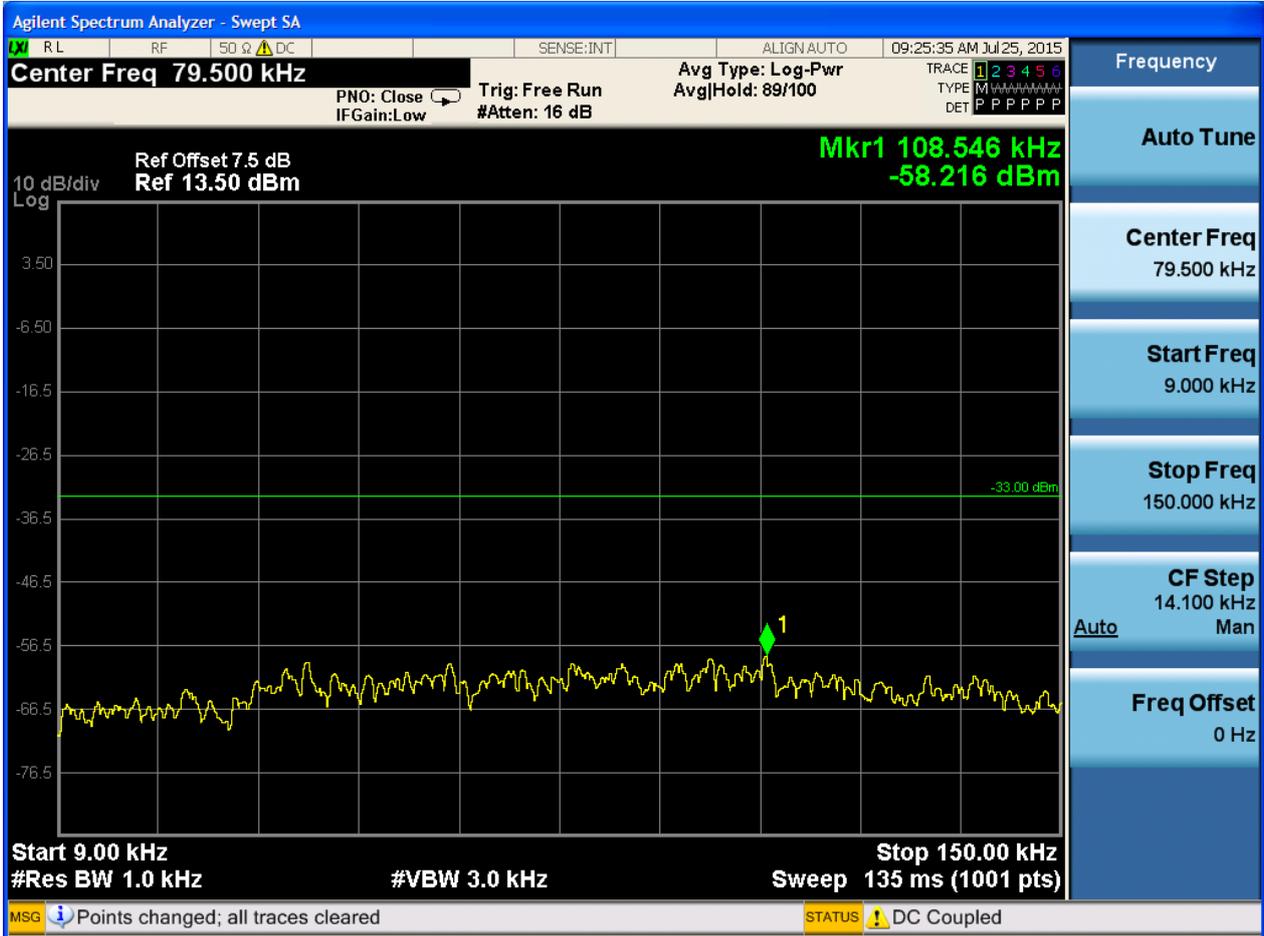


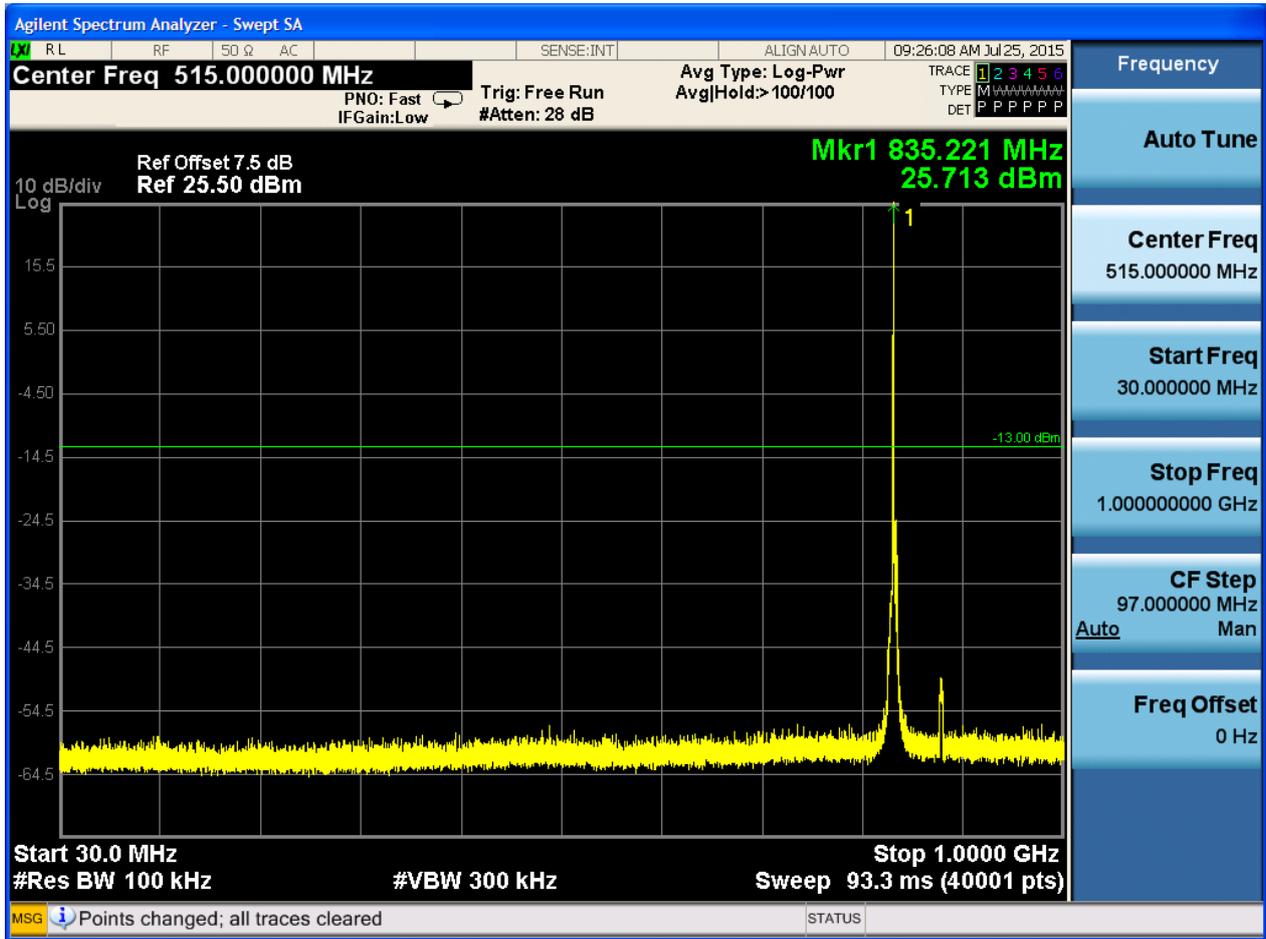


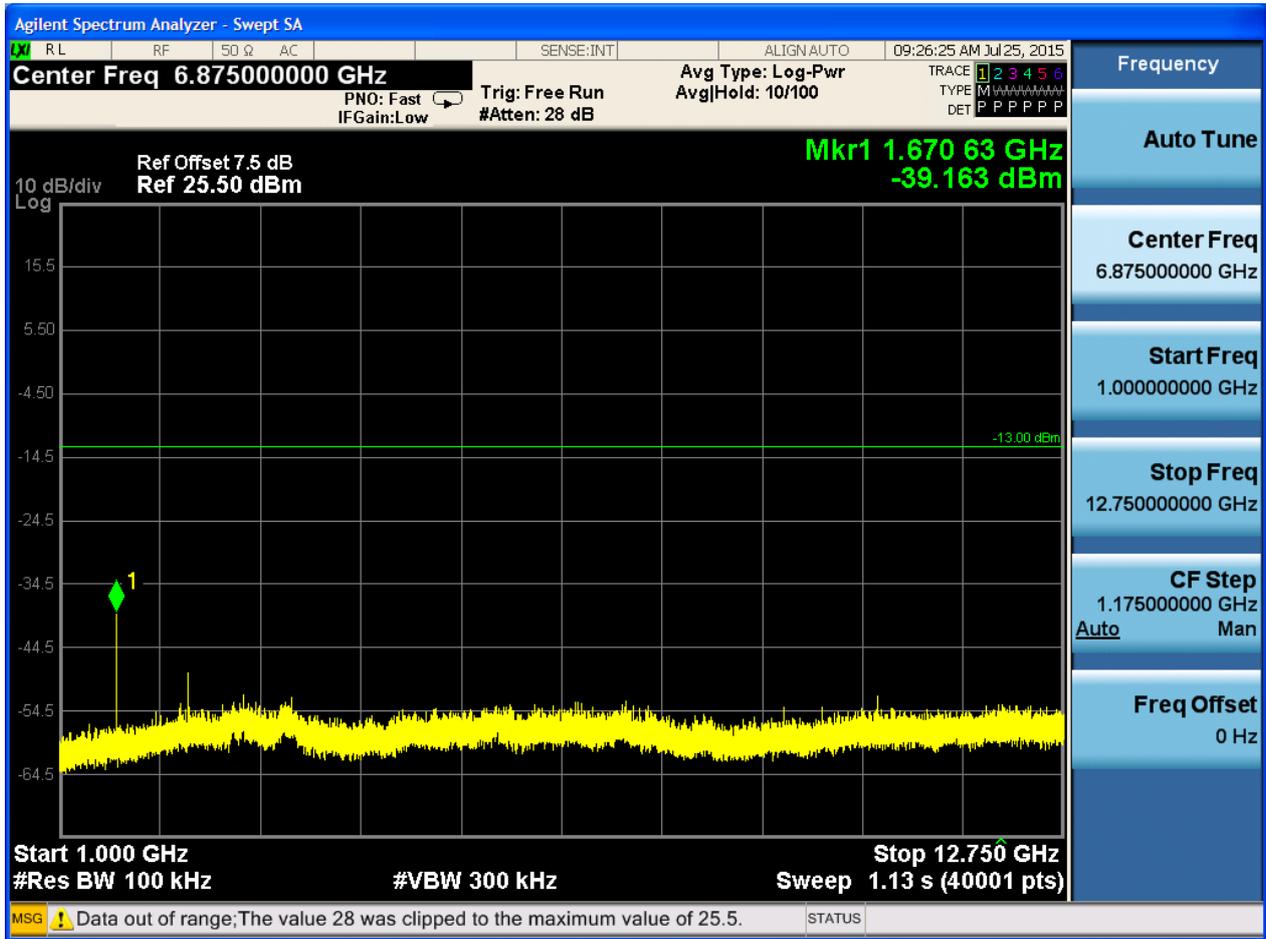
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



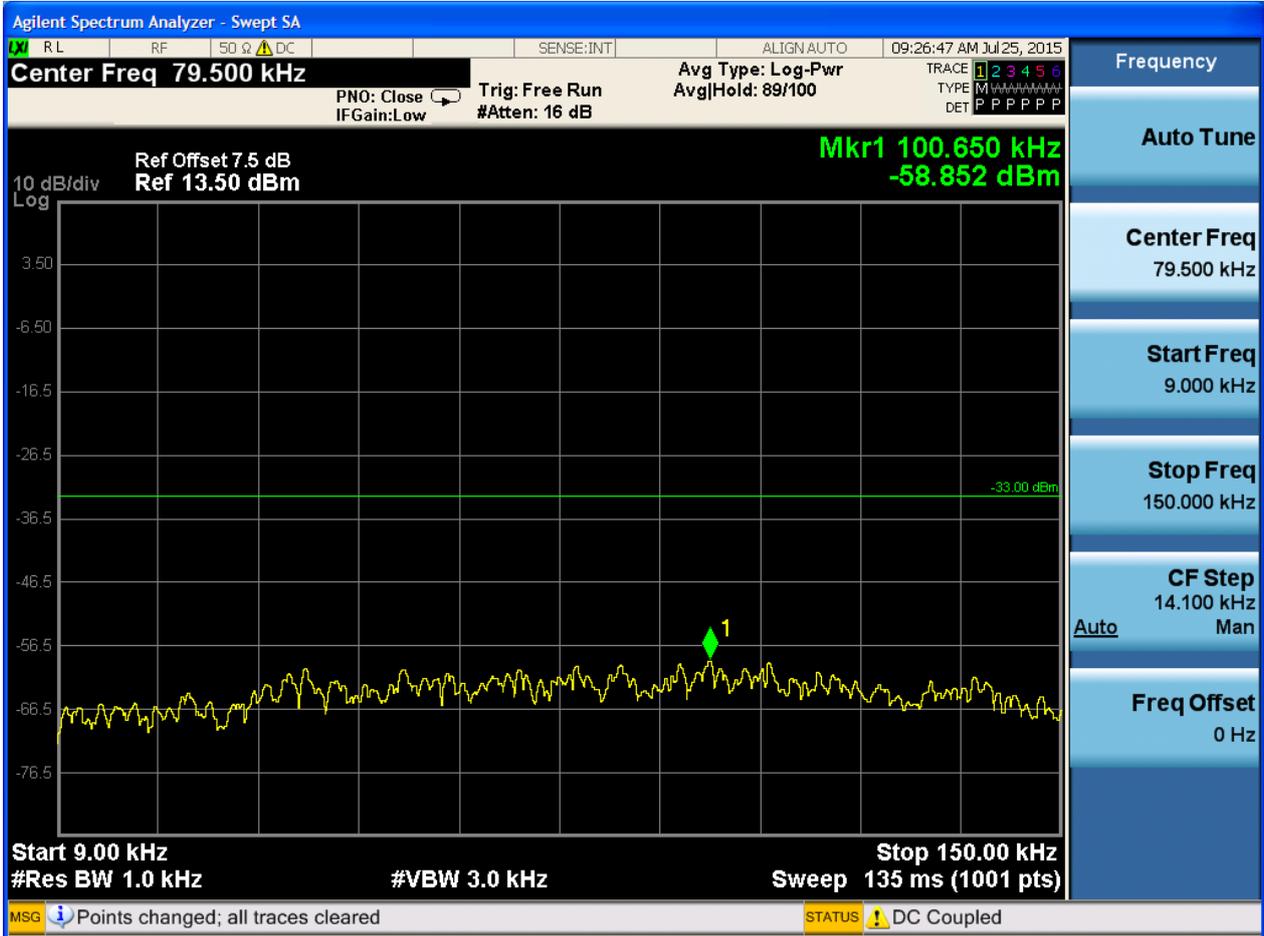




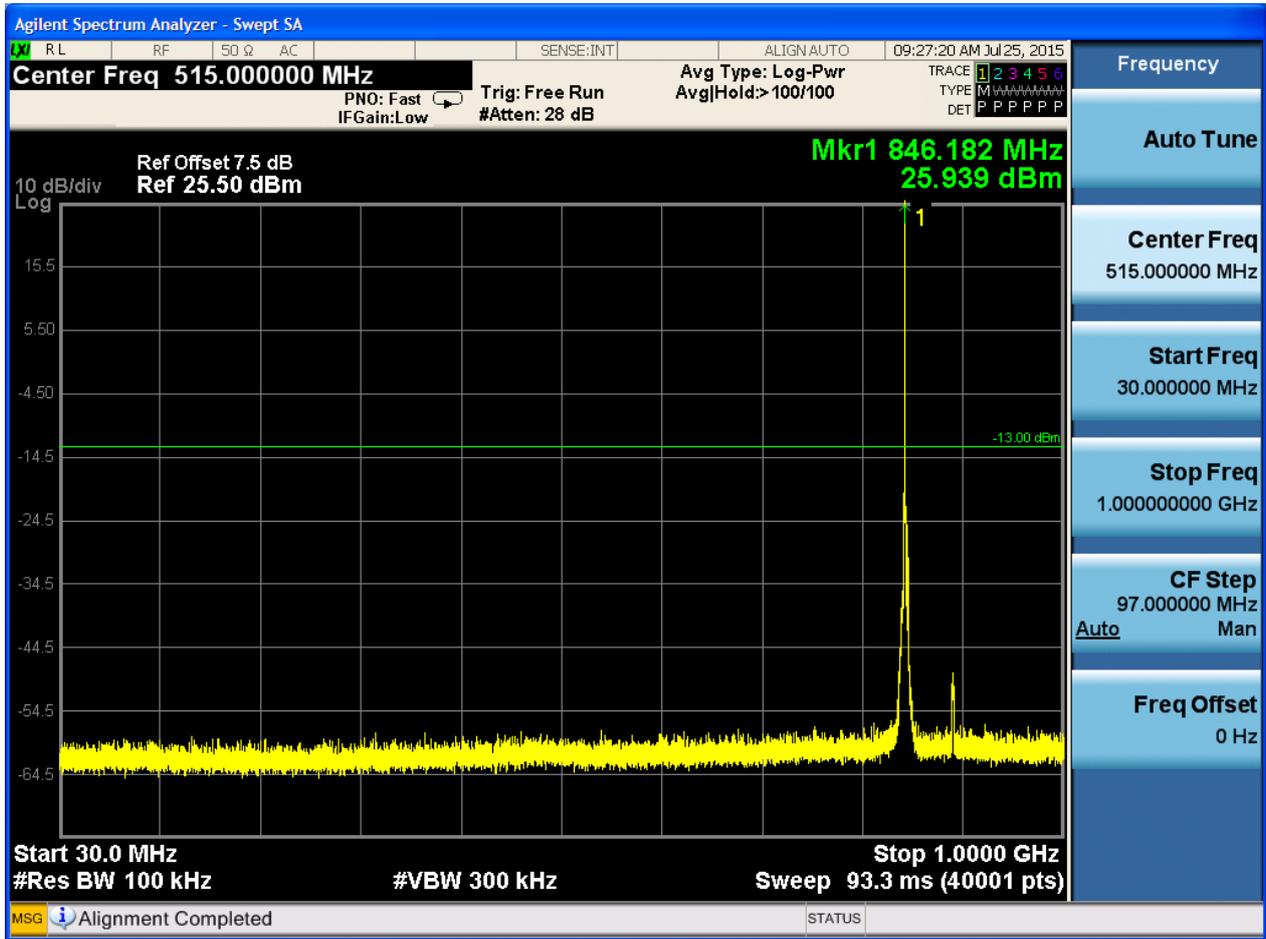


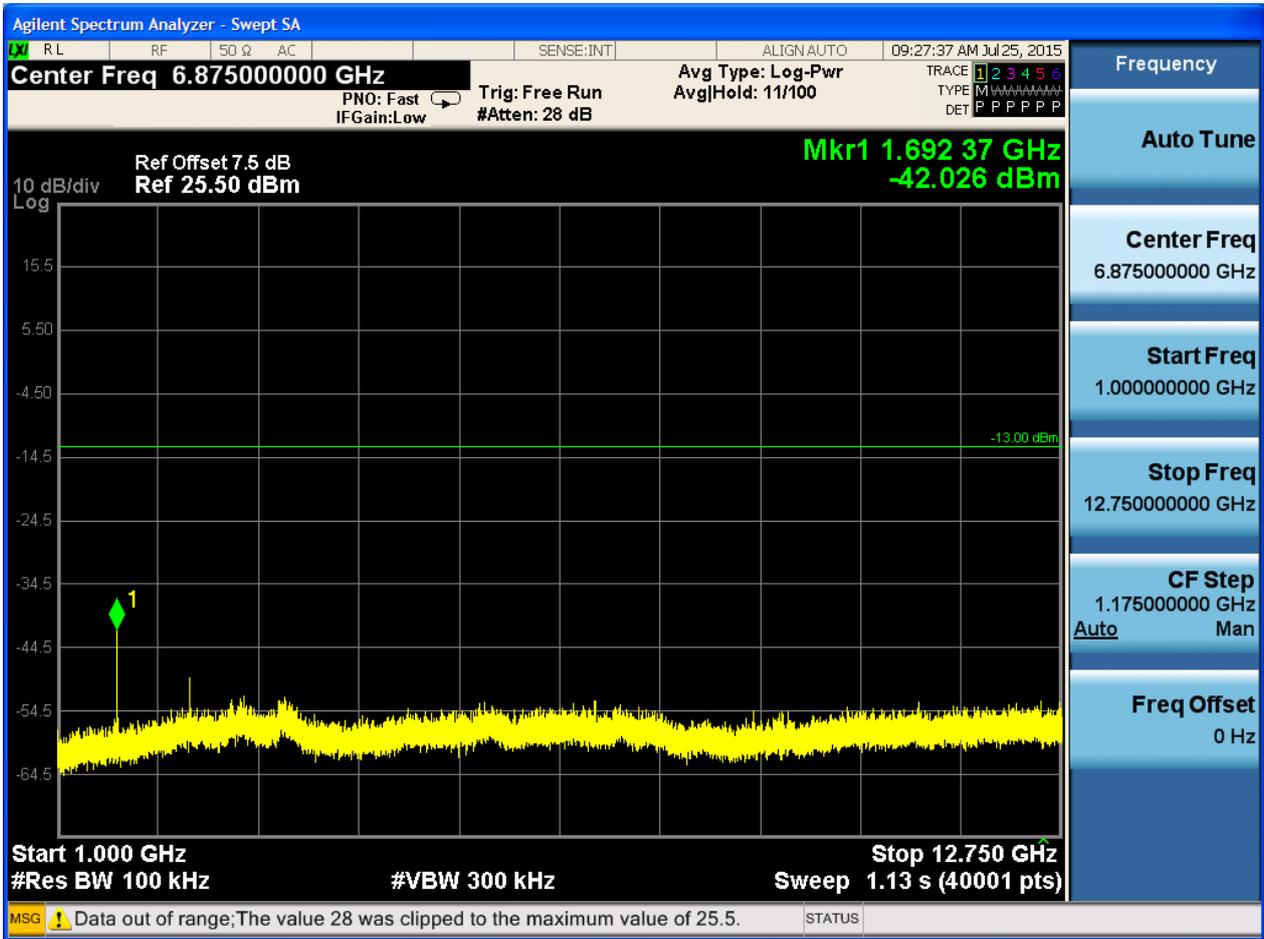
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0









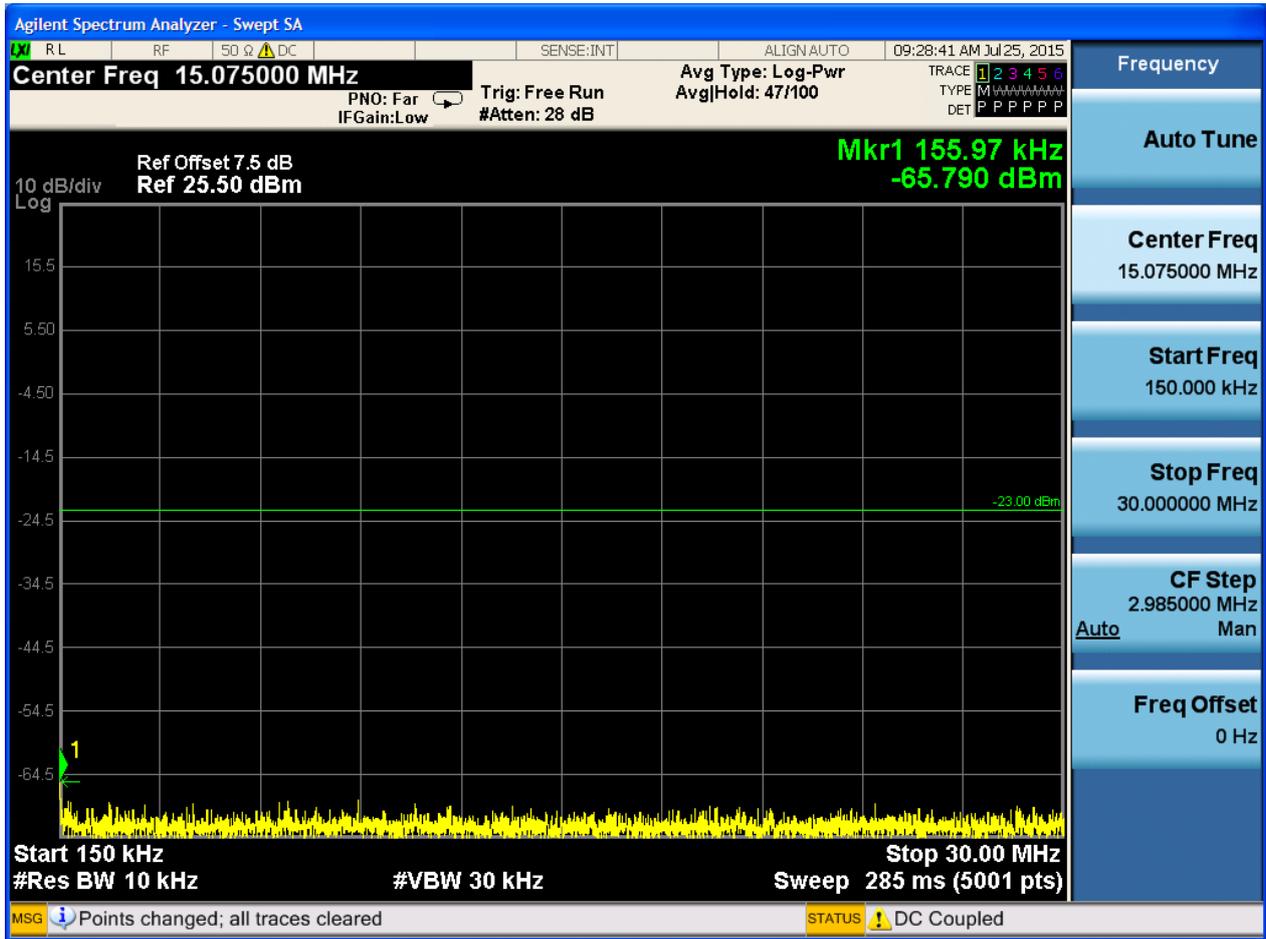


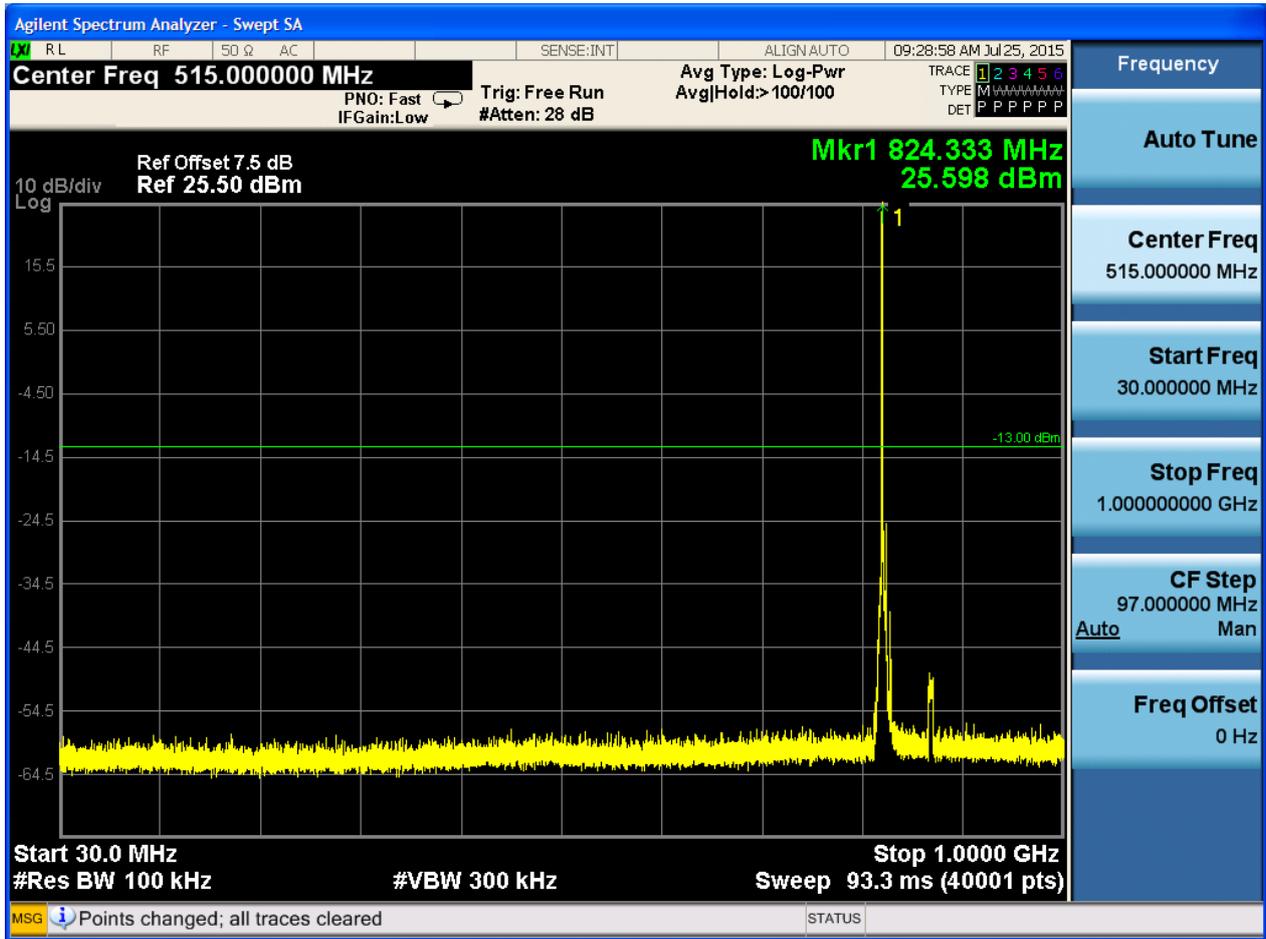
6.1.1.1.3 Test Bandwidth = 5

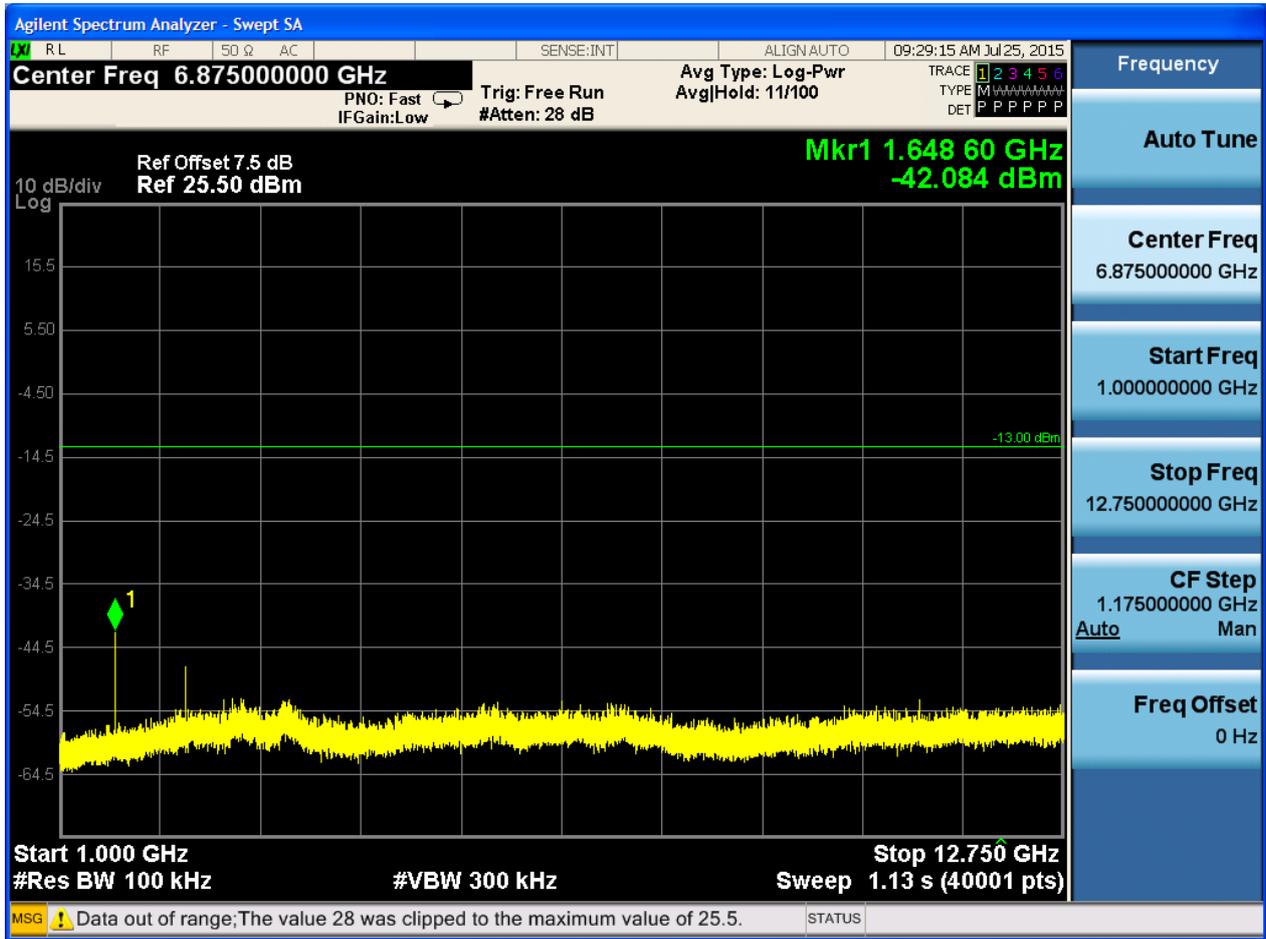
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





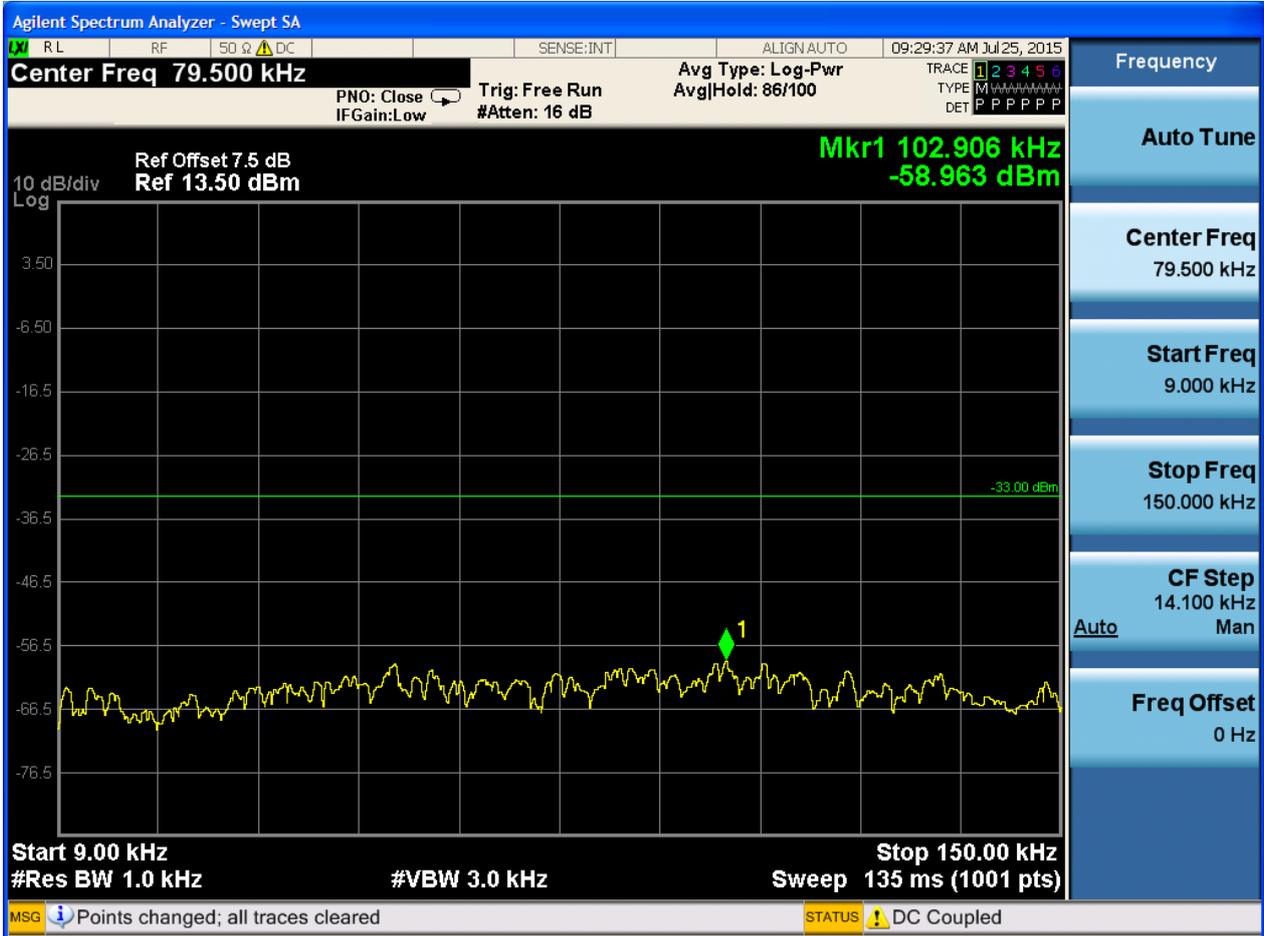




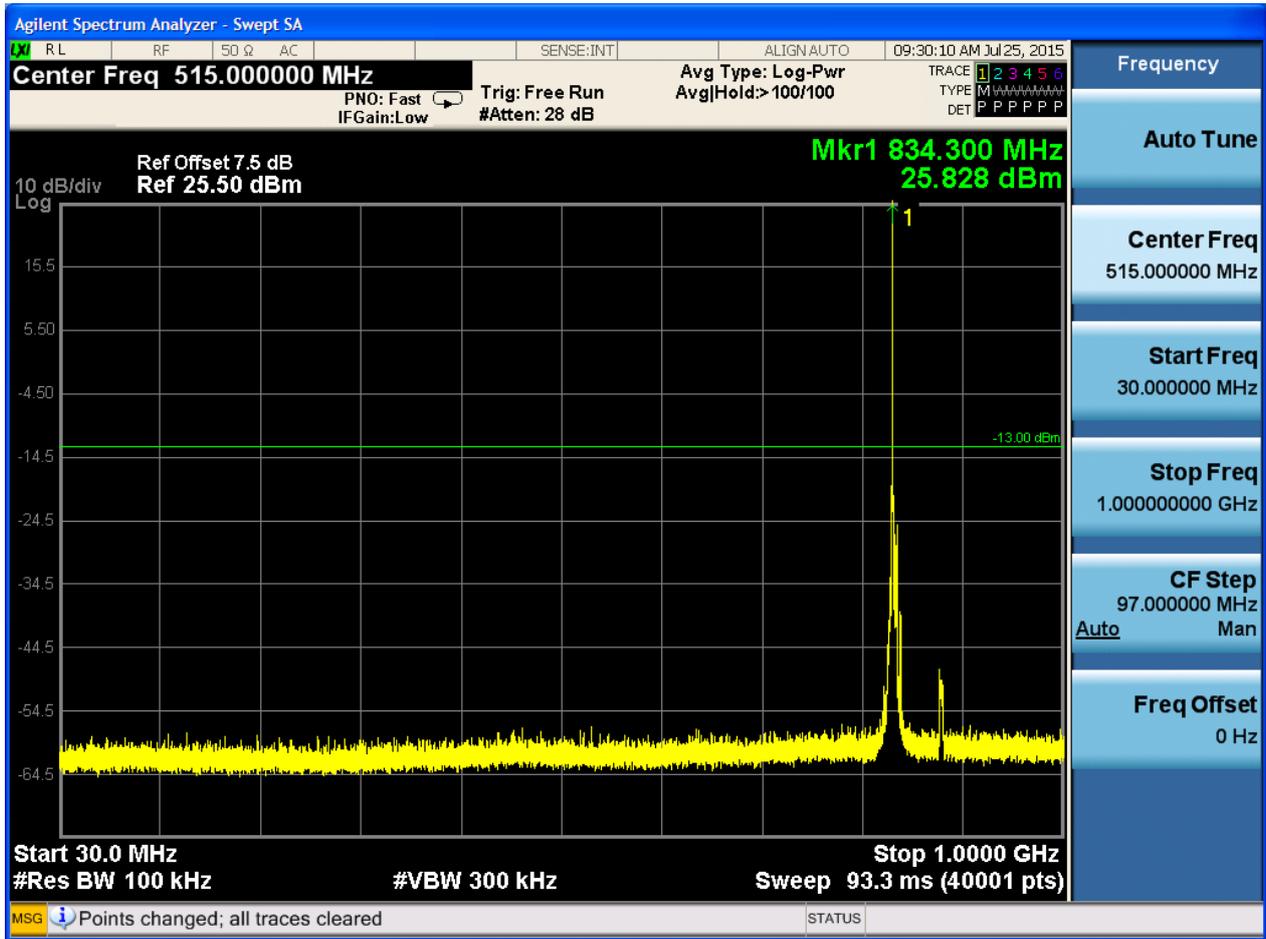


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



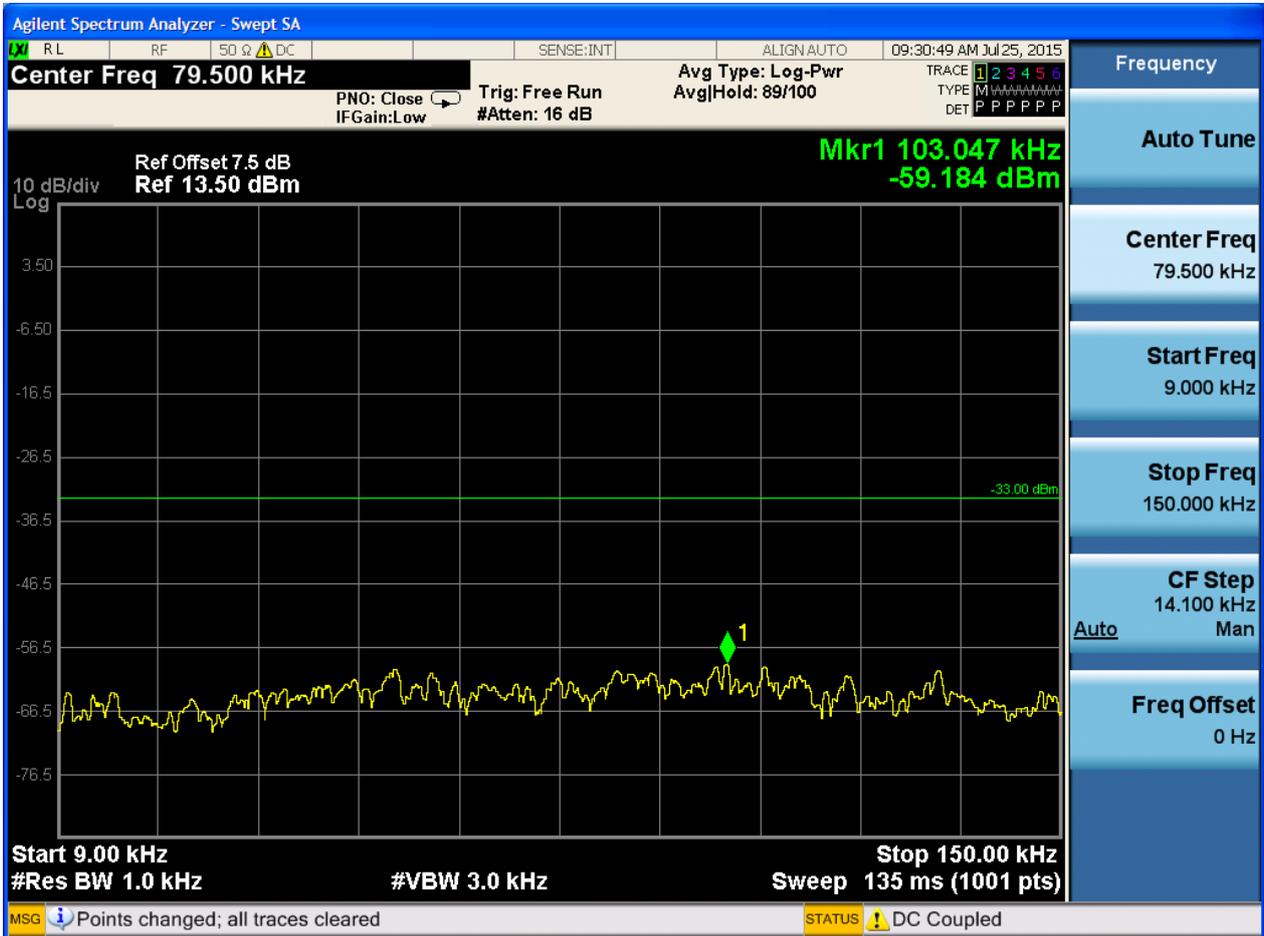


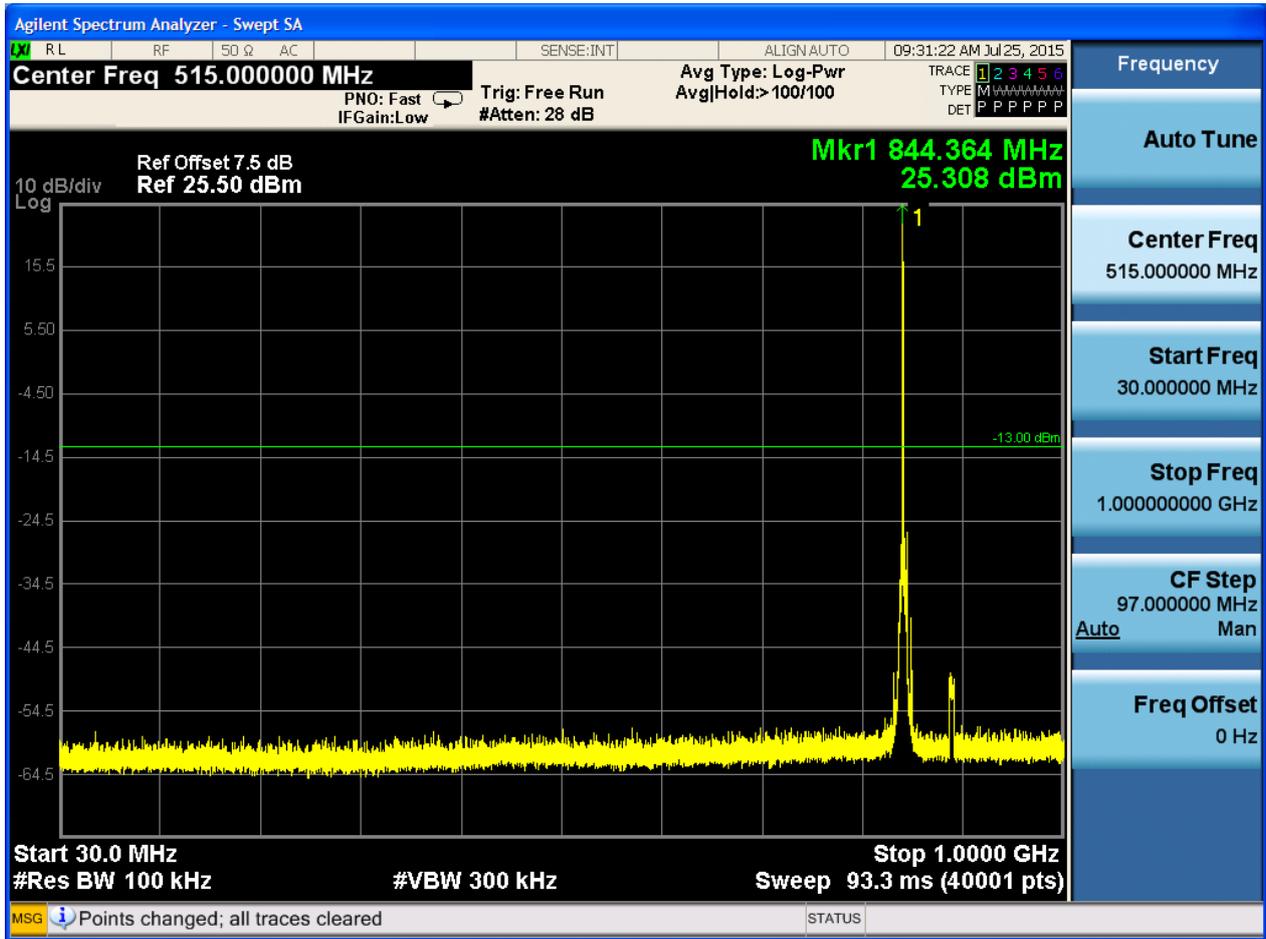


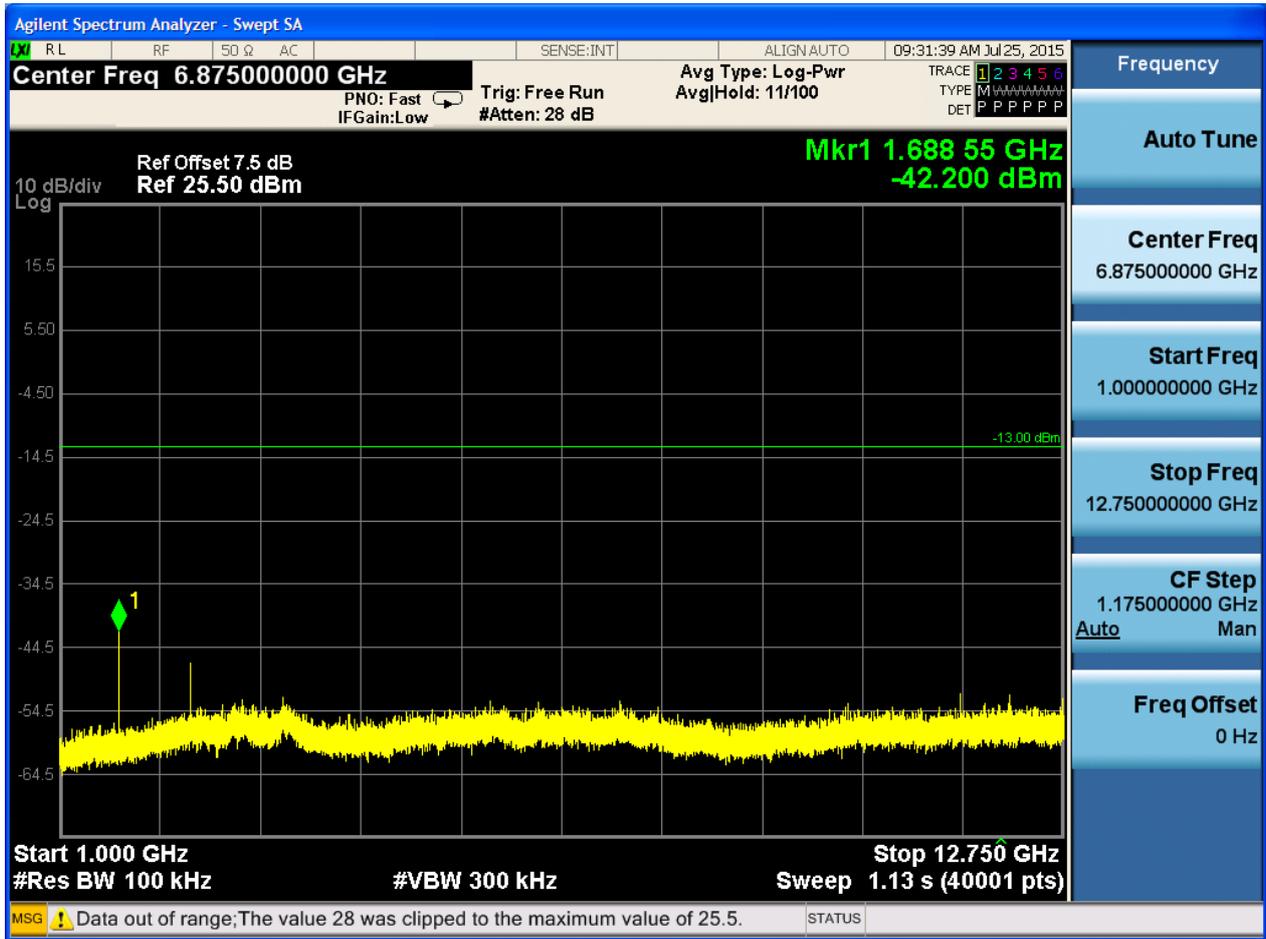


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





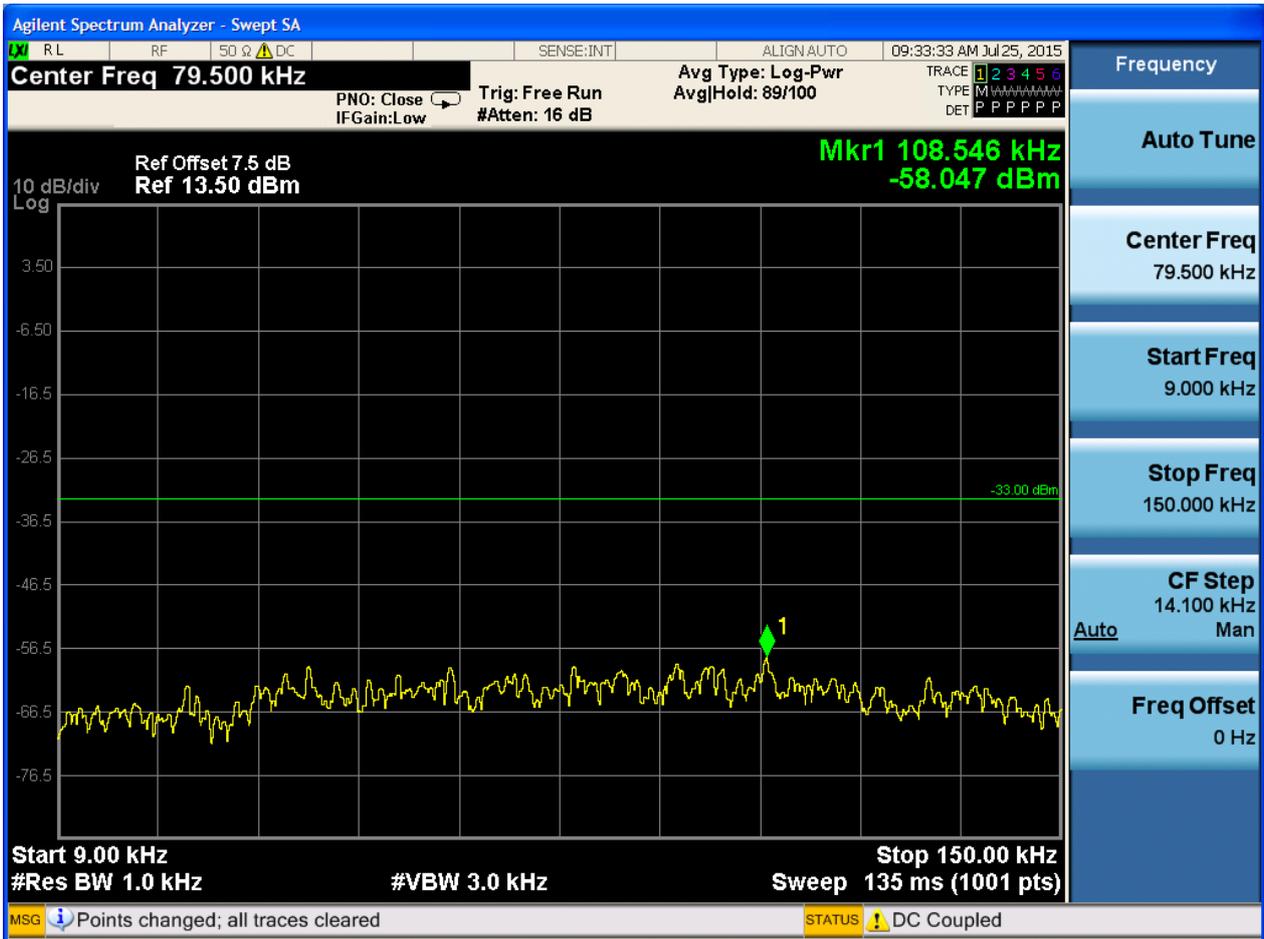


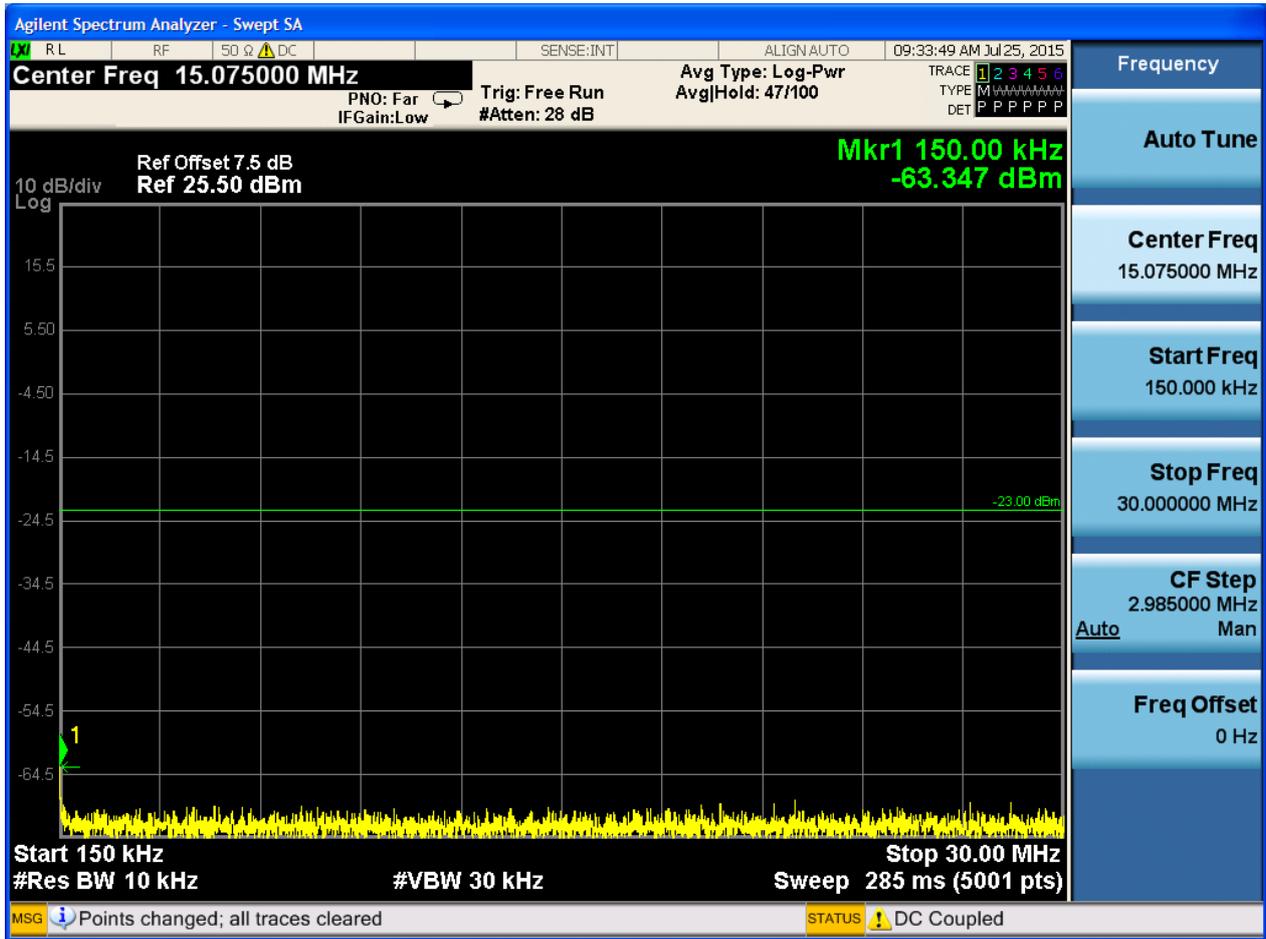


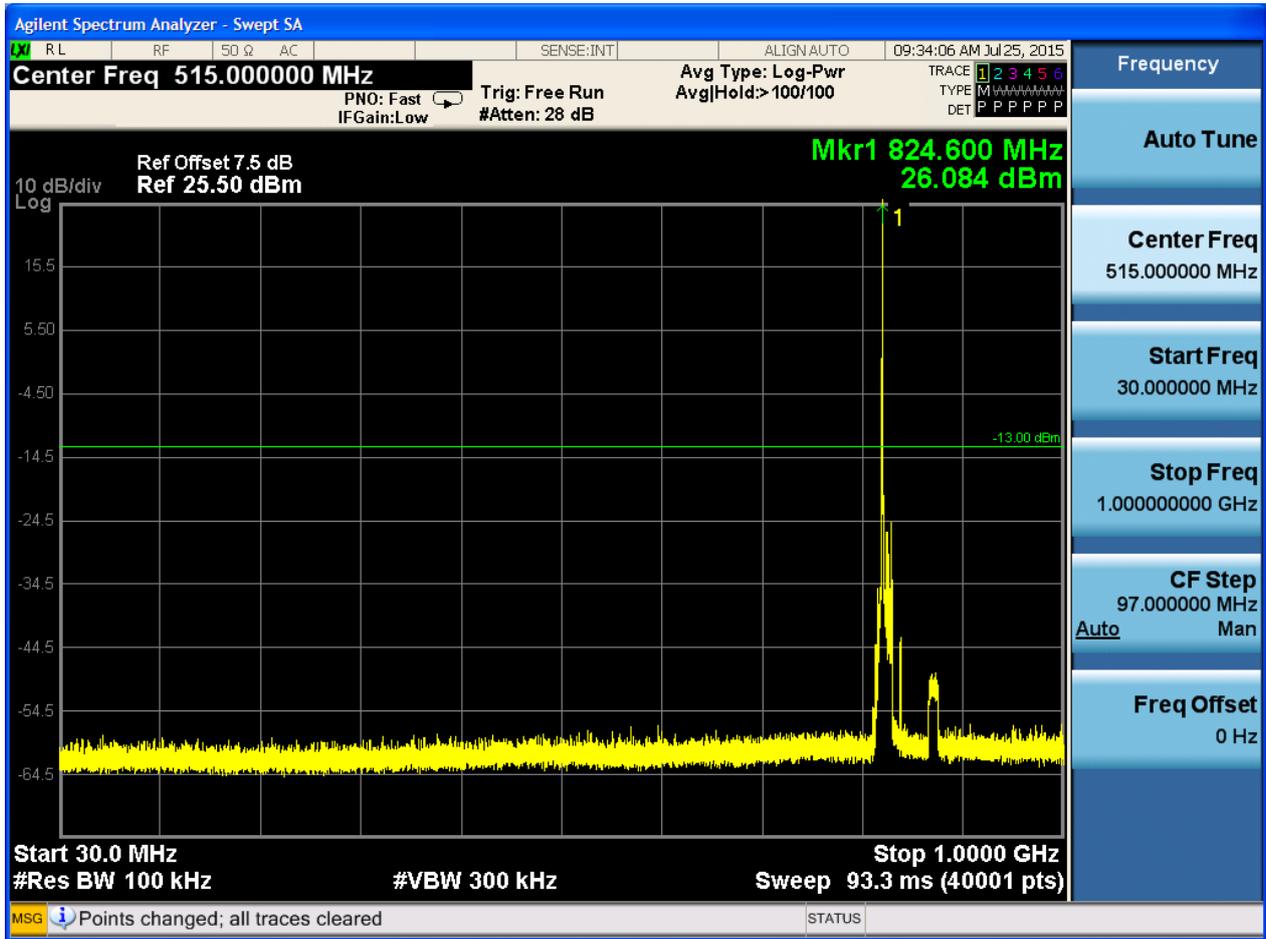
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



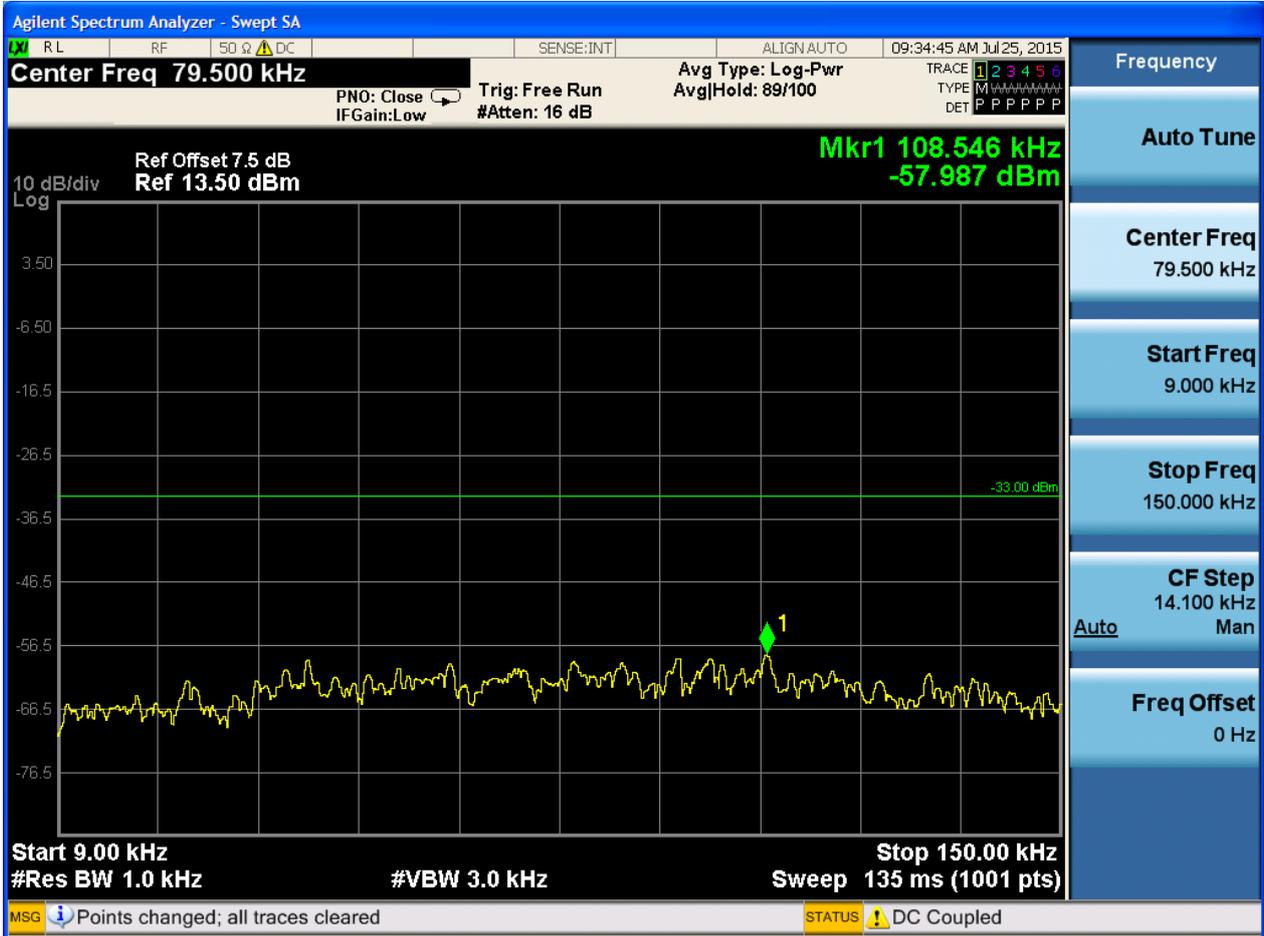




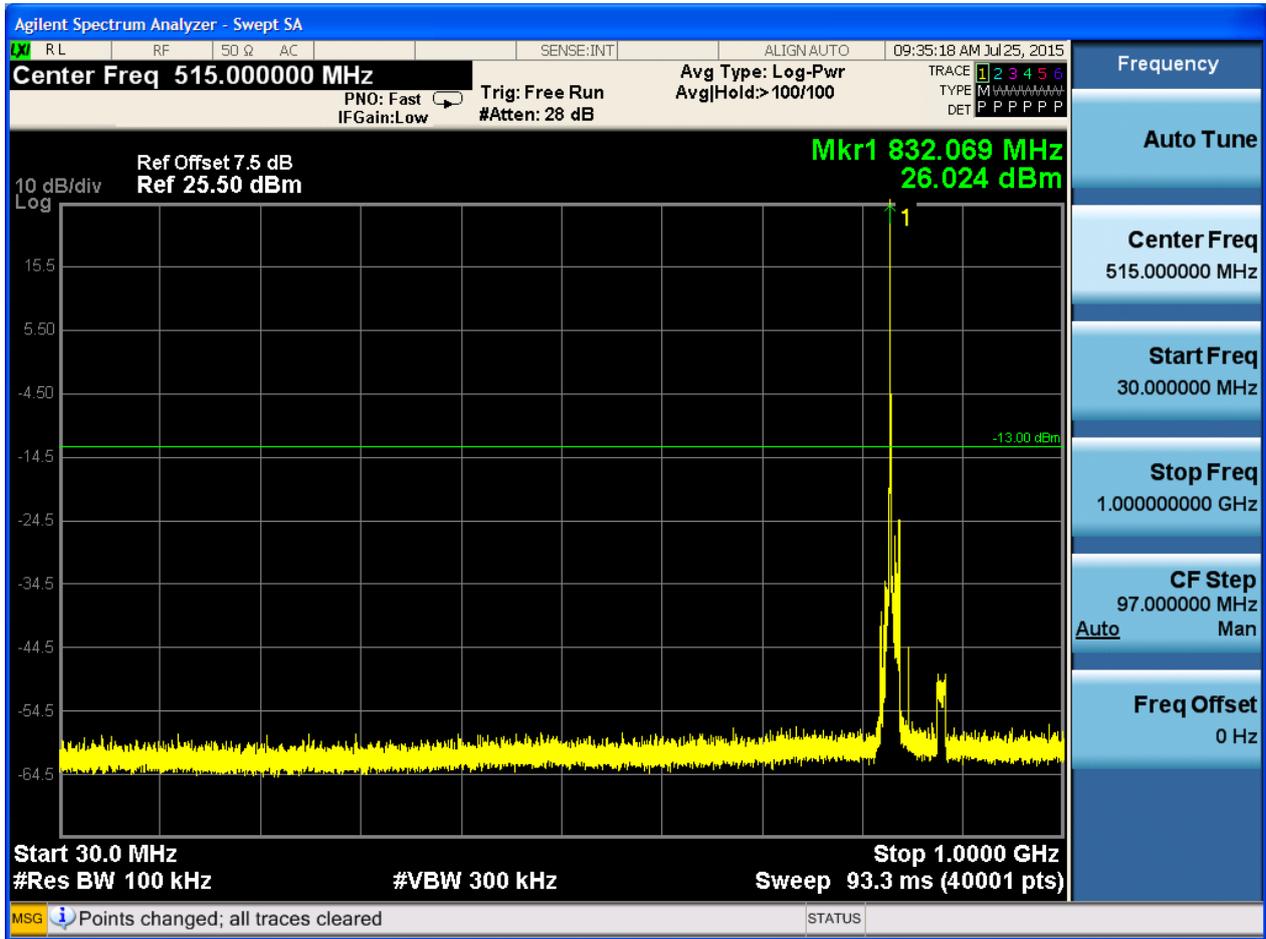


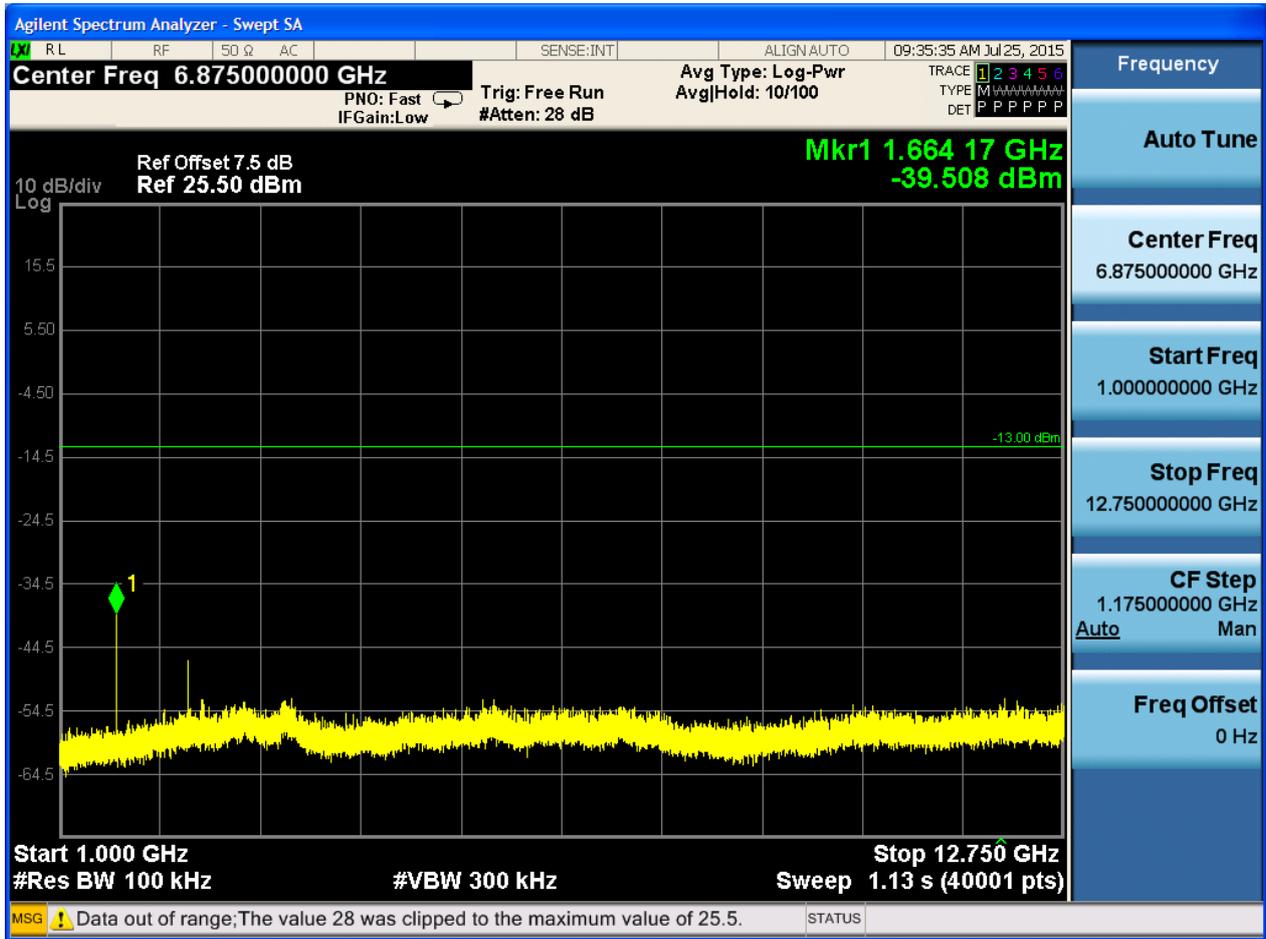
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

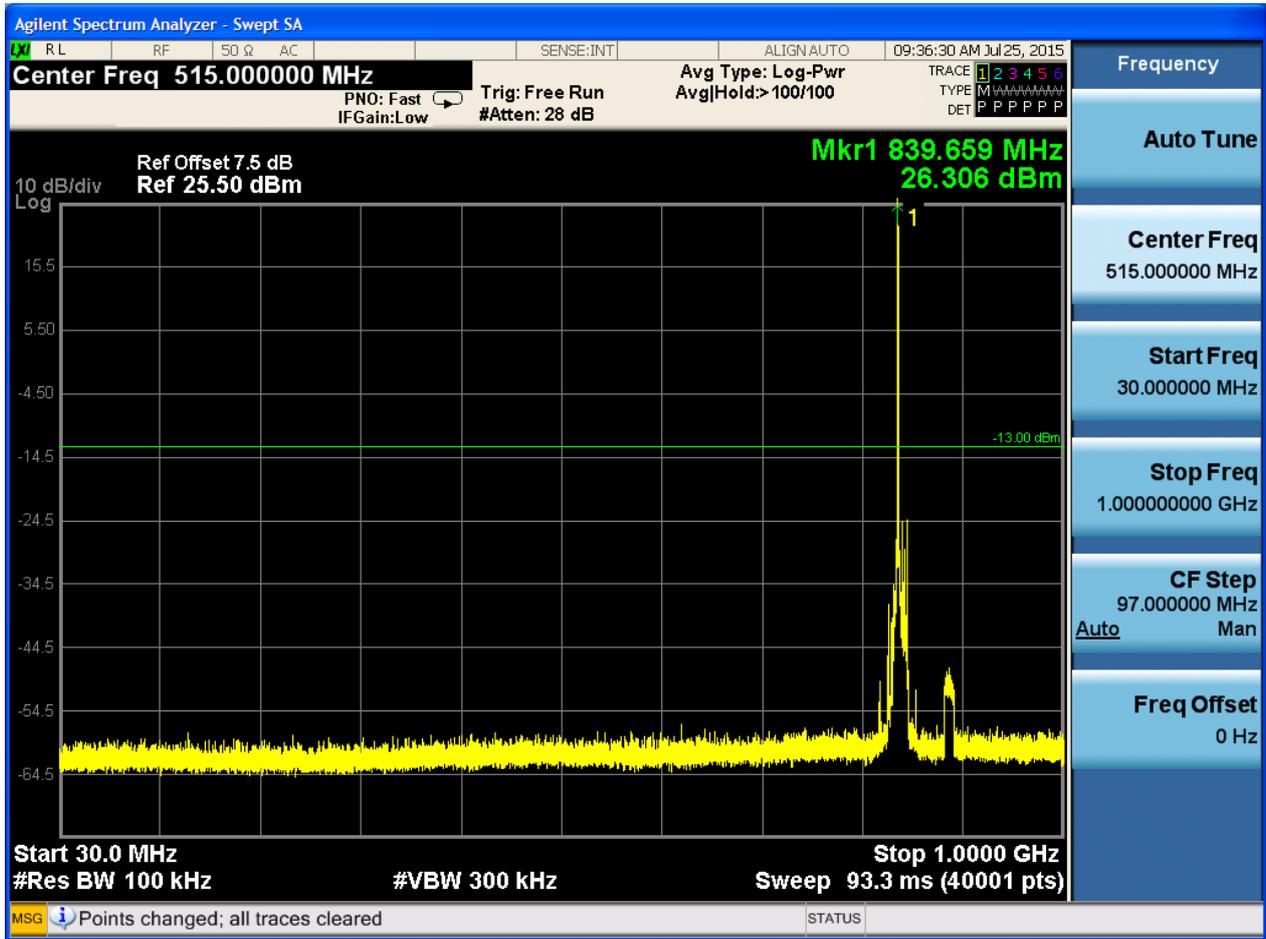


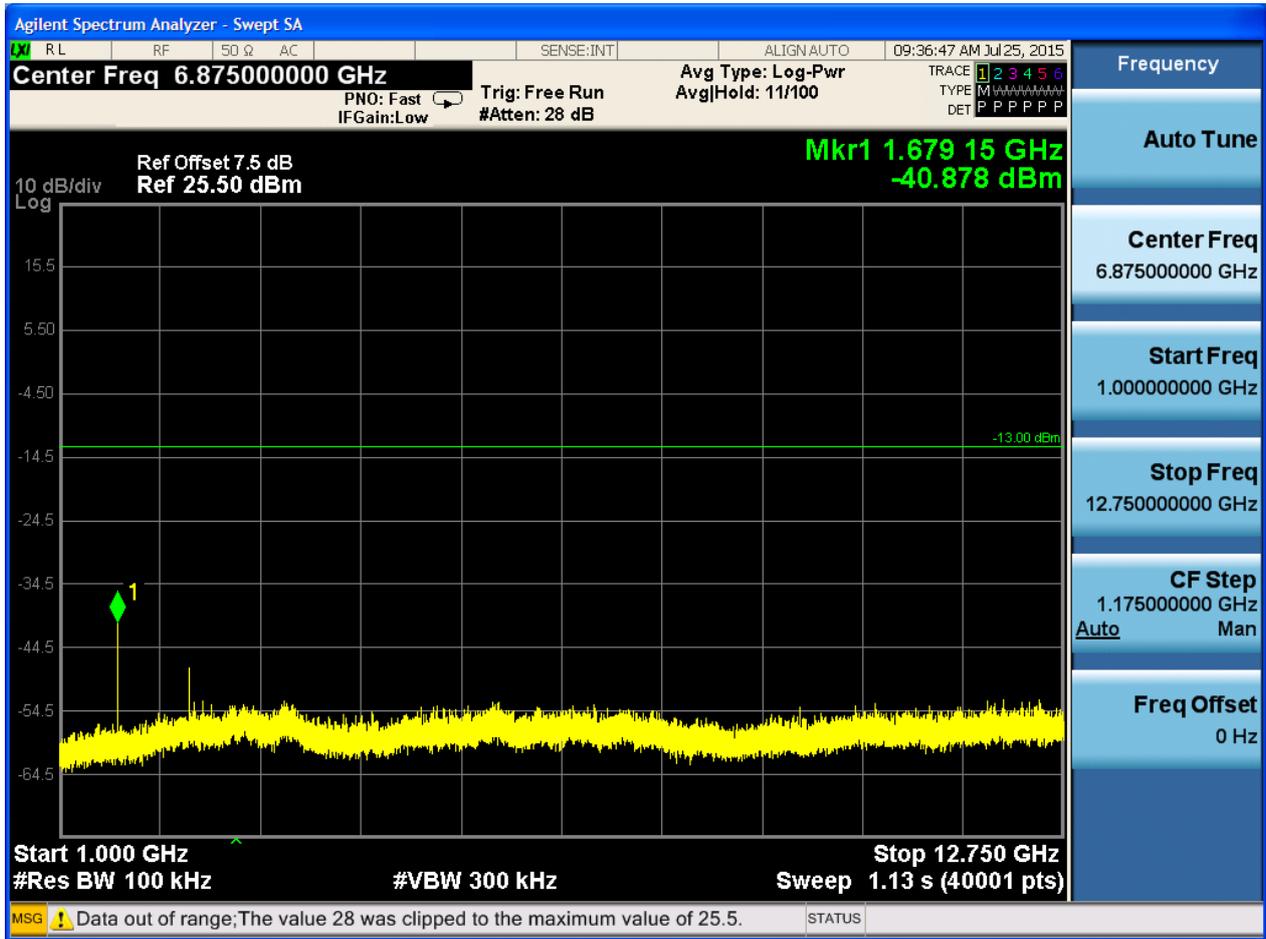












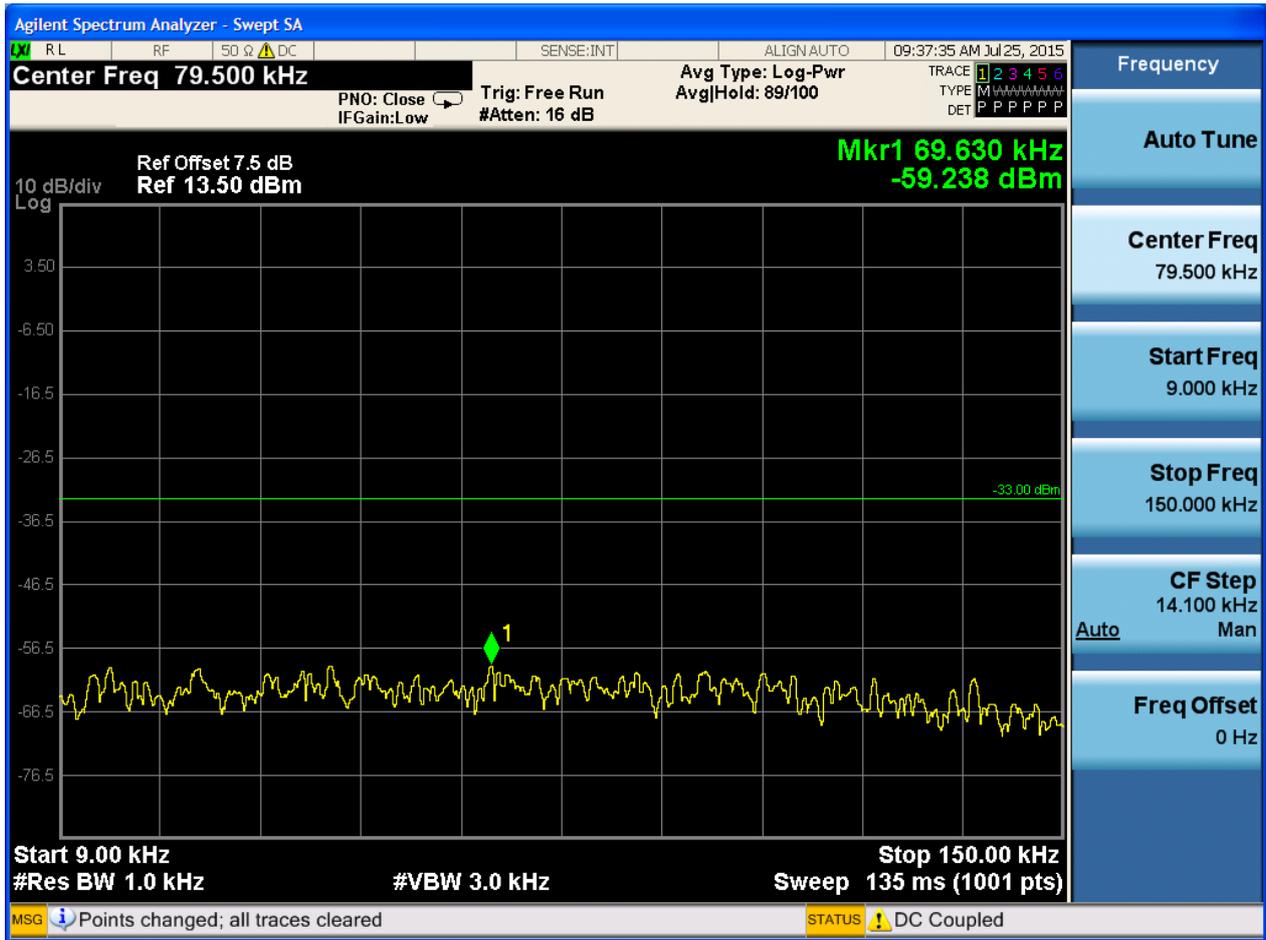


6.1.1.2 Test Mode = LTE/TM2

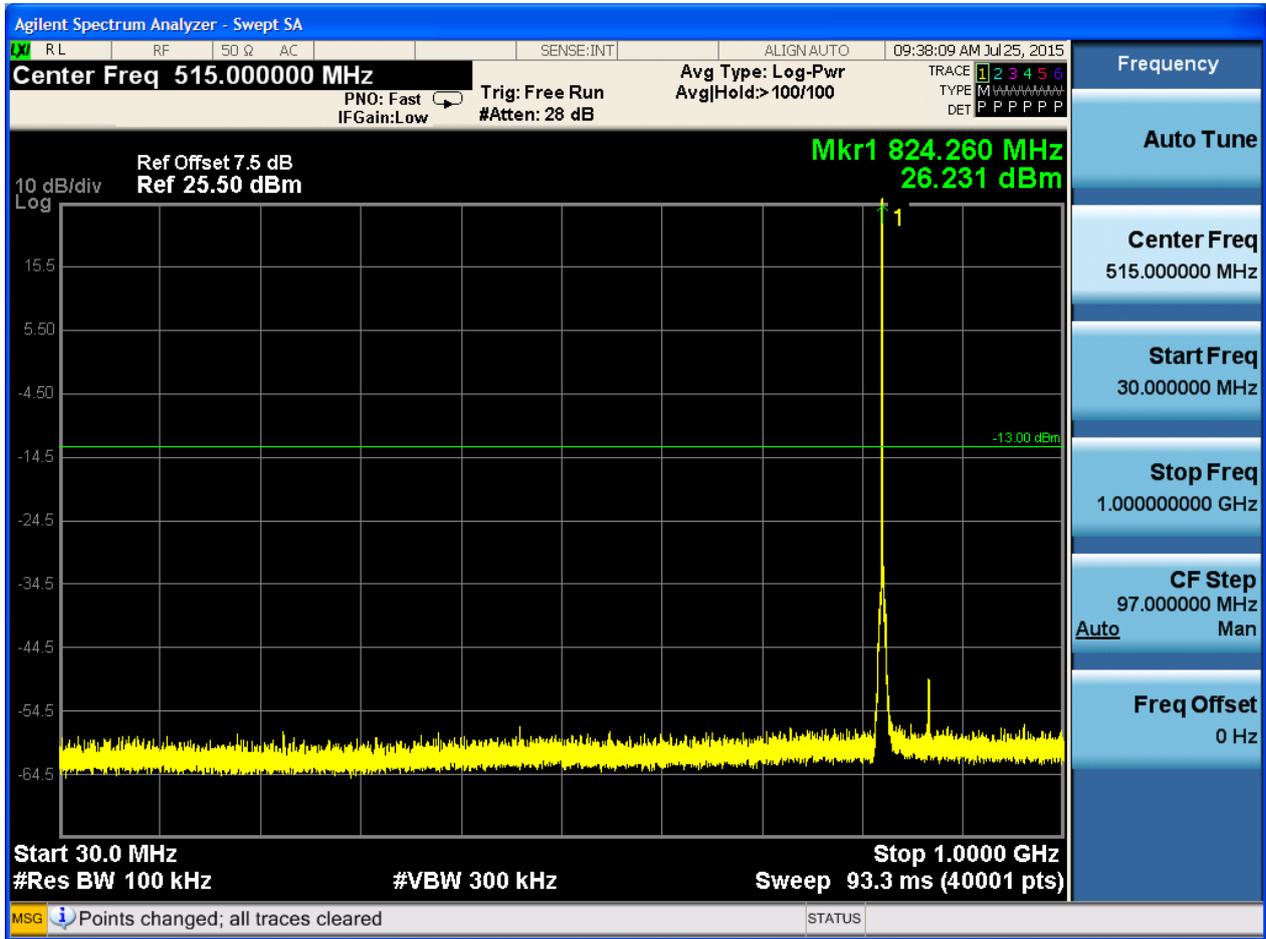
6.1.1.2.1 Test Bandwidth = 1.4

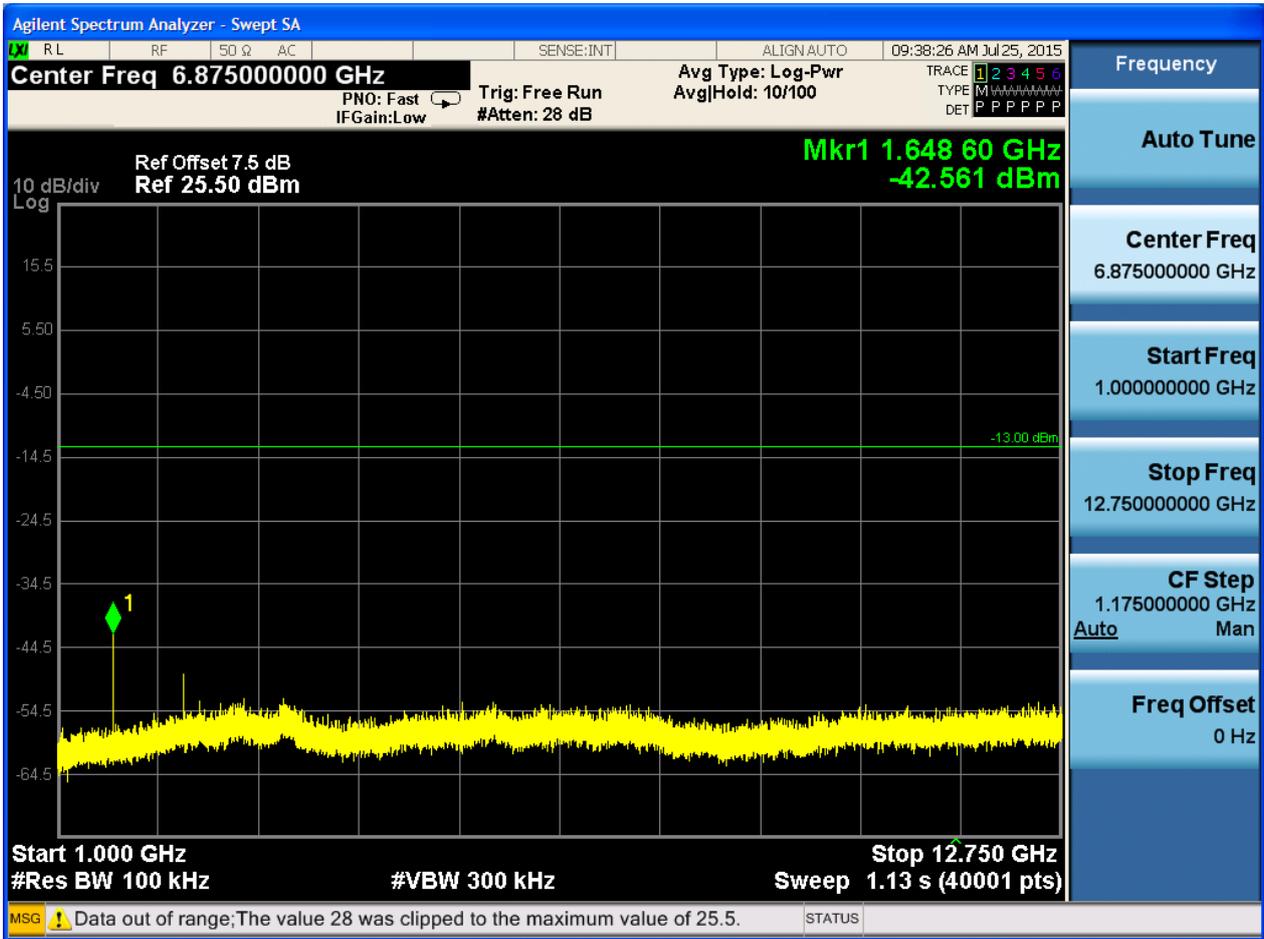
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





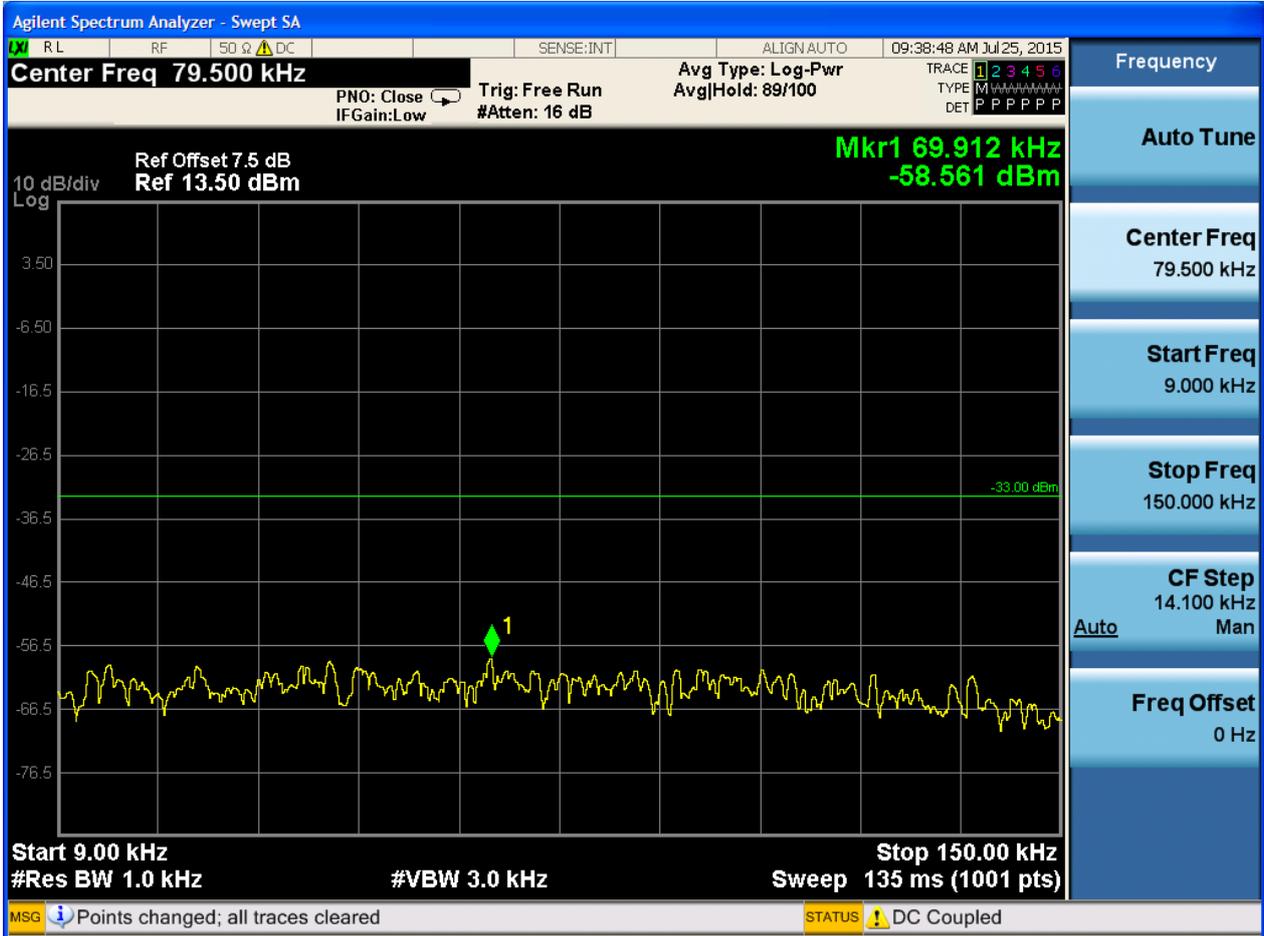




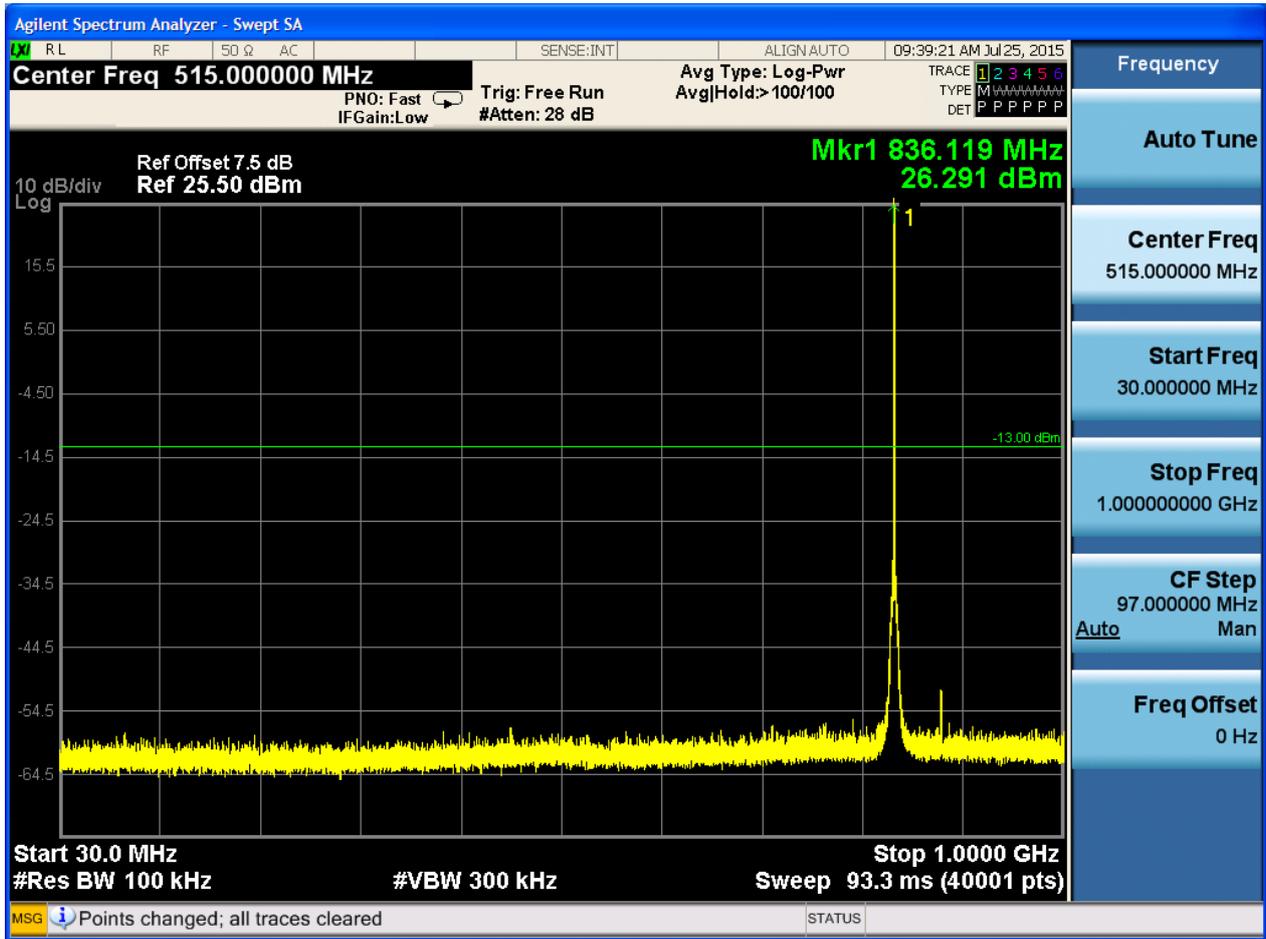


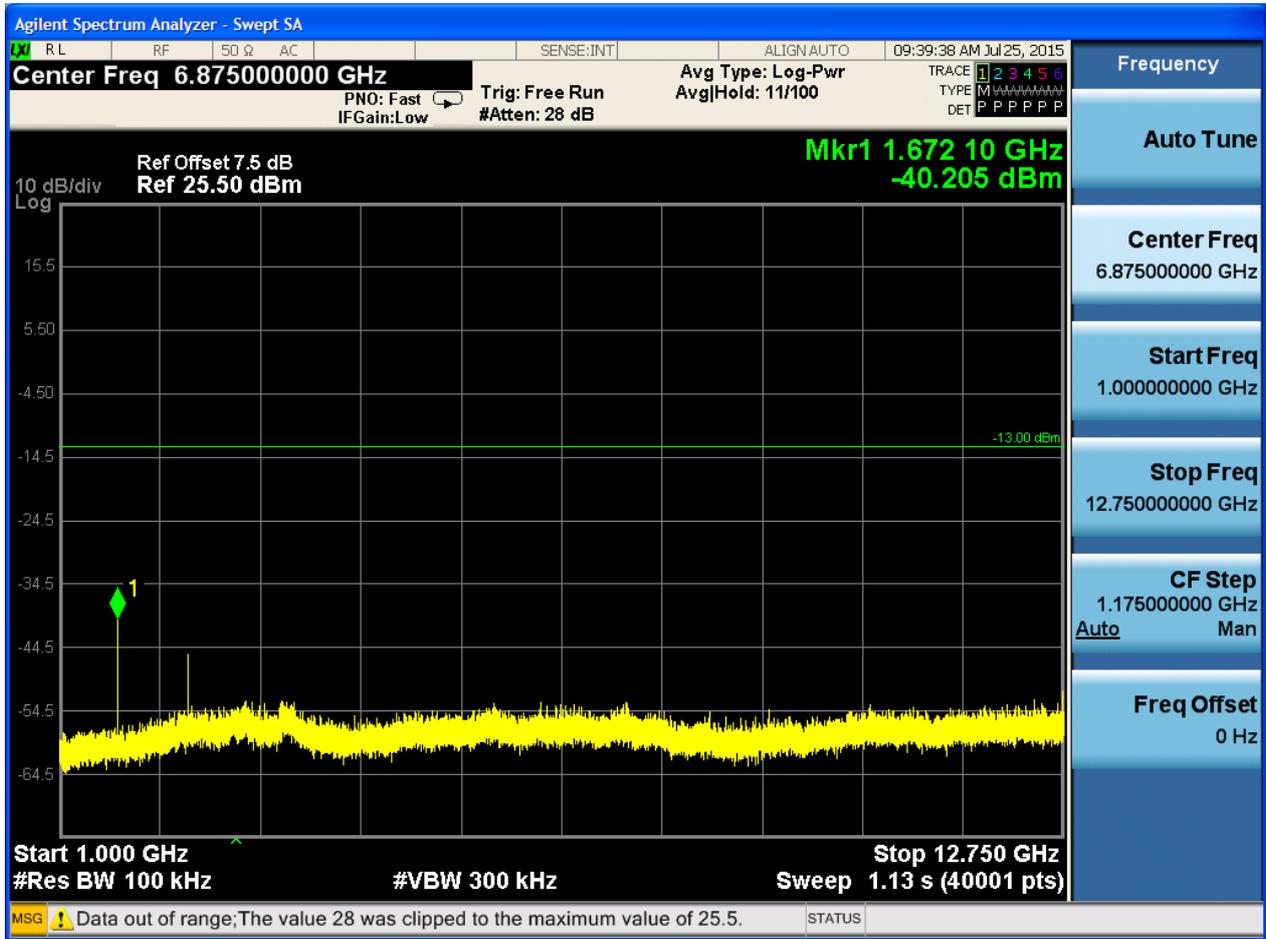
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





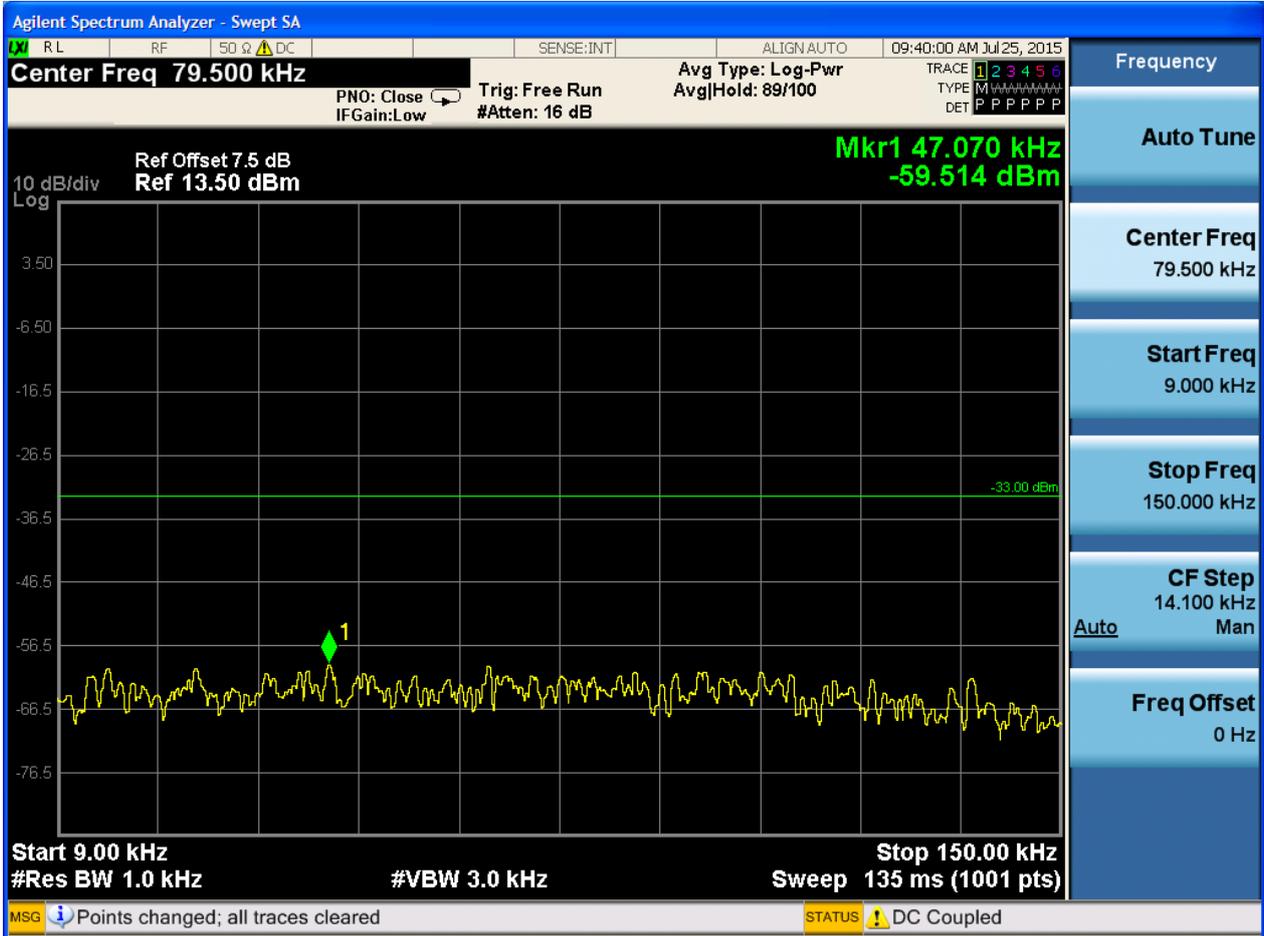


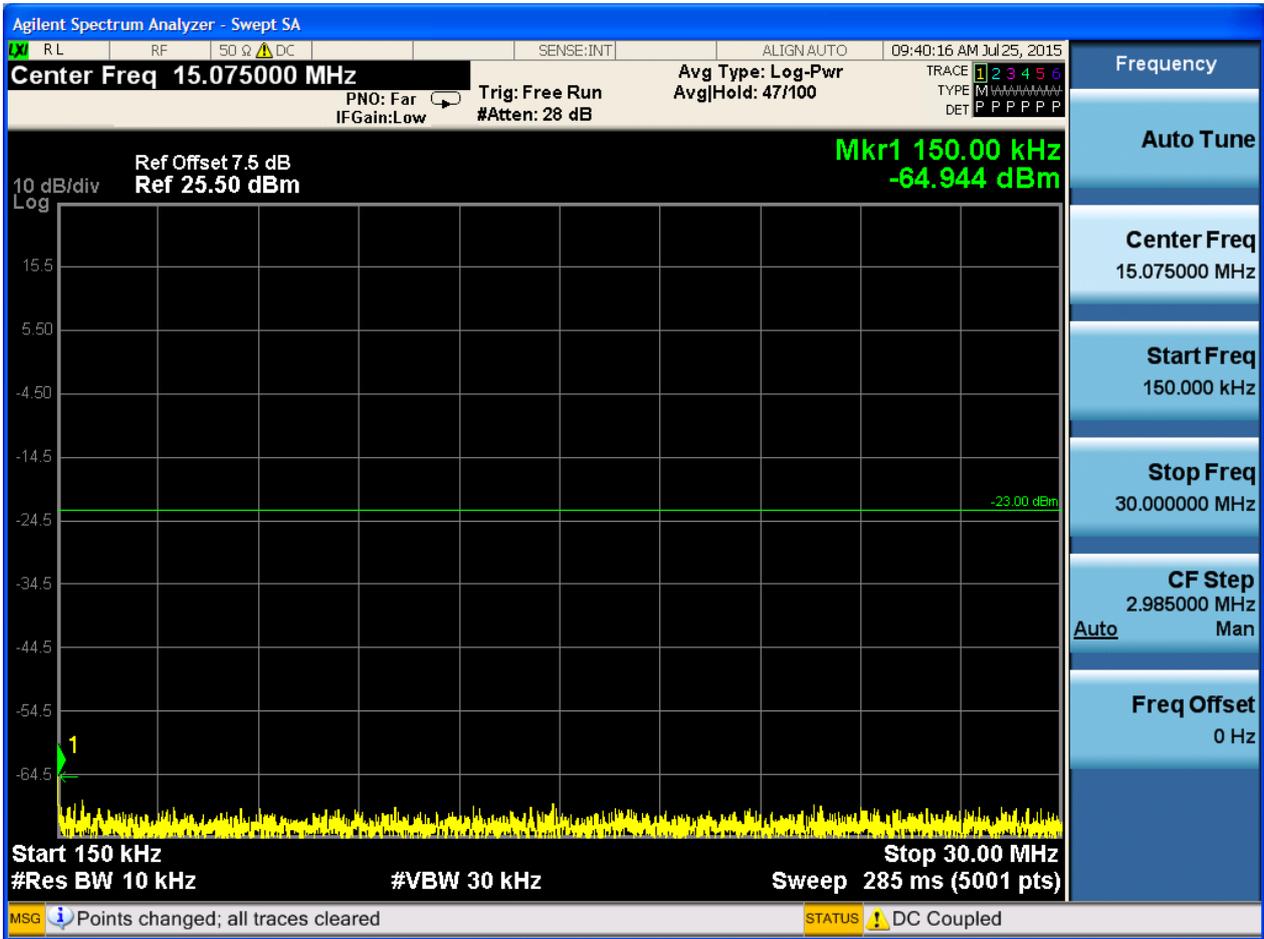


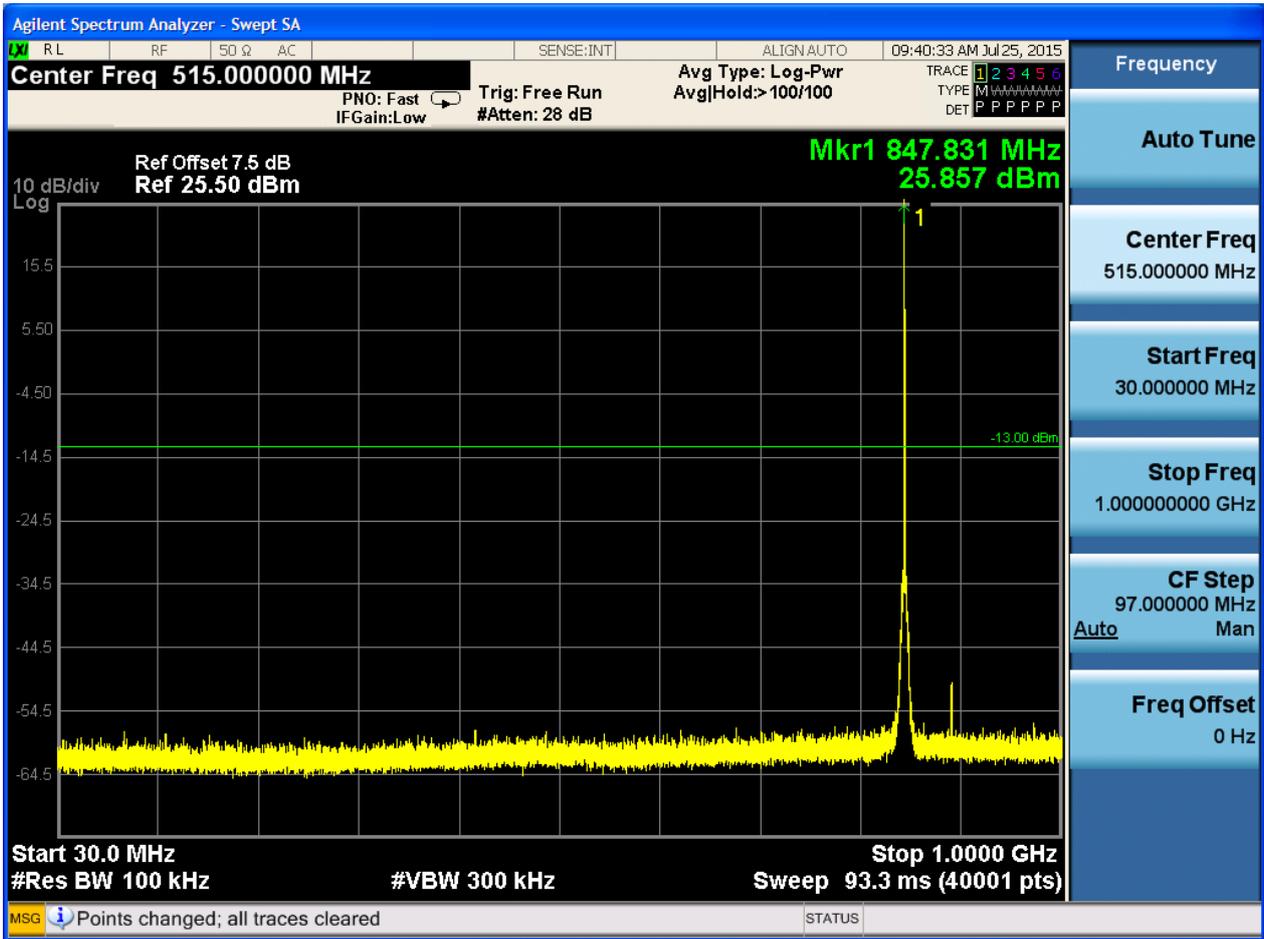


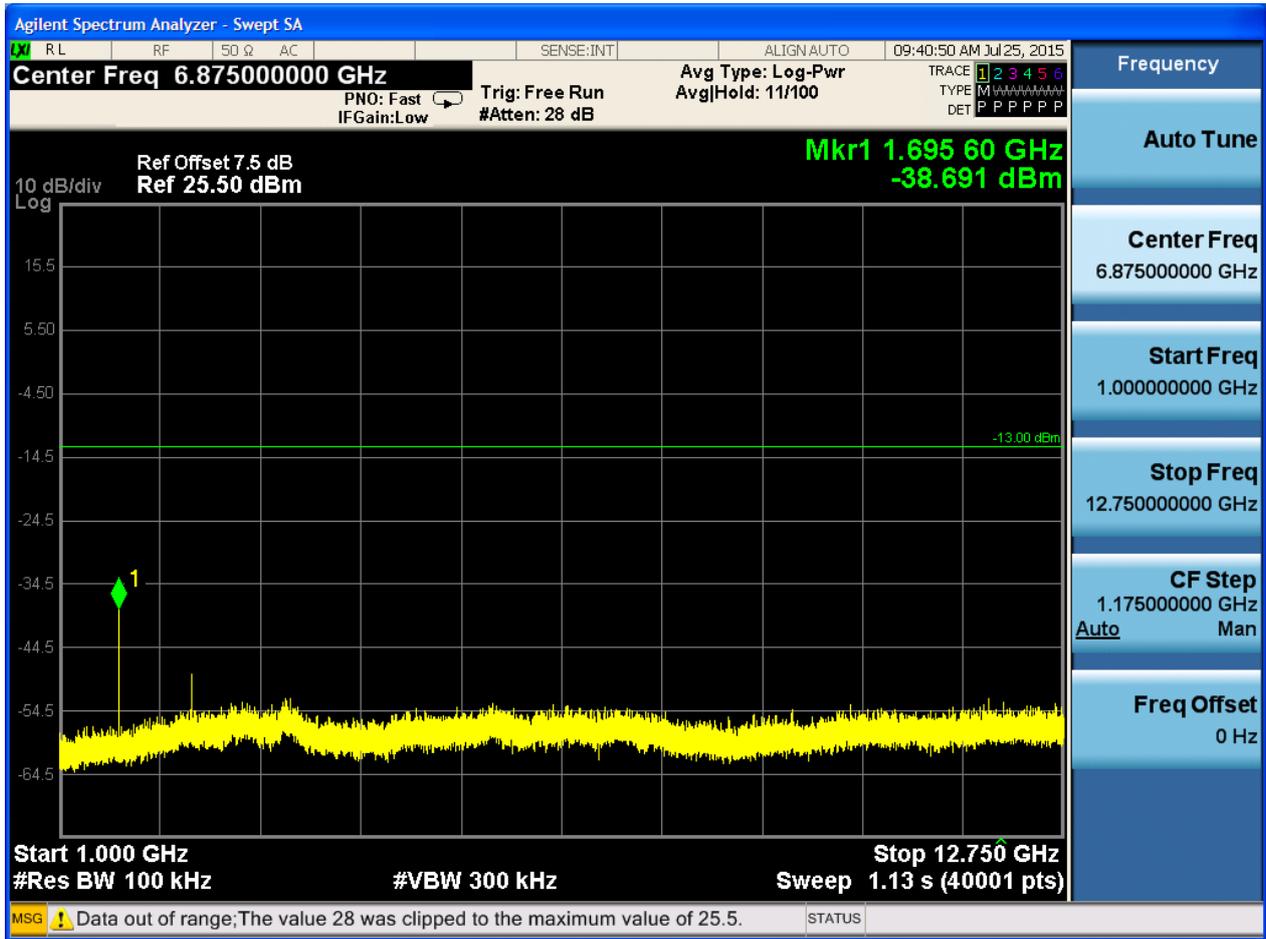
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







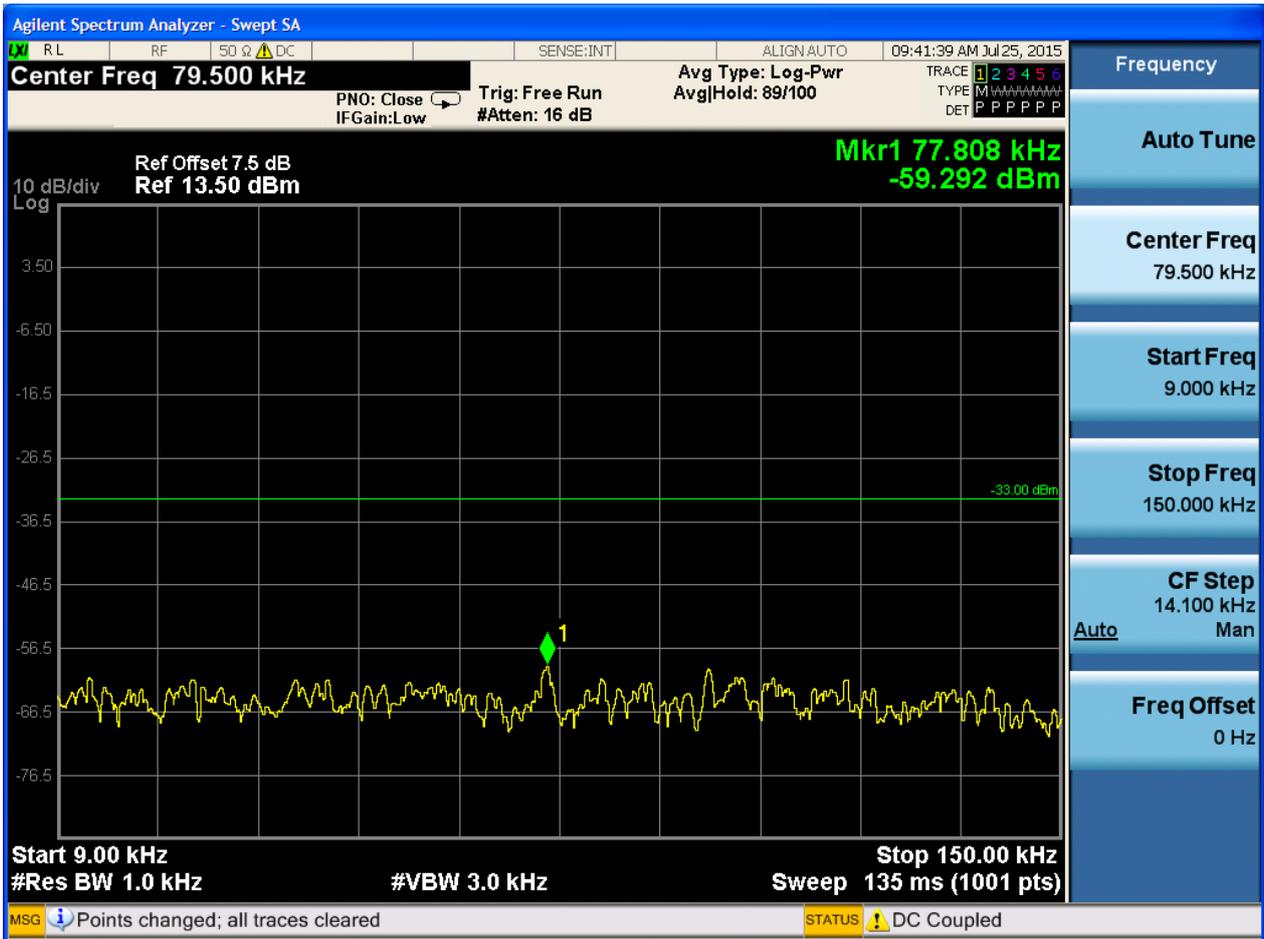


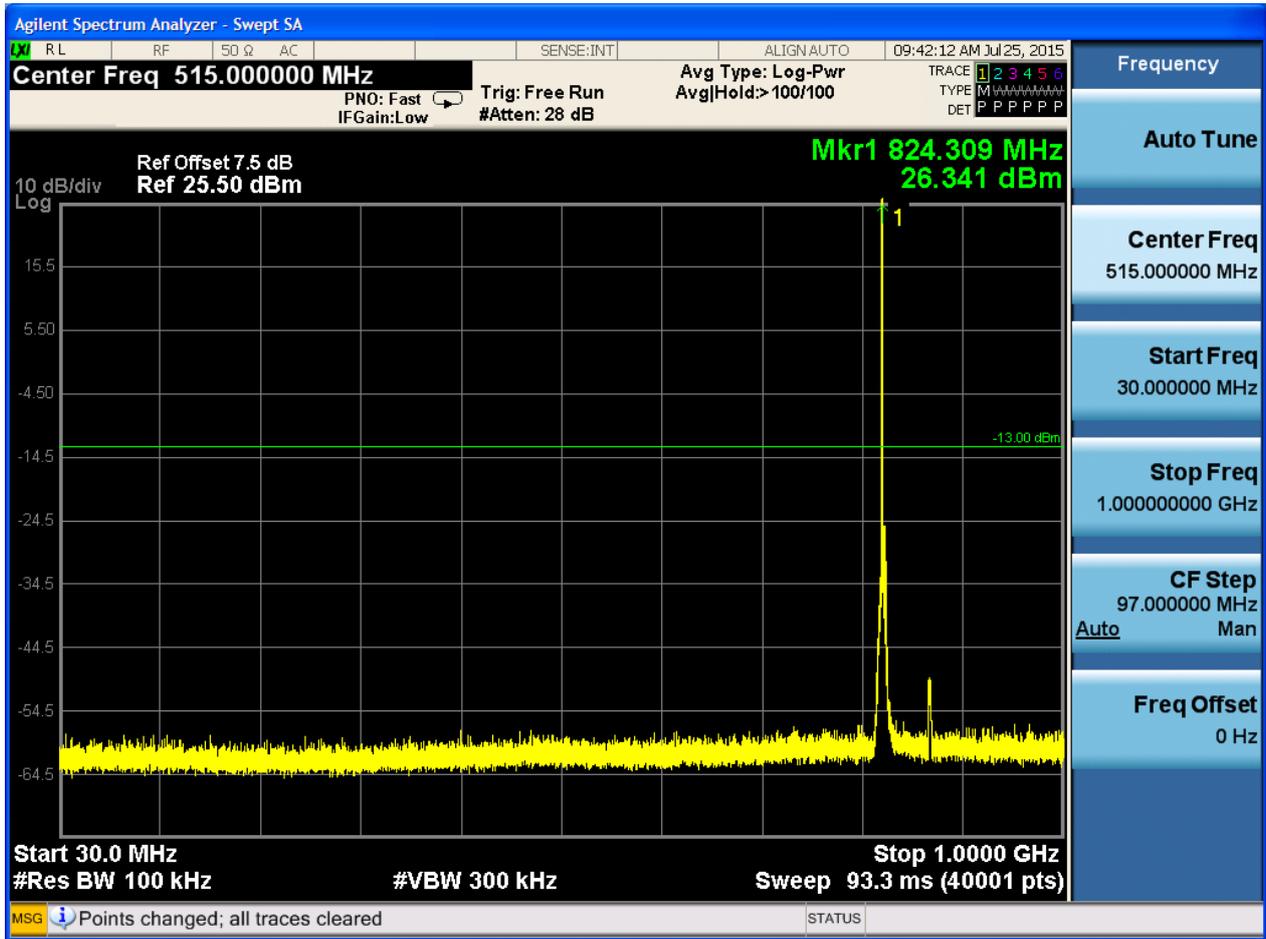


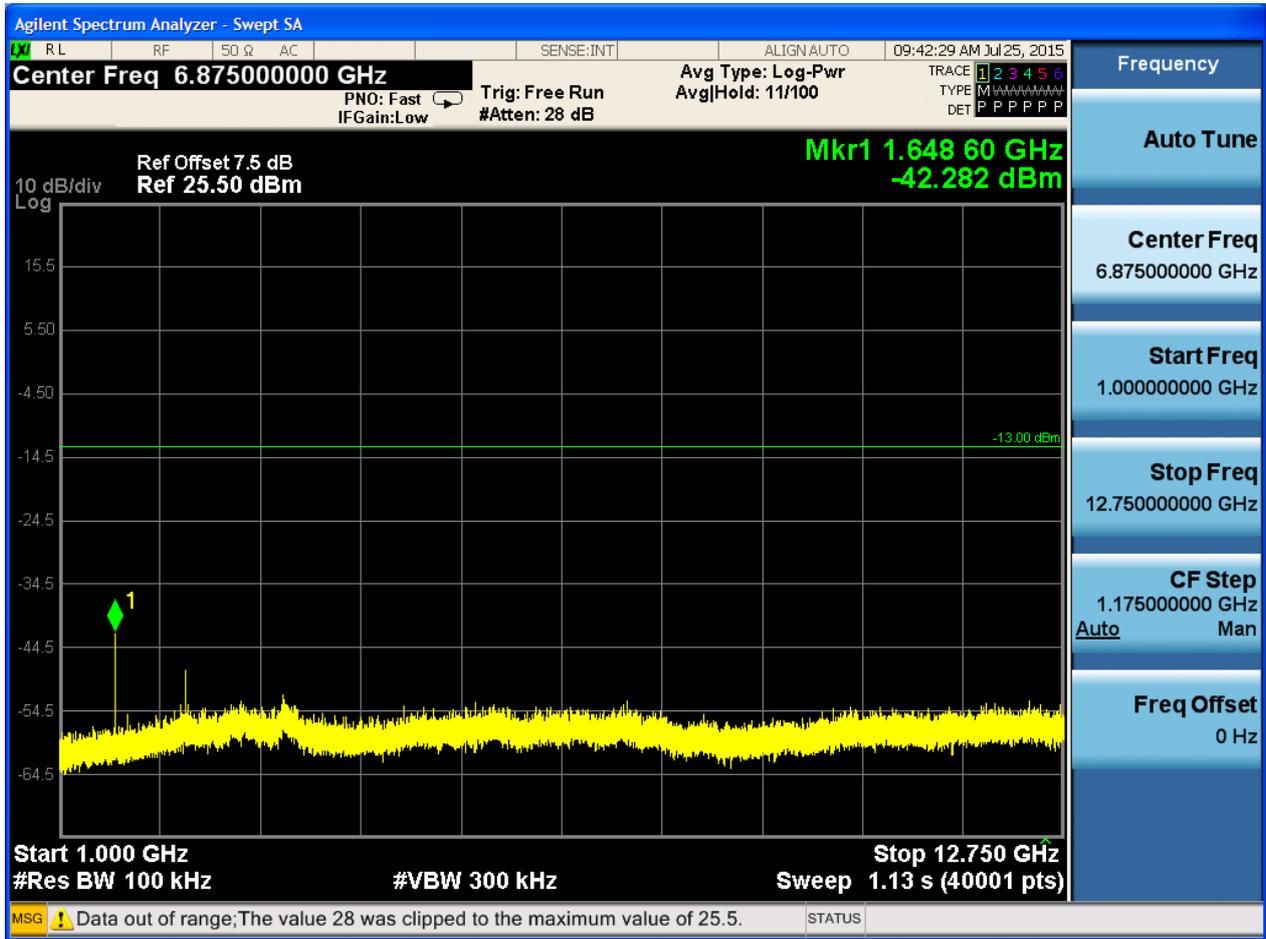
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



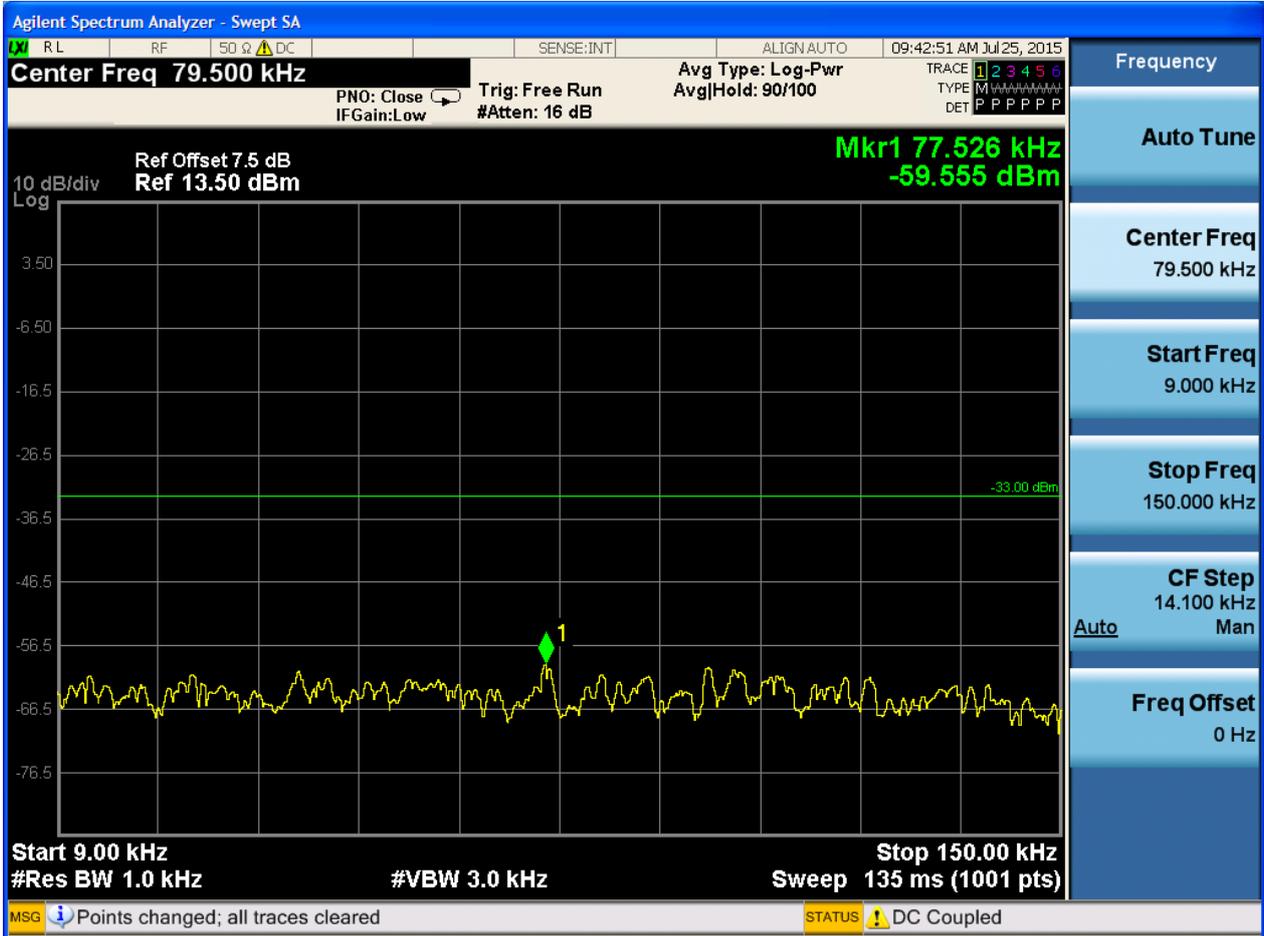


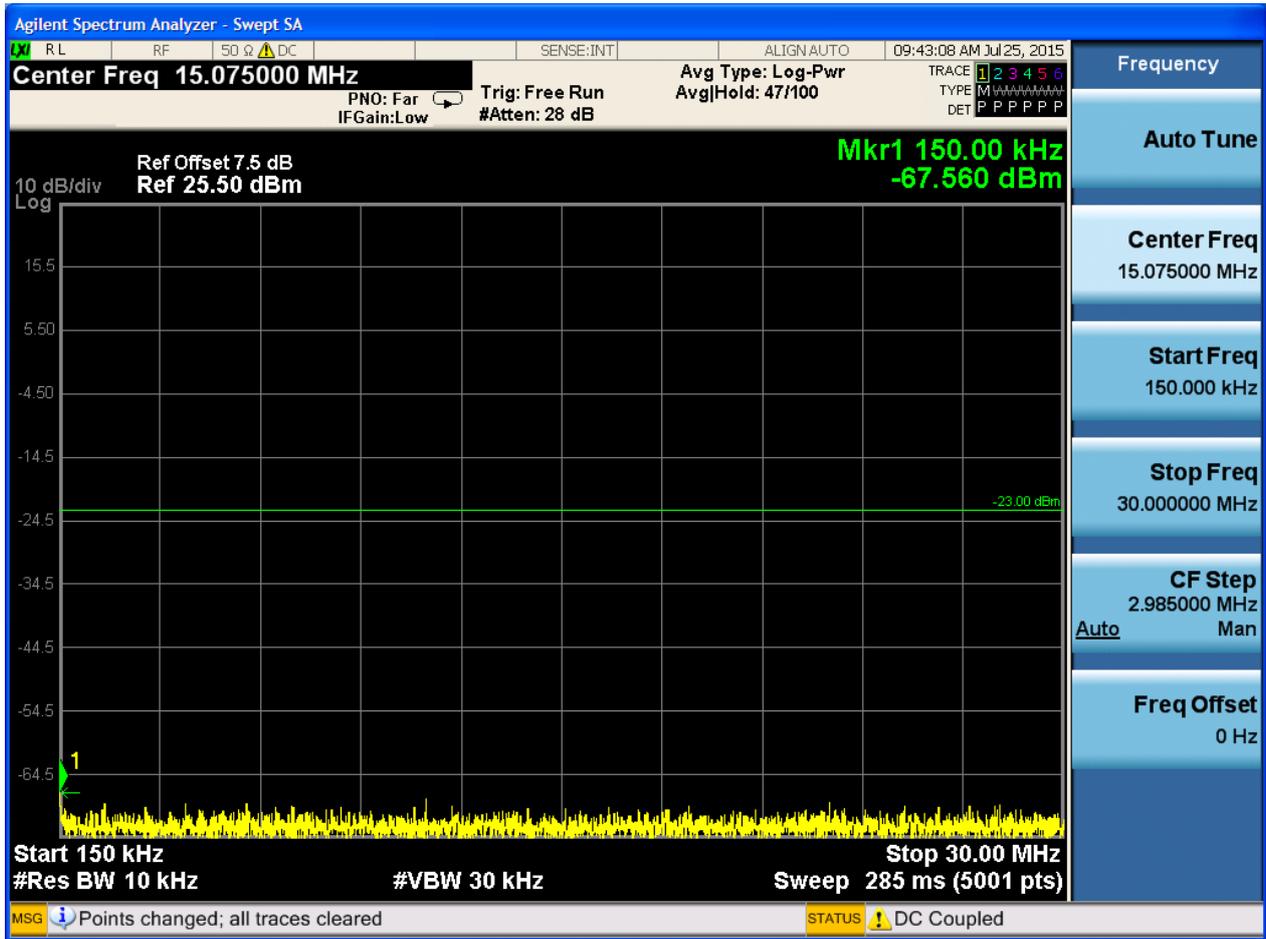


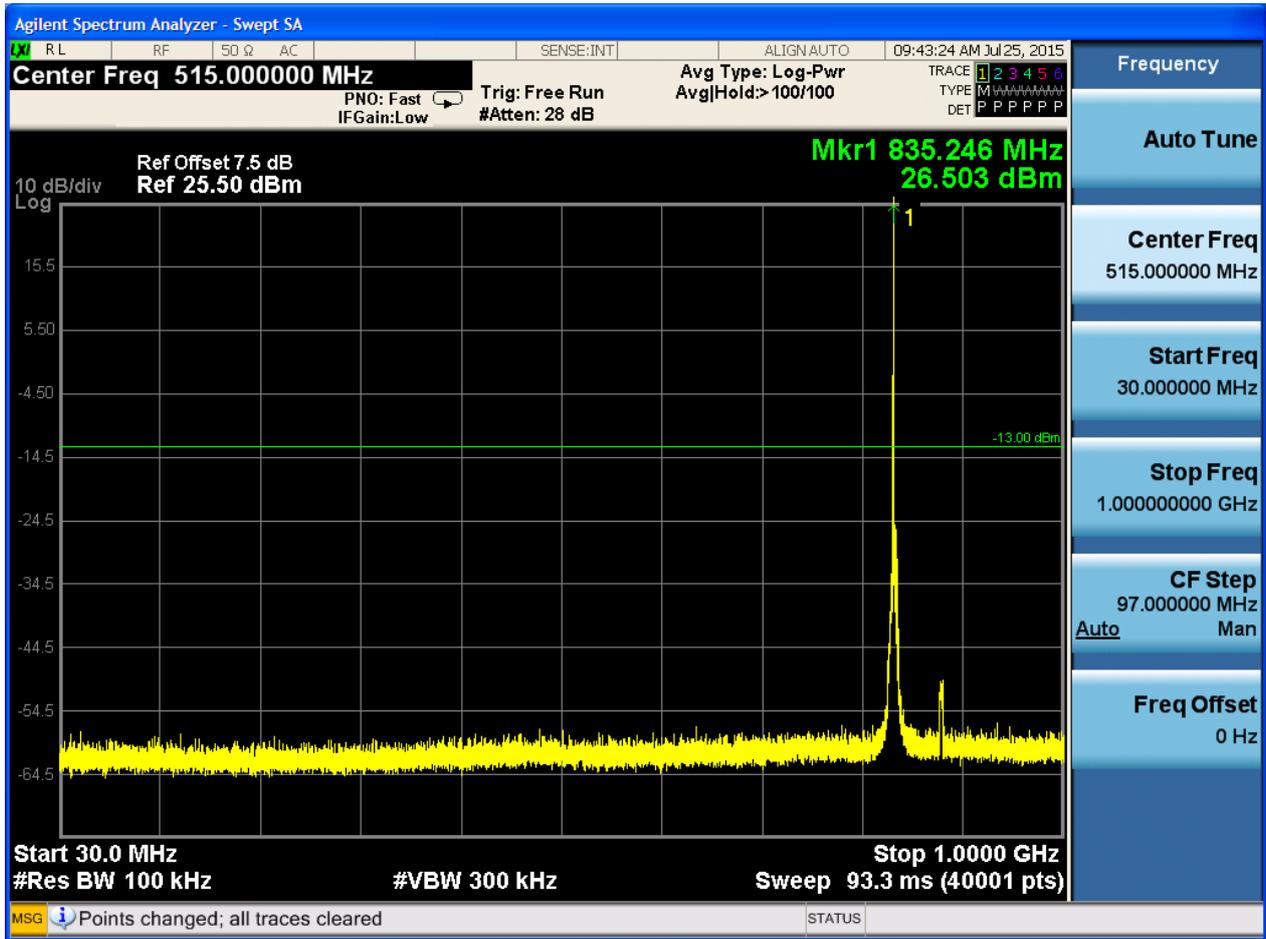


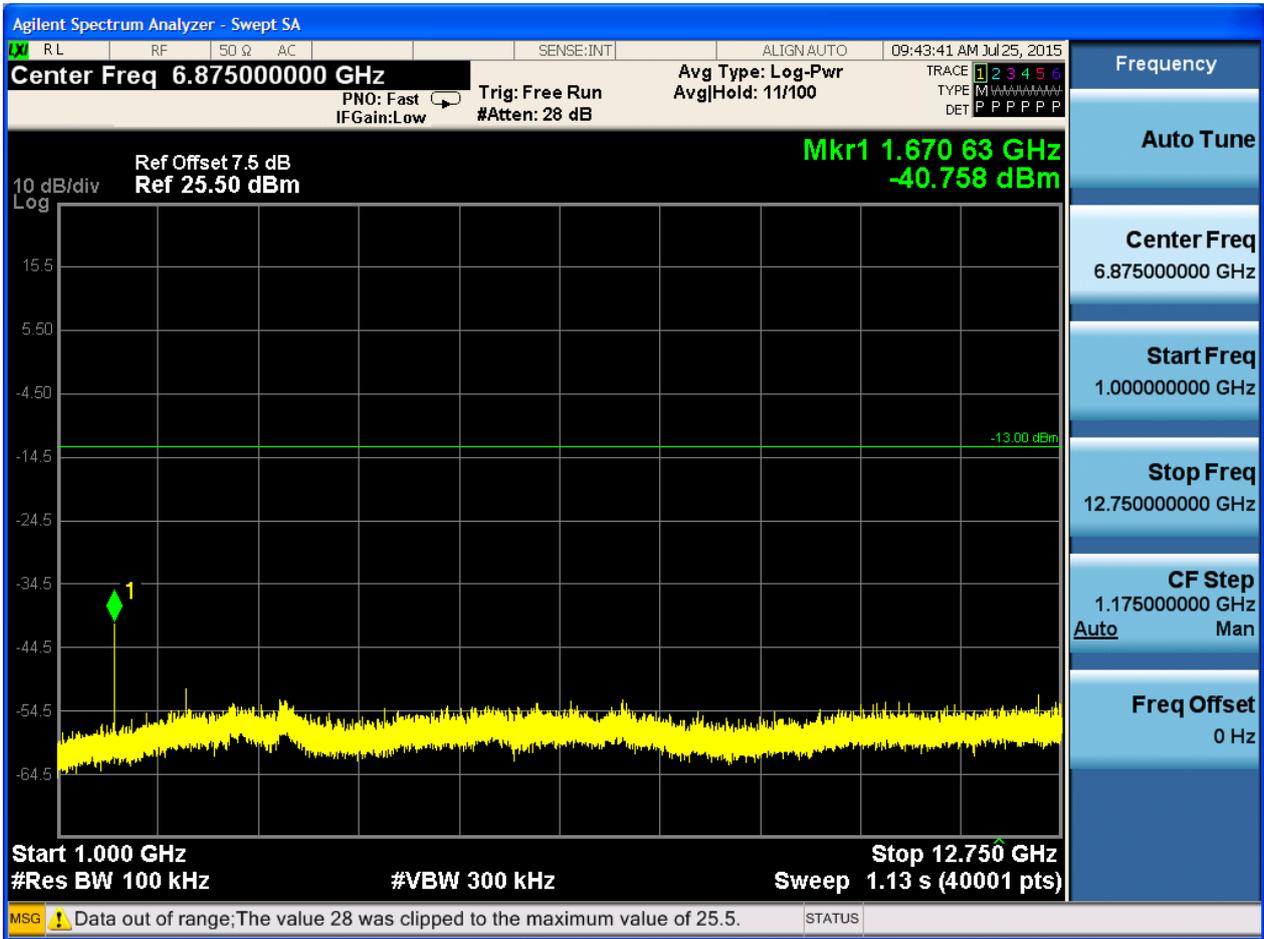
6.1.1.2.2.2 Test Channel = MCH

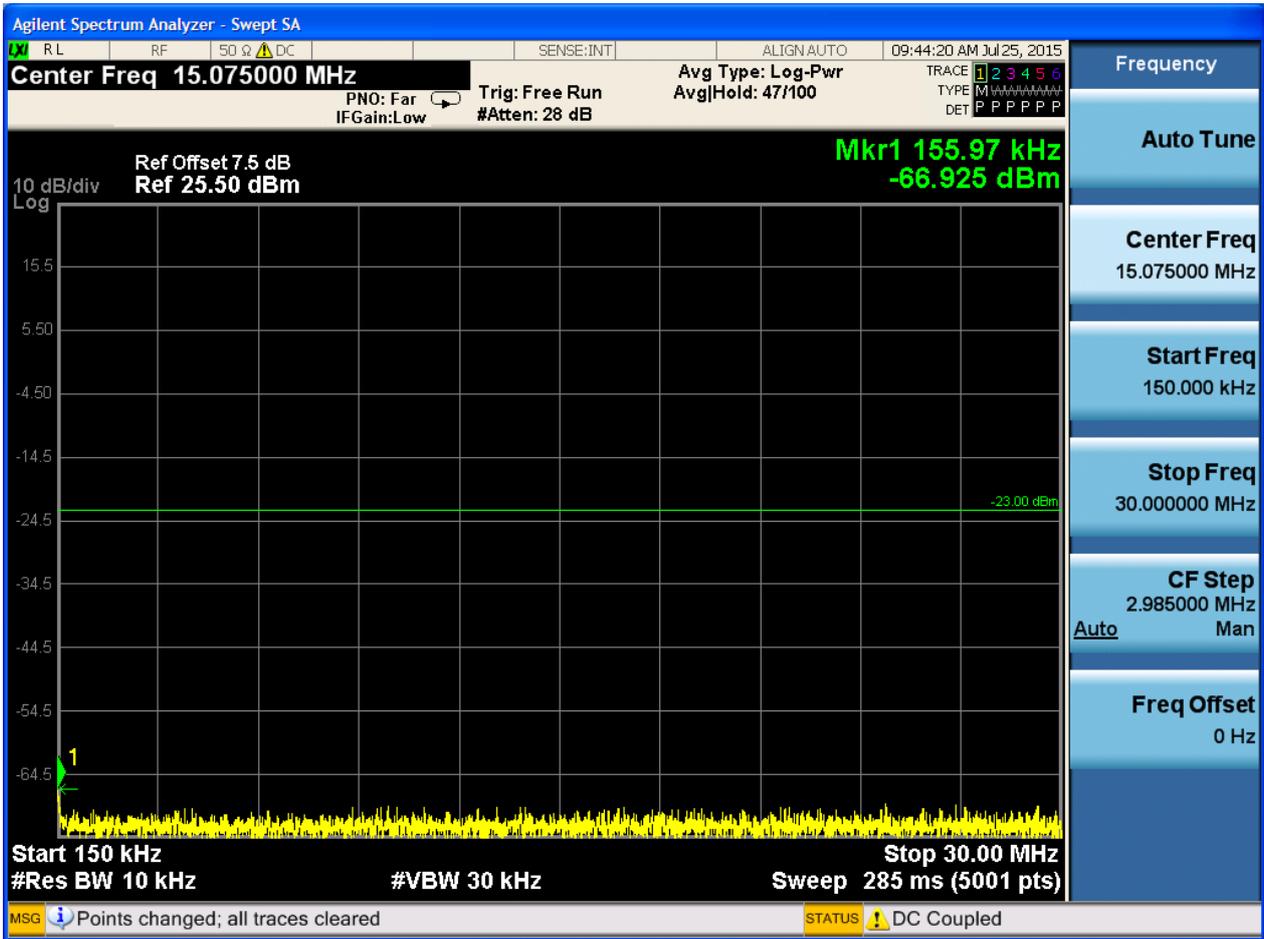
6.1.1.2.2.2.1 Test RB = RB1#0

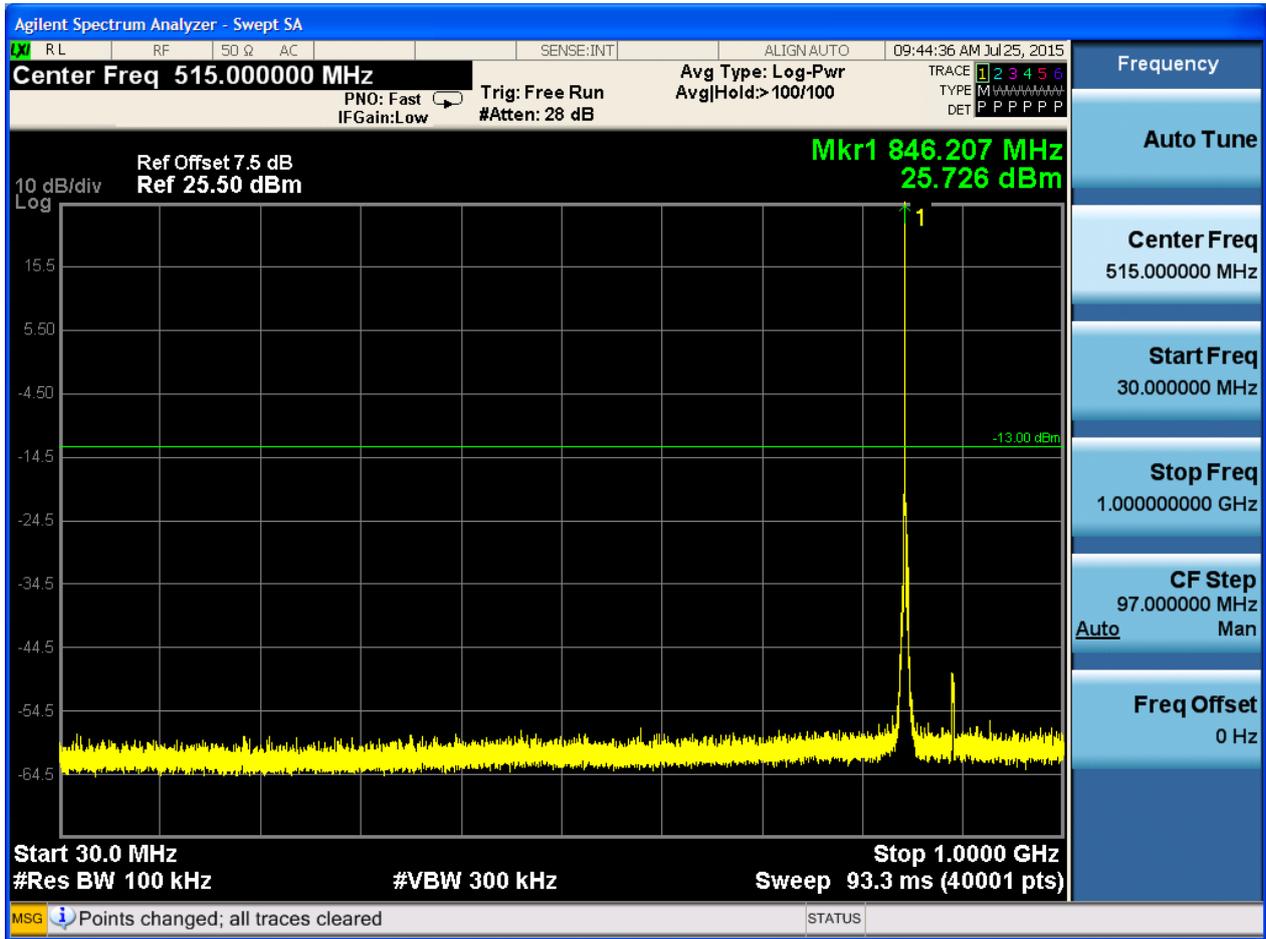


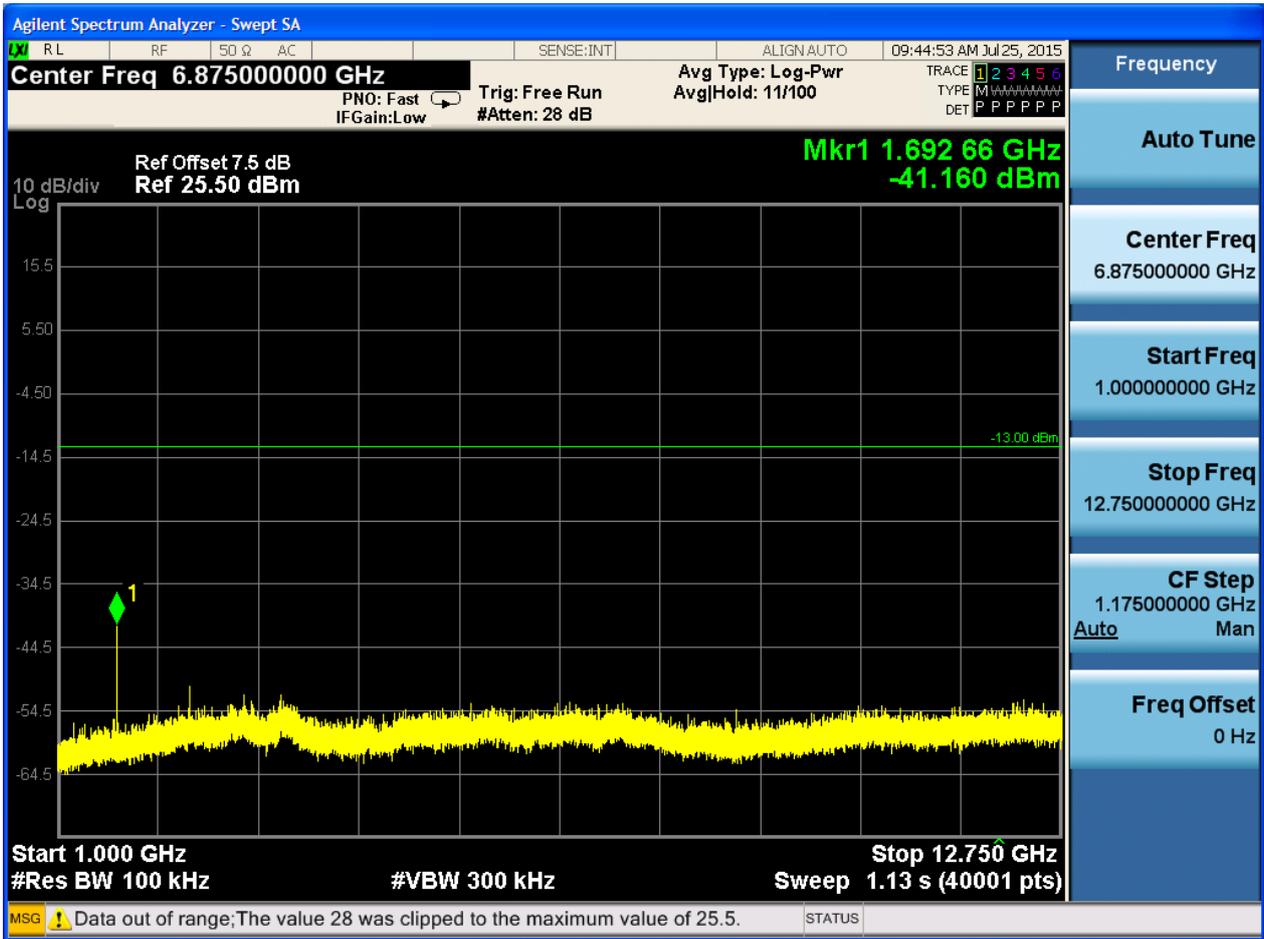










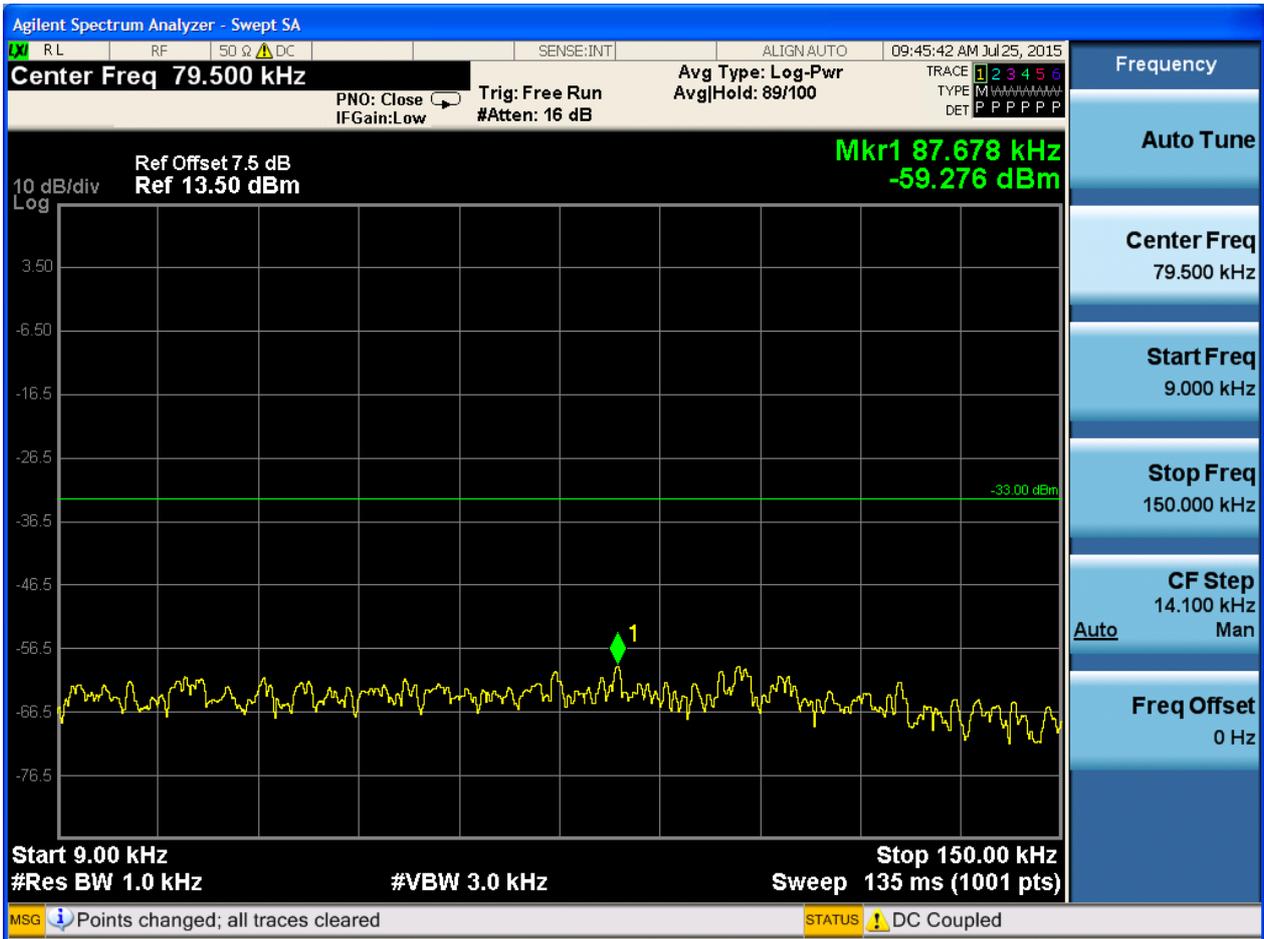


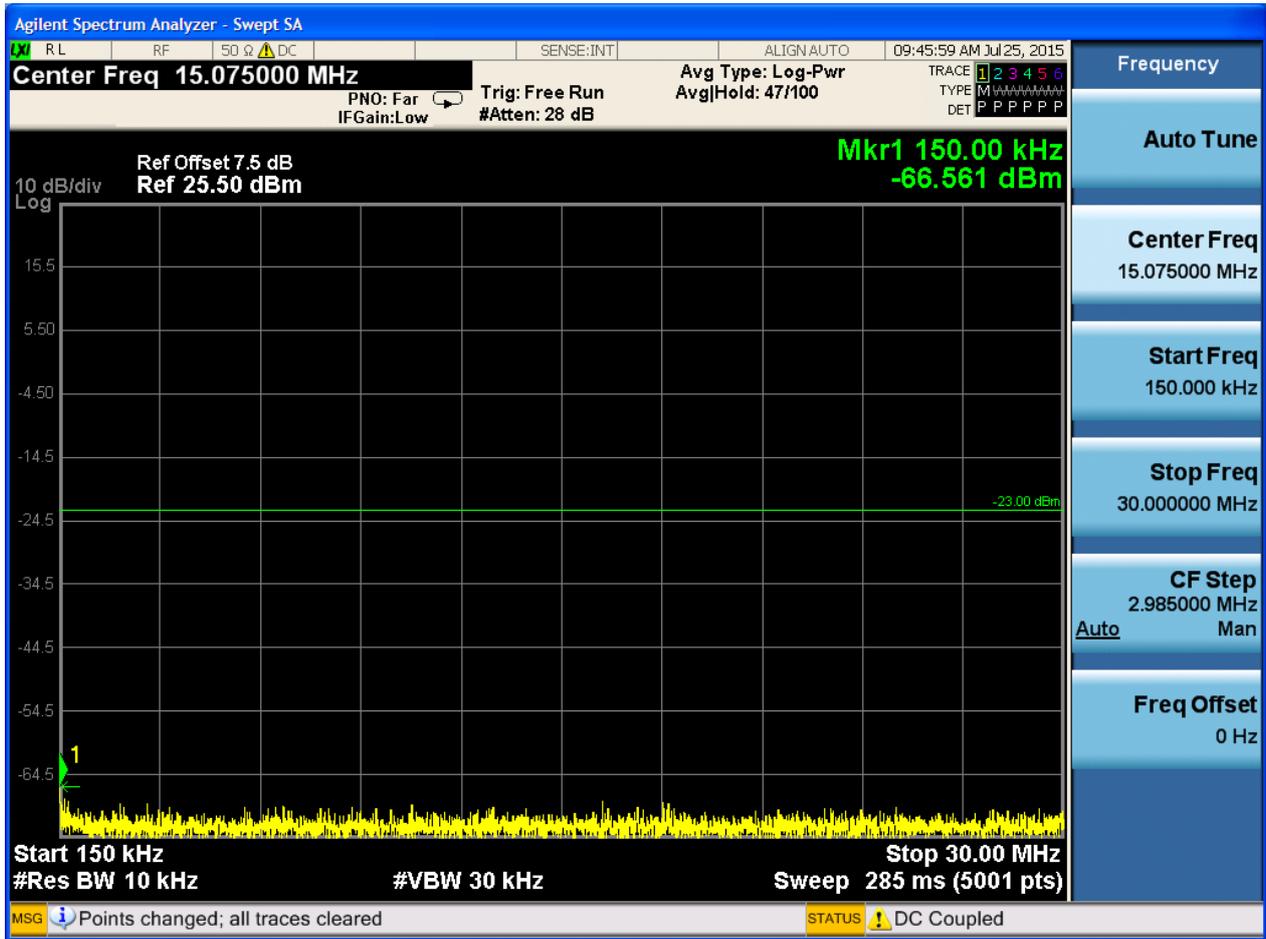


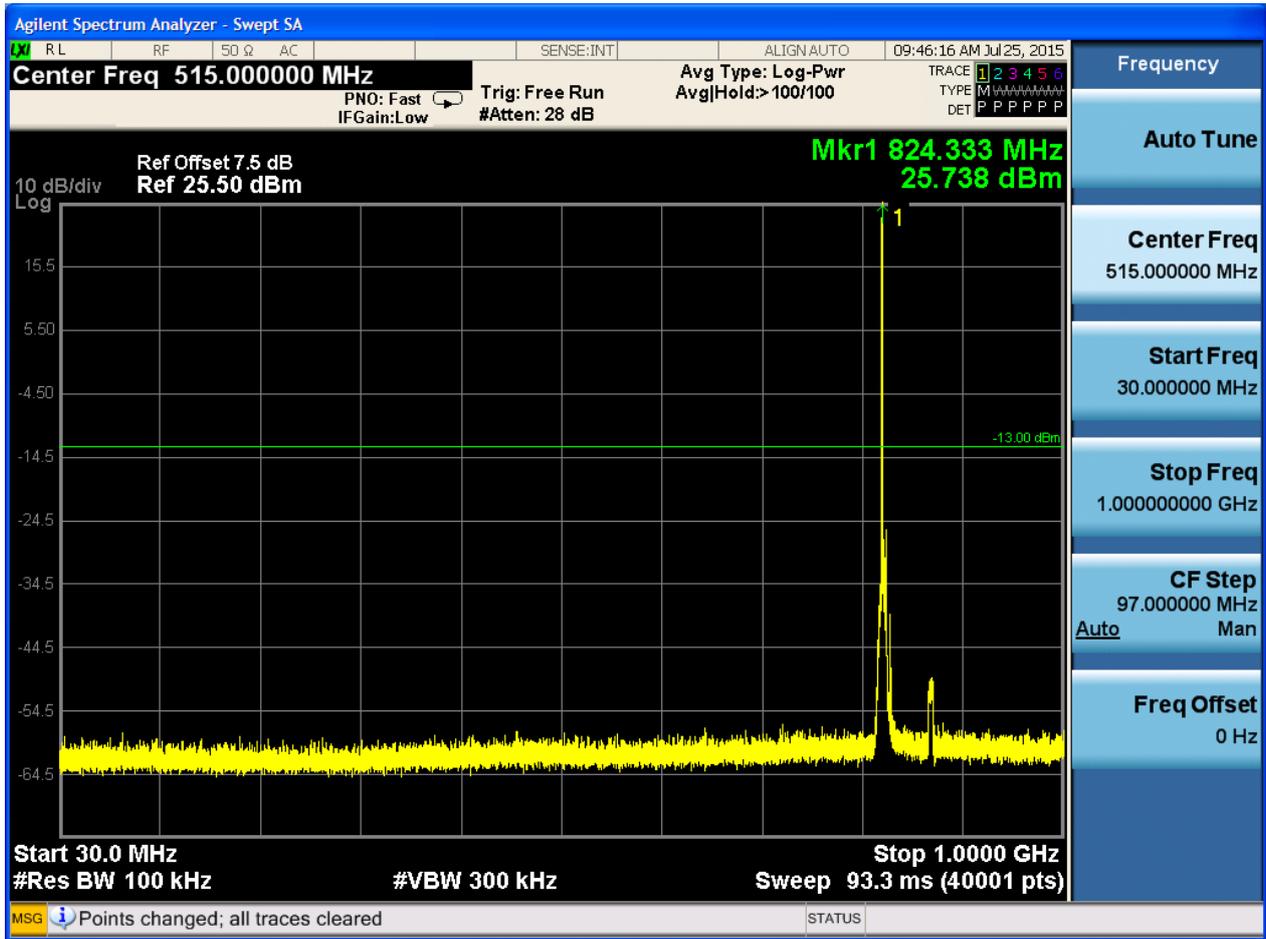
6.1.1.2.3 Test Bandwidth = 5

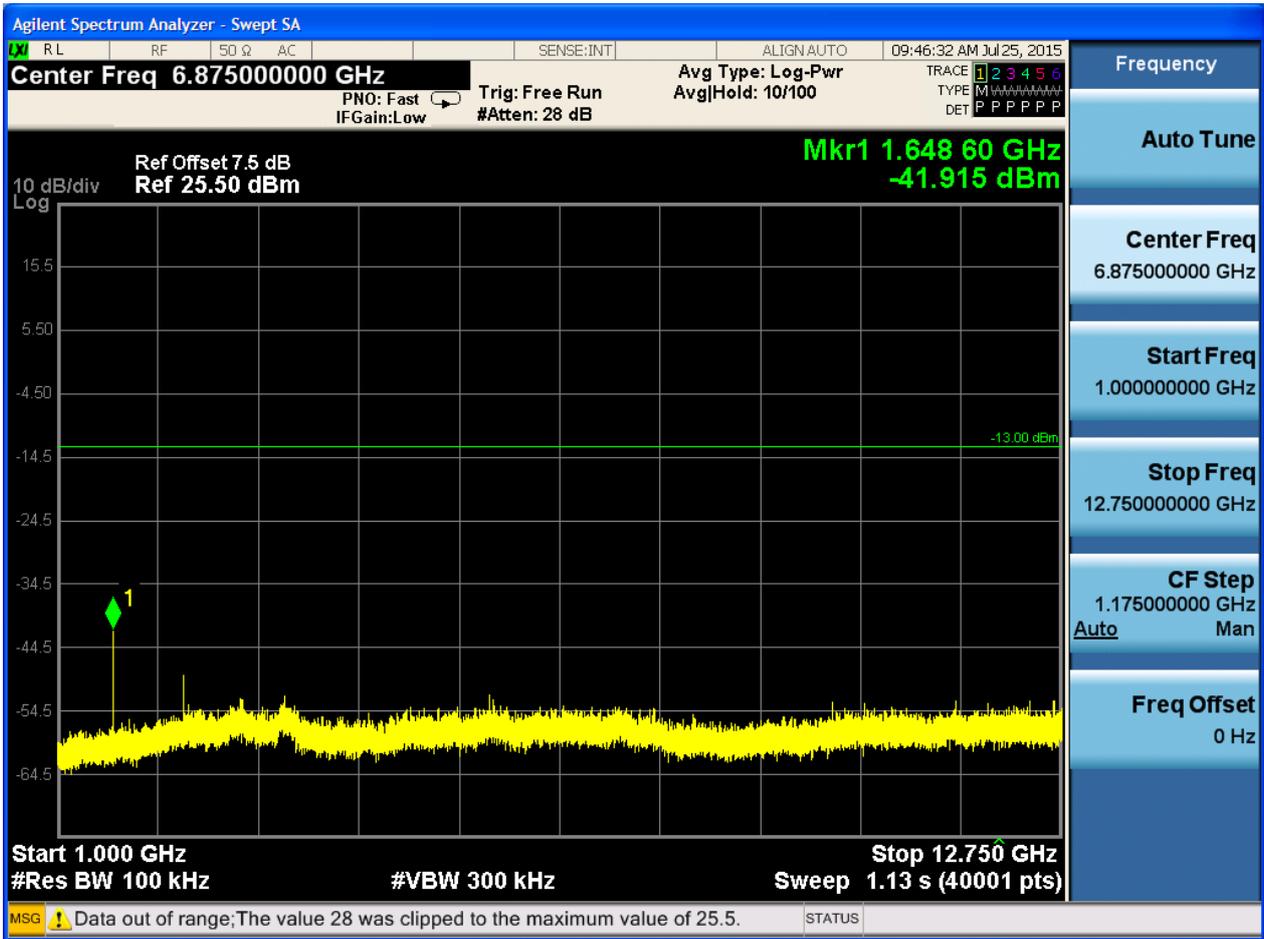
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





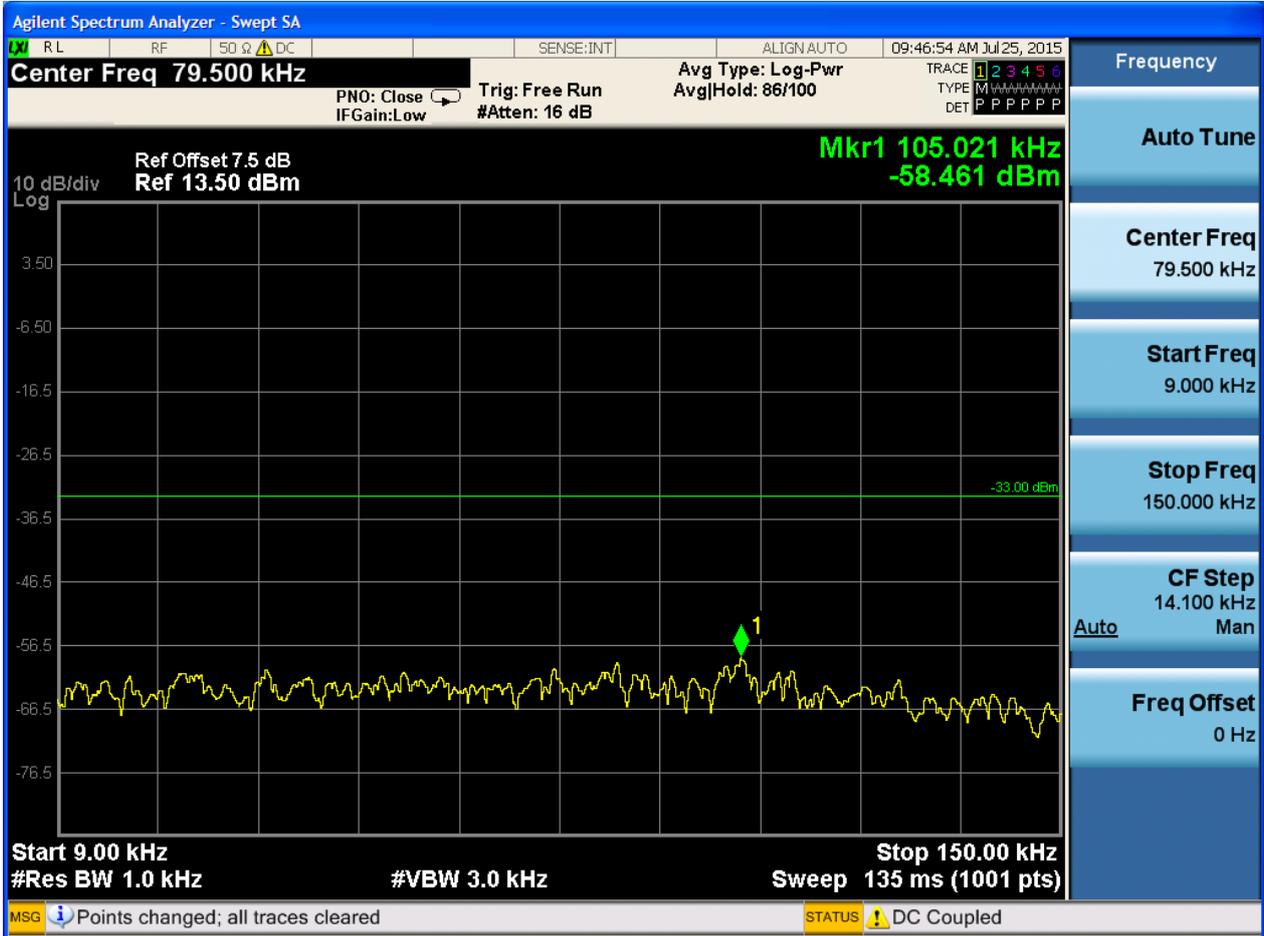




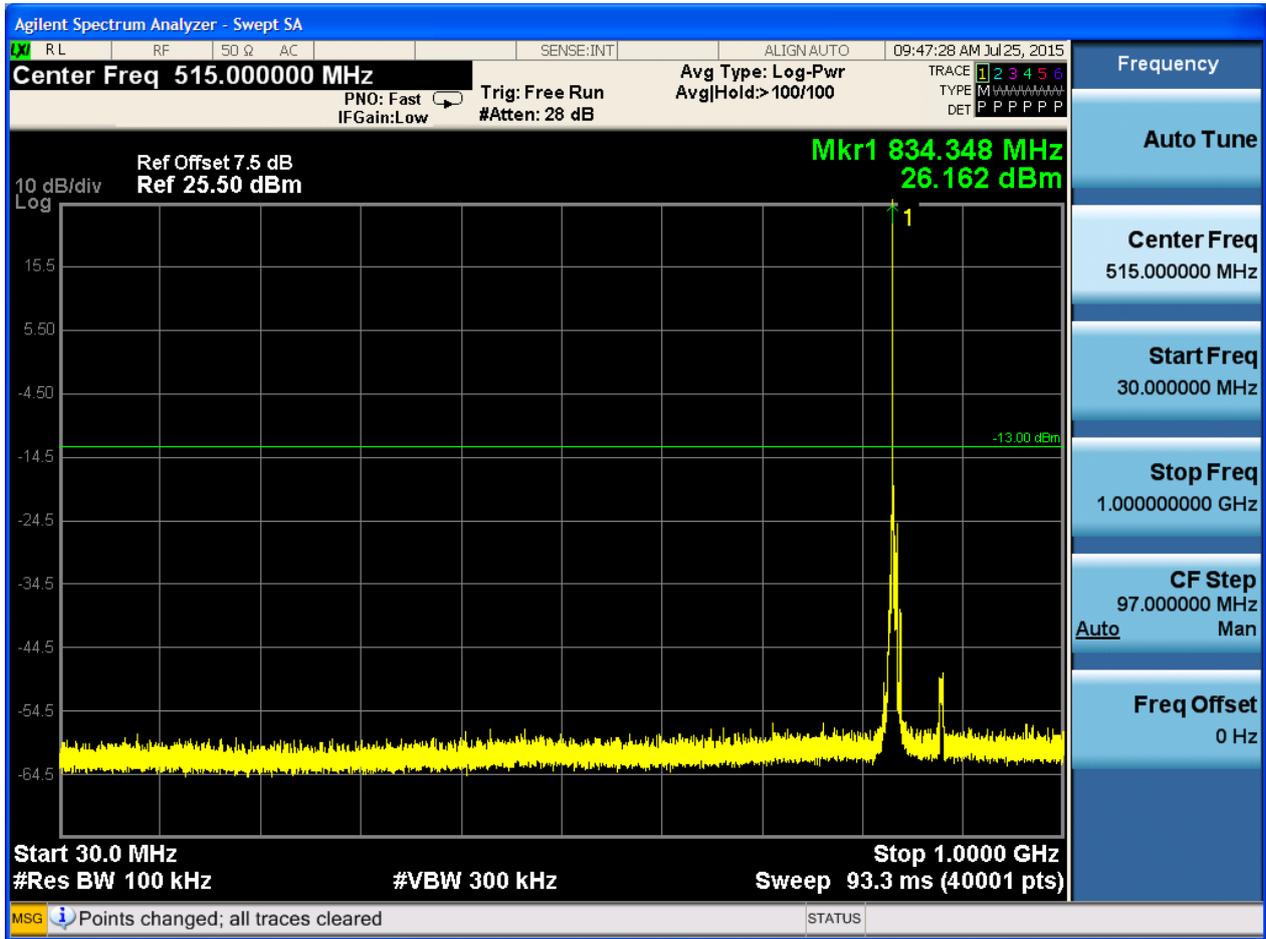


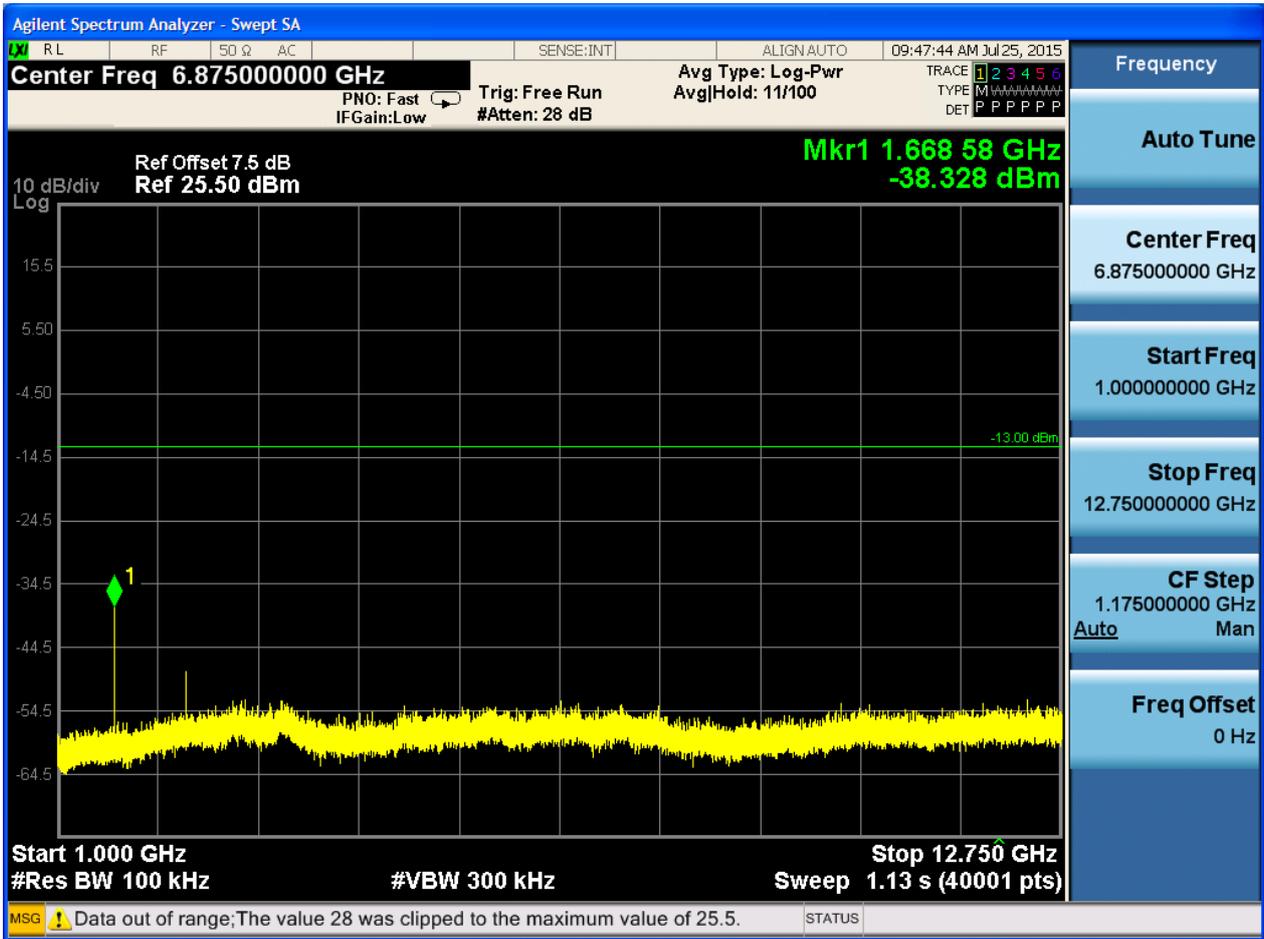
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0





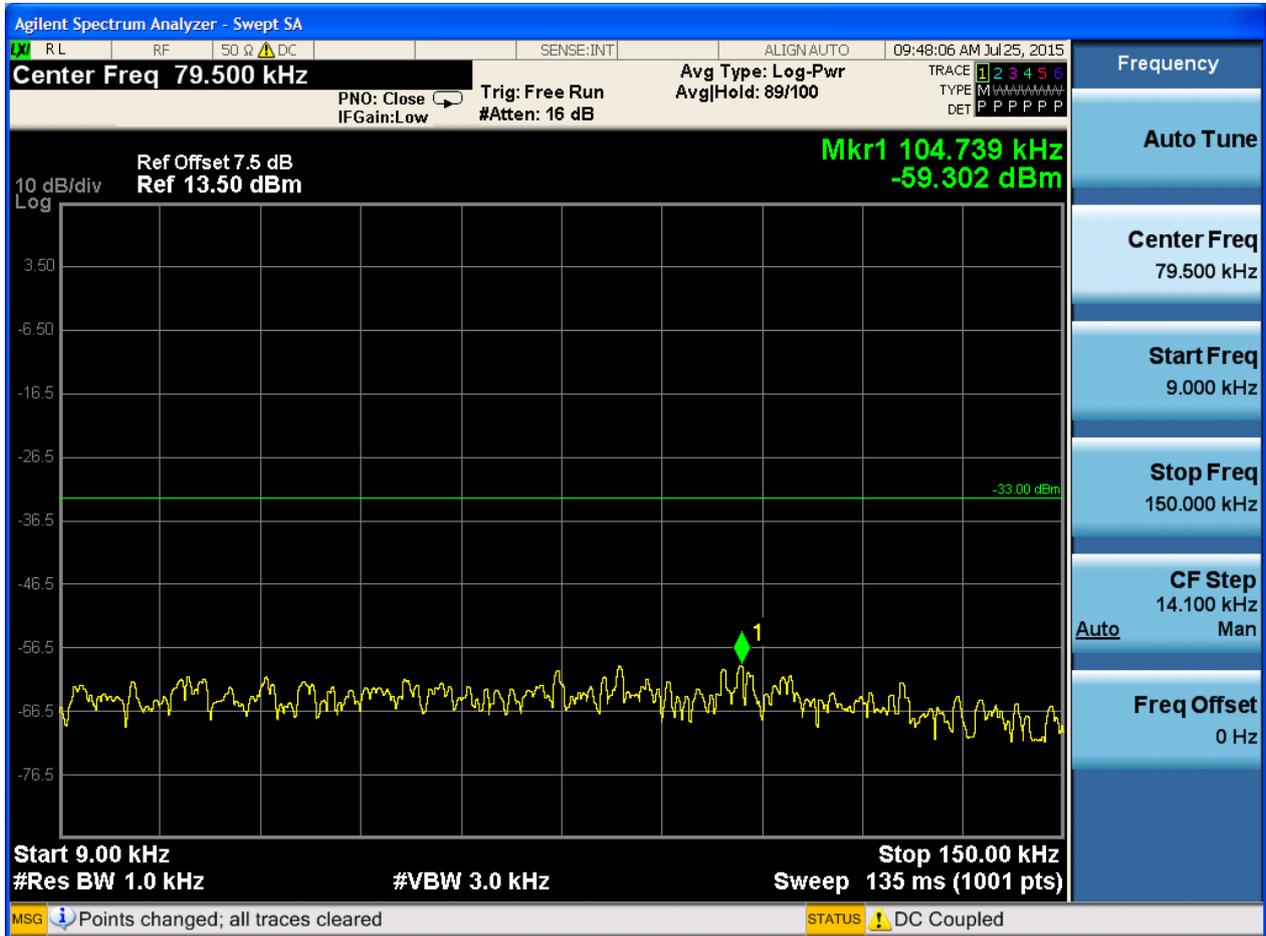




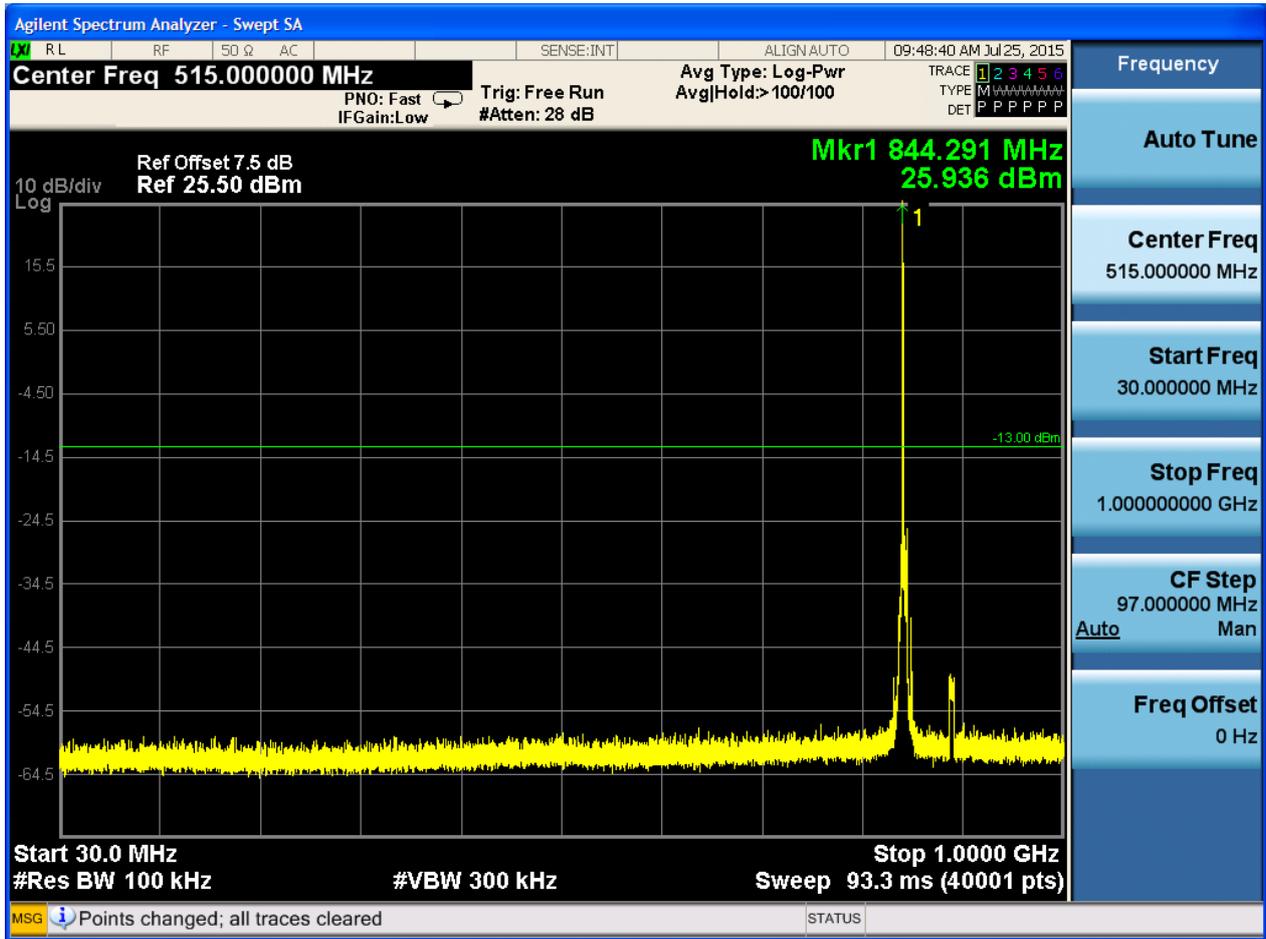


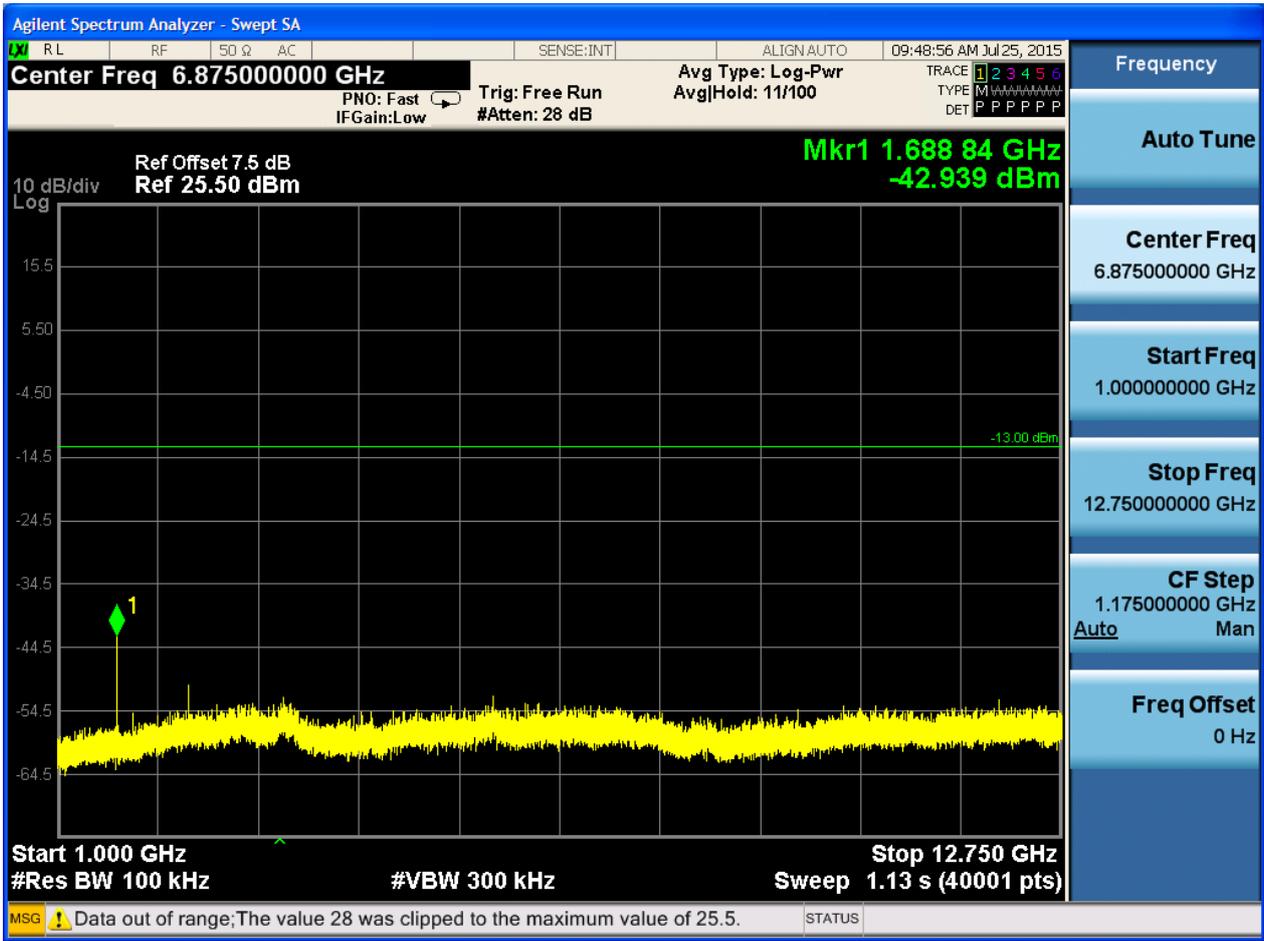
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







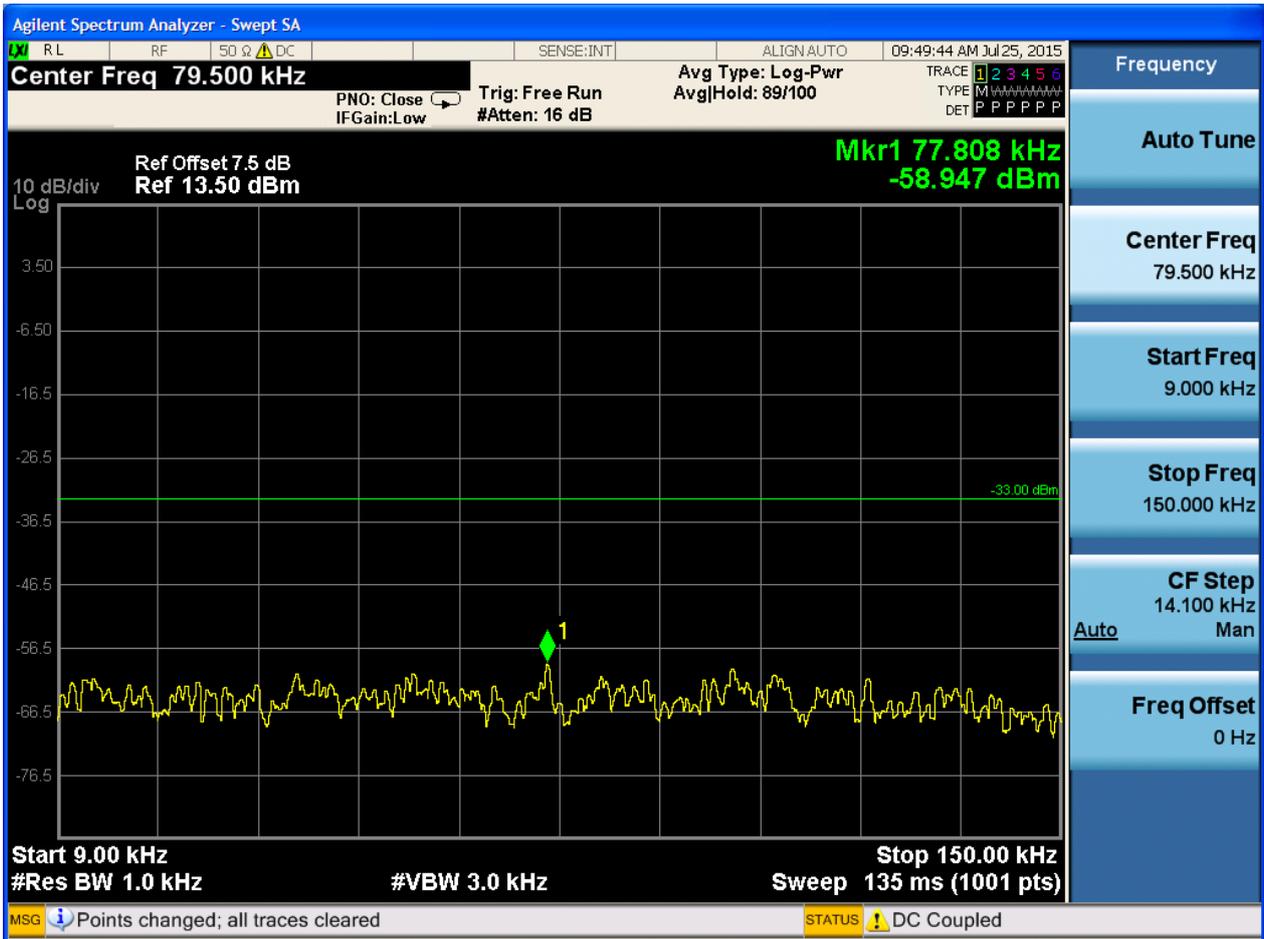


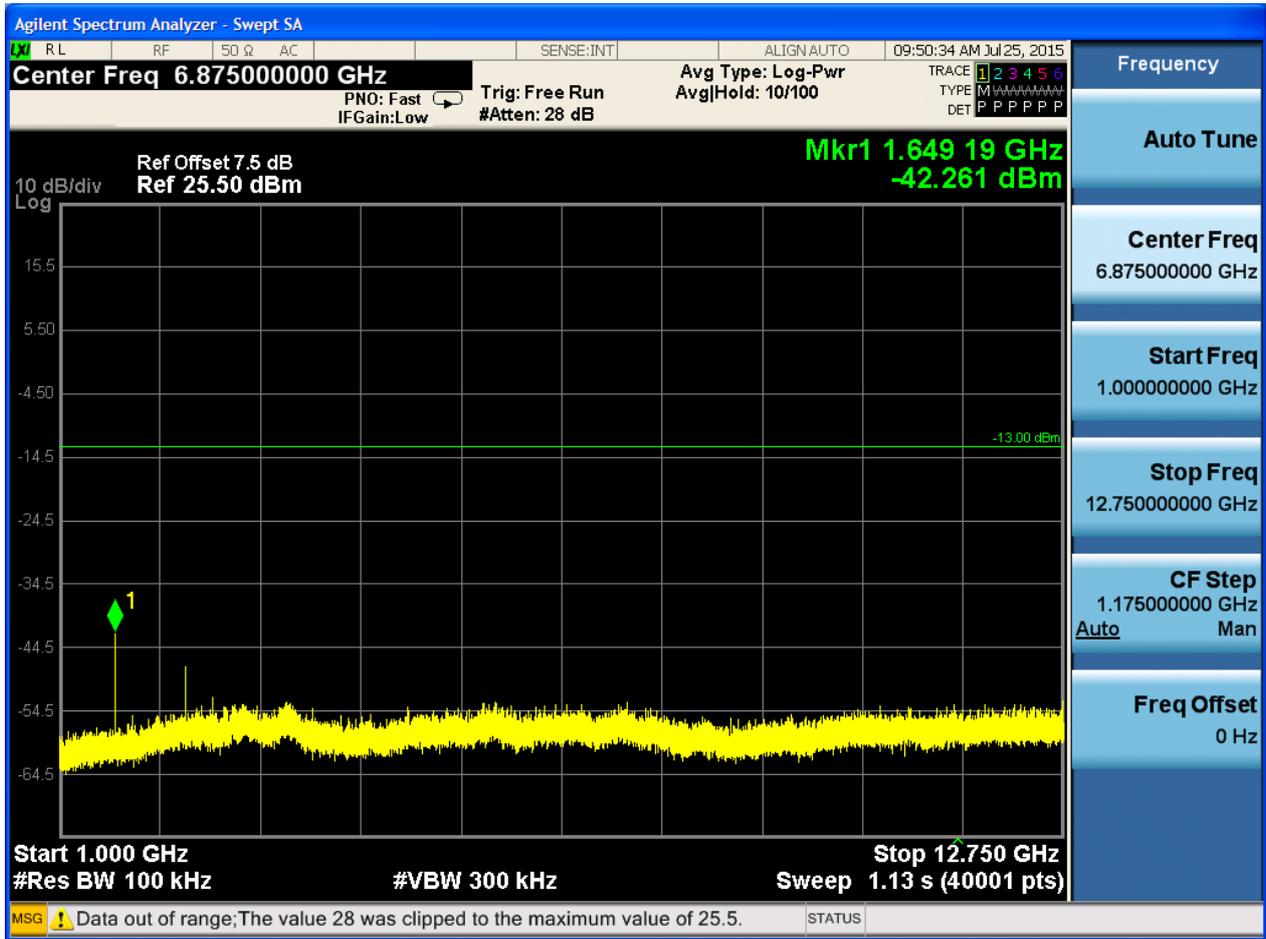


6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

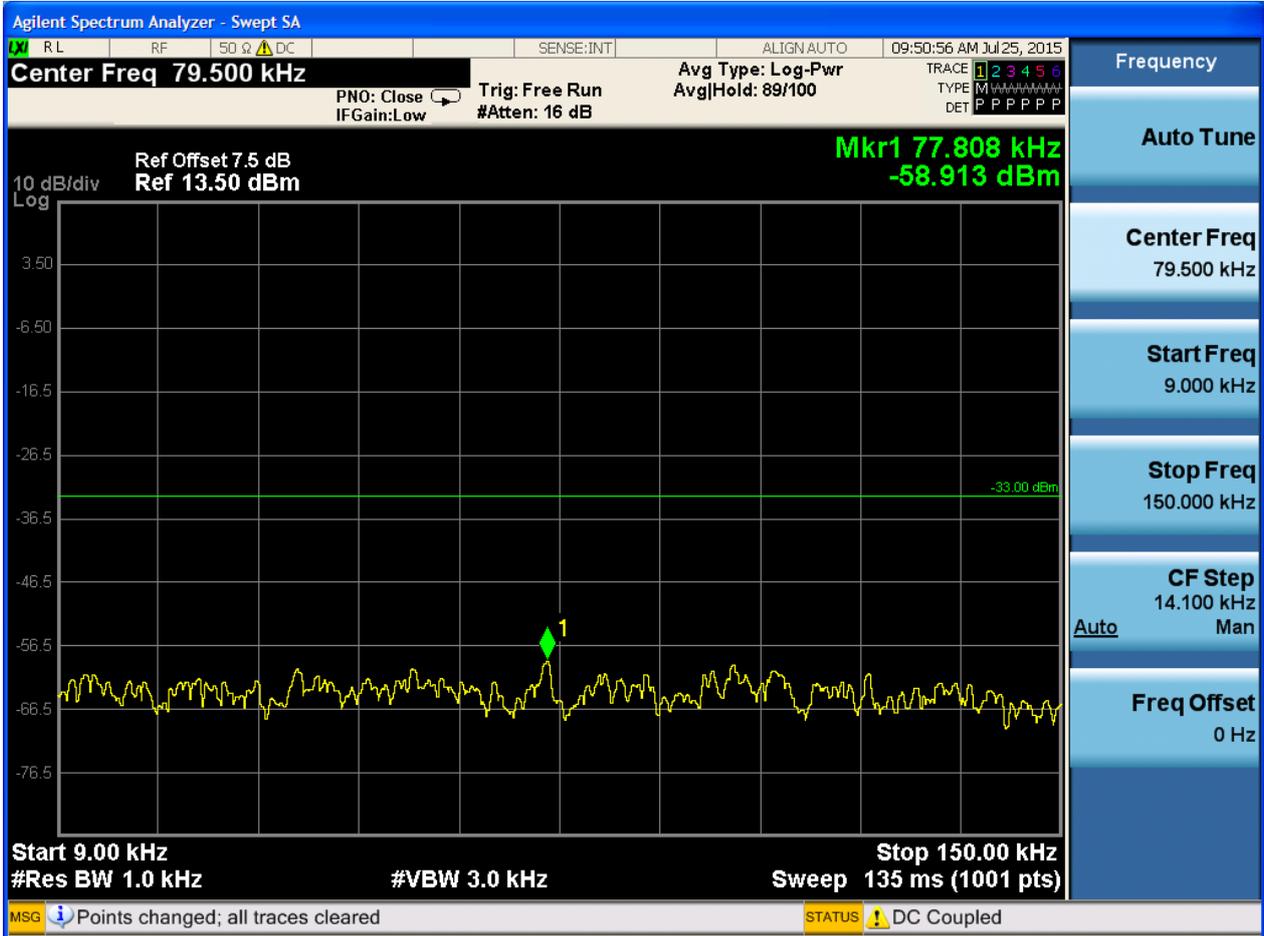


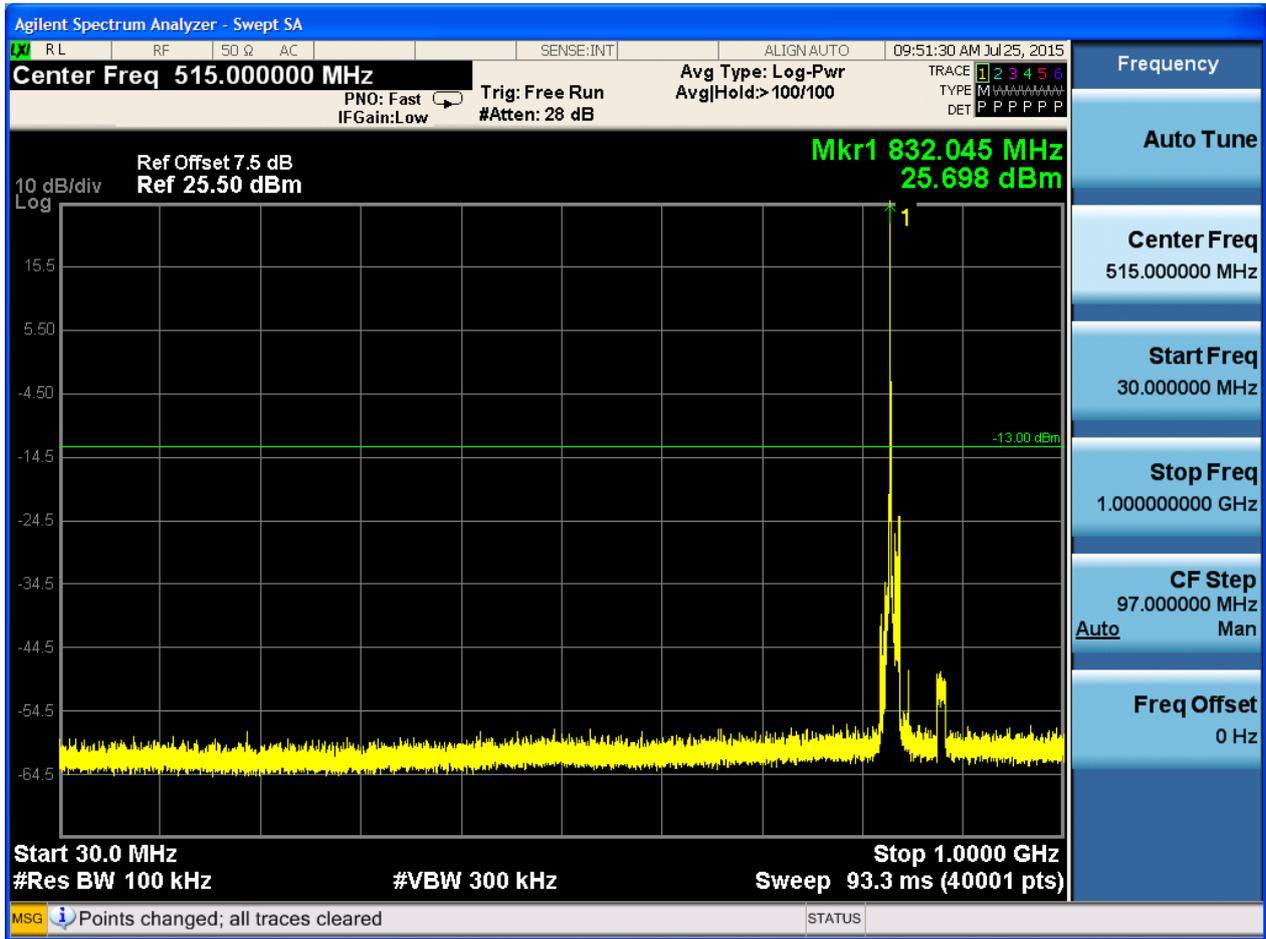


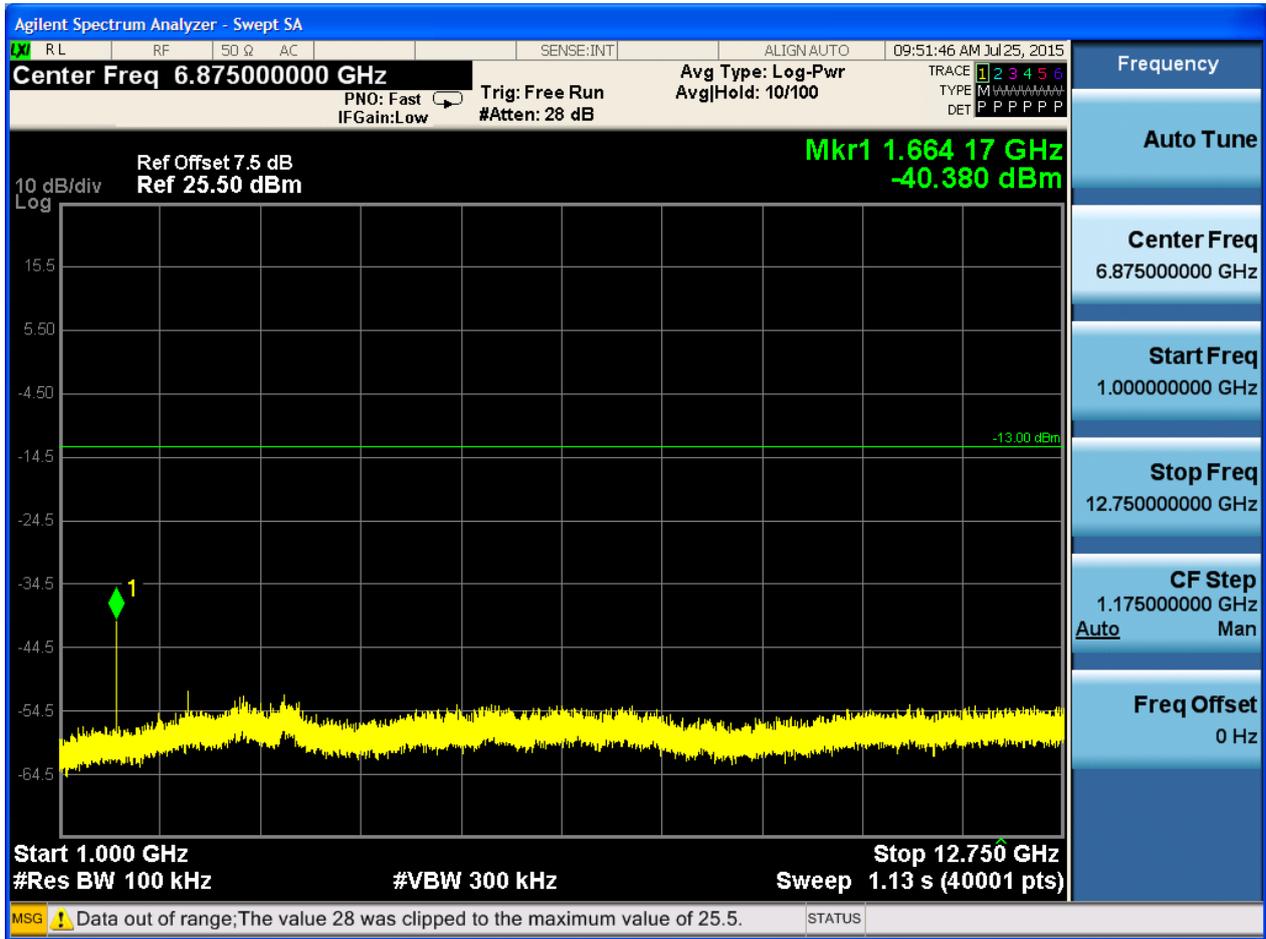


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



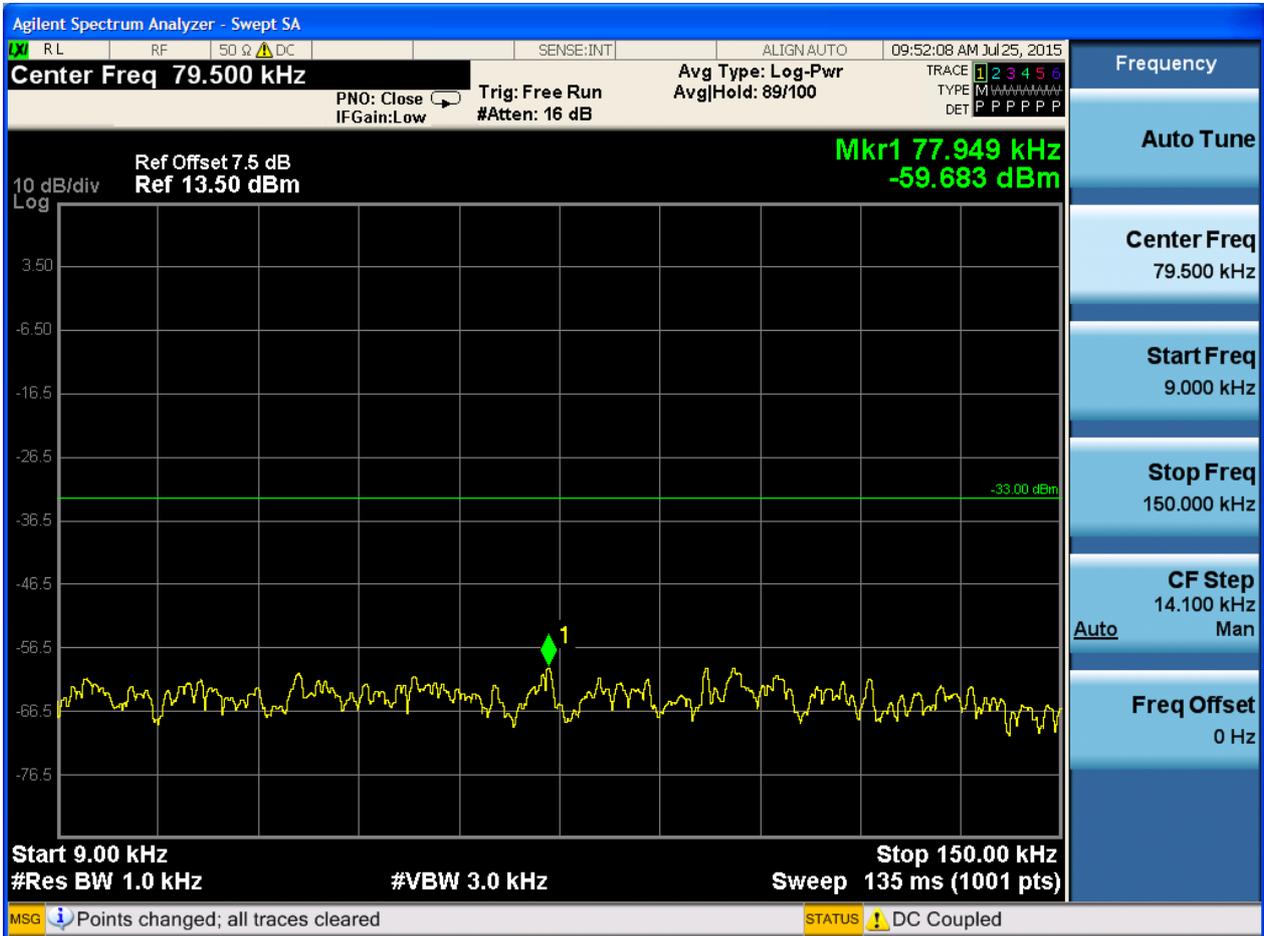


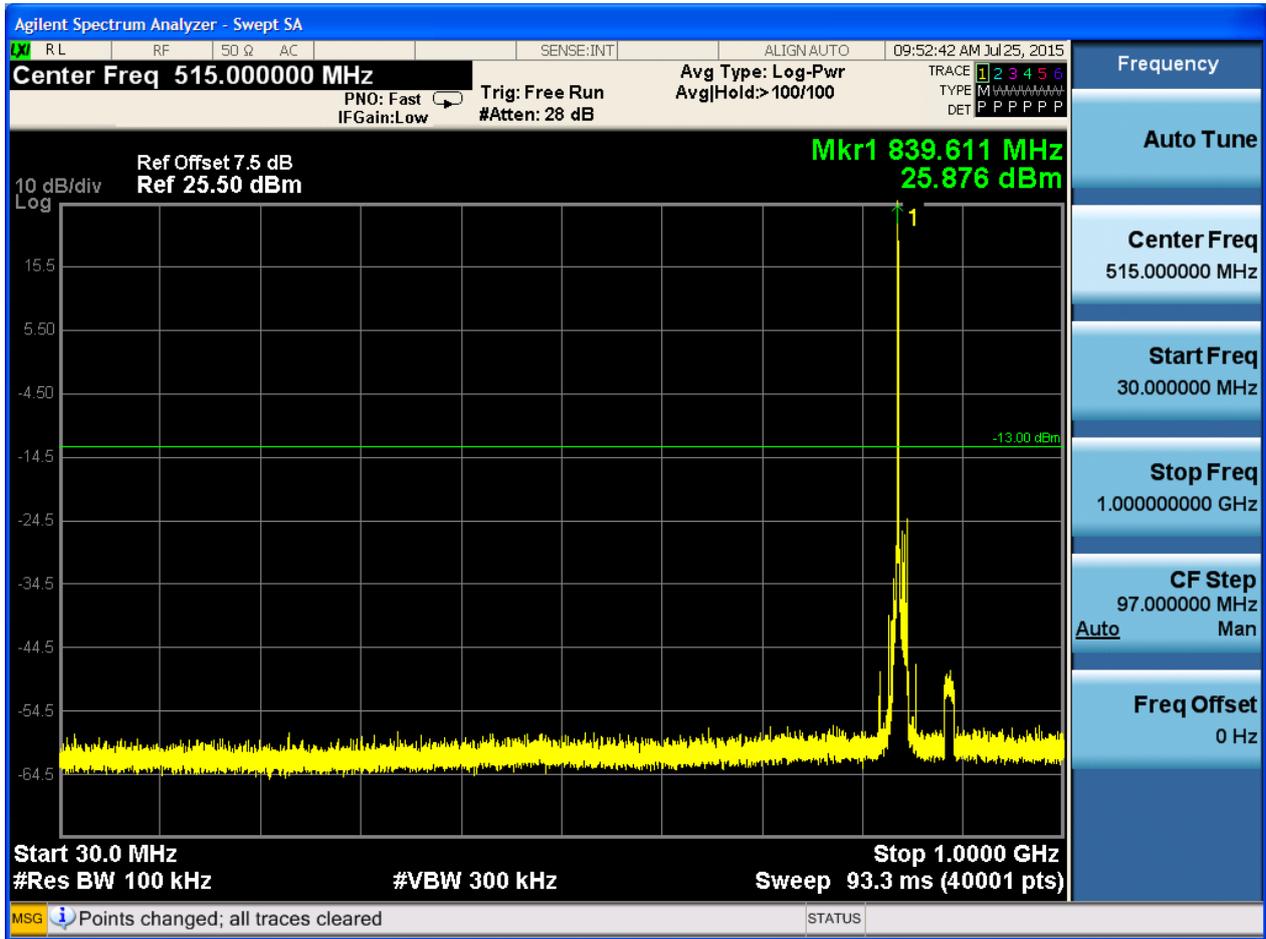


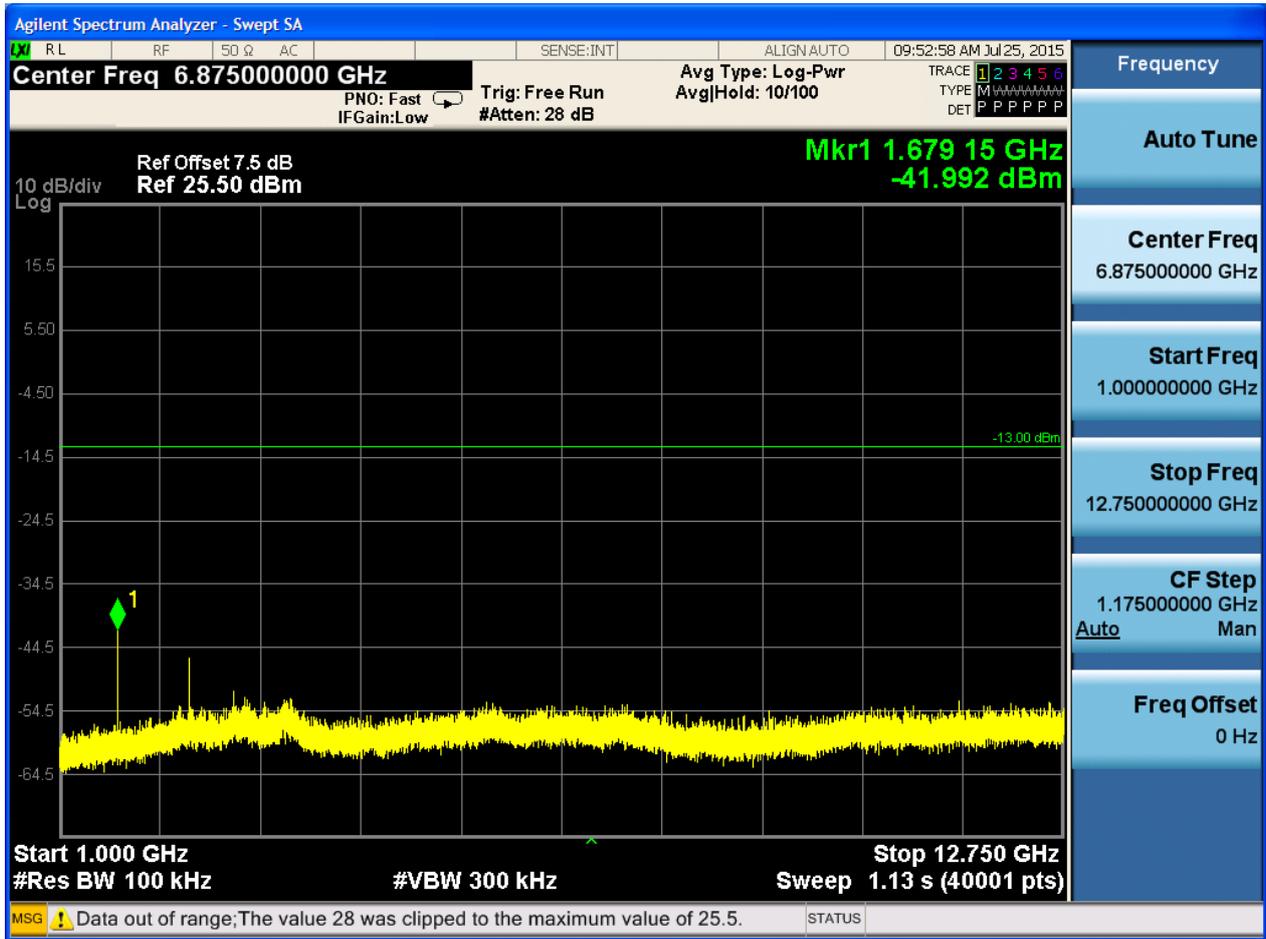


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note:

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

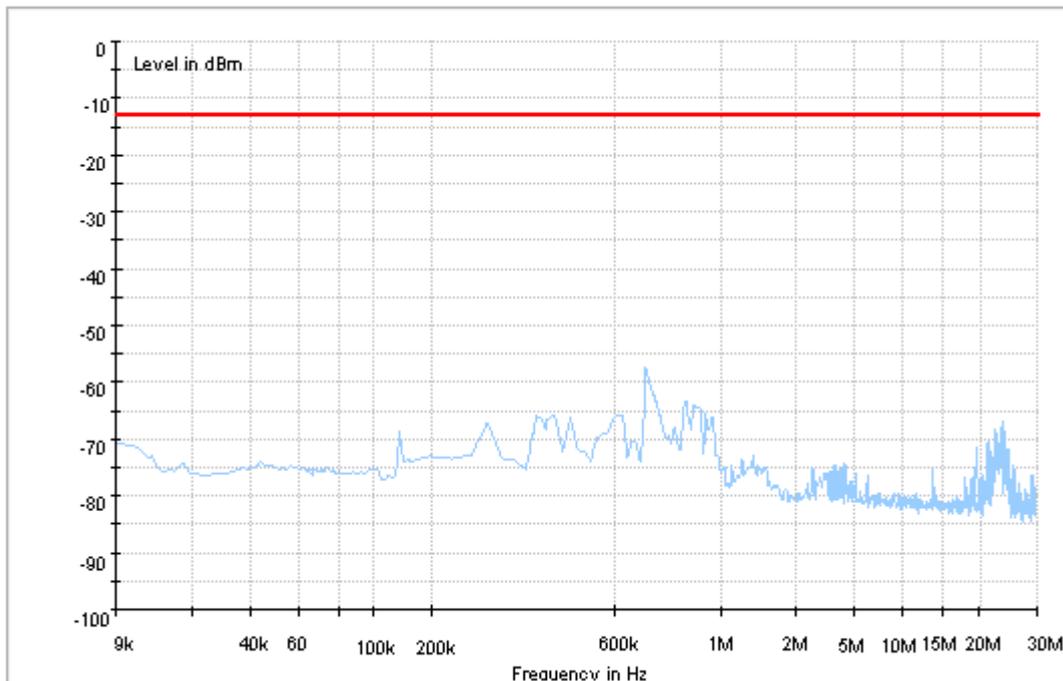
We tested all modes, but the data presented below is the worst case.

Part I - Test Plots

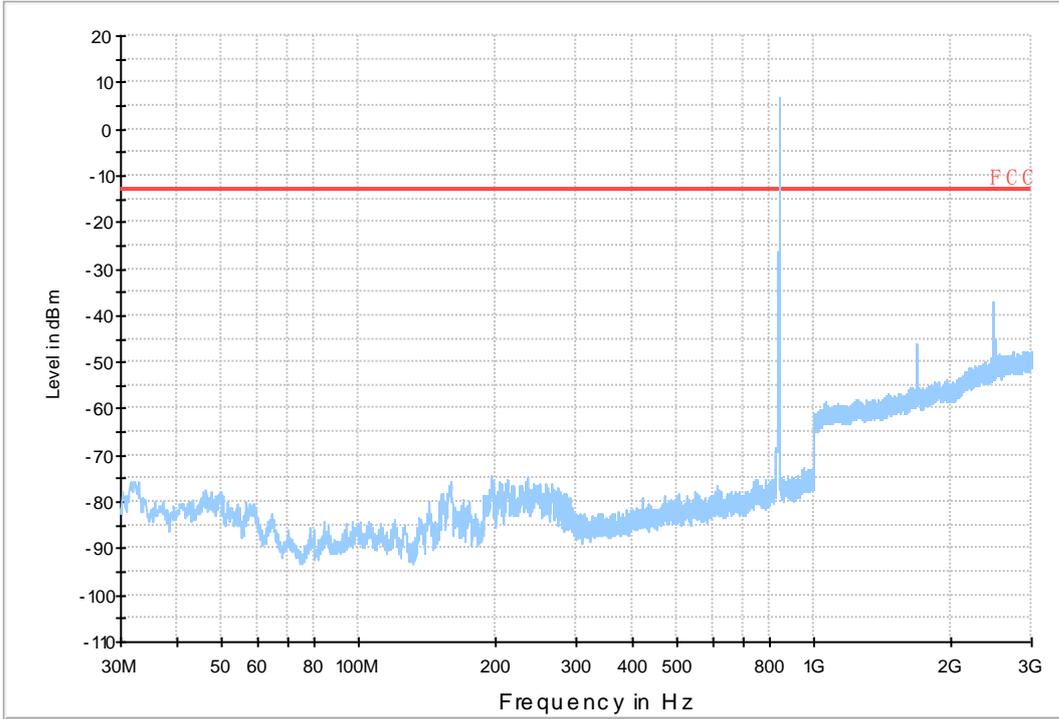
7.1 For LTE

7.1.1 Test Band = BAND5

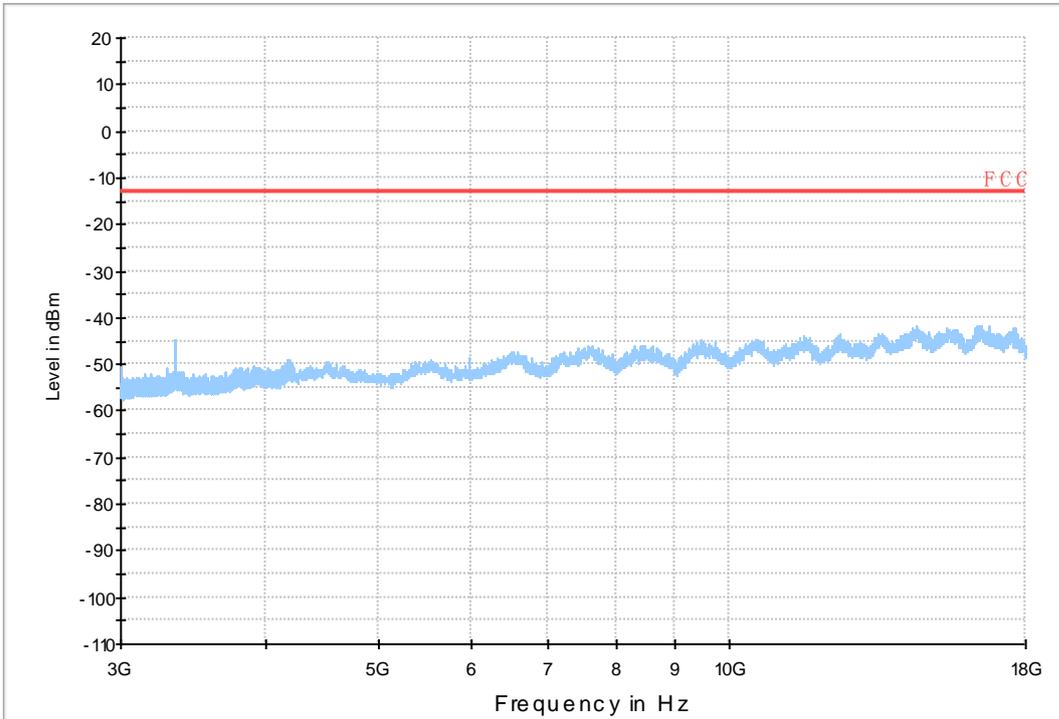
7.1.1.1 Test Bandwidth = 1.4



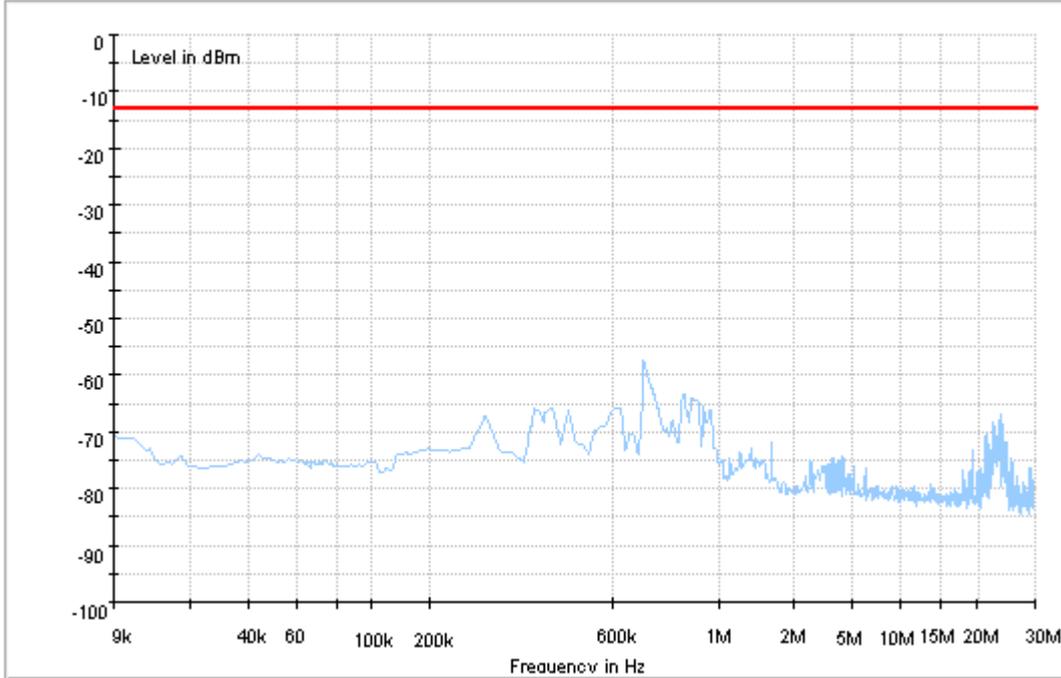
Copy of FCC PART22 LTE Band 5_L



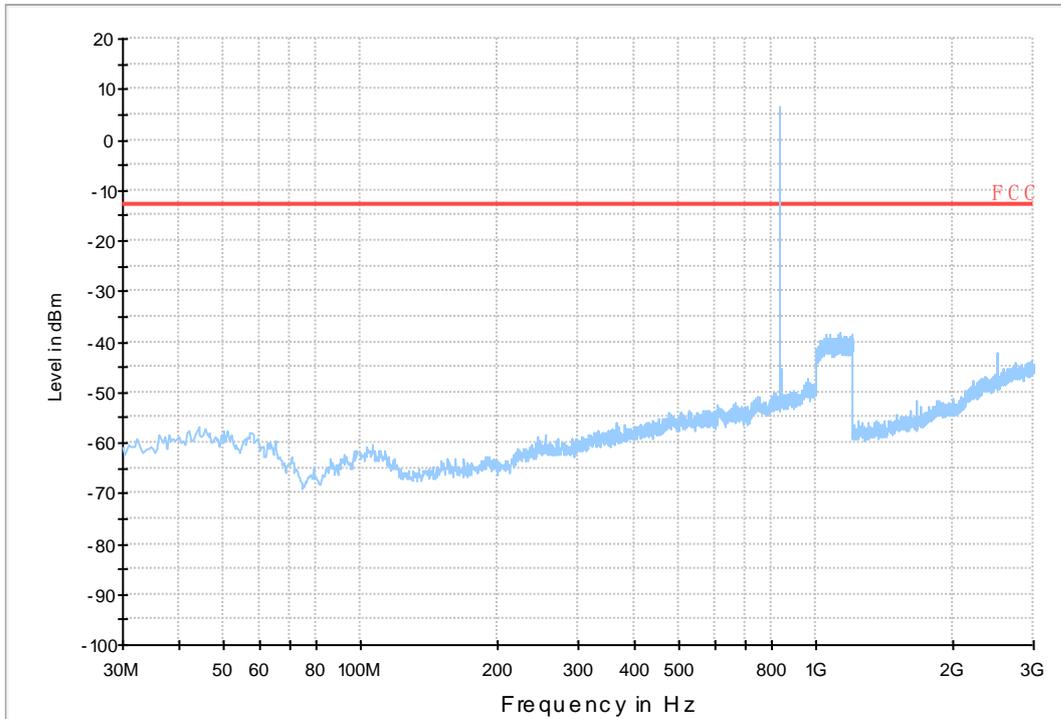
Copy of FCC PART22 LTE Band 5_H



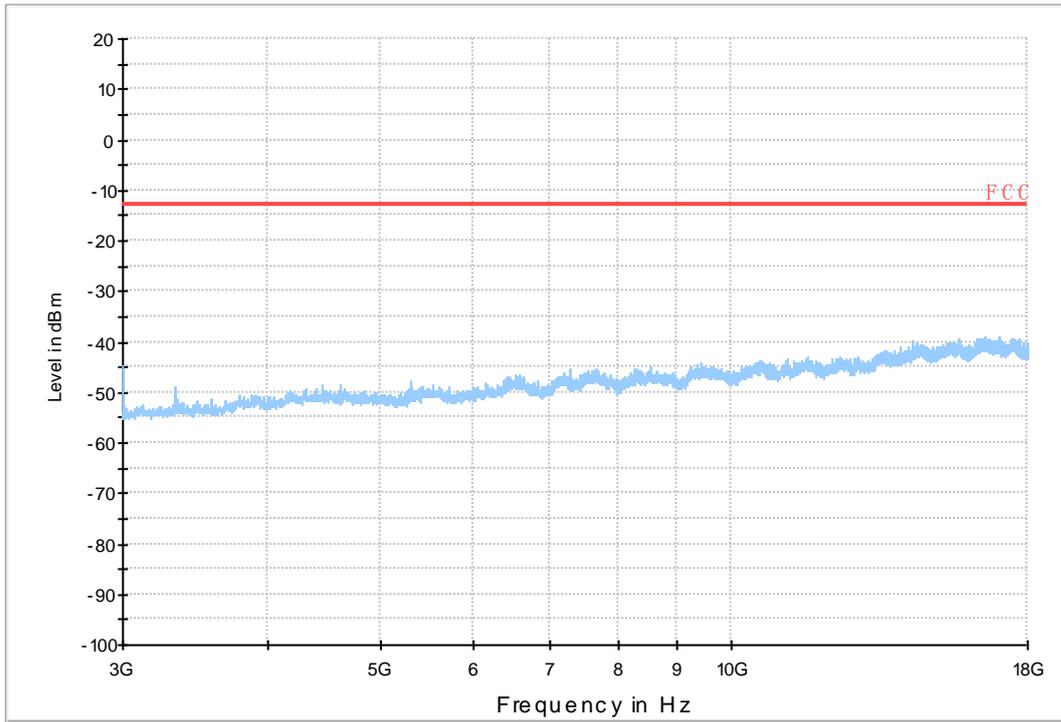
7.1.1.3 Test Bandwidth = 10



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	-1.4	-0.0017	PASS
					VN	-2.33	-0.00283	PASS
					VH	-1.03	-0.00125	PASS
			MCH	TN	VL	0.5	0.0006	PASS
					VN	0.84	0.001	PASS
					VH	1.03	0.00123	PASS
			HCH	TN	VL	-1.34	-0.00158	PASS
					VN	-2.68	-0.00316	PASS
					VH	0.69	0.00081	PASS
		3	LCH	TN	VL	0.13	0.00016	PASS
					VN	2.43	0.00294	PASS
					VH	-1.29	-0.00156	PASS
			MCH	TN	VL	0.34	0.00041	PASS
					VN	-0.53	-0.00063	PASS
					VH	-0.29	-0.00035	PASS
			HCH	TN	VL	-3.5	-0.00413	PASS
					VN	-1.56	-0.00184	PASS
					VH	2.63	0.0031	PASS
		5	LCH	TN	VL	-0.74	-0.0009	PASS
					VN	-0.5	-0.0006	PASS
					VH	-0.63	-0.00076	PASS
			MCH	TN	VL	0.07	0.00008	PASS
					VN	-0.72	-0.00086	PASS
					VH	0.17	0.0002	PASS
HCH	TN		VL	-0.63	-0.00074	PASS		
			VN	-1.03	-0.00122	PASS		
			VH	-0.11	-0.00013	PASS		
10	LCH	TN	VL	-1.46	-0.00176	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
			MCH	TN	VN	-0.93	-0.00112	PASS		
					VH	-0.17	-0.00021	PASS		
					VL	-0.24	-0.00029	PASS		
					VN	-0.26	-0.00031	PASS		
					VH	-0.44	-0.00053	PASS		
					VH	-0.44	-0.00053	PASS		
			HCH	TN	VL	0.89	0.00105	PASS		
					VN	2.83	0.00335	PASS		
					VH	1.7	0.00201	PASS		
					VH	1.7	0.00201	PASS		
					VH	1.7	0.00201	PASS		
					VH	1.7	0.00201	PASS		
			LTE/TM2	1.4	LCH	TN	VL	-0.93	-0.00113	PASS
							VN	-3.2	-0.00388	PASS
	VH	-1.42					-0.00172	PASS		
	VL	-0.89					-0.00106	PASS		
	VN	0.2					0.00024	PASS		
	VH	-3.22					-0.00385	PASS		
	VH	-3.22					-0.00385	PASS		
	VL	0.93					0.0011	PASS		
	VN	-0.96					-0.00113	PASS		
	VH	1.67			0.00197	PASS				
	VH	1.67			0.00197	PASS				
	HCH	TN			VL	0.93	0.0011	PASS		
					VN	-0.96	-0.00113	PASS		
					VH	1.67	0.00197	PASS		
					VH	1.67	0.00197	PASS		
					VH	1.67	0.00197	PASS		
					VH	1.67	0.00197	PASS		
	3	LCH			TN	VL	1.14	0.00138	PASS	
				VN		-1.89	-0.00229	PASS		
				VH		-0.49	-0.00059	PASS		
		MCH		TN	VL	-0.96	-0.00115	PASS		
					VN	-1.82	-0.00218	PASS		
					VH	-0.84	-0.001	PASS		
	HCH	TN		VL	-2.85	-0.00336	PASS			
			VN	-2.63	-0.0031	PASS				
			VH	-1.06	-0.00125	PASS				
	5	LCH	TN	VL	-1.9	-0.0023	PASS			
				VN	-2.17	-0.00263	PASS			
				VH	-1.07	-0.00129	PASS			
				VL	-0.2	-0.00024	PASS			
VN				0	0	PASS				
VH				-1.32	-0.00158	PASS				
MCH		TN	VL	-0.2	-0.00024	PASS				
			VN	0	0	PASS				
			VH	-1.32	-0.00158	PASS				
			VL	2.76	0.00326	PASS				
			VN	-0.2	-0.00024	PASS				
			VH	-1.07	-0.00126	PASS				
10	LCH	TN	VL	-1.17	-0.00141	PASS				
			VN	-0.49	-0.00059	PASS				
			VH	-0.09	-0.00011	PASS				
	MCH	TN	VL	-0.63	-0.00075	PASS				
			VN	-0.49	-0.00059	PASS				
			VH	-0.09	-0.00011	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-0.73	-0.00087	PASS
					VH	0.09	0.00011	PASS
			HCH	TN	VL	-0.13	-0.00015	PASS
					VN	1.26	0.00149	PASS
					VH	1.26	0.00149	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
BAND5	LTE/TM1	1.4	LCH	VN	-30	-2.6	-0.00315	PASS
					-20	-1.86	-0.00226	PASS
					-10	-0.63	-0.00076	PASS
					0	-1.54	-0.00187	PASS
					10	-3.68	-0.00446	PASS
					20	-2.56	-0.0031	PASS
					30	-2.43	-0.00295	PASS
					40	-2.39	-0.0029	PASS
			50	-3.78	-0.00458	PASS		
			MCH	VN	-30	-1.3	-0.00155	PASS
					-20	0.2	0.00024	PASS
					-10	1.49	0.00178	PASS
					0	-1.92	-0.0023	PASS
					10	-3.71	-0.00444	PASS
					20	-1.97	-0.00236	PASS
					30	-3.68	-0.0044	PASS
					40	-1.17	-0.0014	PASS
			HCH	VN	-30	-1.57	-0.00185	PASS
					-20	-0.69	-0.00081	PASS
					-10	-1.46	-0.00172	PASS
					0	0.19	0.00022	PASS
					10	0.96	0.00113	PASS
					20	-0.37	-0.00044	PASS
					30	-0.5	-0.00059	PASS
		40			-1.09	-0.00128	PASS	
		50	1.6	0.00189	PASS			
		3	LCH	VN	-30	-0.7	-0.00085	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		5			-20	-0.94	-0.00114	PASS	
					-10	-1.27	-0.00154	PASS	
					0	0.31	0.00038	PASS	
					10	-2.03	-0.00246	PASS	
					20	-0.86	-0.00104	PASS	
					30	-0.26	-0.00031	PASS	
					40	-0.26	-0.00031	PASS	
					50	-0.1	-0.00012	PASS	
			MCH	VN	-30	-1	-0.0012	PASS	
					-20	-1.92	-0.0023	PASS	
					-10	-1.34	-0.0016	PASS	
					0	-1.04	-0.00124	PASS	
					10	-0.57	-0.00068	PASS	
					20	-0.74	-0.00088	PASS	
					30	-1.39	-0.00166	PASS	
					40	-0.49	-0.00059	PASS	
			HCH	VN	-30	-2.13	-0.00251	PASS	
					-20	-2.9	-0.00342	PASS	
					-10	-2.75	-0.00324	PASS	
					0	-2.7	-0.00319	PASS	
					10	-1.56	-0.00184	PASS	
					20	-1.75	-0.00206	PASS	
					30	-1.07	-0.00126	PASS	
					40	-2.19	-0.00258	PASS	
			5	LCH	VN	-30	-1.92	-0.00232	PASS
						-20	-1.95	-0.00236	PASS
						-10	-0.76	-0.00092	PASS
						0	-1.54	-0.00186	PASS
		10				-0.79	-0.00096	PASS	
		20				-1.44	-0.00174	PASS	
		30				-2.39	-0.00289	PASS	
		40				-1.69	-0.00204	PASS	
		50		-0.93	-0.00113	PASS			
		MCH		VN	-30	-1.36	-0.00163	PASS	
					-20	-1.43	-0.00171	PASS	
					-10	-1.4	-0.00167	PASS	
			0		-2.02	-0.00241	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-0.43	-0.00051	PASS		
					20	-0.97	-0.00116	PASS		
					30	-0.72	-0.00086	PASS		
					40	-1.69	-0.00202	PASS		
					50	-1.17	-0.0014	PASS		
			HCH	VN	-30	-0.03	-0.00004	PASS		
					-20	-0.13	-0.00015	PASS		
					-10	-0.19	-0.00022	PASS		
					0	-0.07	-0.00008	PASS		
					10	-2.17	-0.00256	PASS		
					20	-1.89	-0.00223	PASS		
					30	-0.83	-0.00098	PASS		
					40	-0.34	-0.0004	PASS		
					50	-1.14	-0.00135	PASS		
					LCH	VN	-30	-0.94	-0.00113	PASS
							-20	0.29	0.00035	PASS
							-10	0.19	0.00023	PASS
							0	-0.37	-0.00045	PASS
							10	-1.69	-0.00204	PASS
							20	-1.52	-0.00183	PASS
		30	-0.44	-0.00053			PASS			
		40	-1.06	-0.00128			PASS			
		50	-0.92	-0.00111			PASS			
		MCH	VN	-30			-0.01	-0.00001	PASS	
				-20	-0.74	-0.00088	PASS			
				-10	-1.39	-0.00166	PASS			
				0	0.09	0.00011	PASS			
				10	0.26	0.00031	PASS			
				20	-0.11	-0.00013	PASS			
				30	0.53	0.00063	PASS			
				40	-0.34	-0.00041	PASS			
		HCH	VN	50	-1.6	-0.00191	PASS			
				-30	1.24	0.00147	PASS			
				-20	0.16	0.00019	PASS			
				-10	0.53	0.00063	PASS			
				0	0.26	0.00031	PASS			
				10	-0.01	-0.00001	PASS			
				20	0.4	0.00047	PASS			
				30	0.59	0.0007	PASS			
		10					-30	-0.94	-0.00113	PASS
-20	0.29						0.00035	PASS		
-10	0.19						0.00023	PASS		
0	-0.37						-0.00045	PASS		
10	-1.69						-0.00204	PASS		
20	-1.52						-0.00183	PASS		
30	-0.44						-0.00053	PASS		
40	-1.06						-0.00128	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	LCH	VN	40	1.42	0.00168	PASS
					50	1.07	0.00127	PASS
					-30	-0.57	-0.00069	PASS
					-20	-1.53	-0.00186	PASS
					-10	-1.92	-0.00233	PASS
					0	-2.12	-0.00257	PASS
					10	-1.96	-0.00238	PASS
					20	-3.19	-0.00387	PASS
					30	-2.65	-0.00321	PASS
			40	-1.3	-0.00158	PASS		
			50	-1.92	-0.00233	PASS		
			MCH	VN	-30	-0.87	-0.00104	PASS
					-20	-1.69	-0.00202	PASS
					-10	-1.9	-0.00227	PASS
					0	-0.27	-0.00032	PASS
					10	-1.83	-0.00219	PASS
					20	-0.84	-0.001	PASS
					30	-0.79	-0.00094	PASS
		40			-0.99	-0.00118	PASS	
		50			-2.78	-0.00332	PASS	
		HCH	VN	-30	-0.57	-0.00067	PASS	
				-20	-3.32	-0.00391	PASS	
				-10	-1	-0.00118	PASS	
				0	-0.54	-0.00064	PASS	
				10	-1.9	-0.00224	PASS	
				20	-1.52	-0.00179	PASS	
				30	0.46	0.00054	PASS	
				40	-1.62	-0.00191	PASS	
				50	-0.49	-0.00058	PASS	
		3	LCH	VN	-30	-0.41	-0.0005	PASS
					-20	0.97	0.00118	PASS
					-10	-0.54	-0.00065	PASS
					0	-0.67	-0.00081	PASS
					10	-0.49	-0.00059	PASS
					20	0.93	0.00113	PASS
					30	1.03	0.00125	PASS
40	0.76				0.00092	PASS		
50	-1.23				-0.00149	PASS		
MCH	VN		-30	-0.76	-0.00091	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		5			-20	-1.1	-0.00132	PASS
					-10	-1.12	-0.00134	PASS
					0	-1.85	-0.00221	PASS
					10	-0.77	-0.00092	PASS
					20	-0.99	-0.00118	PASS
					30	-0.06	-0.00007	PASS
					40	-1.46	-0.00175	PASS
					50	-1.32	-0.00158	PASS
			HCH	VN	-30	-2.49	-0.00294	PASS
					-20	-1.6	-0.00189	PASS
					-10	-1.89	-0.00223	PASS
					0	-1.62	-0.00191	PASS
					10	-1.65	-0.00195	PASS
					20	-1.22	-0.00144	PASS
					30	-2.95	-0.00348	PASS
					40	-1.4	-0.00165	PASS
			LCH	VN	-30	-1.43	-0.00173	PASS
					-20	-0.16	-0.00019	PASS
					-10	0	0	PASS
					0	-2.47	-0.00299	PASS
					10	-1.03	-0.00125	PASS
					20	-0.74	-0.0009	PASS
					30	-1.69	-0.00204	PASS
					40	-3.26	-0.00394	PASS
			MCH	VN	-30	-0.96	-0.00115	PASS
					-20	0	0	PASS
					-10	-1.52	-0.00182	PASS
					0	-1.54	-0.00184	PASS
		10			-2.85	-0.00341	PASS	
		20			-0.84	-0.001	PASS	
		30			-1.5	-0.00179	PASS	
		40			-0.51	-0.00061	PASS	
		HCH	VN	-30	-0.56	-0.00066	PASS	
				-20	-1.06	-0.00125	PASS	
				-10	-1.56	-0.00184	PASS	
				0	-2.39	-0.00282	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					10	0.1	0.00012	PASS			
					20	0.26	0.00031	PASS			
					30	1.12	0.00132	PASS			
					40	-0.01	-0.00001	PASS			
					50	-1.24	-0.00146	PASS			
					10	LCH	VN	-30	-1.65	-0.00199	PASS
								-20	-1.39	-0.00168	PASS
								-10	-0.09	-0.00011	PASS
								0	-0.79	-0.00095	PASS
								10	-1.16	-0.0014	PASS
		20	-0.4	-0.00048				PASS			
		30	-0.67	-0.00081				PASS			
		40	0.07	0.00008				PASS			
		50	-1.37	-0.00165				PASS			
		10	MCH	VN				-30	-1.33	-0.00159	PASS
					-20	-0.36	-0.00043	PASS			
					-10	-1.2	-0.00143	PASS			
					0	-0.57	-0.00068	PASS			
					10	-0.96	-0.00115	PASS			
					20	-0.67	-0.0008	PASS			
					30	-0.83	-0.00099	PASS			
					40	-1.02	-0.00122	PASS			
					50	-0.83	-0.00099	PASS			
					10	HCH	VN	-30	0.7	0.00083	PASS
		-20	-0.23	-0.00027				PASS			
		-10	-0.24	-0.00028				PASS			
		0	-0.41	-0.00049				PASS			
		10	-0.84	-0.001				PASS			
		20	-0.06	-0.00007				PASS			
		30	-0.11	-0.00013				PASS			
40	0.23	0.00027	PASS								
50	-0.96	-0.00114	PASS								

END