

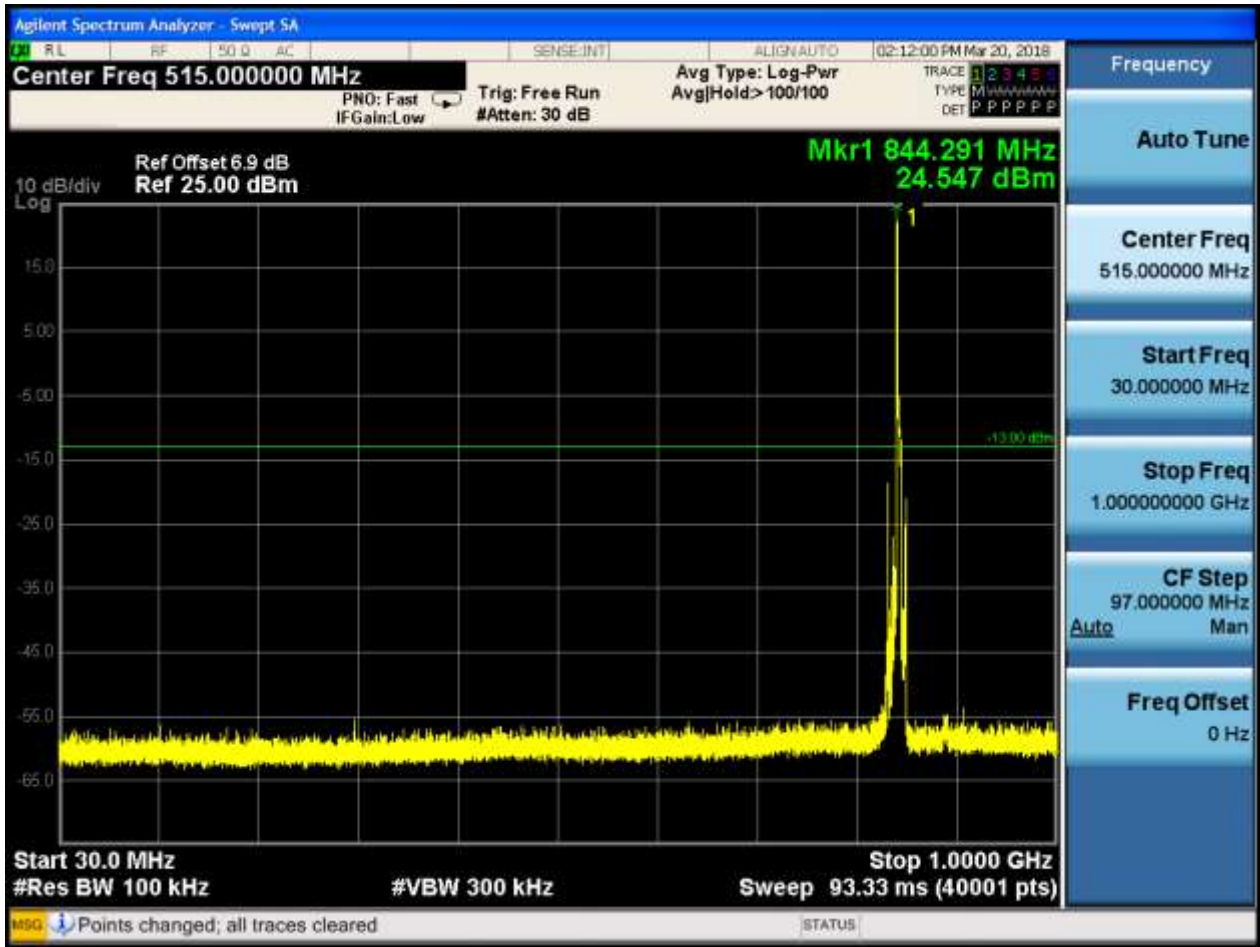


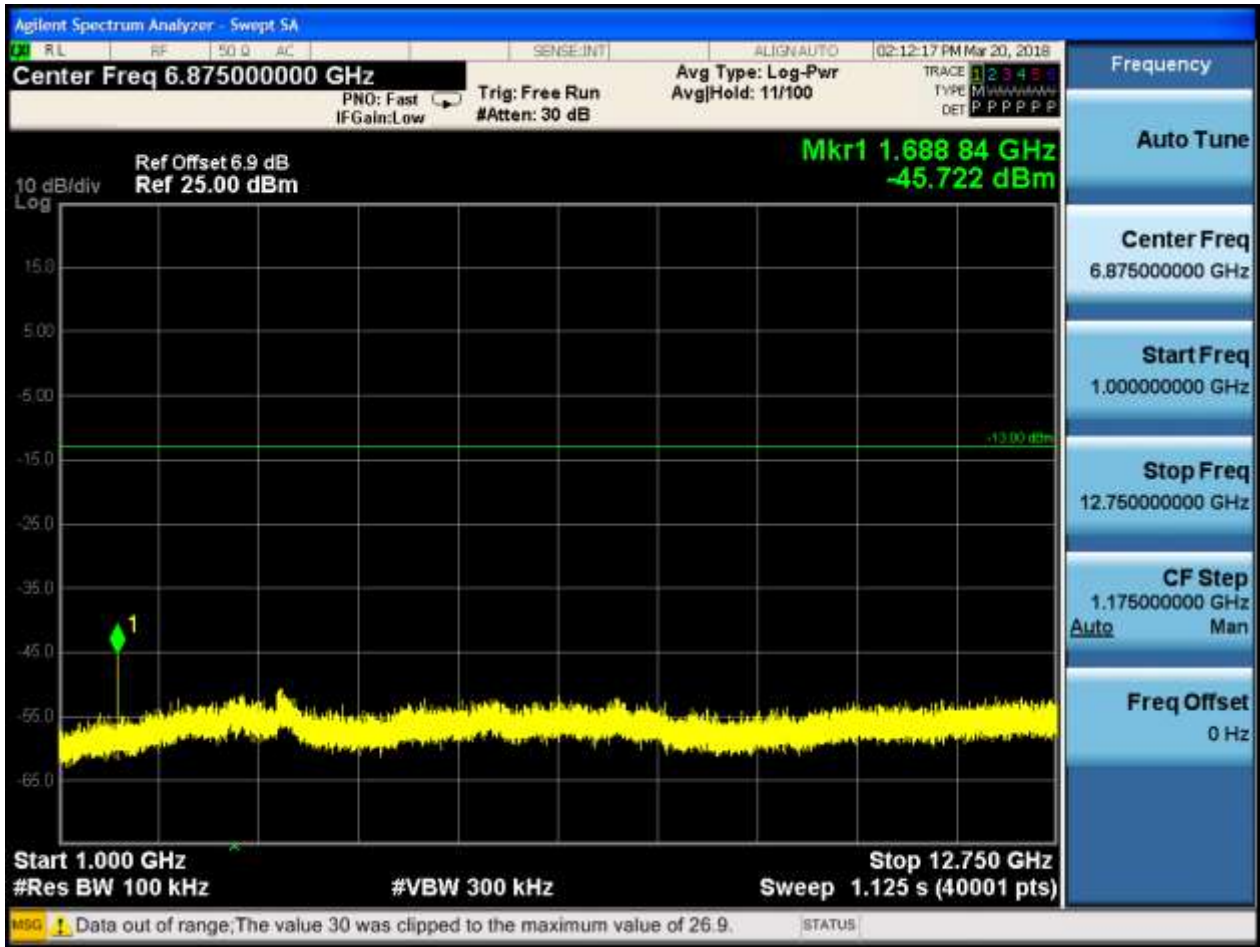
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0











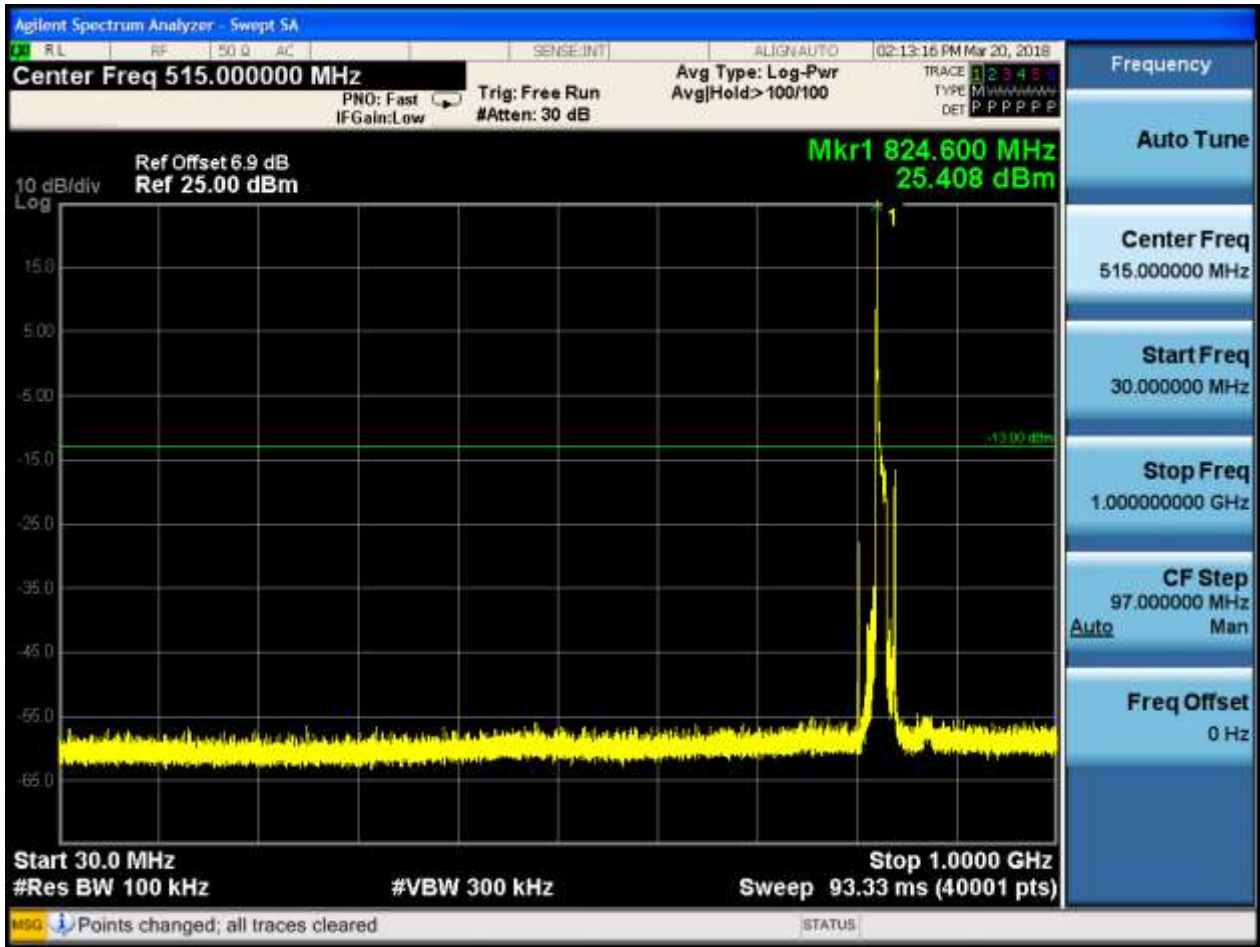
6.1.1.1.4 Test Bandwidth = 10

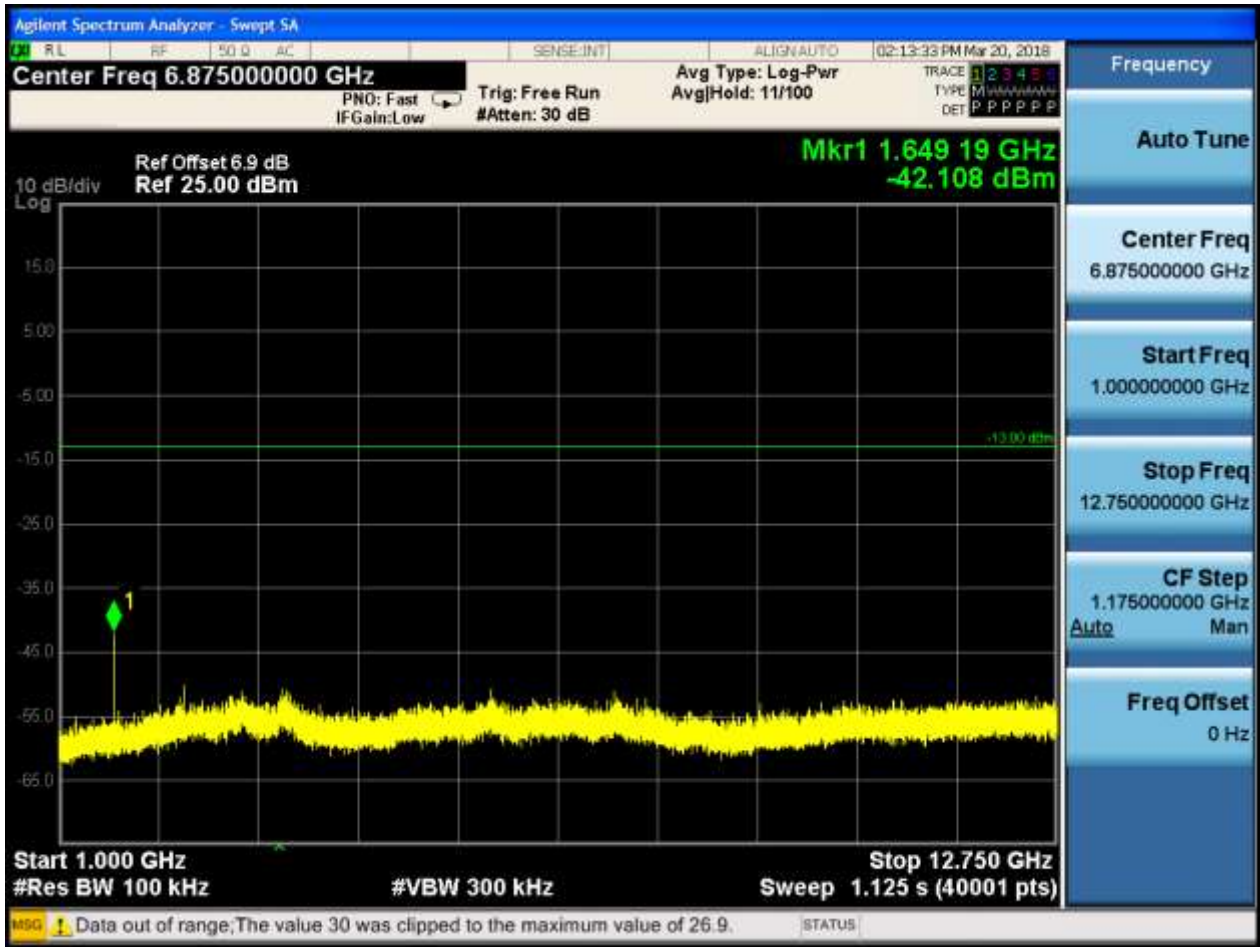
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





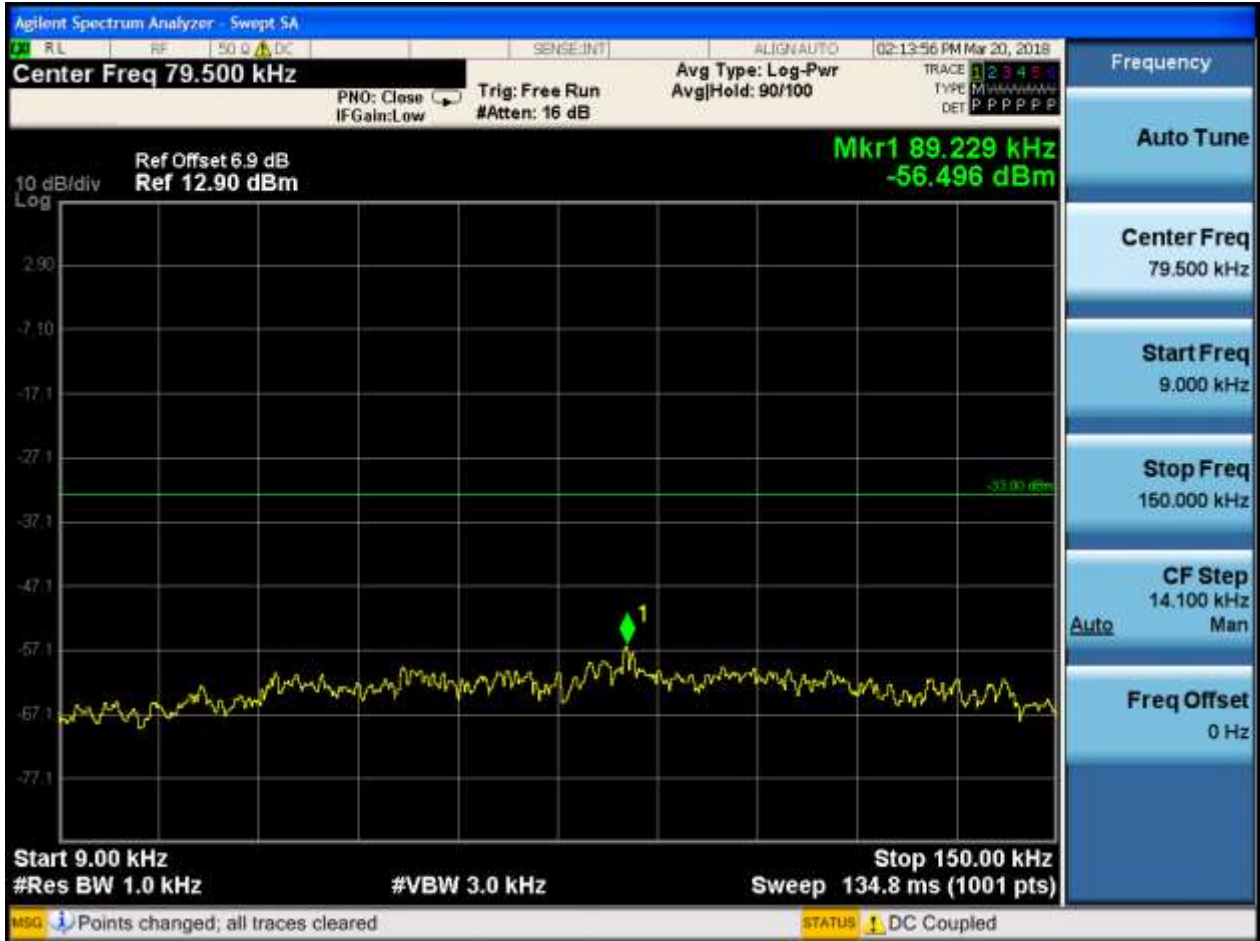




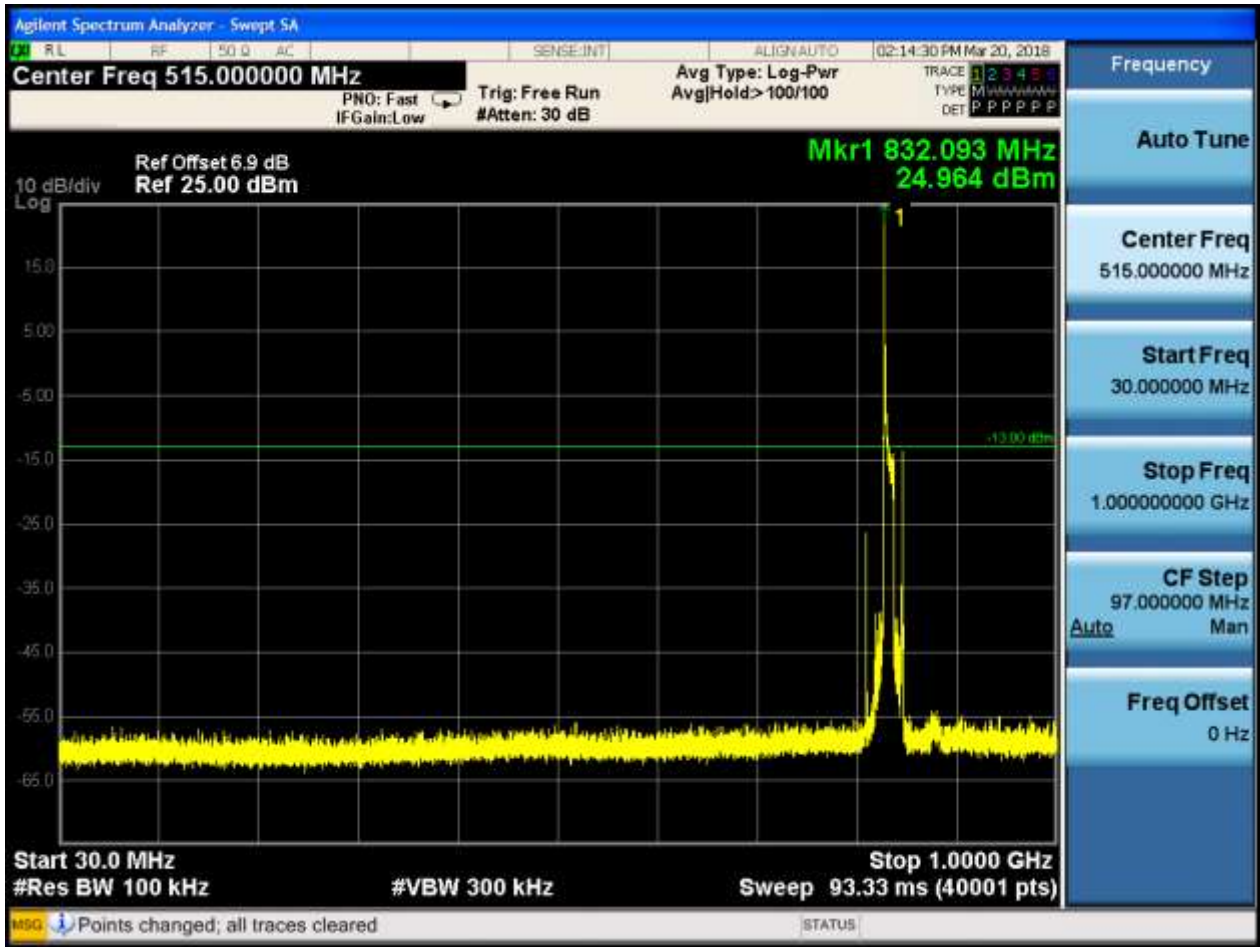


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0







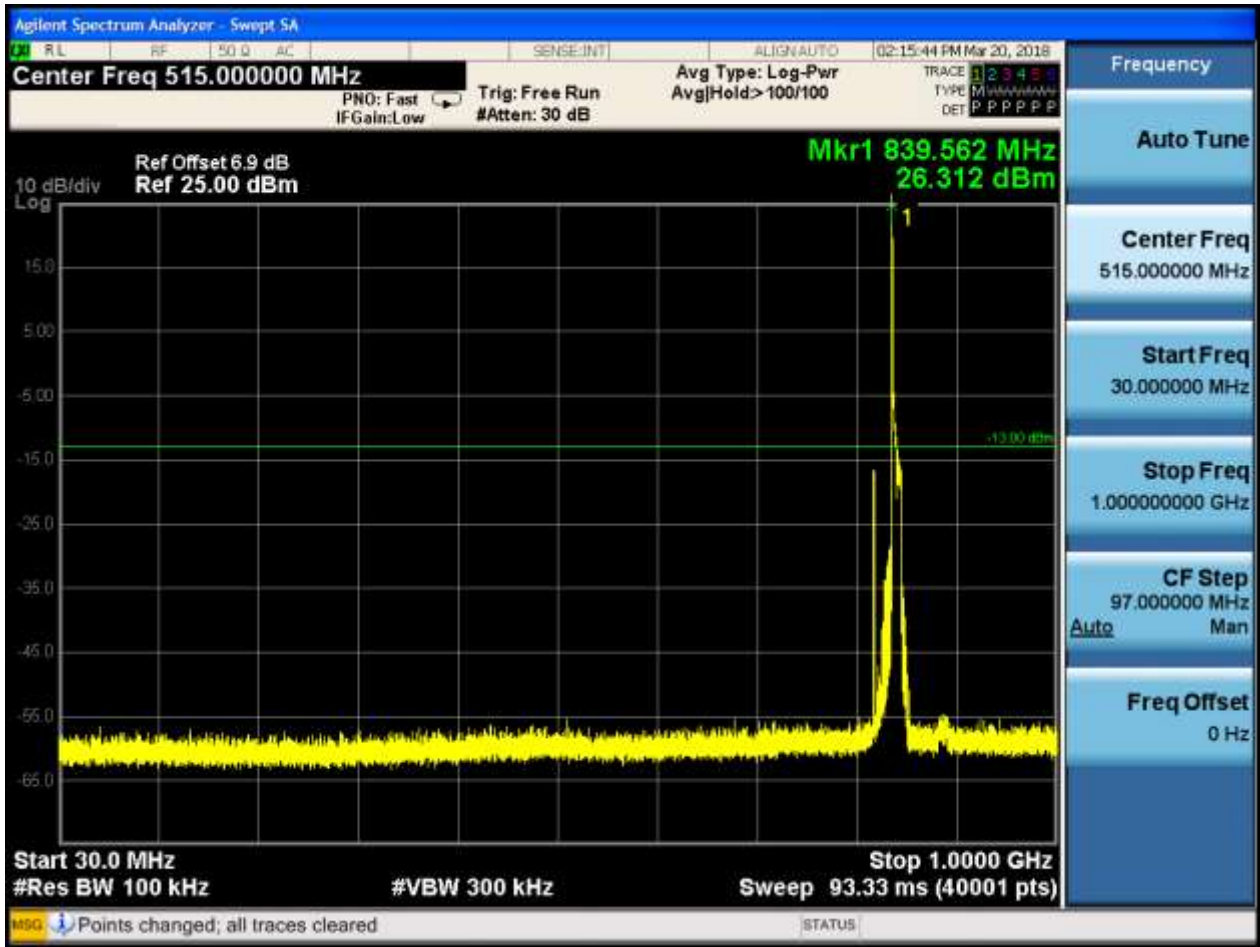


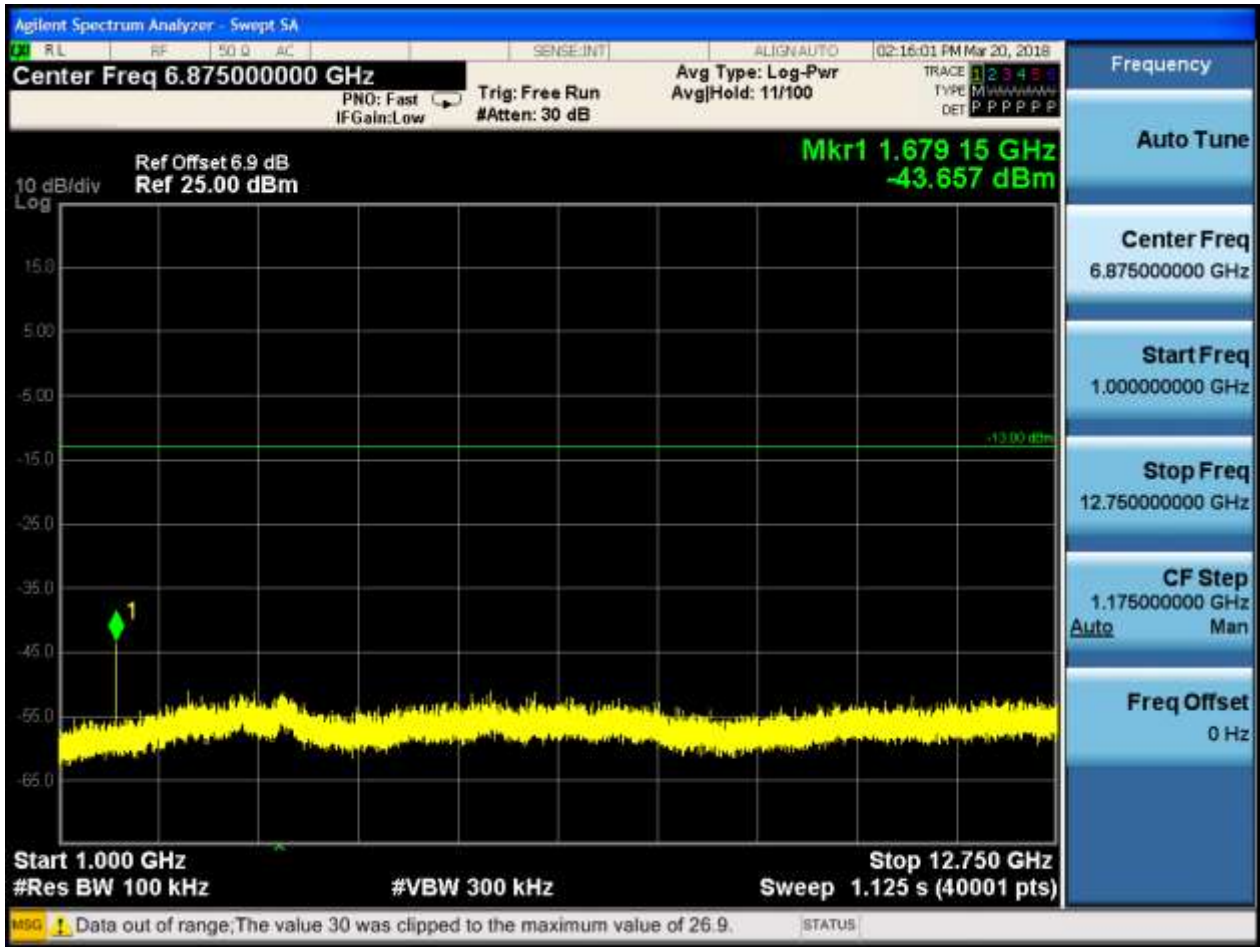
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0











6.1.1.2 Test Mode = LTE/TM2

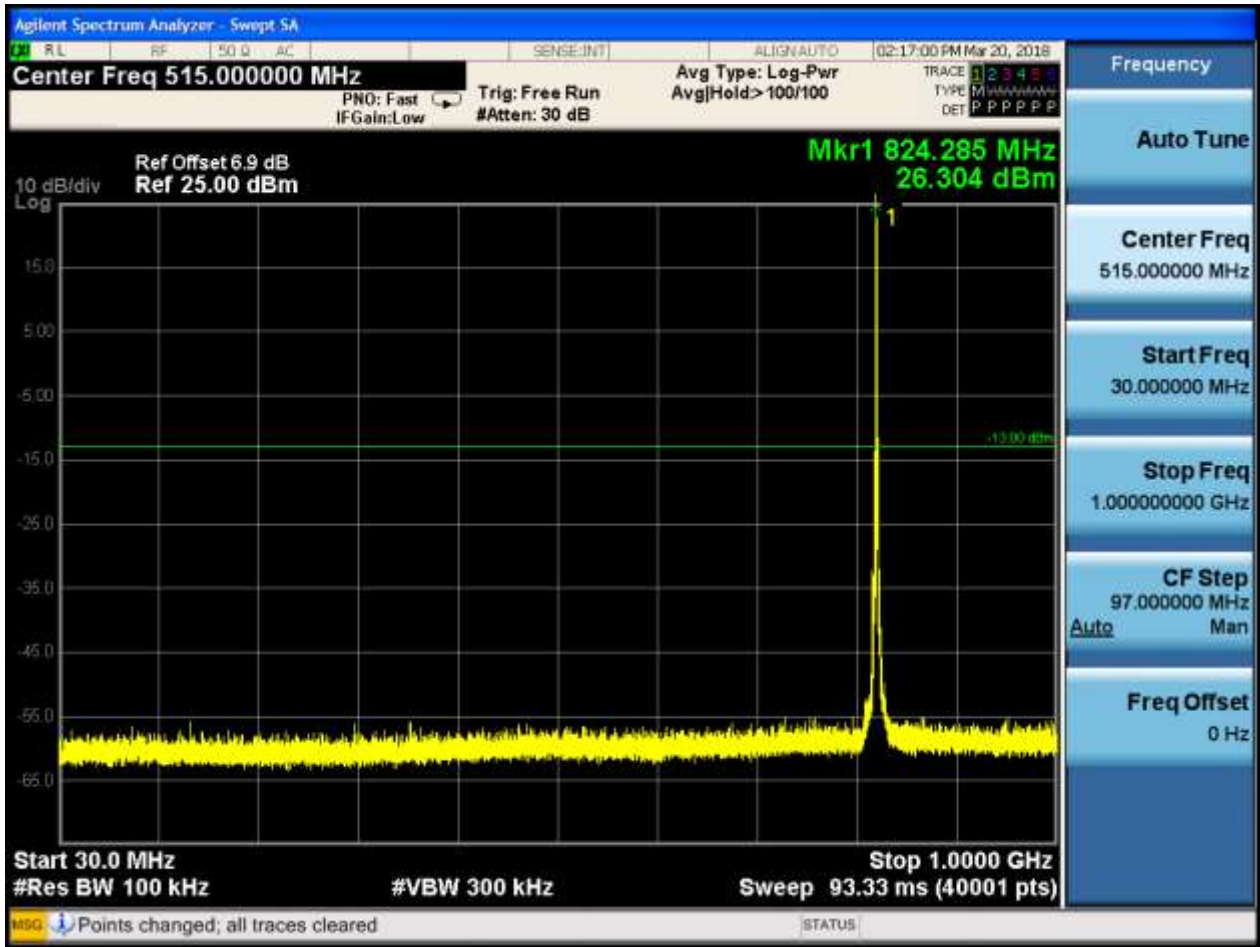
6.1.1.2.1 Test Bandwidth = 1.4

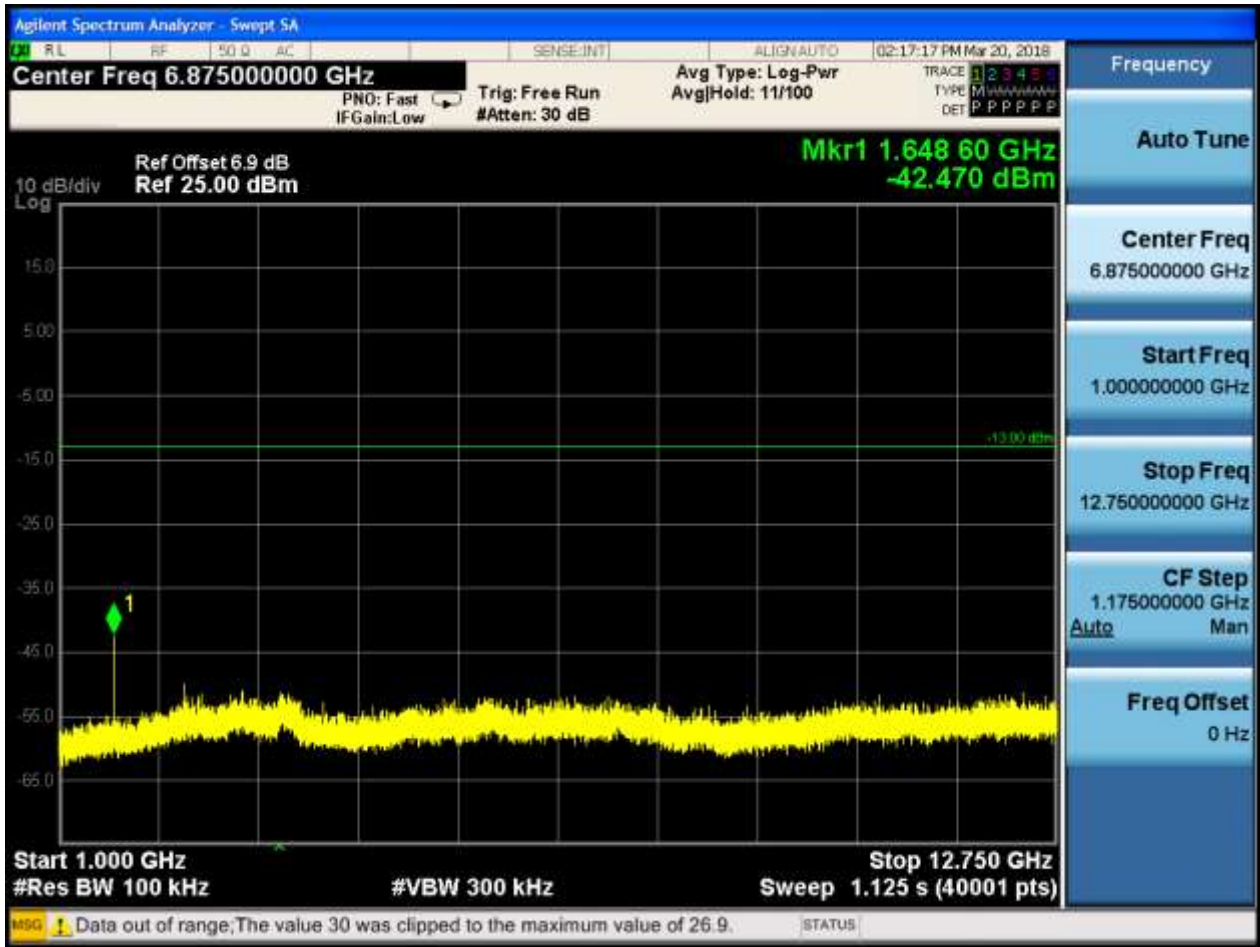
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



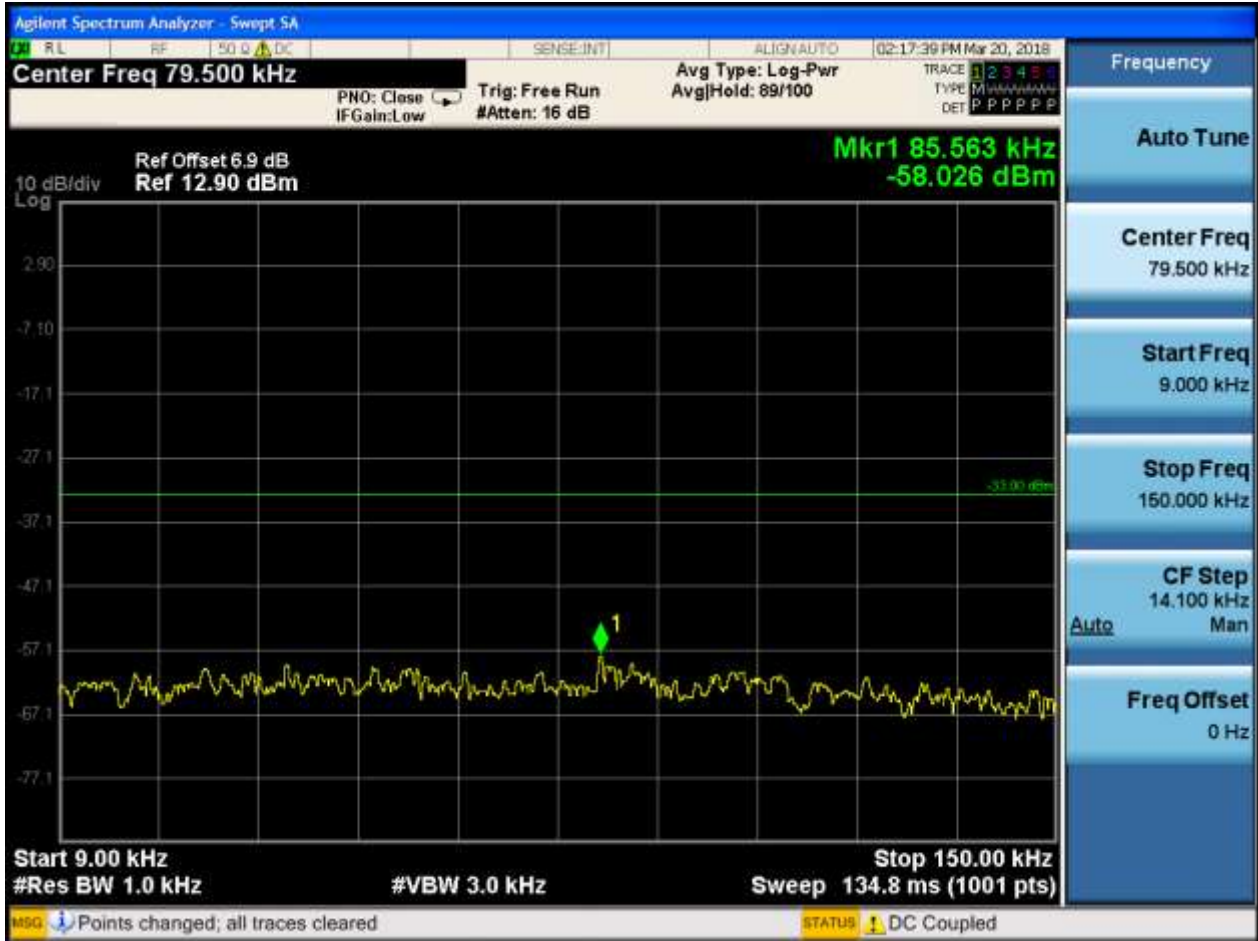




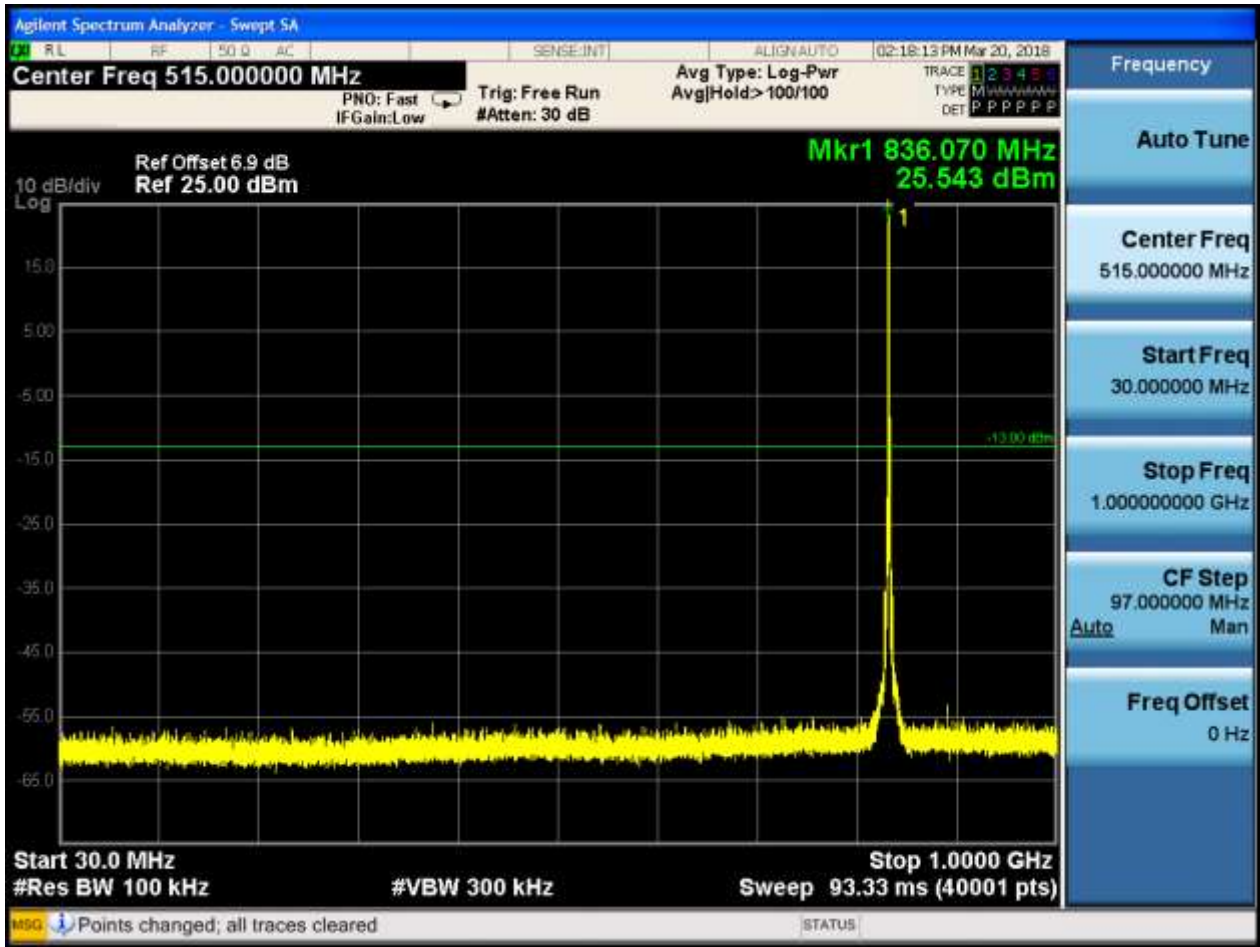


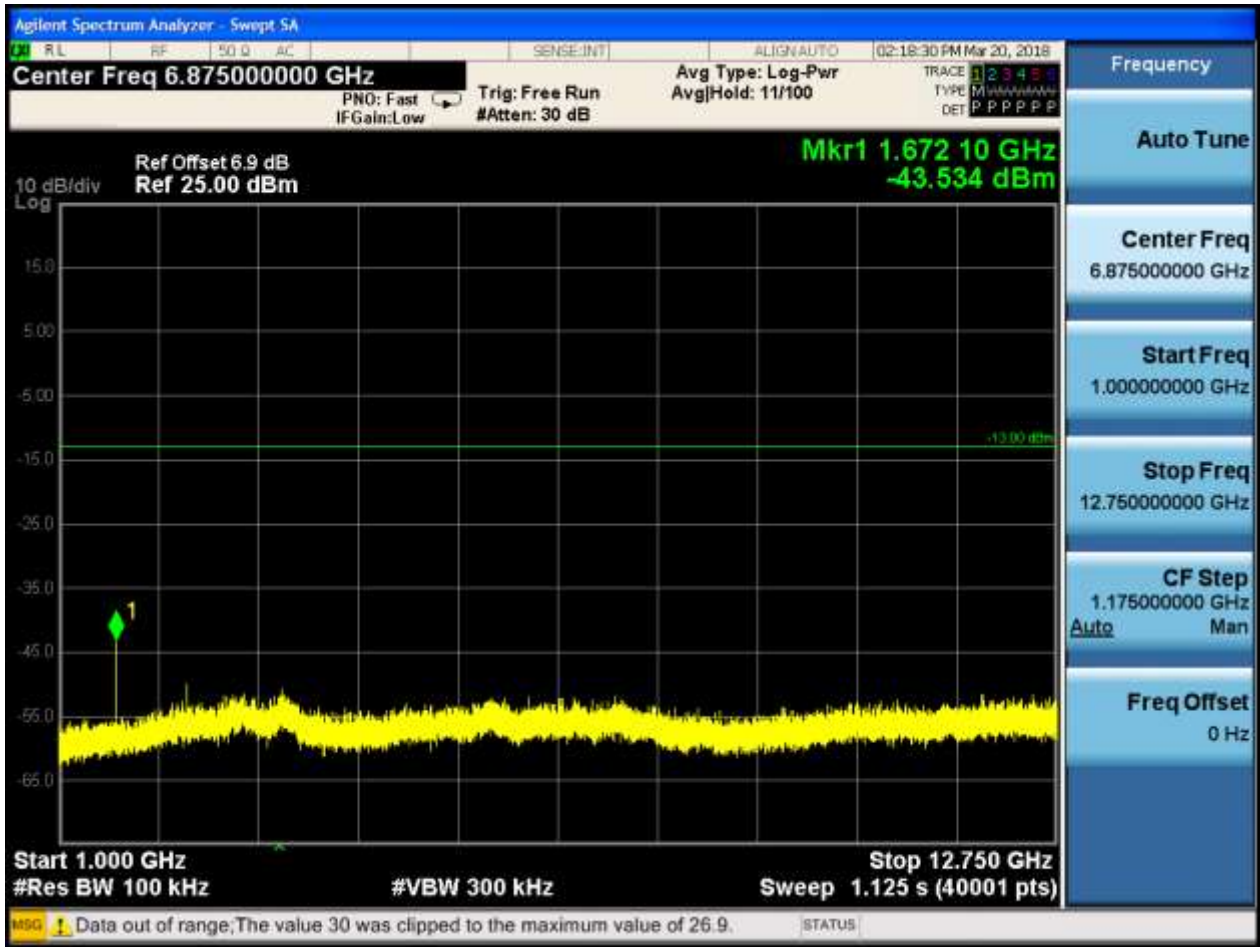
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0







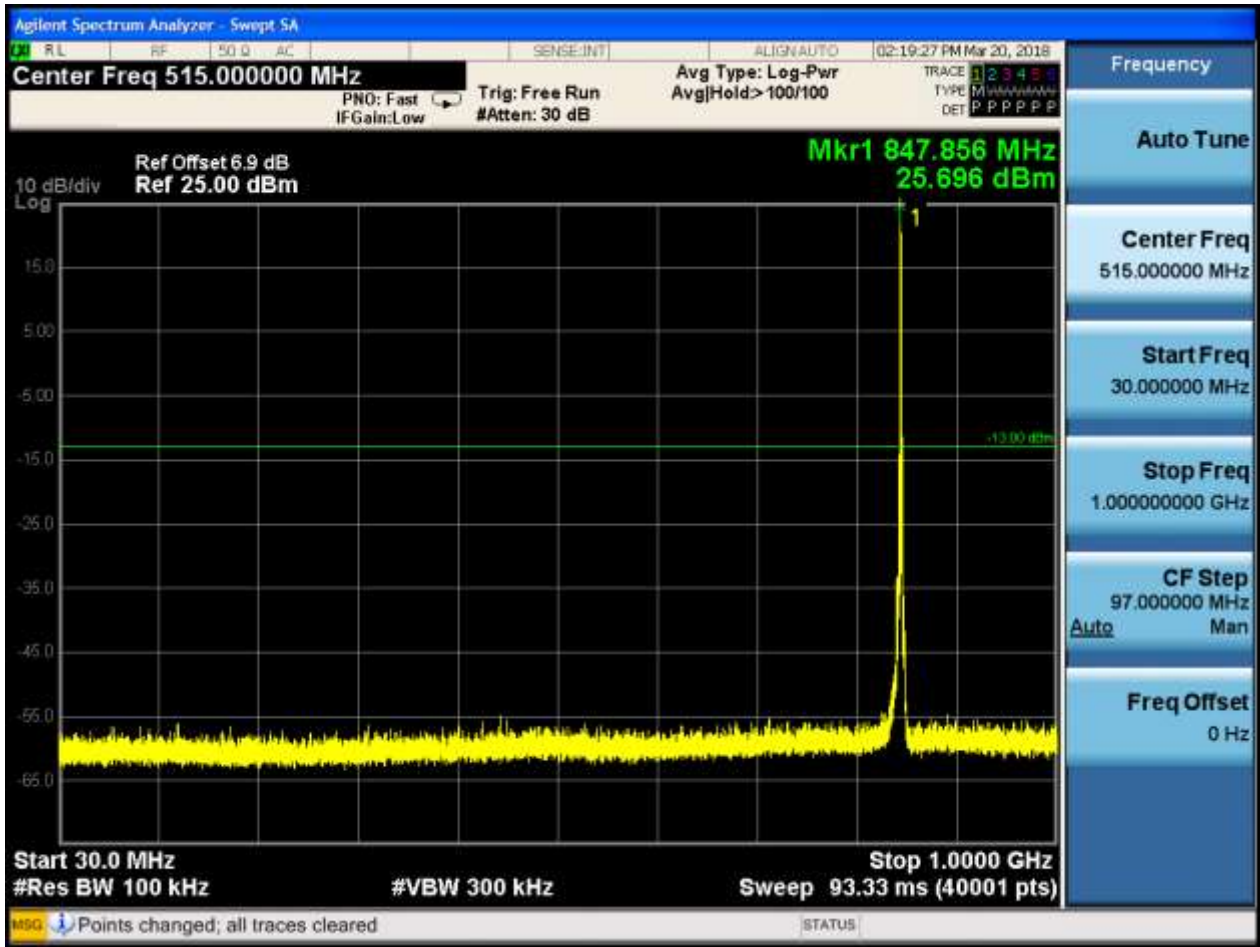


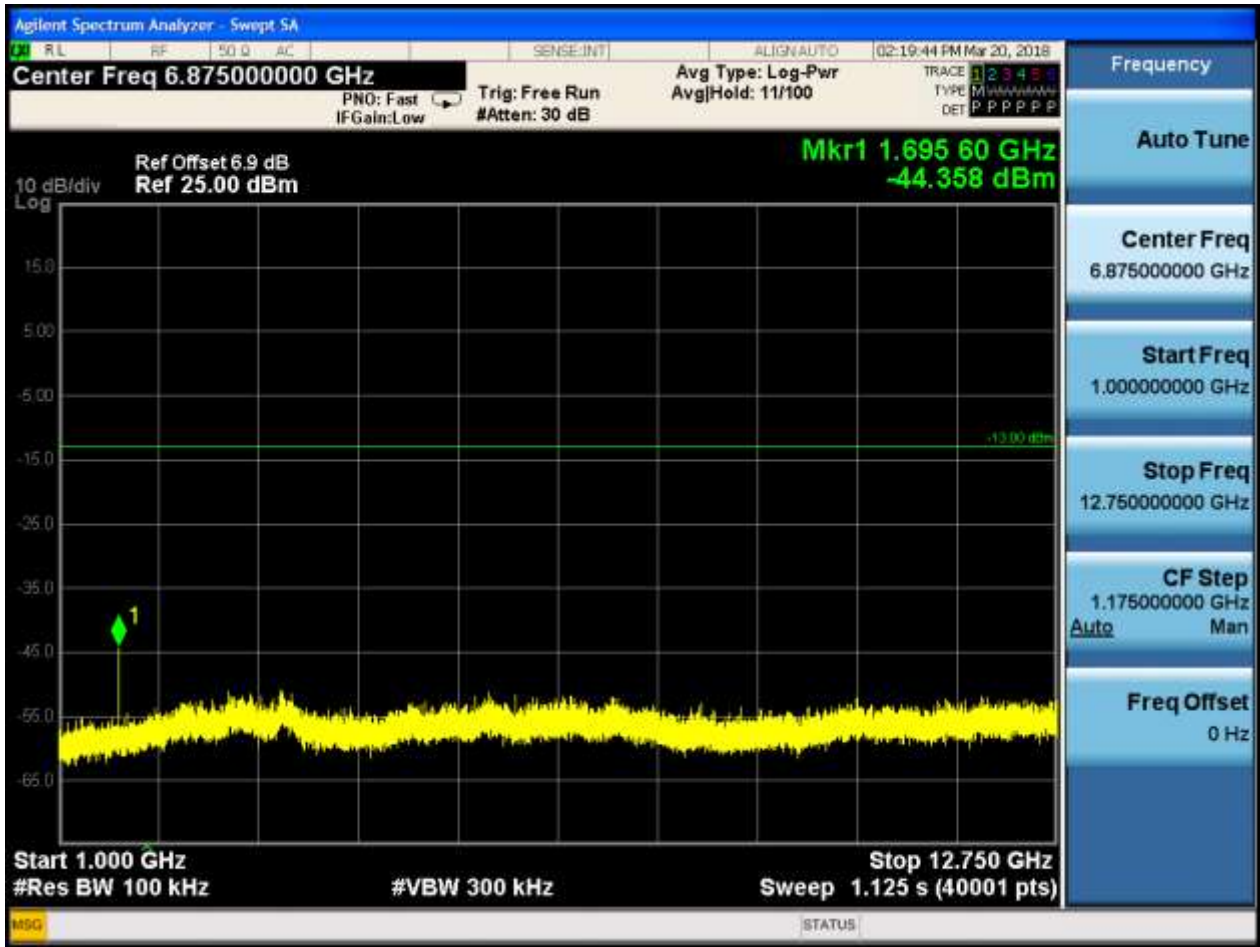
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0











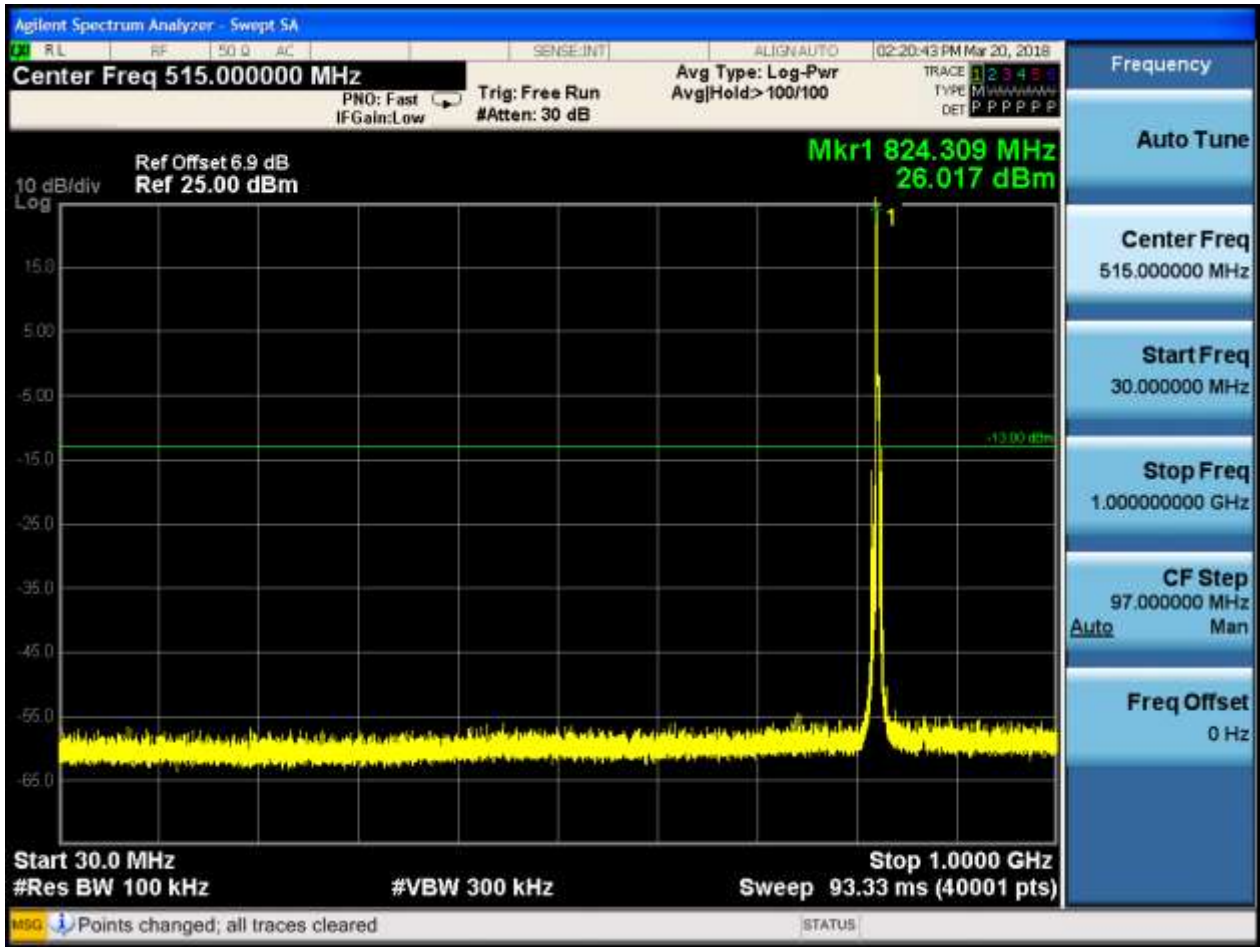
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0





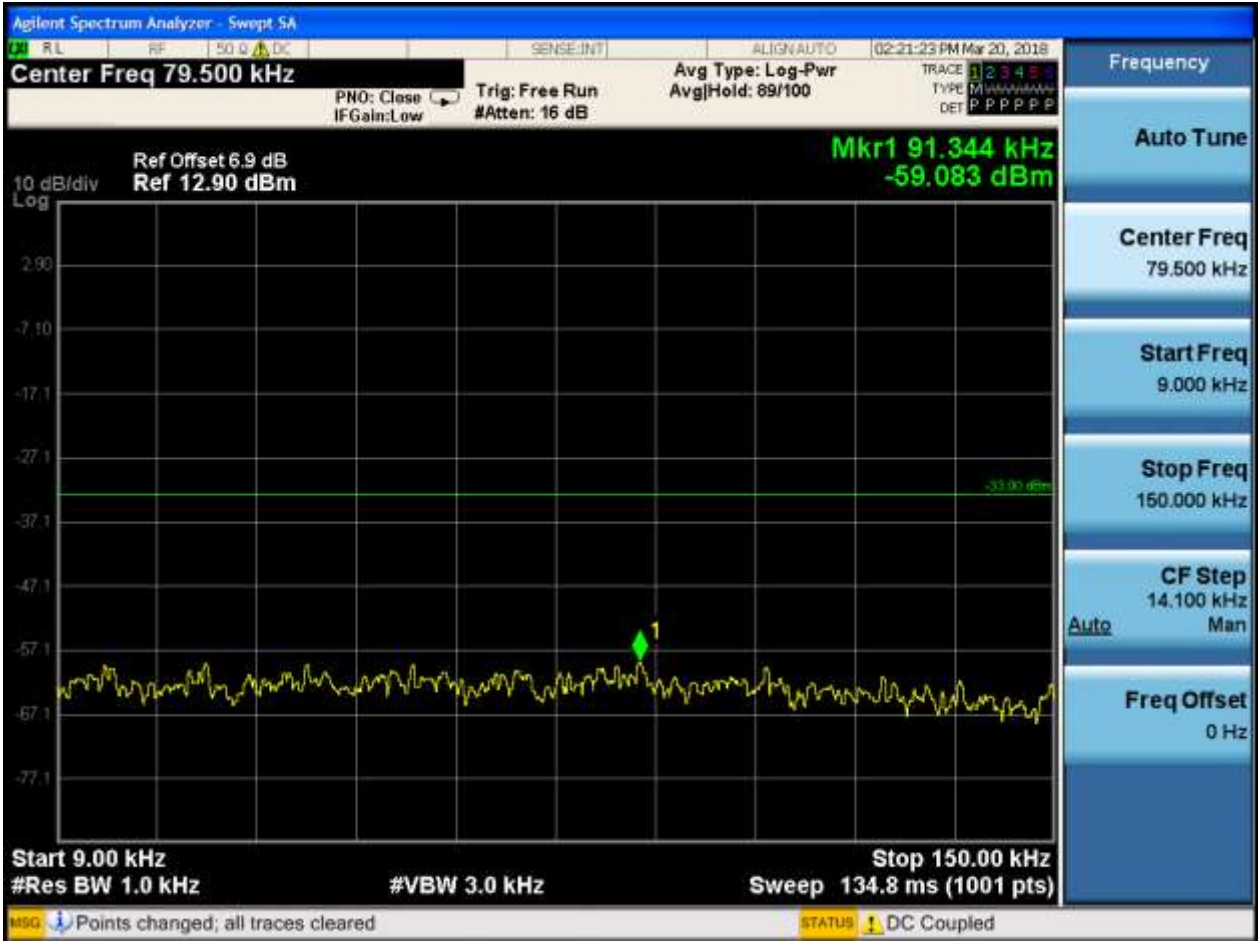




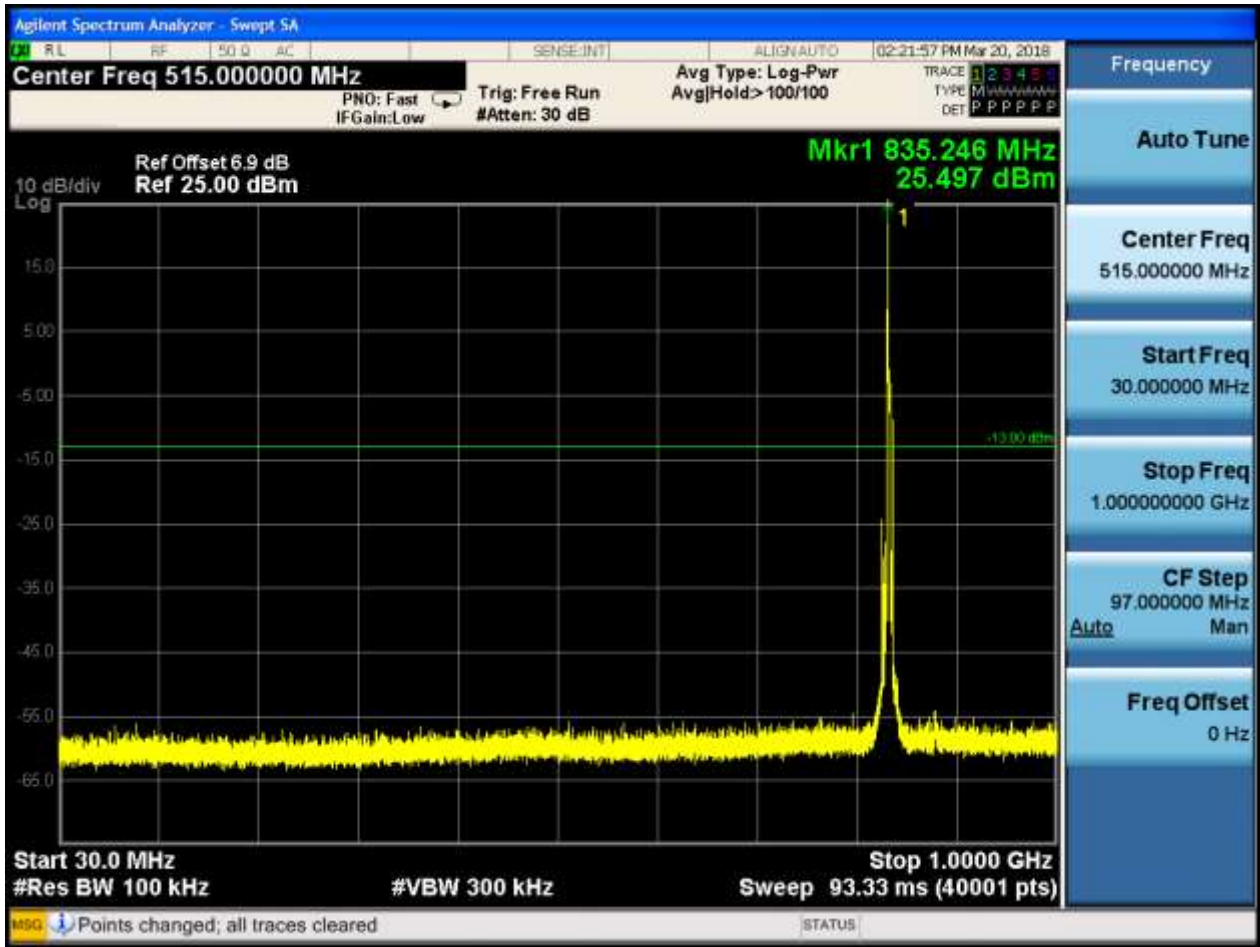


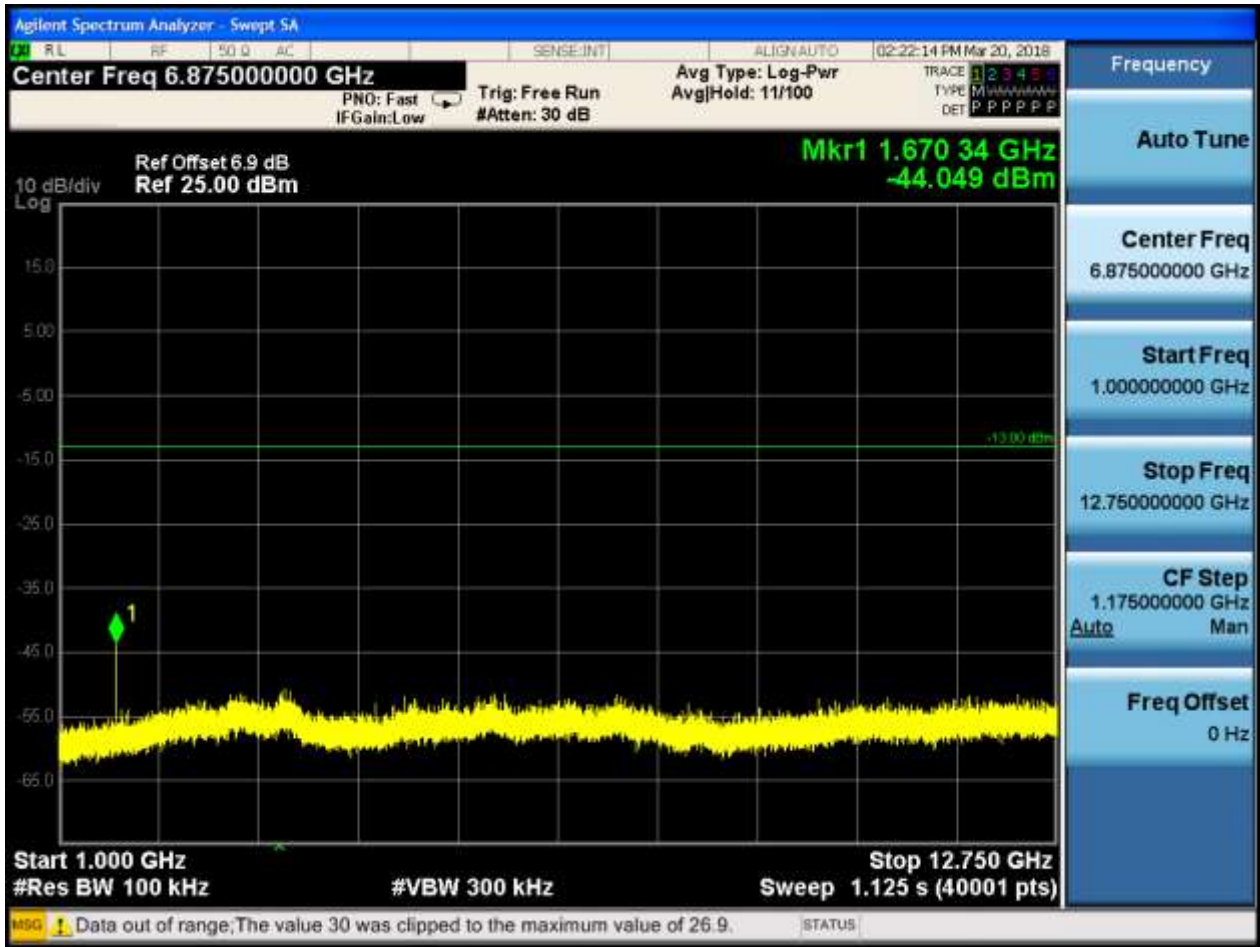
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0







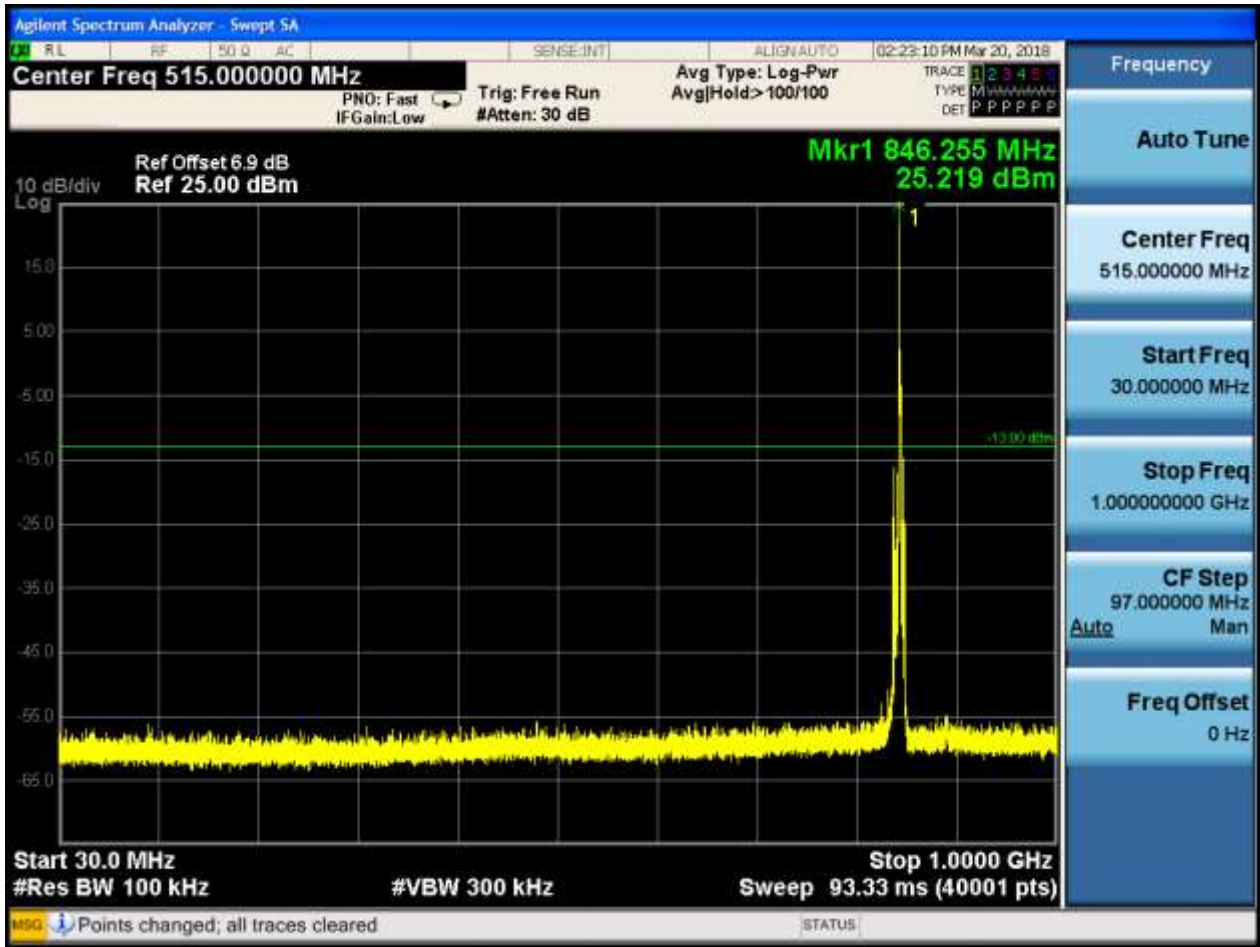


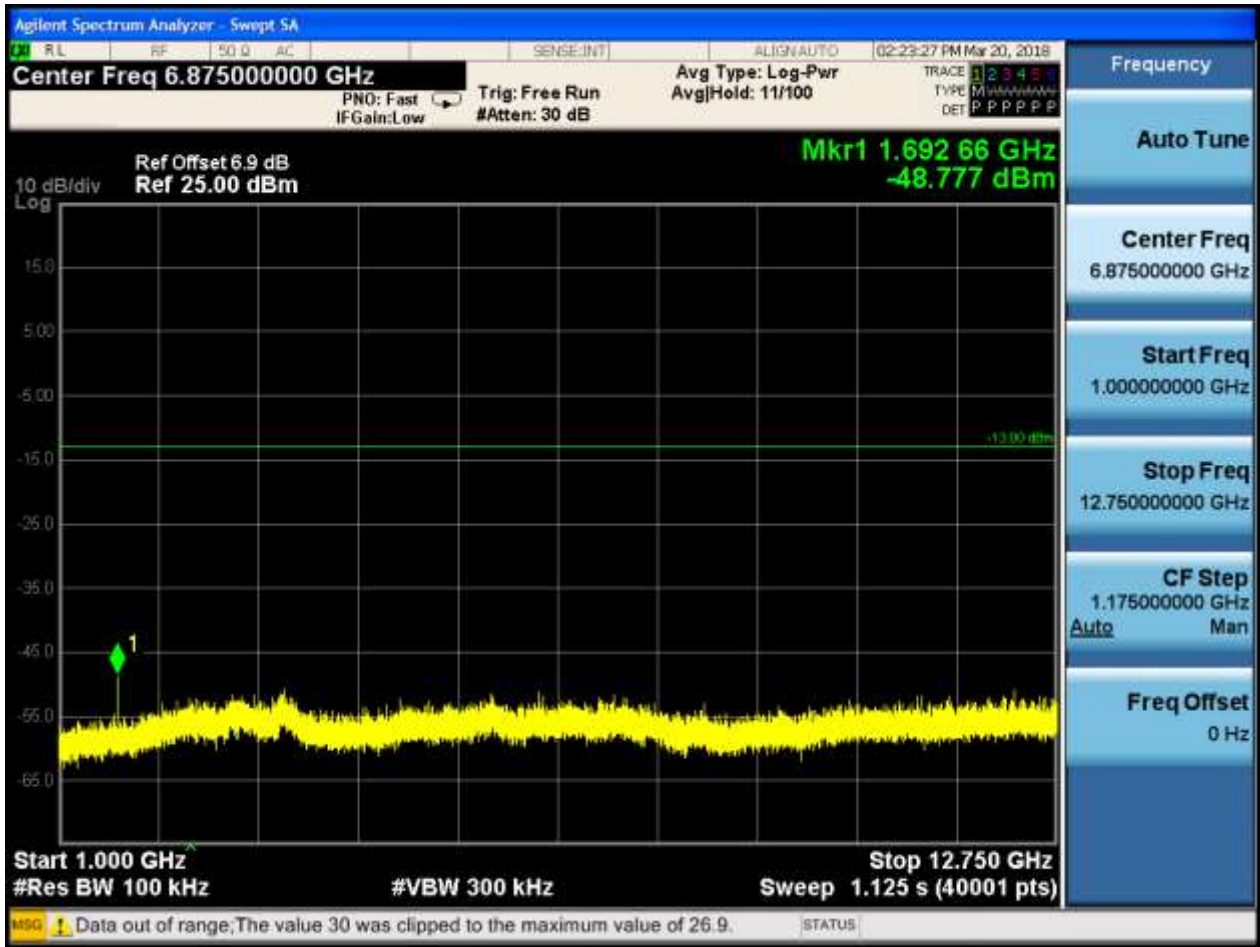
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0









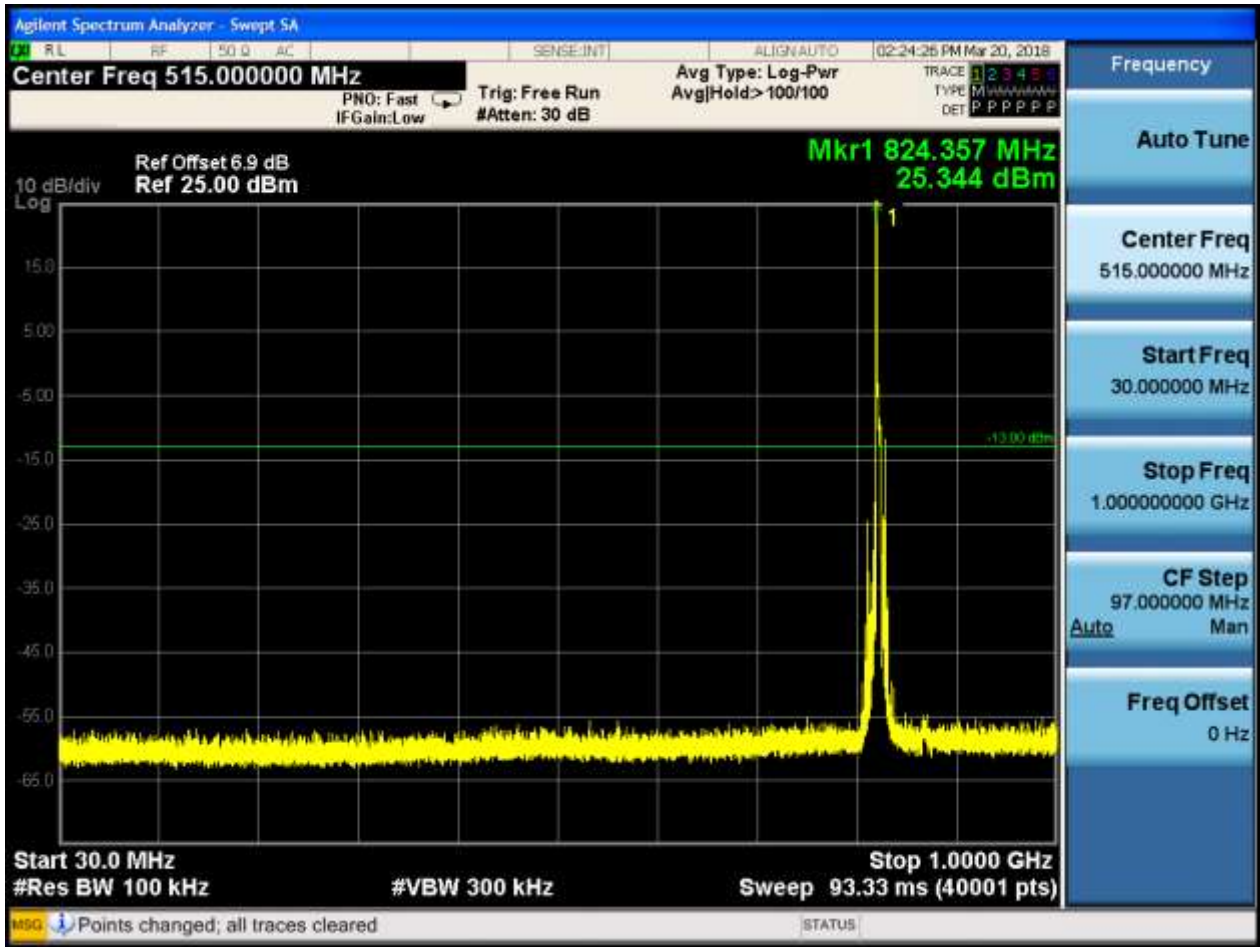
6.1.1.2.3 Test Bandwidth = 5

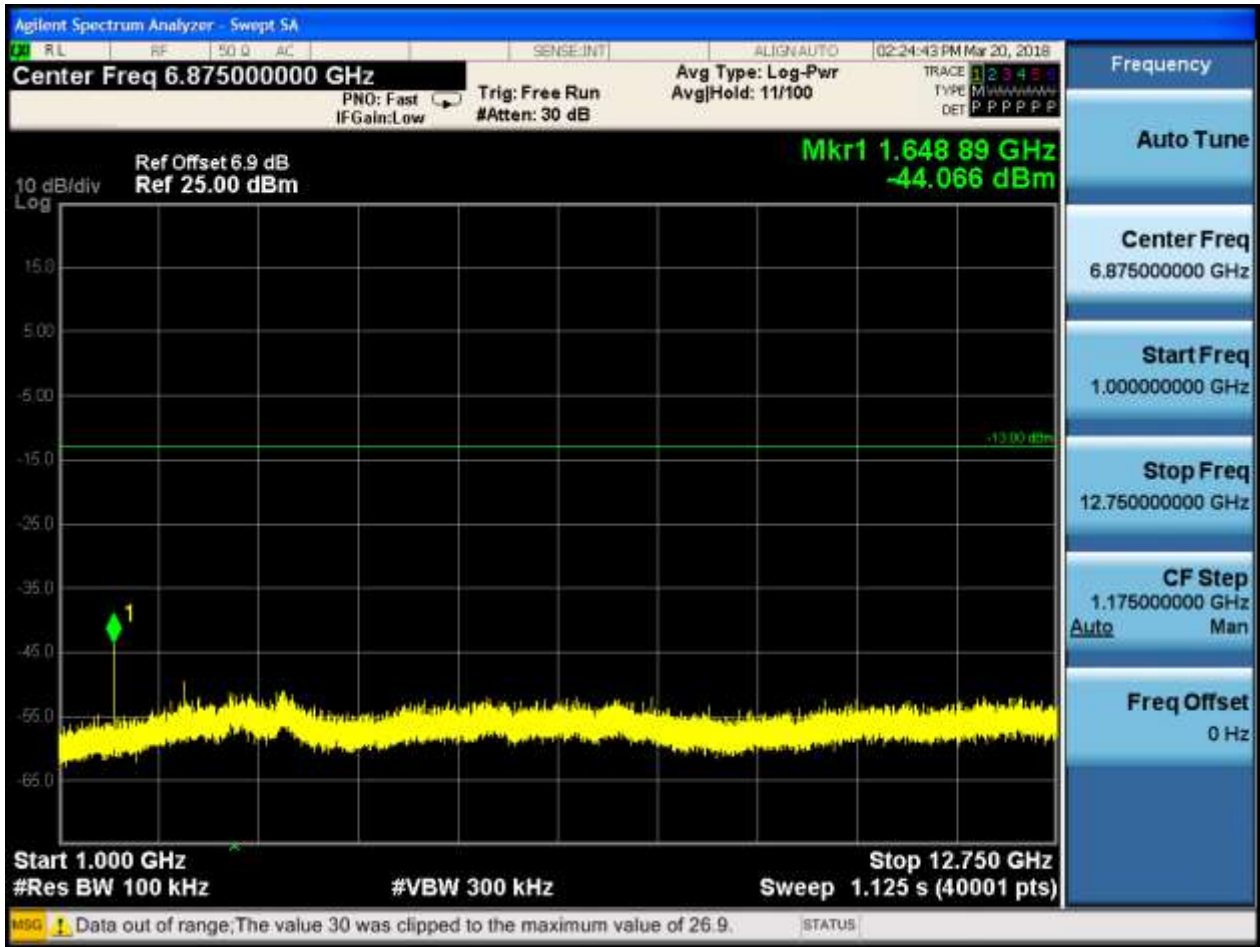
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0







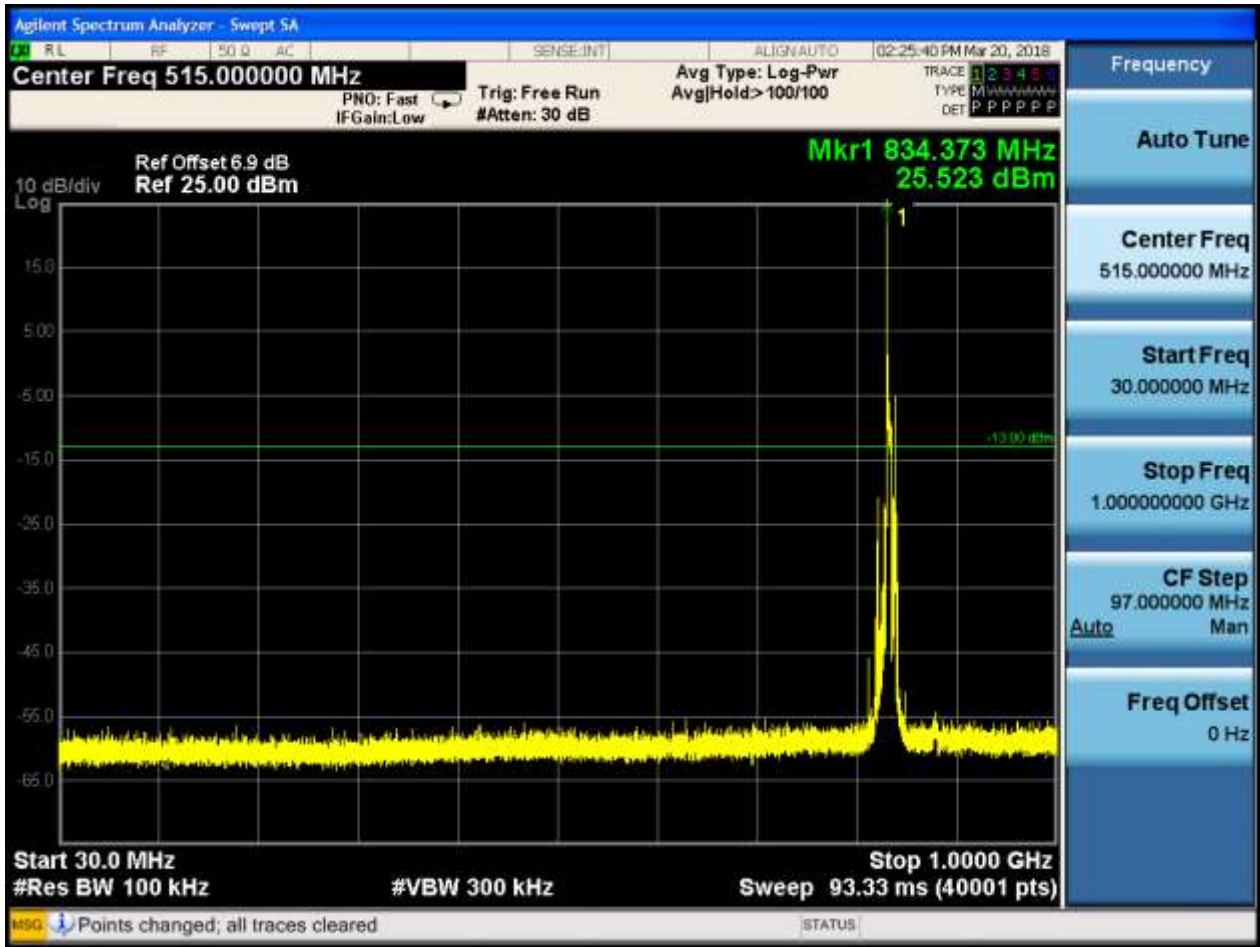


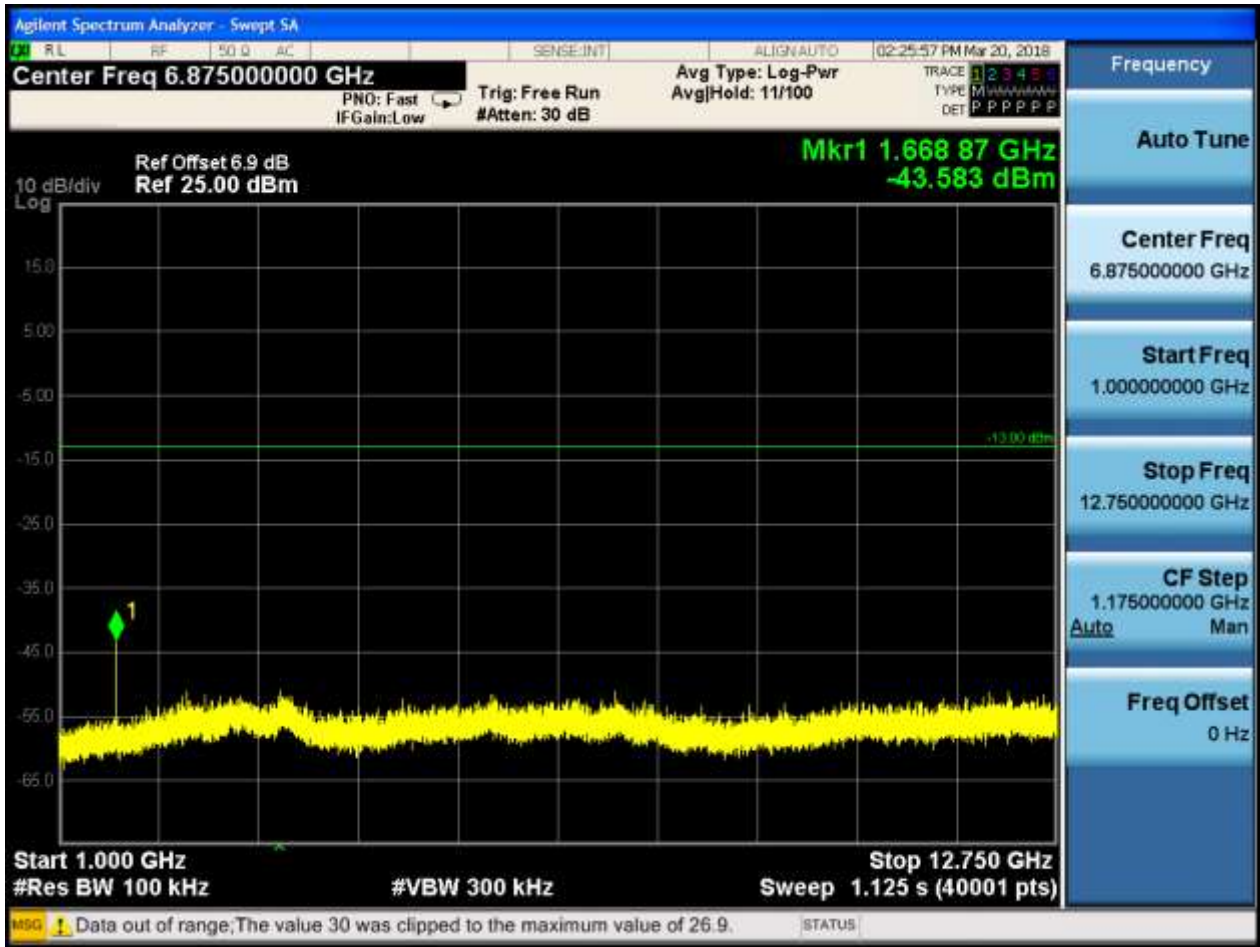
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0









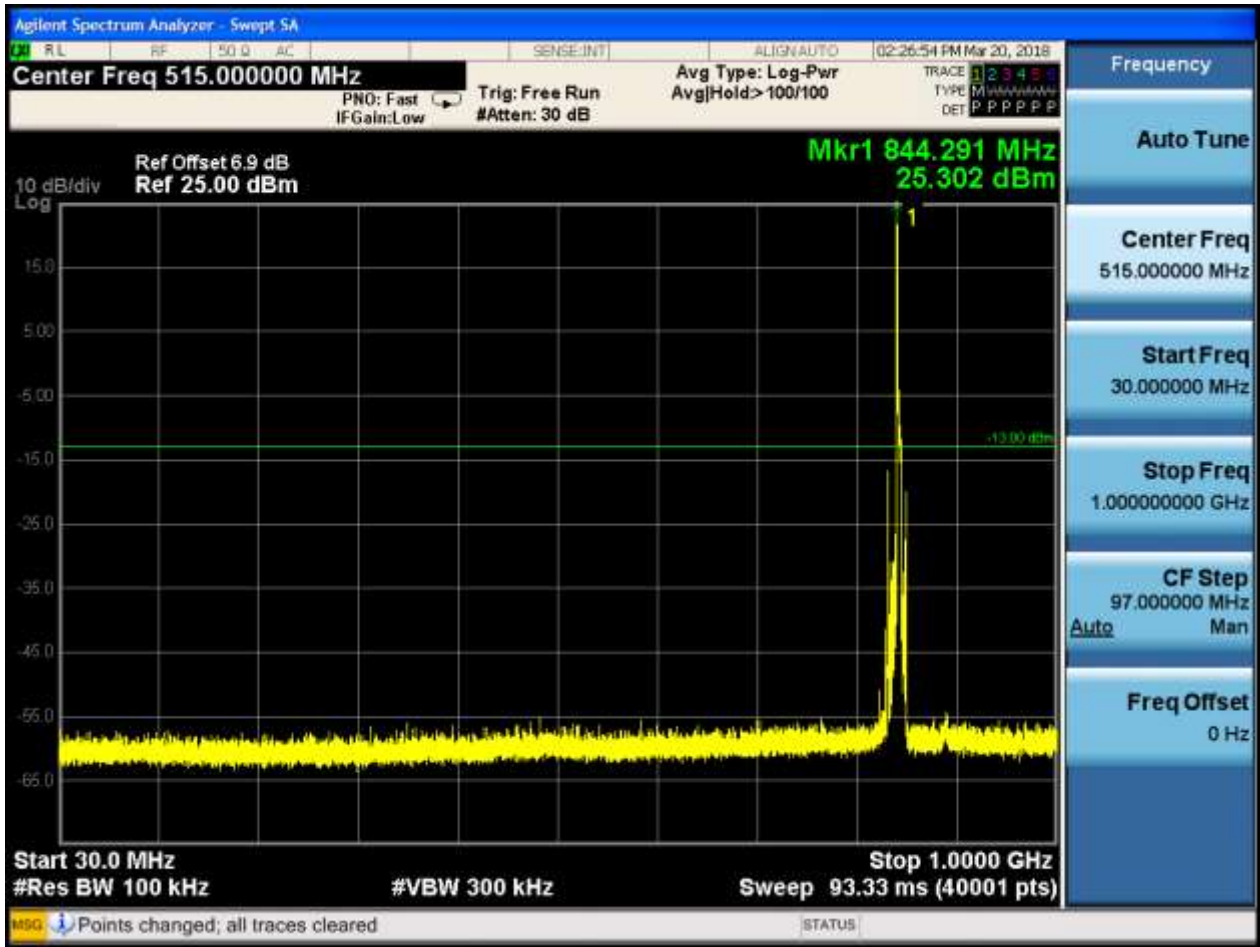


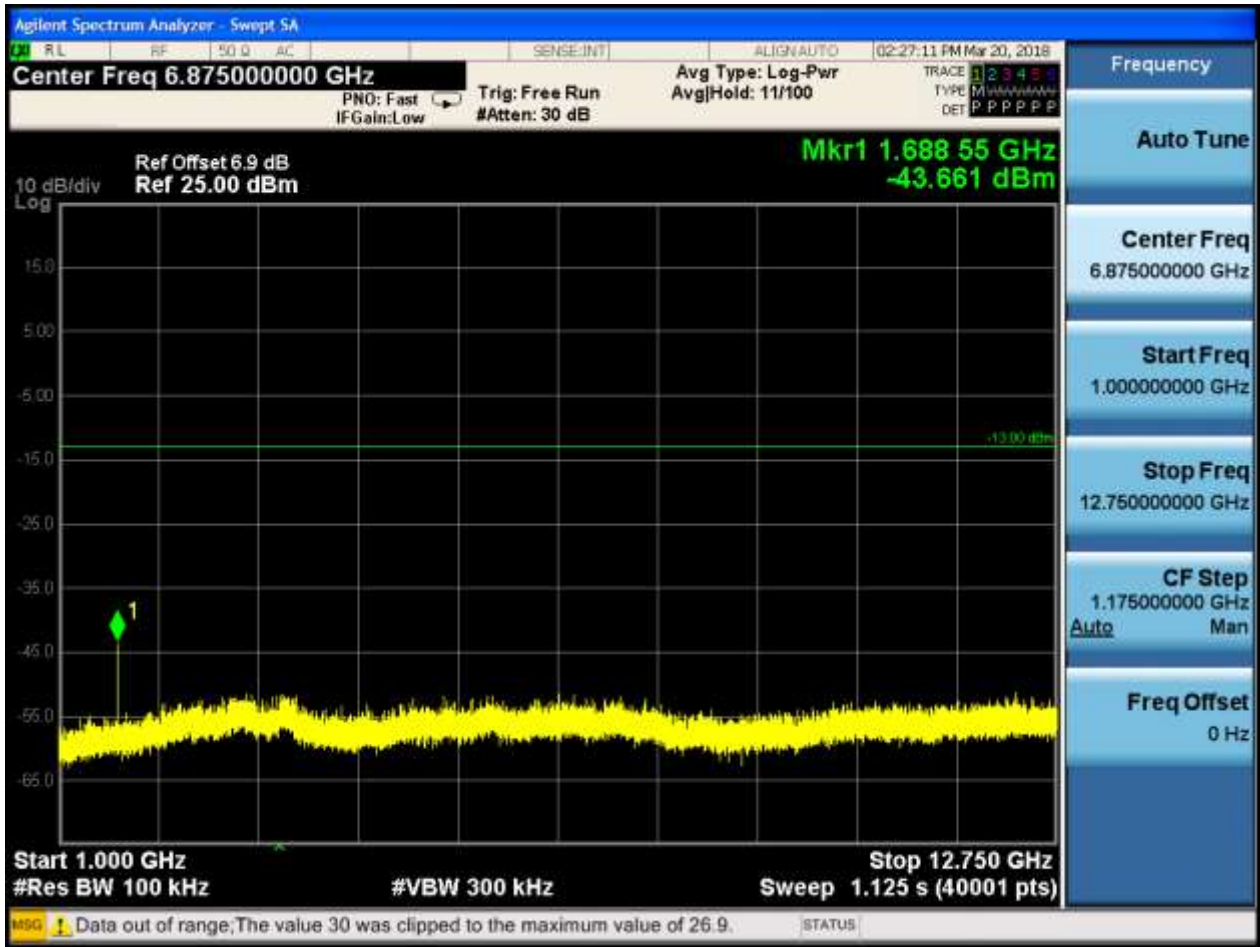
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







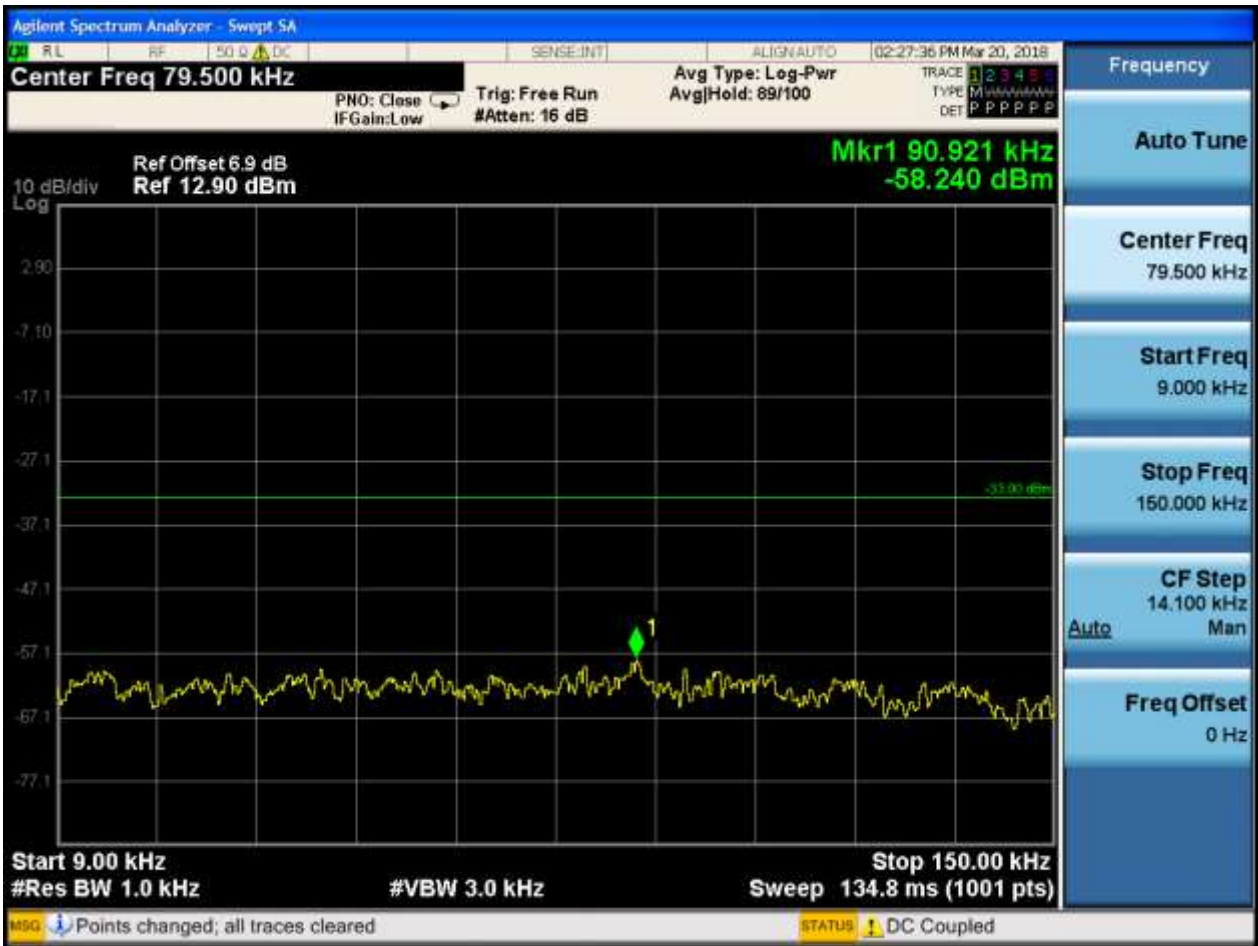




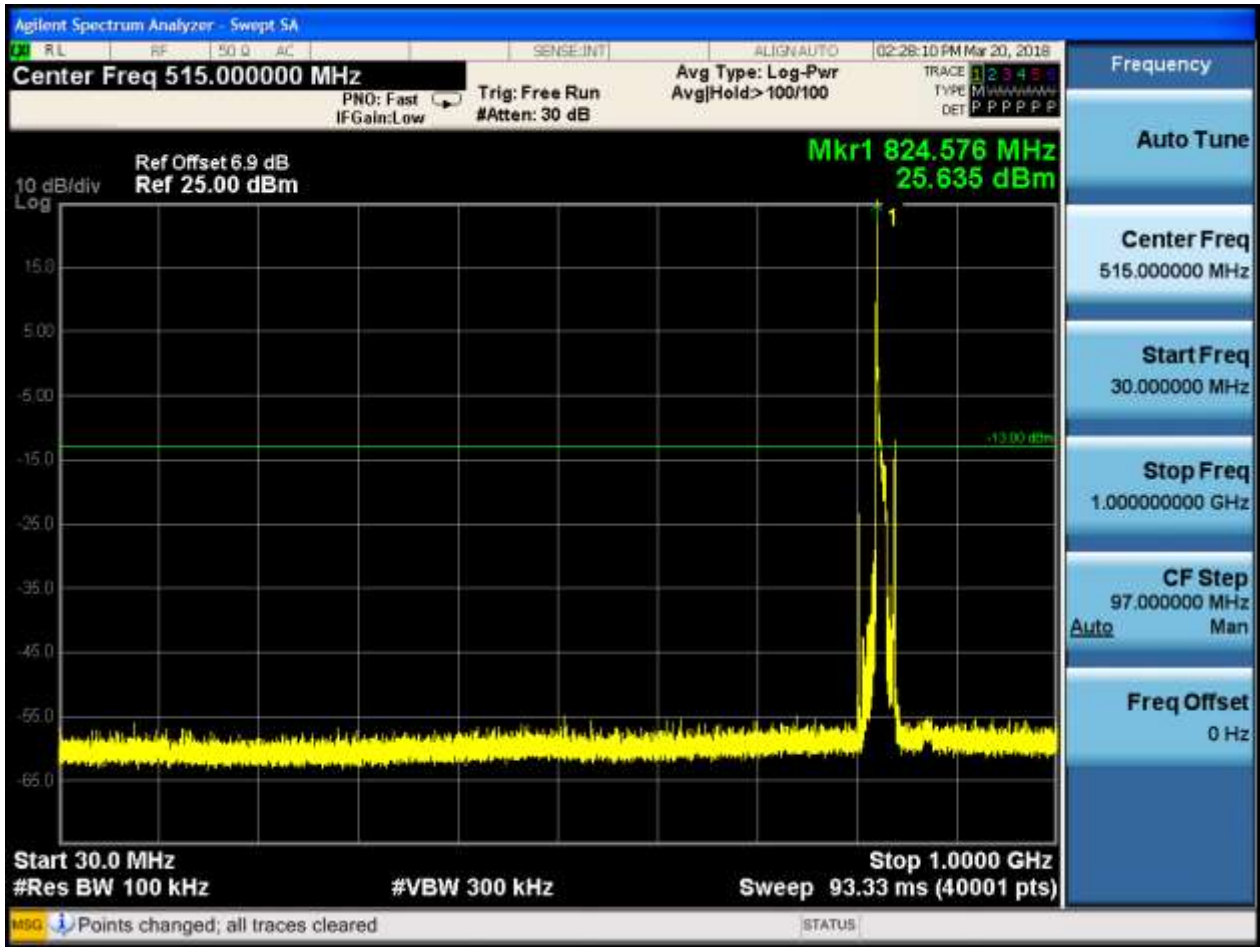
6.1.1.2.4 Test Bandwidth = 10

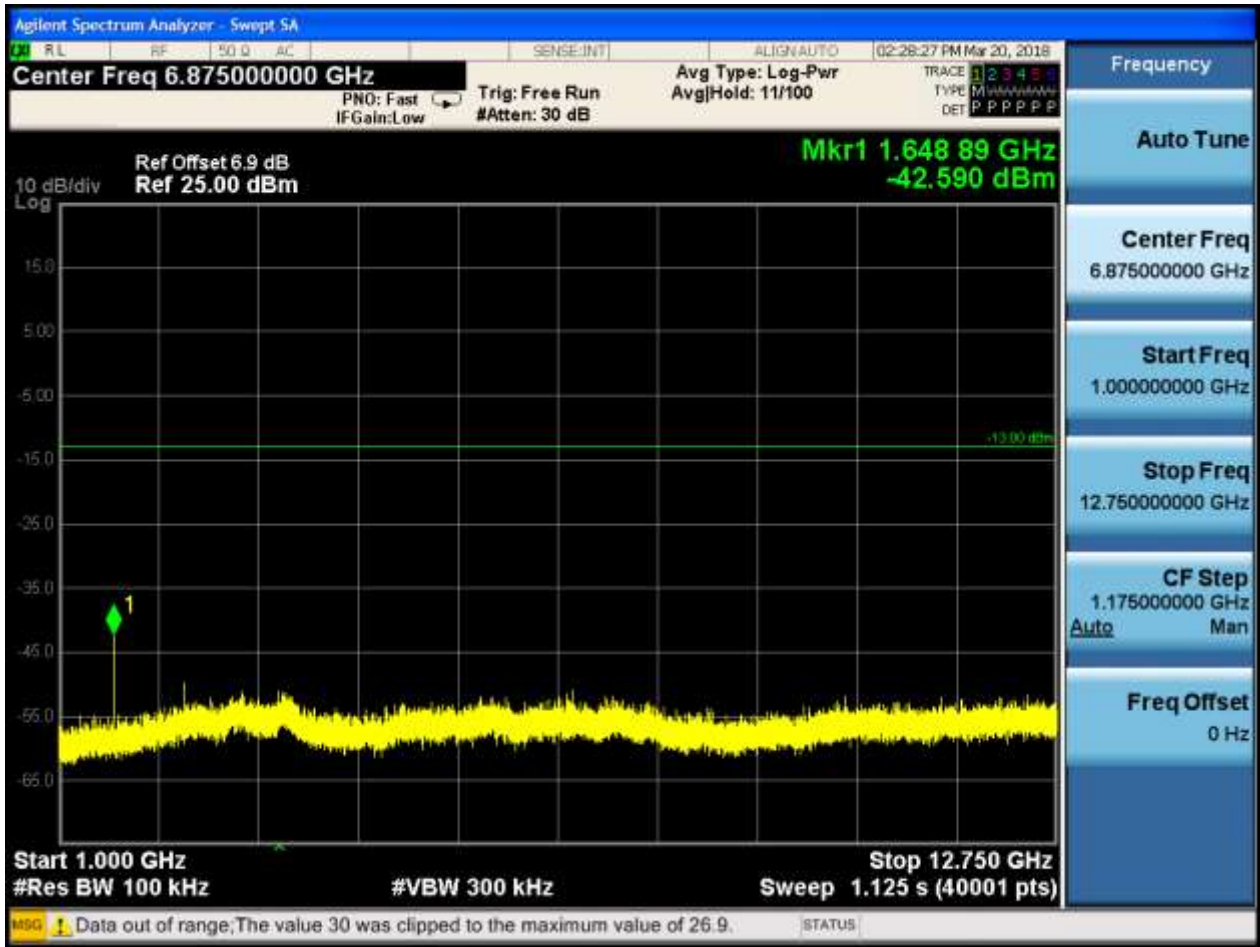
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0









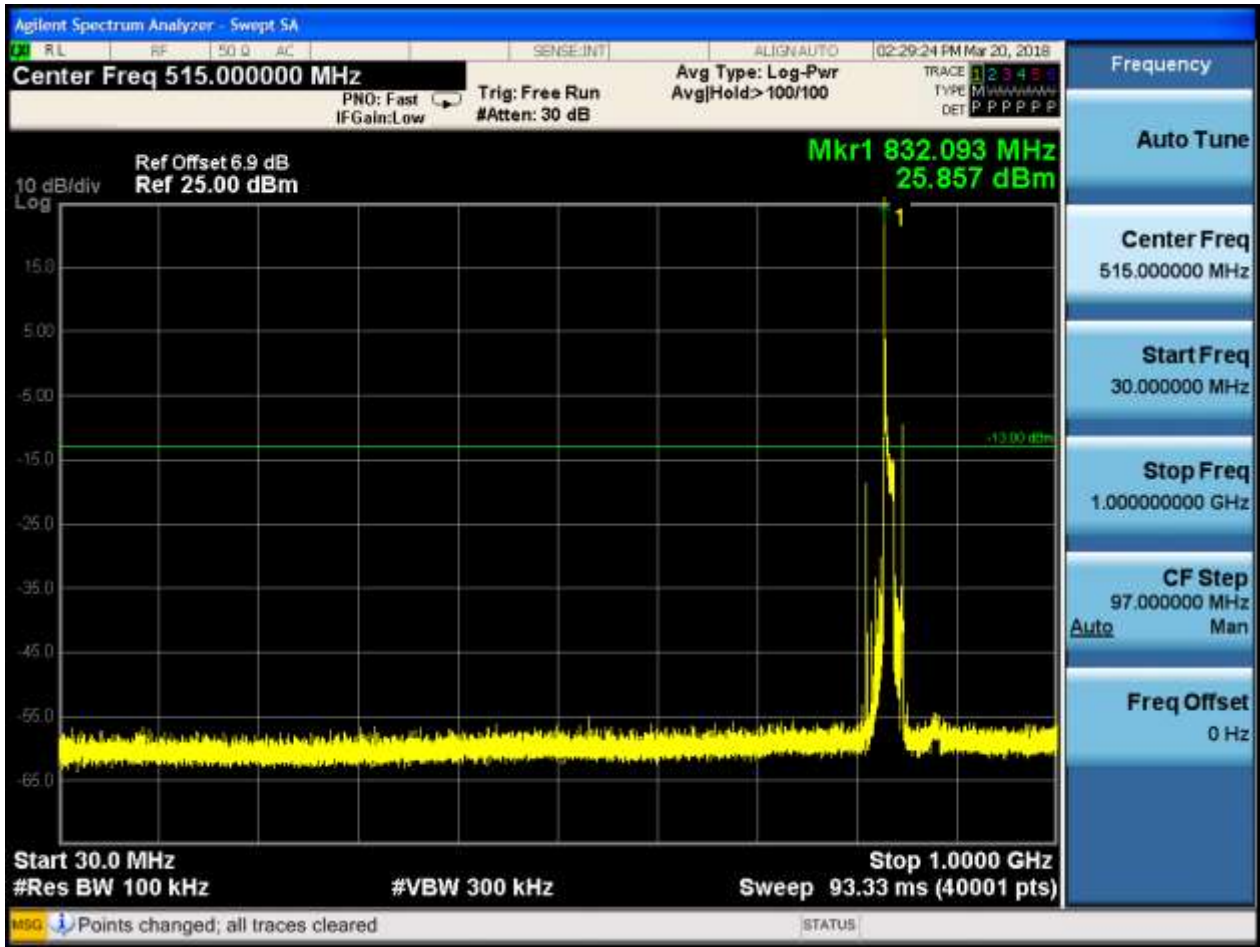


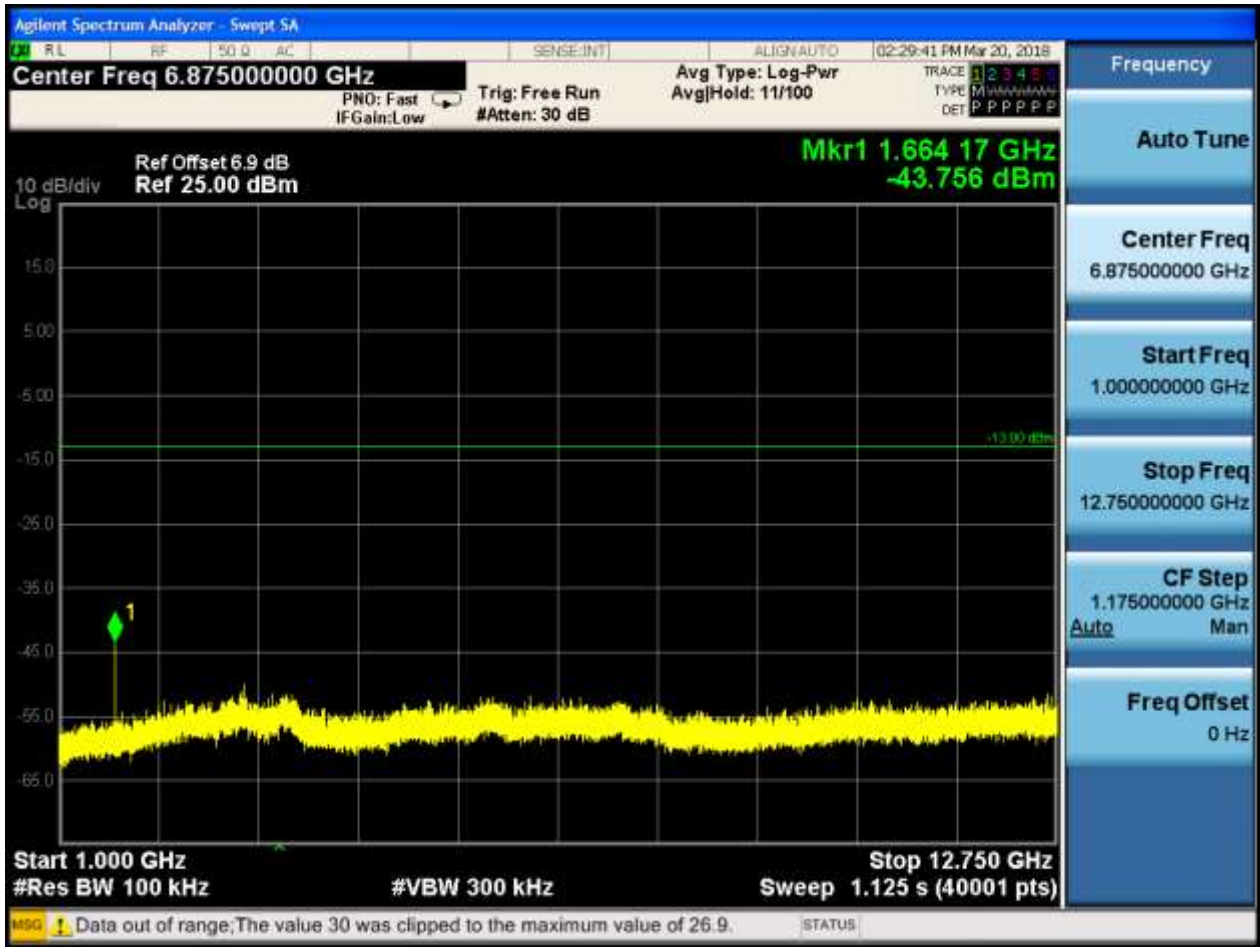
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0









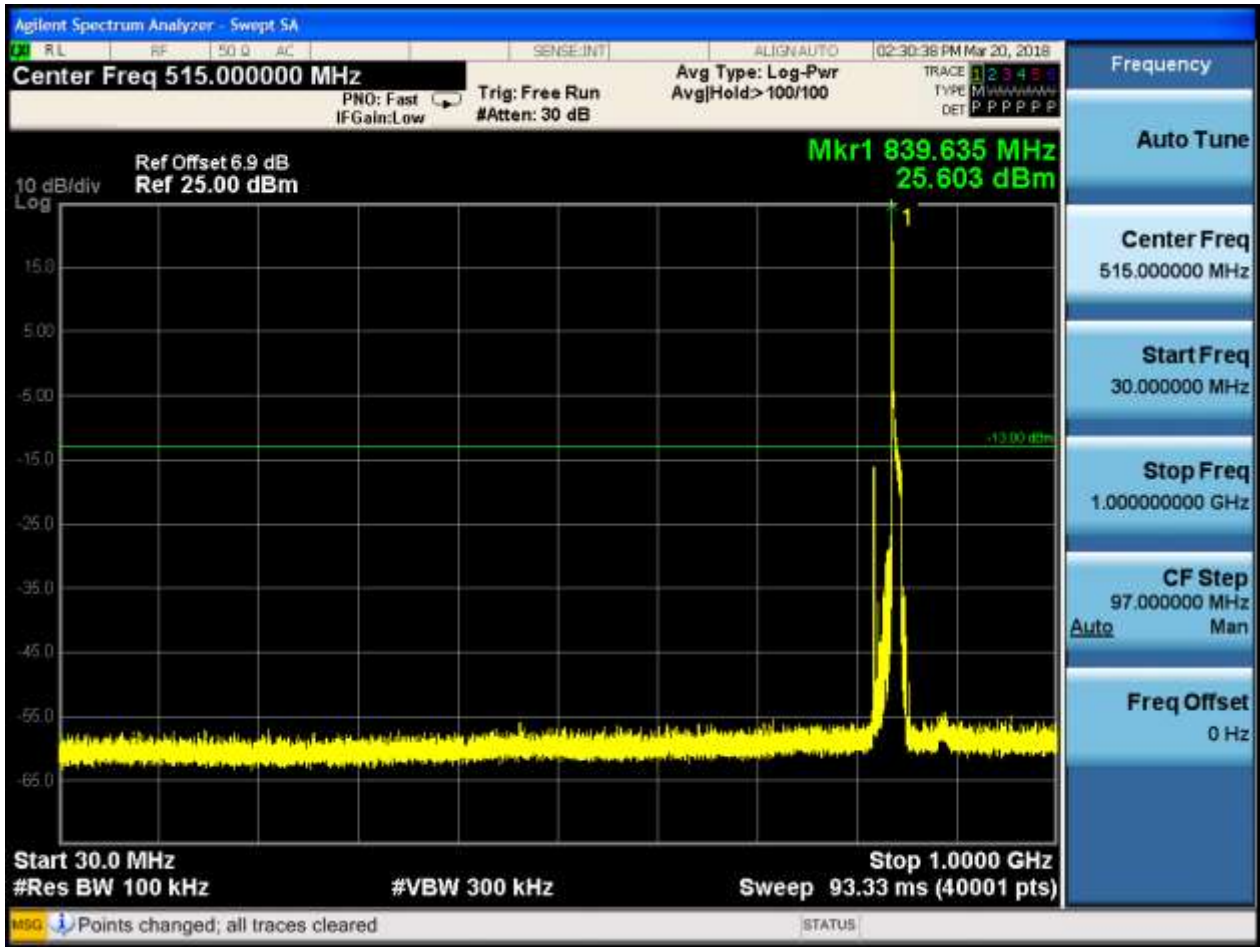


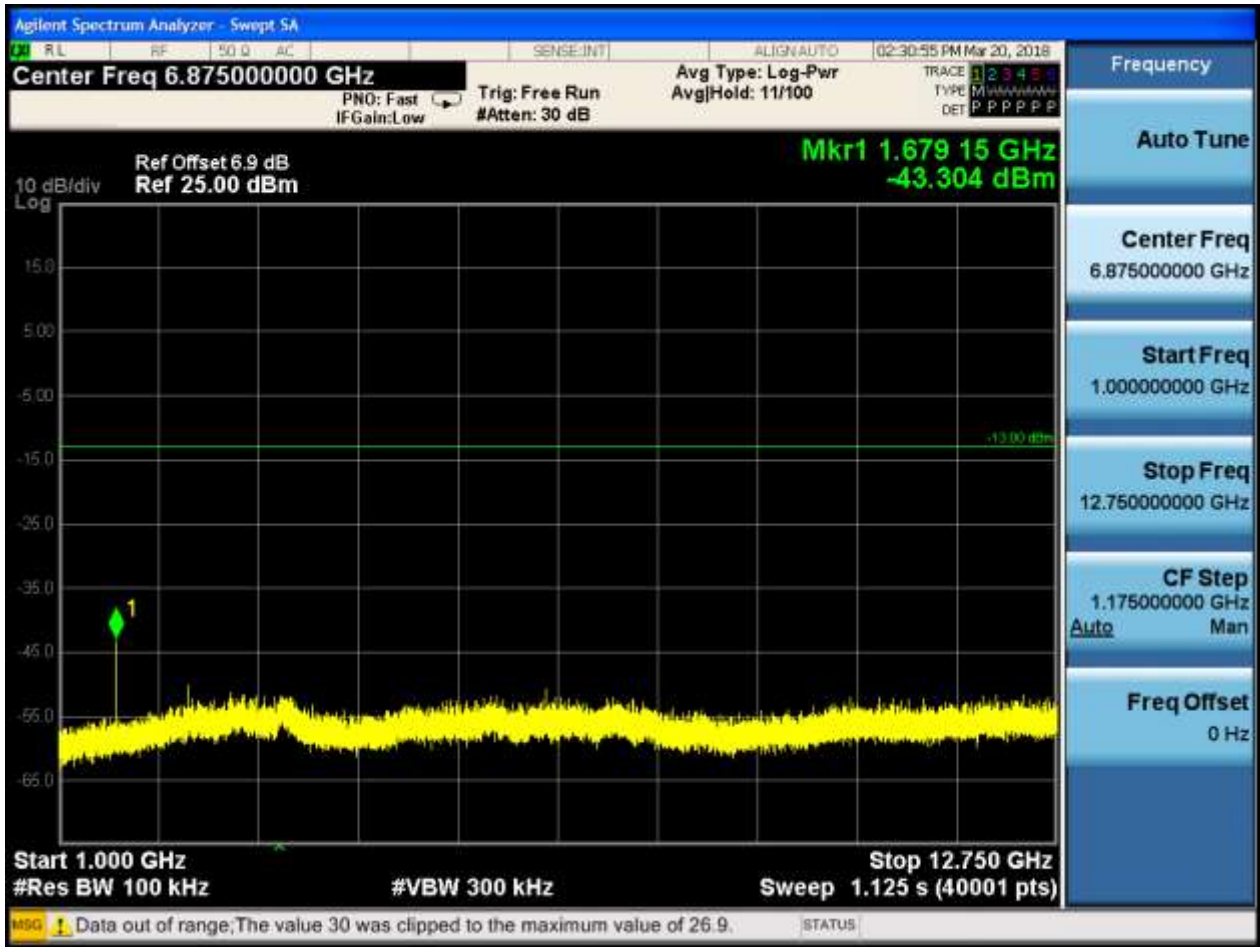
6.1.1.2.4.3 Test Channel = HCH

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

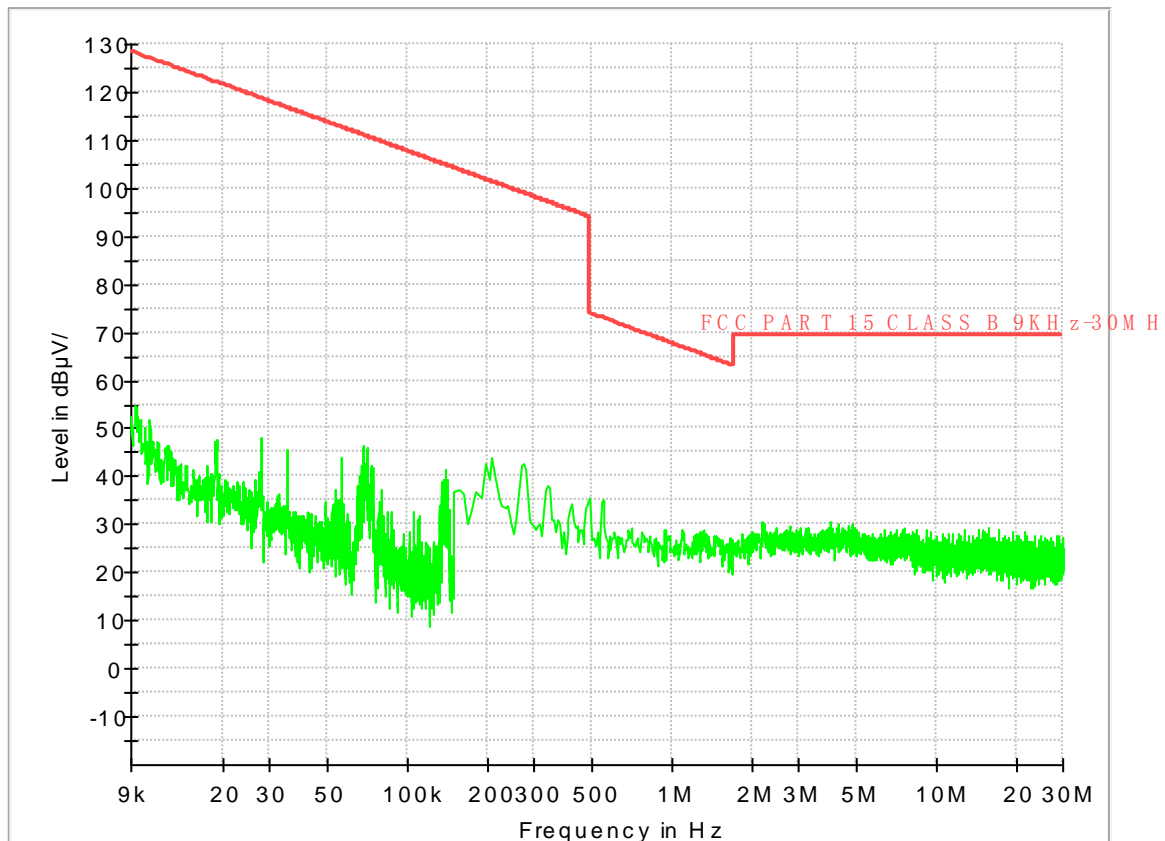
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

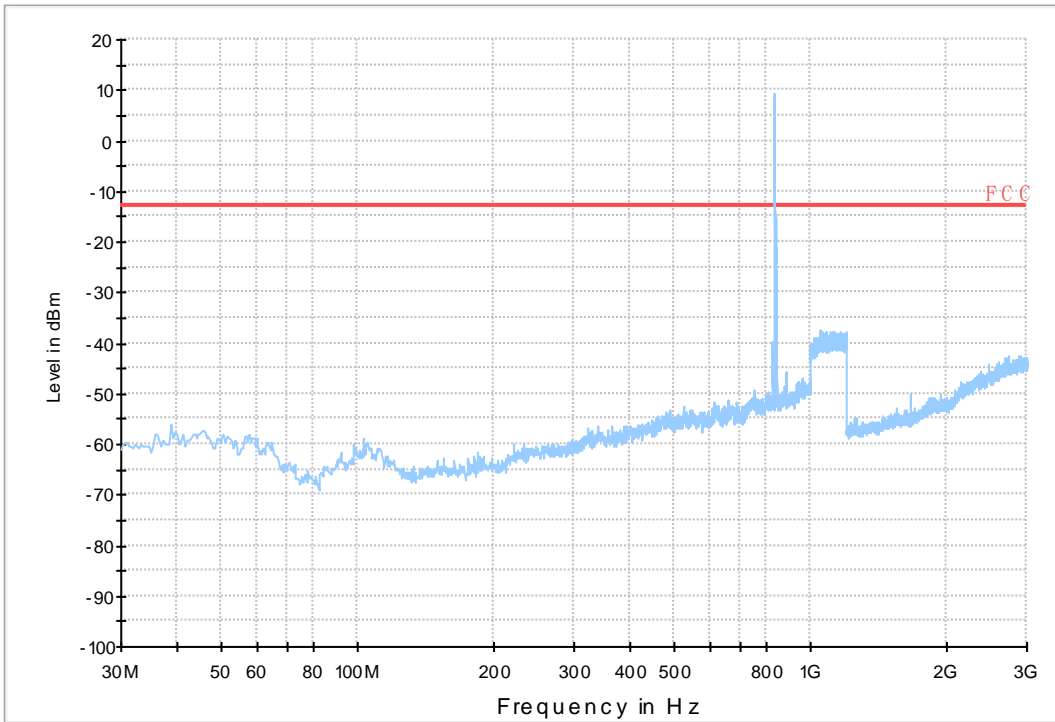
7.1 For LTE

7.1.1 Test Band = BAND5_ANT1

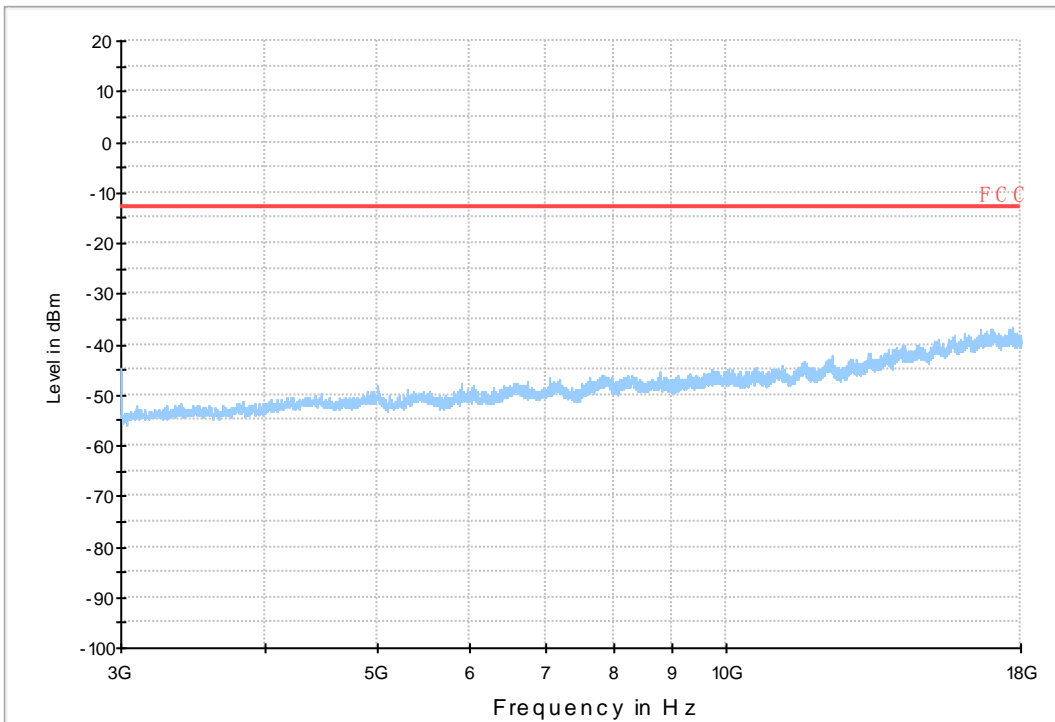
7.1.1.1 Test Bandwidth = 1.4



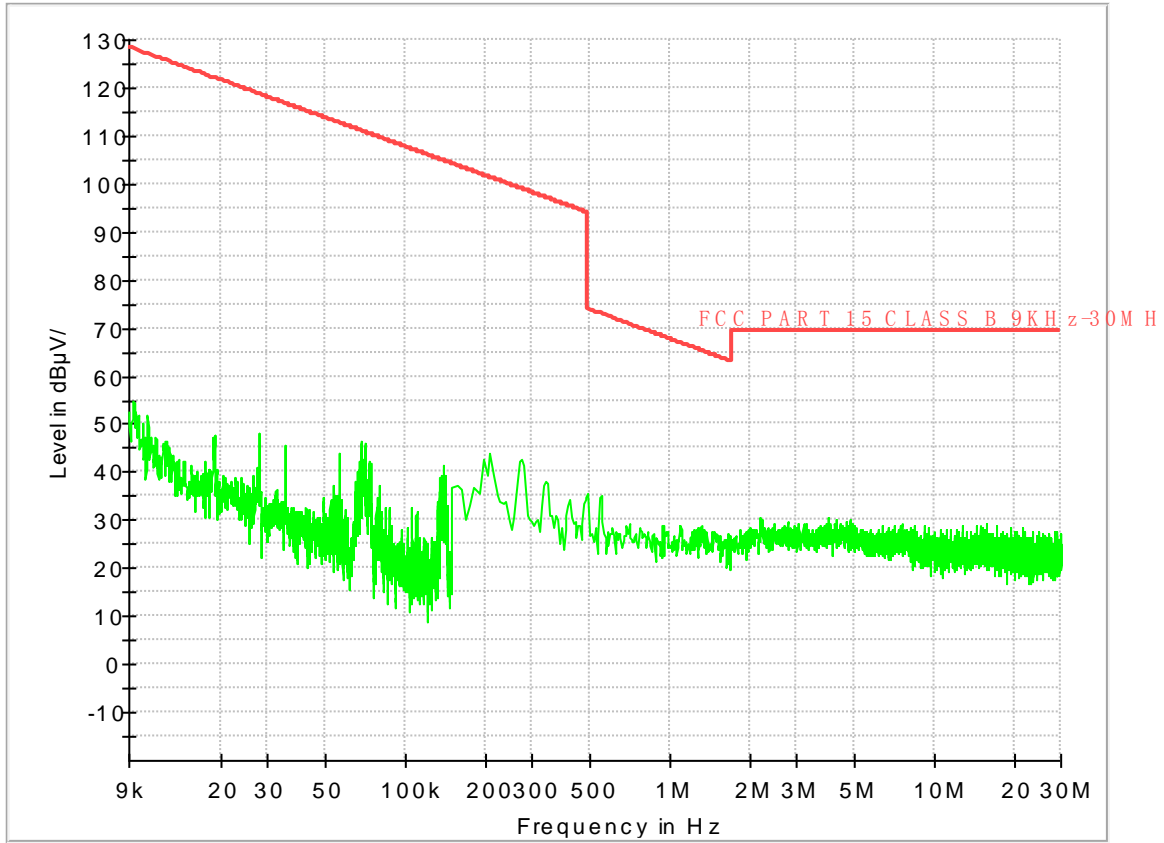
Copy of RSE-TX-DIRECTOR BELOW 1G_L



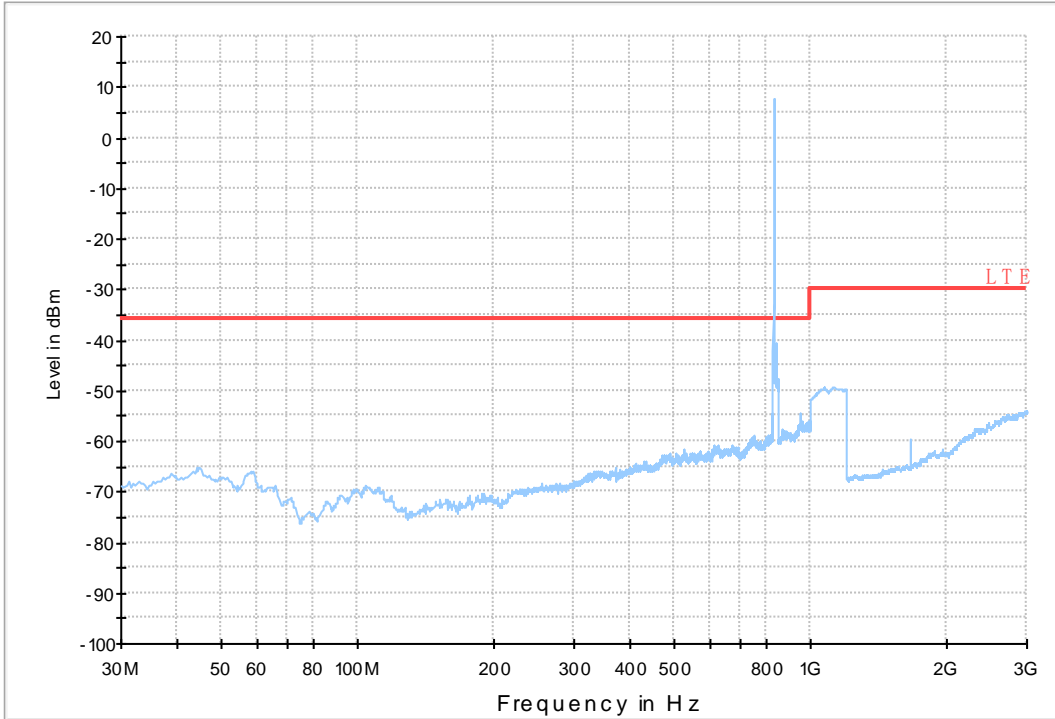
Copy of RSE-TX-DIRECTOR BELOW 1G_H



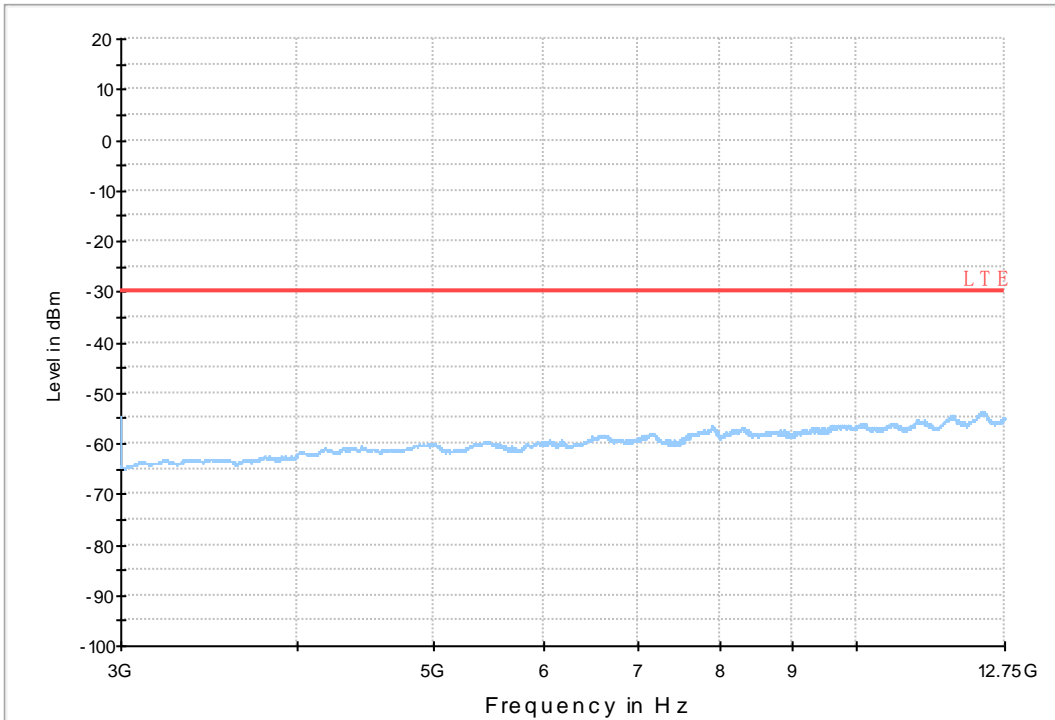
7.1.1.2 Test Bandwidth = 10



RSE-TX-DIRECTOR BELOW 1G_L

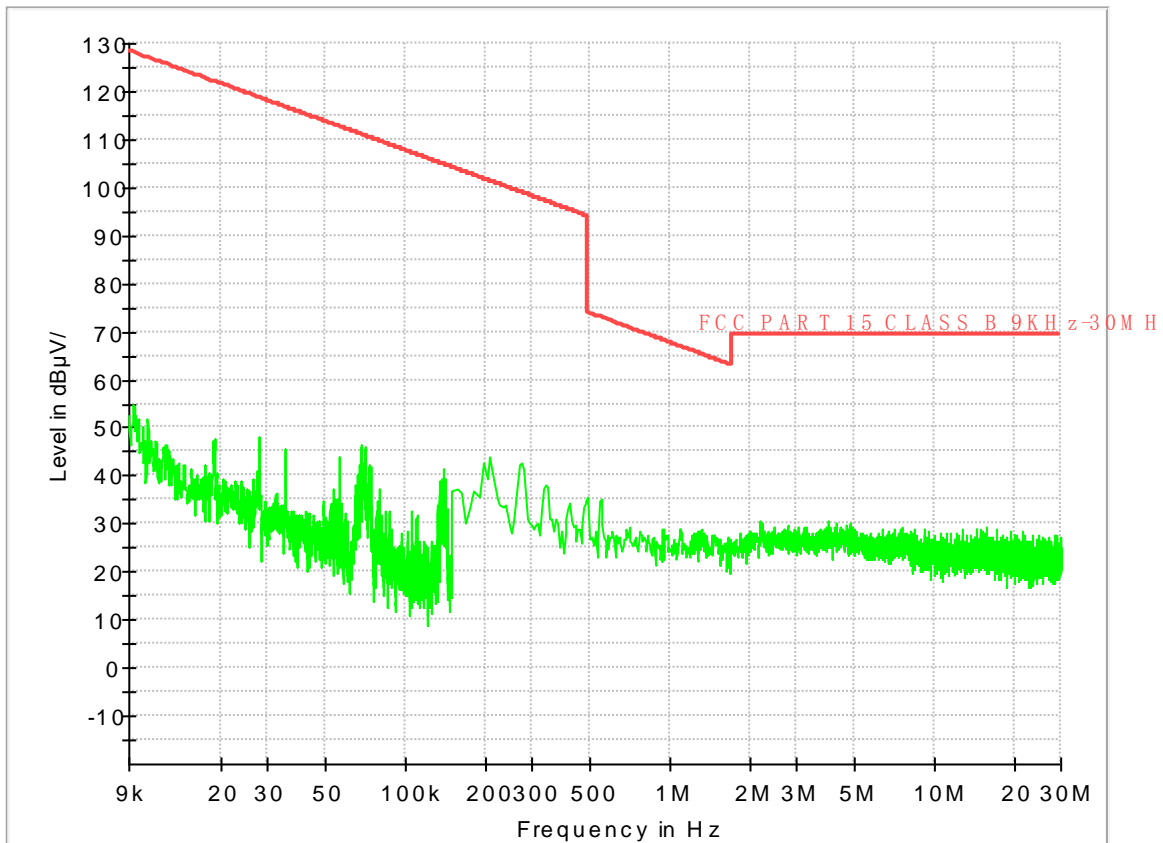


RSE-TX-DIRECTOR BELOW 1G_H

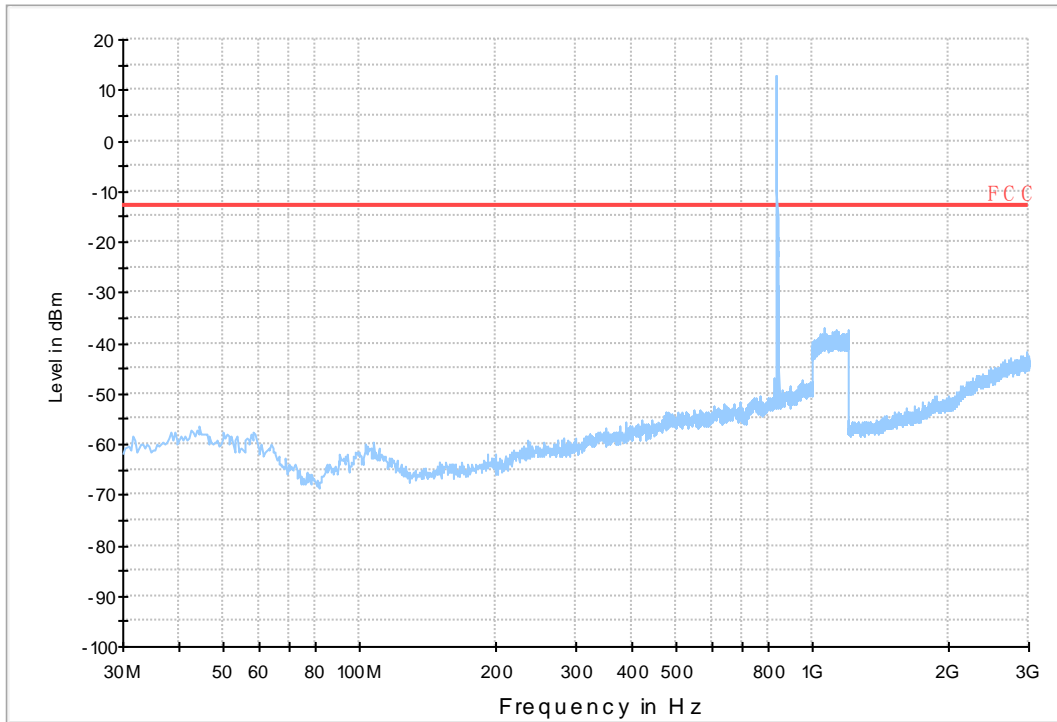


7.1.2 Test Band = BAND5_ANT2

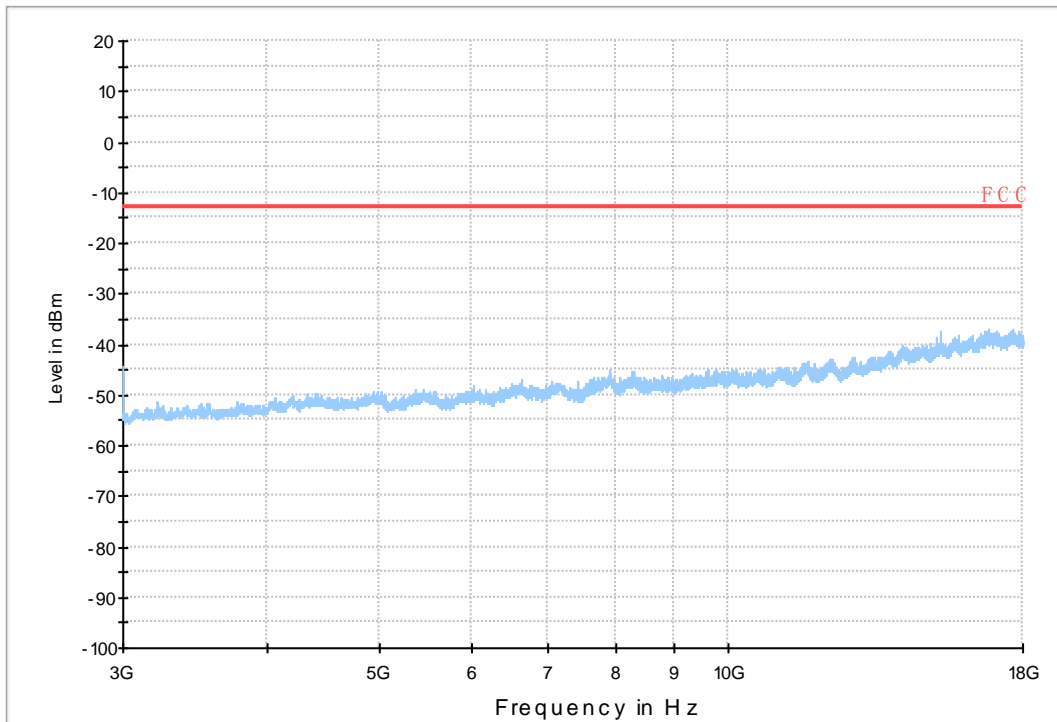
7.1.2.1 Test Bandwidth =1.4



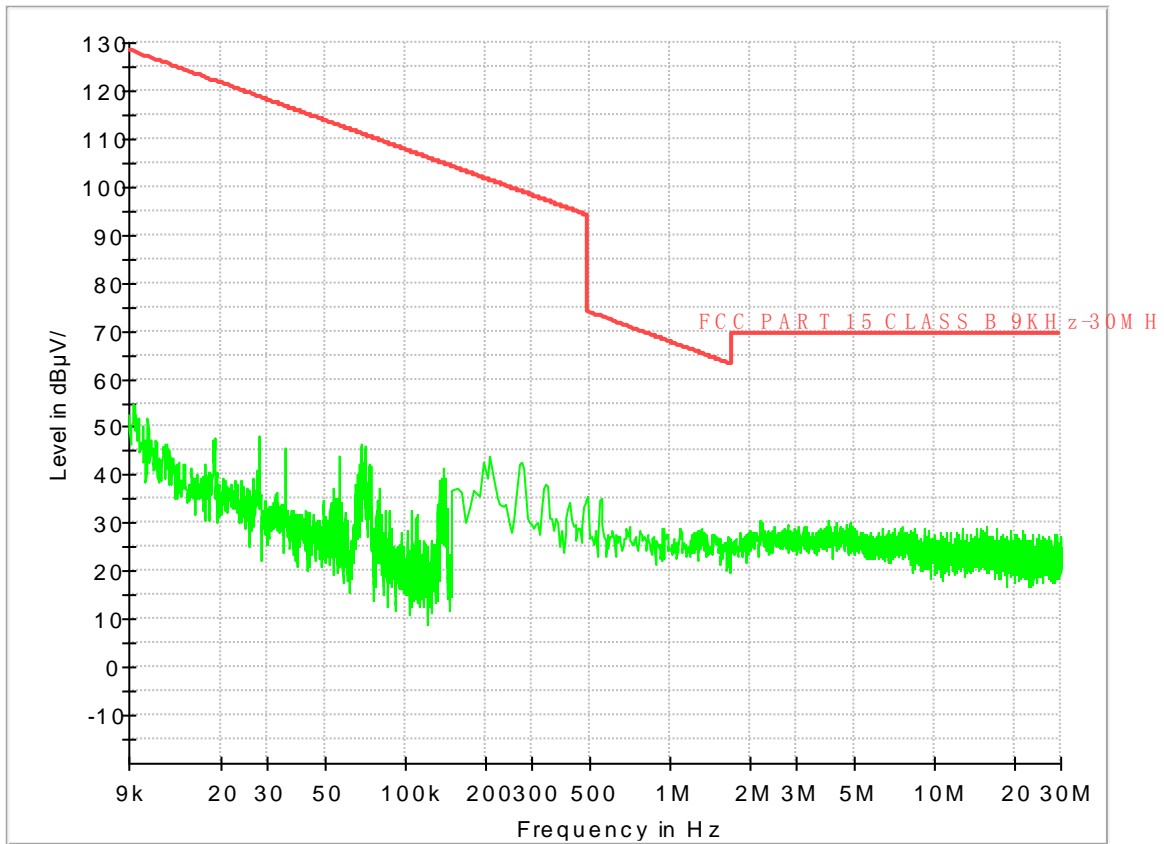
Copy of RSE-TX-DIRECTOR BELOW 1G_L



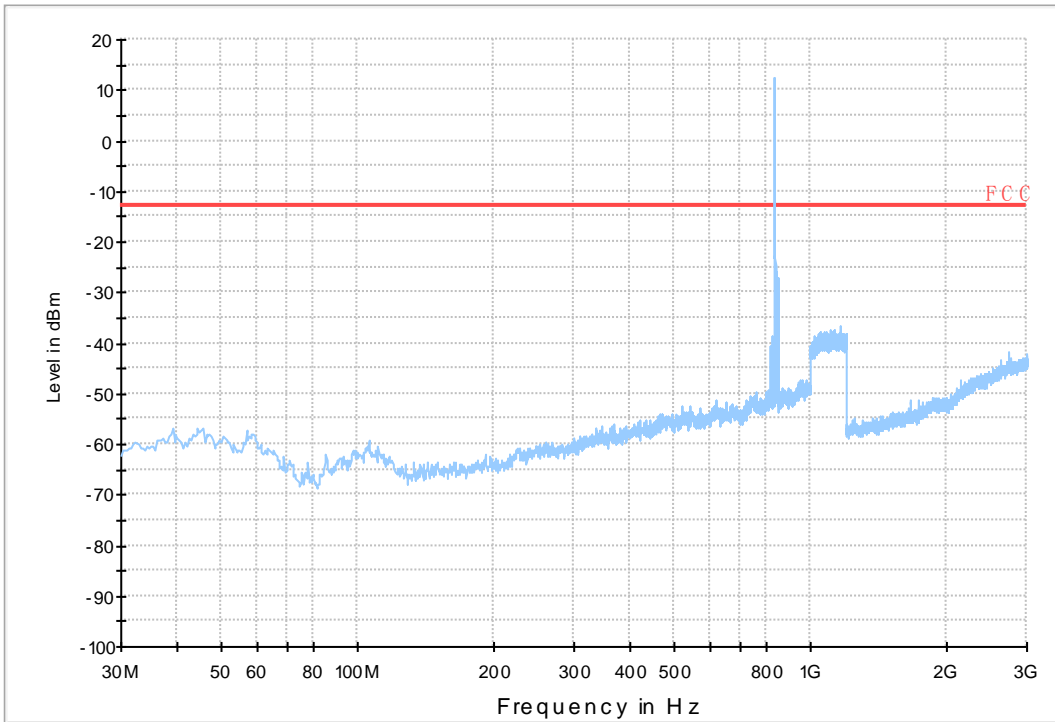
Copy of RSE-TX-DIRECTOR BELOW 1G_H



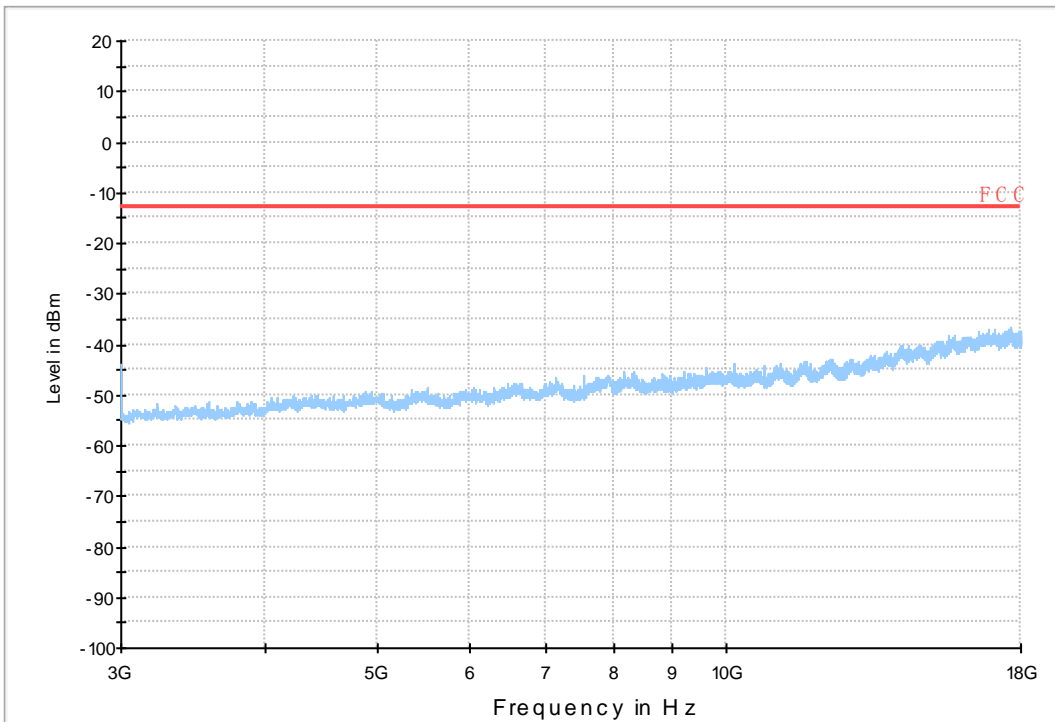
7.1.2.2 Test Bandwidth = 10



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
BAND5	LTE/TM1	1.4	LCH	TN	VL	-0.59	-0.00072	PASS
					VN	-4.94	-0.00599	PASS
					VH	17.78	0.02156	PASS
			MCH	TN	VL	-1.34	-0.0016	PASS
					VN	9.84	0.01176	PASS
					VH	-10.89	-0.01302	PASS
			HCH	TN	VL	5.79	0.00683	PASS
					VN	14.05	0.01656	PASS
					VH	13.18	0.01554	PASS
		3	LCH	TN	VL	1.80	0.00218	PASS
					VN	-0.33	-0.0004	PASS
					VH	-0.23	-0.00028	PASS
			MCH	TN	VL	-2.13	-0.00255	PASS
					VN	-1.66	-0.00198	PASS
					VH	-1.46	-0.00175	PASS
			HCH	TN	VL	-9.23	-0.01089	PASS
					VN	6.77	0.00799	PASS
					VH	-5.16	-0.00609	PASS
		5	LCH	TN	VL	-1.16	-0.0014	PASS
					VN	1.95	0.00236	PASS
					VH	0.33	0.0004	PASS
			MCH	TN	VL	-10.80	-0.01291	PASS
					VN	-11.90	-0.01423	PASS
					VH	-5.61	-0.00671	PASS
			HCH	TN	VL	2.80	0.00331	PASS
					VN	15.66	0.0185	PASS
					VH	1.03	0.00122	PASS
		10	LCH	TN	VL	1.09	0.00132	PASS
					VN	2.86	0.00346	PASS
					VH	1.34	0.00162	PASS
			MCH	TN	VL	3.76	0.00449	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					VN	10.13	0.01211	PASS		
					VH	-0.66	-0.00079	PASS		
					HCH	TN	VL	-3.36	-0.00398	PASS
							VN	-6.31	-0.00748	PASS
					VH	-3.60	-0.00427	PASS		
			LCH	TN	VL	1.79	0.00217	PASS		
					VN	-12.66	-0.01535	PASS		
					VH	9.14	0.01108	PASS		
			MCH	TN	VL	-13.72	-0.0164	PASS		
					VN	26.32	0.03146	PASS		
	VH	-2.76			-0.0033	PASS				
	HCH	TN	VL	-19.10	-0.02252	PASS				
			VN	16.02	0.01888	PASS				
			VH	118.69	0.13992	PASS				
	1.4	3	LCH	TN	VL	-0.59	-0.00071	PASS		
					VN	-3.03	-0.00367	PASS		
					VH	0.03	0.00004	PASS		
			MCH	TN	VL	-4.85	-0.0058	PASS		
					VN	-0.21	-0.00025	PASS		
					VH	-4.33	-0.00518	PASS		
		HCH	TN	VL	1.37	0.00162	PASS			
				VN	-2.96	-0.00349	PASS			
				VH	5.87	0.00693	PASS			
		5	LCH	TN	VL	-4.72	-0.00571	PASS		
					VN	-3.18	-0.00385	PASS		
					VH	-0.50	-0.0006	PASS		
	MCH		TN	VL	3.60	0.0043	PASS			
				VN	9.24	0.01105	PASS			
				VH	2.79	0.00334	PASS			
	HCH		TN	VL	-3.72	-0.00439	PASS			
				VN	-3.92	-0.00463	PASS			
				VH	1.13	0.00133	PASS			
	10	LCH	TN	VL	-7.20	-0.00869	PASS			
				VN	1.75	0.00211	PASS			
				VH	-3.69	-0.00445	PASS			
		MCH	TN	VL	23.40	0.02797	PASS			
				VN	8.90	0.01064	PASS			
				VH	24.48	0.02926	PASS			
	HCH	TN	VL	-1.52	-0.0018	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-0.54	-0.00064	PASS
					VH	1.19	0.00141	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	-30	LTE/TM1	1.4	LCH	VN	19.73	0.02392	PASS
				MCH	VN	5.32	0.00636	PASS
				HCH	VN	0.86	0.00101	PASS
			3	LCH	VN	-3.63	-0.0044	PASS
				MCH	VN	-0.27	-0.00032	PASS
				HCH	VN	0.64	0.00076	PASS
			5	LCH	VN	1.42	0.00172	PASS
				MCH	VN	1.04	0.00124	PASS
				HCH	VN	2.10	0.00248	PASS
		10	LCH	VN	-1.60	-0.00193	PASS	
			MCH	VN	0.62	0.00074	PASS	
			HCH	VN	-0.94	-0.00111	PASS	
		LTE/TM2	1.4	LCH	VN	6.81	0.00826	PASS
				MCH	VN	-10.14	-0.01212	PASS
				HCH	VN	9.13	0.01076	PASS
			3	LCH	VN	-0.77	-0.00093	PASS
				MCH	VN	3.13	0.00374	PASS
				HCH	VN	0.37	0.00044	PASS
	5		LCH	VN	-0.24	-0.00029	PASS	
			MCH	VN	-8.73	-0.01044	PASS	
			HCH	VN	2.17	0.00256	PASS	
	10	LCH	VN	0.09	0.00011	PASS		
		MCH	VN	-9.63	-0.01151	PASS		
		HCH	VN	-3.38	-0.004	PASS		
	-20	LTE/TM1	1.4	LCH	VN	18.98	0.02301	PASS
				MCH	VN	2.46	0.00294	PASS
				HCH	VN	-74.97	-0.08838	PASS
3			LCH	VN	-10.36	-0.01255	PASS	
			MCH	VN	4.61	0.00551	PASS	
			HCH	VN	3.81	0.0045	PASS	
5	LCH	VN	4.89	0.00592	PASS			
	MCH	VN	1.66	0.00198	PASS			



			10	HCH	VN	1.23	0.00145	PASS	
				LCH	VN	1.33	0.0016	PASS	
				MCH	VN	-1.32	-0.00158	PASS	
				HCH	VN	0.27	0.00032	PASS	
		LTE/TM2	1.4	LCH	VN	-30.36	-0.03681	PASS	
				MCH	VN	0.50	0.0006	PASS	
				HCH	VN	-14.35	-0.01692	PASS	
			3	LCH	VN	1.67	0.00202	PASS	
				MCH	VN	4.62	0.00552	PASS	
				HCH	VN	14.09	0.01663	PASS	
			5	LCH	VN	0.24	0.00029	PASS	
				MCH	VN	10.77	0.01288	PASS	
				HCH	VN	-1.42	-0.00168	PASS	
			10	LCH	VN	-9.17	-0.01106	PASS	
				MCH	VN	7.15	0.00855	PASS	
				HCH	VN	-4.35	-0.00515	PASS	
		-10	LTE/TM1	1.4	LCH	VN	13.05	0.01582	PASS
					MCH	VN	38.47	0.04599	PASS
	HCH				VN	46.21	0.05447	PASS	
	3			LCH	VN	-3.82	-0.00463	PASS	
				MCH	VN	1.76	0.0021	PASS	
				HCH	VN	-1.79	-0.00211	PASS	
	5			LCH	VN	-2.75	-0.00333	PASS	
				MCH	VN	11.10	0.01327	PASS	
				HCH	VN	1.54	0.00182	PASS	
	10		LCH	VN	7.22	0.00871	PASS		
			MCH	VN	1.90	0.00227	PASS		
			HCH	VN	-1.73	-0.00205	PASS		
	LTE/TM2		1.4	LCH	VN	-16.19	-0.01963	PASS	
				MCH	VN	-0.13	-0.00016	PASS	
				HCH	VN	-7.48	-0.00882	PASS	
			3	LCH	VN	-5.59	-0.00677	PASS	
				MCH	VN	2.42	0.00289	PASS	
				HCH	VN	-3.69	-0.00435	PASS	
		5	LCH	VN	0.87	0.00105	PASS		
			MCH	VN	9.24	0.01105	PASS		
			HCH	VN	0.14	0.00017	PASS		
	10	LCH	VN	-3.83	-0.00462	PASS			
		MCH	VN	5.08	0.00607	PASS			
		HCH	VN	-4.06	-0.00481	PASS			
	0	LTE/TM1	1.4	LCH	VN	14.00	0.01698	PASS	
				MCH	VN	-4.11	-0.00491	PASS	
HCH				VN	11.37	0.0134	PASS		



10	LTE/TM2	3	LCH	VN	-1.73	-0.0021	PASS	
			MCH	VN	-0.72	-0.00086	PASS	
			HCH	VN	-0.53	-0.00063	PASS	
		5	LCH	VN	6.94	0.0084	PASS	
			MCH	VN	5.99	0.00716	PASS	
			HCH	VN	-2.06	-0.00243	PASS	
		10	LCH	VN	-4.59	-0.00554	PASS	
			MCH	VN	5.48	0.00655	PASS	
			HCH	VN	-2.56	-0.00303	PASS	
		LTE/TM2	1.4	LCH	VN	14.02	0.017	PASS
				MCH	VN	42.19	0.05044	PASS
				HCH	VN	-4.73	-0.00558	PASS
			3	LCH	VN	-5.31	-0.00643	PASS
				MCH	VN	-7.11	-0.0085	PASS
				HCH	VN	2.95	0.00348	PASS
			5	LCH	VN	4.09	0.00495	PASS
				MCH	VN	2.63	0.00314	PASS
				HCH	VN	1.50	0.00177	PASS
	10		LCH	VN	5.12	0.00618	PASS	
			MCH	VN	1.63	0.00195	PASS	
			HCH	VN	-4.02	-0.00476	PASS	
	LTE/TM1	1.4	LCH	VN	-18.45	-0.02237	PASS	
			MCH	VN	-5.01	-0.00599	PASS	
			HCH	VN	4.94	0.00582	PASS	
		3	LCH	VN	1.75	0.00212	PASS	
			MCH	VN	0.82	0.00098	PASS	
			HCH	VN	3.22	0.0038	PASS	
		5	LCH	VN	2.92	0.00353	PASS	
			MCH	VN	-1.89	-0.00226	PASS	
			HCH	VN	2.49	0.00294	PASS	
		10	LCH	VN	9.76	0.01177	PASS	
			MCH	VN	-4.35	-0.0052	PASS	
			HCH	VN	-1.06	-0.00126	PASS	
		LTE/TM2	1.4	LCH	VN	-8.34	-0.01011	PASS
				MCH	VN	-2.99	-0.00357	PASS
				HCH	VN	3.12	0.00368	PASS
3			LCH	VN	-4.35	-0.00527	PASS	
			MCH	VN	-4.86	-0.00581	PASS	
			HCH	VN	-3.18	-0.00375	PASS	
5	LCH		VN	0.19	0.00023	PASS		
	MCH		VN	333.34	0.39849	PASS		
	HCH		VN	-0.33	-0.00039	PASS		
10	LCH		VN	6.54	0.00789	PASS		



	20	LTE/TM1	1.4	MCH	VN	1.60	0.00191	PASS
				HCH	VN	-1.63	-0.00193	PASS
				LCH	VN	-2.15	-0.00261	PASS
			3	MCH	VN	-17.61	-0.02105	PASS
				HCH	VN	2.25	0.00265	PASS
				LCH	VN	-1.60	-0.00194	PASS
			5	MCH	VN	0.53	0.00063	PASS
				HCH	VN	-2.49	-0.00294	PASS
				LCH	VN	0.64	0.00077	PASS
		10	MCH	VN	22.63	0.02705	PASS	
			HCH	VN	1.96	0.00232	PASS	
			LCH	VN	-2.57	-0.0031	PASS	
		LTE/TM2	1.4	MCH	VN	-0.03	-0.00004	PASS
				HCH	VN	-2.53	-0.003	PASS
				LCH	VN	7.80	0.00946	PASS
			3	MCH	VN	12.04	0.01439	PASS
				HCH	VN	31.46	0.03709	PASS
				LCH	VN	0.94	0.00114	PASS
	5		MCH	VN	-5.05	-0.00604	PASS	
			HCH	VN	-0.43	-0.00051	PASS	
			LCH	VN	1.90	0.0023	PASS	
	10	MCH	VN	29.41	0.03516	PASS		
		HCH	VN	-0.37	-0.00044	PASS		
		LCH	VN	-0.89	-0.00107	PASS		
	30	LTE/TM1	1.4	MCH	VN	-0.06	-0.00007	PASS
				HCH	VN	-3.40	-0.00403	PASS
				LCH	VN	-4.92	-0.00597	PASS
			3	MCH	VN	-6.62	-0.00791	PASS
				HCH	VN	9.68	0.01141	PASS
				LCH	VN	2.72	0.00329	PASS
5		MCH	VN	1.30	0.00155	PASS		
		HCH	VN	-0.51	-0.0006	PASS		
		LCH	VN	0.44	0.00053	PASS		
10		MCH	VN	6.52	0.00779	PASS		
		HCH	VN	-3.22	-0.0038	PASS		
		LCH	VN	-3.49	-0.00421	PASS		
LTE/TM2	1.4	MCH	VN	2.73	0.00326	PASS		
		HCH	VN	-7.93	-0.0094	PASS		
		LCH	VN	-2.68	-0.00325	PASS		
	3	MCH	VN	12.52	0.01497	PASS		
		HCH	VN	-3.36	-0.00396	PASS		
		LCH	VN	8.20	0.00993	PASS		
MCH	VN	-0.40	-0.00048	PASS				



	40	LTE/TM1	5	HCH	VN	-1.04	-0.00123	PASS
				LCH	VN	1.27	0.00154	PASS
				MCH	VN	9.81	0.01173	PASS
			10	HCH	VN	-0.16	-0.00019	PASS
				LCH	VN	-6.24	-0.00753	PASS
				MCH	VN	8.34	0.00997	PASS
		LTE/TM2	1.4	HCH	VN	2.68	0.00318	PASS
				LCH	VN	6.52	0.00791	PASS
				MCH	VN	7.32	0.00875	PASS
			3	HCH	VN	0.31	0.00037	PASS
				LCH	VN	0.23	0.00028	PASS
				MCH	VN	-0.34	-0.00041	PASS
	5	HCH	VN	4.62	0.00545	PASS		
		LCH	VN	-0.37	-0.00045	PASS		
		MCH	VN	-68.49	-0.08188	PASS		
	10	HCH	VN	0.33	0.00039	PASS		
		LCH	VN	-2.10	-0.00253	PASS		
		MCH	VN	-5.54	-0.00662	PASS		
	50	LTE/TM1	1.4	HCH	VN	-3.75	-0.00444	PASS
				LCH	VN	-10.37	-0.01257	PASS
				MCH	VN	48.14	0.05755	PASS
			3	HCH	VN	-3.13	-0.00369	PASS
				LCH	VN	-0.03	-0.00004	PASS
				MCH	VN	0.62	0.00074	PASS
		5	HCH	VN	7.54	0.0089	PASS	
			LCH	VN	3.18	0.00385	PASS	
			MCH	VN	34.20	0.04088	PASS	
		10	HCH	VN	1.83	0.00216	PASS	
			LCH	VN	-5.85	-0.00706	PASS	
			MCH	VN	-11.46	-0.0137	PASS	
LTE/TM2	1.4	HCH	VN	-4.72	-0.00559	PASS		
		LCH	VN	-4.56	-0.00553	PASS		
		MCH	VN	5.26	0.00629	PASS		
	3	HCH	VN	4.55	0.00536	PASS		
		LCH	VN	2.12	0.00257	PASS		
		MCH	VN	-2.57	-0.00307	PASS		
5	HCH	VN	-2.63	-0.0031	PASS			
	LCH	VN	1.47	0.00178	PASS			
	MCH	VN	31.50	0.03766	PASS			
10	HCH	VN	-14.99	-0.01771	PASS			
	LCH	VN	-2.86	-0.00345	PASS			
	MCH	VN	-6.72	-0.00803	PASS			
			HCH	VN	6.11	0.00724	PASS	



		LTE/TM2	1.4	LCH	VN	-3.15	-0.00382	PASS
				MCH	VN	32.27	0.03858	PASS
				HCH	VN	-7.77	-0.00916	PASS
			3	LCH	VN	4.59	0.00556	PASS
				MCH	VN	-4.73	-0.00565	PASS
				HCH	VN	0.41	0.00048	PASS
			5	LCH	VN	-0.59	-0.00071	PASS
				MCH	VN	32.26	0.03857	PASS
				HCH	VN	1.59	0.00188	PASS
			10	LCH	VN	-1.16	-0.0014	PASS
				MCH	VN	9.83	0.01175	PASS
				HCH	VN	-1.49	-0.00177	PASS

END