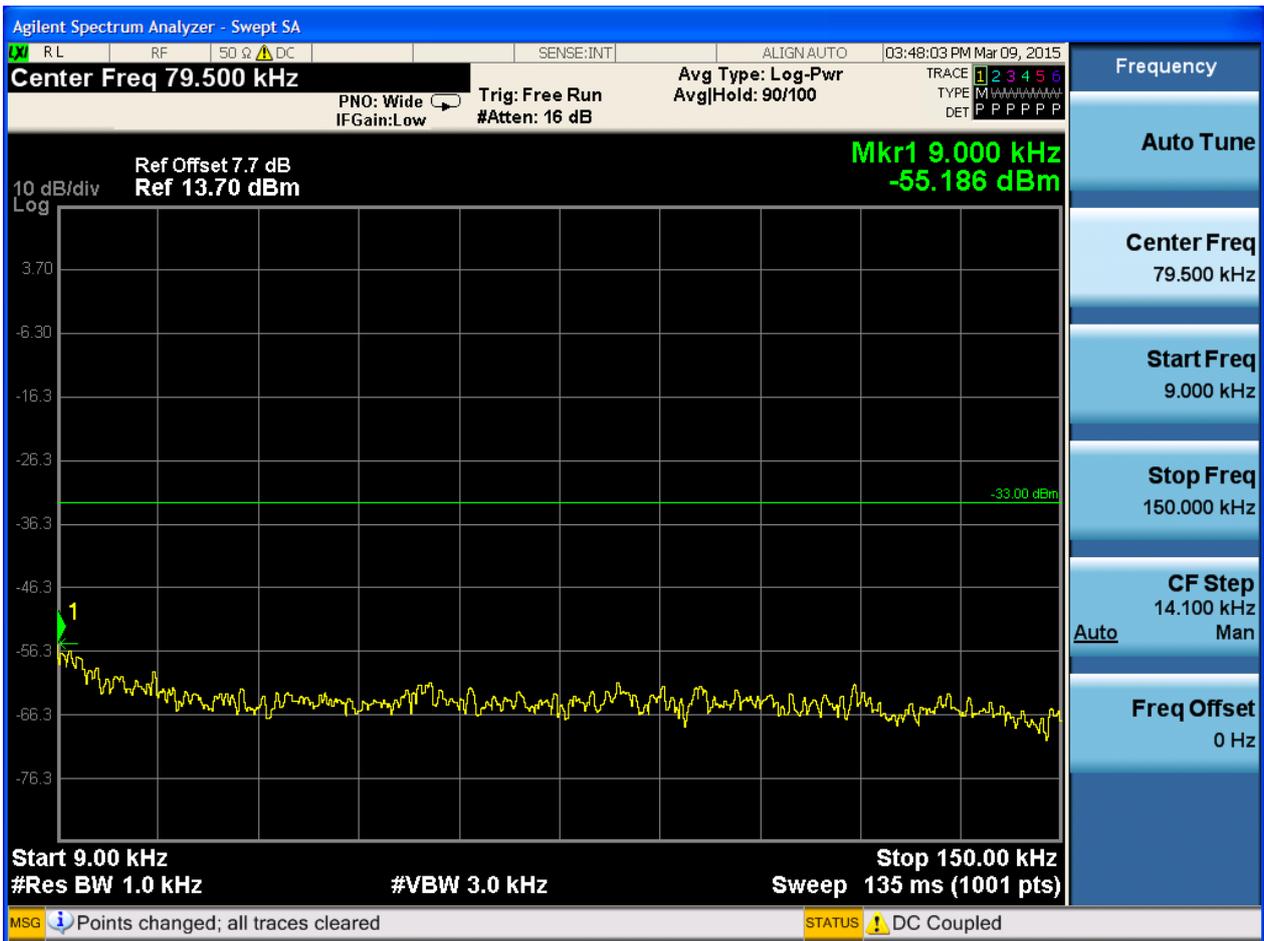


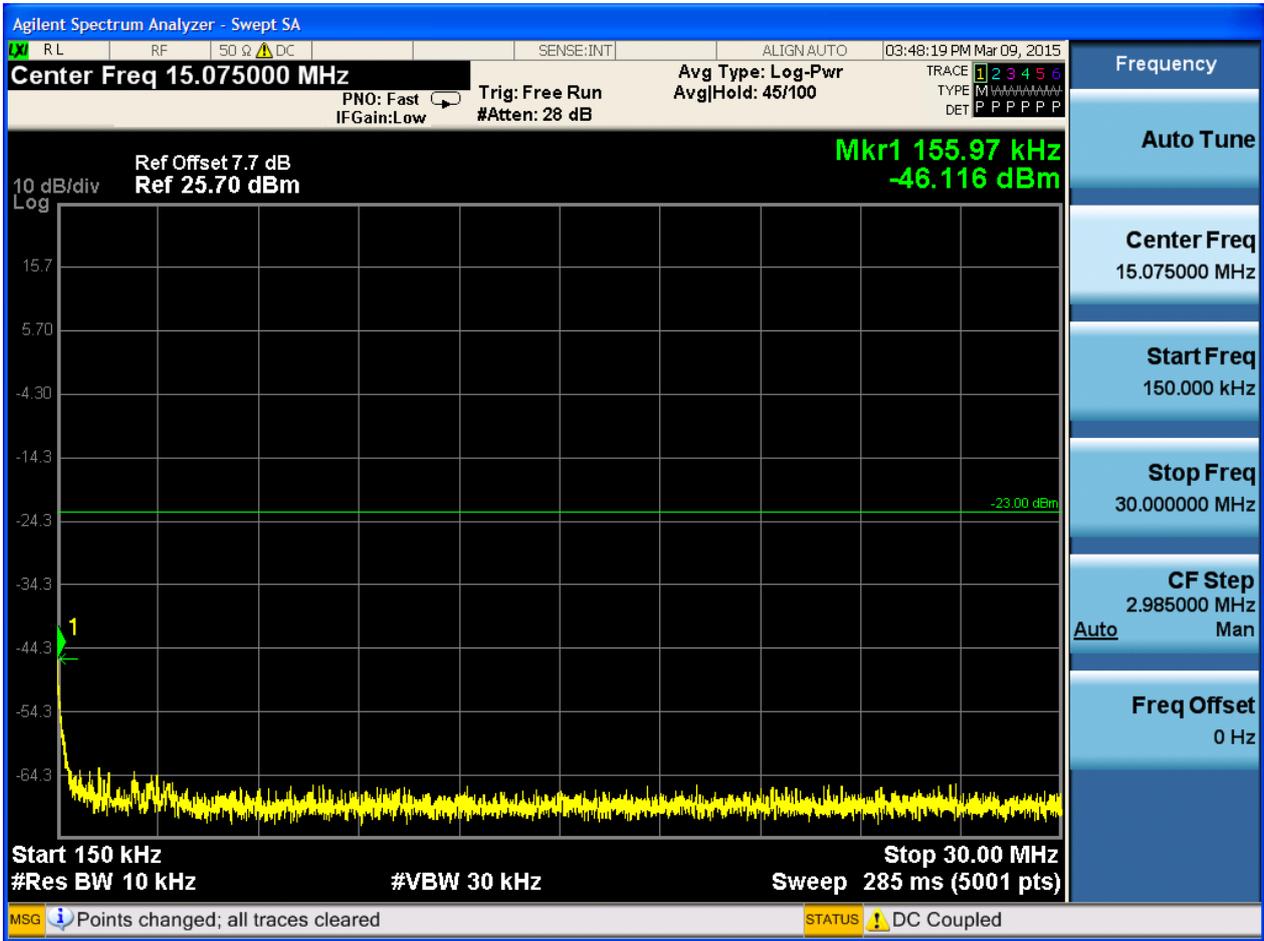


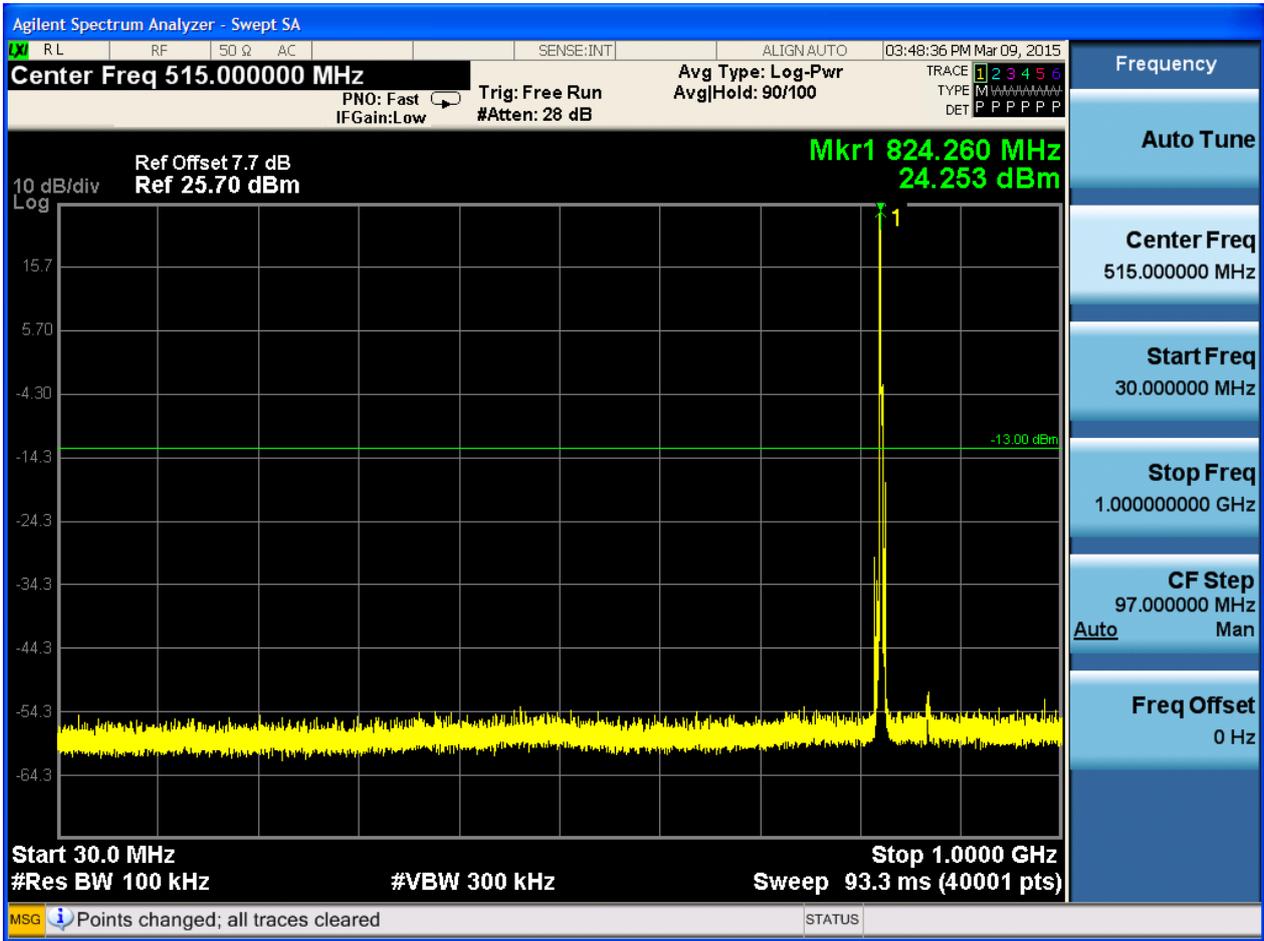
6.1.1.1.2 Test Bandwidth = 3

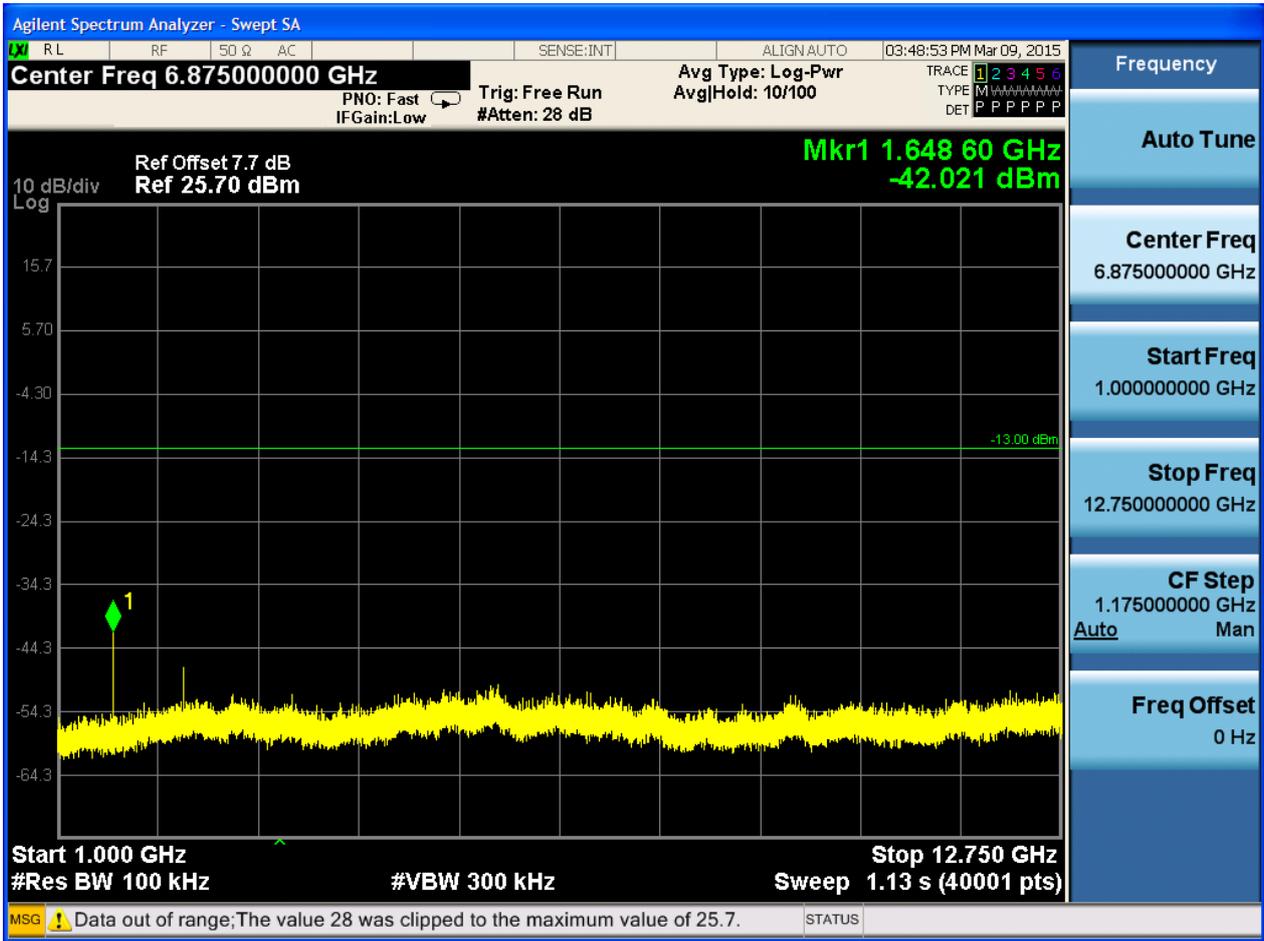
6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



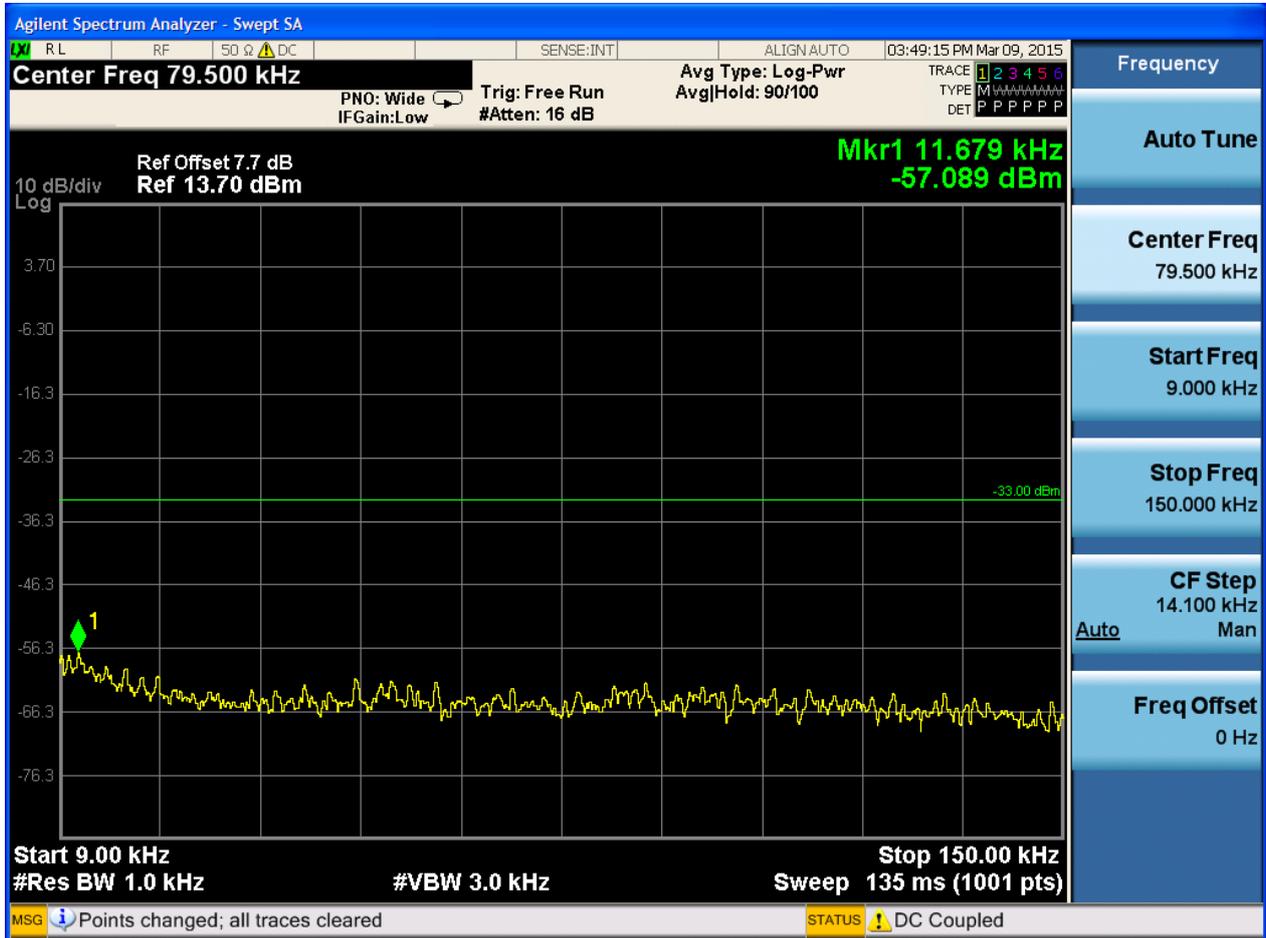


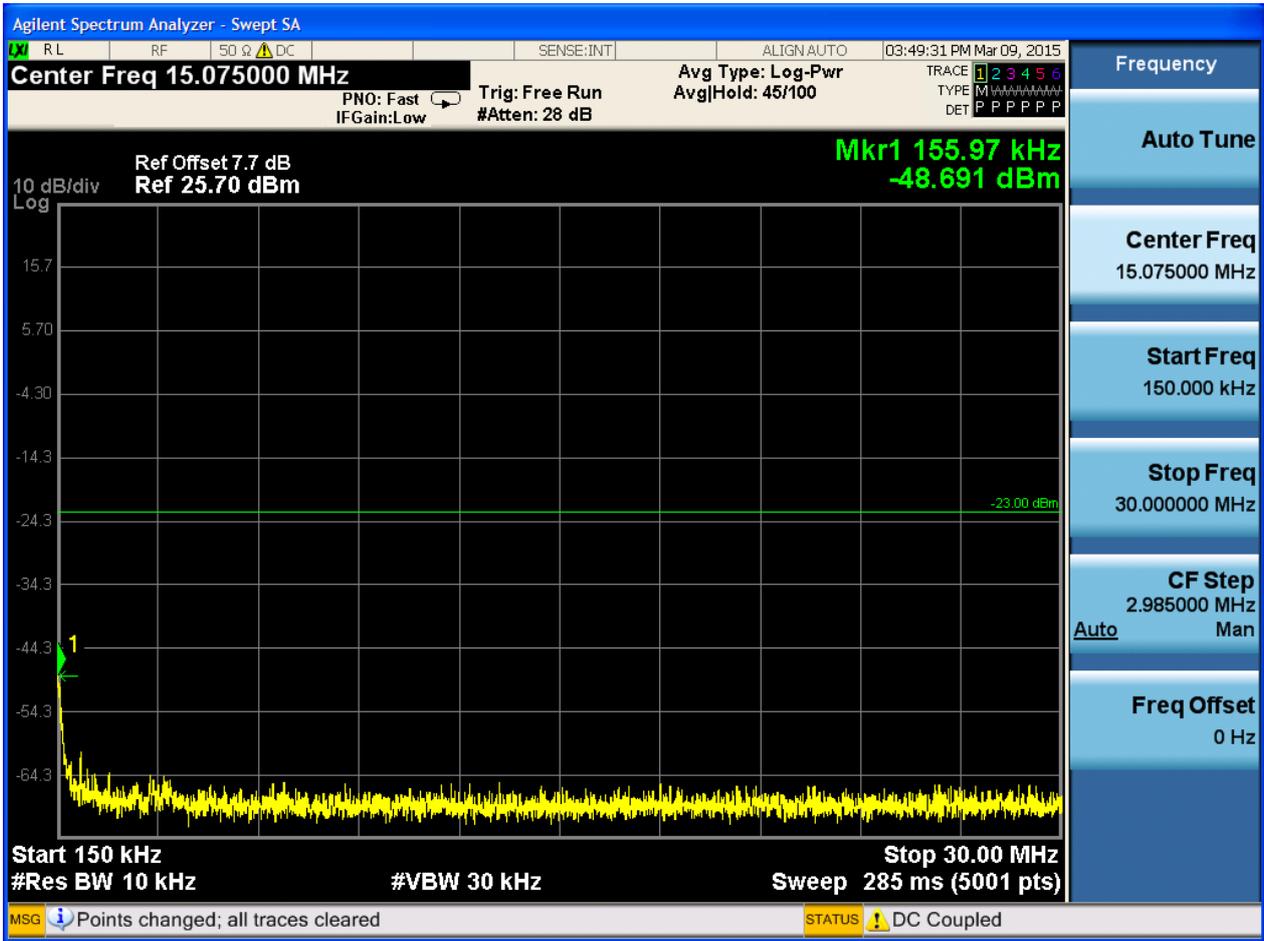


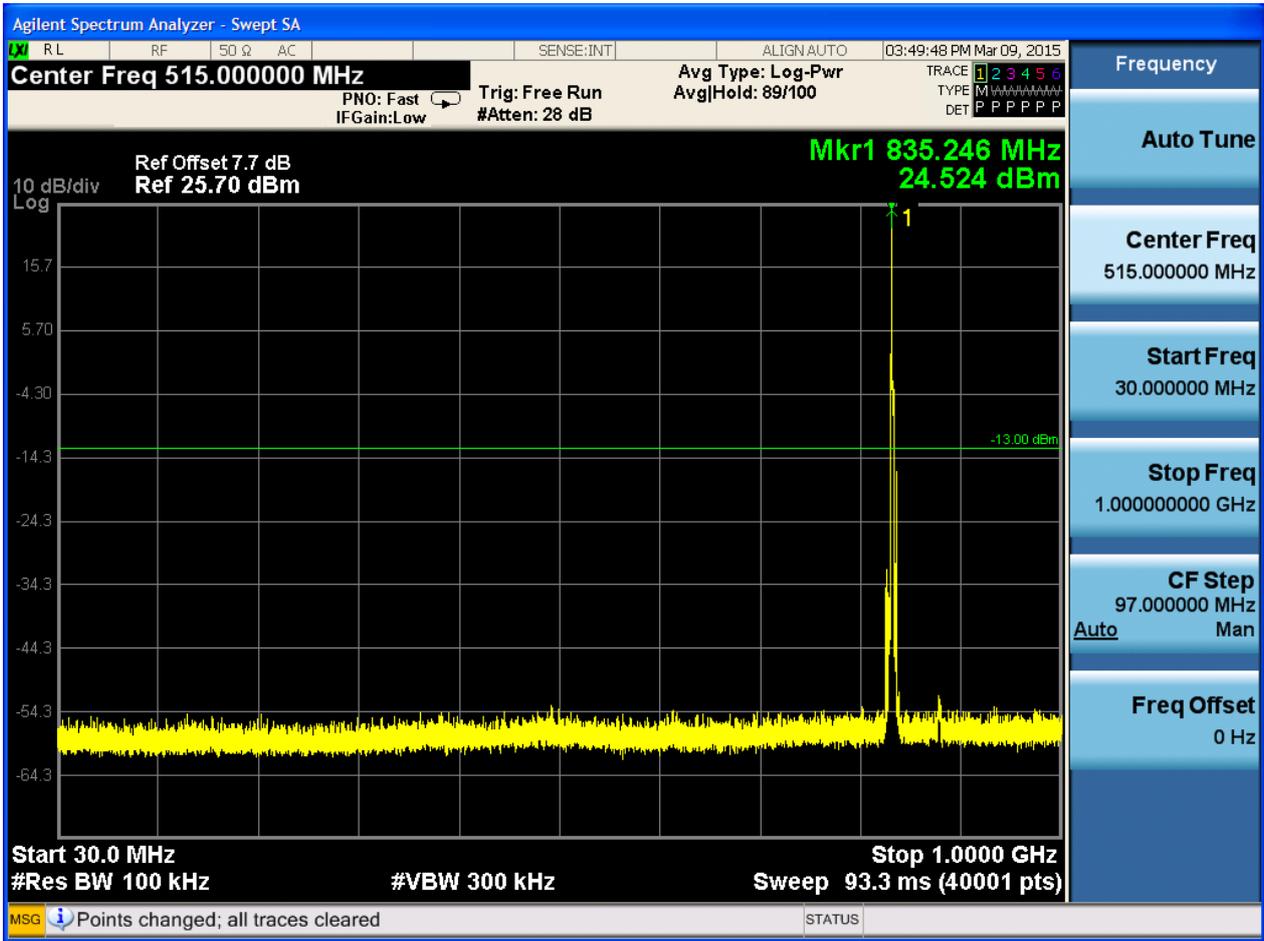


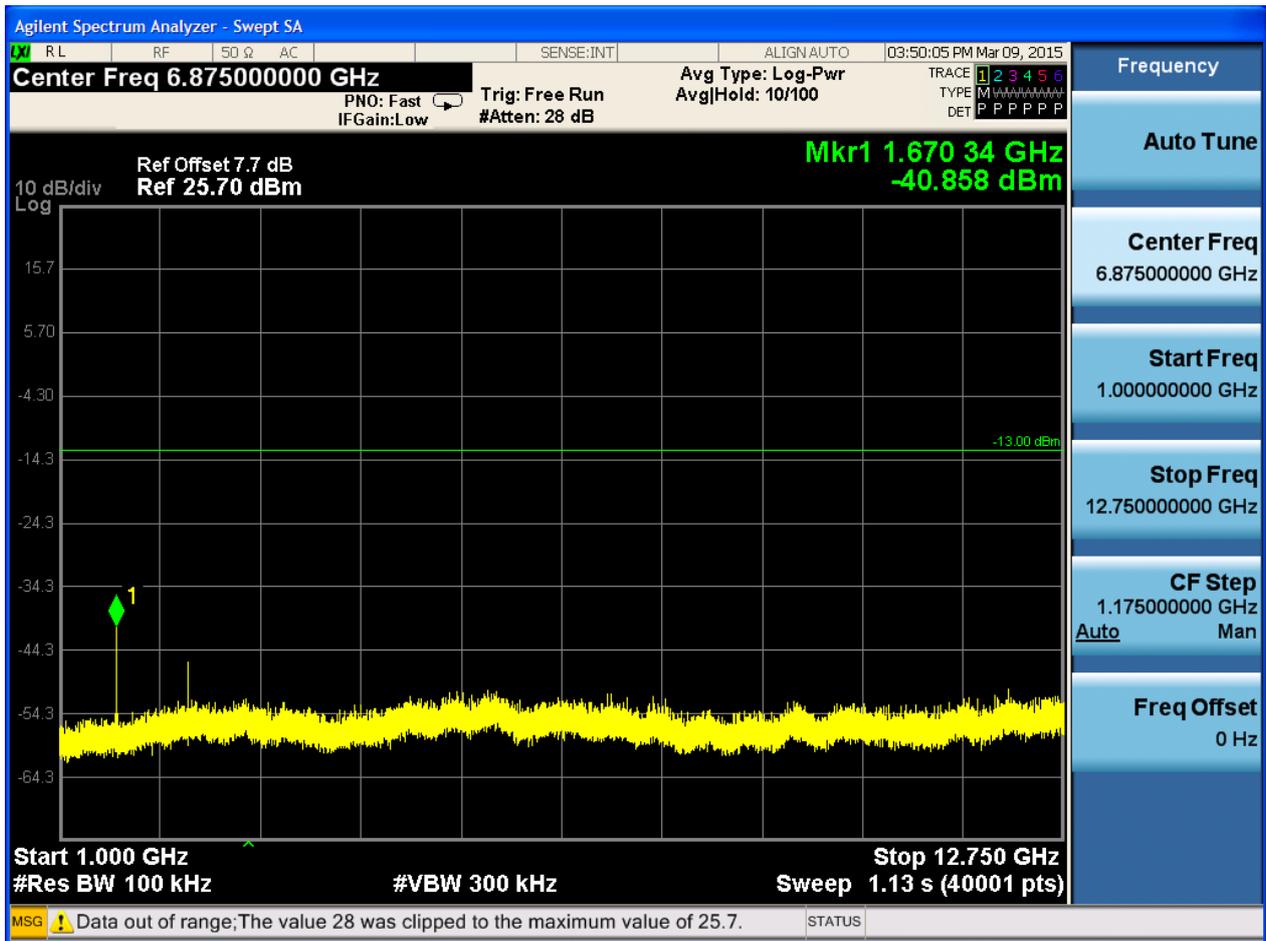
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0





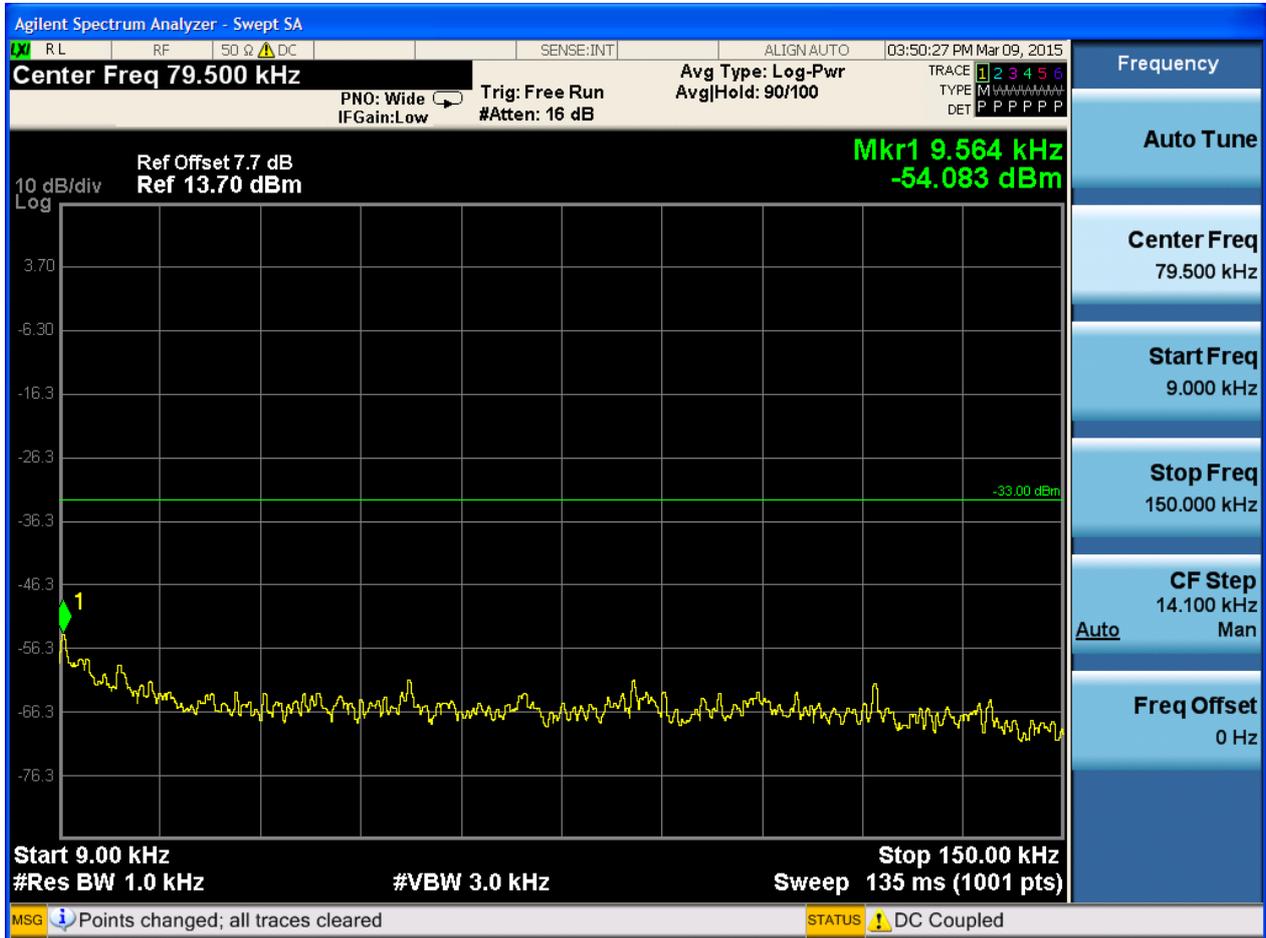


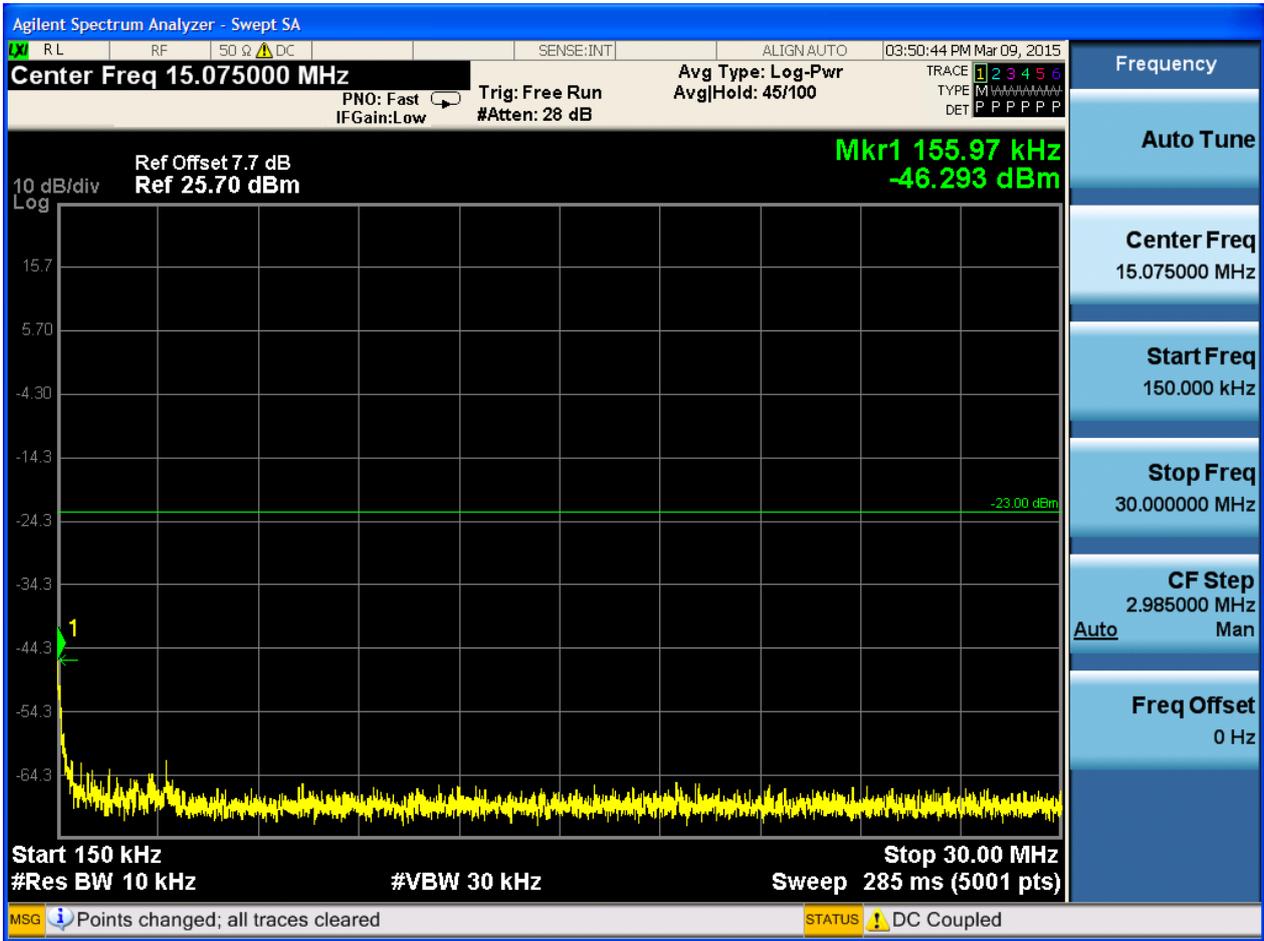


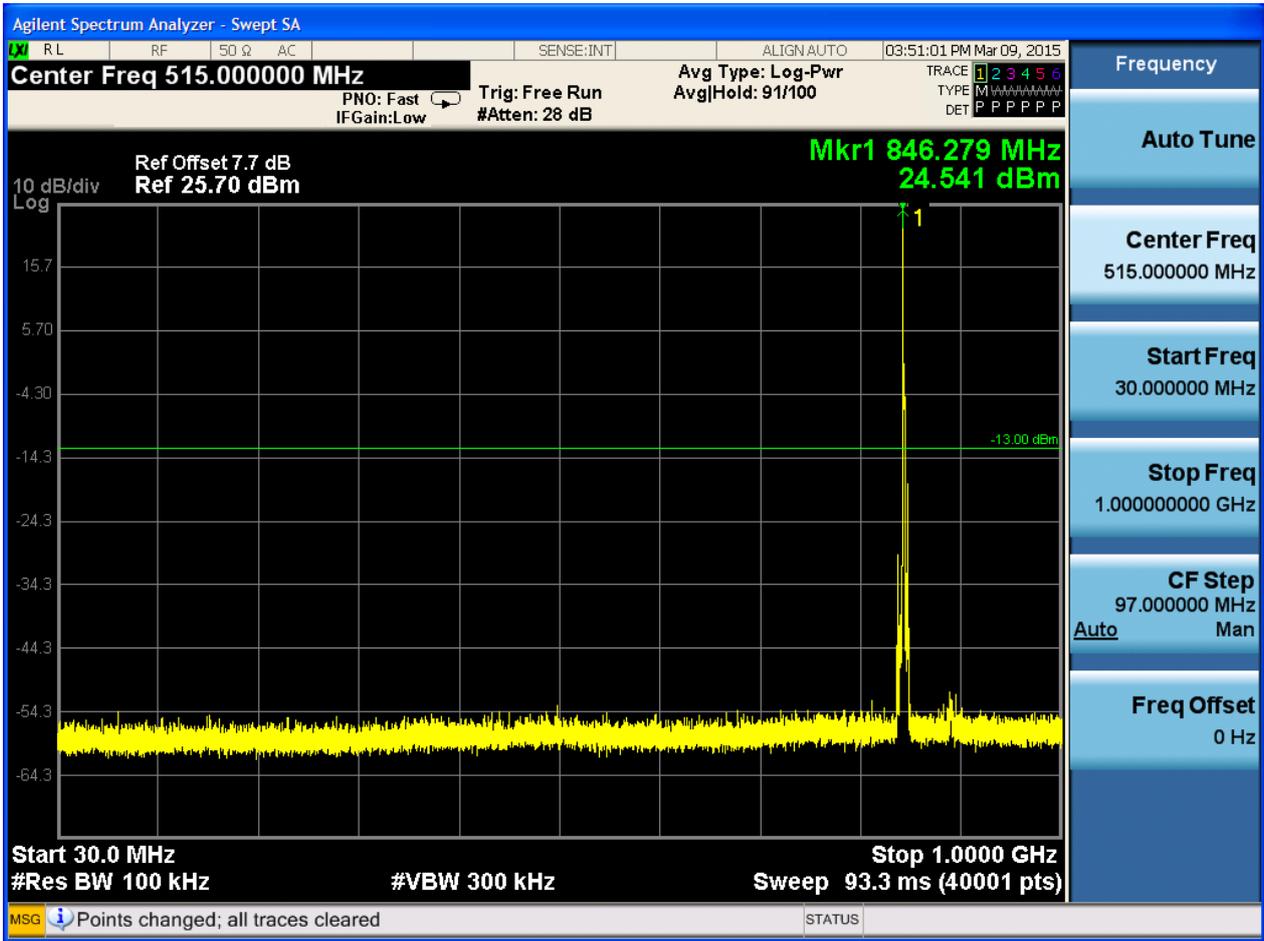


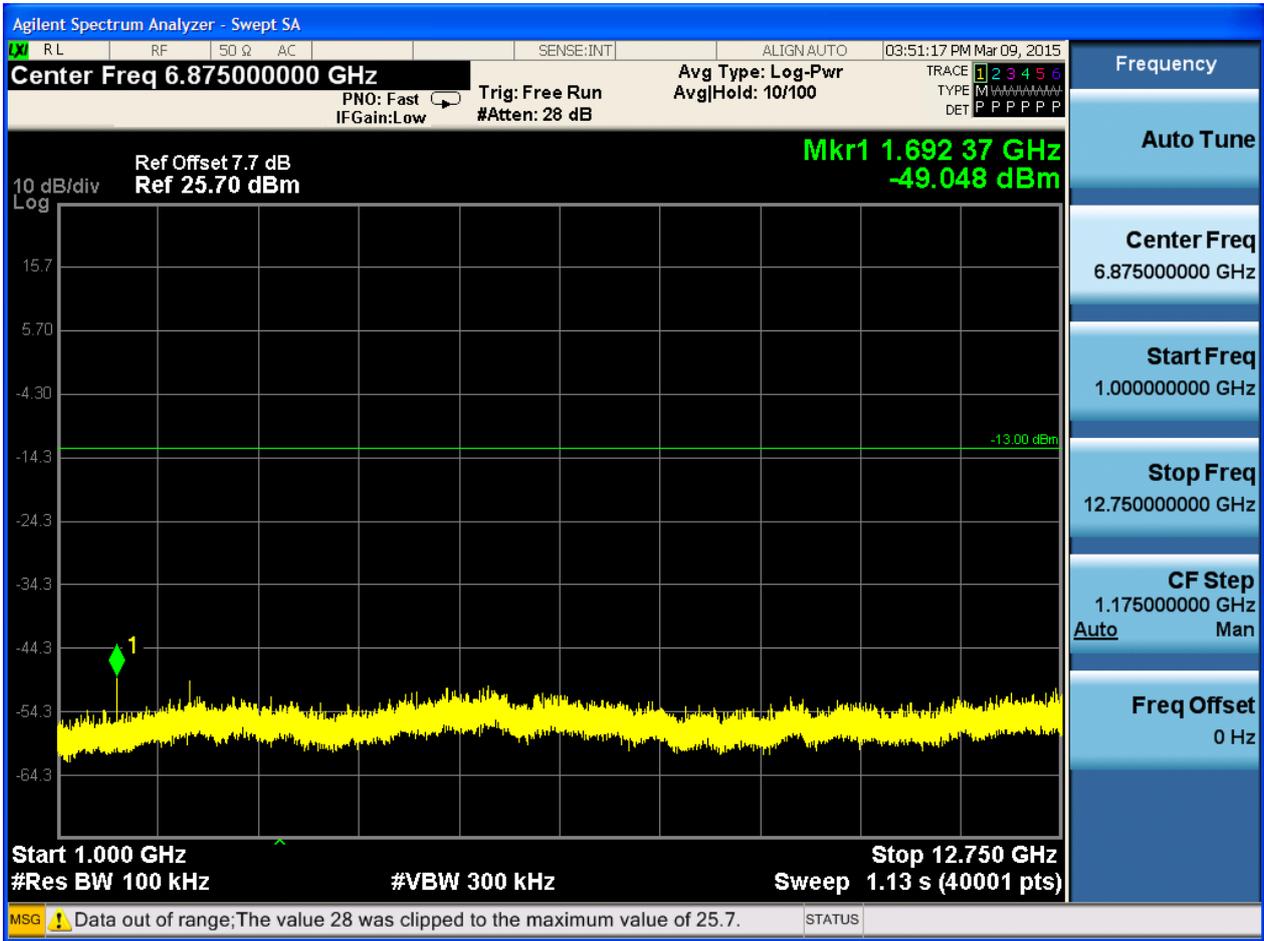
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







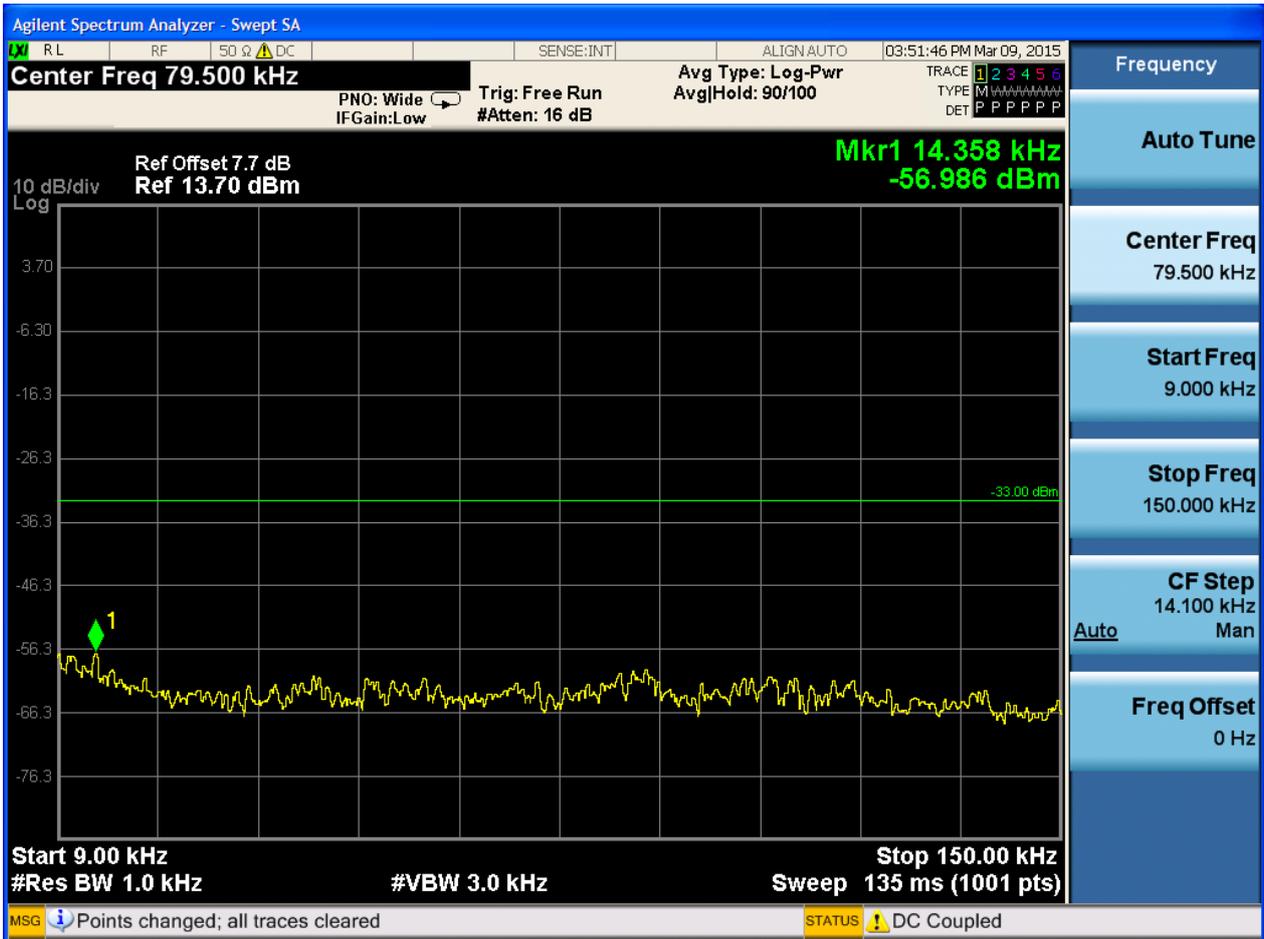


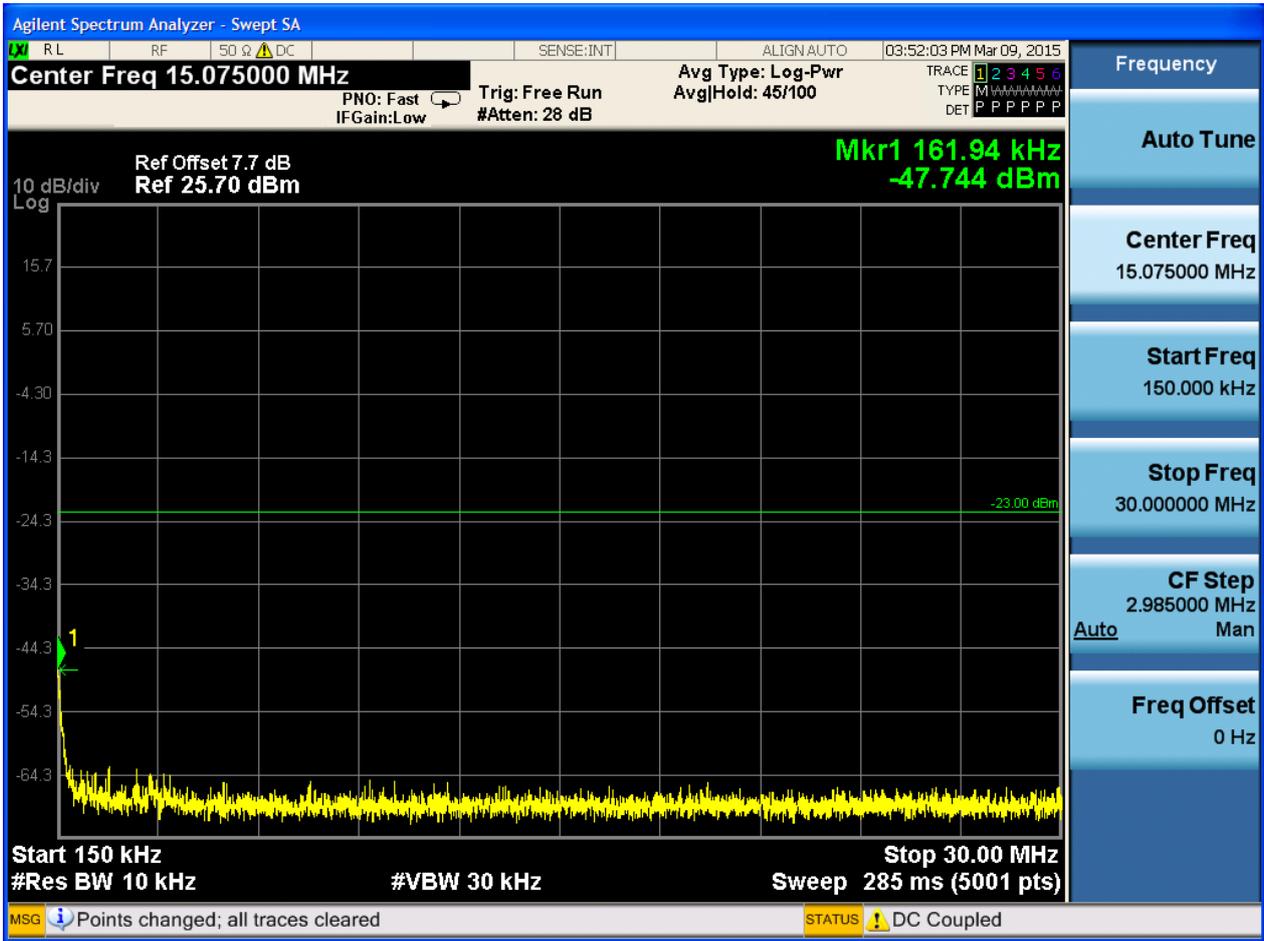


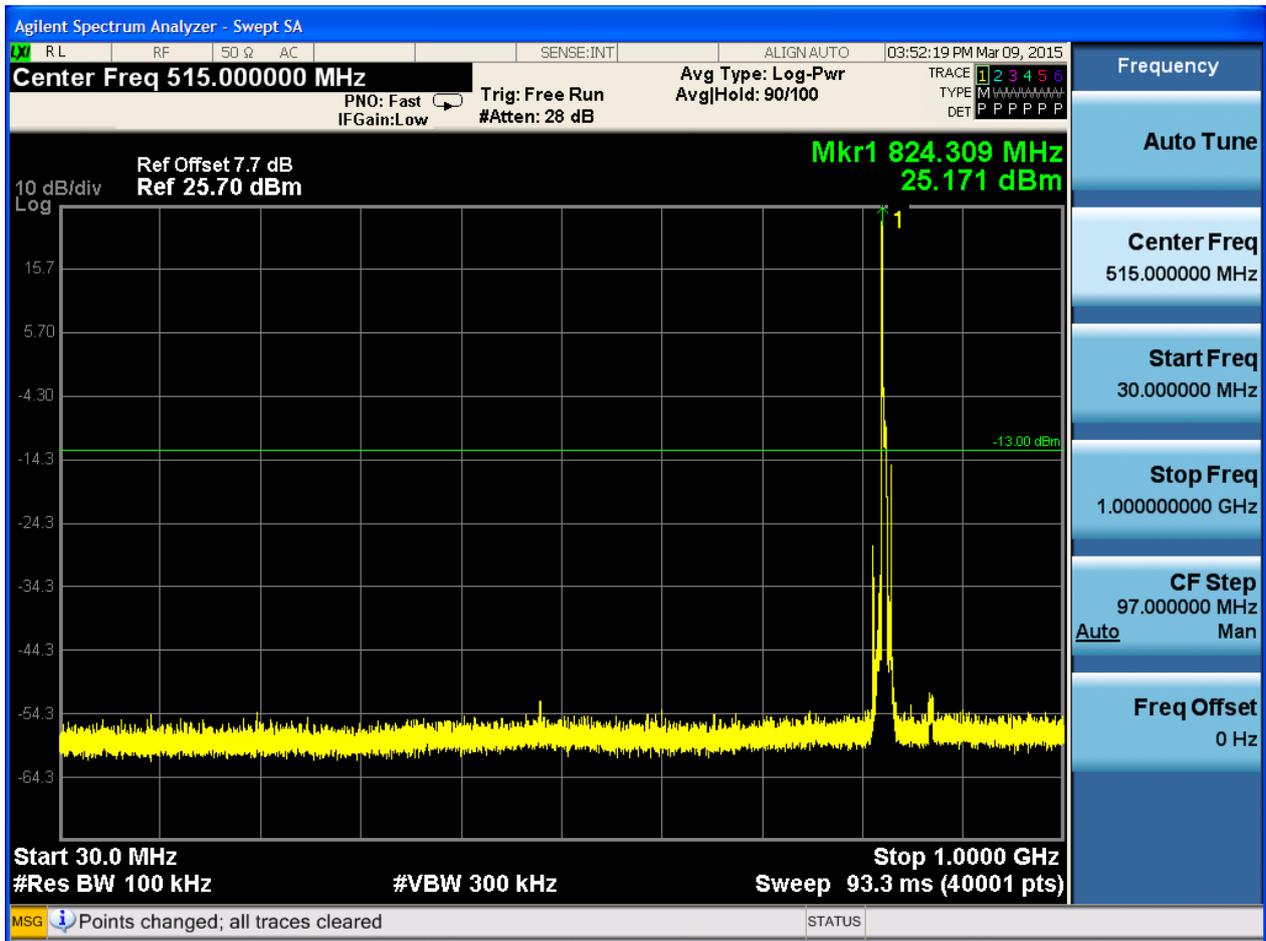
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0

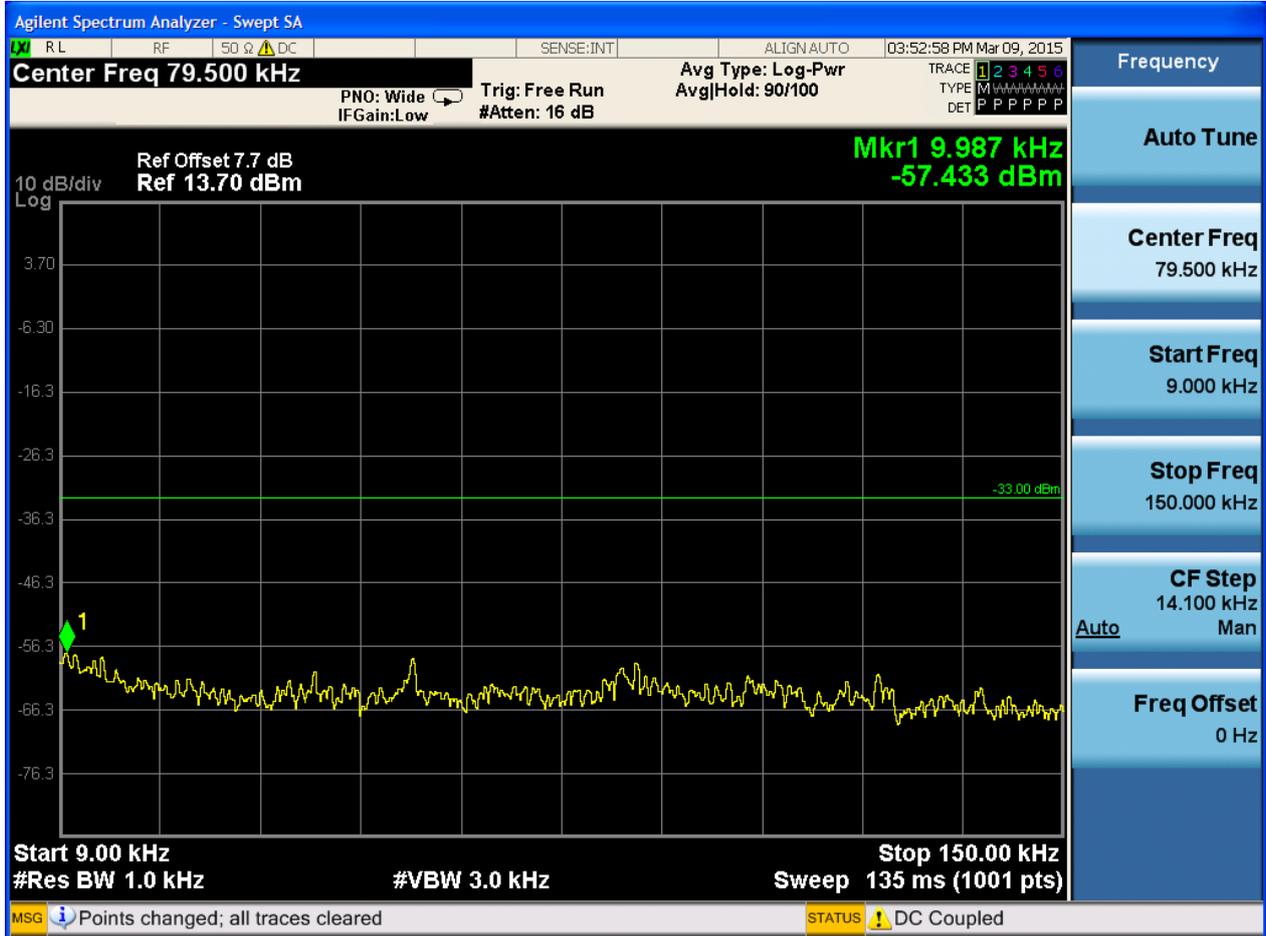


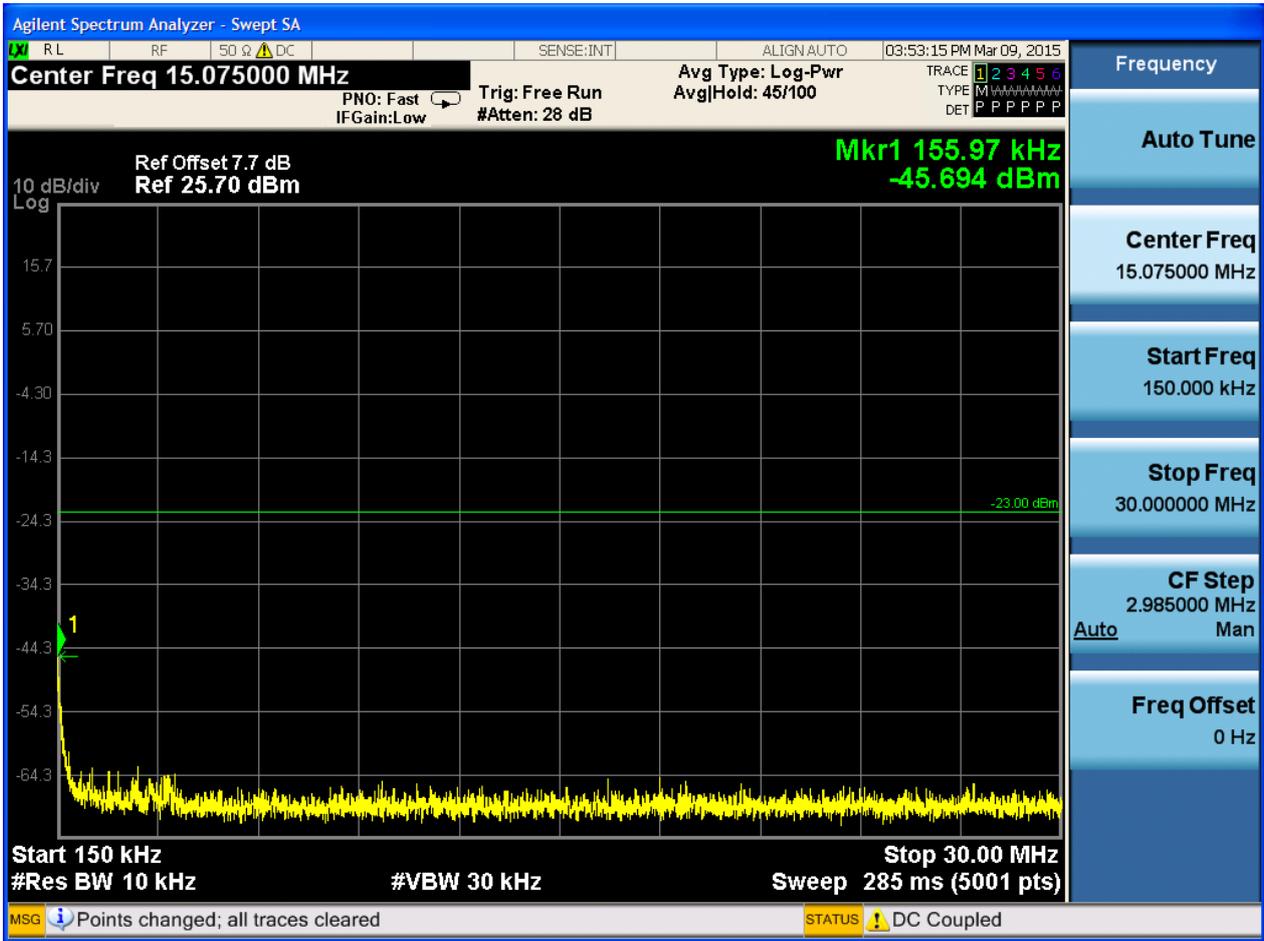


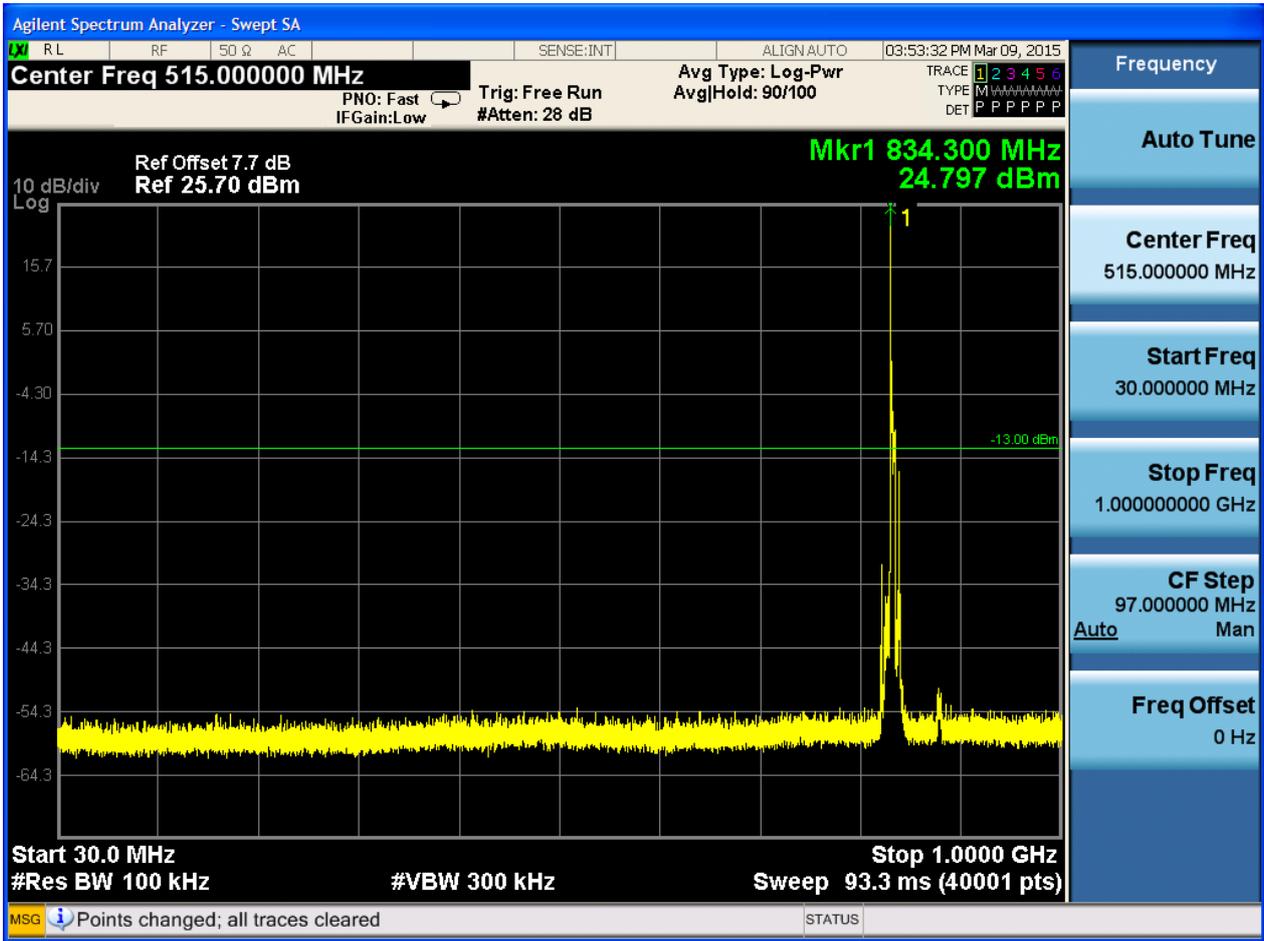


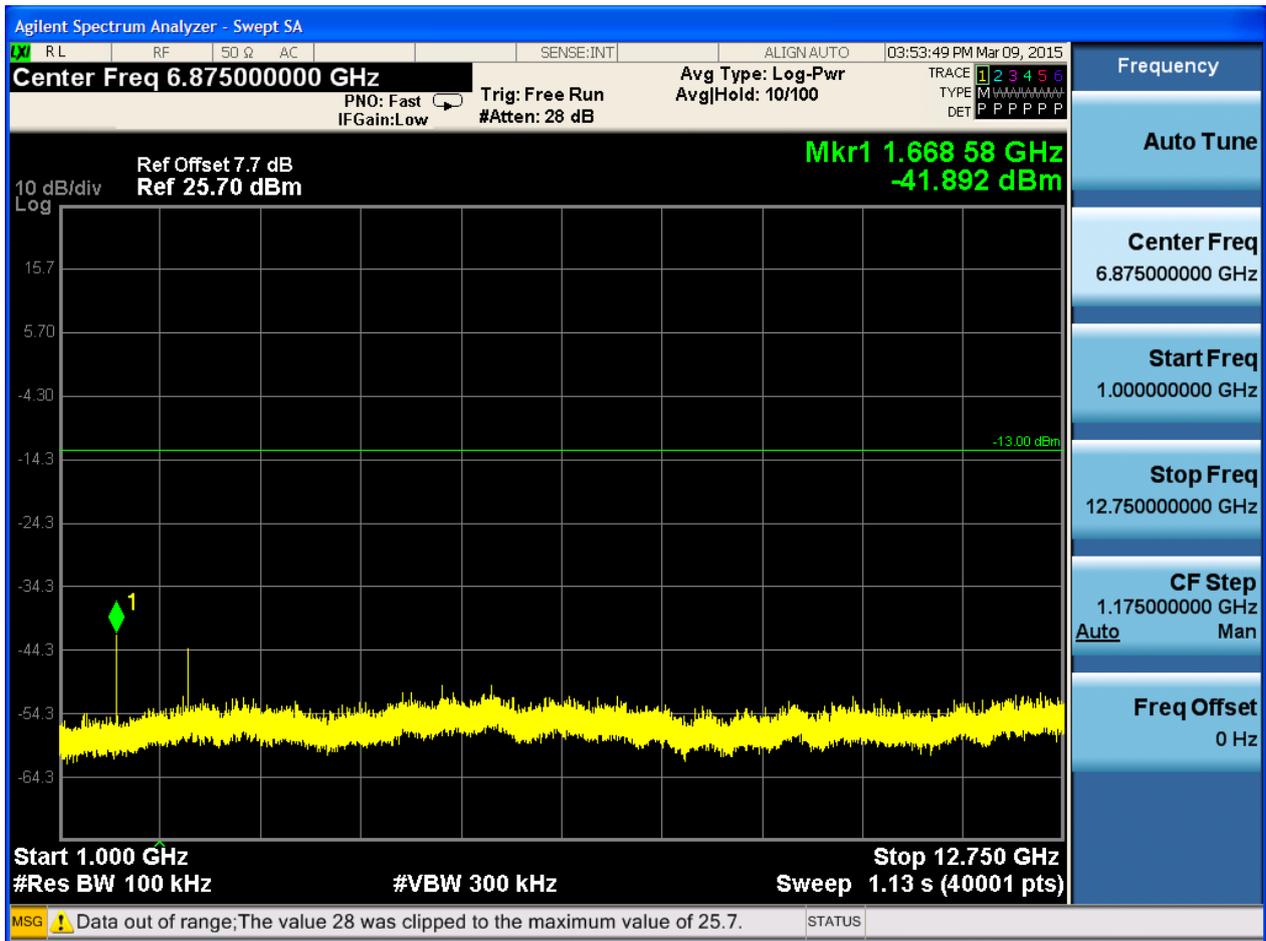
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



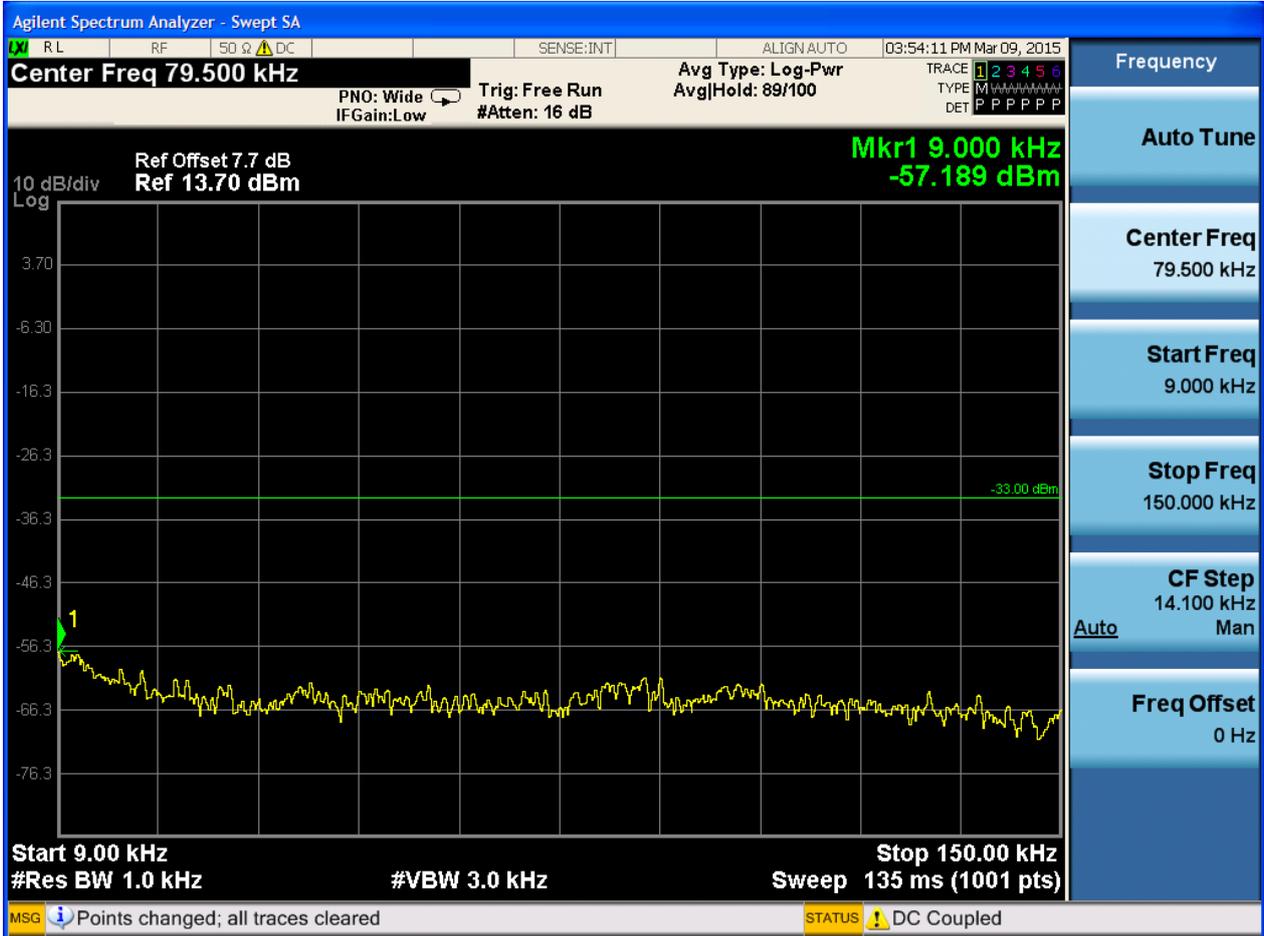


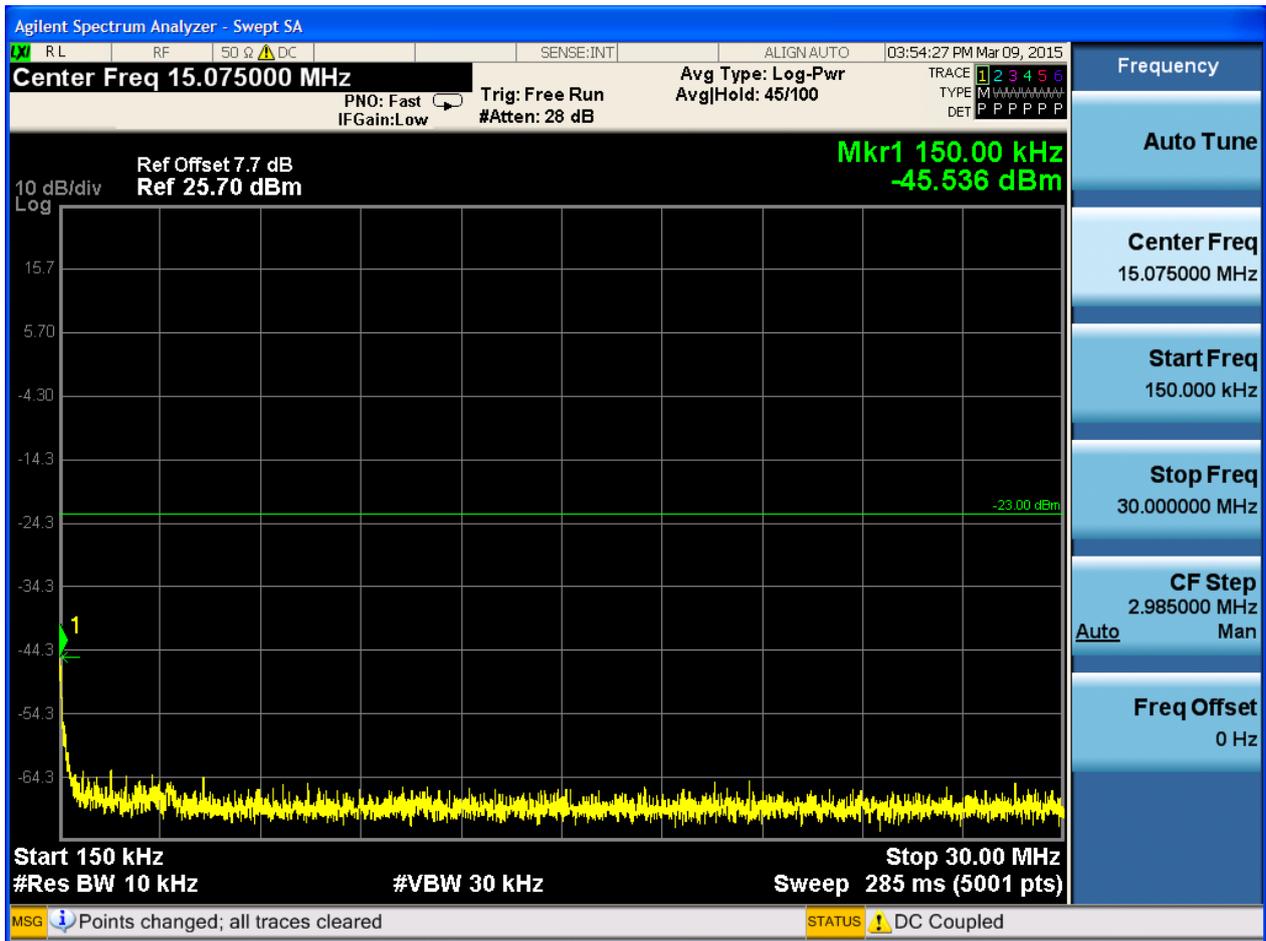


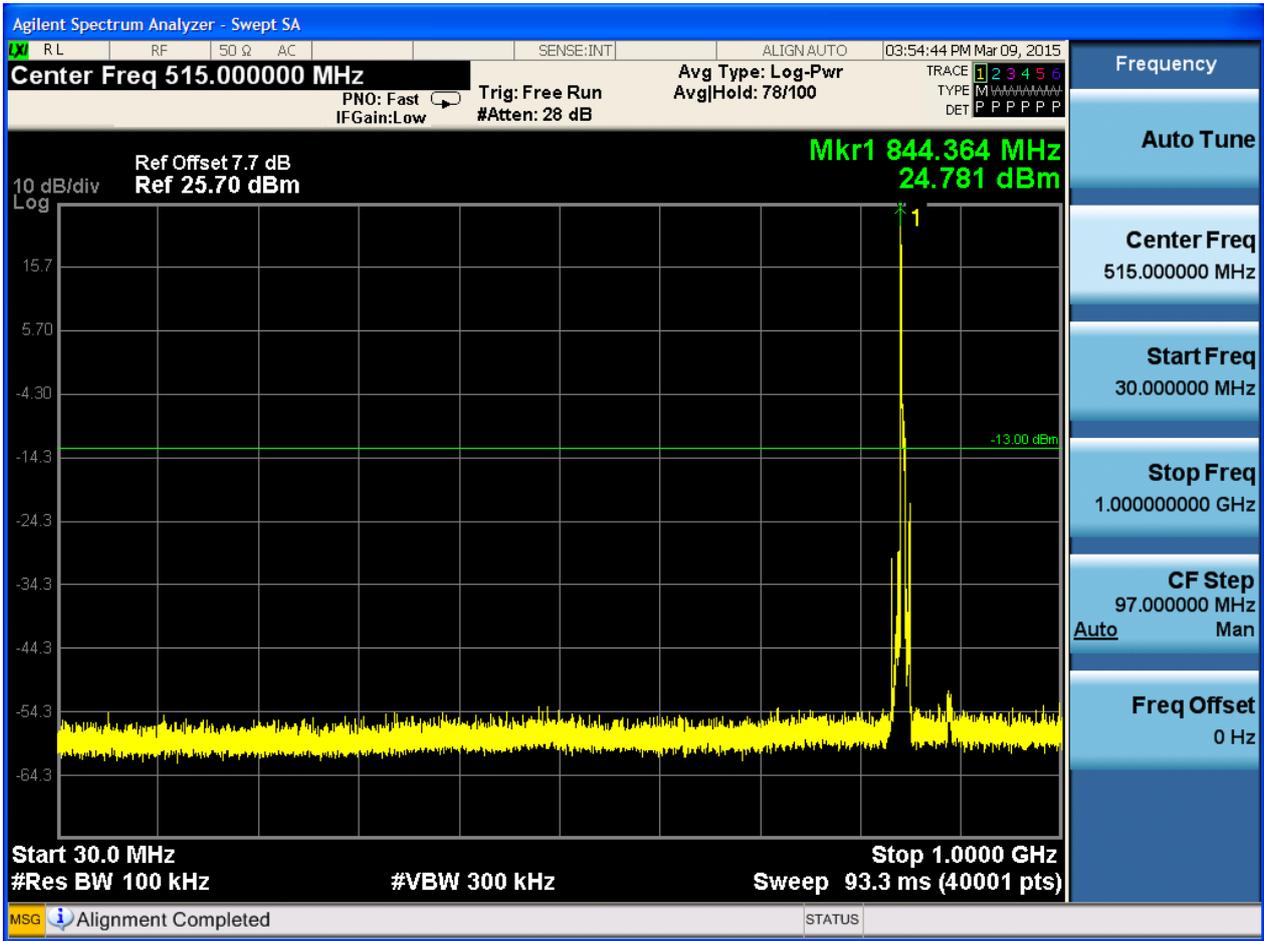


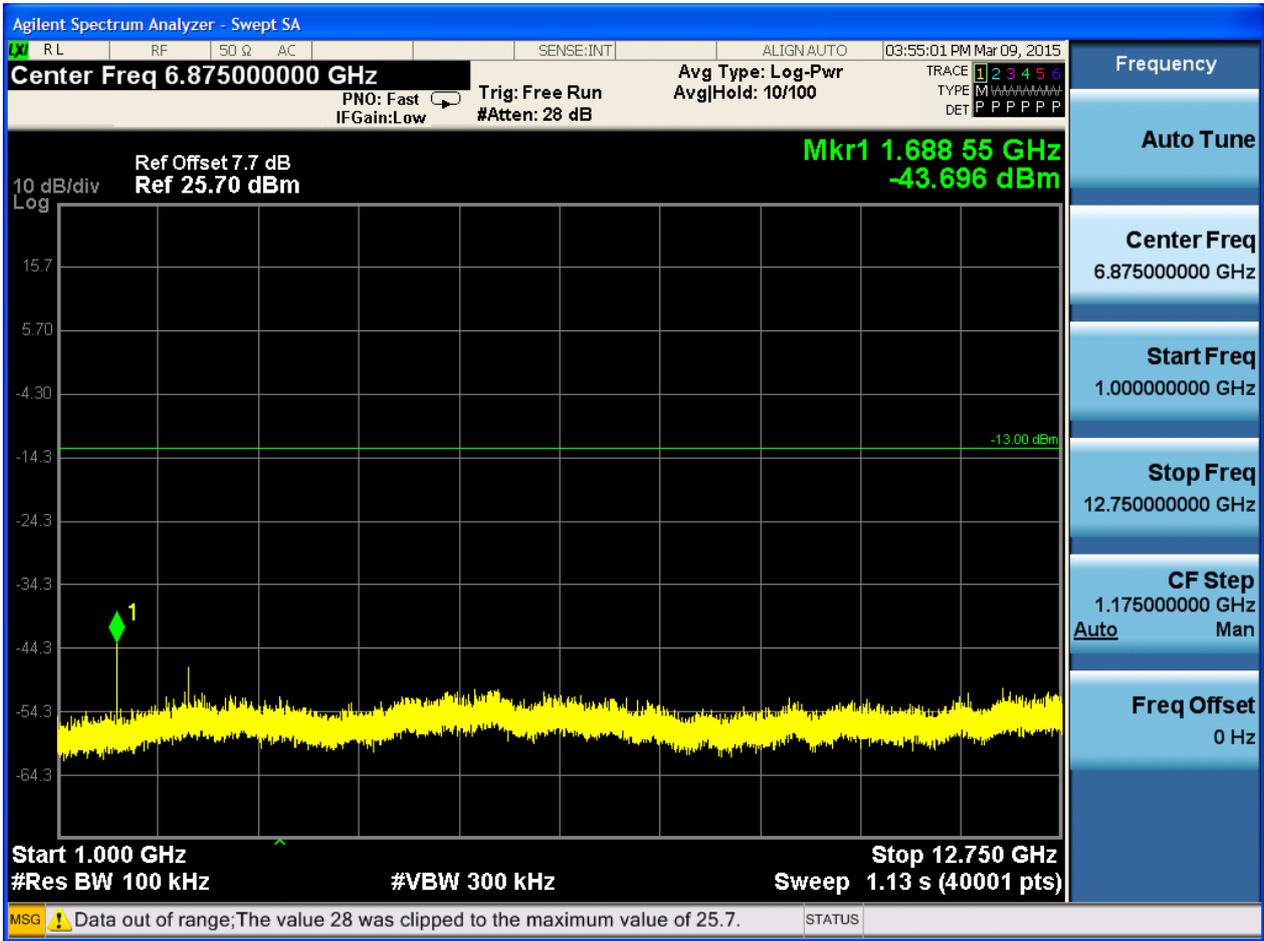
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







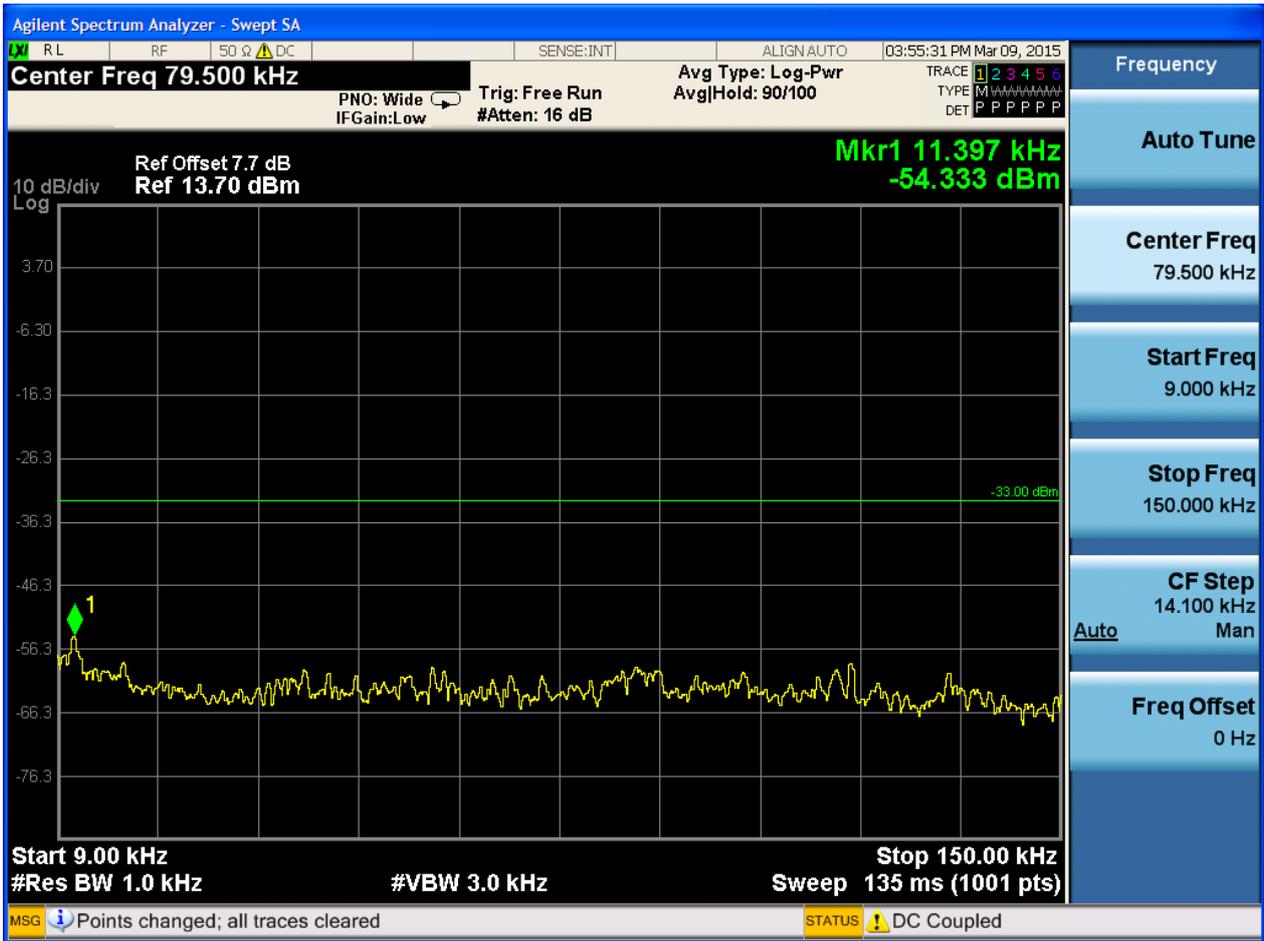




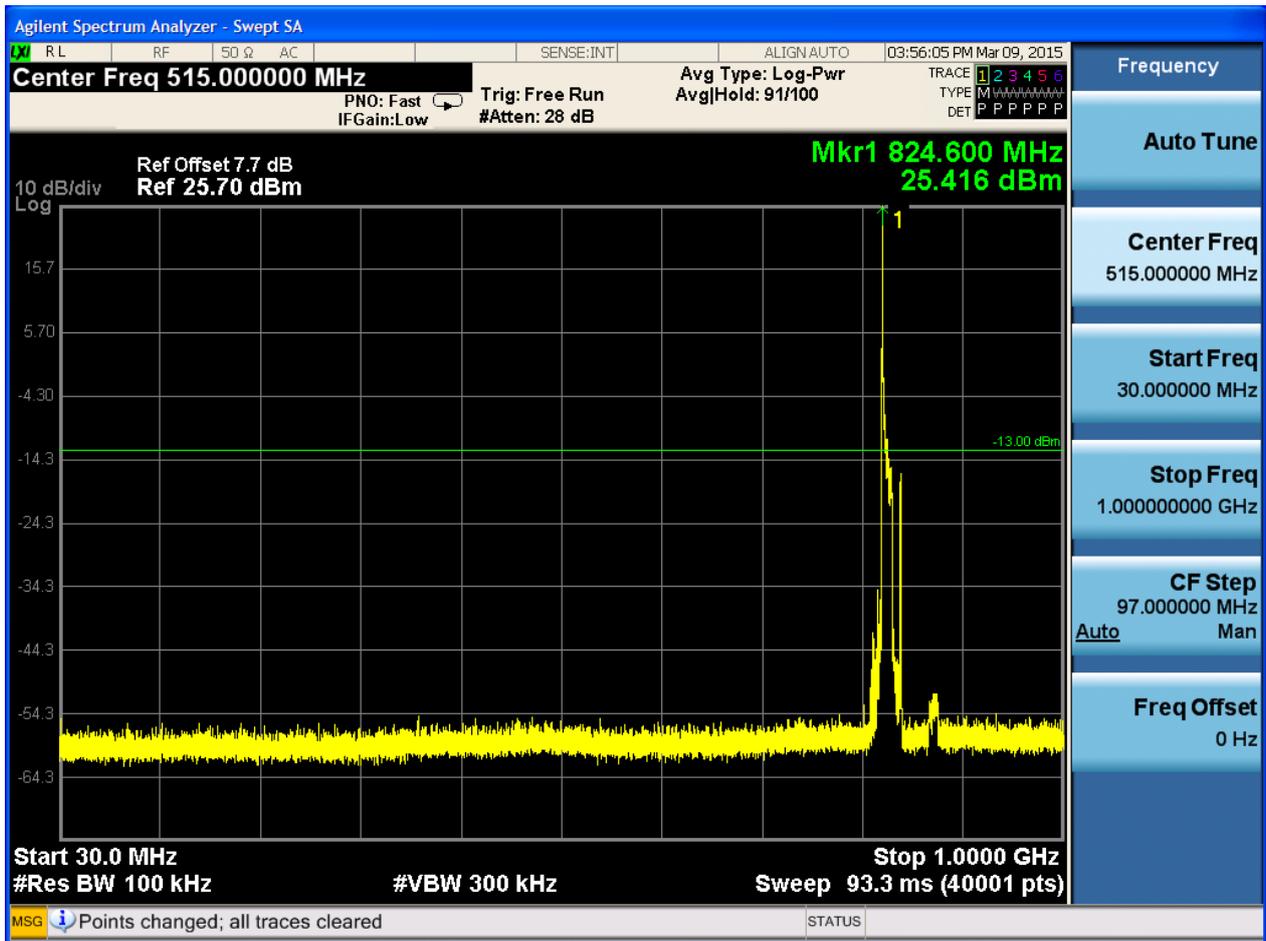
6.1.1.1.4 Test Bandwidth = 10

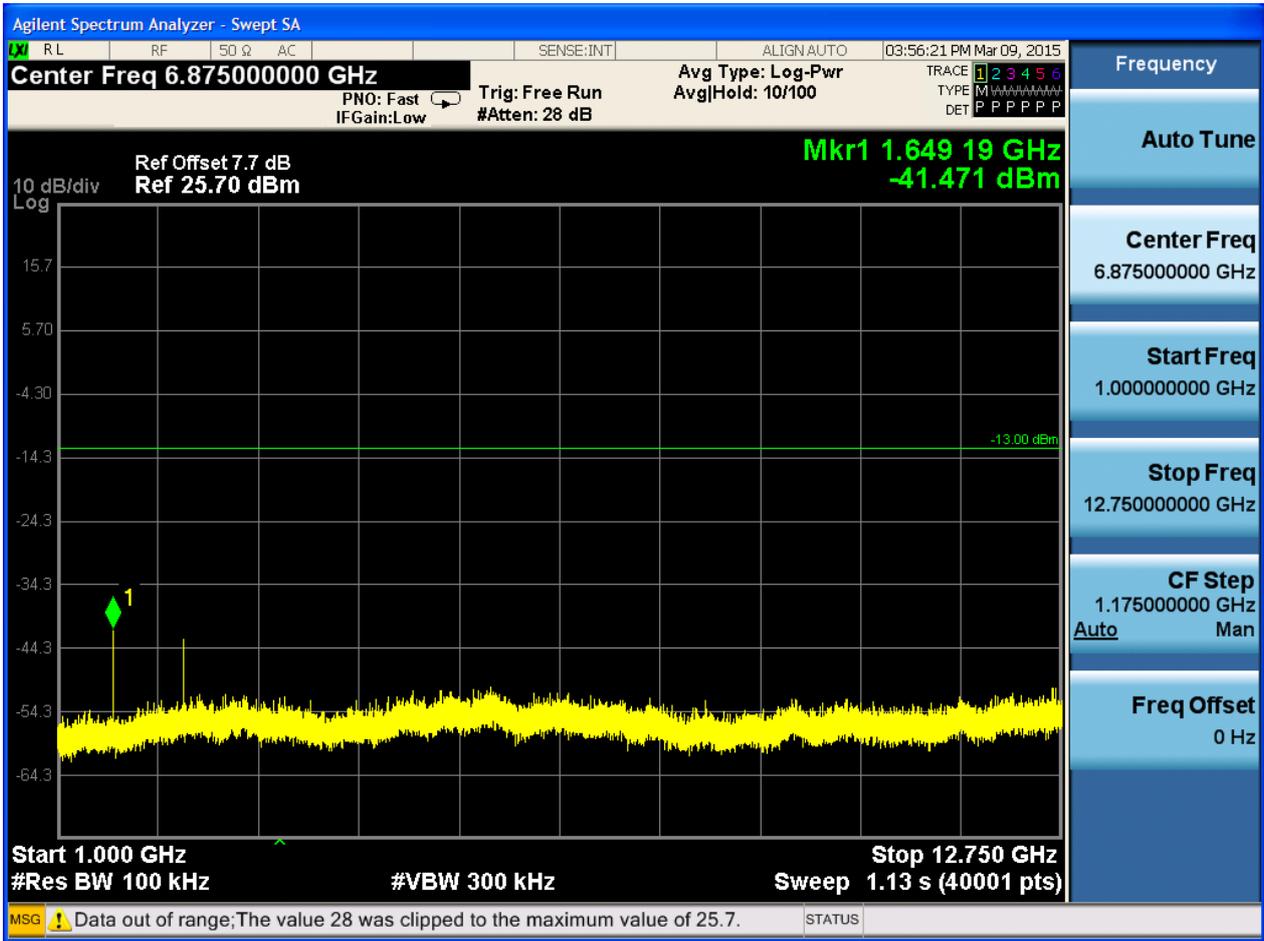
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



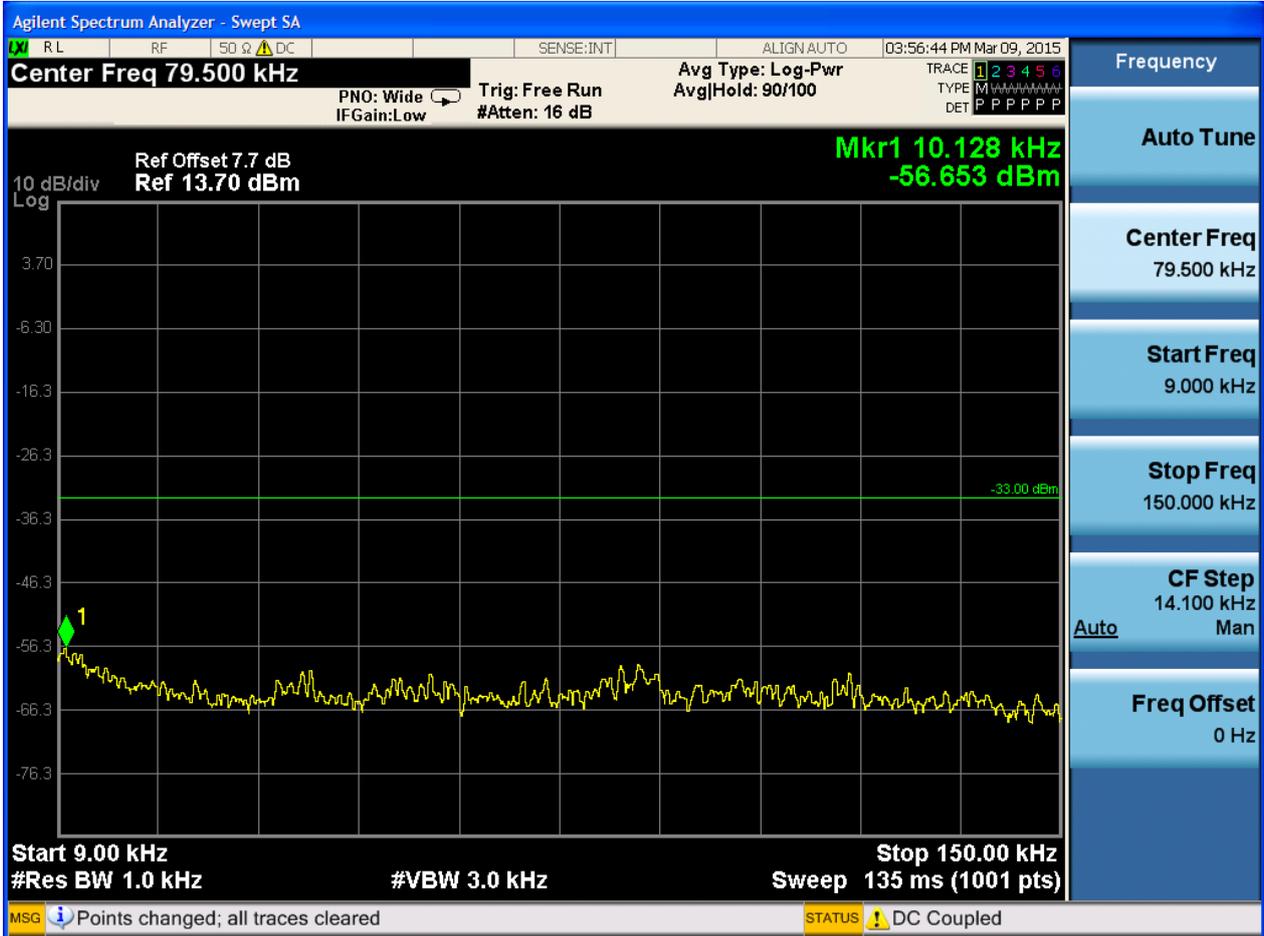


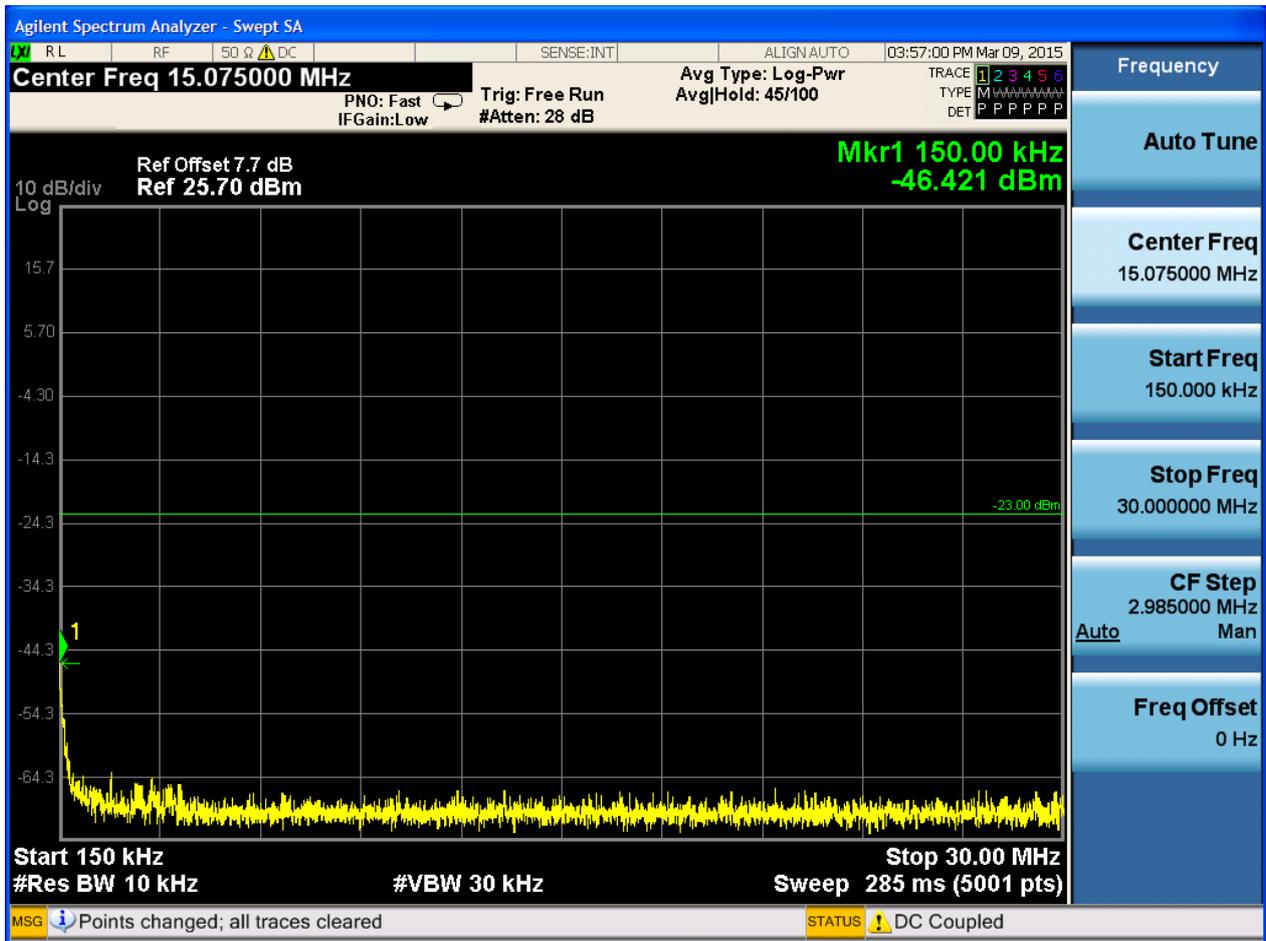


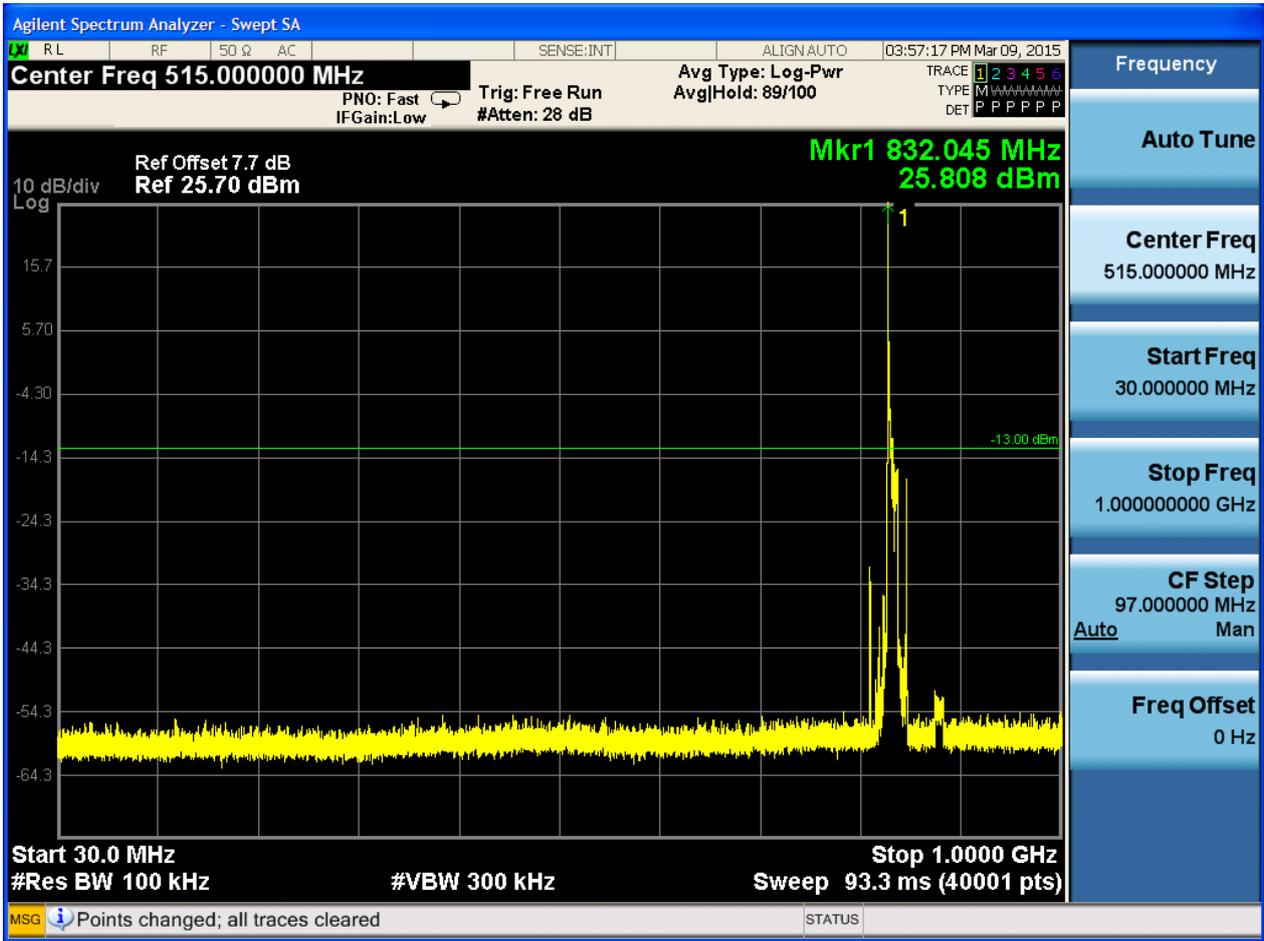


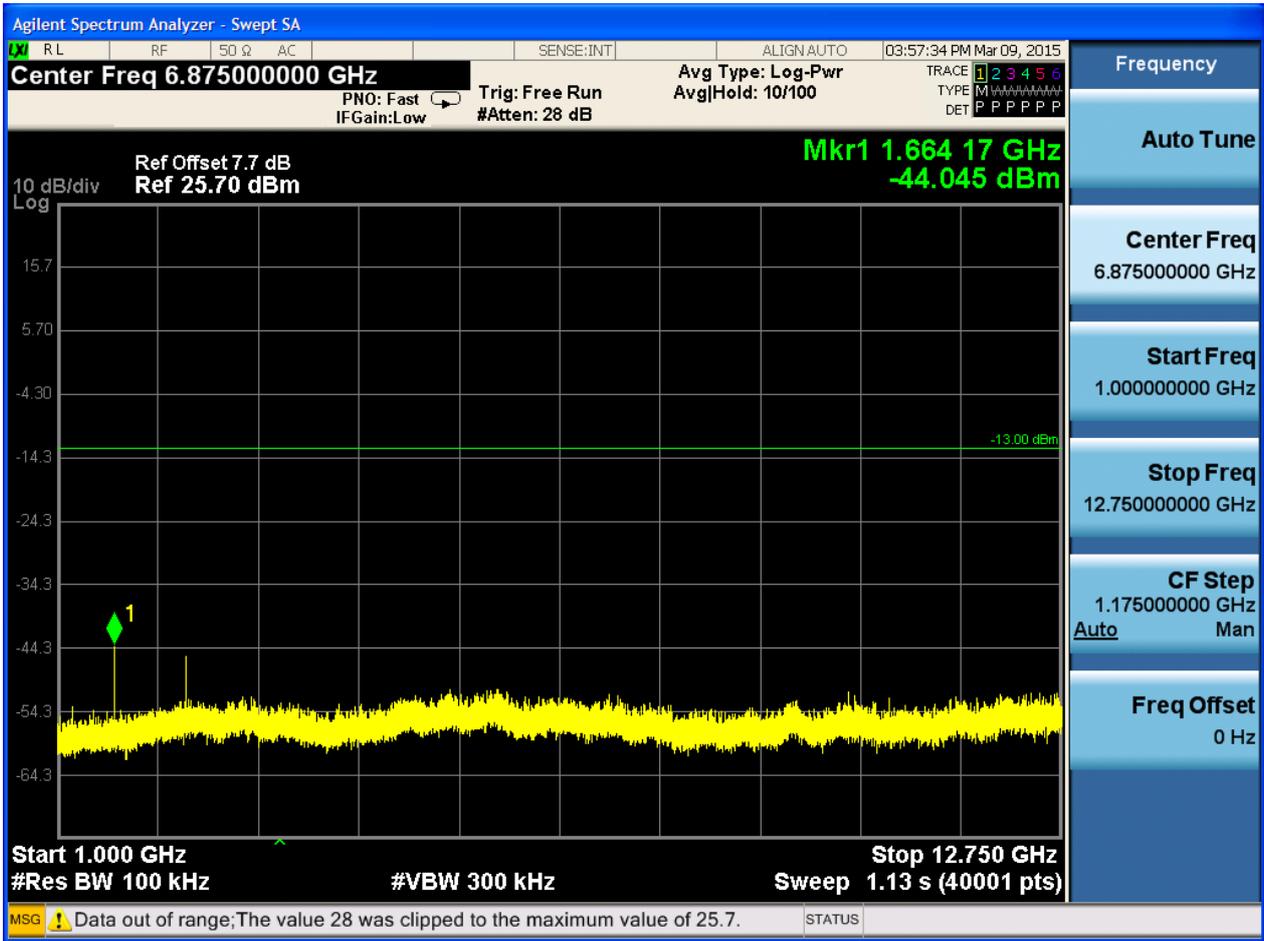
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



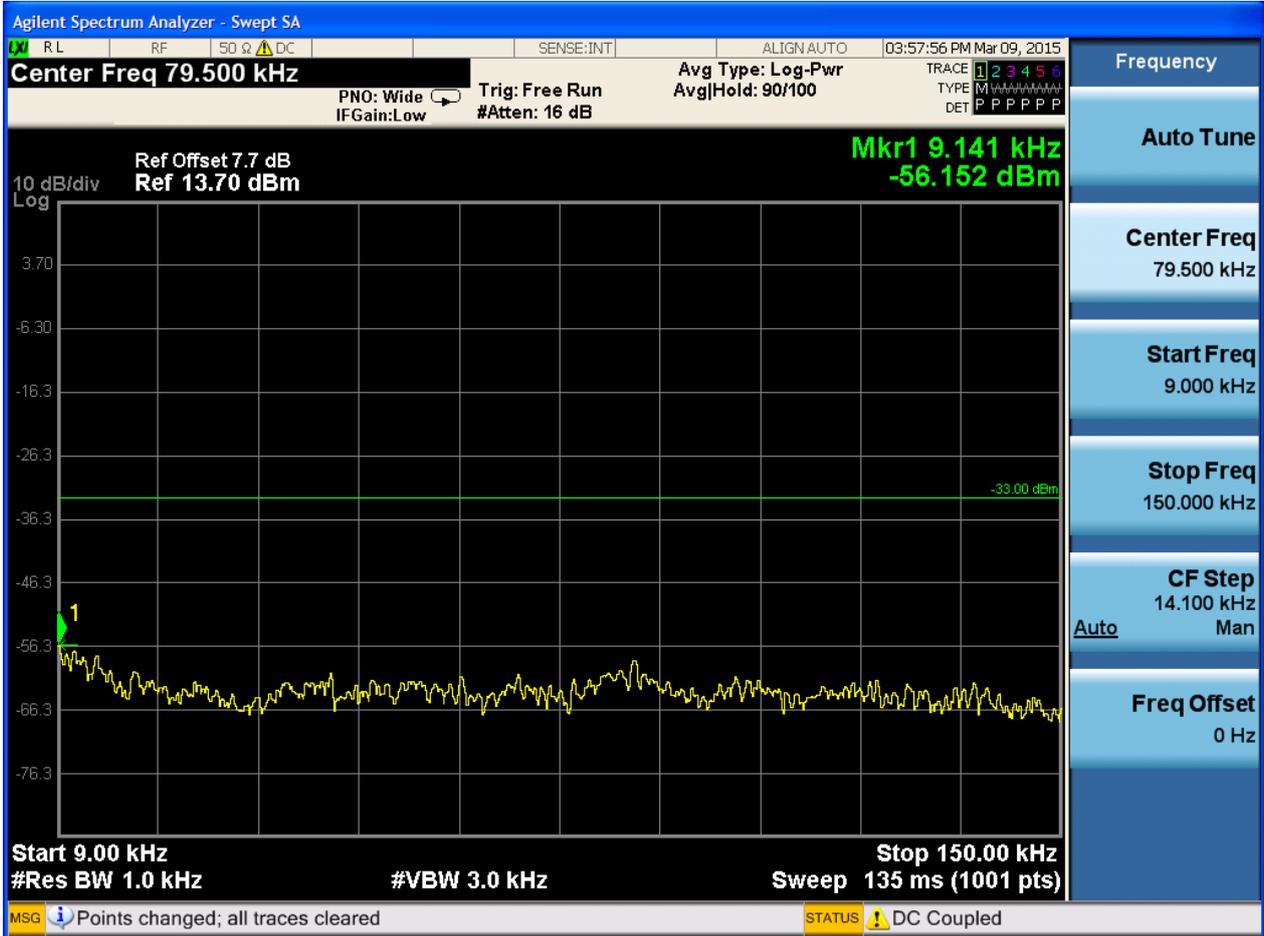




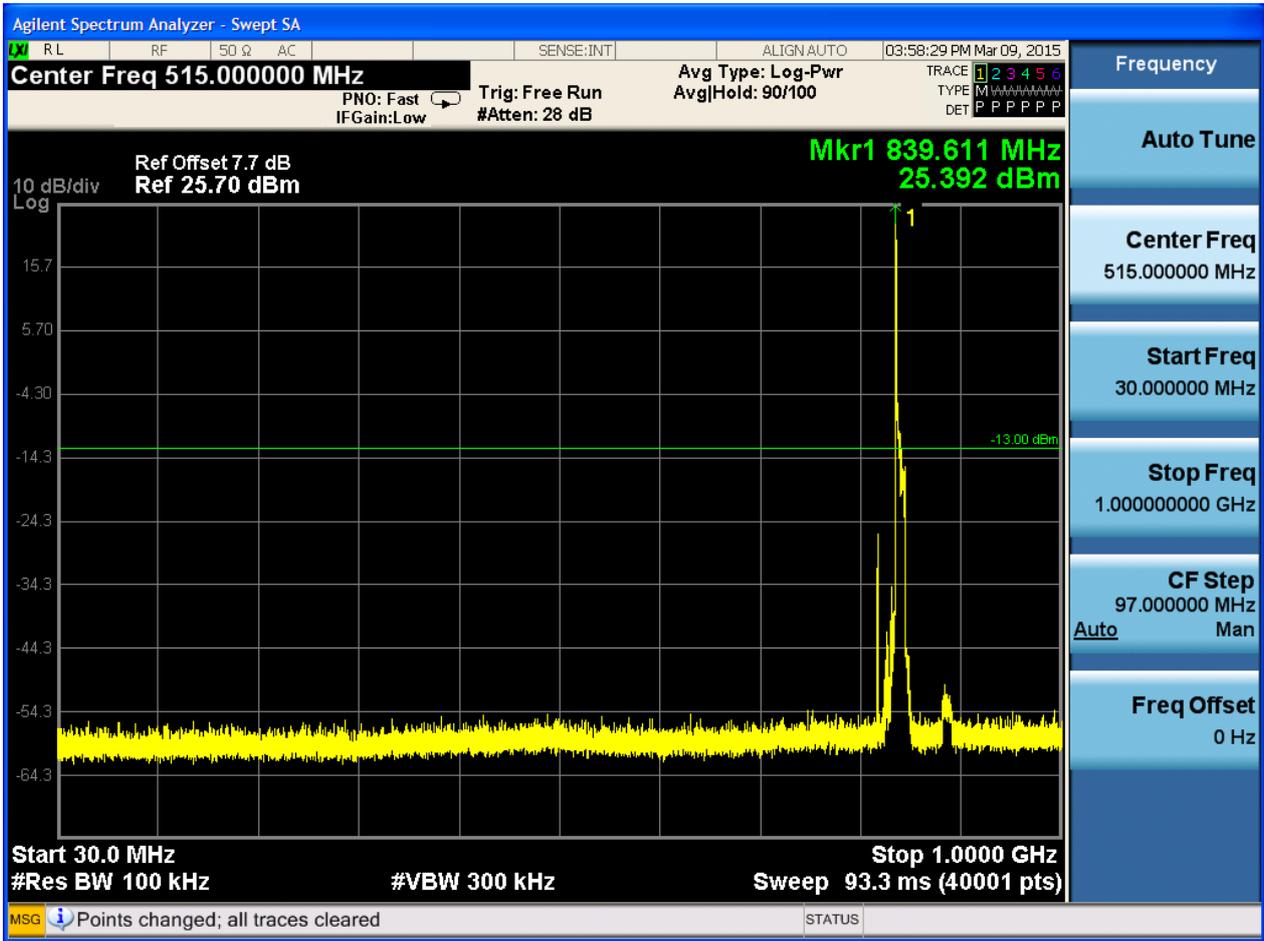


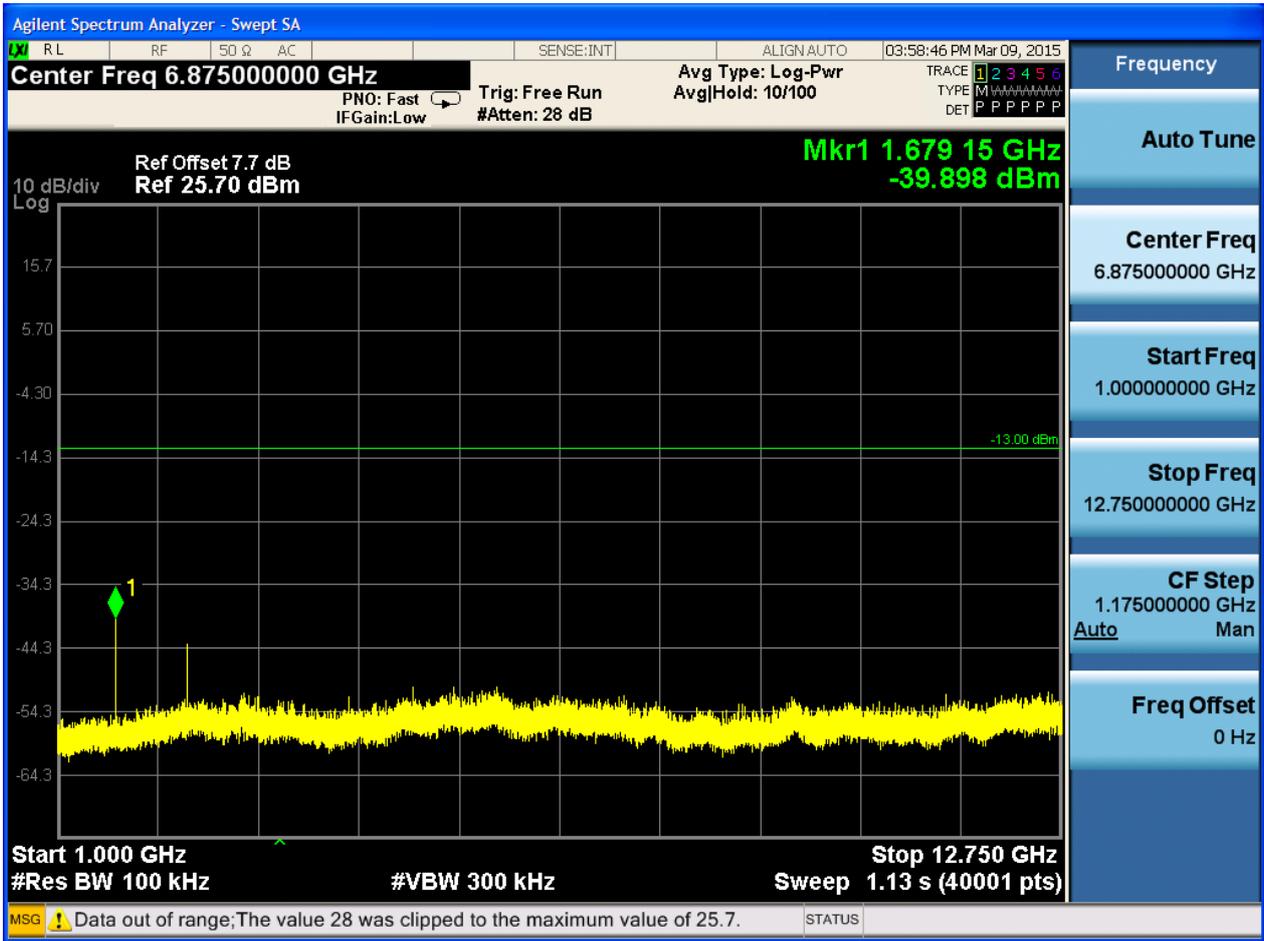
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









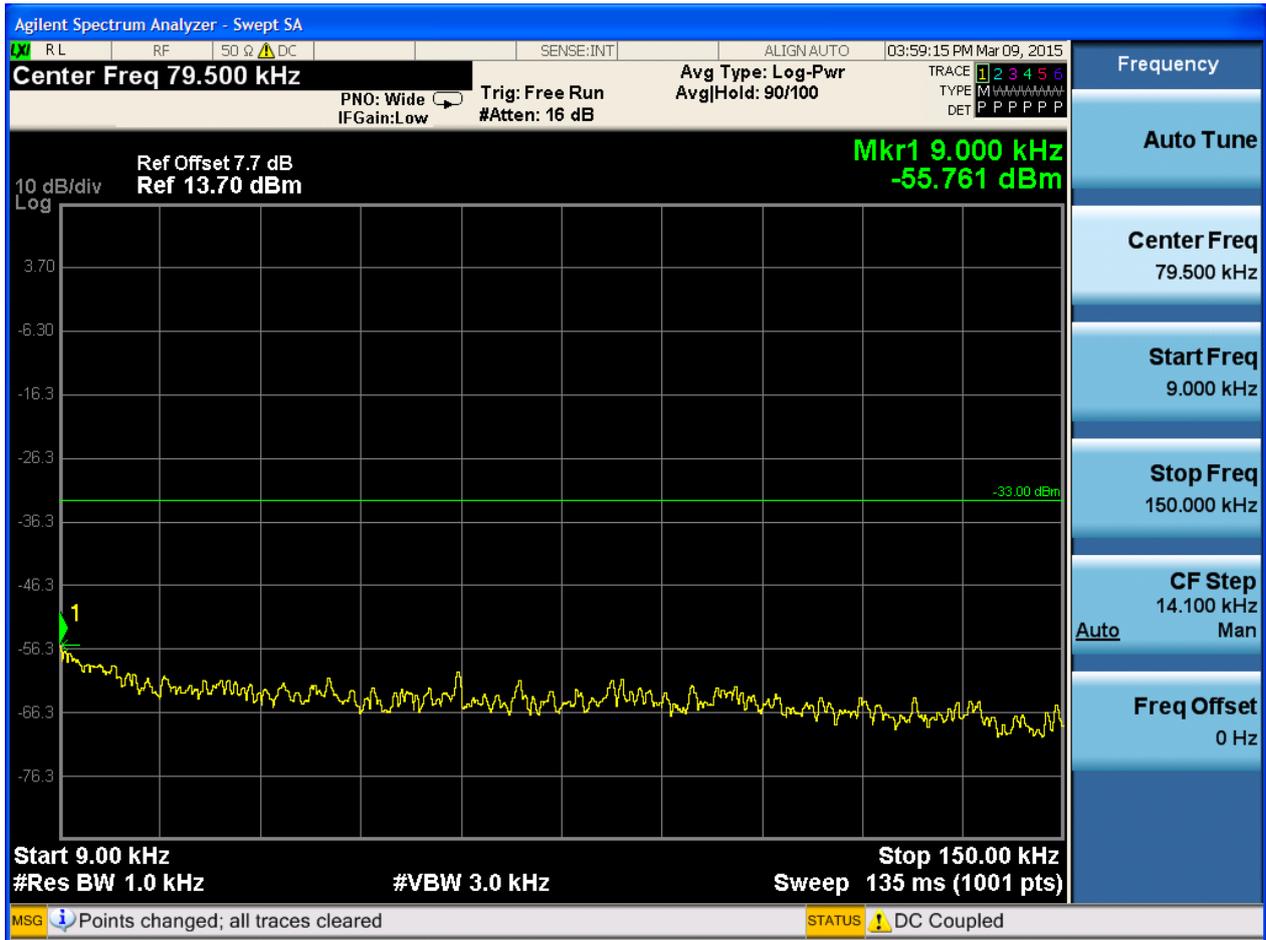


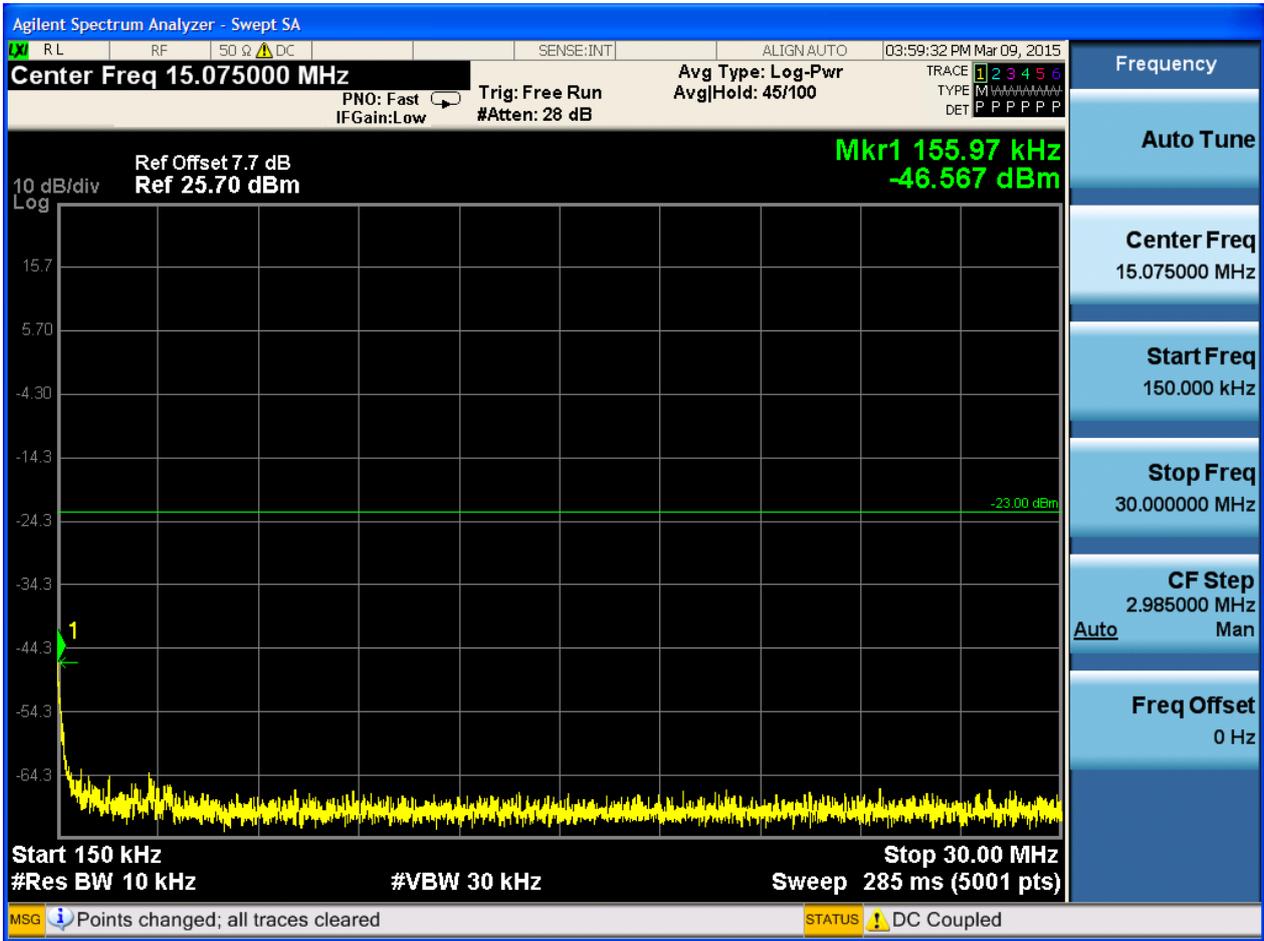
6.1.1.2 Test Mode = LTE/TM2

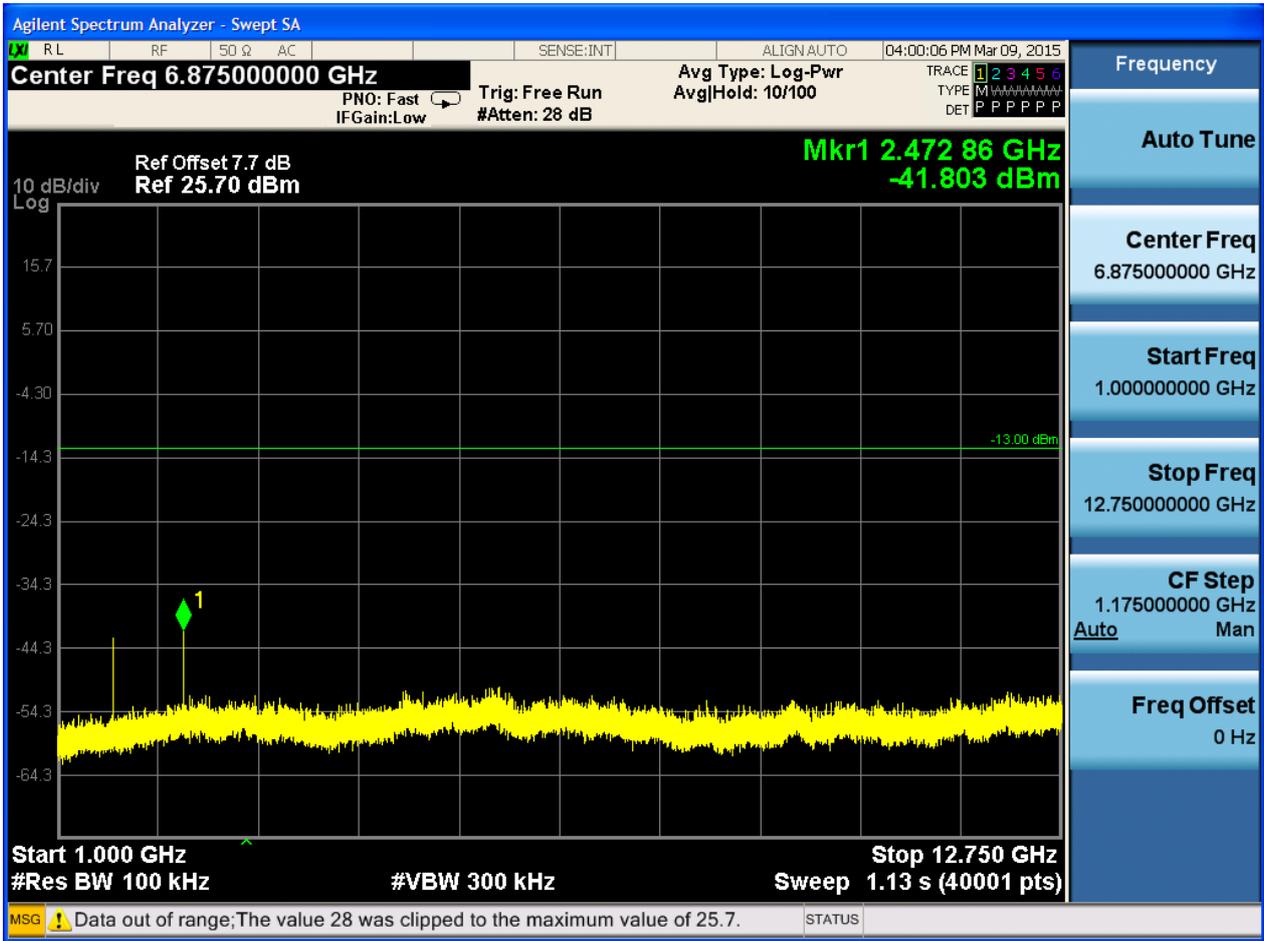
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

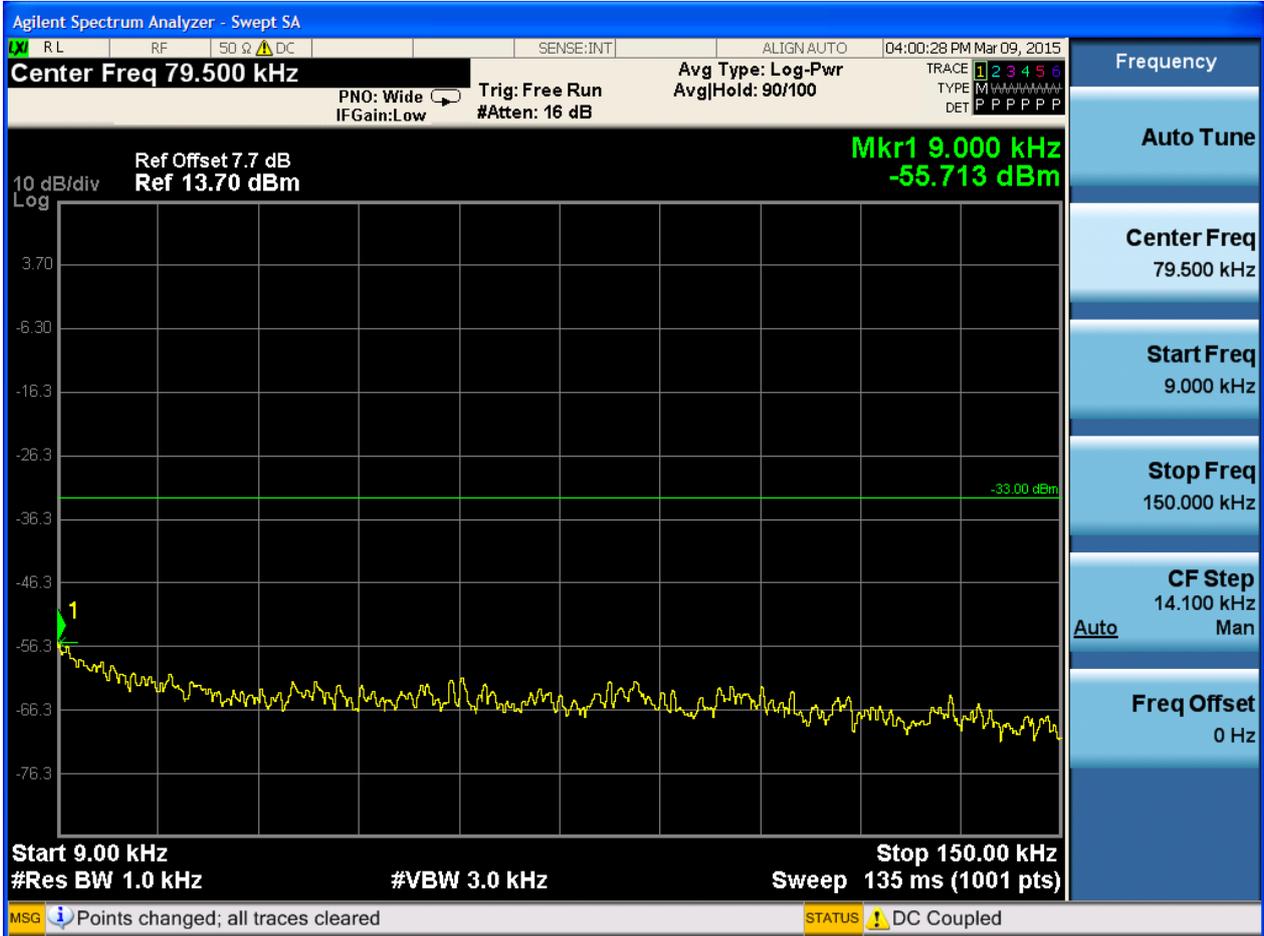


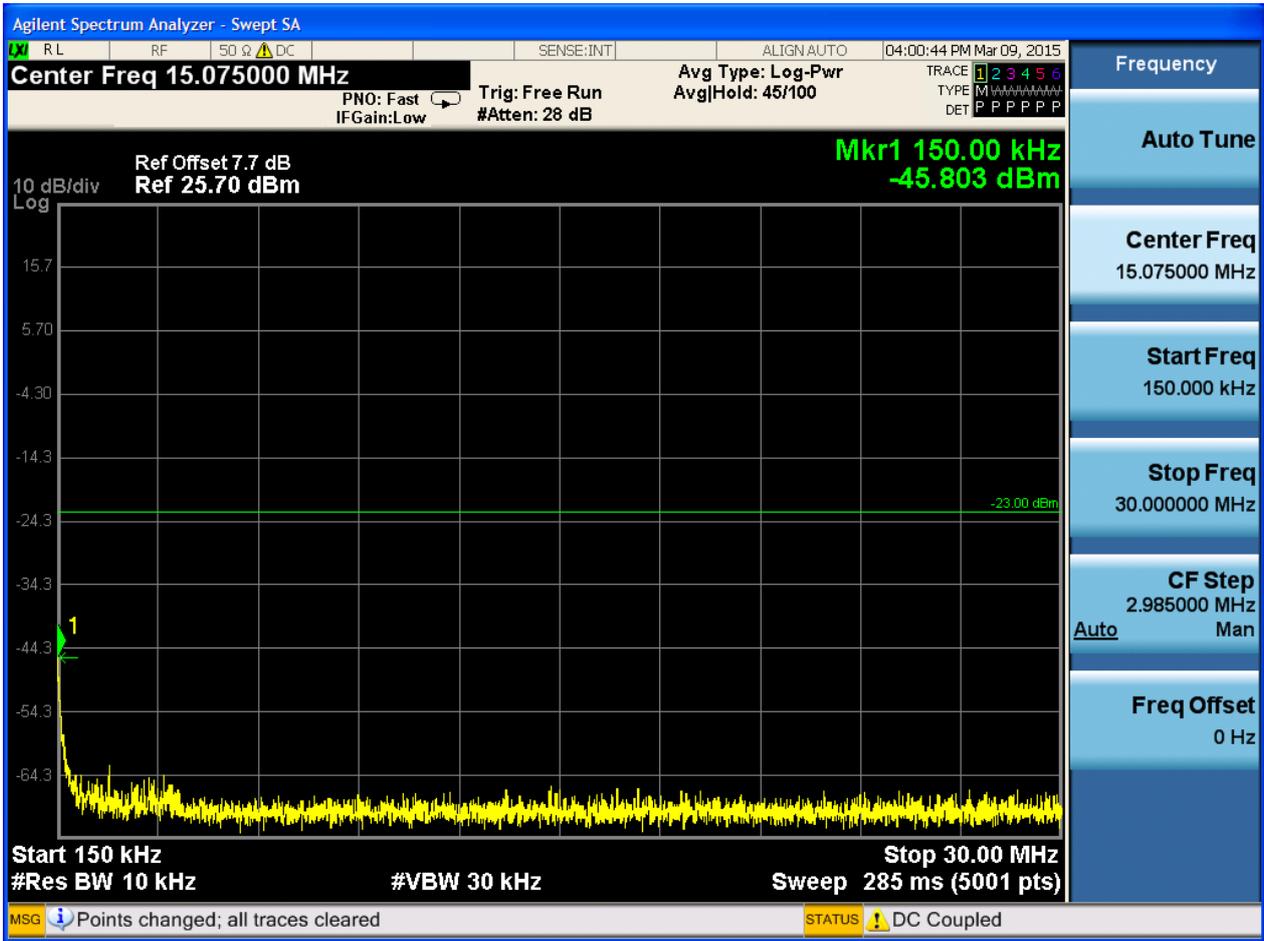


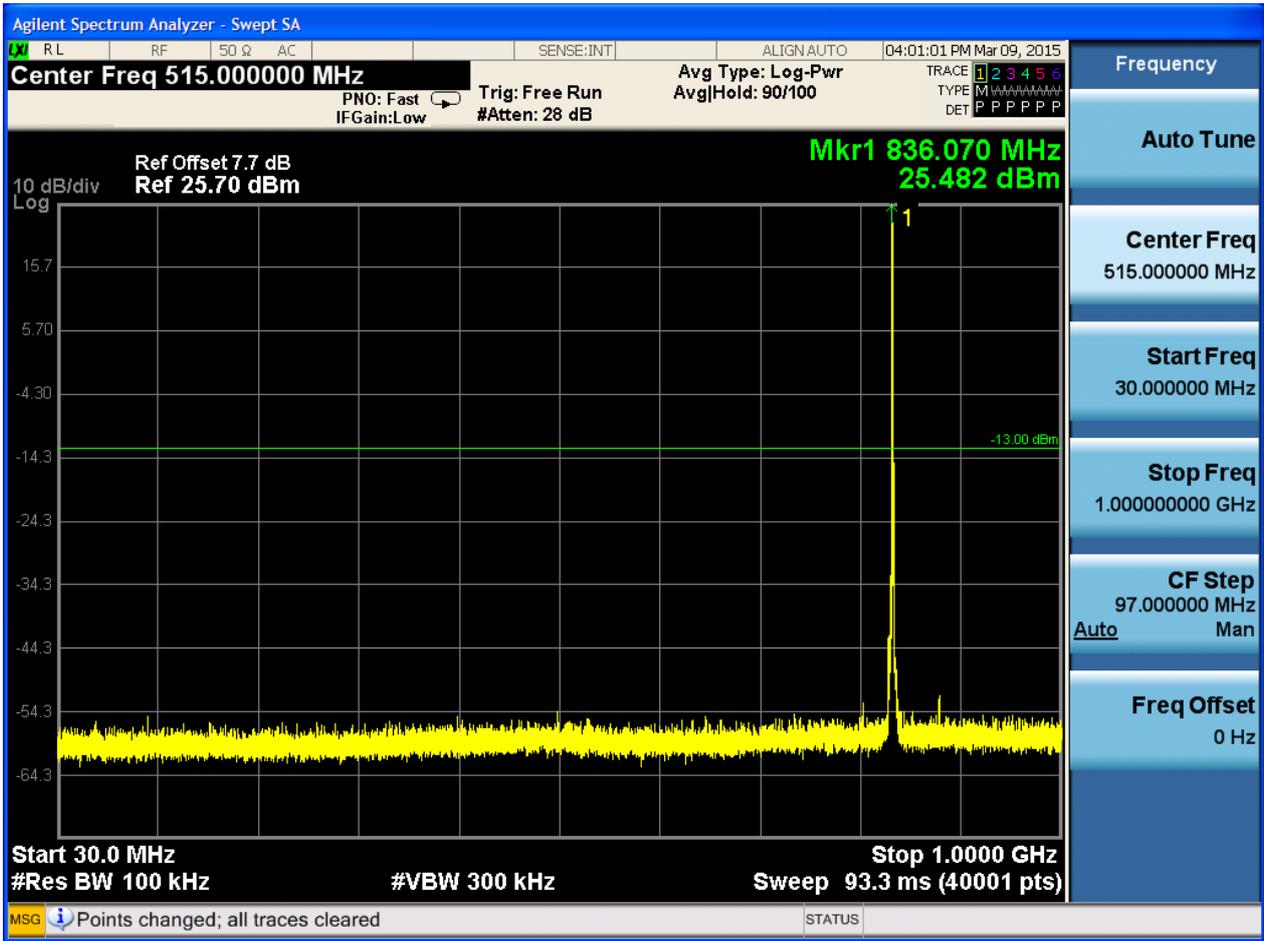


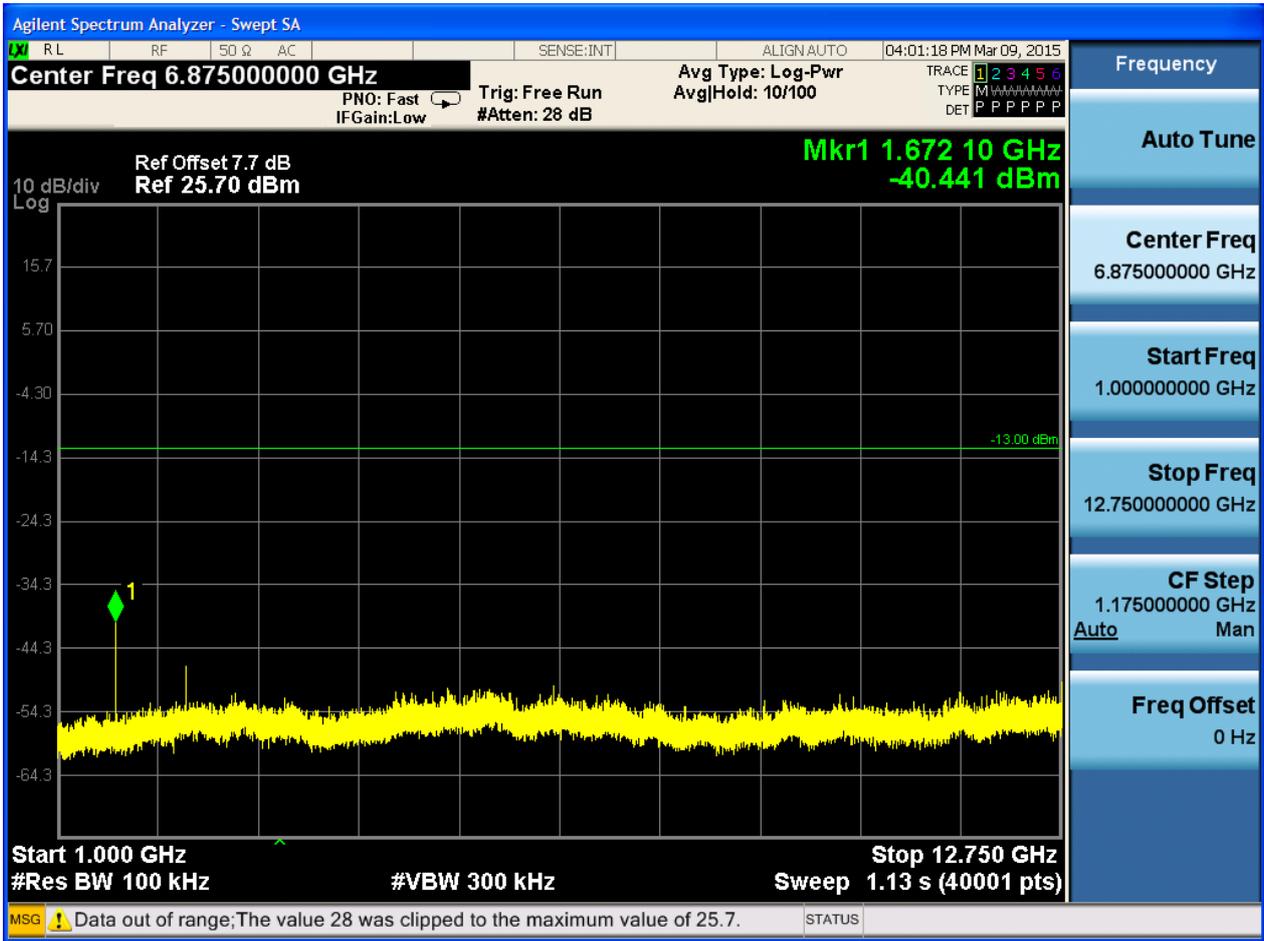
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



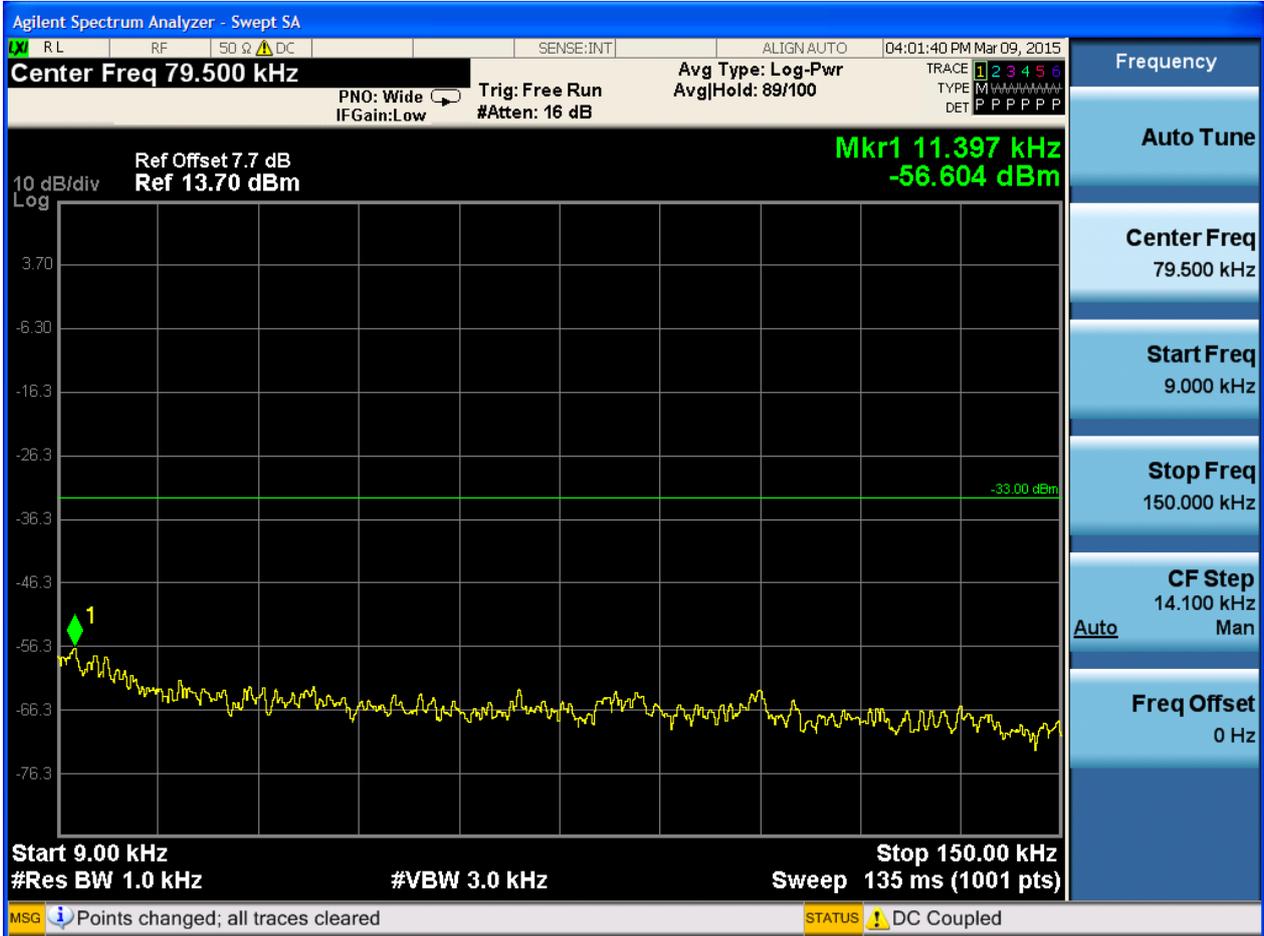




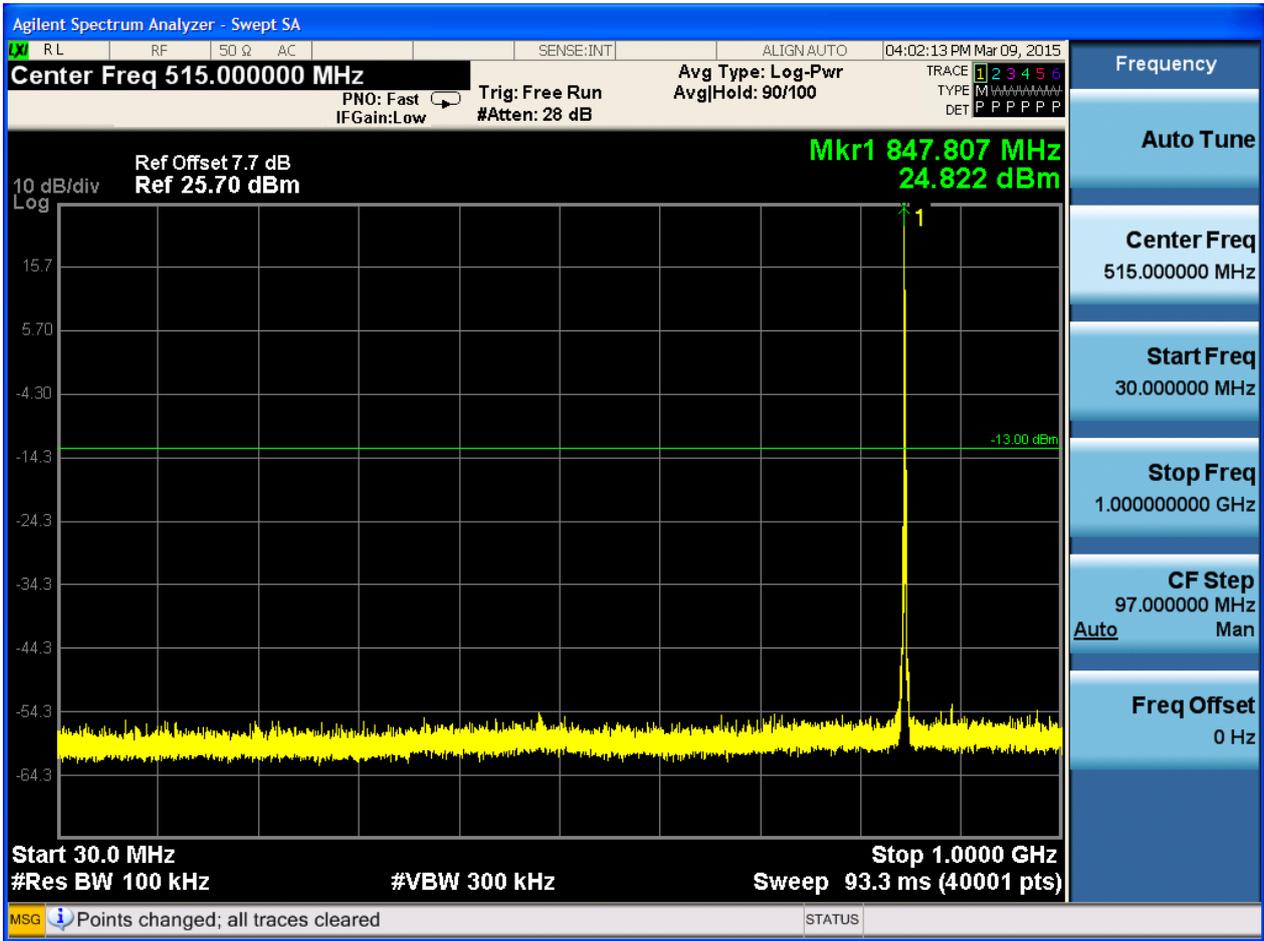


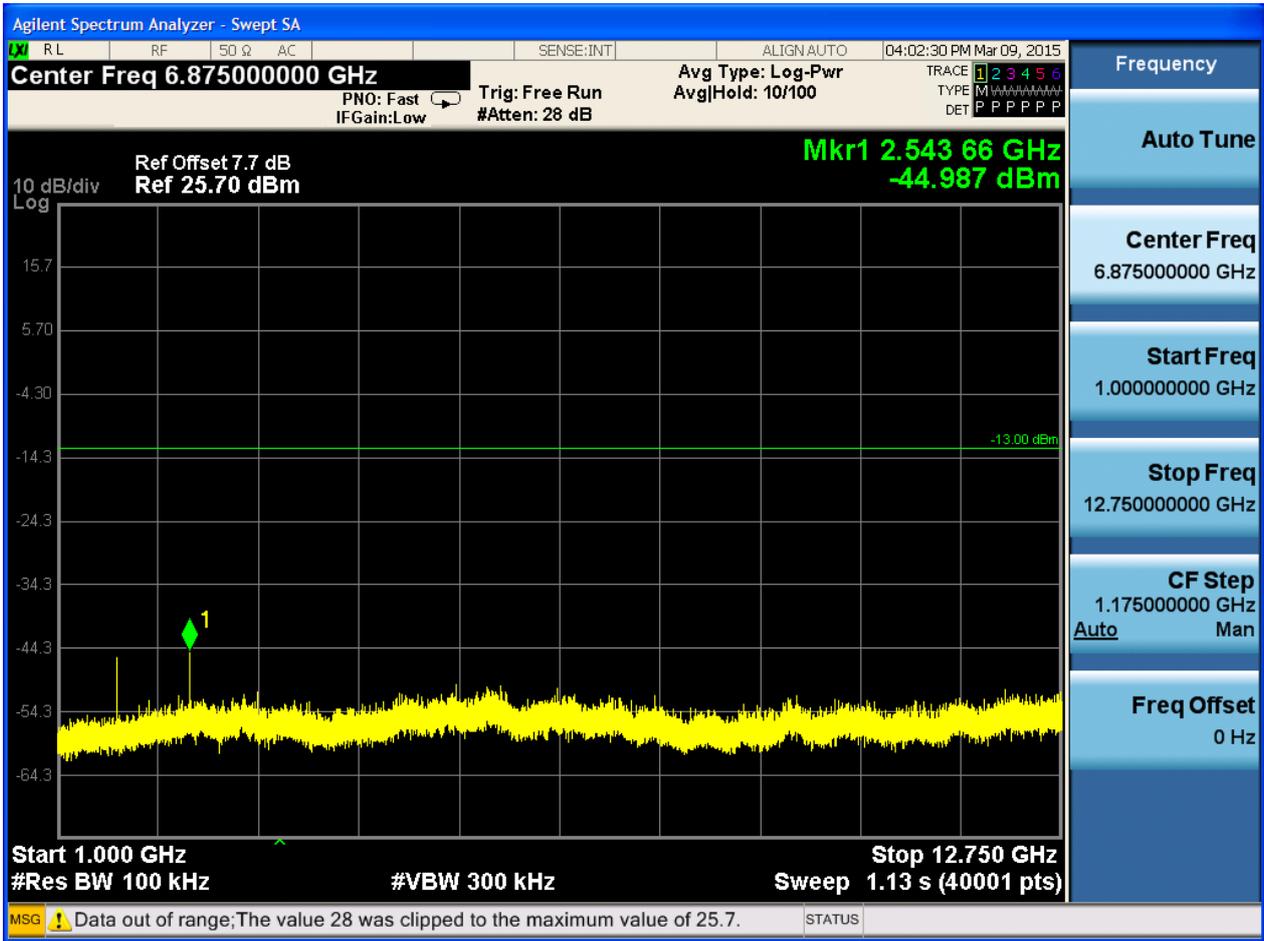
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0











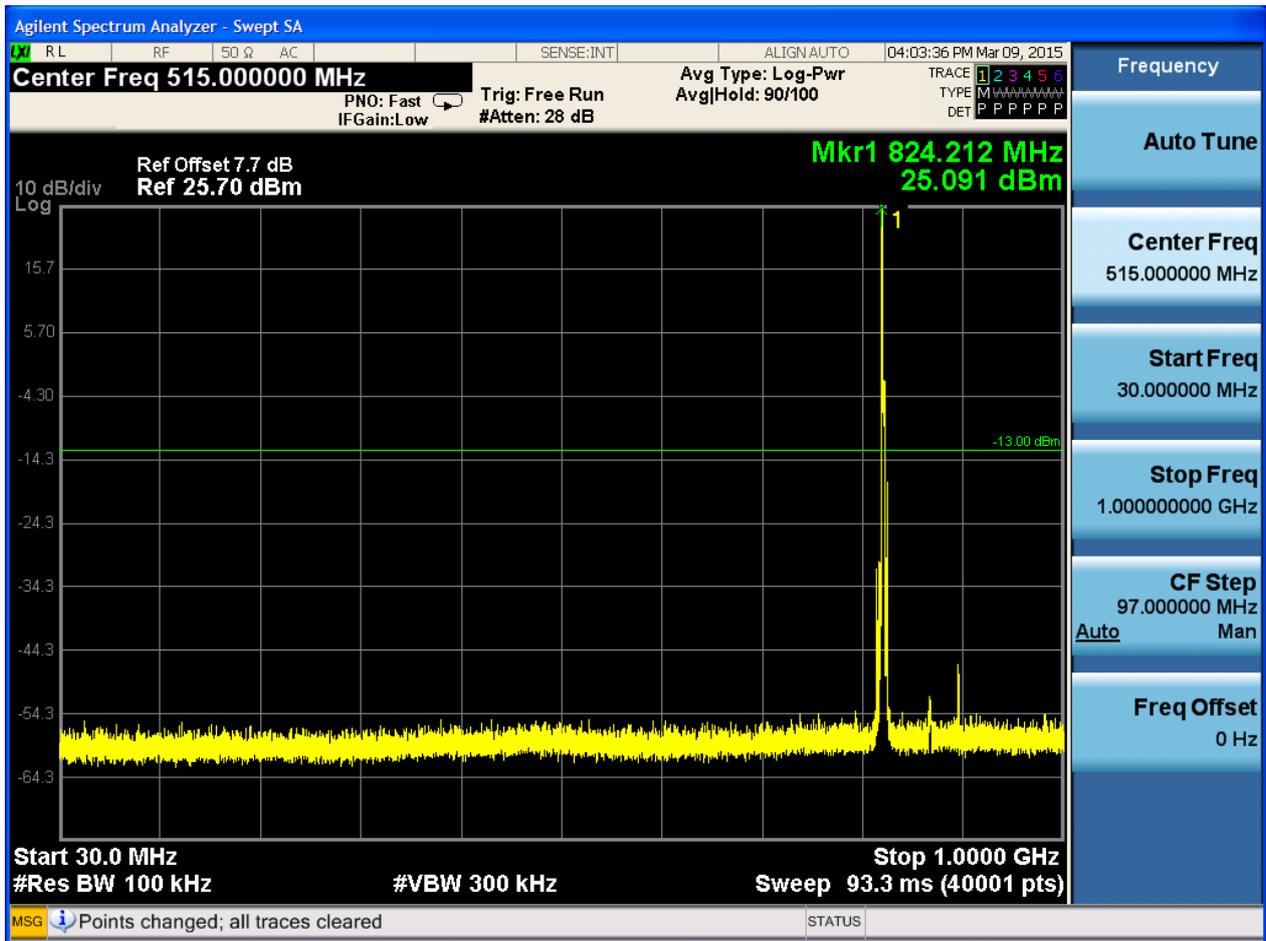
6.1.1.2.2 Test Bandwidth = 3

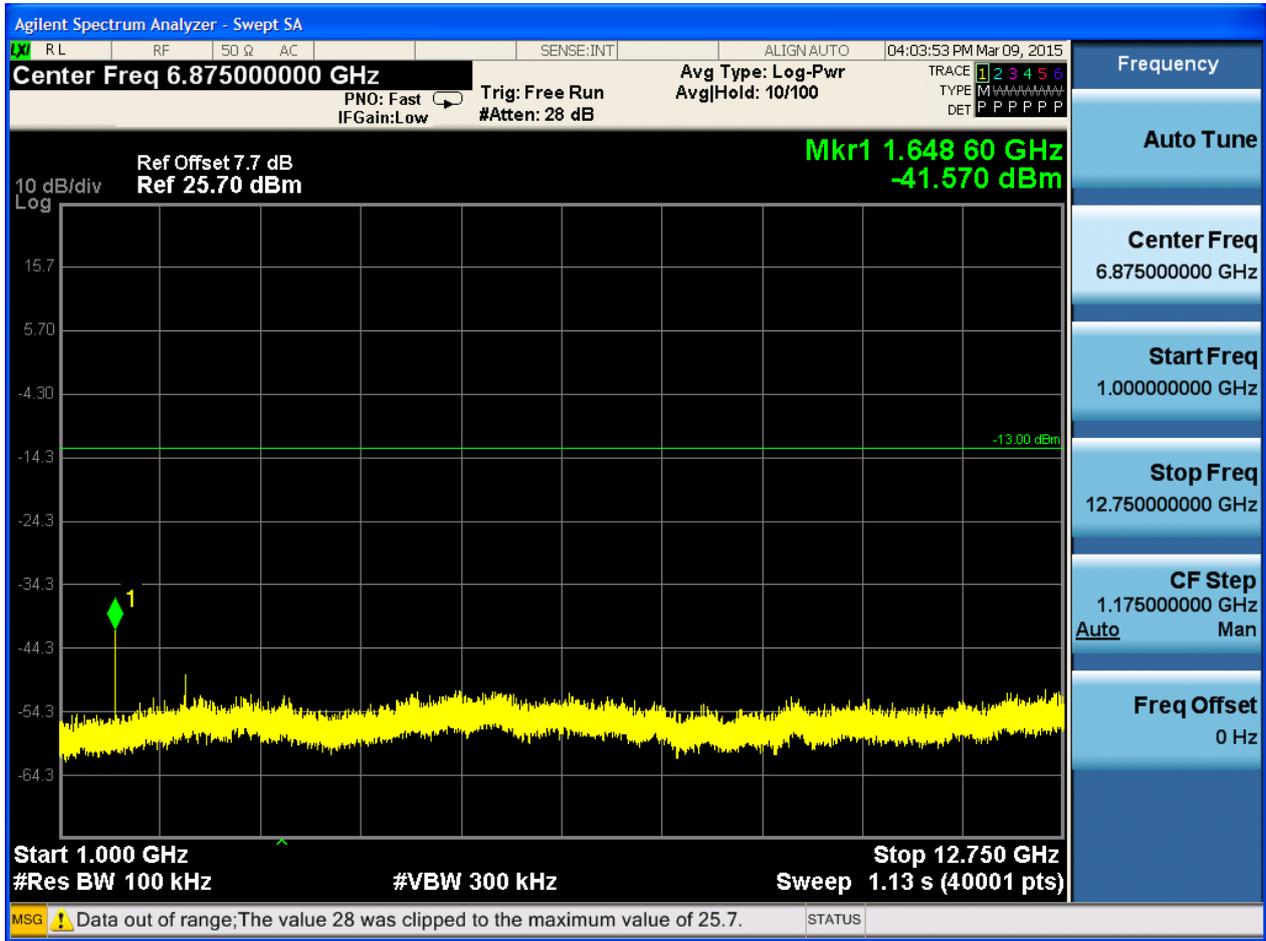
6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0





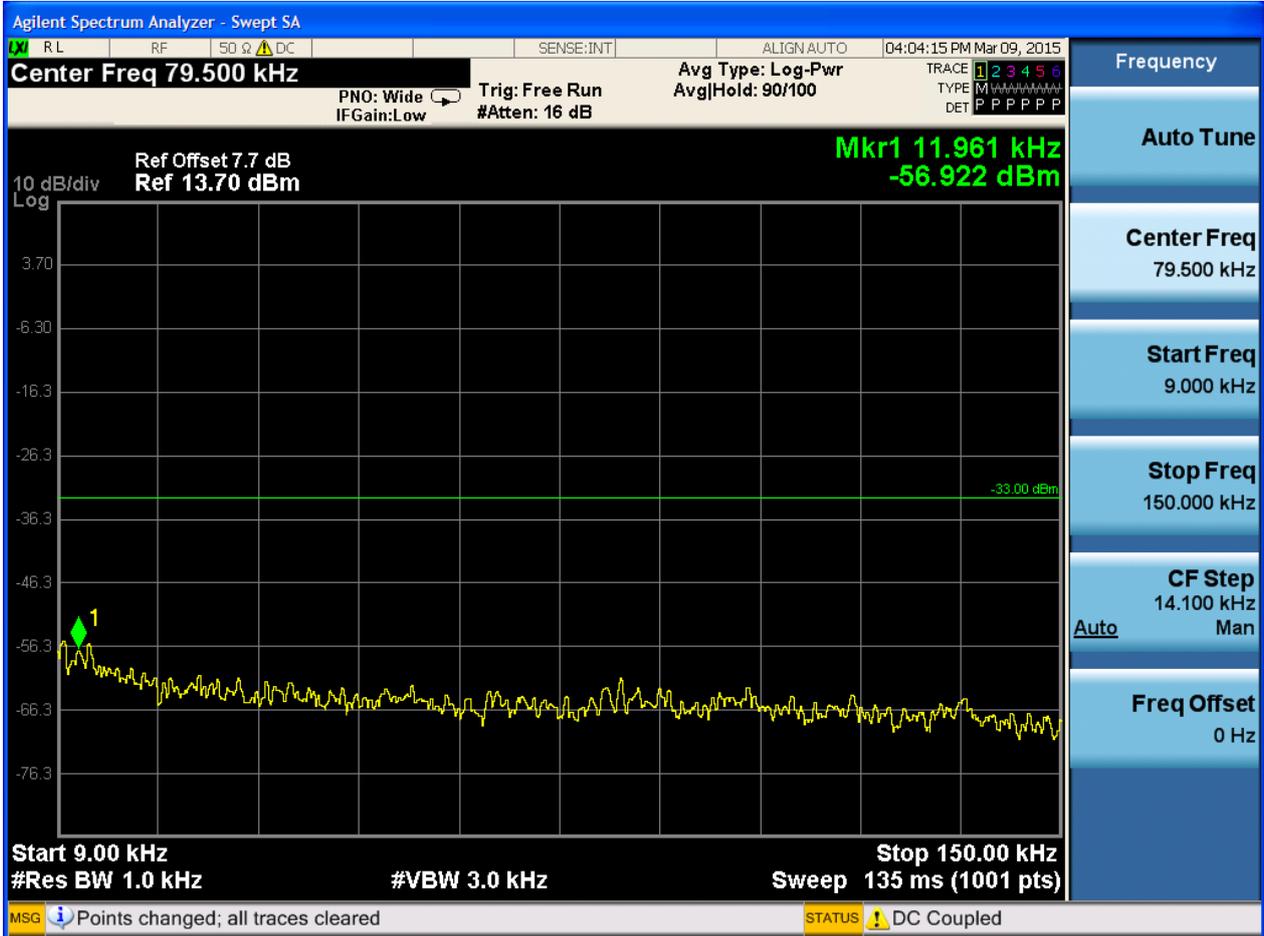




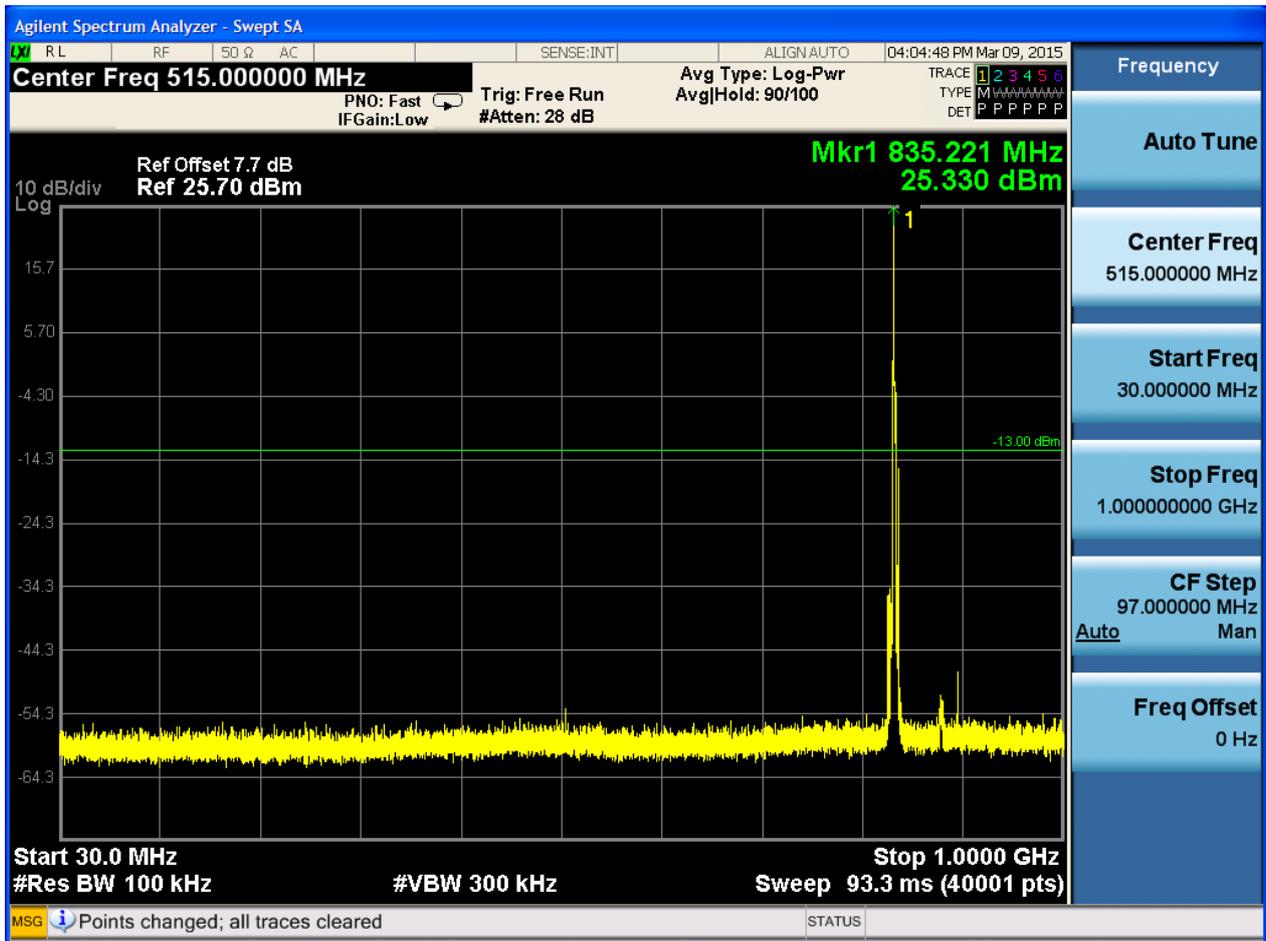


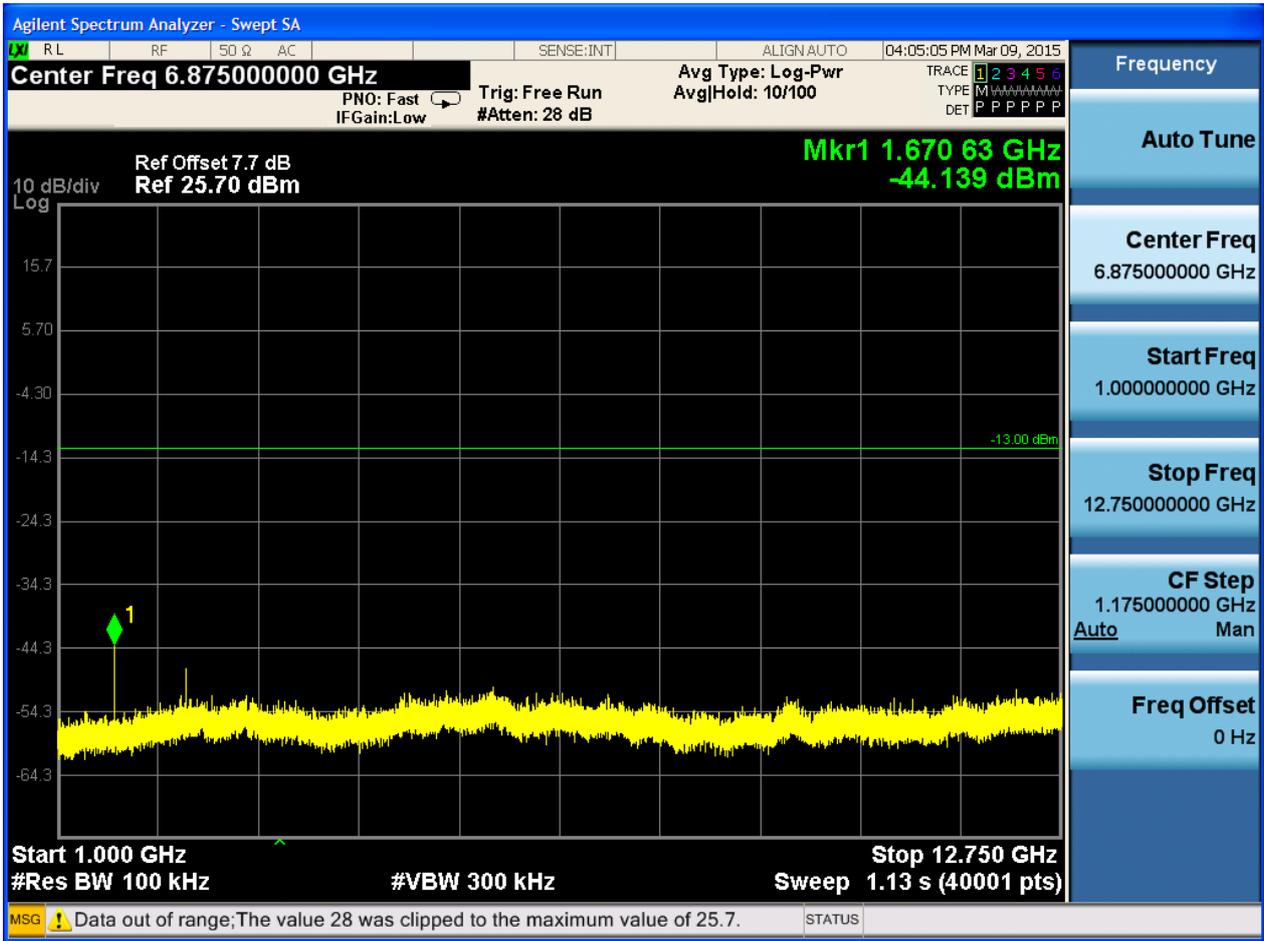
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



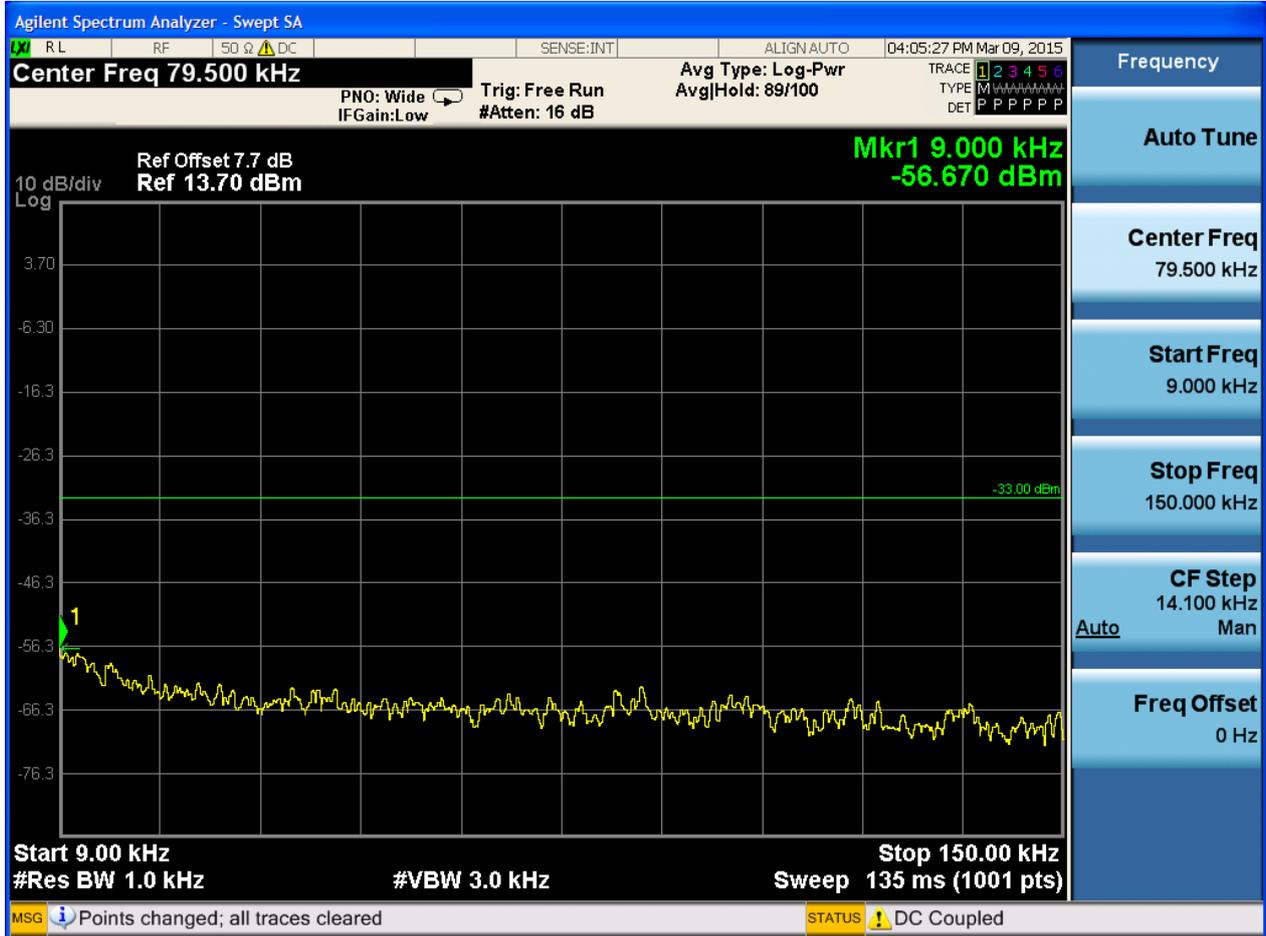


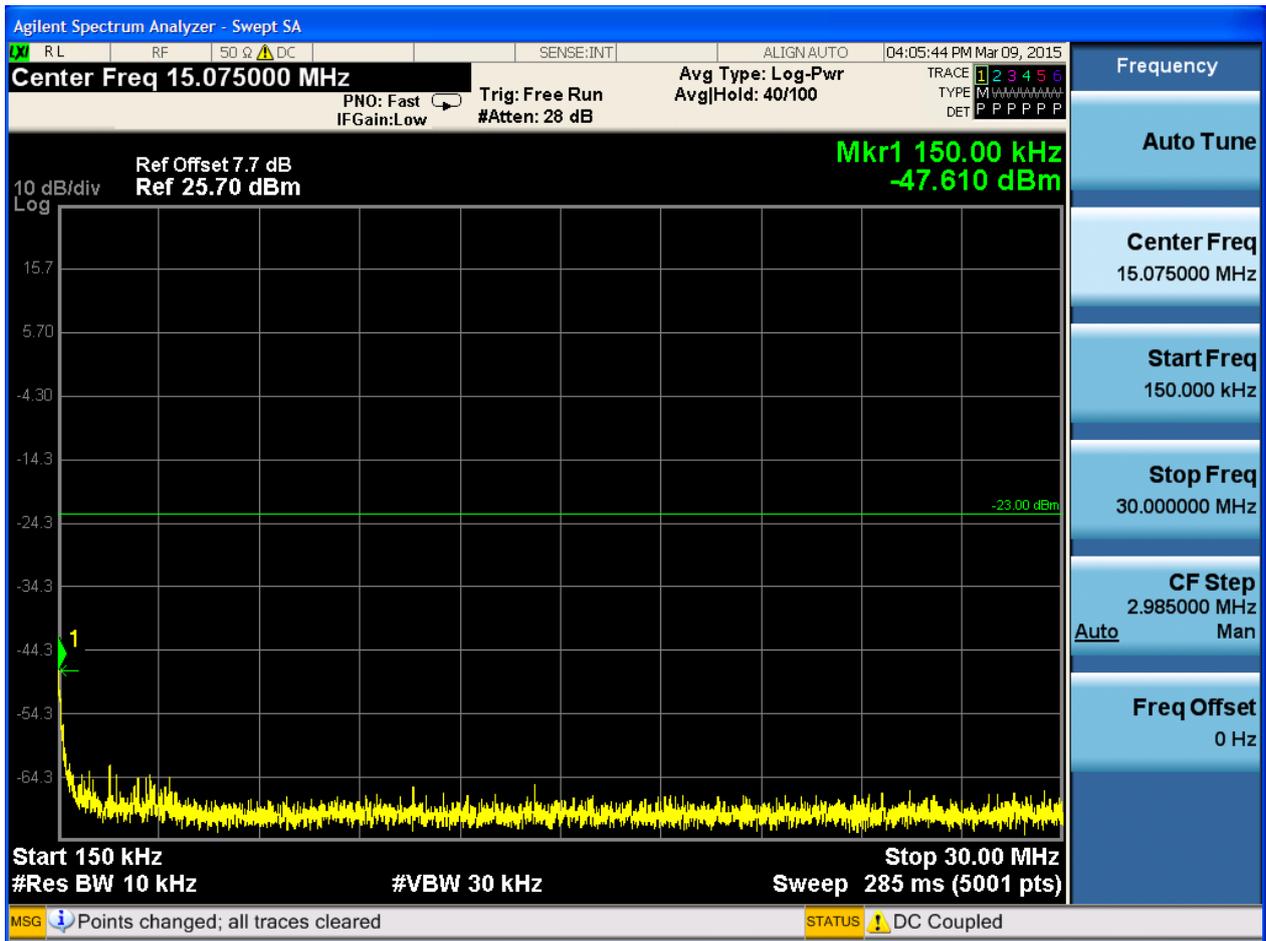


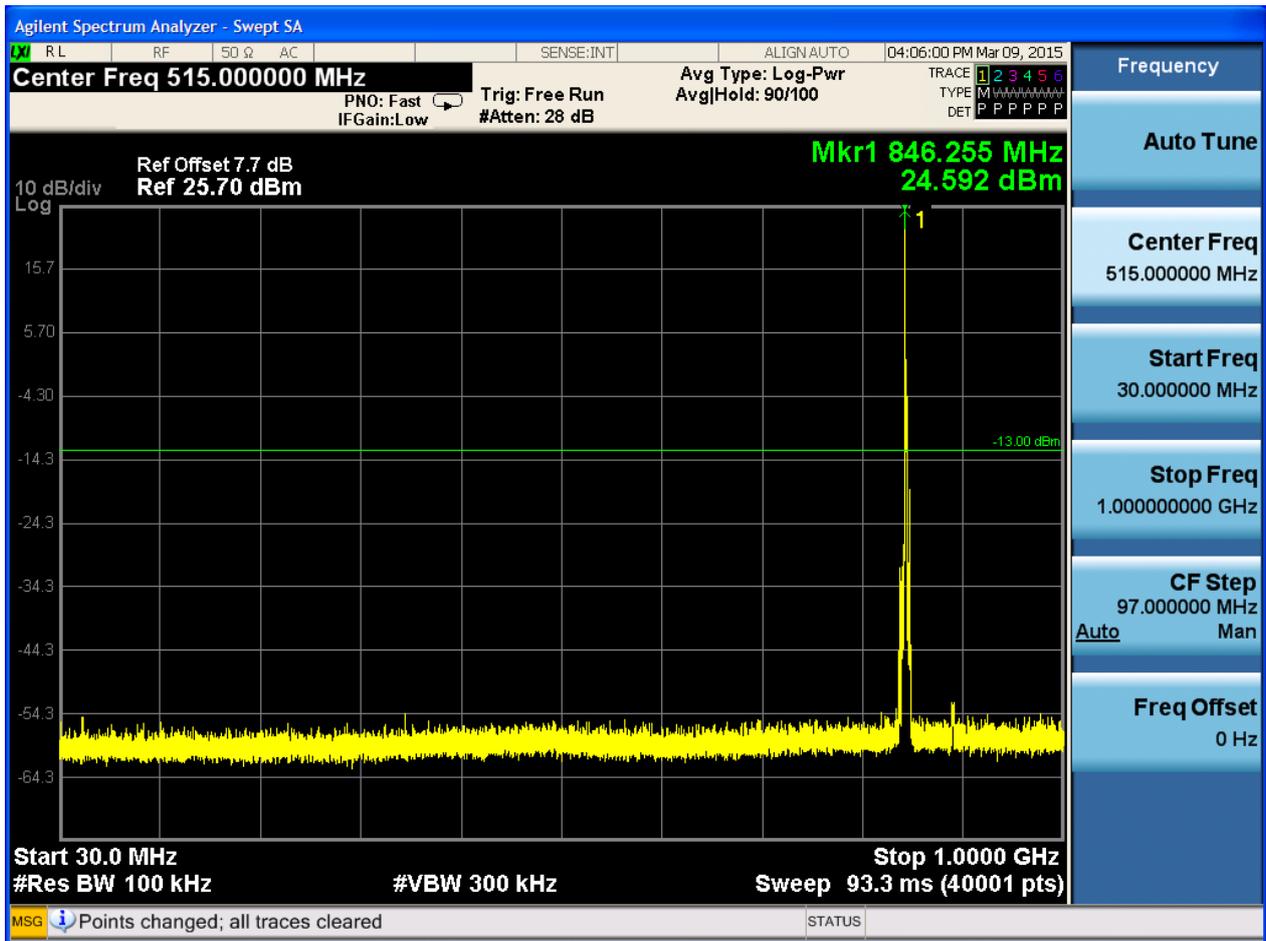


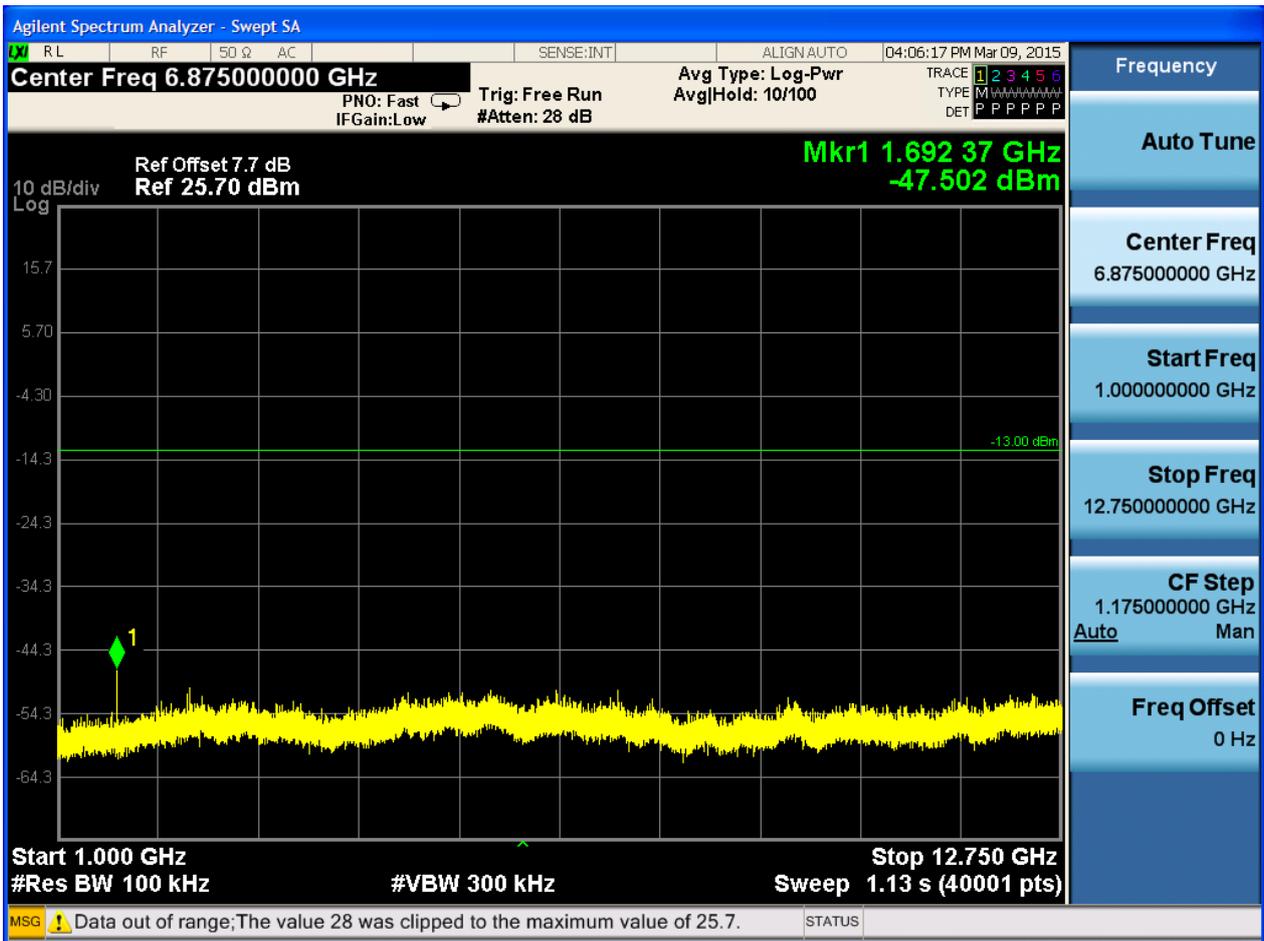
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0









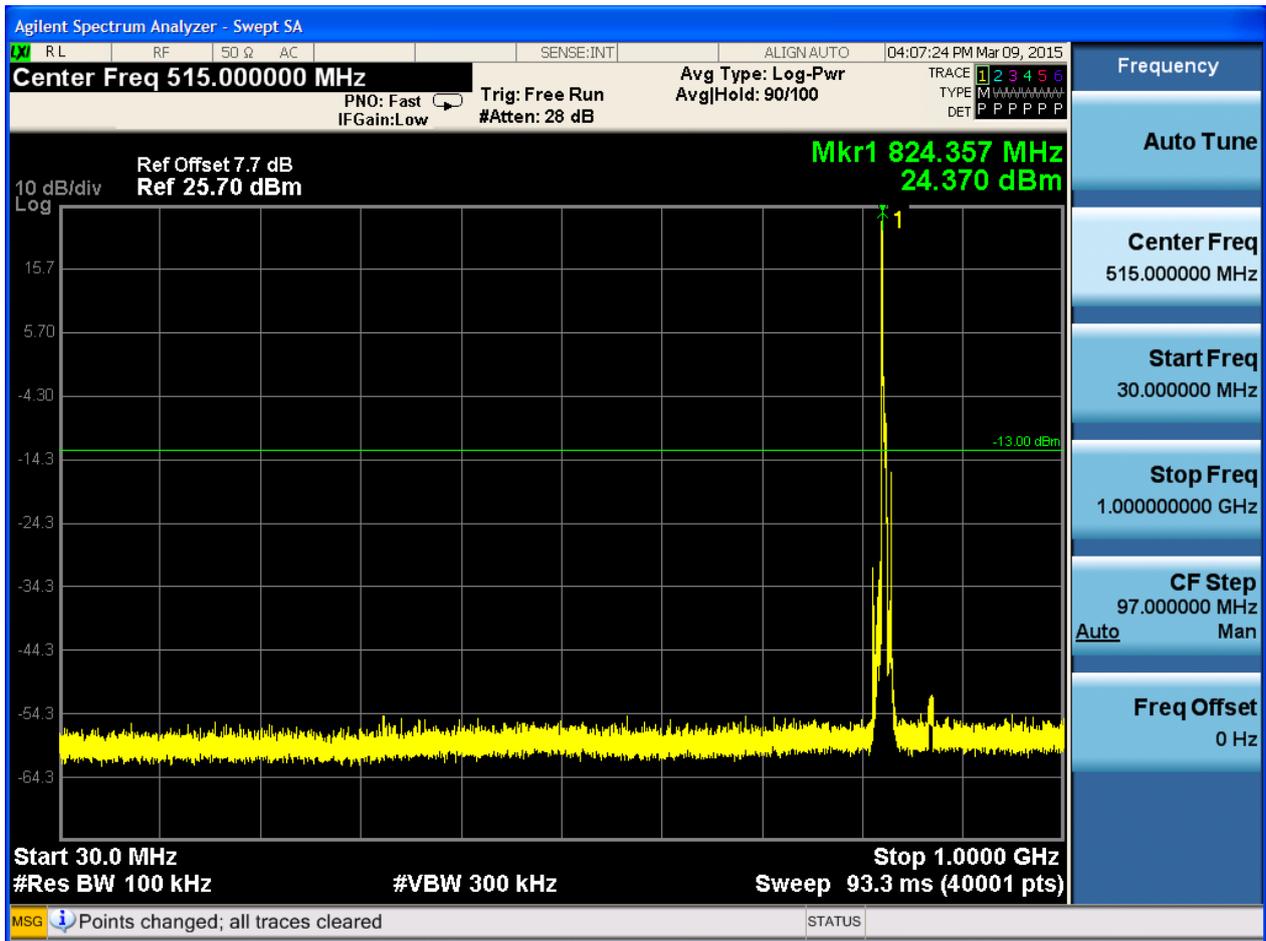


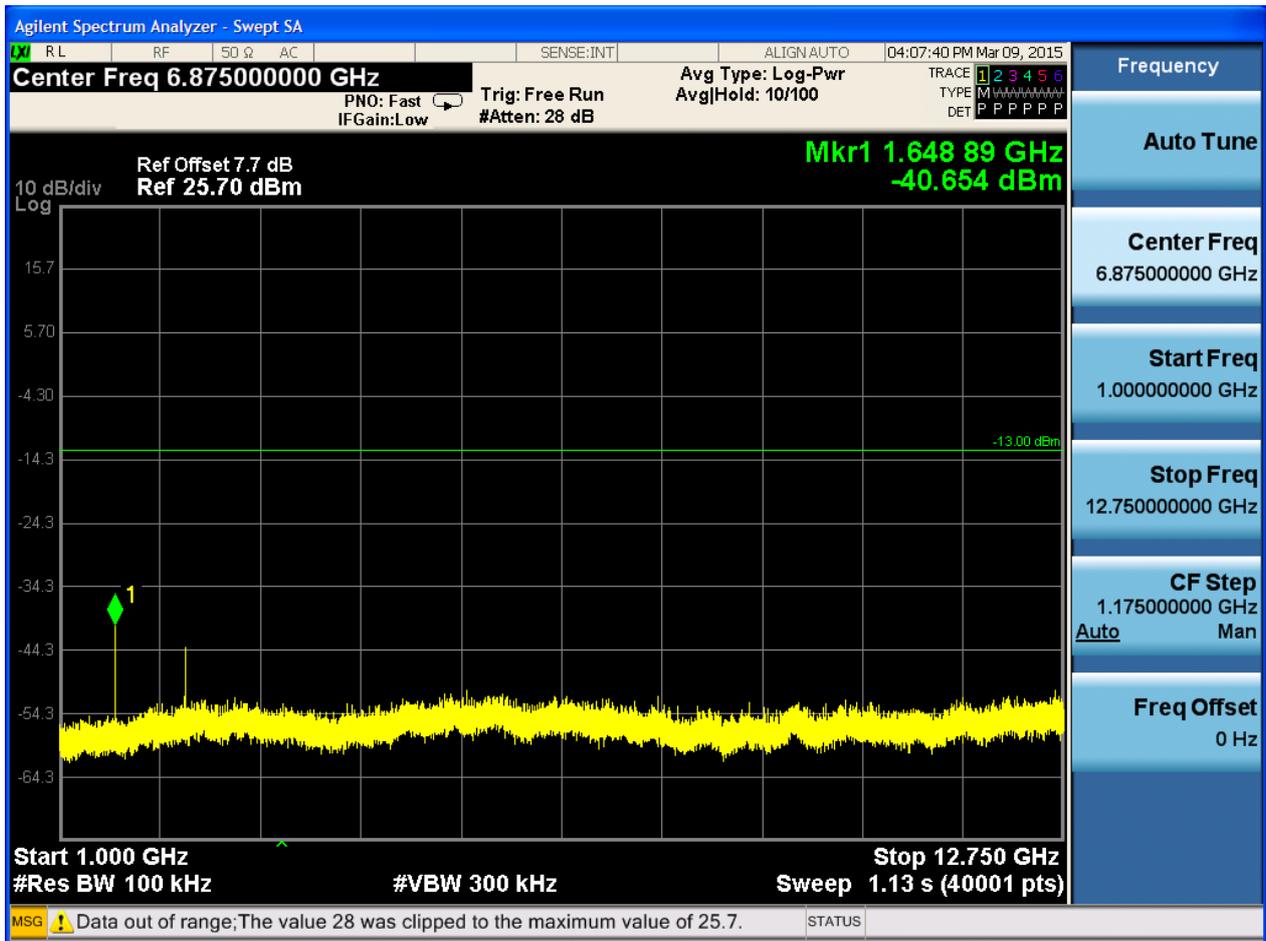
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

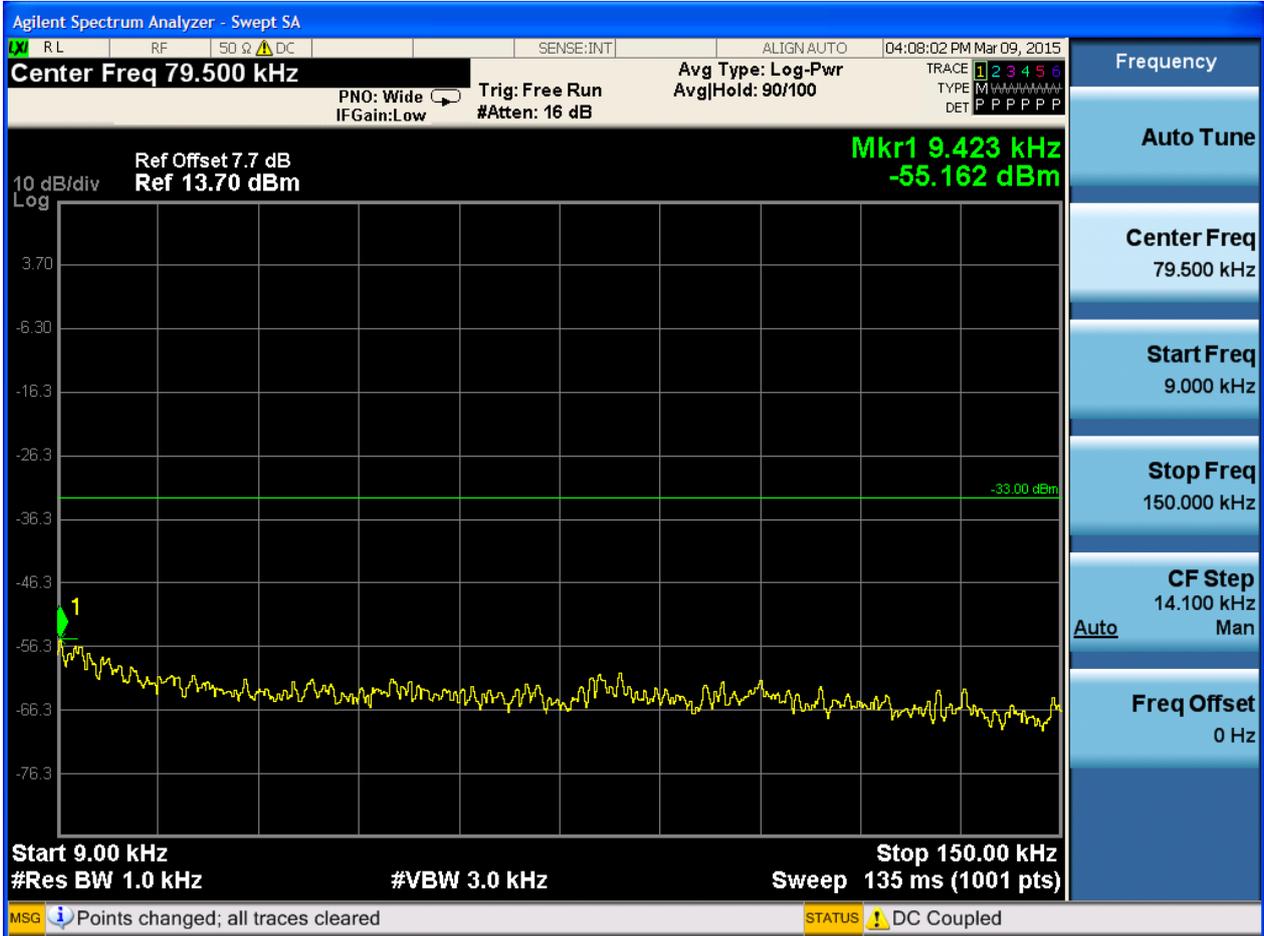


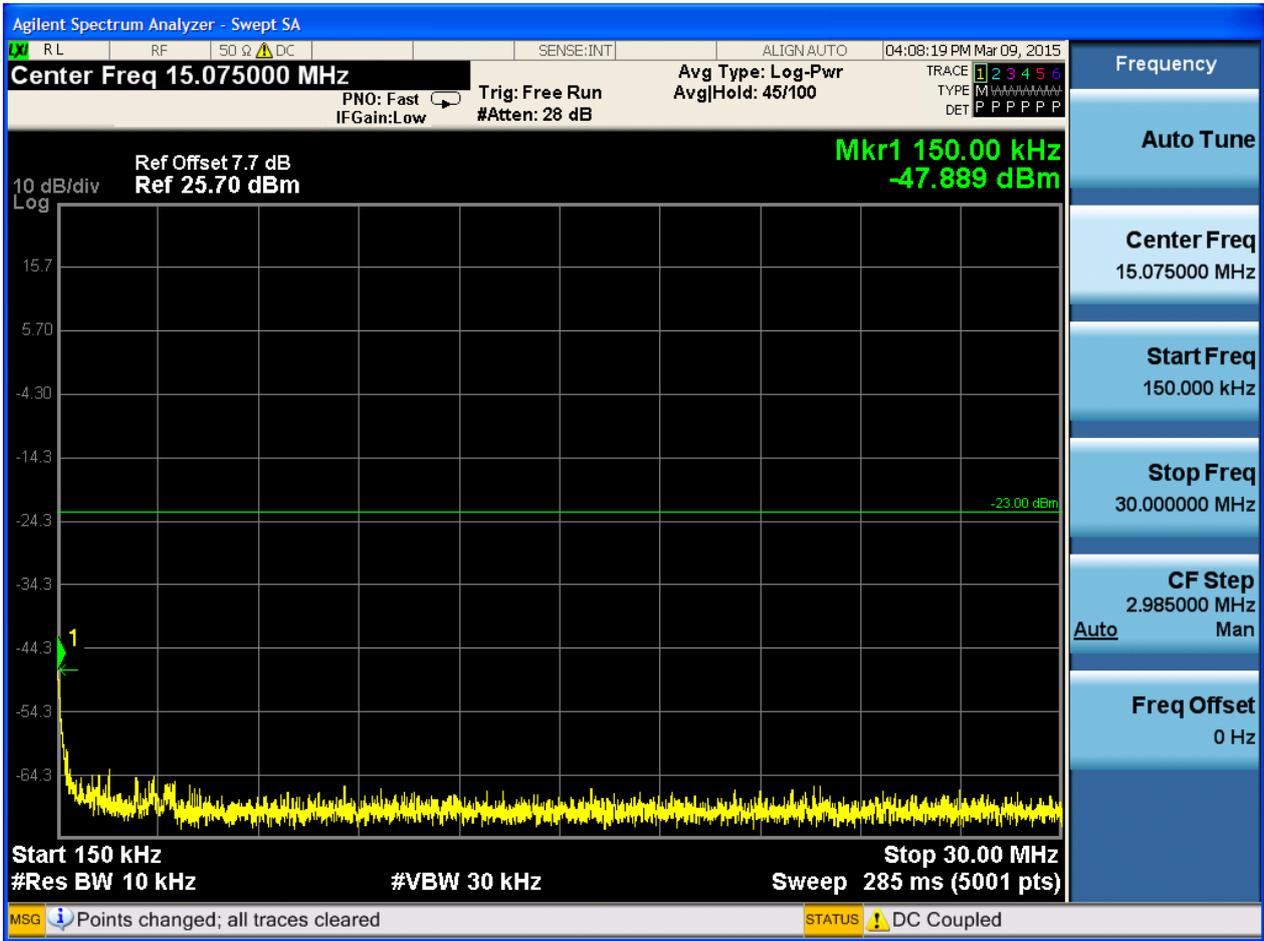


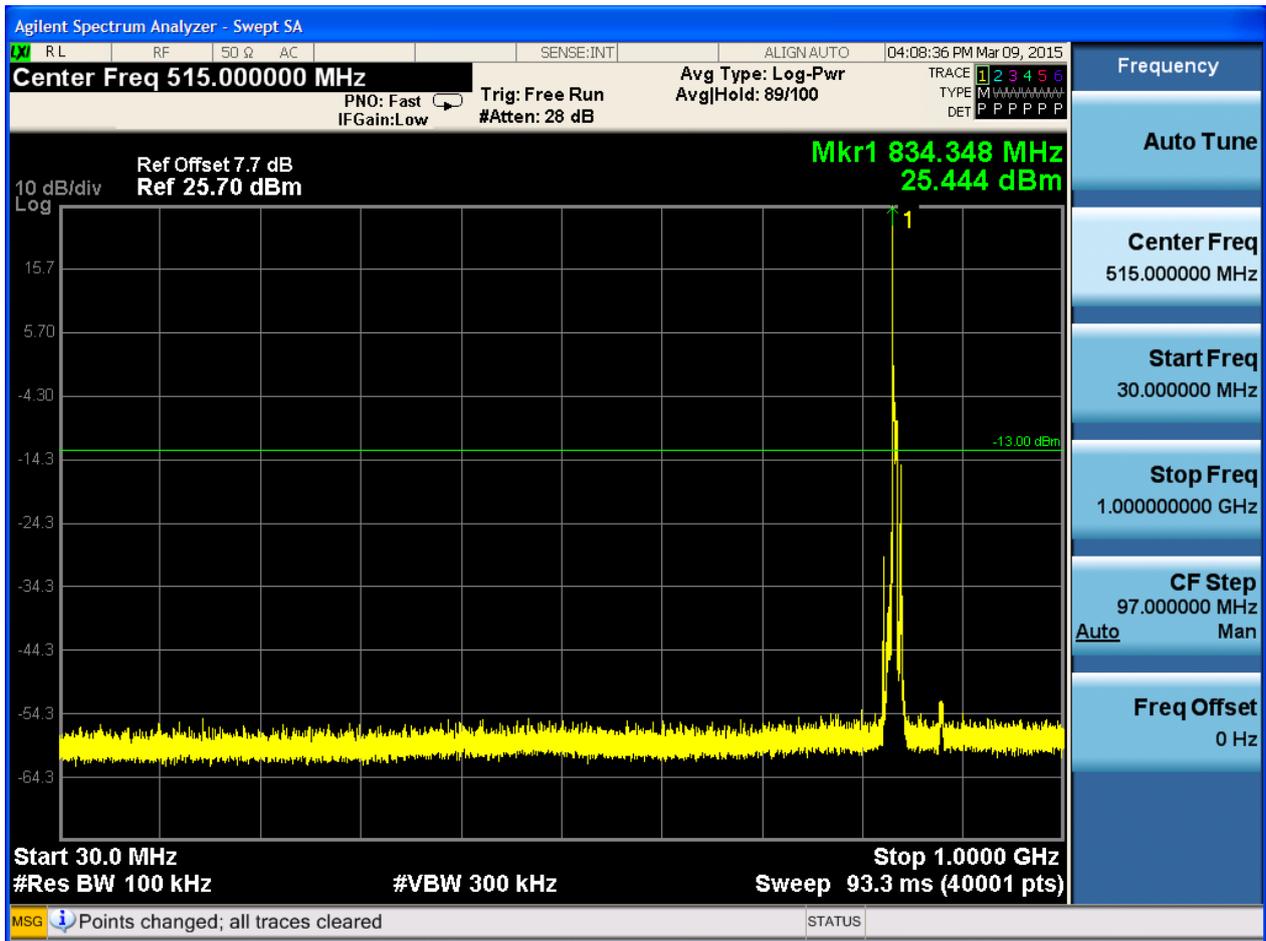


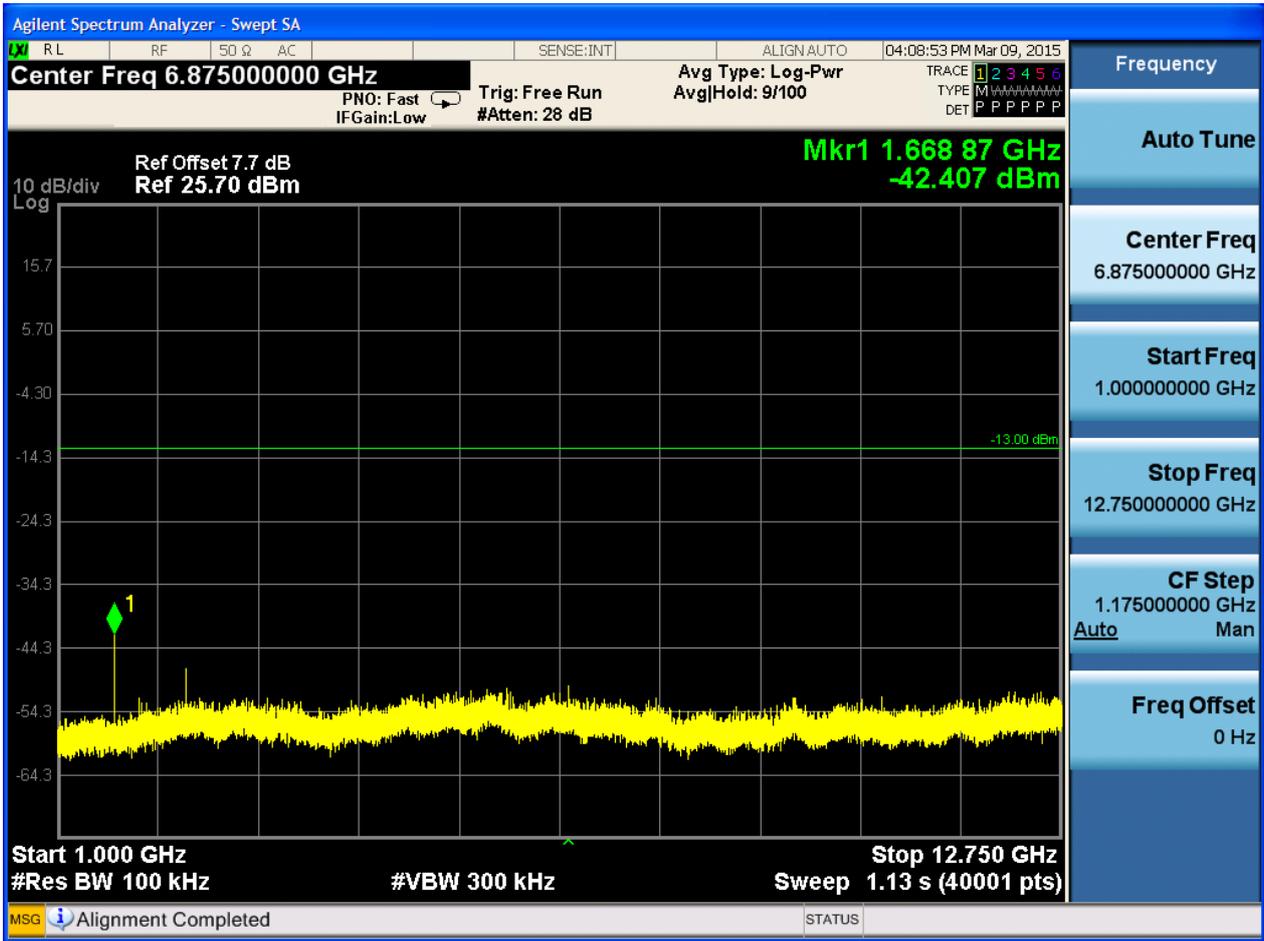
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0





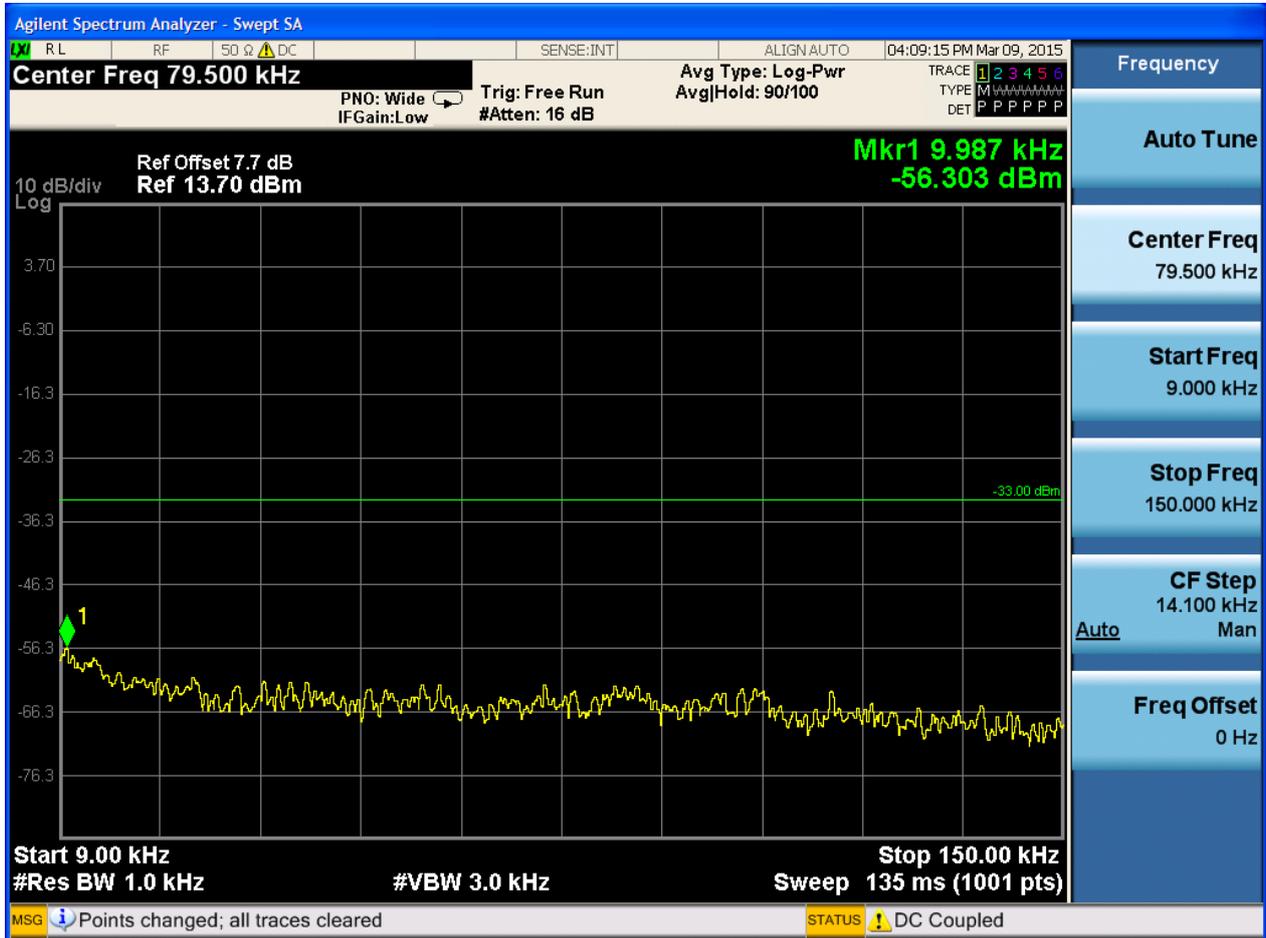




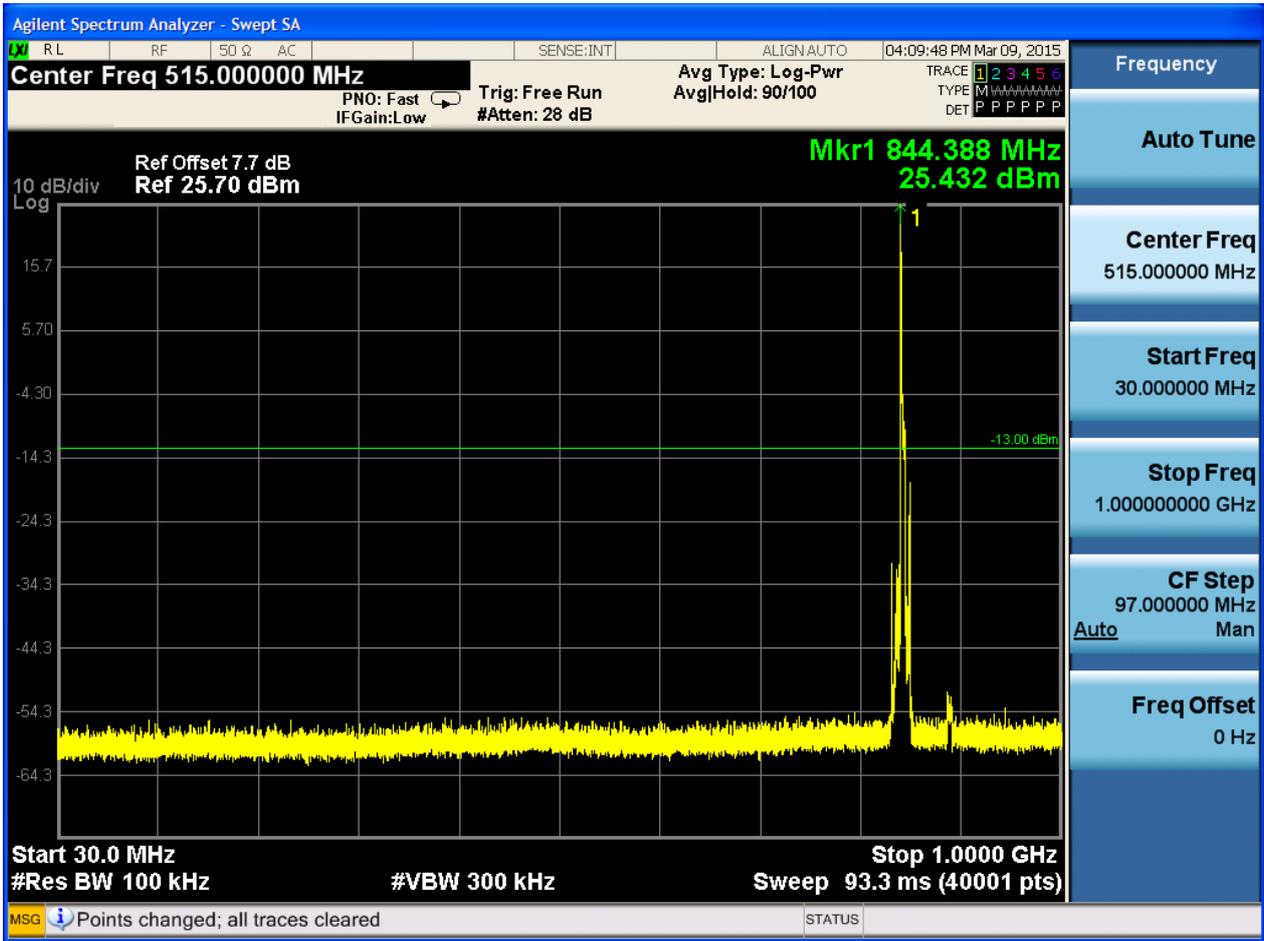


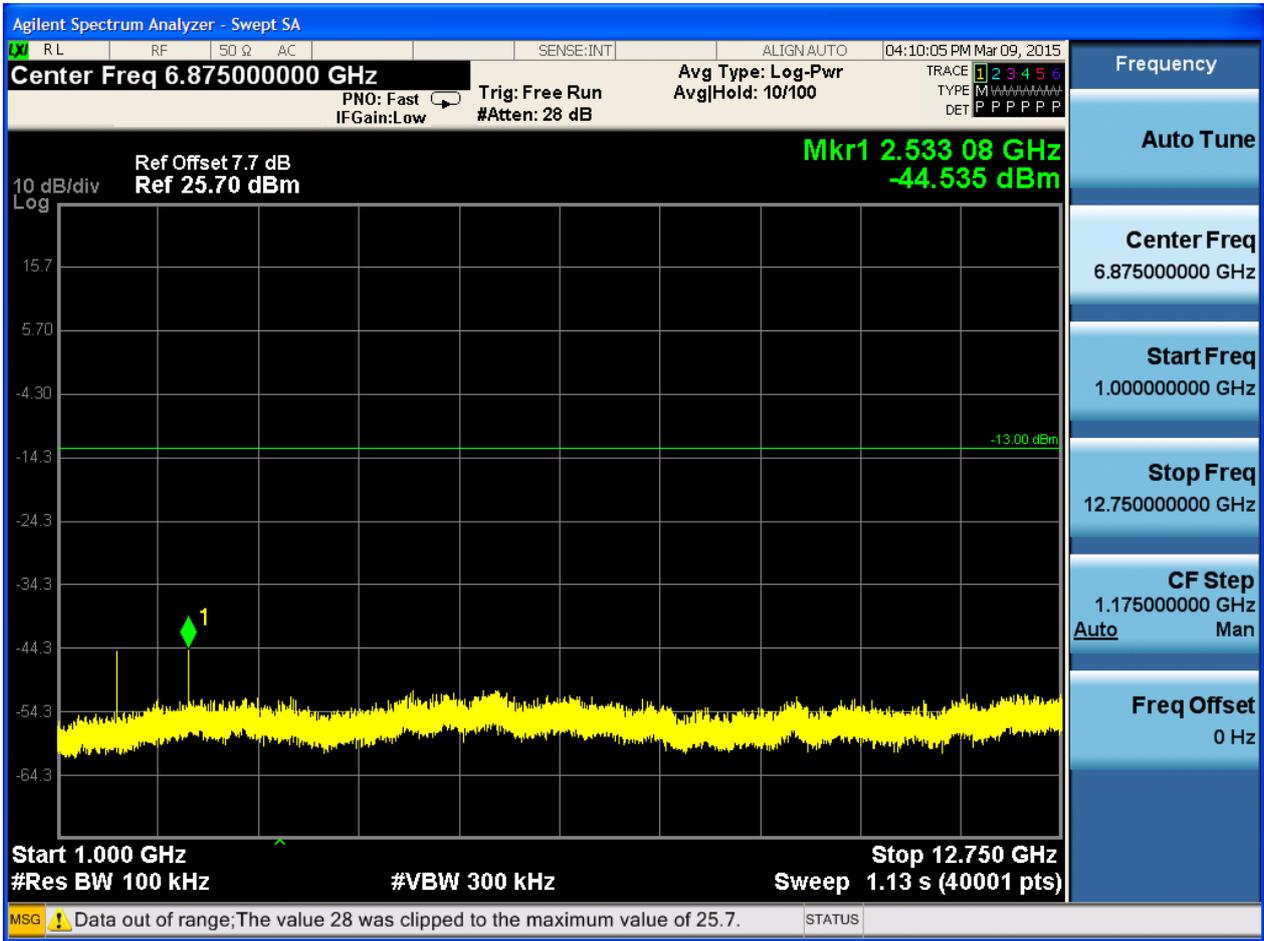
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







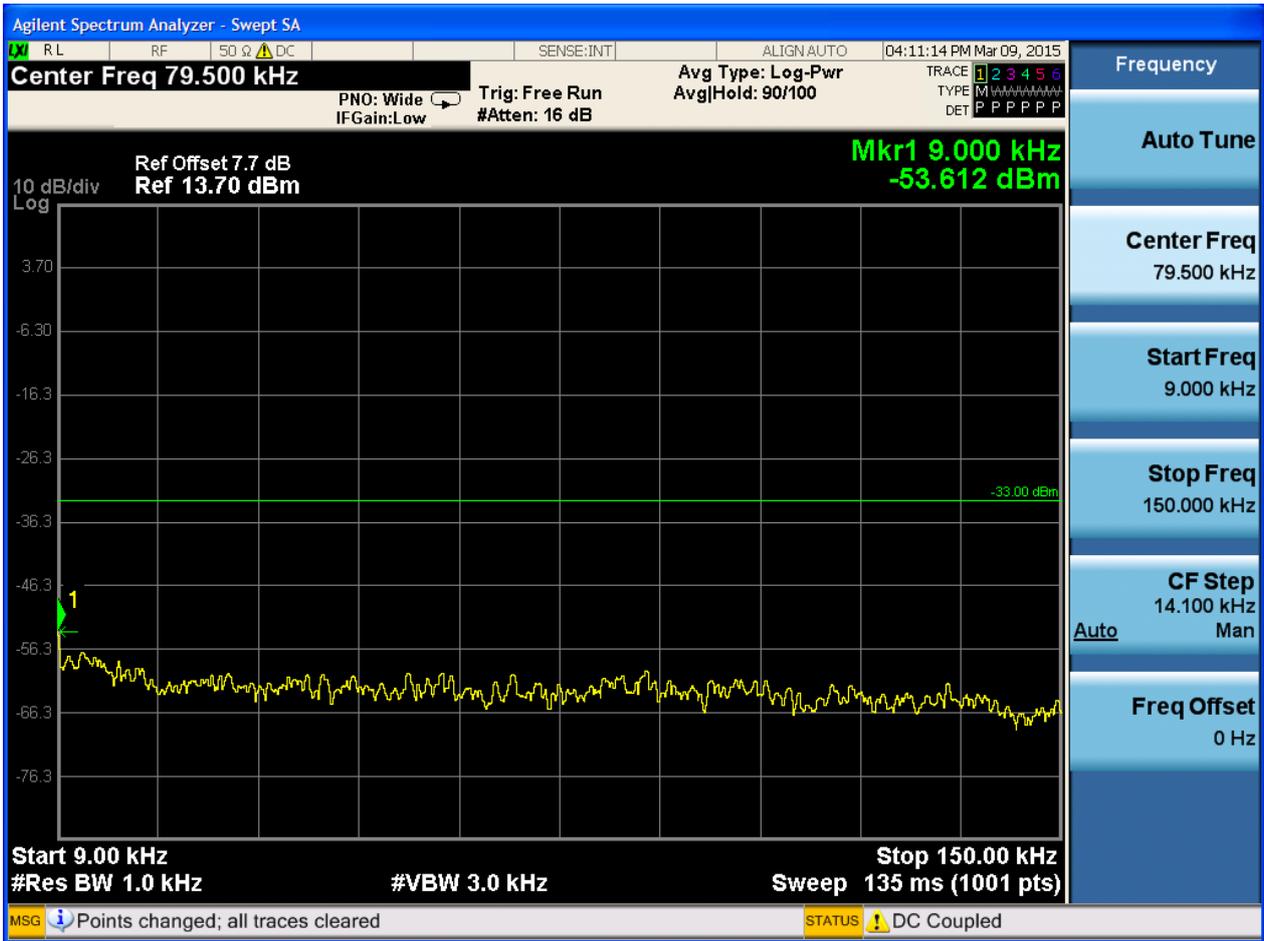


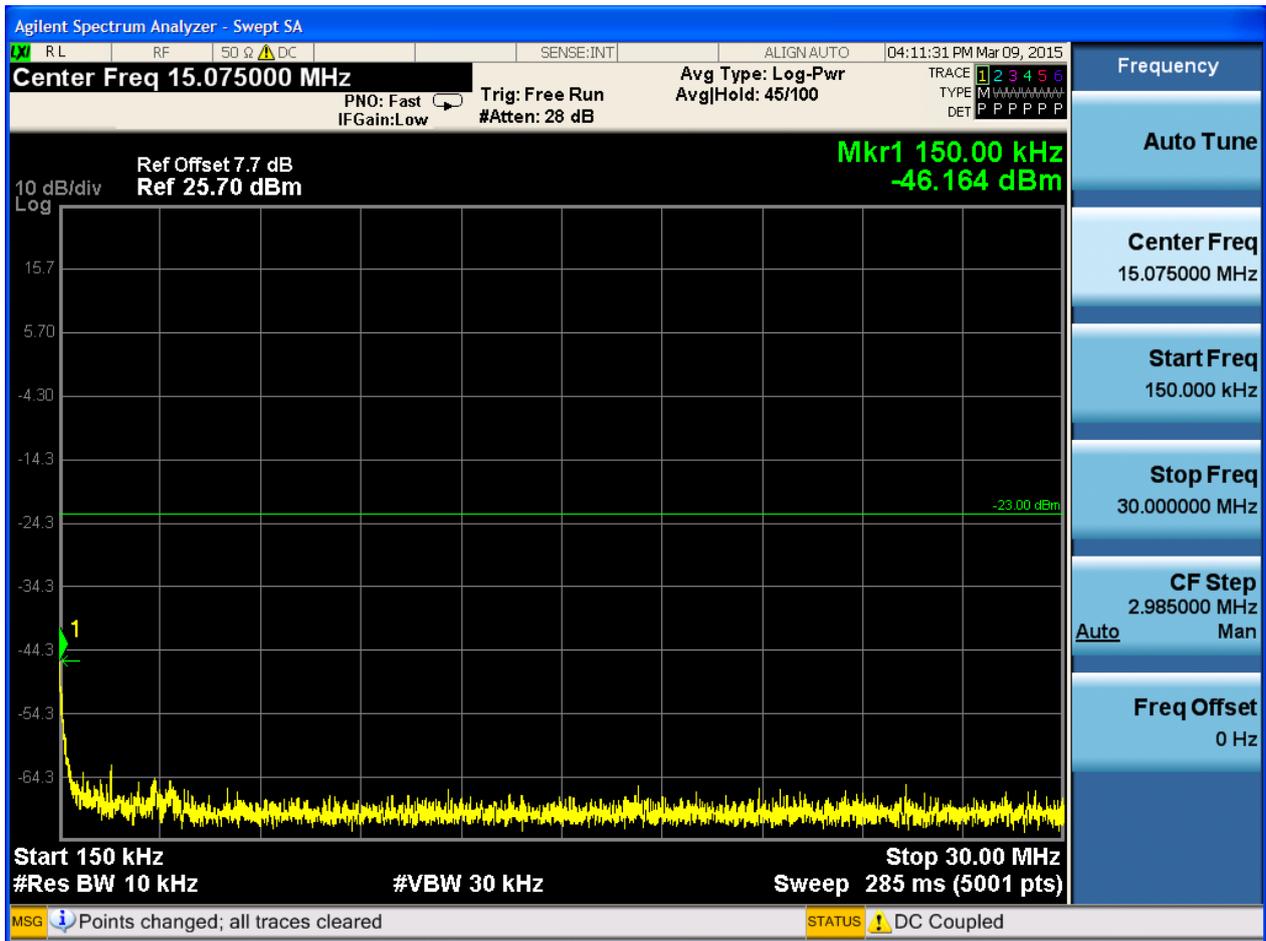


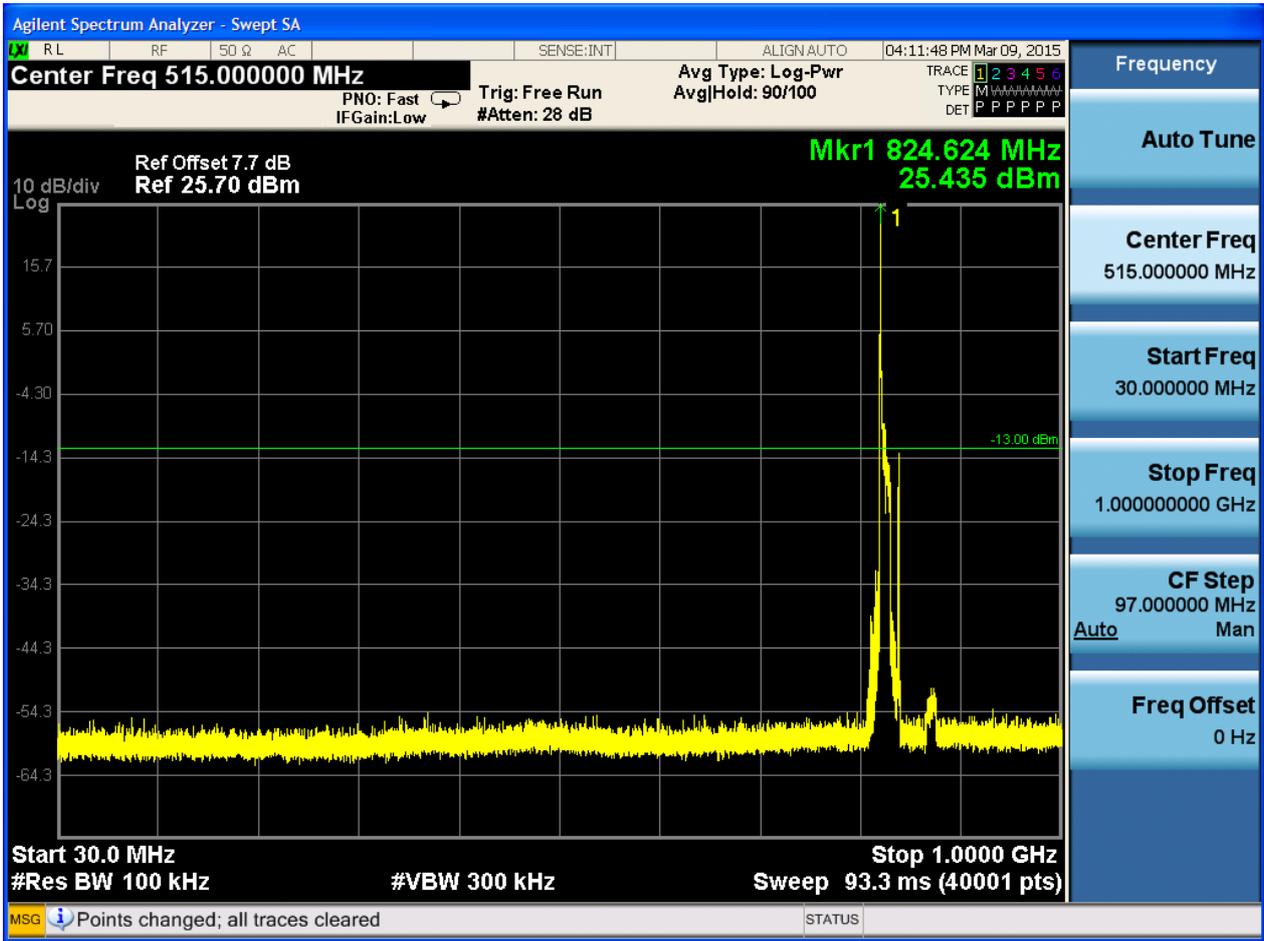
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

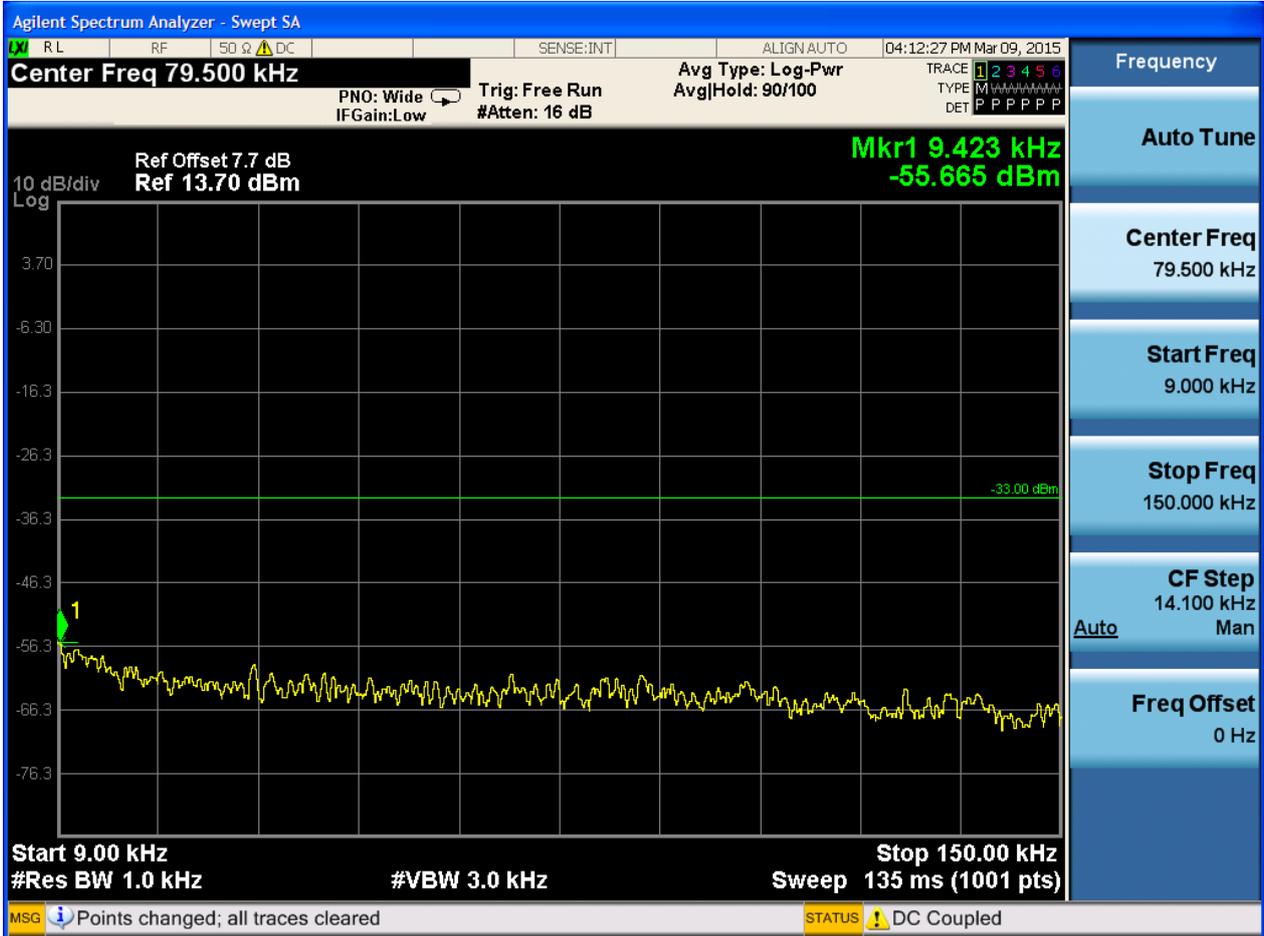


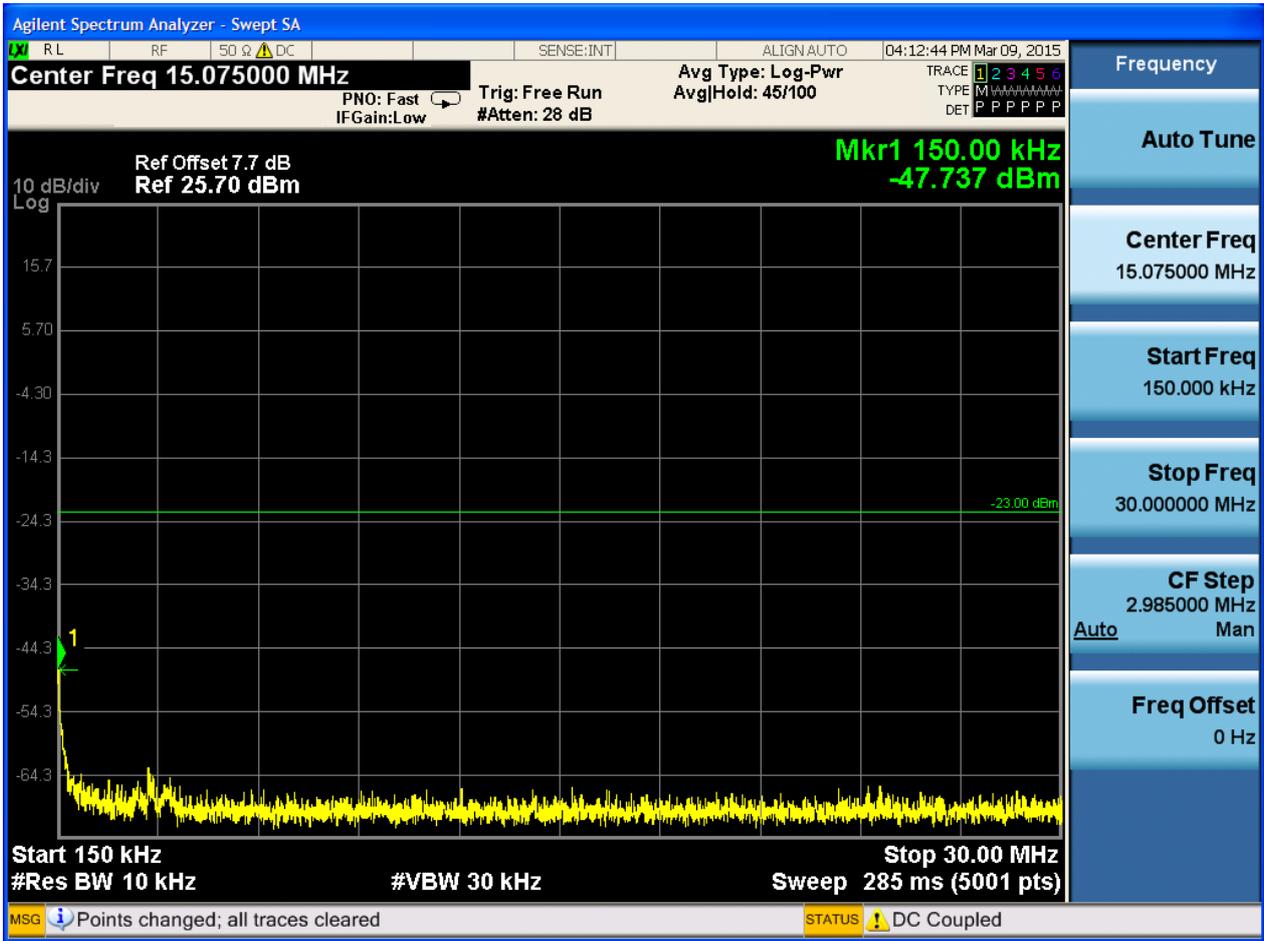


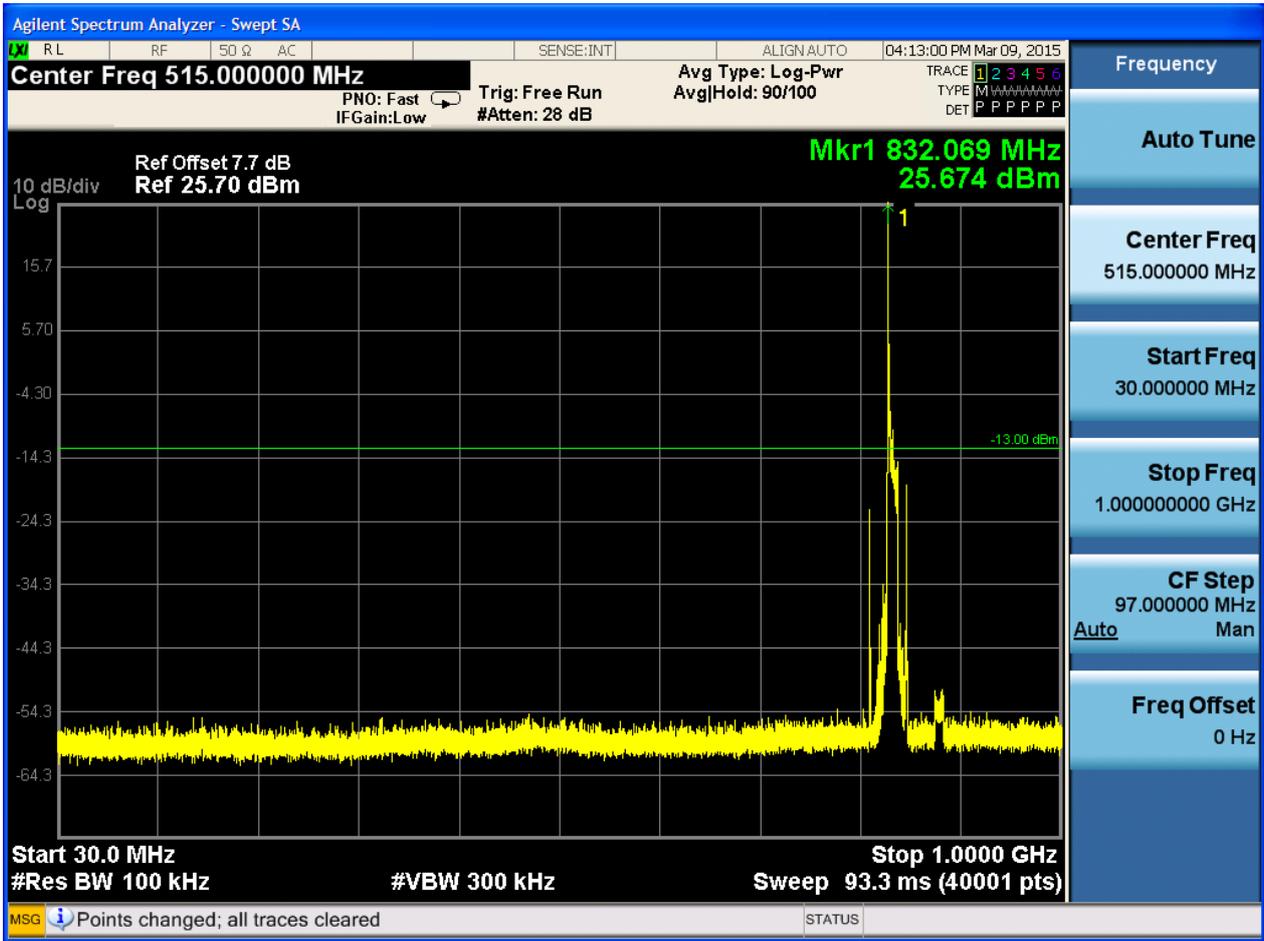


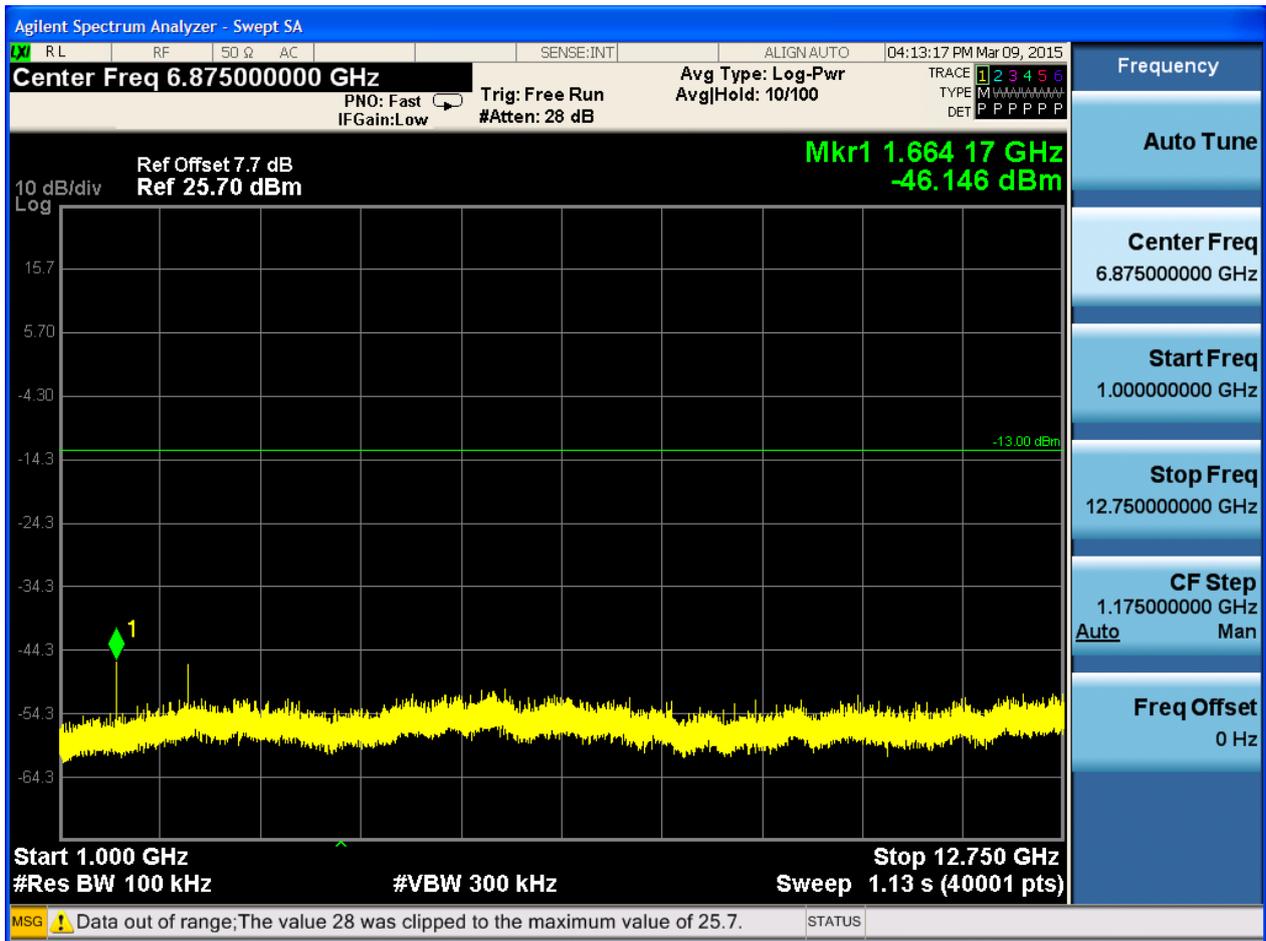
6.1.1.2.4.2 Test Channel = MCH

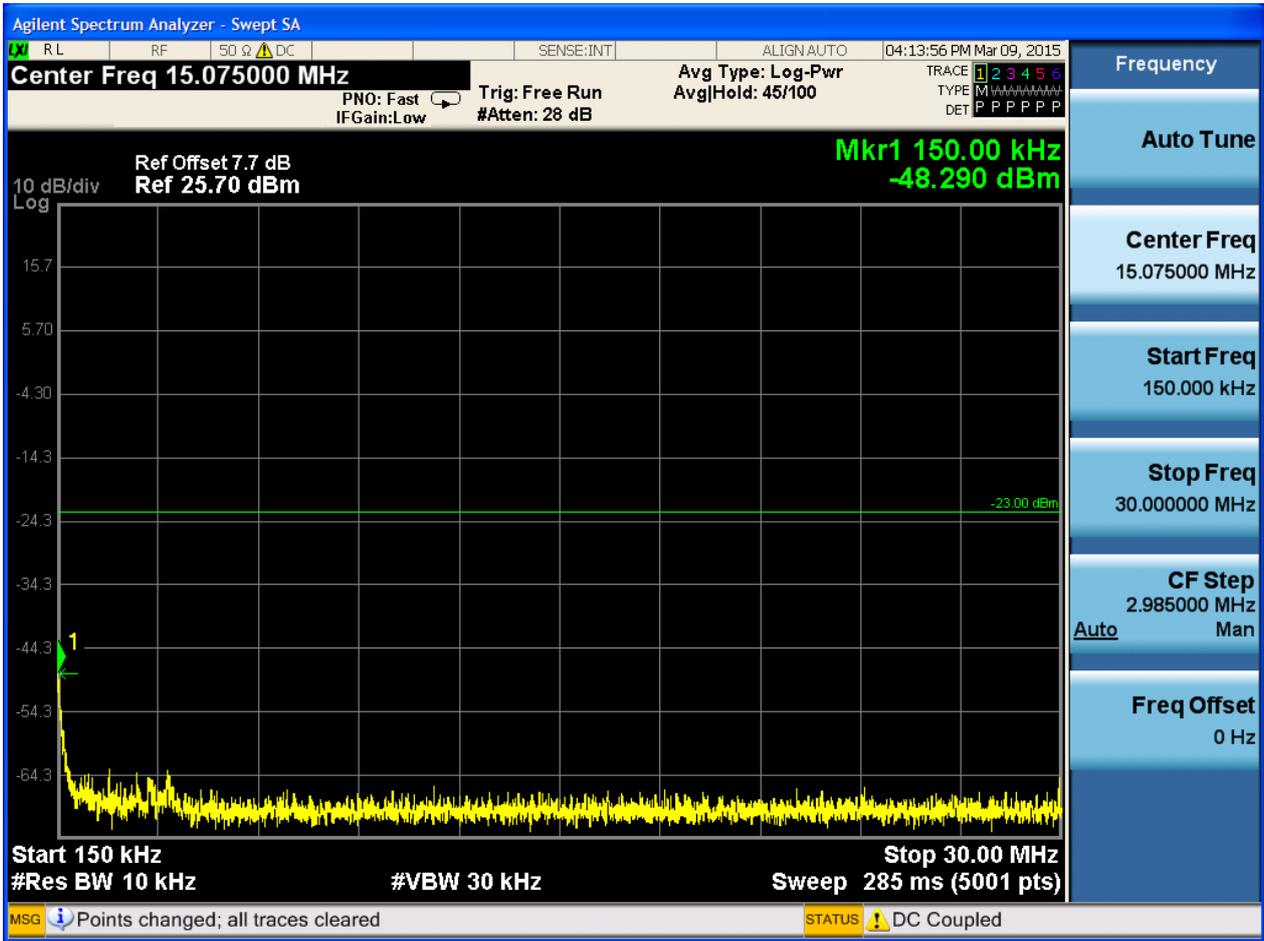
6.1.1.2.4.2.1 Test RB = RB1#0

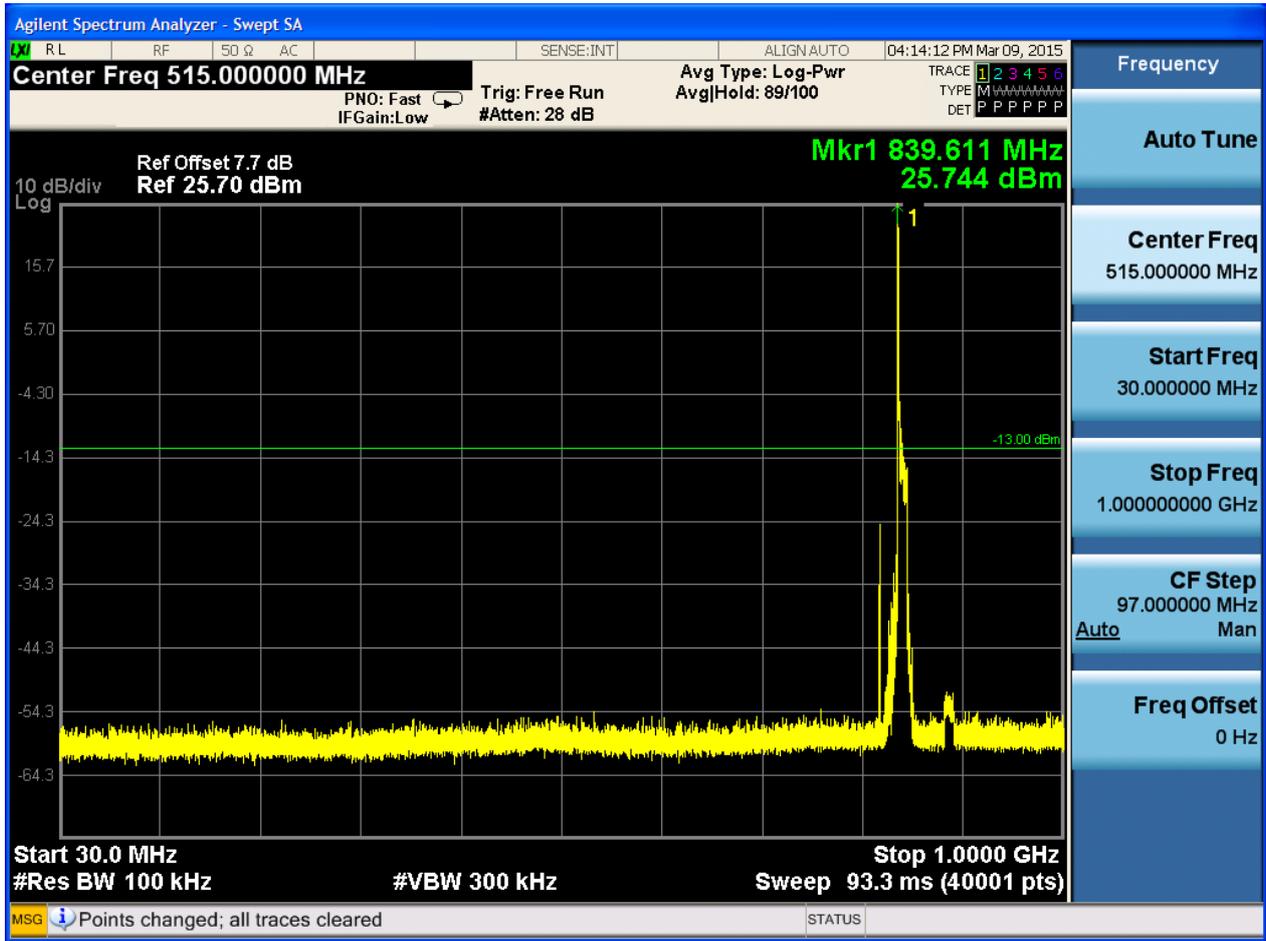


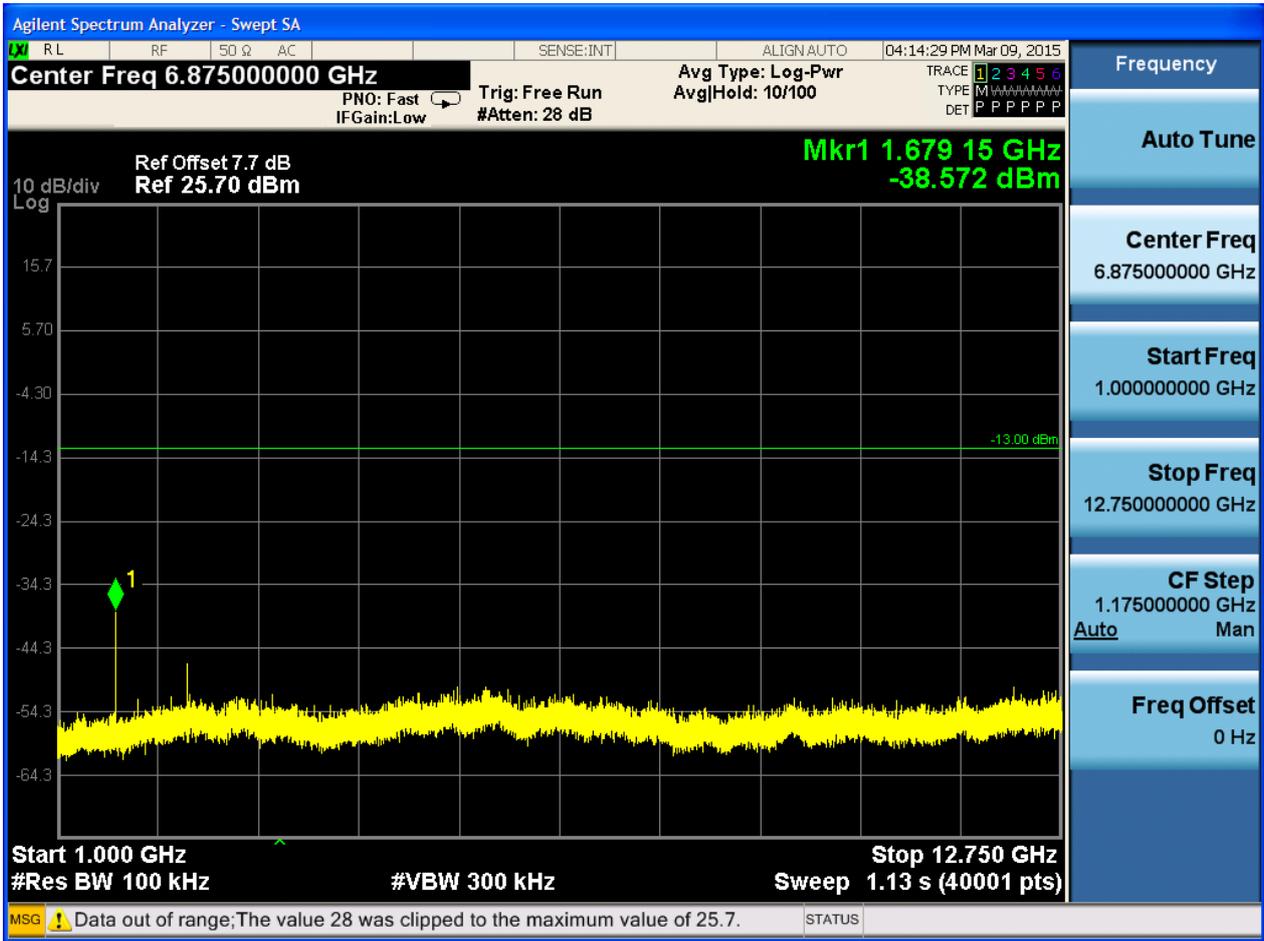












7 Appendix_G: Field Strength of Spurious Radiation

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

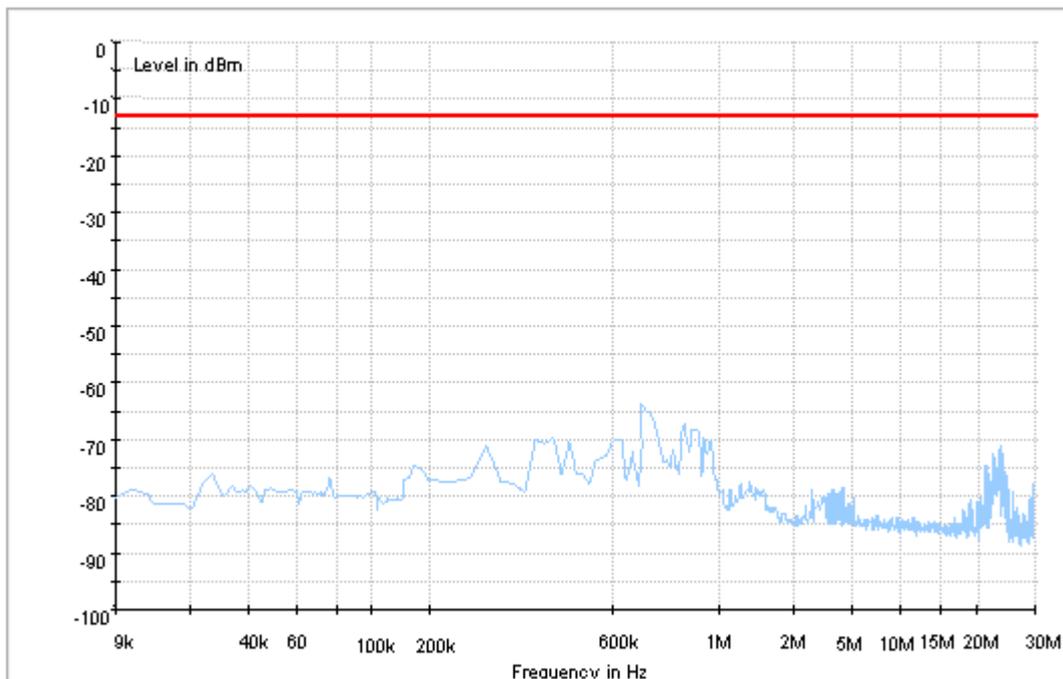
We tested all modes, but the data presented below is the worst case.

Part I - Test Plots

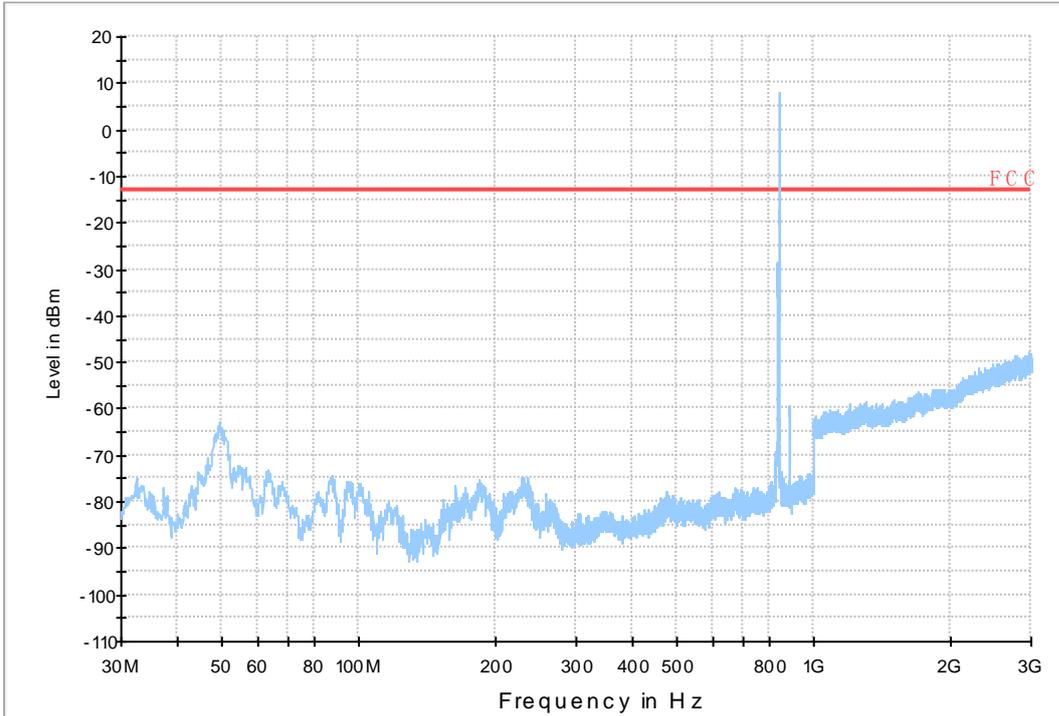
7.1 For LTE

7.1.1 Test Band = BAND5

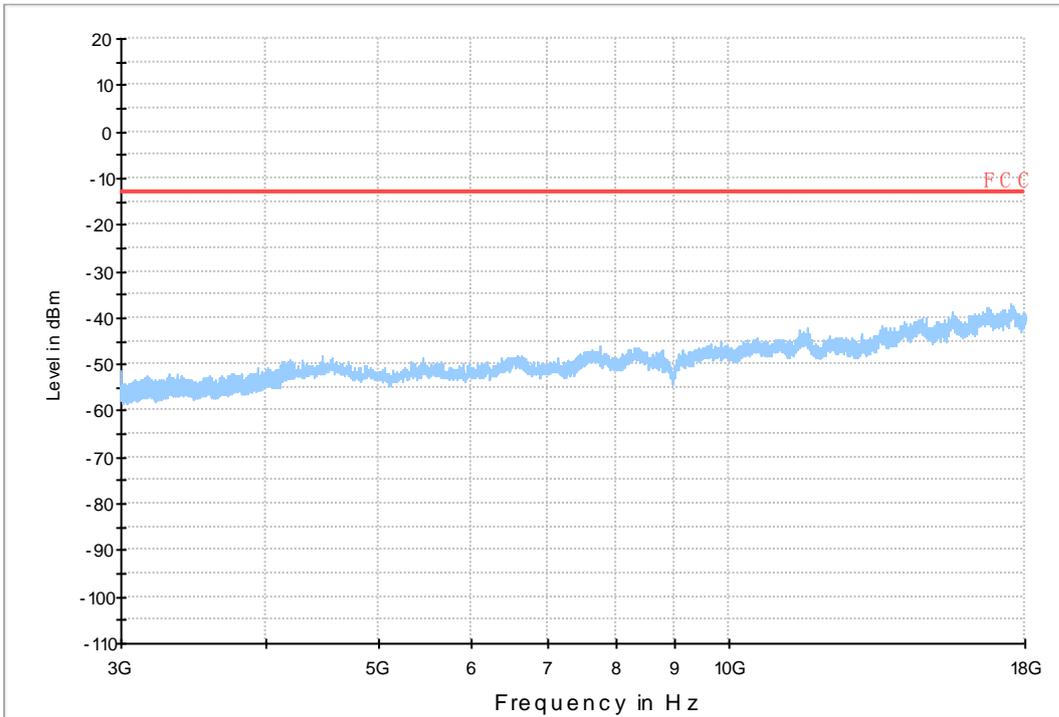
7.1.1.1 Test Bandwidth = 1.4



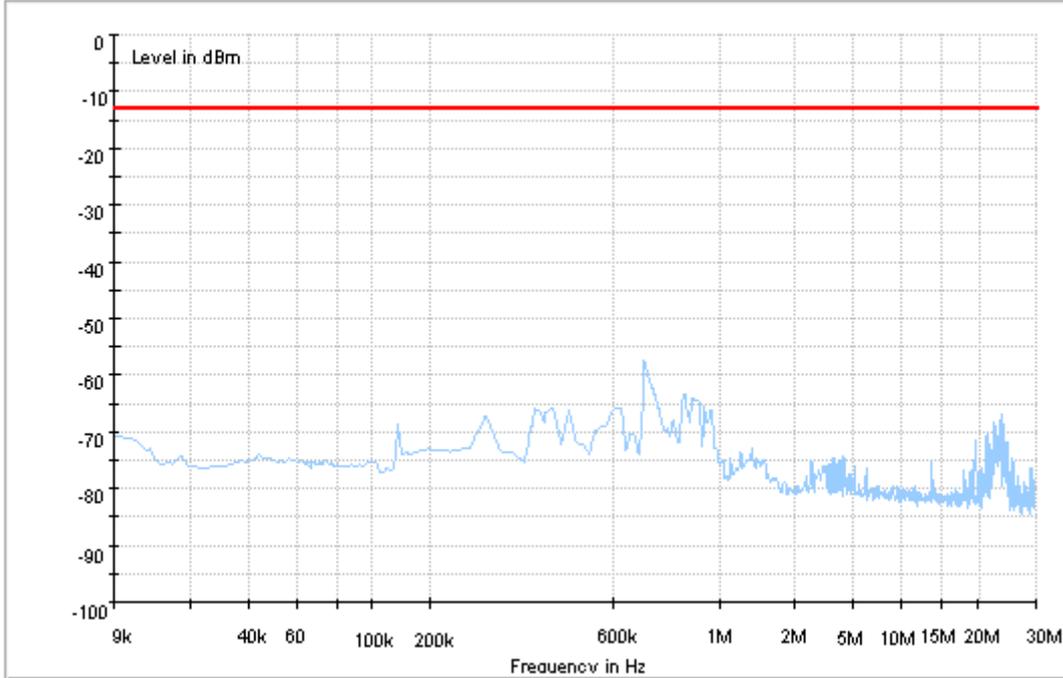
Copy of FCC PART22 LTE Band 5_L



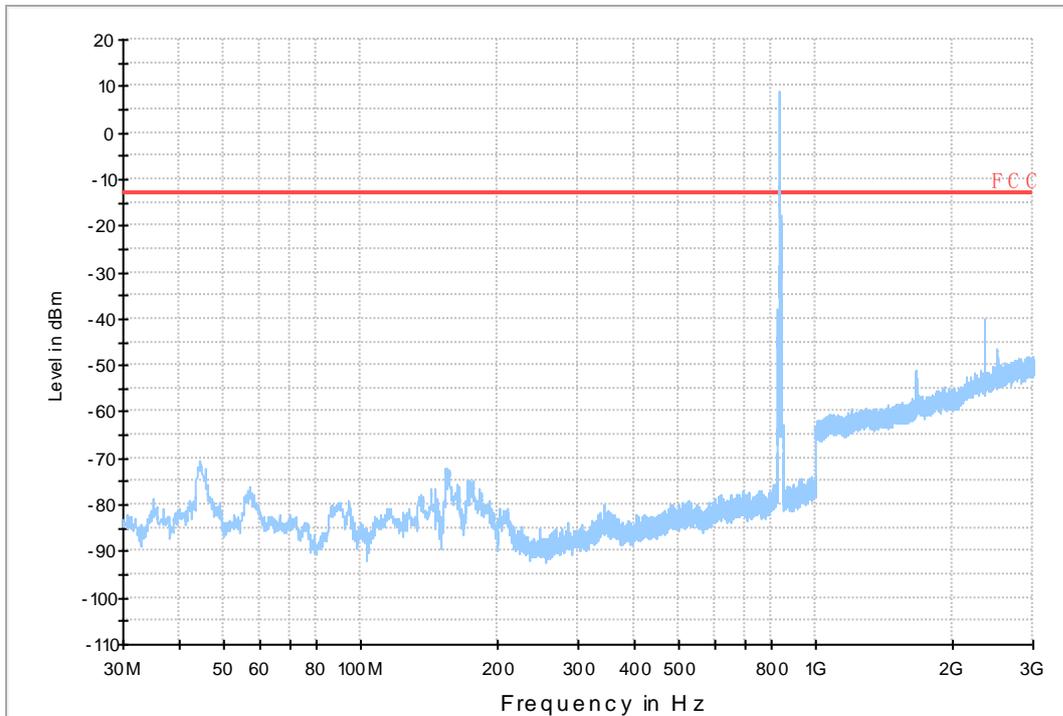
Copy of FCC PART22 LTE Band 5_H



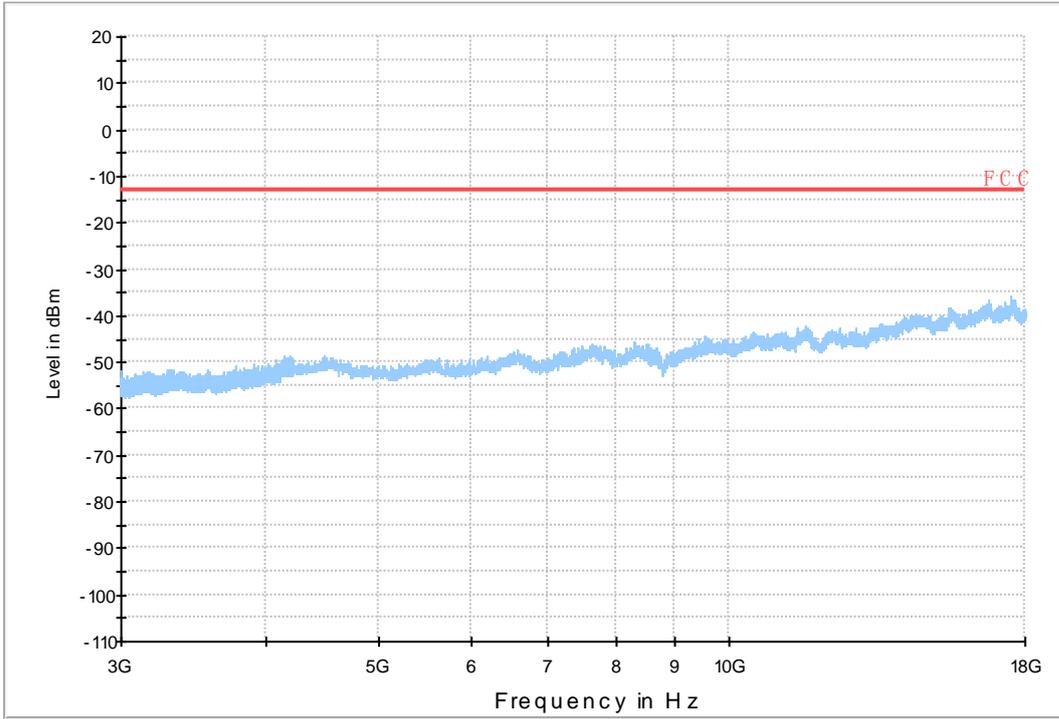
7.1.1.2 Test Bandwidth = 5



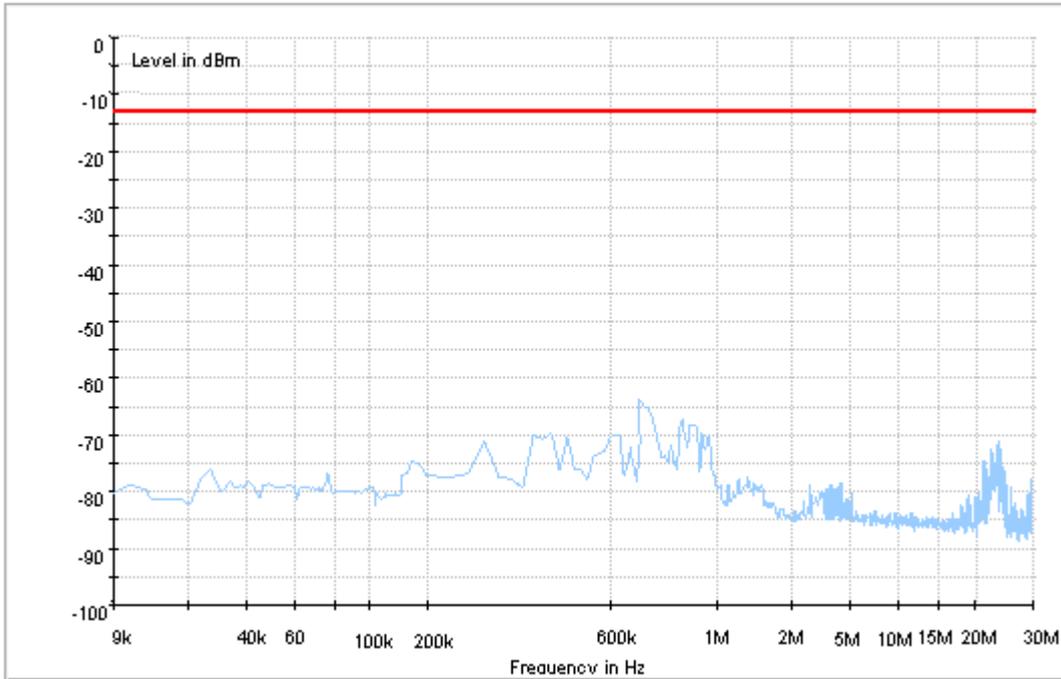
Copy of FCC PART22 LTE Band 5_L



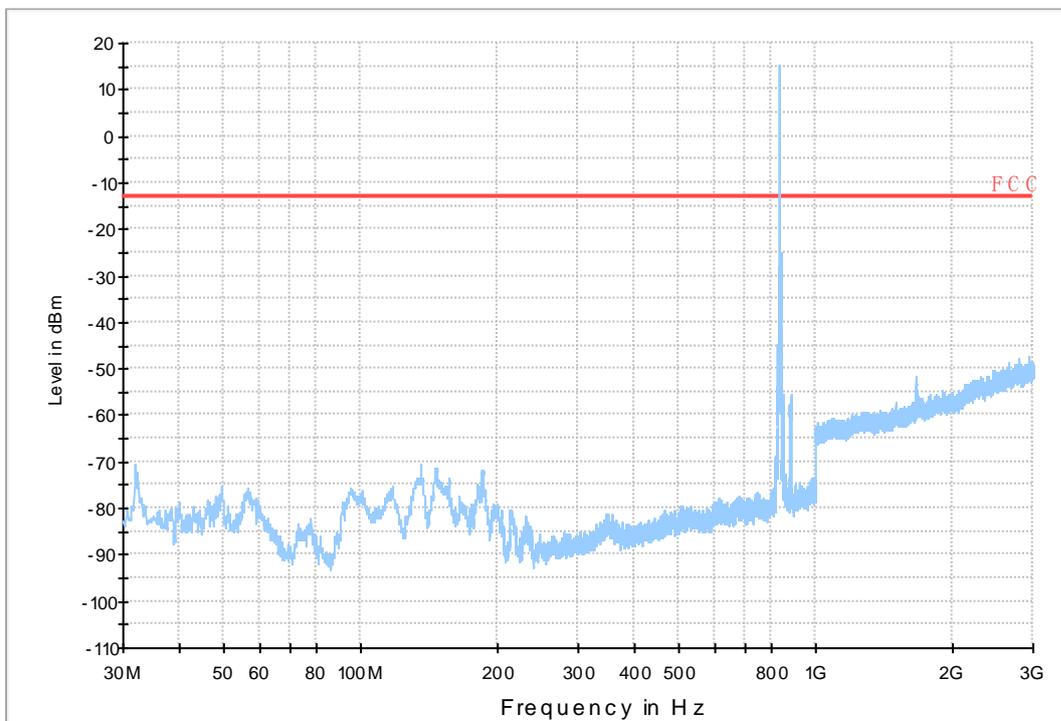
Copy of FCC PART22 LTE Band 5_H



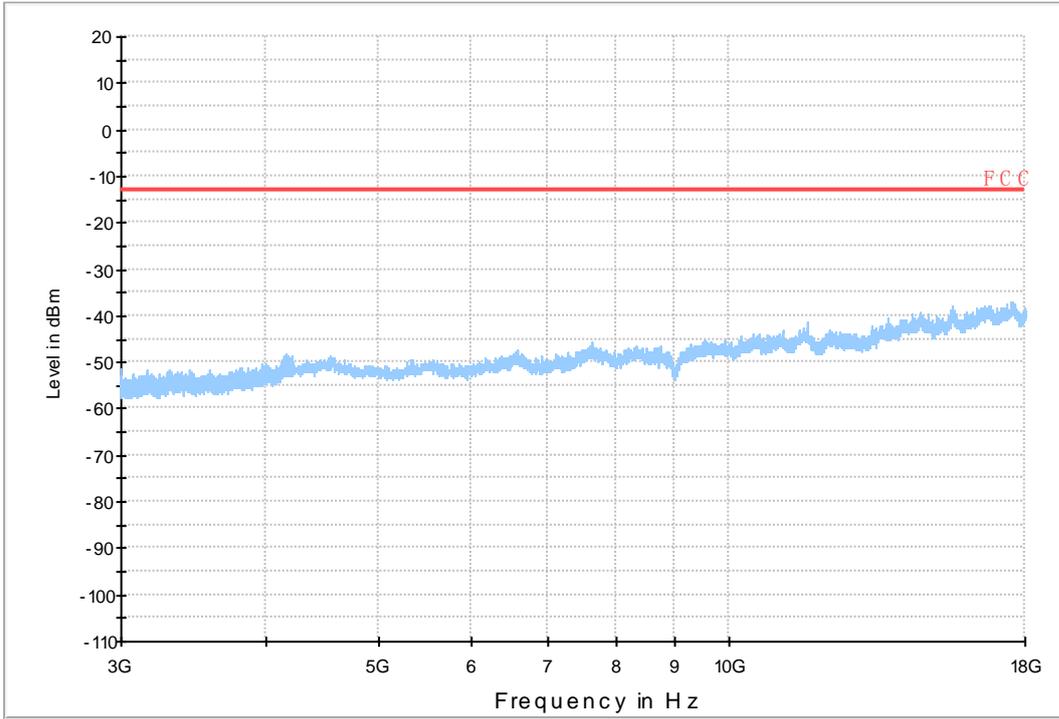
7.1.1.3 Test Bandwidth = 10



Copy of FCC PART22 LTE Band 5_L



Copy of FCC PART22 LTE Band 5_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	-10.19	-0.01236	PASS
					VN	-0.73	-0.00089	PASS
					VH	-2.6	-0.00315	PASS
			MCH	TN	VL	4.82	0.00576	PASS
					VN	3.86	0.00461	PASS
					VH	4.89	0.00585	PASS
			HCH	TN	VL	-9.61	-0.01133	PASS
					VN	15.28	0.01801	PASS
					VH	-3.82	-0.0045	PASS
		3	LCH	TN	VL	1.99	0.00241	PASS
					VN	9.11	0.01104	PASS
					VH	1.33	0.00161	PASS
			MCH	TN	VL	1.63	0.00195	PASS
					VN	2.37	0.00283	PASS
					VH	5.82	0.00696	PASS
			HCH	TN	VL	-3.35	-0.00395	PASS
					VN	-1	-0.00118	PASS
					VH	-3.78	-0.00446	PASS
		5	LCH	TN	VL	2.29	0.00277	PASS
					VN	2	0.00242	PASS
					VH	2.23	0.0027	PASS
			MCH	TN	VL	-1.49	-0.00178	PASS
					VN	-2.6	-0.00311	PASS
					VH	-1.46	-0.00175	PASS
			HCH	TN	VL	-1.06	-0.00125	PASS
					VN	2.96	0.0035	PASS
					VH	1.24	0.00146	PASS
		10	LCH	TN	VL	-0.76	-0.00092	PASS
					VN	-10.87	-0.01311	PASS
					VH	3.86	0.00466	PASS
MCH	TN				VL	1.62	0.00194	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VN	9.6	0.01148	PASS
					VH	2.92	0.00349	PASS
					VL	0.76	0.0009	PASS
			VN	-0.93	-0.0011	PASS		
			VH	-1.53	-0.00181	PASS		
			VL	-8.54	-0.01036	PASS		
		1.4	LCH	TN	VN	-1.67	-0.00202	PASS
					VH	-0.8	-0.00097	PASS
					VL	4.42	0.00528	PASS
			MCH	TN	VN	-5.19	-0.0062	PASS
					VH	7.74	0.00925	PASS
					VL	-11.13	-0.01312	PASS
	HCH		TN	VN	4.69	0.00553	PASS	
				VH	-3.46	-0.00408	PASS	
				VL	-4.13	-0.005	PASS	
	3		LCH	TN	VN	-1.54	-0.00187	PASS
					VH	57.02	0.06907	PASS
					VL	4.35	0.0052	PASS
		MCH	TN	VN	-5.45	-0.00652	PASS	
				VH	2.85	0.00341	PASS	
				VL	-1.86	-0.00219	PASS	
		HCH	TN	VN	4.89	0.00577	PASS	
				VH	-3.96	-0.00467	PASS	
				VL	-5.39	-0.00652	PASS	
		5	LCH	TN	VN	5.94	0.00719	PASS
					VH	0.41	0.0005	PASS
					VL	-6.12	-0.00732	PASS
	MCH		TN	VN	-1.66	-0.00198	PASS	
				VH	2.98	0.00356	PASS	
				VL	0.9	0.00106	PASS	
	HCH		TN	VN	-4.08	-0.00482	PASS	
				VH	-1.89	-0.00223	PASS	
				VL	-2.79	-0.00337	PASS	
	10		LCH	TN	VN	-1.59	-0.00192	PASS
					VH	-1.73	-0.00209	PASS
					VL	-9.46	-0.01131	PASS
		MCH	TN	VN	-6.69	-0.008	PASS	
				VH	6.24	0.00746	PASS	
				VL	2.32	0.00275	PASS	
		HCH	TN	VN	-1.59	-0.00192	PASS	
				VH	-1.73	-0.00209	PASS	
				VL	-9.46	-0.01131	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	1.47	0.00174	PASS
					VH	0.73	0.00086	PASS

8.1.2 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	VN	-30	-0.2	-0.00024	PASS
					-20	-7.17	-0.00869	PASS
					-10	-19.07	-0.02312	PASS
					0	9.2	0.01116	PASS
					10	13.96	0.01693	PASS
					20	-43.27	-0.05247	PASS
					30	4.12	0.005	PASS
					40	3.93	0.00477	PASS
					50	3.43	0.00416	PASS
			MCH	VN	-30	6.94	0.0083	PASS
					-20	7.08	0.00846	PASS
					-10	-10.57	-0.01264	PASS
					0	2.02	0.00241	PASS
					10	4.69	0.00561	PASS
					20	3.81	0.00455	PASS
					30	3.43	0.0041	PASS
					40	0.1	0.00012	PASS
					50	11.06	0.01322	PASS
		HCH	VN	-30	-5.44	-0.00641	PASS	
				-20	-9.57	-0.01128	PASS	
				-10	-4.52	-0.00533	PASS	
				0	0.3	0.00035	PASS	
				10	10.61	0.01251	PASS	
				20	-7.87	-0.00928	PASS	
				30	-6.47	-0.00763	PASS	
				40	-3.3	-0.00389	PASS	
				50	10.9	0.01285	PASS	
3	LCH	VN	-30	17.47	0.02116	PASS		
			-20	-3.16	-0.00383	PASS		
			-10	3.03	0.00367	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		5			0	8.47	0.01026	PASS	
					10	-2.12	-0.00257	PASS	
					20	-0.3	-0.00036	PASS	
					30	1.16	0.00141	PASS	
					40	-0.16	-0.00019	PASS	
					50	-0.07	-0.00008	PASS	
			MCH	VN	-30	0.04	0.00005	PASS	
					-20	4.29	0.00513	PASS	
					-10	7.08	0.00846	PASS	
					0	6.74	0.00806	PASS	
					10	5.08	0.00607	PASS	
					20	-1.3	-0.00155	PASS	
					30	-0.97	-0.00116	PASS	
					40	-2.07	-0.00247	PASS	
			HCH	VN	-30	3.58	0.00422	PASS	
					-20	3.76	0.00444	PASS	
					-10	0.11	0.00013	PASS	
					0	-0.47	-0.00055	PASS	
					10	-0.11	-0.00013	PASS	
					20	-5.76	-0.0068	PASS	
					30	2.96	0.00349	PASS	
					40	1.83	0.00216	PASS	
			LCH	VN	-30	4.81	0.00582	PASS	
					-20	1.54	0.00186	PASS	
		-10			1.23	0.00149	PASS		
		0			-1.66	-0.00201	PASS		
		10			-0.49	-0.00059	PASS		
		20			3.95	0.00478	PASS		
		30			-0.69	-0.00083	PASS		
		40			-352.86	-0.42693	PASS		
		50			-0.14	-0.00017	PASS		
		MCH			VN	-30	3.26	0.0039	PASS
						-20	4.75	0.00568	PASS
						-10	-0.14	-0.00017	PASS
			0	6.31		0.00754	PASS		
			10	7.42		0.00887	PASS		
20	0.84		0.001	PASS					

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
			HCH	VN	30	1.34	0.0016	PASS	
					40	4.29	0.00513	PASS	
					50	-3.22	-0.00385	PASS	
					-30	0.77	0.00091	PASS	
					-20	1.9	0.00224	PASS	
					-10	3.79	0.00448	PASS	
					0	4.41	0.00521	PASS	
					10	-2.15	-0.00254	PASS	
					20	0.21	0.00025	PASS	
					30	-0.99	-0.00117	PASS	
			40	-2.76	-0.00326	PASS			
			50	-0.67	-0.00079	PASS			
			10	LCH	VN	-30	-1.34	-0.00162	PASS
						-20	2.37	0.00286	PASS
						-10	1.67	0.00201	PASS
						0	-10.93	-0.01318	PASS
						10	-24.2	-0.02919	PASS
						20	-6.88	-0.0083	PASS
						30	11.69	0.0141	PASS
						40	4.06	0.0049	PASS
		50				-4.26	-0.00514	PASS	
		10				MCH	VN	-30	-123
			-20	-73.81	-0.08824			PASS	
			-10	30.91	0.03695			PASS	
			0	-82.01	-0.09804			PASS	
			10	-31.81	-0.03803			PASS	
			20	95.39	0.11403			PASS	
			30	-9.6	-0.01148			PASS	
			40	-134.51	-0.1608			PASS	
			50	-17.7	-0.02116			PASS	
			10	HCH	VN			-30	0.59
		-20				-2.36	-0.0028	PASS	
		-10				-2.15	-0.00255	PASS	
		0				-1.3	-0.00154	PASS	
		10				-0.29	-0.00034	PASS	
		20				-0.72	-0.00085	PASS	
		30				-0.92	-0.00109	PASS	
		40				-0.54	-0.00064	PASS	
		50	-1.2	-0.00142	PASS				

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	VN	-30	-12.75	-0.01546	PASS
					-20	-16.95	-0.02055	PASS
					-10	21.09	0.02557	PASS
					0	5.46	0.00662	PASS
					10	-79.01	-0.0958	PASS
					20	-18.42	-0.02234	PASS
					30	11.67	0.01415	PASS
					40	5.44	0.0066	PASS
					50	-1.03	-0.00125	PASS
			MCH	VN	-30	9.61	0.01149	PASS
					-20	13.38	0.016	PASS
					-10	7.78	0.0093	PASS
					0	-3.08	-0.00368	PASS
					10	7.17	0.00857	PASS
					20	7.85	0.00938	PASS
					30	4.88	0.00583	PASS
					40	4.78	0.00571	PASS
					50	-9.73	-0.01163	PASS
		HCH	VN	-30	-8.98	-0.01059	PASS	
				-20	13.03	0.01536	PASS	
				-10	-6.78	-0.00799	PASS	
				0	-12.43	-0.01465	PASS	
				10	14.66	0.01728	PASS	
				20	4.09	0.00482	PASS	
				30	-1.36	-0.0016	PASS	
				40	-6.17	-0.00727	PASS	
				50	5.79	0.00683	PASS	
		3	LCH	VN	-30	-6.54	-0.00792	PASS
					-20	-0.07	-0.00008	PASS
					-10	-1.56	-0.00189	PASS
					0	1.86	0.00225	PASS
					10	-10.74	-0.01301	PASS
					20	13.1	0.01587	PASS
					30	8.18	0.00991	PASS
					40	6.01	0.00728	PASS
					50	1.33	0.00161	PASS
MCH	VN		-30	-4.69	-0.00561	PASS		
			-20	-4.08	-0.00488	PASS		
			-10	10.24	0.01224	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					0	2.16	0.00258	PASS		
					10	-2.53	-0.00302	PASS		
					20	2.42	0.00289	PASS		
					30	0.6	0.00072	PASS		
					40	-5.19	-0.0062	PASS		
					50	-4.58	-0.00548	PASS		
			HCH	VN	-30	7.11	0.00839	PASS		
					-20	-2.03	-0.0024	PASS		
					-10	-1.62	-0.00191	PASS		
					0	1.24	0.00146	PASS		
					10	-0.63	-0.00074	PASS		
					20	-3.22	-0.0038	PASS		
			LCH	VN	30	0.47	0.00055	PASS		
					40	6.87	0.00811	PASS		
					50	-2.09	-0.00247	PASS		
					-30	8.73	0.01056	PASS		
					-20	14.25	0.01724	PASS		
					-10	0.73	0.00088	PASS		
		5	MCH	VN	0	0.46	0.00056	PASS		
					10	-0.63	-0.00076	PASS		
					20	-0.07	-0.00008	PASS		
					30	-0.8	-0.00097	PASS		
					40	-3.12	-0.00377	PASS		
					50	0.92	0.00111	PASS		
			HCH	VN	-30	-2.89	-0.00345	PASS		
					-20	-2.02	-0.00241	PASS		
					-10	-1.33	-0.00159	PASS		
					0	-2.56	-0.00306	PASS		
					10	2.52	0.00301	PASS		
					20	-2.62	-0.00313	PASS		
							30	-2.22	-0.00265	PASS
							40	1.22	0.00146	PASS
							50	3.99	0.00477	PASS
							-30	0.74	0.00087	PASS
							-20	-3.55	-0.00419	PASS
							-10	0.57	0.00067	PASS
					0	-2.06	-0.00243	PASS		
					10	2.33	0.00275	PASS		
					20	-0.72	-0.00085	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					30	1.47	0.00174	PASS			
					40	-2.45	-0.00289	PASS			
					50	-2.19	-0.00259	PASS			
		10		LCH	VN	-30	-1.76	-0.00212	PASS		
						-20	-5.72	-0.0069	PASS		
						-10	0.63	0.00076	PASS		
						0	-1.72	-0.00207	PASS		
						10	6.08	0.00733	PASS		
						20	-1.89	-0.00228	PASS		
						30	1.8	0.00217	PASS		
						40	1.66	0.002	PASS		
						50	-0.36	-0.00043	PASS		
						MCH	VN	-30	-3.06	-0.00366	PASS
								-20	4.72	0.00564	PASS
								-10	4.39	0.00525	PASS
								0	2.9	0.00343	PASS
								10	3.81	0.0045	PASS
								20	-4.92	-0.00581	PASS
								30	-3.98	-0.0048	PASS
								40	0.94	0.00113	PASS
								50	-3.45	-0.00416	PASS
				HCH	VN	-30	3.91	0.00467	PASS		
						-20	-4.68	-0.00559	PASS		
						-10	7.77	0.00929	PASS		
						0	-1.34	-0.00159	PASS		
						10	-1.24	-0.00147	PASS		
						20	-0.9	-0.00107	PASS		
30	0.29					0.00034	PASS				
40	0.11					0.00013	PASS				
50	-1.79					-0.00217	PASS				

END