

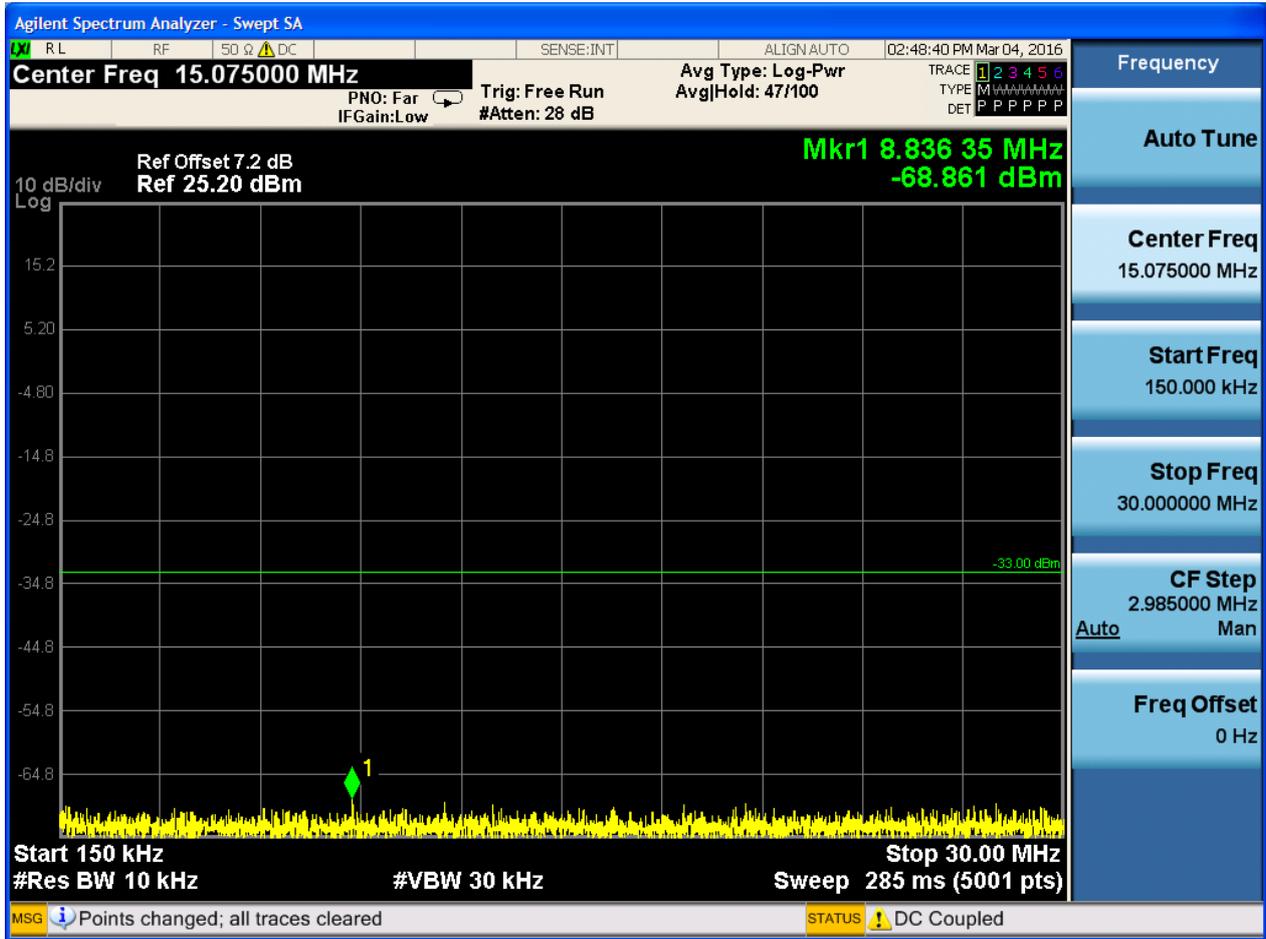


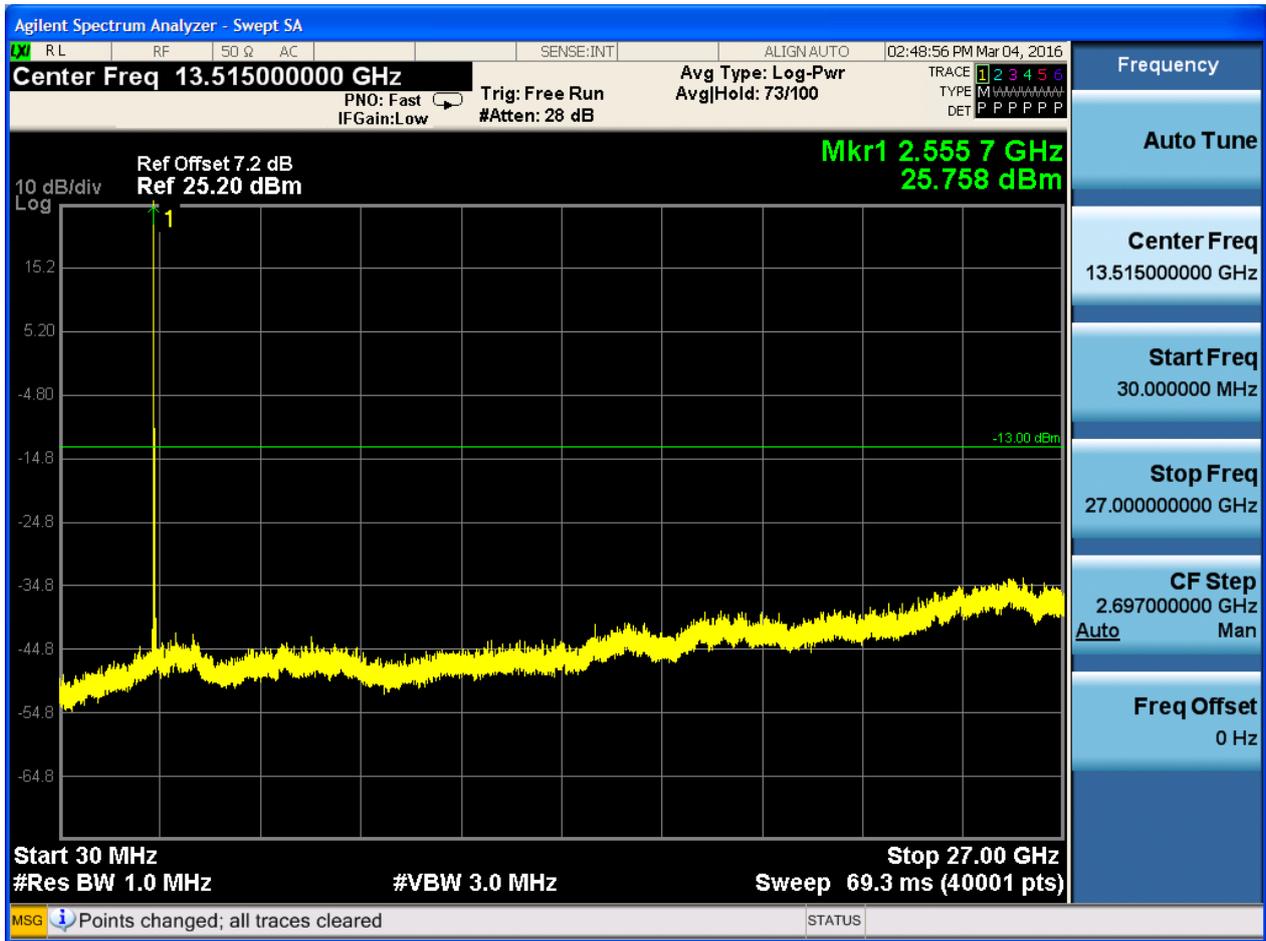
6.1.1.1.3 Test Bandwidth = 15

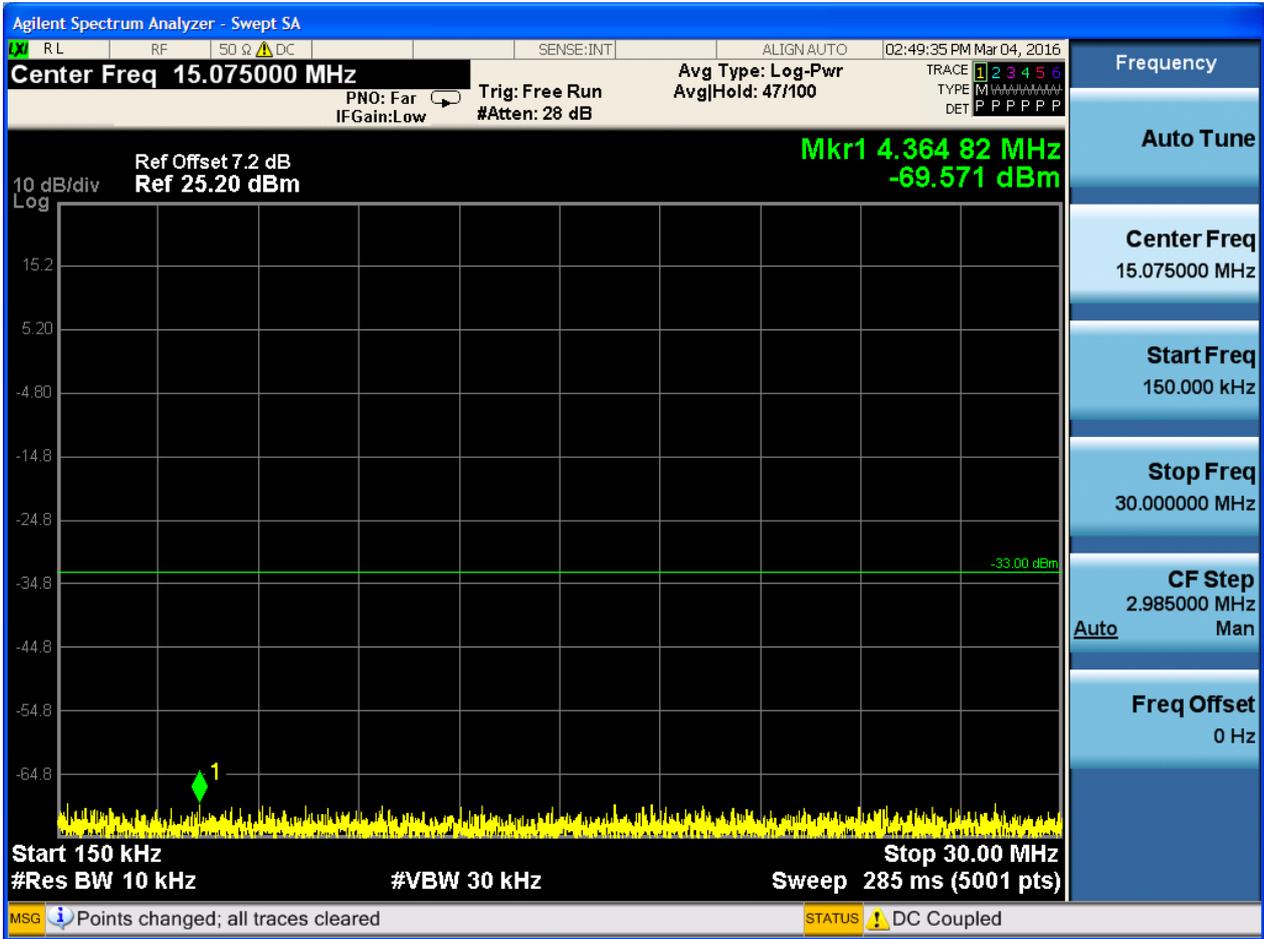
6.1.1.1.3.1 Test Channel = LCH

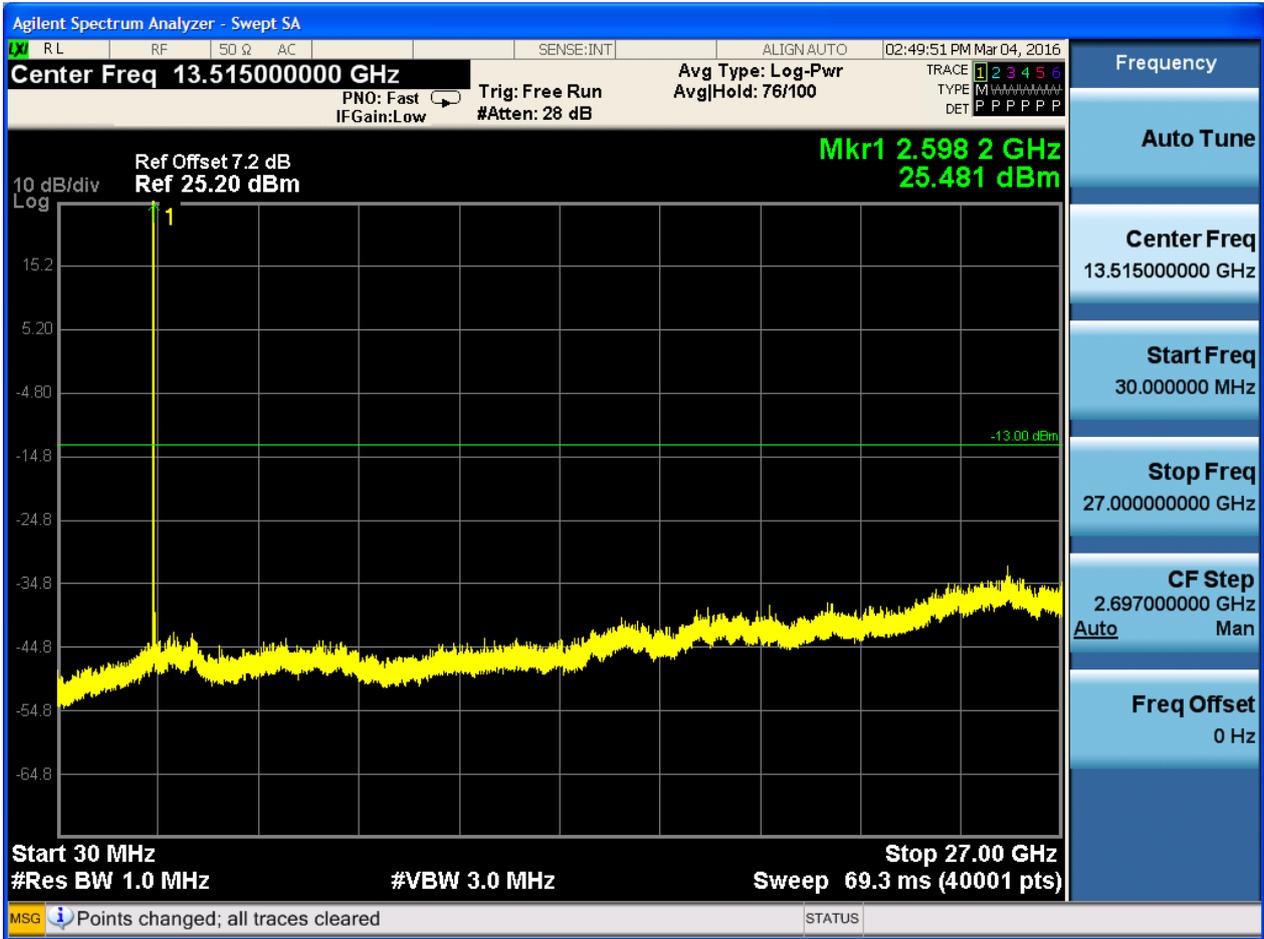
6.1.1.1.3.1.1 Test RB = RB1#0











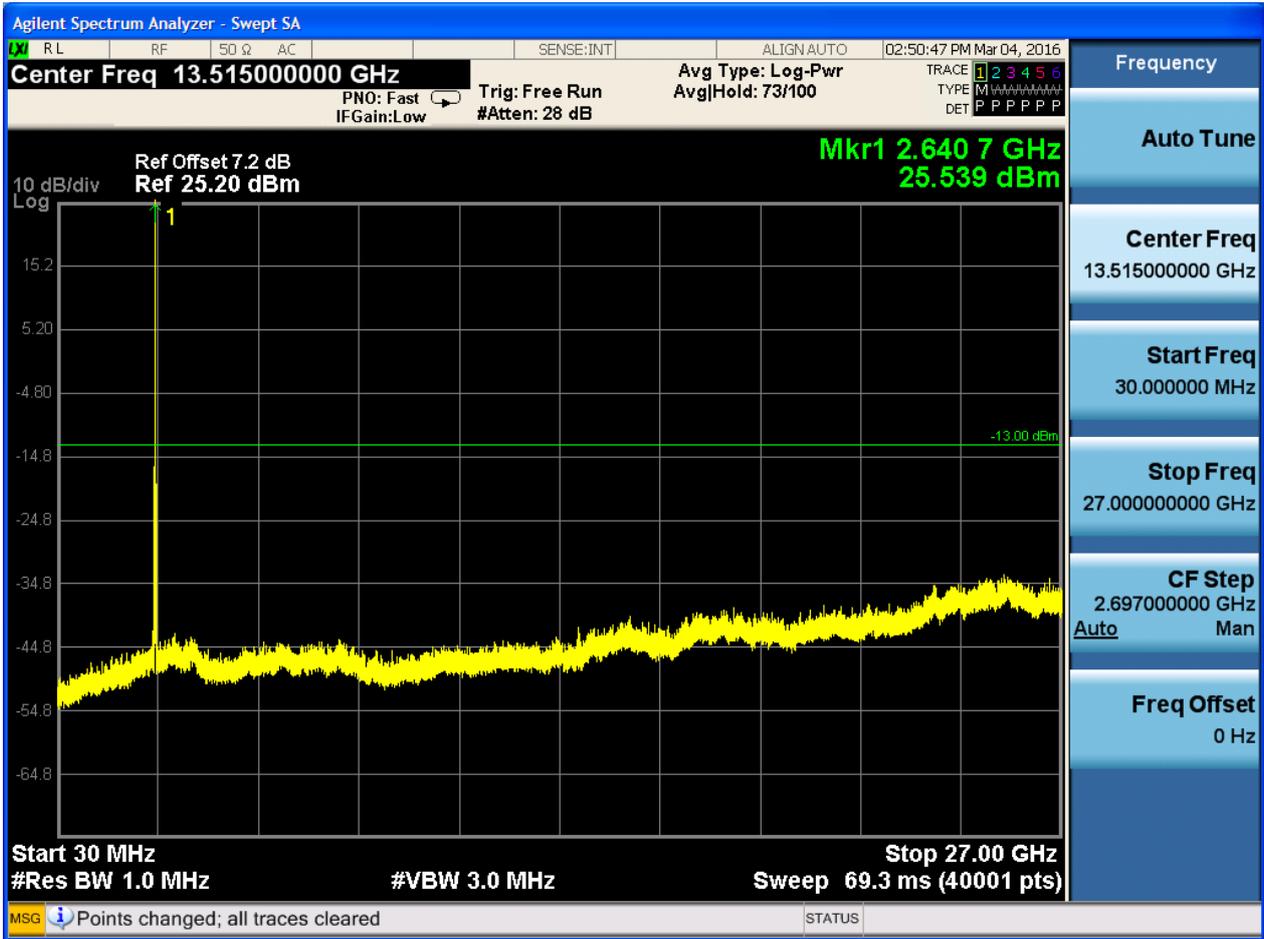


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







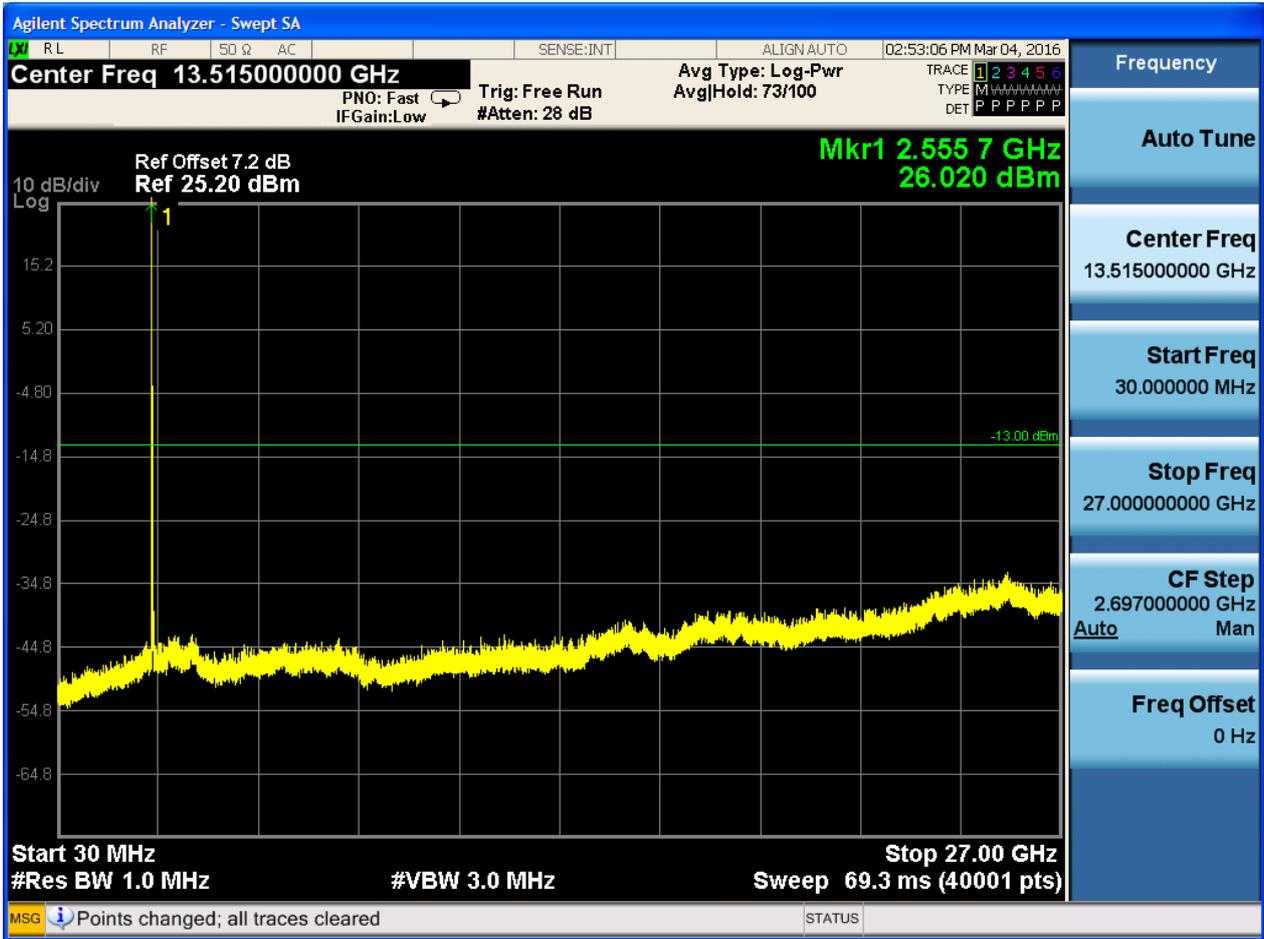


6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

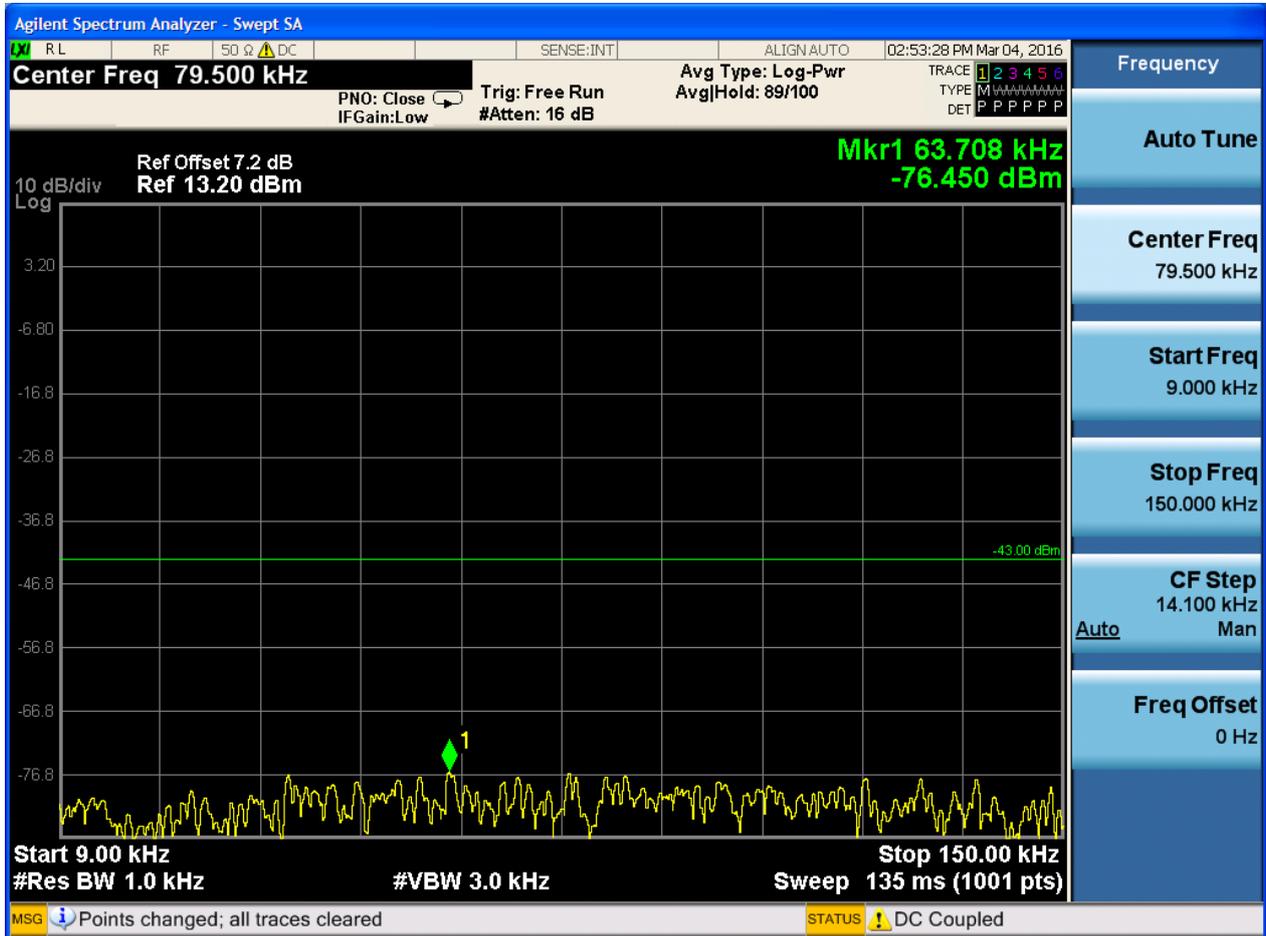




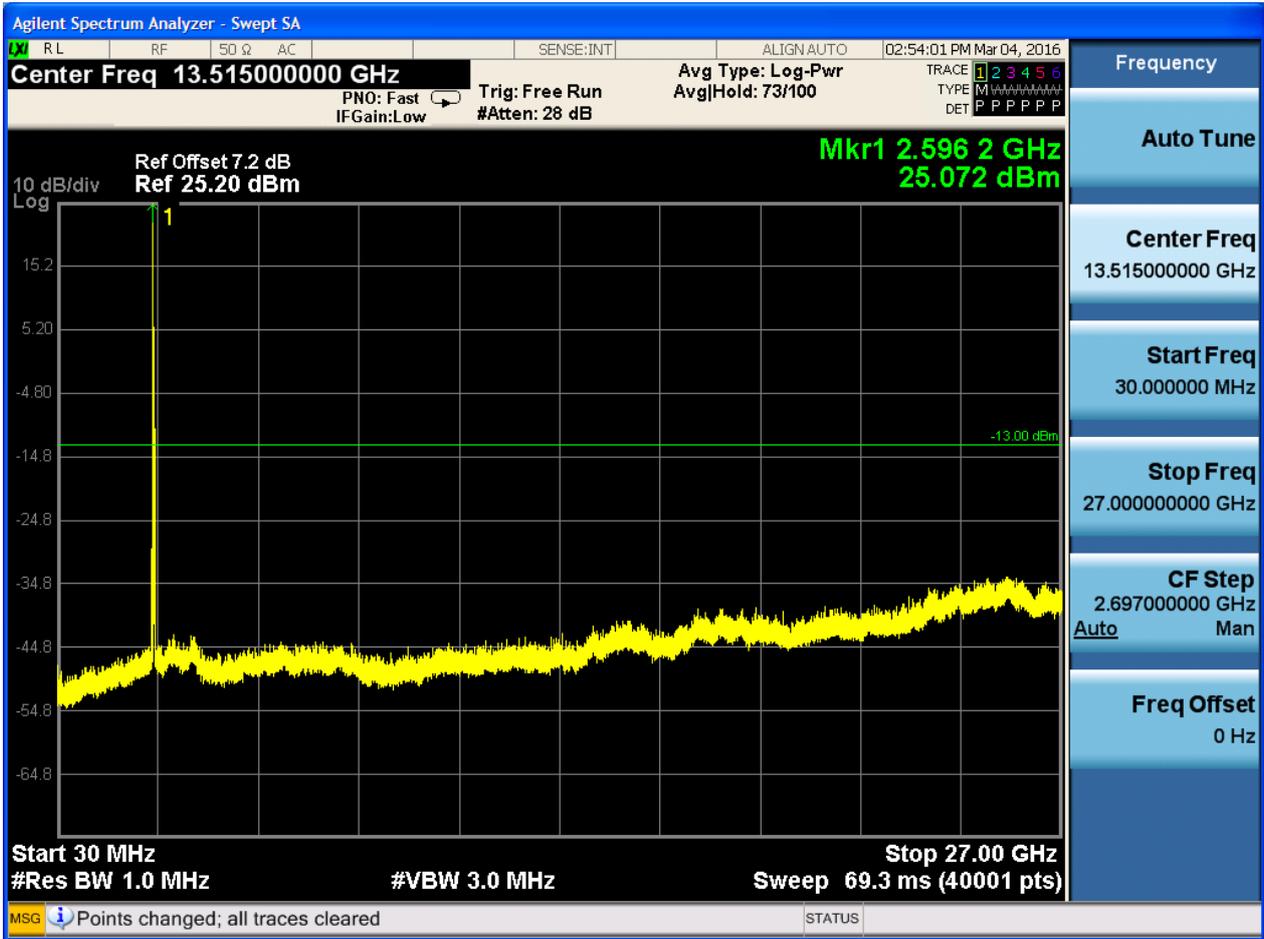


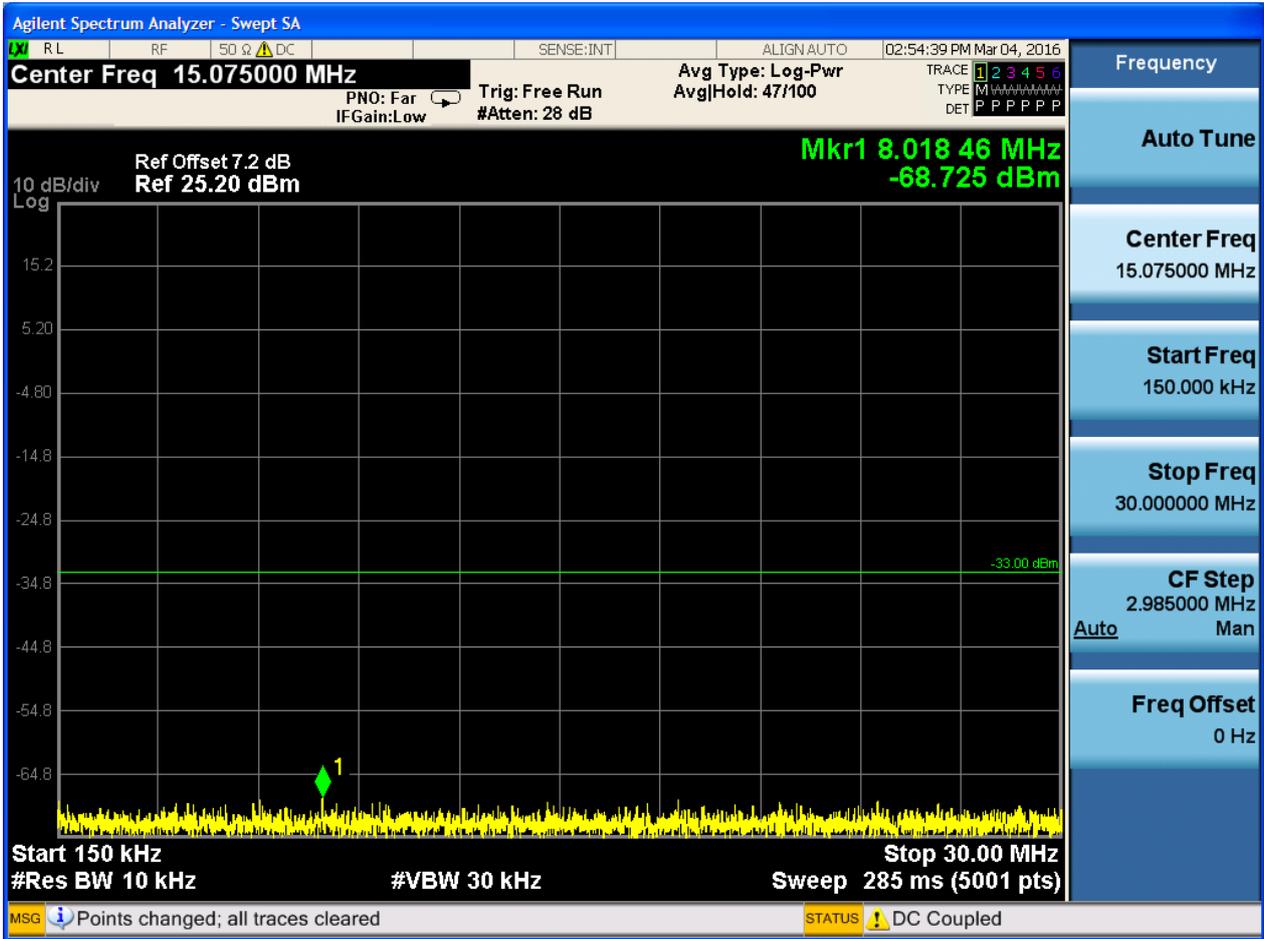
6.1.1.1.4.2 Test Channel = MCH

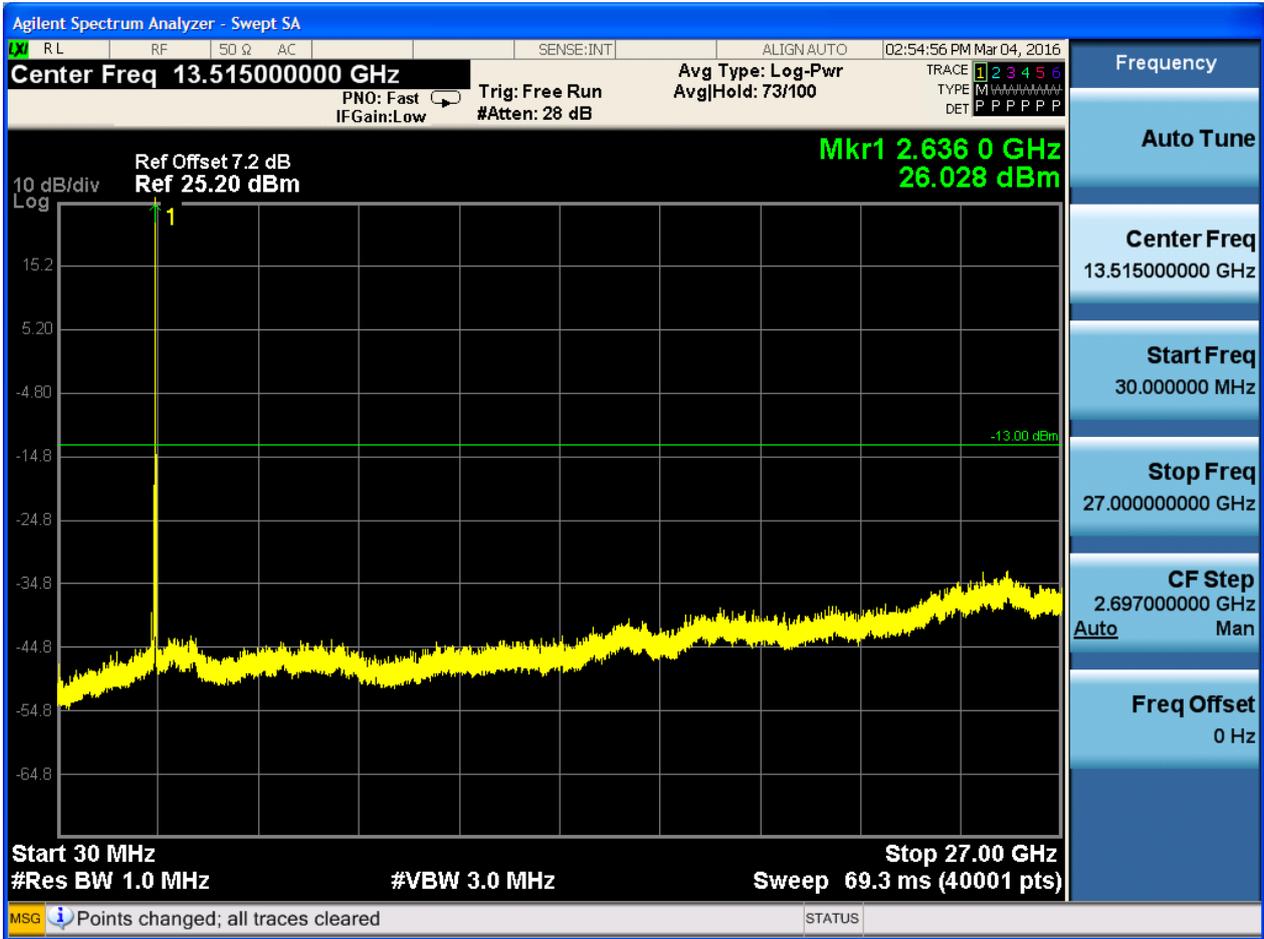
6.1.1.1.4.2.1 Test RB = RB1#0











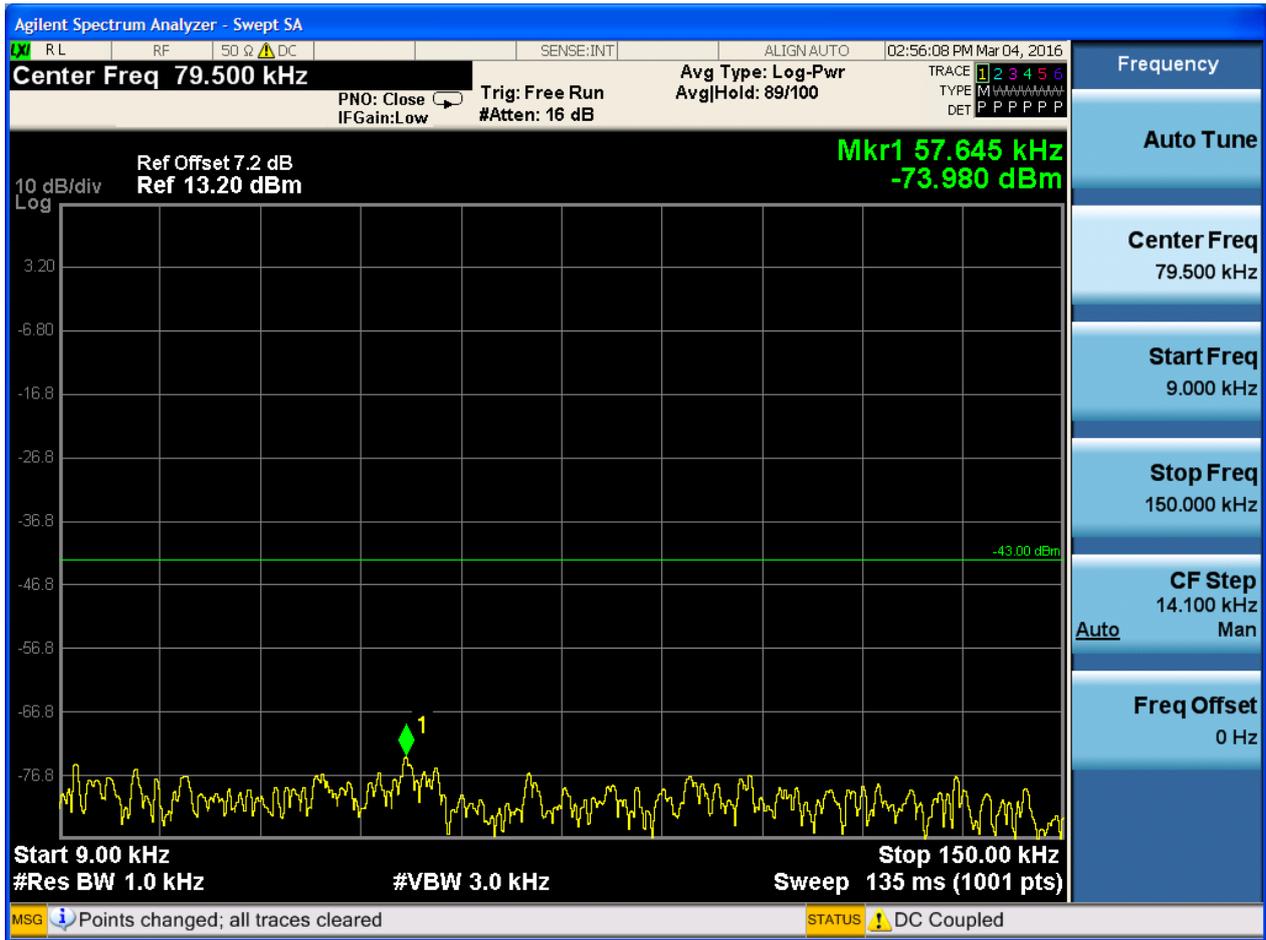


6.1.1.2 Test Mode = LTE/TM2

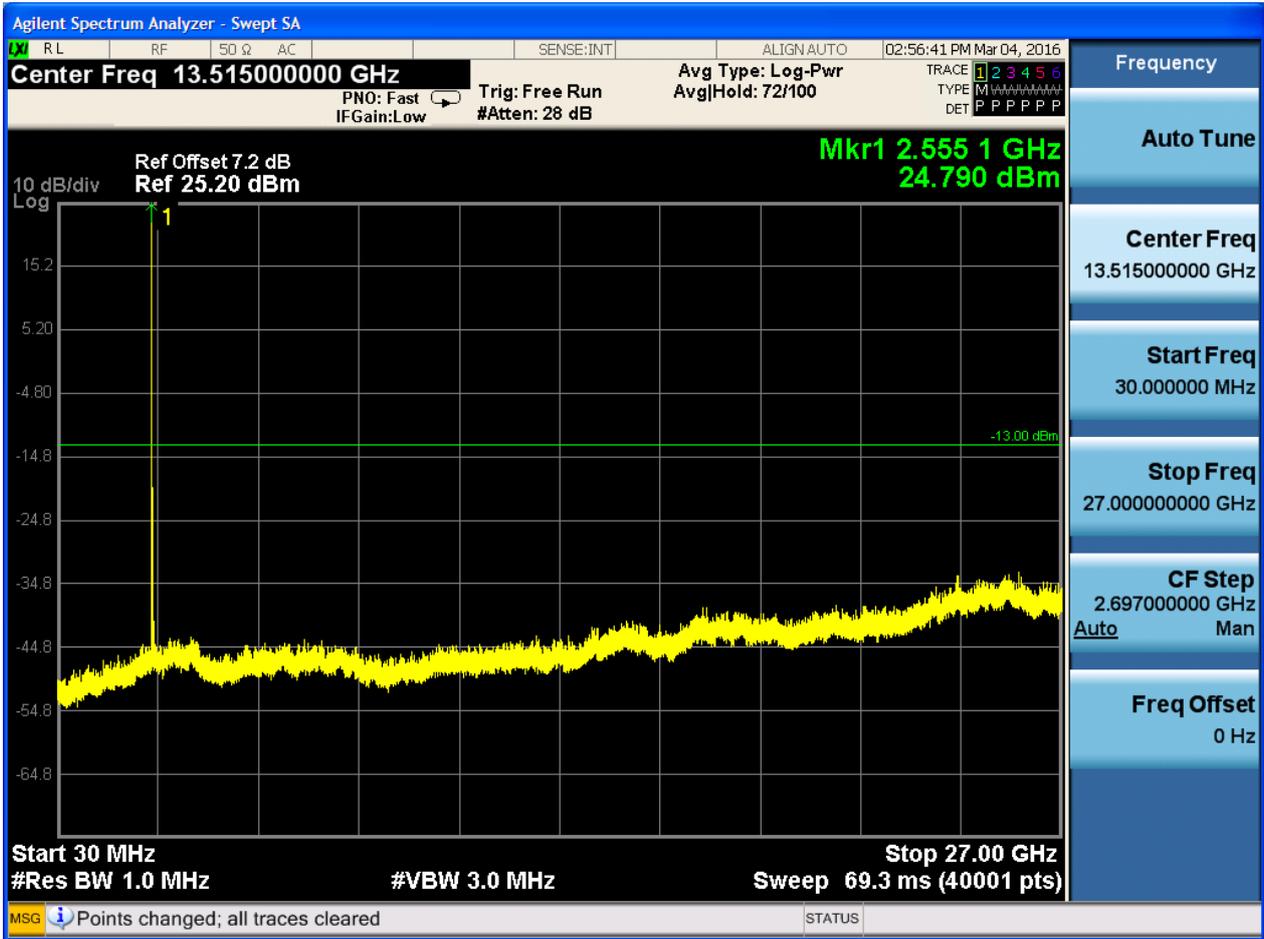
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

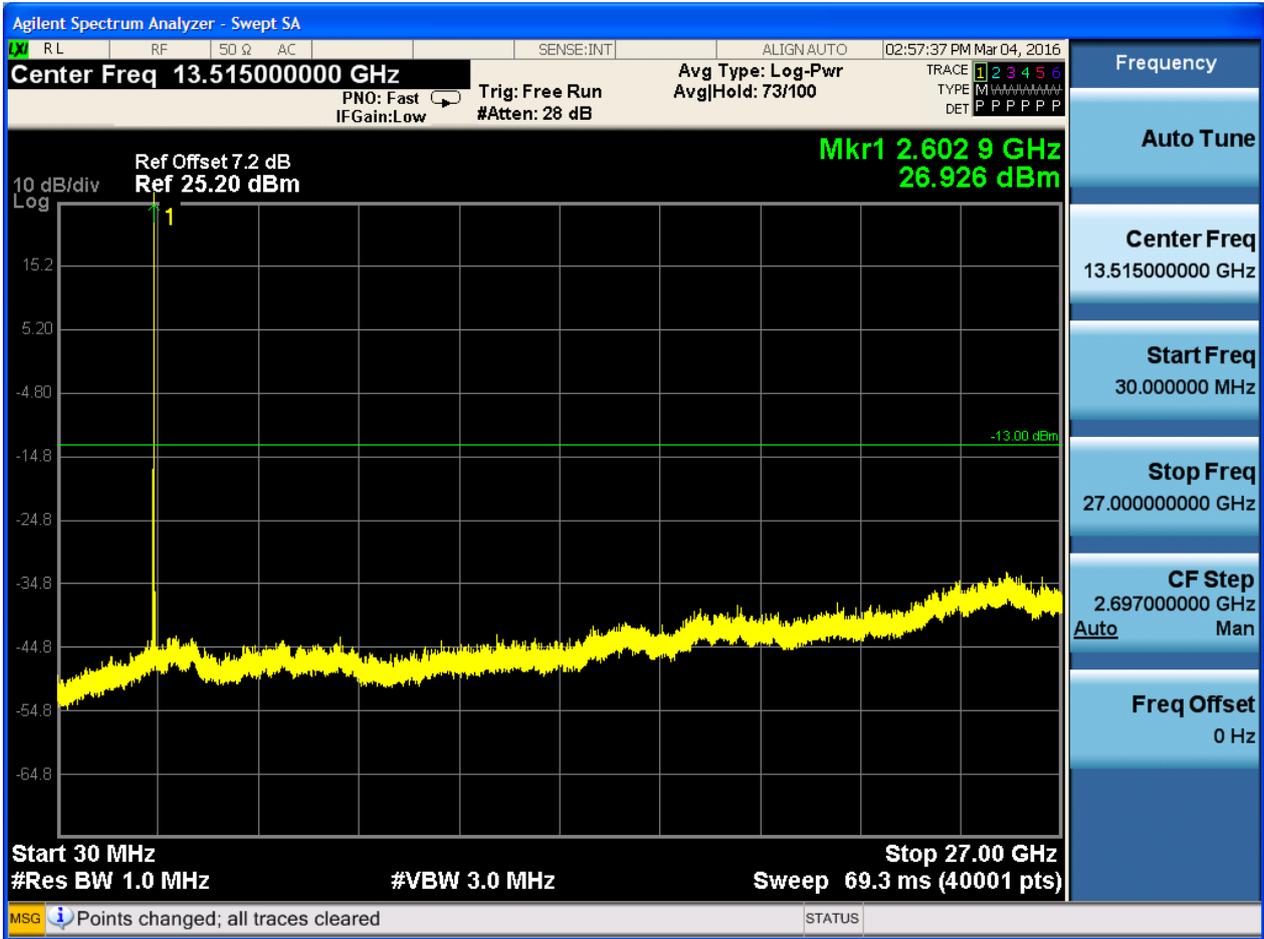
6.1.1.2.1.1.1 Test RB = RB1#0









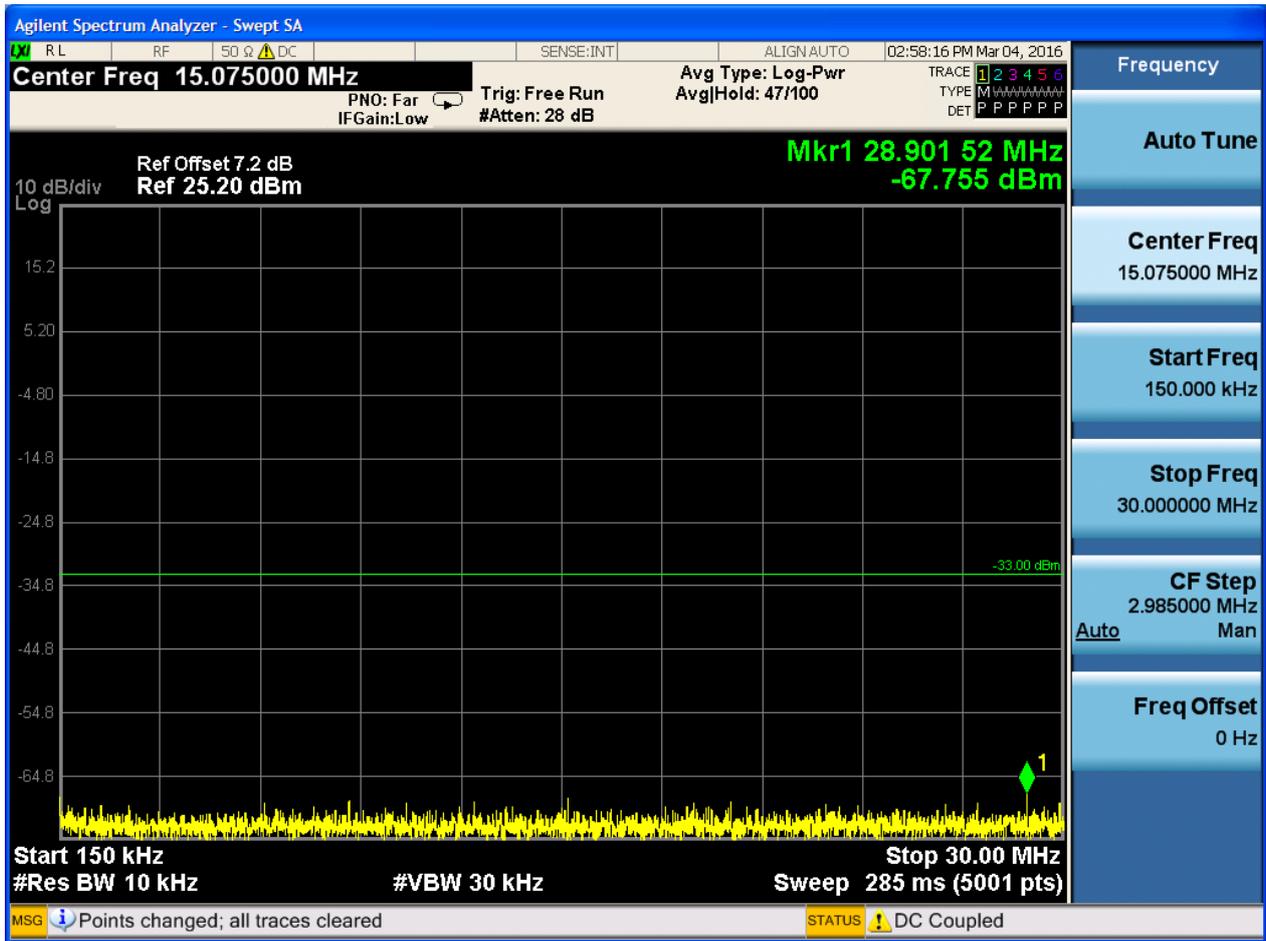


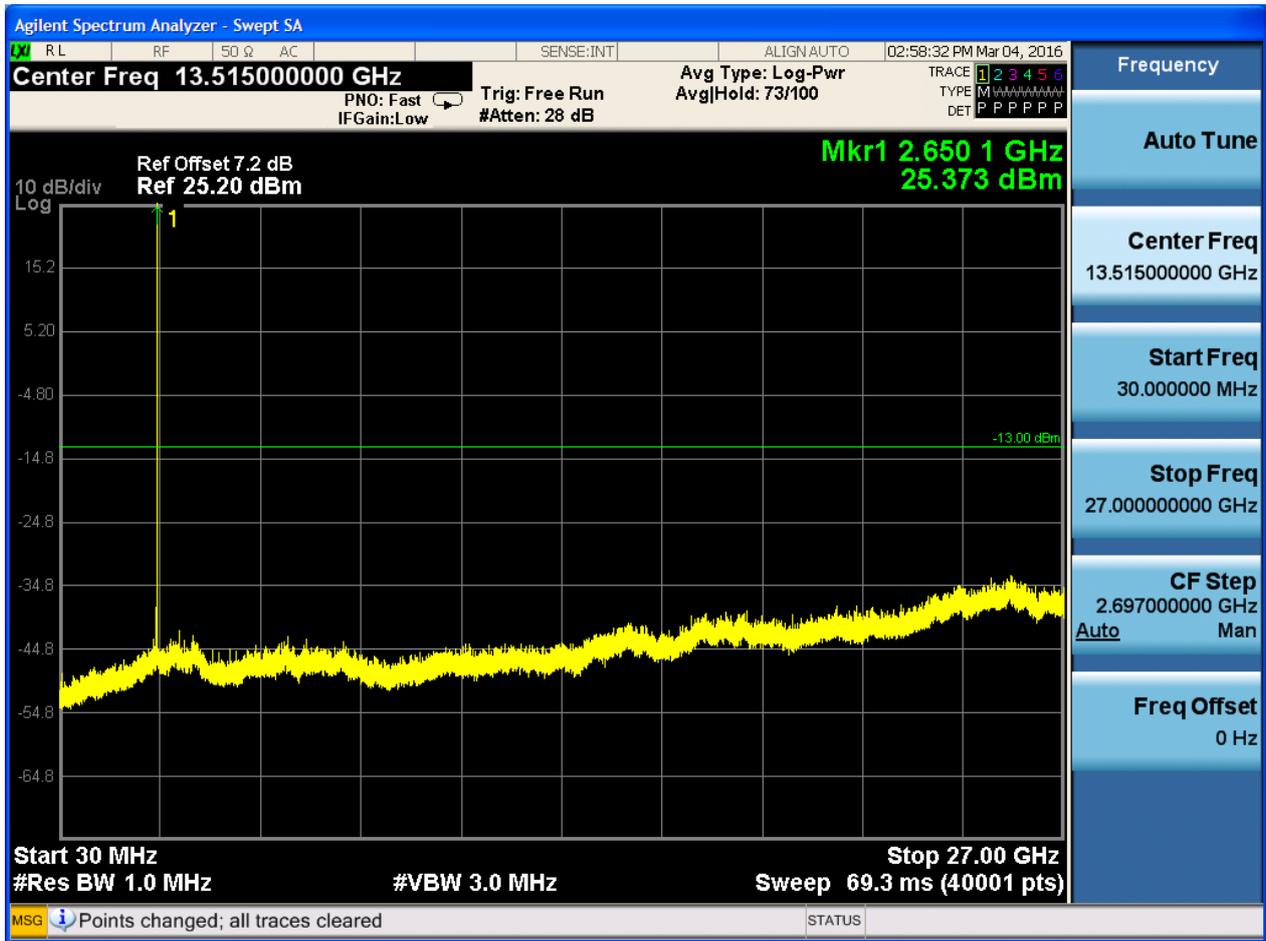


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





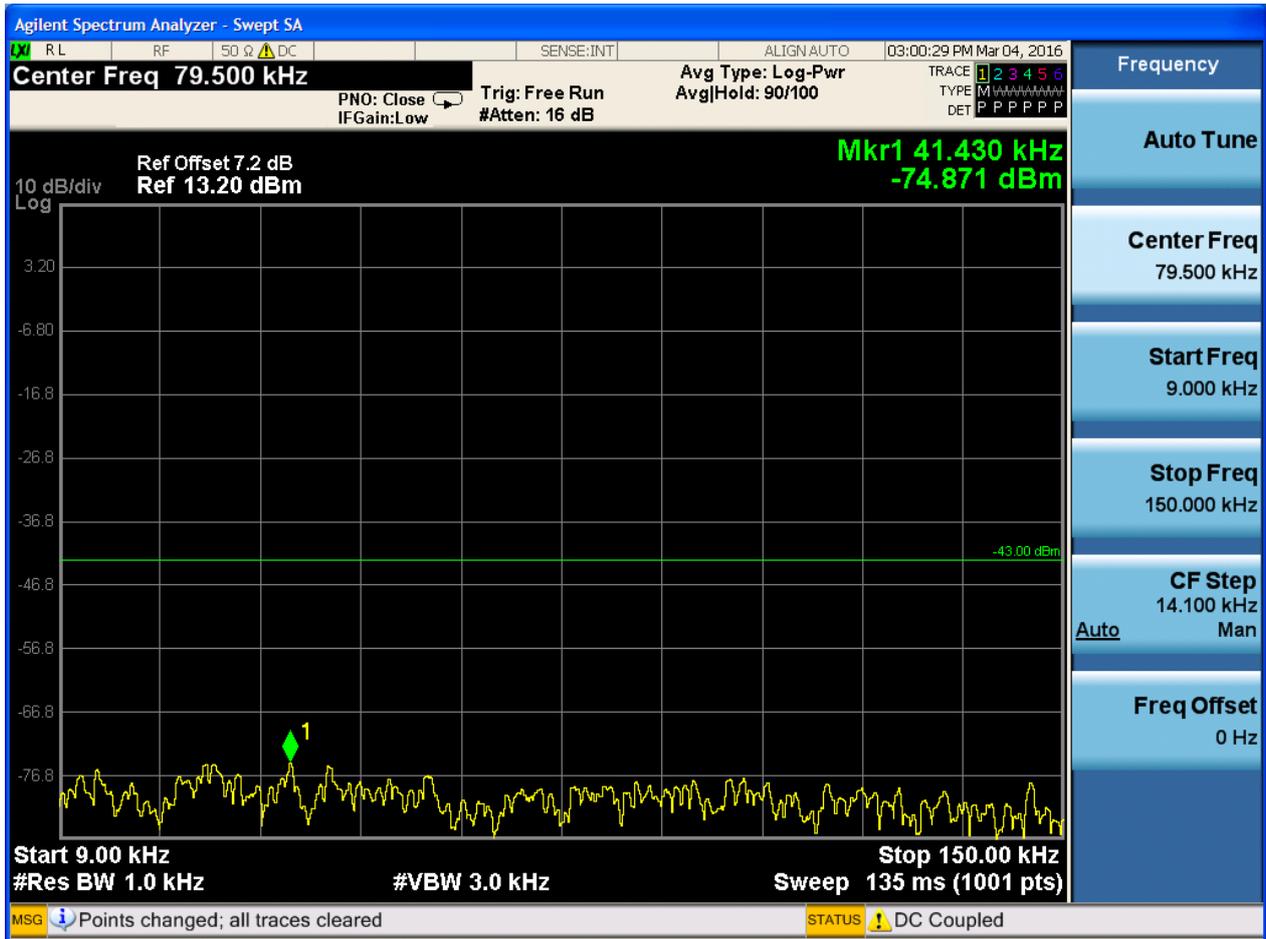




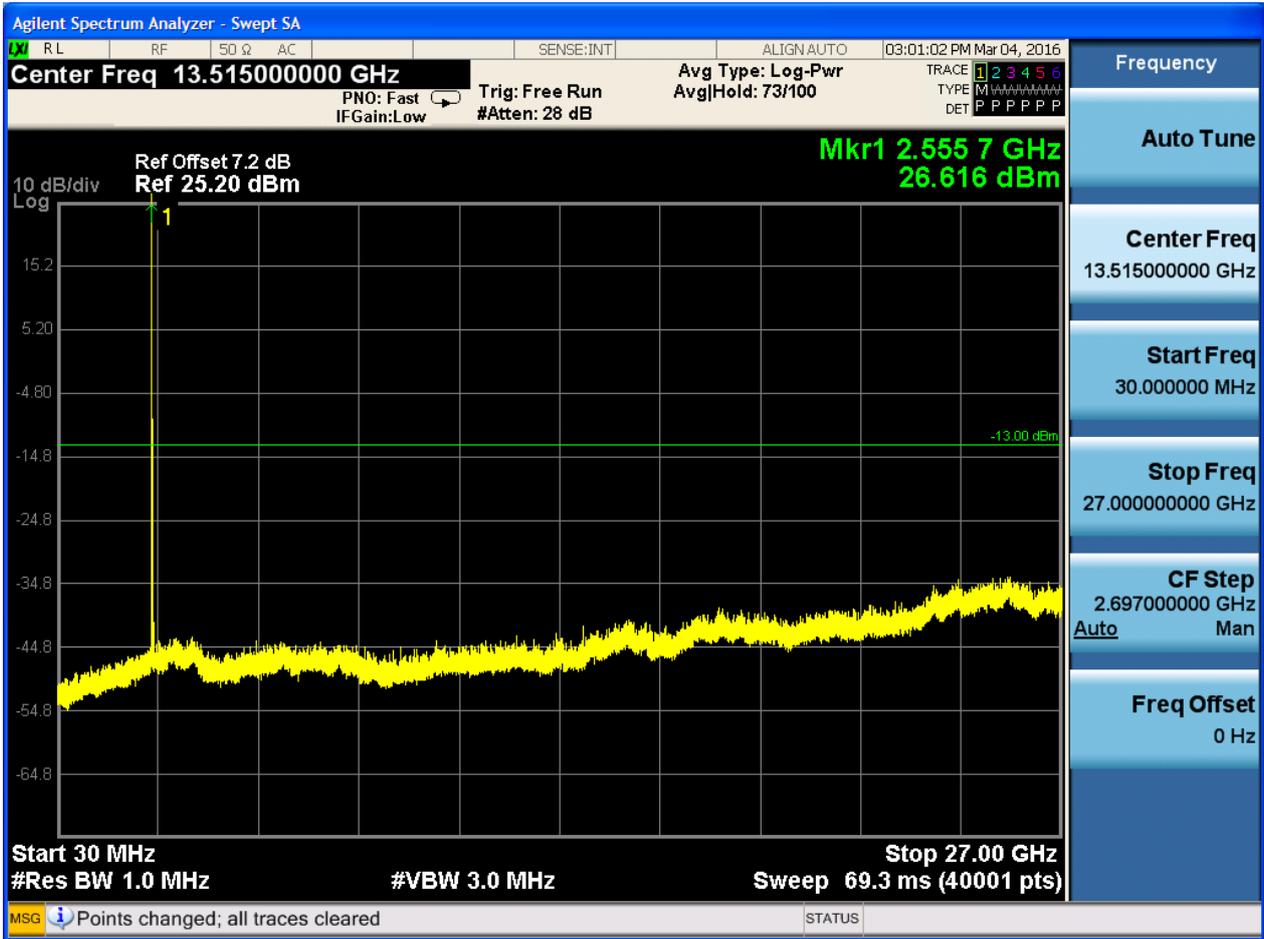
6.1.1.2.2 Test Bandwidth = 10

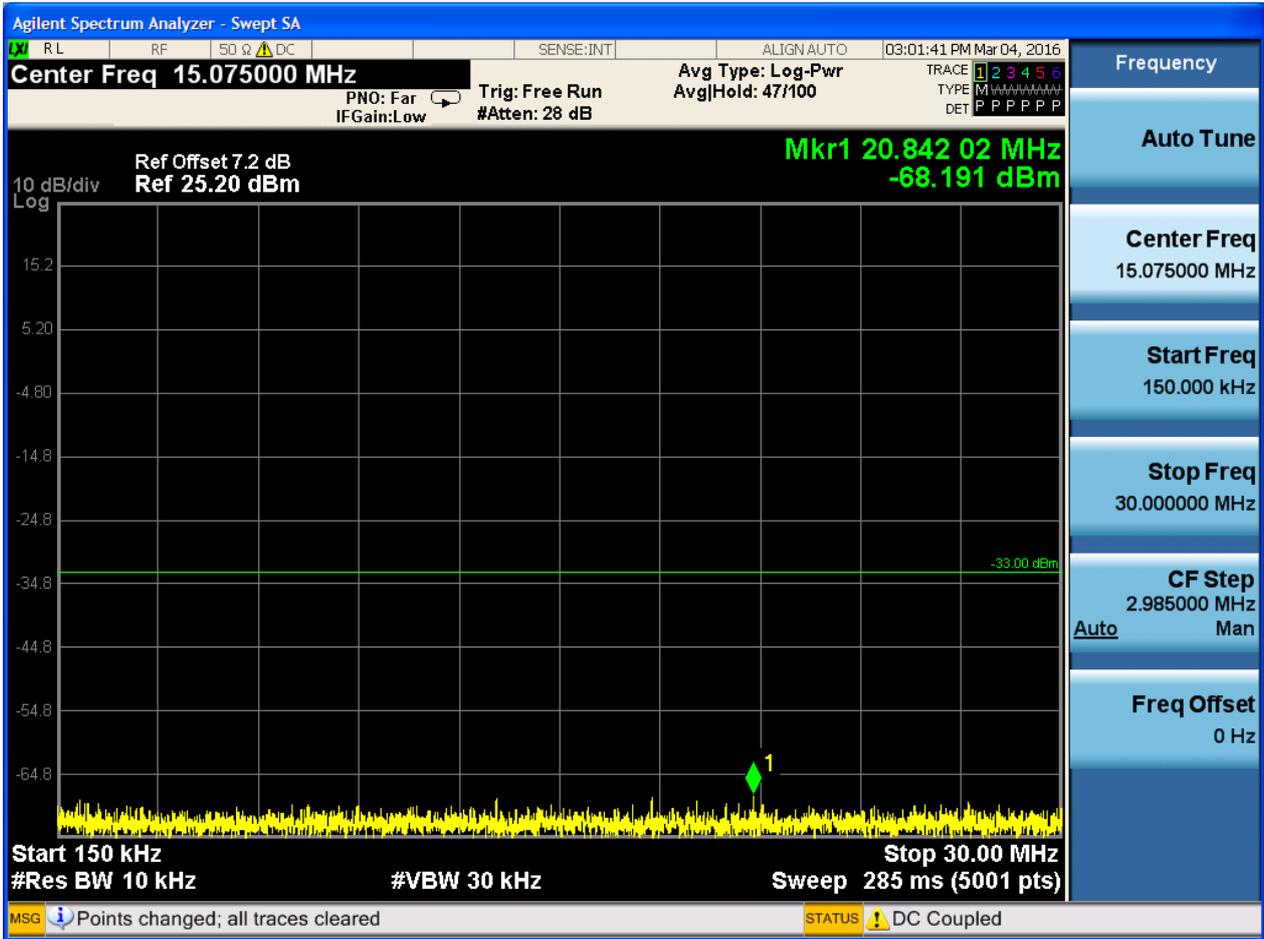
6.1.1.2.2.1 Test Channel = LCH

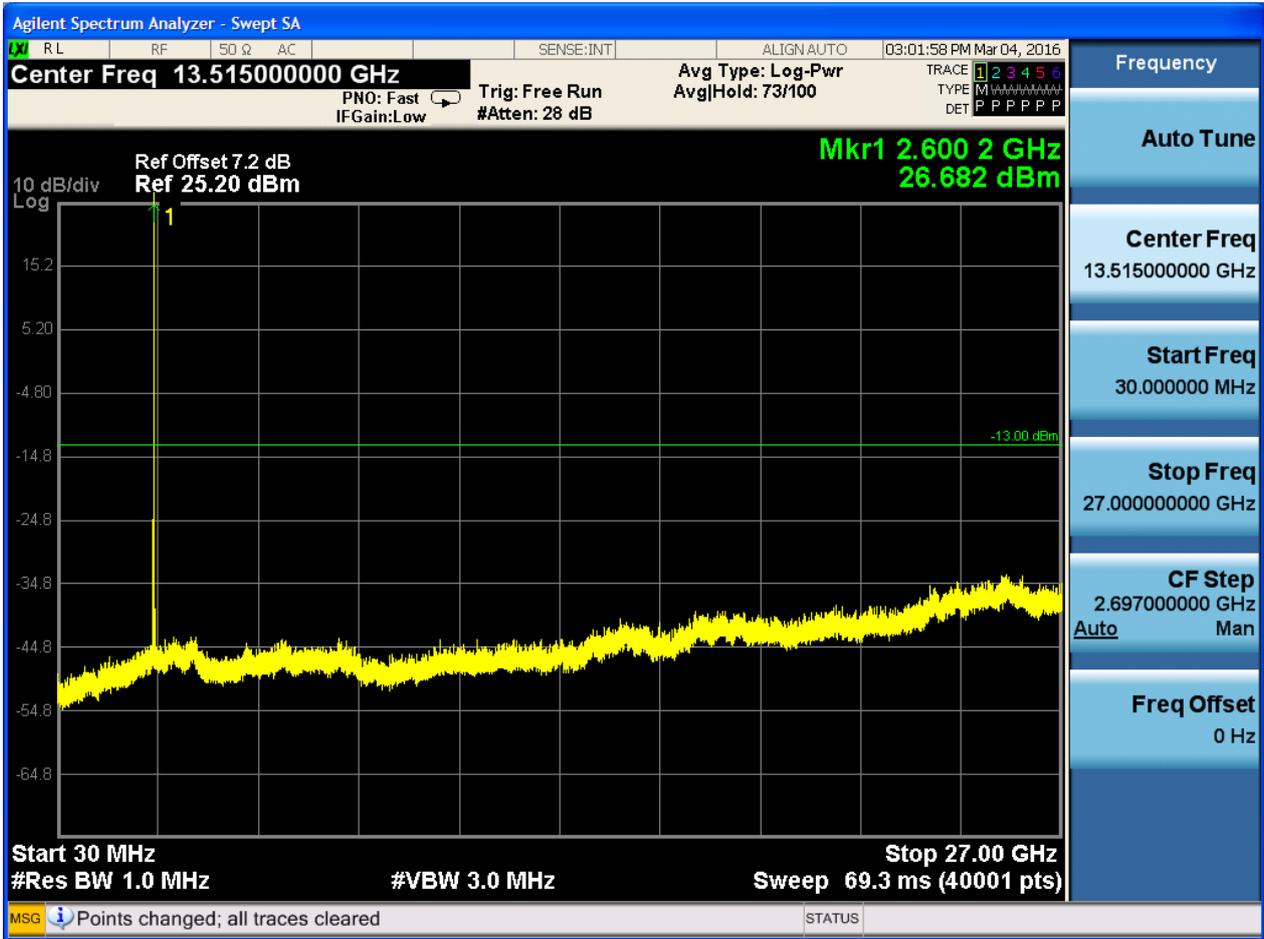
6.1.1.2.2.1.1 Test RB = RB1#0







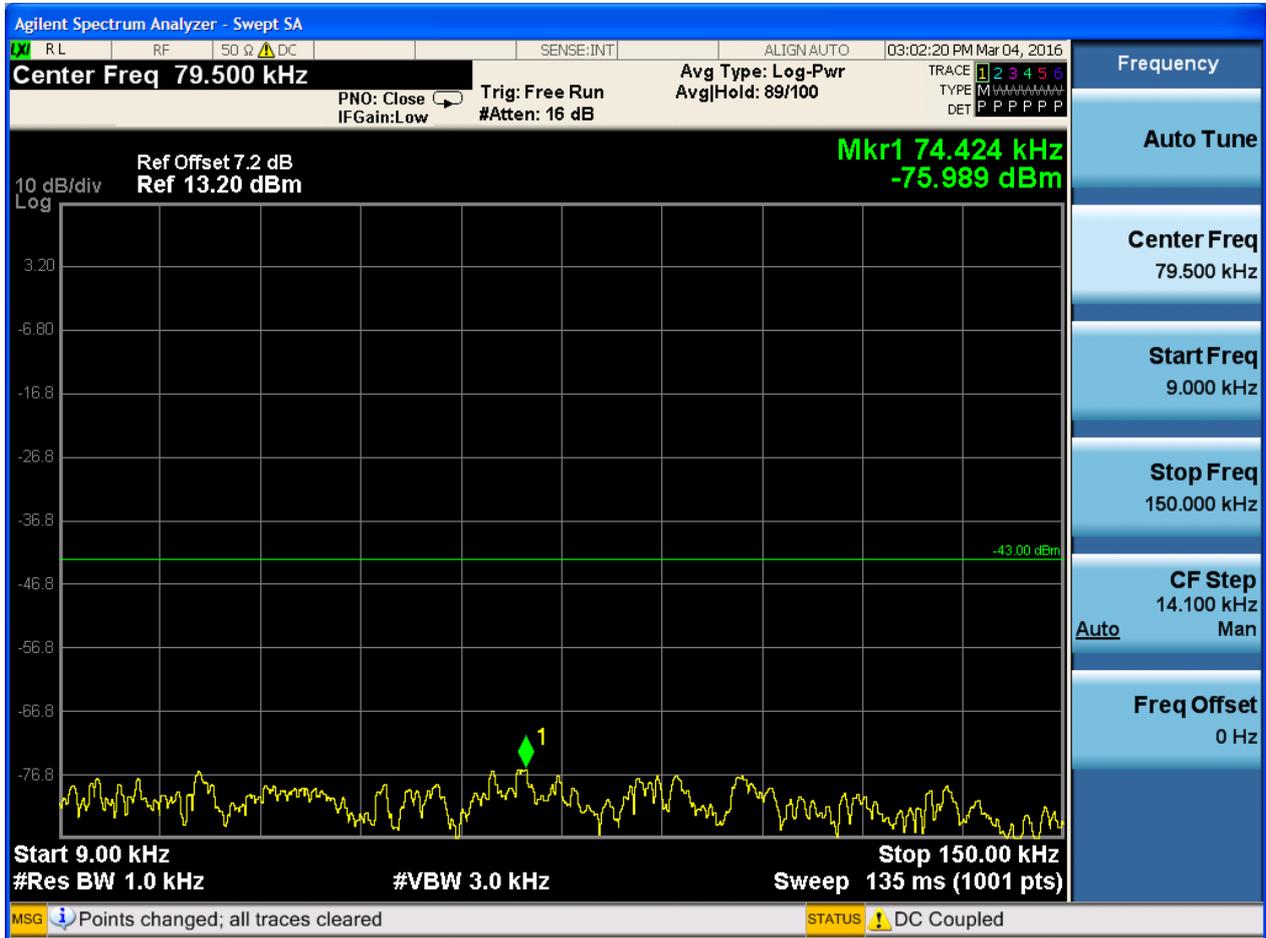


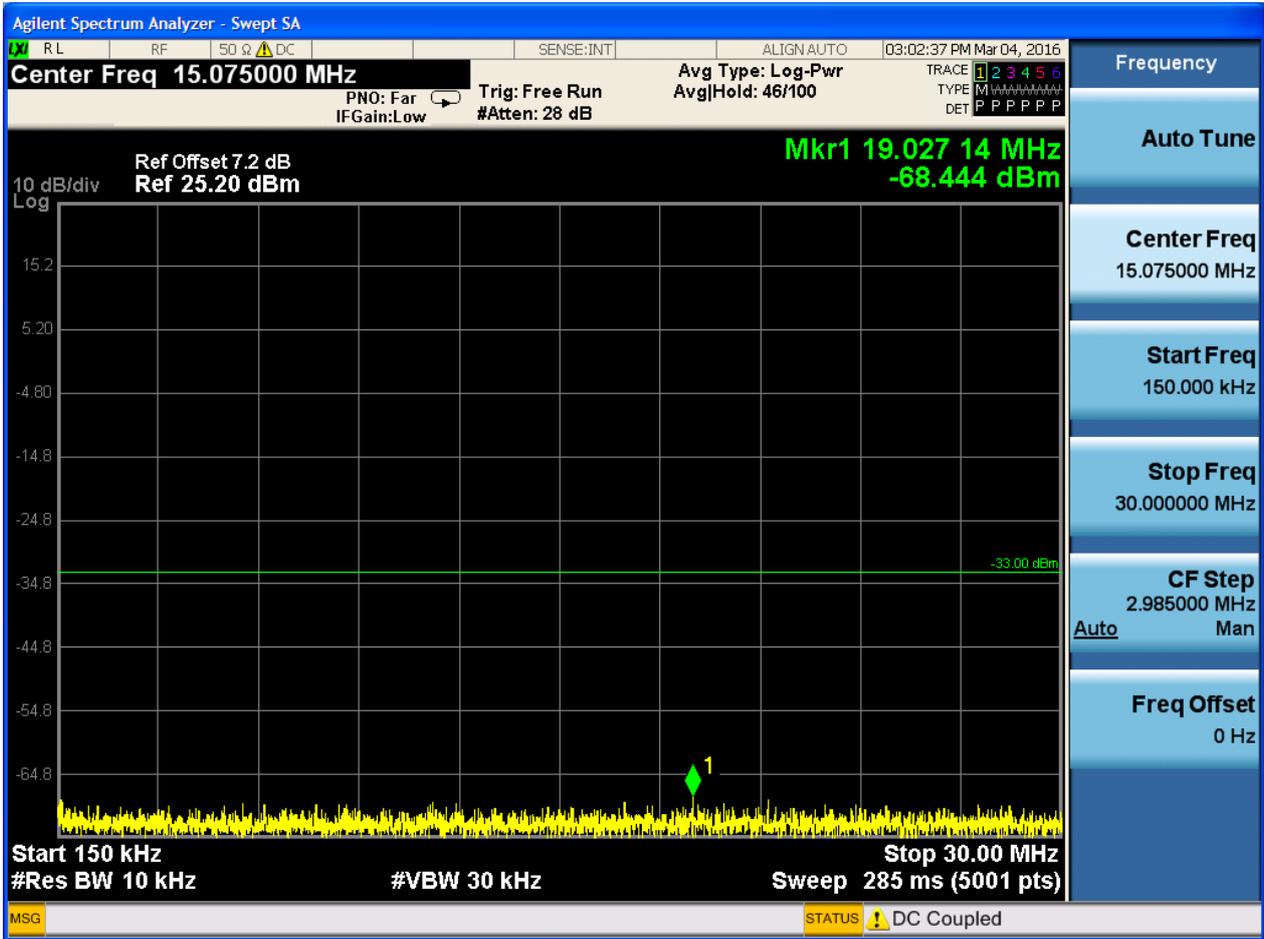


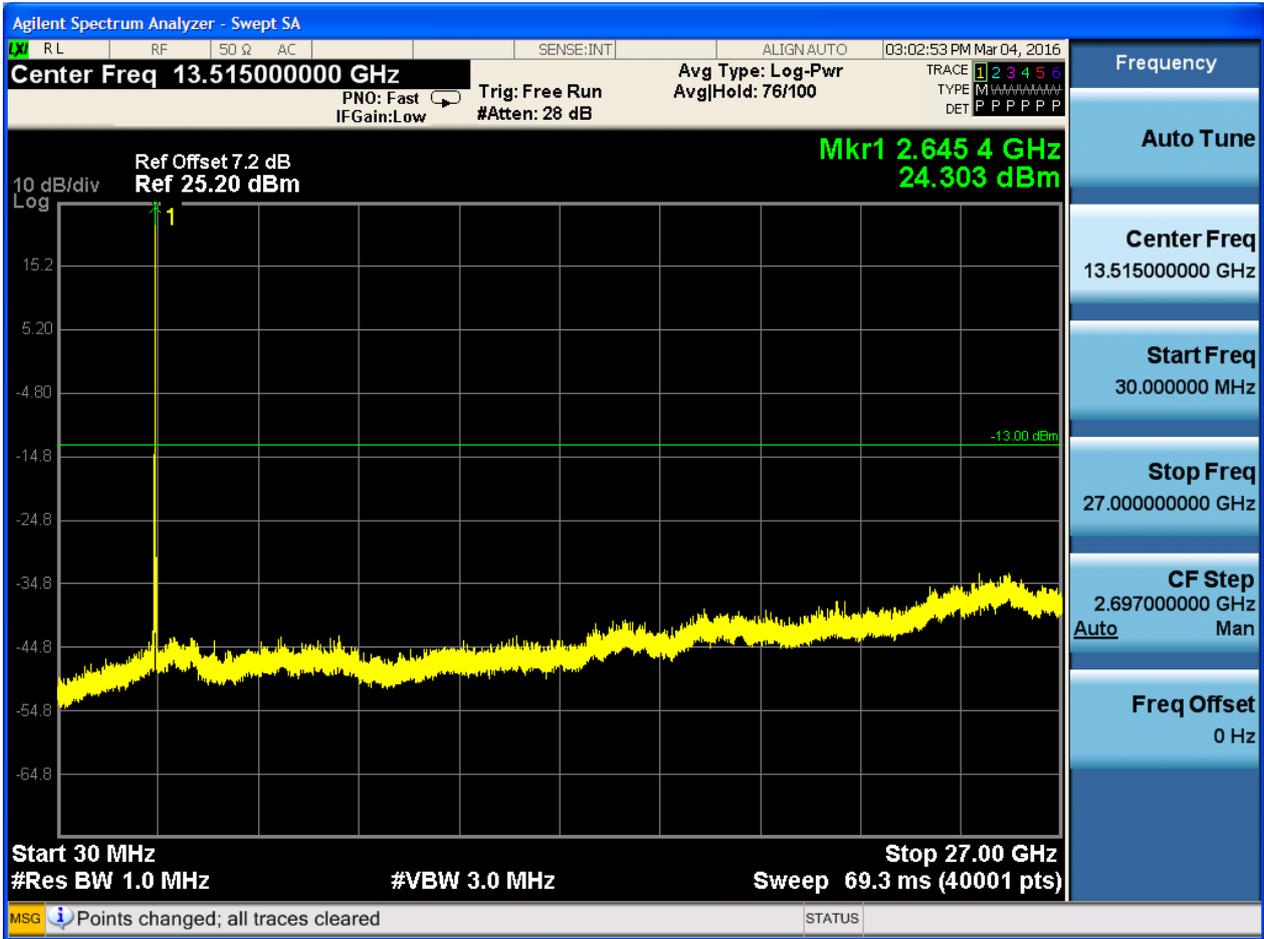


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







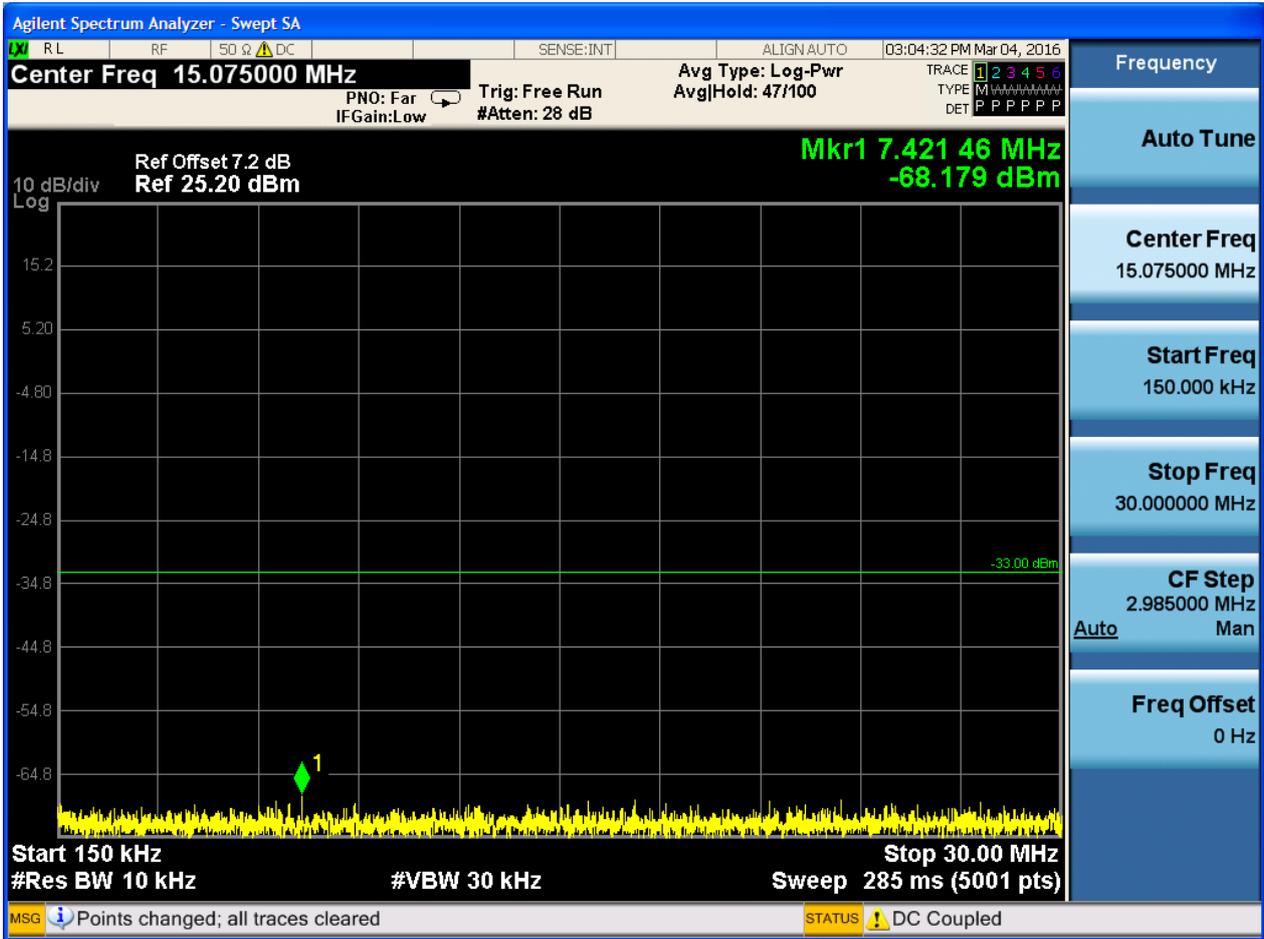


6.1.1.2.3 Test Bandwidth = 15

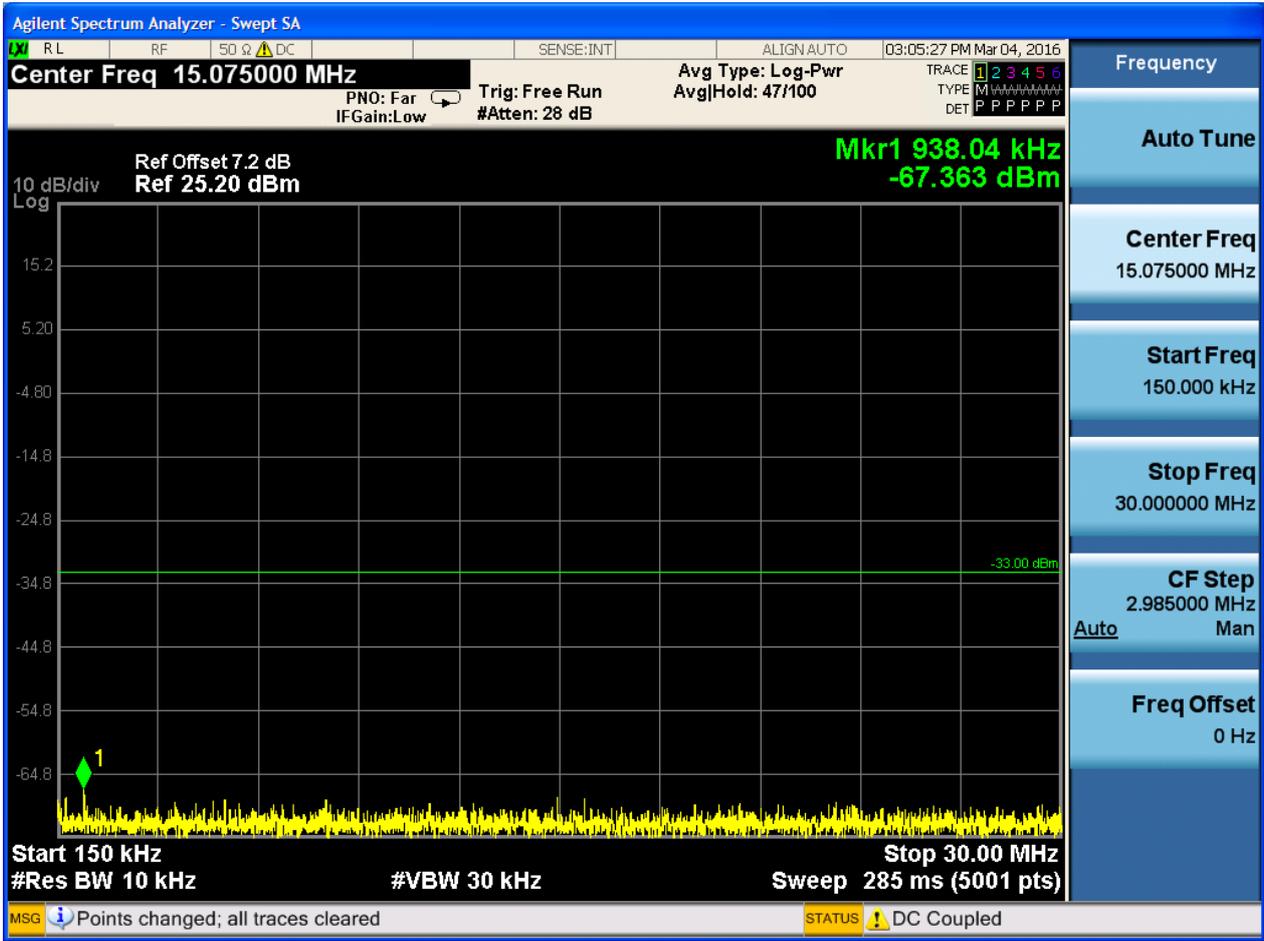
6.1.1.2.3.1 Test Channel = LCH

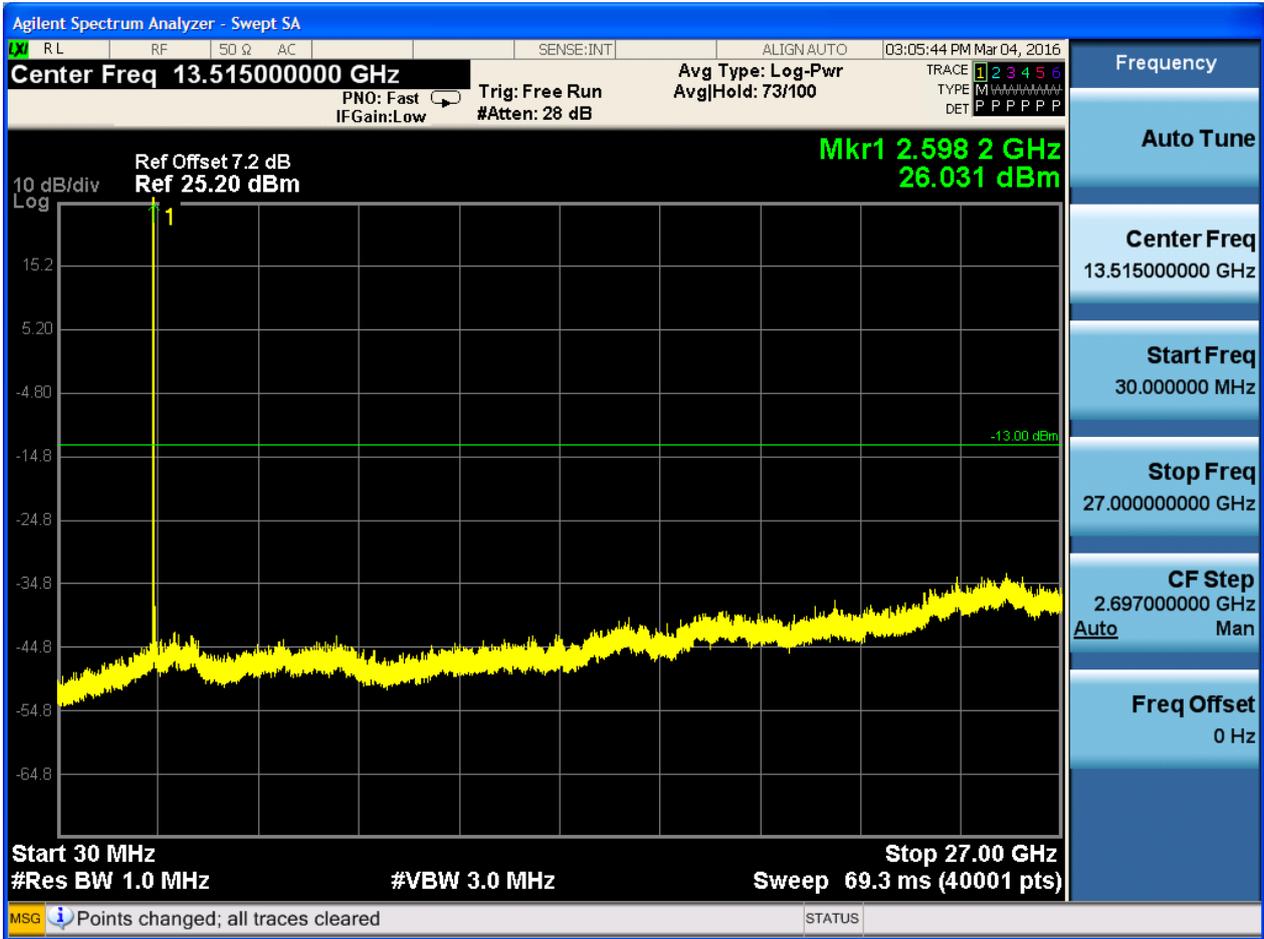
6.1.1.2.3.1.1 Test RB = RB1#0







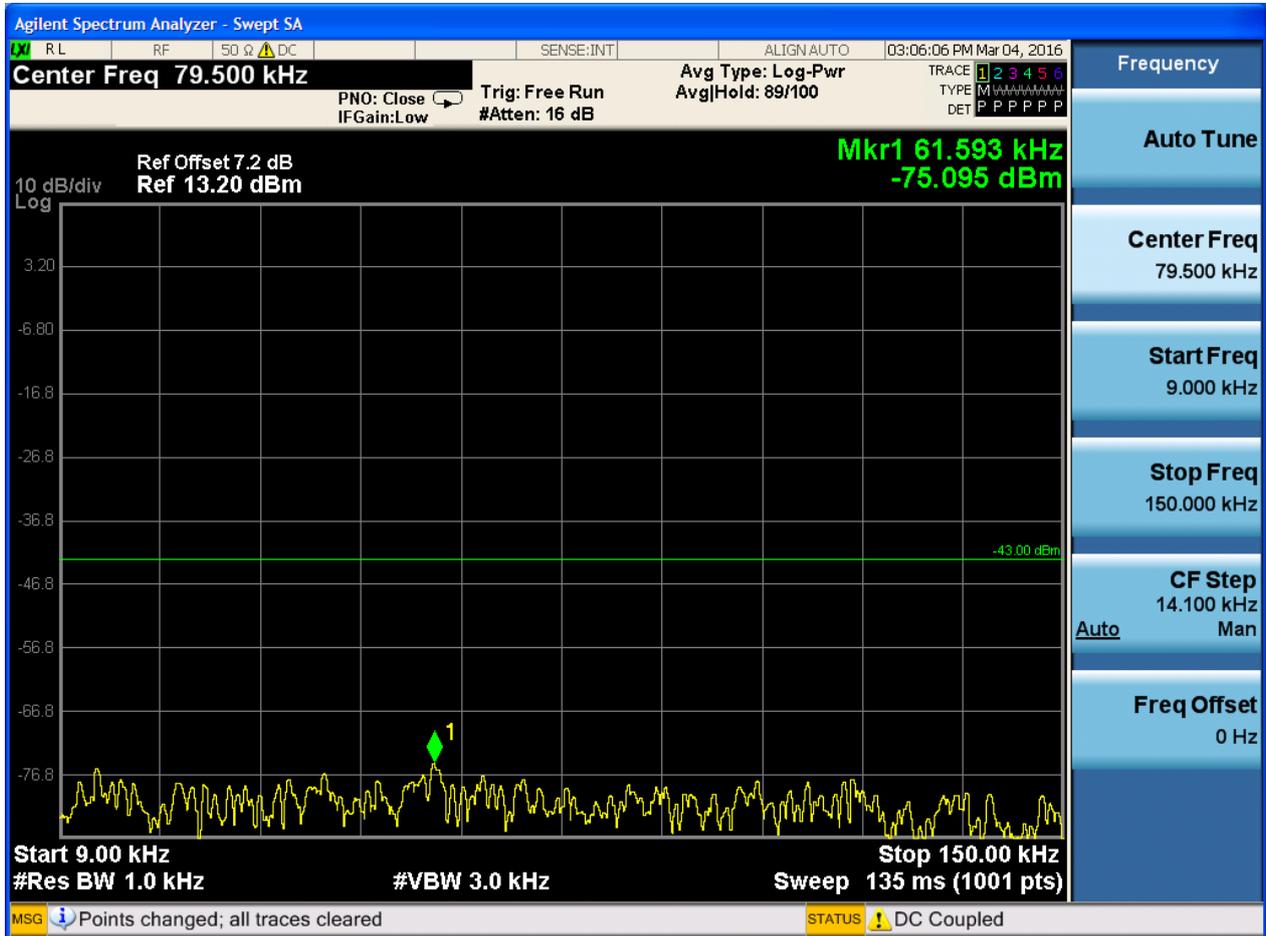




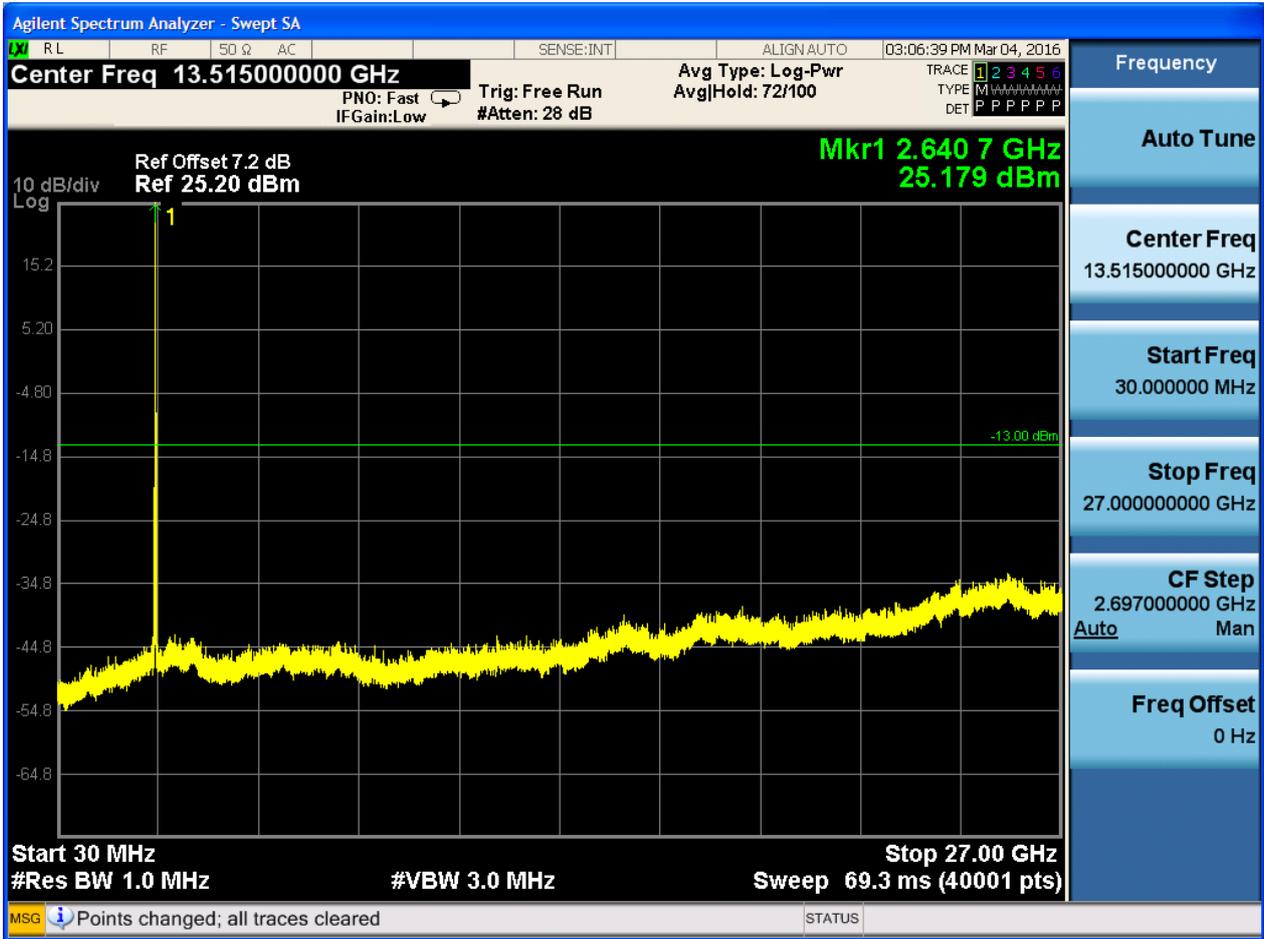


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





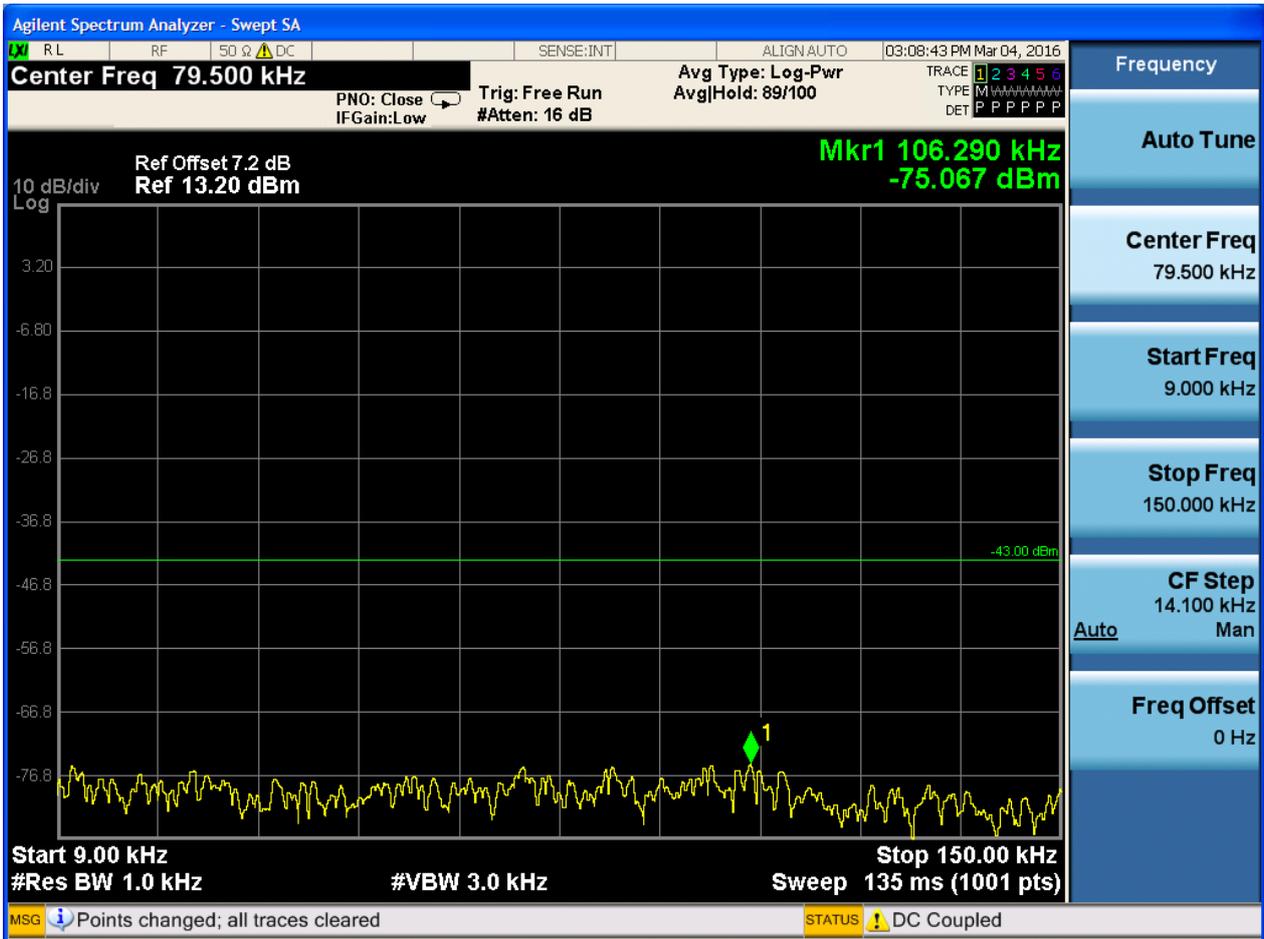




6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



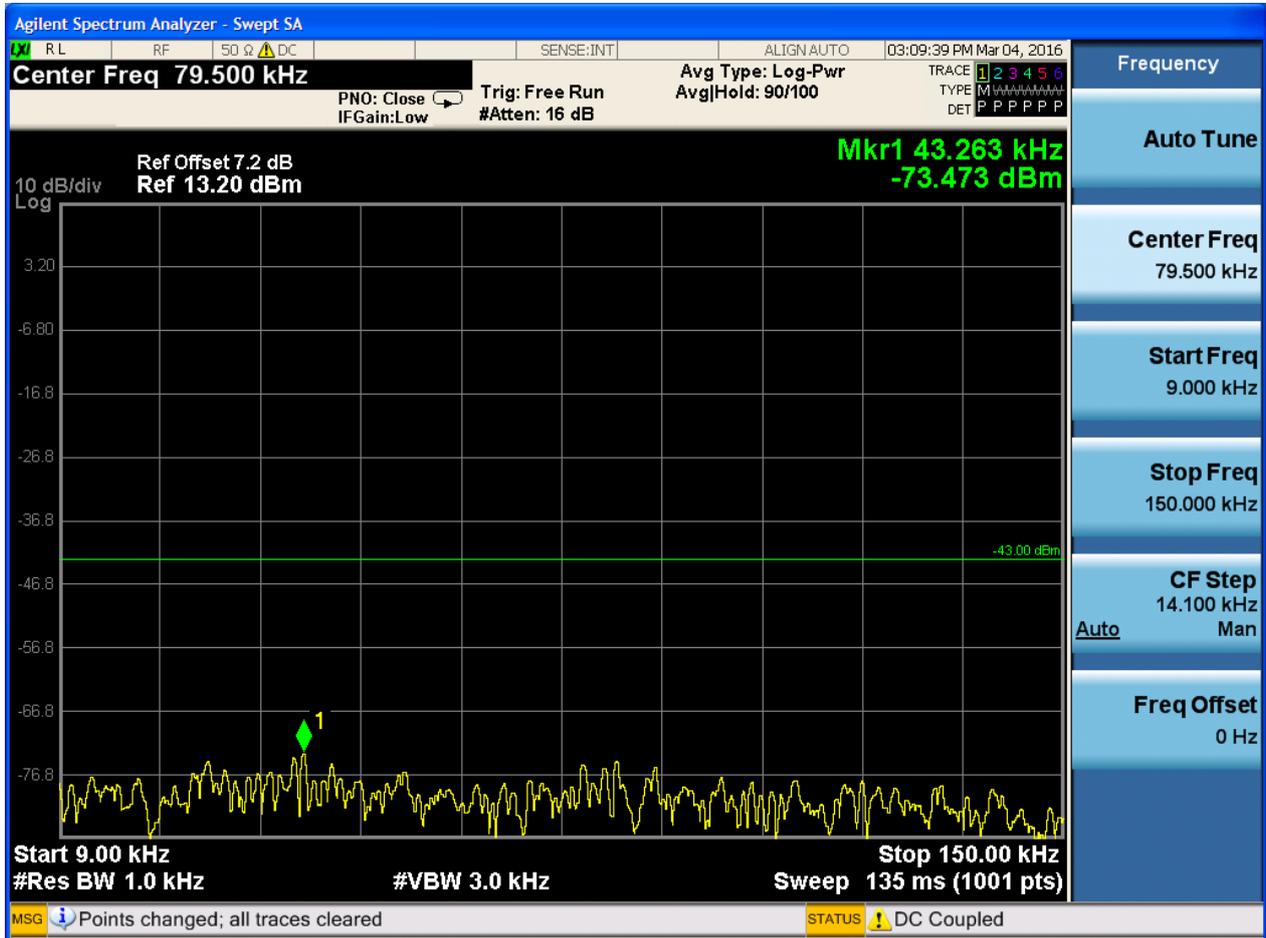




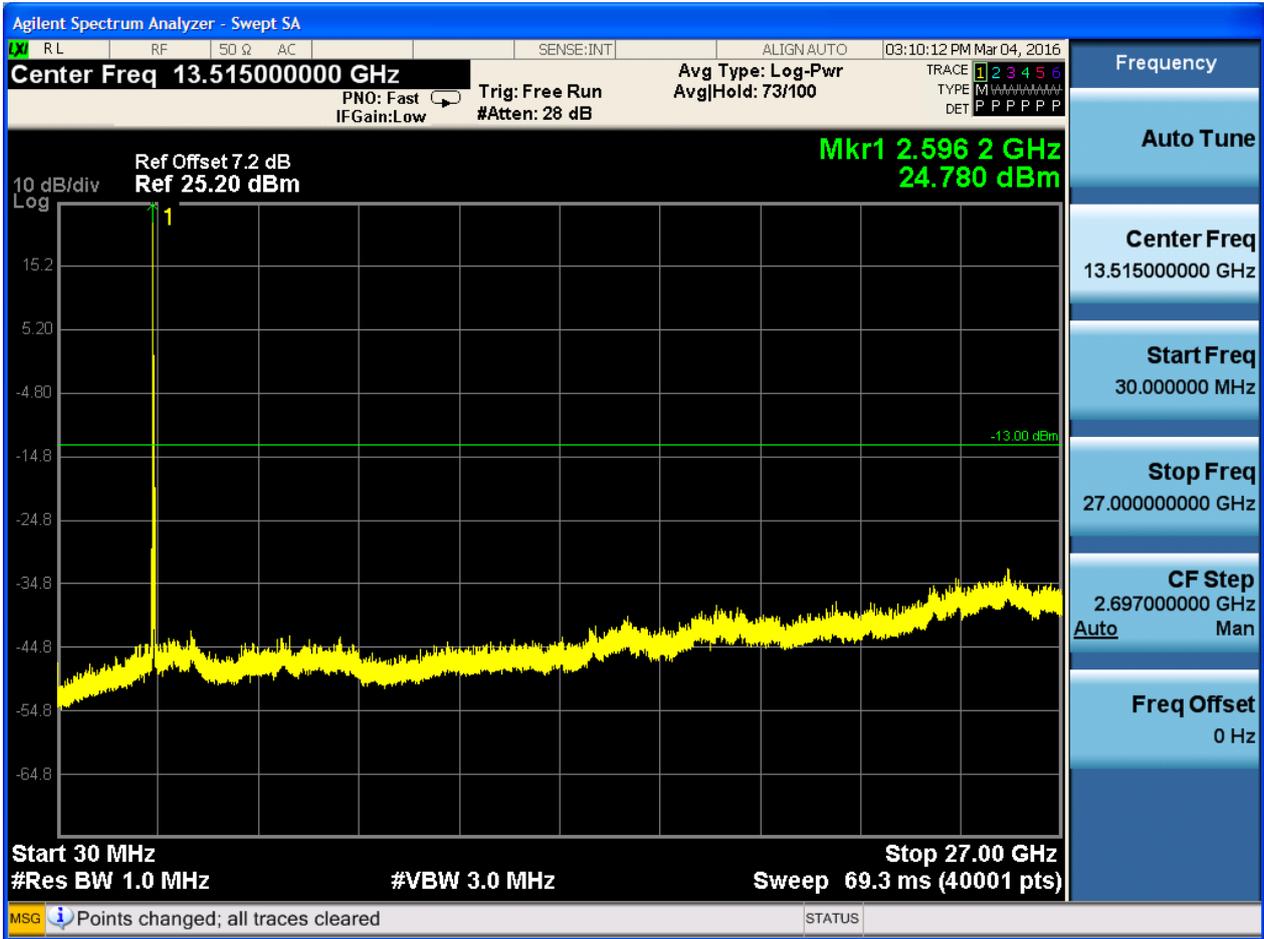


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



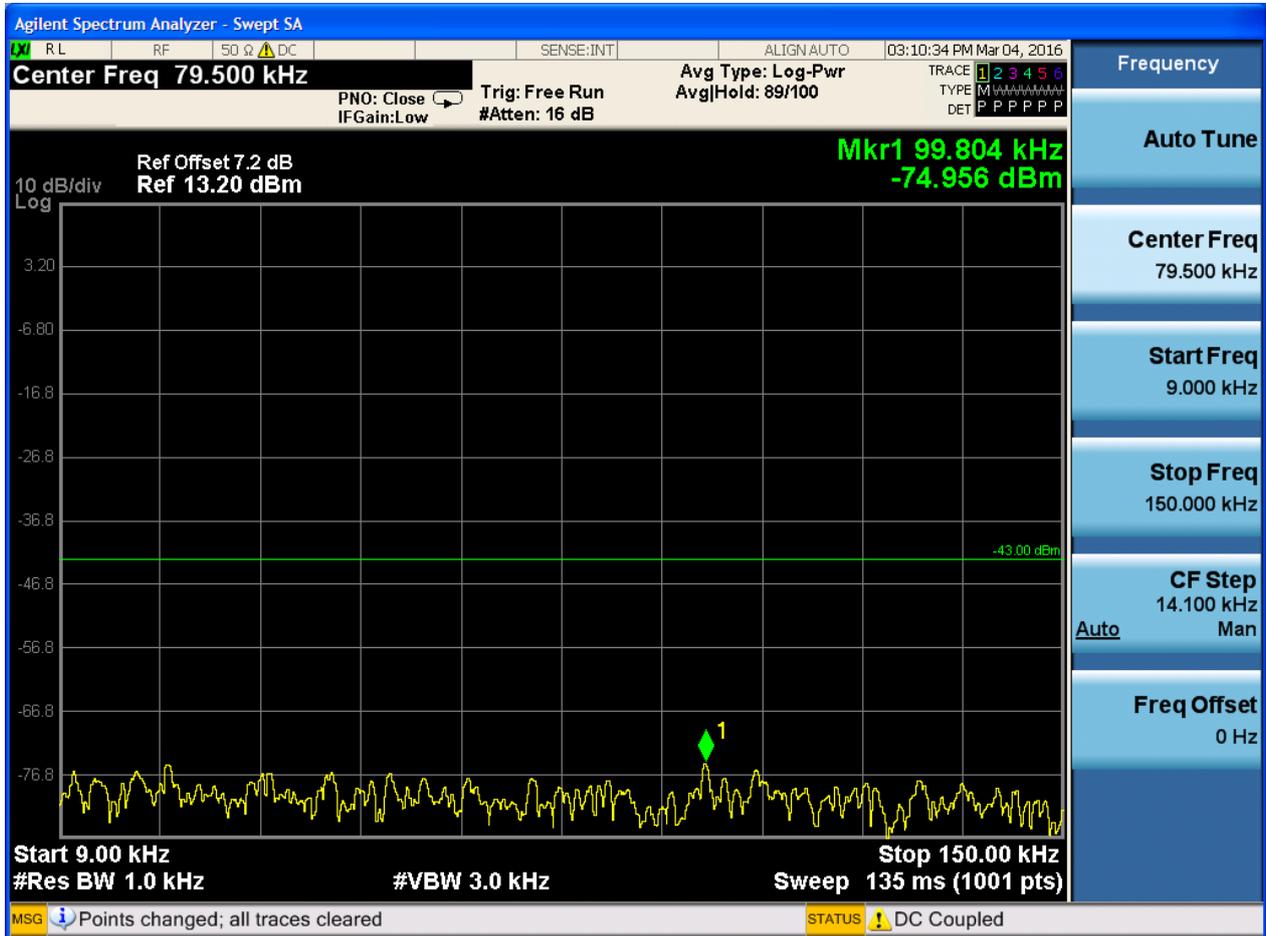




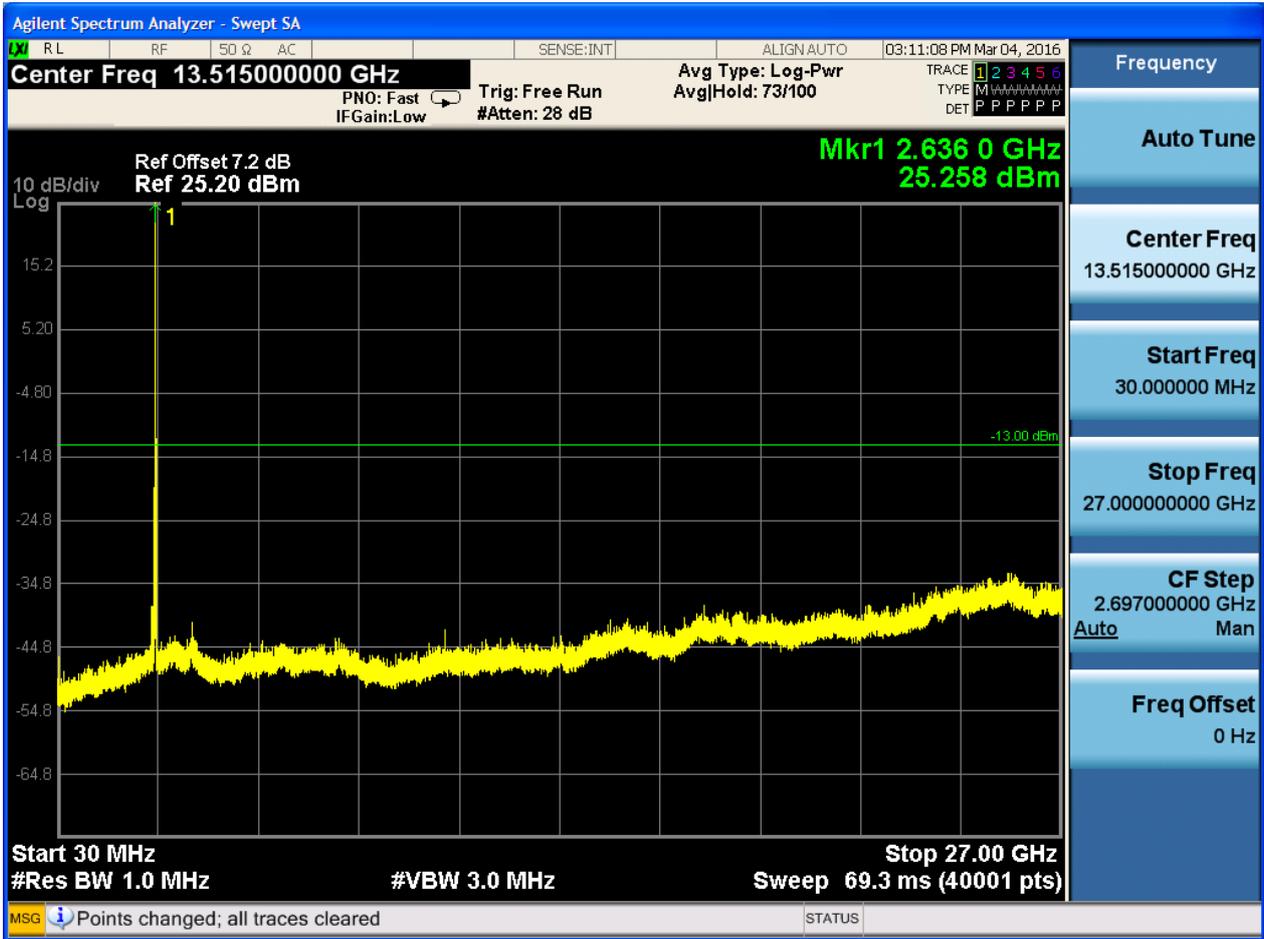


6.1.1.2.4.3 Test Channel = HCH

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, VBW = 200Hz, VBW = 600 Hz, Detector: PK

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

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

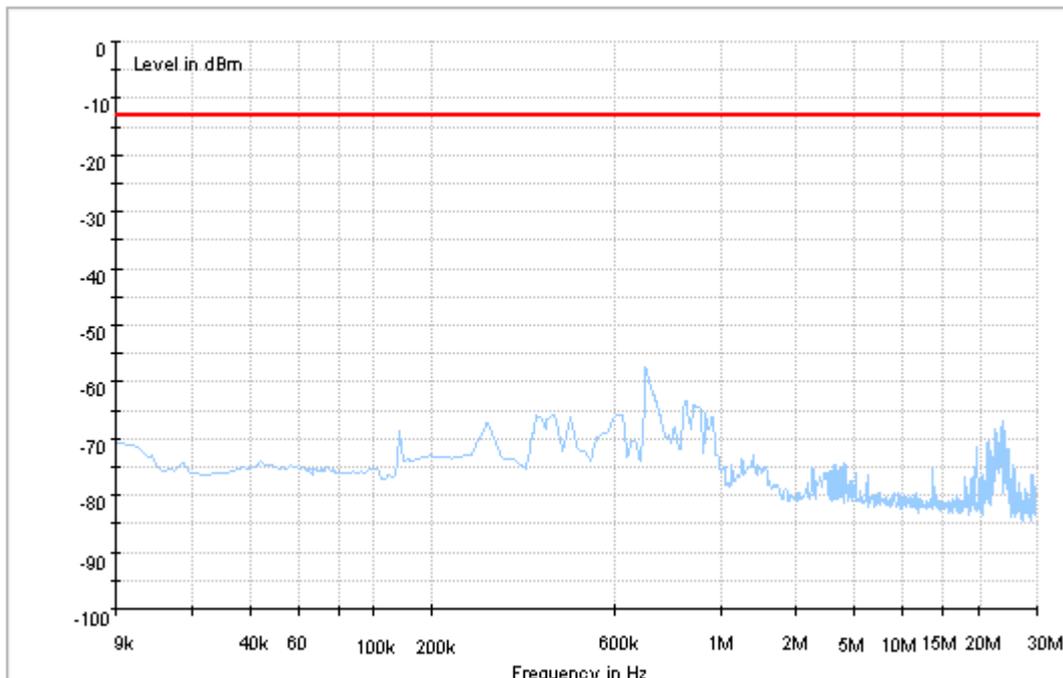
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

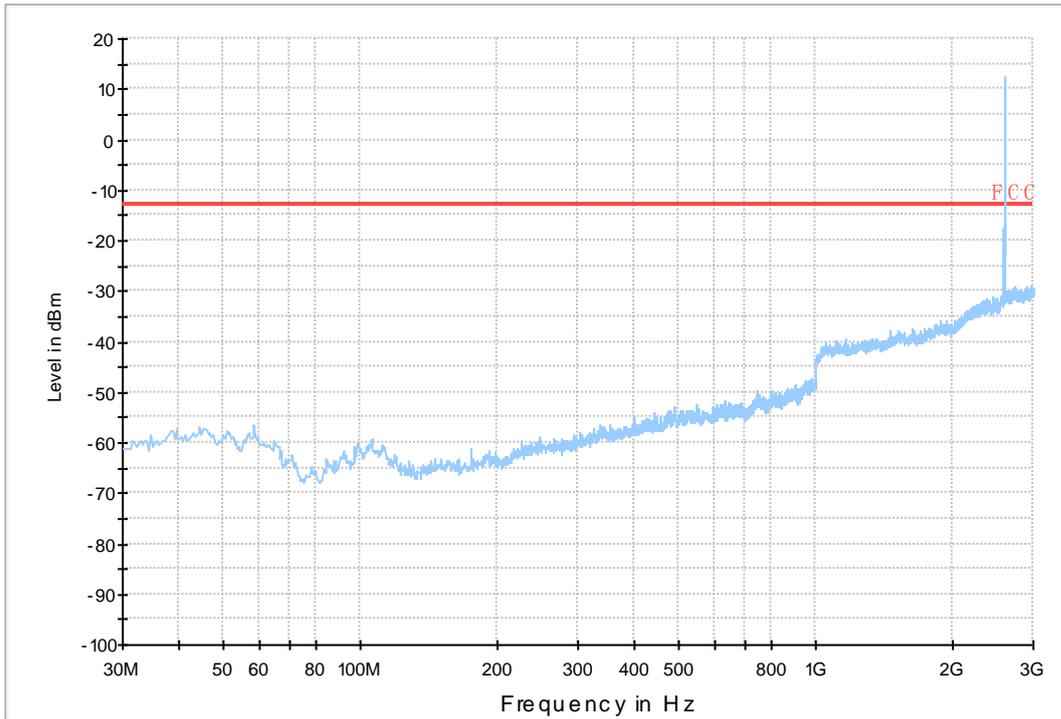
7.1 For LTE

7.1.1 Test Band = BAND41

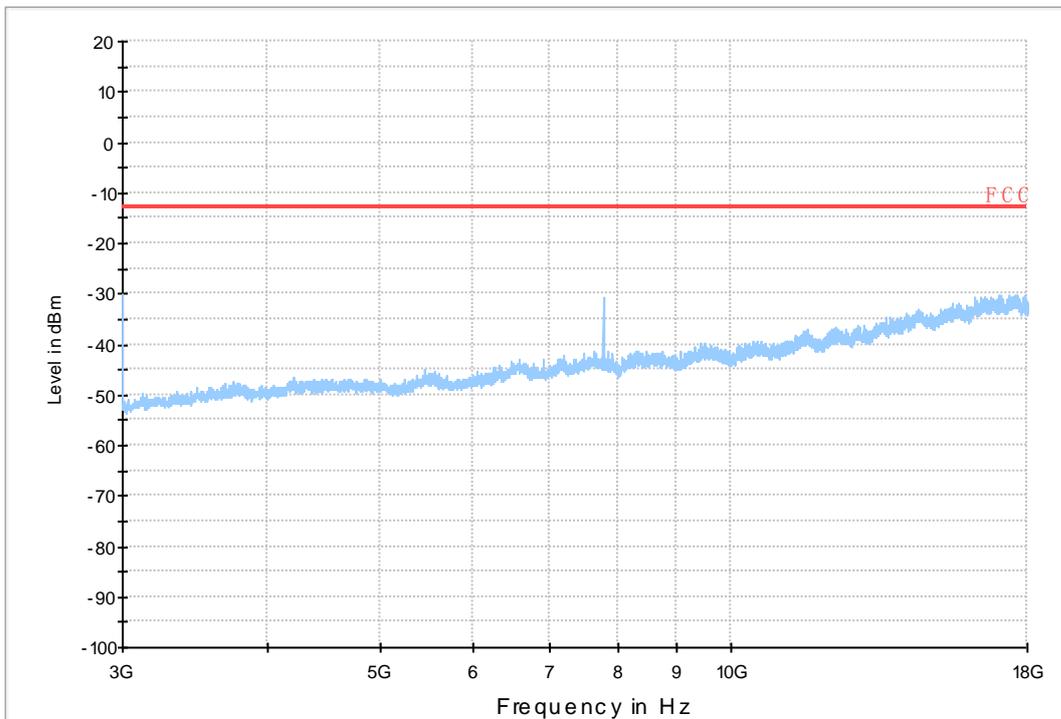
7.1.1.1 Test Bandwidth = 5

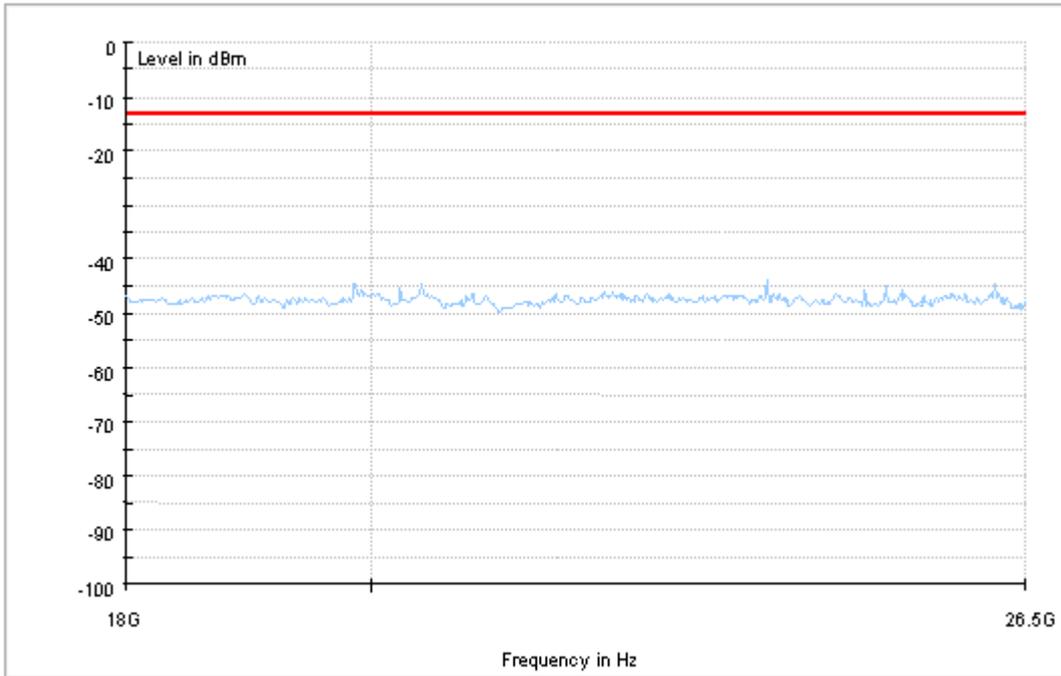


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

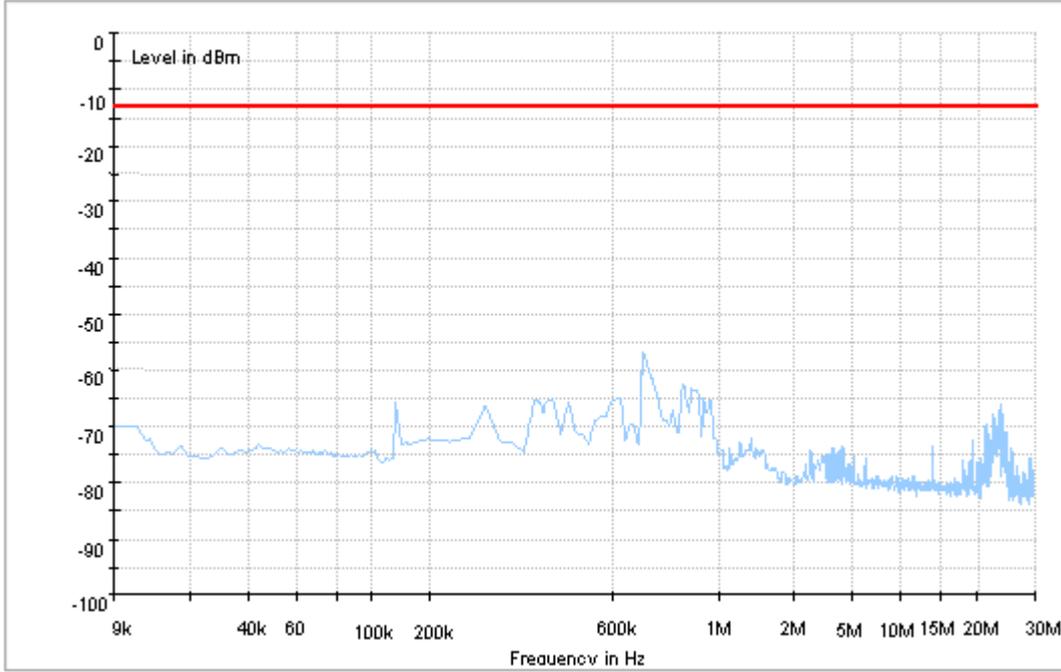


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

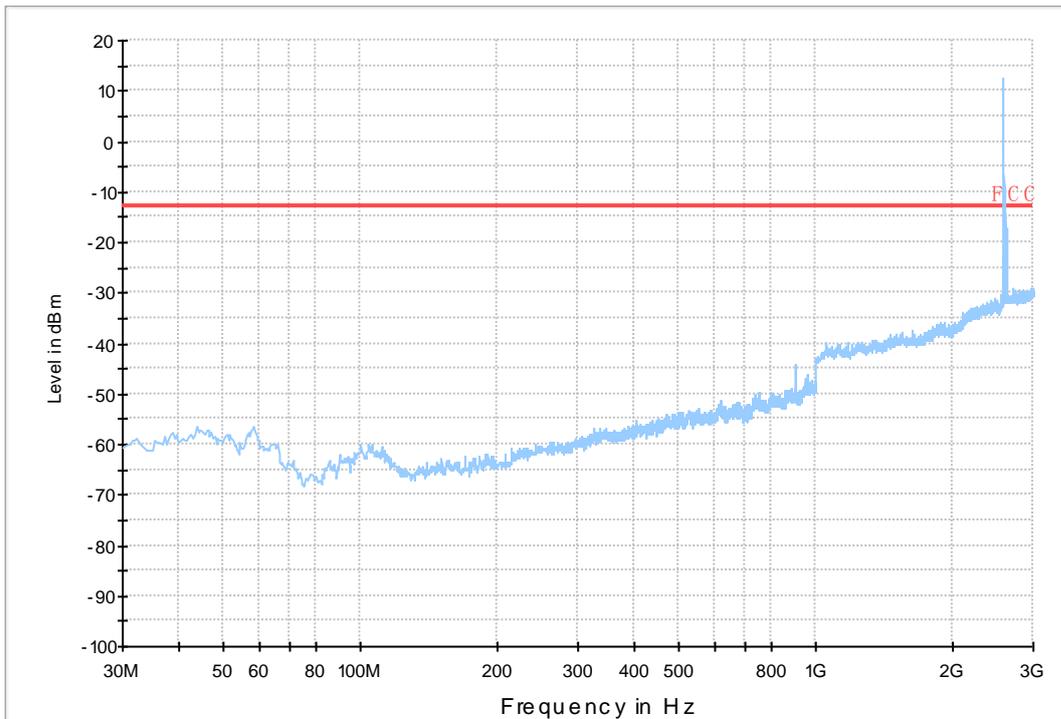




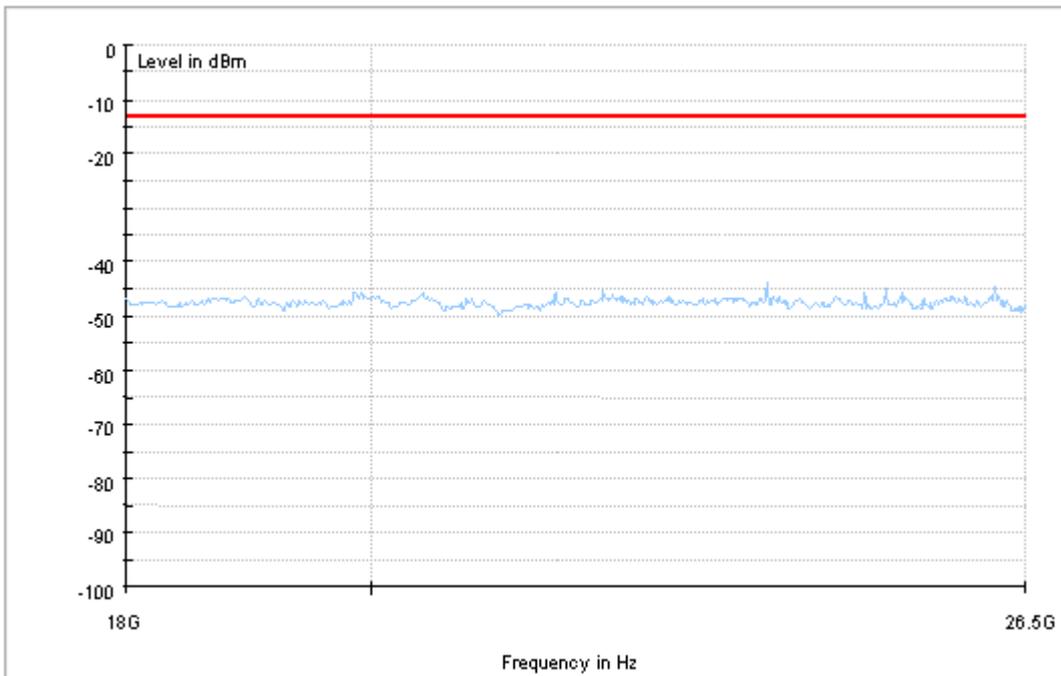
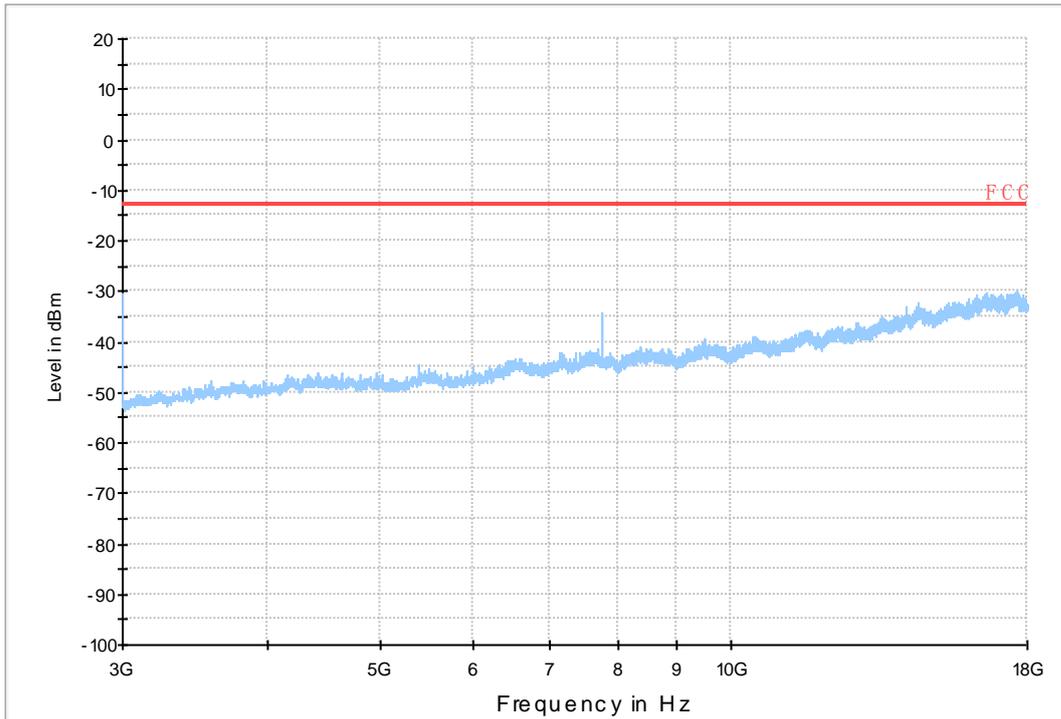
7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_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
BAND41	LTE/TM1	5	LCH	TN	VL	7.22	0.00282	PASS
					VN	-11.7	-0.00457	PASS
					VH	3.79	0.00148	PASS
			MCH	TN	VL	-4.72	-0.00181	PASS
					VN	2.39	0.00092	PASS
					VH	-11.33	-0.00435	PASS
			HCH	TN	VL	-6.55	-0.00247	PASS
					VN	-9.66	-0.00364	PASS
					VH	-5.76	-0.00217	PASS
		10	LCH	TN	VL	-6.74	-0.00263	PASS
					VN	26.19	0.01023	PASS
					VH	12.04	0.0047	PASS
			MCH	TN	VL	-1.2	-0.00046	PASS
					VN	-1.86	-0.00071	PASS
					VH	-4.56	-0.00175	PASS
			HCH	TN	VL	-4.85	-0.00183	PASS
					VN	3.06	0.00115	PASS
					VH	2.63	0.00099	PASS
		15	LCH	TN	VL	1.67	0.00065	PASS
					VN	-5.18	-0.00202	PASS
					VH	-2.56	-0.001	PASS
			MCH	TN	VL	5.92	0.00227	PASS
					VN	-0.69	-0.00026	PASS
					VH	-0.9	-0.00035	PASS
			HCH	TN	VL	0.1	0.00004	PASS
					VN	-5.74	-0.00217	PASS
					VH	-8.75	-0.00331	PASS
		20	LCH	TN	VL	9.34	0.00364	PASS
					VN	-0.79	-0.00031	PASS
					VH	6.95	0.00271	PASS
			MCH	TN	VL	-19.28	-0.0074	PASS
					VN	-6.77	-0.0026	PASS
					VH	-13.02	-0.005	PASS
			HCH	TN	VL	-0.89	-0.00034	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-2.69	-0.00102	PASS
					VH	-8.07	-0.00305	PASS
		5	LCH	TN	VL	27.11	0.0106	PASS
					VN	-5.24	-0.00205	PASS
					VH	-22.73	-0.00889	PASS
					VL	3.98	0.00153	PASS
			MCH	TN	VN	2.19	0.00084	PASS
					VH	2.69	0.00103	PASS
					VL	-5.81	-0.00219	PASS
					VN	-17.71	-0.00668	PASS
			HCH	TN	VH	3.12	0.00118	PASS
					VL	-0.43	-0.00017	PASS
					VN	1.77	0.00069	PASS
					VH	3.5	0.00137	PASS
		10	LCH	TN	VL	0.44	0.00017	PASS
					VN	-4.13	-0.00159	PASS
					VH	-5.46	-0.0021	PASS
					VL	5.94	0.00224	PASS
			MCH	TN	VN	-0.1	-0.00004	PASS
					VH	4.71	0.00178	PASS
					VL	4.39	0.00171	PASS
					VN	1.56	0.00061	PASS
			HCH	TN	VH	-0.27	-0.00011	PASS
					VL	-4.41	-0.00169	PASS
					VN	-1.33	-0.00051	PASS
					VH	1	0.00038	PASS
		15	LCH	TN	VL	-2.5	-0.00094	PASS
					VN	-5.87	-0.00222	PASS
					VH	-6.17	-0.00233	PASS
					VL	4.32	0.00168	PASS
			MCH	TN	VN	-6.57	-0.00256	PASS
					VH	4.11	0.0016	PASS
					VL	0.87	0.00033	PASS
					VN	-4.84	-0.00186	PASS
			HCH	TN	VH	-7.15	-0.00274	PASS
					VL	-4.66	-0.00176	PASS
					VN	-12.39	-0.00468	PASS
					VH	-4.12	-0.00156	PASS
		20	LCH	TN	VH	-4.12	-0.00156	PASS
					VL	4.32	0.00168	PASS
					VN	-6.57	-0.00256	PASS
					VH	4.11	0.0016	PASS
			MCH	TN	VL	0.87	0.00033	PASS
					VN	-4.84	-0.00186	PASS
					VH	-7.15	-0.00274	PASS
					VL	-4.66	-0.00176	PASS
			HCH	TN	VN	-12.39	-0.00468	PASS
					VH	-4.12	-0.00156	PASS
VL	4.32				0.00168	PASS		
VN	-6.57				-0.00256	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
BAND41	LTE/TM1	5	LCH	VN	-30	-4.56	-0.00178	PASS
					-20	5.58	0.00218	PASS
					-10	3.18	0.00124	PASS
					0	-0.89	-0.00035	PASS
					10	-5.01	-0.00196	PASS
					20	-0.26	-0.0001	PASS
					30	5.19	0.00203	PASS
					40	-6.94	-0.00271	PASS
			50	2.95	0.00115	PASS		
			MCH	VN	-30	-8.35	-0.00321	PASS
					-20	8.74	0.00336	PASS
					-10	-11.84	-0.00455	PASS
					0	1.17	0.00045	PASS
					10	-14.83	-0.00569	PASS
					20	2.86	0.0011	PASS
					30	-8.55	-0.00328	PASS
		40			4.95	0.0019	PASS	
		50	-0.3	-0.00012	PASS			
		HCH	VN	-30	-10.96	-0.00413	PASS	
				-20	-4.52	-0.0017	PASS	
				-10	-3.39	-0.00128	PASS	
				0	-5.78	-0.00218	PASS	
				10	-9	-0.00339	PASS	
				20	-2.49	-0.00094	PASS	
				30	-6.55	-0.00247	PASS	
				40	-3.78	-0.00143	PASS	
		50	-9.27	-0.00349	PASS			
		10	LCH	VN	-30	13.18	0.00515	PASS
					-20	17.55	0.00686	PASS
					-10	8.61	0.00336	PASS
					0	62.6	0.02445	PASS
					10	-3.4	-0.00133	PASS
20	33.4				0.01305	PASS		
30	1.37				0.00054	PASS		
40	14.63				0.00571	PASS		
50	-21.49		-0.00839	PASS				
MCH	VN		-30	-0.57	-0.00022	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	13.3	0.00511	PASS		
					-10	-2.32	-0.00089	PASS		
					0	0.93	0.00036	PASS		
					10	-4.39	-0.00169	PASS		
					20	6.44	0.00247	PASS		
					30	-4.55	-0.00175	PASS		
					40	6.54	0.00251	PASS		
					50	-7.15	-0.00274	PASS		
			HCH	VN	-30	-3.23	-0.00122	PASS		
					-20	6.34	0.00239	PASS		
					-10	-2.99	-0.00113	PASS		
					0	-4.82	-0.00182	PASS		
					10	-9.57	-0.00361	PASS		
					20	-10.63	-0.00401	PASS		
					30	-3.49	-0.00132	PASS		
					40	-3.33	-0.00126	PASS		
			LCH	VN	-30	6.39	0.00249	PASS		
					-20	-0.39	-0.00015	PASS		
					-10	4.55	0.00178	PASS		
					0	-0.1	-0.00004	PASS		
		10			7.21	0.00281	PASS			
		20			0.92	0.00036	PASS			
		30			10.31	0.00402	PASS			
		40			8.64	0.00337	PASS			
		MCH	VN	-30	-7.02	-0.00269	PASS			
				-20	-6.78	-0.0026	PASS			
				-10	-10.63	-0.00408	PASS			
				0	-5.81	-0.00223	PASS			
				10	-4.39	-0.00169	PASS			
				20	-3.26	-0.00125	PASS			
				30	-6.37	-0.00245	PASS			
				40	4.62	0.00177	PASS			
		HCH	VN	-30	-4.73	-0.00179	PASS			
				-20	-12.83	-0.00485	PASS			
				-10	-3.23	-0.00122	PASS			
				0	-6.02	-0.00227	PASS			
		15					-30	6.39	0.00249	PASS
							-20	-0.39	-0.00015	PASS
							-10	4.55	0.00178	PASS
							0	-0.1	-0.00004	PASS
10	7.21						0.00281	PASS		
20	0.92						0.00036	PASS		
30	10.31						0.00402	PASS		
40	8.64						0.00337	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-15.25	-0.00576	PASS		
					20	-41.89	-0.01582	PASS		
					30	-4.62	-0.00175	PASS		
					40	2.69	0.00102	PASS		
					50	-6.32	-0.00239	PASS		
					LCH	VN	-30	2.12	0.00083	PASS
							-20	1.52	0.00059	PASS
							-10	3.15	0.00123	PASS
							0	-5.98	-0.00233	PASS
							10	2.7	0.00105	PASS
		20	-7.64	-0.00298			PASS			
		30	7.8	0.00304			PASS			
		40	6.81	0.00265			PASS			
		50	-14.19	-0.00553			PASS			
		MCH	VN	-30			-8.38	-0.00322	PASS	
				-20	-7.42	-0.00285	PASS			
				-10	-4.95	-0.0019	PASS			
				0	-4.22	-0.00162	PASS			
				10	-3.49	-0.00134	PASS			
				20	-7.35	-0.00282	PASS			
	30			-3.68	-0.00141	PASS				
	40			-8.23	-0.00316	PASS				
	50			-3.89	-0.00149	PASS				
	HCH			VN	-30	0.17	0.00006	PASS		
		-20	-9.4		-0.00355	PASS				
		-10	0.26		0.0001	PASS				
		0	2.6		0.00098	PASS				
		10	-7.51		-0.00284	PASS				
		20	-2.16		-0.00082	PASS				
		30	-3.03		-0.00115	PASS				
		40	-3.82		-0.00144	PASS				
	50	-6.42	-0.00243	PASS						
	LTE/TM2	5	LCH	VN	-30	15.12	0.00591	PASS		
-20					2.22	0.00087	PASS			
-10					3.03	0.00118	PASS			
0					2.12	0.00083	PASS			
10					-9.58	-0.00375	PASS			
20					4.66	0.00182	PASS			
30					-1.06	-0.00041	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	7.12	0.00278	PASS	
					50	-4.56	-0.00178	PASS	
			MCH	VN	-30	4.13	0.00159	PASS	
					-20	-3.89	-0.00149	PASS	
					-10	2.26	0.00087	PASS	
					0	1.5	0.00058	PASS	
					10	-1.73	-0.00066	PASS	
					20	1.07	0.00041	PASS	
					30	-10.69	-0.0041	PASS	
					40	-6.84	-0.00263	PASS	
					50	-8.14	-0.00312	PASS	
					HCH	VN	-30	-15.32	-0.00578
			-20	0.26			0.0001	PASS	
			-10	3.65			0.00138	PASS	
			0	-2.2			-0.00083	PASS	
			10	-2.22			-0.00084	PASS	
			20	-2.02			-0.00076	PASS	
			30	-4.88			-0.00184	PASS	
		40	-7.74	-0.00292			PASS		
		10		LCH	VN	-30	10.61	0.00414	PASS
						-20	15.58	0.00609	PASS
						-10	10.99	0.00429	PASS
						0	6.74	0.00263	PASS
						10	4.82	0.00188	PASS
						20	3.59	0.0014	PASS
						30	8.94	0.00349	PASS
						40	6.67	0.00261	PASS
						50	7.37	0.00288	PASS
				MCH	VN	-30	5.09	0.00195	PASS
						-20	-15.15	-0.00582	PASS
						-10	-2.57	-0.00099	PASS
						0	-6.59	-0.00253	PASS
						10	-4.81	-0.00185	PASS
20	7.5					0.00288	PASS		
HCH	VN	30	3.95	0.00152	PASS				
		40	-1.93	-0.00074	PASS				
		50	-2.63	-0.00101	PASS				
			HCH	VN	-30	0.63	0.00024	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	-5.12	-0.00193	PASS		
					-10	1.52	0.00057	PASS		
					0	-0.21	-0.00008	PASS		
					10	-15.49	-0.00585	PASS		
					20	2.25	0.00085	PASS		
					30	1.47	0.00055	PASS		
					40	2.6	0.00098	PASS		
					50	-10.33	-0.0039	PASS		
		15	LCH	VN	-30	94.6	0.03692	PASS		
					-20	16.92	0.0066	PASS		
					-10	62.5	0.02439	PASS		
					0	118.96	0.04642	PASS		
					10	119.46	0.04662	PASS		
					20	134.24	0.05239	PASS		
					30	144.74	0.05648	PASS		
					40	103.33	0.04032	PASS		
					50	-5.02	-0.00196	PASS		
					MCH	VN	-30	-1.22	-0.00047	PASS
							-20	-4.52	-0.00174	PASS
							-10	3.89	0.00149	PASS
			0	-1.36			-0.00052	PASS		
			10	-11.59			-0.00445	PASS		
			20	-12.25			-0.0047	PASS		
			30	6.91			0.00265	PASS		
			40	-0.53			-0.0002	PASS		
			HCH	VN	-30	-11.94	-0.00451	PASS		
					-20	-9.71	-0.00367	PASS		
					-10	4.98	0.00188	PASS		
					0	-0.83	-0.00031	PASS		
					10	-9.3	-0.00351	PASS		
					20	-14.92	-0.00564	PASS		
					30	-2.96	-0.00112	PASS		
		40			-2.12	-0.0008	PASS			
		50	-8.14	-0.00307	PASS					
		20	LCH	VN	-30	2.36	0.00092	PASS		
					-20	0.64	0.00025	PASS		
-10	2.95				0.00115	PASS				
0	-3.4				-0.00133	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-0.56	-0.00022	PASS		
					20	5.82	0.00227	PASS		
					30	-6.49	-0.00253	PASS		
					40	12.49	0.00487	PASS		
					50	-0.79	-0.00031	PASS		
					MCH	VN	-30	-6.19	-0.00238	PASS
							-20	-0.29	-0.00011	PASS
							-10	1.95	0.00075	PASS
							0	-7.7	-0.00296	PASS
							10	-12.16	-0.00467	PASS
			20	-2.89			-0.00111	PASS		
			30	-8.24			-0.00316	PASS		
			40	-2.19			-0.00084	PASS		
			50	-12.82			-0.00492	PASS		
			HCH	VN			-30	1.4	0.00053	PASS
					-20	-2.76	-0.00104	PASS		
					-10	-6.74	-0.00255	PASS		
					0	-5.68	-0.00215	PASS		
					10	-9.58	-0.00362	PASS		
					20	-3.69	-0.0014	PASS		
					30	-7.07	-0.00267	PASS		
					40	1.39	0.00053	PASS		
			50	-3.58	-0.00135	PASS				

END