0.63	-0.00089	PASS		
					20	-1.39	-0.00196	PASS		
					30	-0.27	-0.00038	PASS		
					40	-0.34	-0.00048	PASS		
					50	-1.07	-0.00151	PASS		
			HCH	VN	-30	-4.48	-0.00628	PASS		
					-20	1.09	0.00153	PASS		
					-10	-0.23	-0.00032	PASS		
					0	2.06	0.00289	PASS		
					10	1.03	0.00144	PASS		
					20	0.26	0.00036	PASS		
					30	-0.40	-0.00056	PASS		
					40	-0.21	-0.00029	PASS		
					50	-3.00	-0.0042	PASS		
					LCH	VN	-30	-0.62	-0.00088	PASS
			-20	-0.41			-0.00058	PASS		
			-10	-1.19			-0.00169	PASS		
			0	0.64			0.00091	PASS		
			10	1.79			0.00254	PASS		
			20	-0.03			-0.00004	PASS		
		30	1.09	0.00155			PASS			
		40	0.69	0.00098			PASS			
		50	-1.06	-0.00151			PASS			
		MCH	VN	-30			-1.93	-0.00273	PASS	
				-20	1.77	0.0025	PASS			
				-10	-2.27	-0.00321	PASS			
				0	-3.72	-0.00526	PASS			
				10	0.20	0.00028	PASS			
				20	-0.13	-0.00018	PASS			
				30	-2.39	-0.00338	PASS			
				40	0.64	0.0009	PASS			
				50	-2.13	-0.00301	PASS			
				HCH	VN	-30	2.88	0.00405	PASS	
		-20	2.88			0.00405	PASS			
		-10	-0.44			-0.00062	PASS			
		0	-1.13			-0.00159	PASS			
		10	-3.53			-0.00496	PASS			
		20	3.03			0.00426	PASS			
				10			-30	-0.62	-0.00088	PASS
							-20	-0.41	-0.00058	PASS
-10	-1.19						-0.00169	PASS		
0	0.64						0.00091	PASS		
10	1.79						0.00254	PASS		
LCH	VN				20	-0.03	-0.00004	PASS		
					30	1.09	0.00155	PASS		
					40	0.69	0.00098	PASS		
					50	-1.06	-0.00151	PASS		
					-30	-1.93	-0.00273	PASS		
		-20	1.77		0.0025	PASS				
		-10	-2.27		-0.00321	PASS				
		0	-3.72		-0.00526	PASS				
		10	0.20		0.00028	PASS				
		20	-0.13		-0.00018	PASS				
HCH	VN	30	-2.39		-0.00338	PASS				
		40	0.64		0.0009	PASS				
		50	-2.13		-0.00301	PASS				
		-30	2.88		0.00405	PASS				
		-20	2.88		0.00405	PASS				
		-10	-0.44	-0.00062	PASS					



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4			30	1.13	0.00159	PASS
					40	-1.83	-0.00257	PASS
					50	0.56	0.00079	PASS
			LCH	VN	-30	10.34	0.01478	PASS
					-20	9.01	0.01288	PASS
					-10	-3.12	-0.00446	PASS
					0	2.72	0.00389	PASS
					10	8.90	0.01272	PASS
					20	-2.99	-0.00427	PASS
					30	22.73	0.03249	PASS
					40	1.80	0.00257	PASS
					50	-2.60	-0.00372	PASS
		MCH	VN	-30	4.73	0.00669	PASS	
				-20	4.78	0.00676	PASS	
				-10	-2.45	-0.00346	PASS	
				0	8.47	0.01197	PASS	
				10	-1.54	-0.00218	PASS	
				20	-5.29	-0.00748	PASS	
				30	5.34	0.00755	PASS	
				40	-6.01	-0.00849	PASS	
				50	-13.95	-0.01972	PASS	
		HCH	VN	-30	-4.96	-0.00693	PASS	
				-20	-4.46	-0.00624	PASS	
				-10	-8.31	-0.01162	PASS	
				0	0.53	0.00074	PASS	
				10	-7.87	-0.011	PASS	
				20	3.62	0.00506	PASS	
				30	2.00	0.0028	PASS	
				40	-12.53	-0.01752	PASS	
				50	4.95	0.00692	PASS	
		3	LCH	VN	-30	2.75	0.00393	PASS
-20	-6.51				-0.00929	PASS		
-10	-0.31				-0.00044	PASS		
0	-0.27				-0.00039	PASS		
10	6.62				0.00945	PASS		
20	4.15				0.00592	PASS		
30	0.93				0.00133	PASS		
40	3.52				0.00502	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	50	-0.60	-0.00086	PASS
					-30	-2.80	-0.00396	PASS
					-20	-0.19	-0.00027	PASS
					-10	0.60	0.00085	PASS
					0	-3.72	-0.00526	PASS
					10	1.44	0.00204	PASS
					20	-0.37	-0.00052	PASS
					30	2.83	0.004	PASS
					40	5.92	0.00837	PASS
			50	4.33	0.00612	PASS		
			HCH	VN	-30	2.82	0.00395	PASS
					-20	-0.01	-0.00001	PASS
					-10	-3.98	-0.00557	PASS
					0	1.93	0.0027	PASS
					10	3.92	0.00549	PASS
					20	-0.62	-0.00087	PASS
					30	-5.97	-0.00836	PASS
					40	-8.91	-0.01247	PASS
		50			4.16	0.00582	PASS	
		5	LCH	VN	-30	2.17	0.00309	PASS
					-20	1.32	0.00188	PASS
					-10	8.05	0.01148	PASS
					0	-0.70	-0.001	PASS
					10	-1.23	-0.00175	PASS
					20	-1.12	-0.0016	PASS
					30	-4.13	-0.00589	PASS
					40	0.31	0.00044	PASS
					50	1.19	0.0017	PASS
			MCH	VN	-30	-5.01	-0.00708	PASS
					-20	-8.04	-0.01136	PASS
					-10	3.78	0.00534	PASS
					0	1.73	0.00245	PASS
					10	1.89	0.00267	PASS
					20	-0.10	-0.00014	PASS
					30	3.19	0.00451	PASS
40	-0.36				-0.00051	PASS		
50	-0.54	-0.00076	PASS					
HCH	VN	-30	3.35	0.0047	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	-1.56	-0.00219	PASS		
					-10	-2.32	-0.00325	PASS		
					0	1.85	0.00259	PASS		
					10	-0.94	-0.00132	PASS		
					20	-0.77	-0.00108	PASS		
					30	10.30	0.01444	PASS		
					40	3.29	0.00461	PASS		
					50	-2.46	-0.00345	PASS		
		10	LCH	VN	-30	5.48	0.00778	PASS		
					-20	-1.24	-0.00176	PASS		
					-10	0.74	0.00105	PASS		
					0	3.28	0.00466	PASS		
					10	1.24	0.00176	PASS		
					20	3.25	0.00462	PASS		
					30	3.30	0.00469	PASS		
					40	3.91	0.00555	PASS		
					50	1.02	0.00145	PASS		
					MCH	VN	-30	1.49	0.00211	PASS
							-20	0.63	0.00089	PASS
							-10	-1.56	-0.0022	PASS
		0	0.70	0.00099			PASS			
		10	-3.91	-0.00553			PASS			
		20	0.09	0.00013			PASS			
		30	1.65	0.00233			PASS			
		40	5.06	0.00715			PASS			
		HCH	VN	-30	-0.13	-0.00018	PASS			
				-20	-0.10	-0.00014	PASS			
				-10	-0.70	-0.00098	PASS			
				0	0.87	0.00122	PASS			
				10	-2.47	-0.00347	PASS			
20	-0.49			-0.00069	PASS					
30	-0.44			-0.00062	PASS					
40	-0.56			-0.00079	PASS					
50	-2.46	-0.00346	PASS							

END