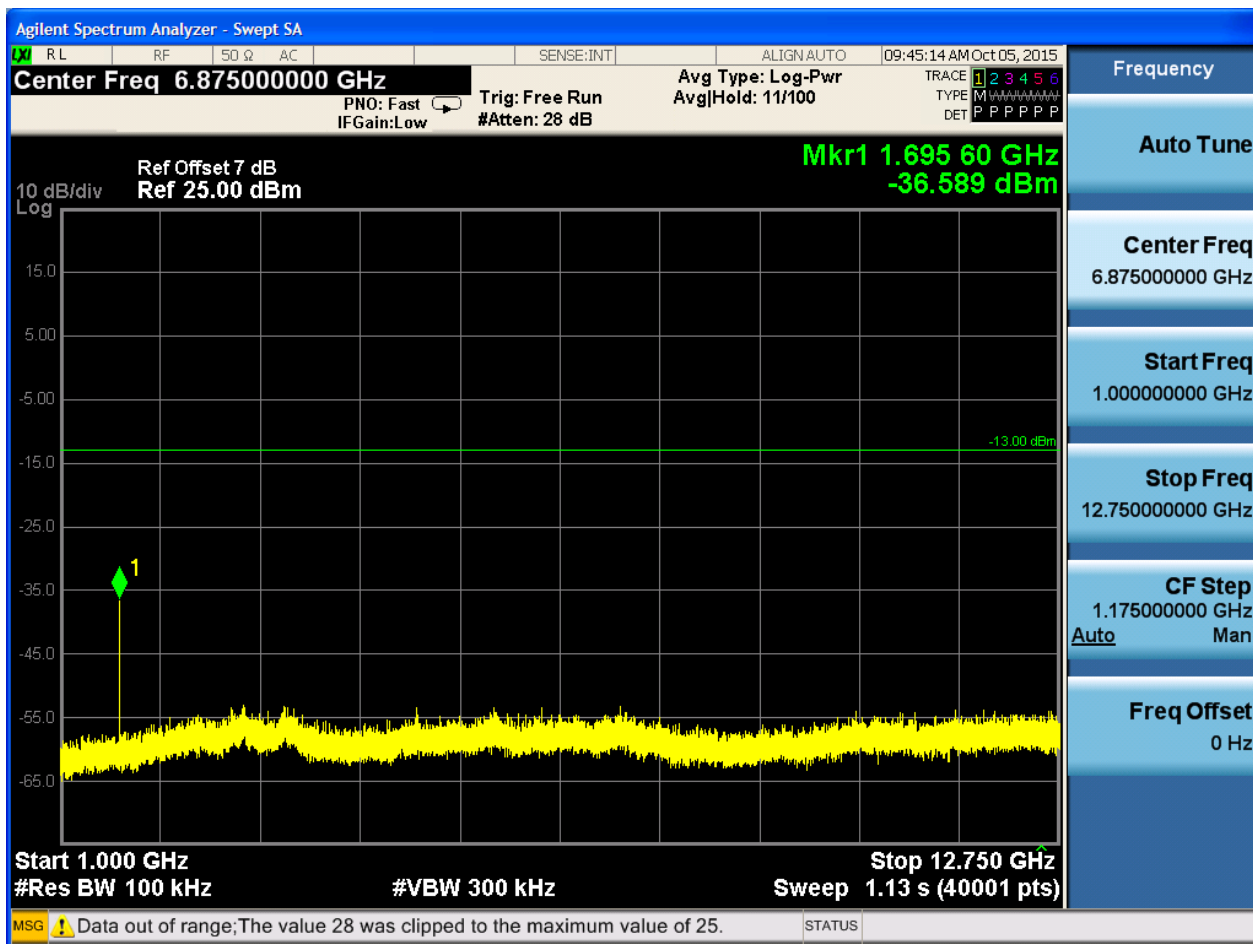


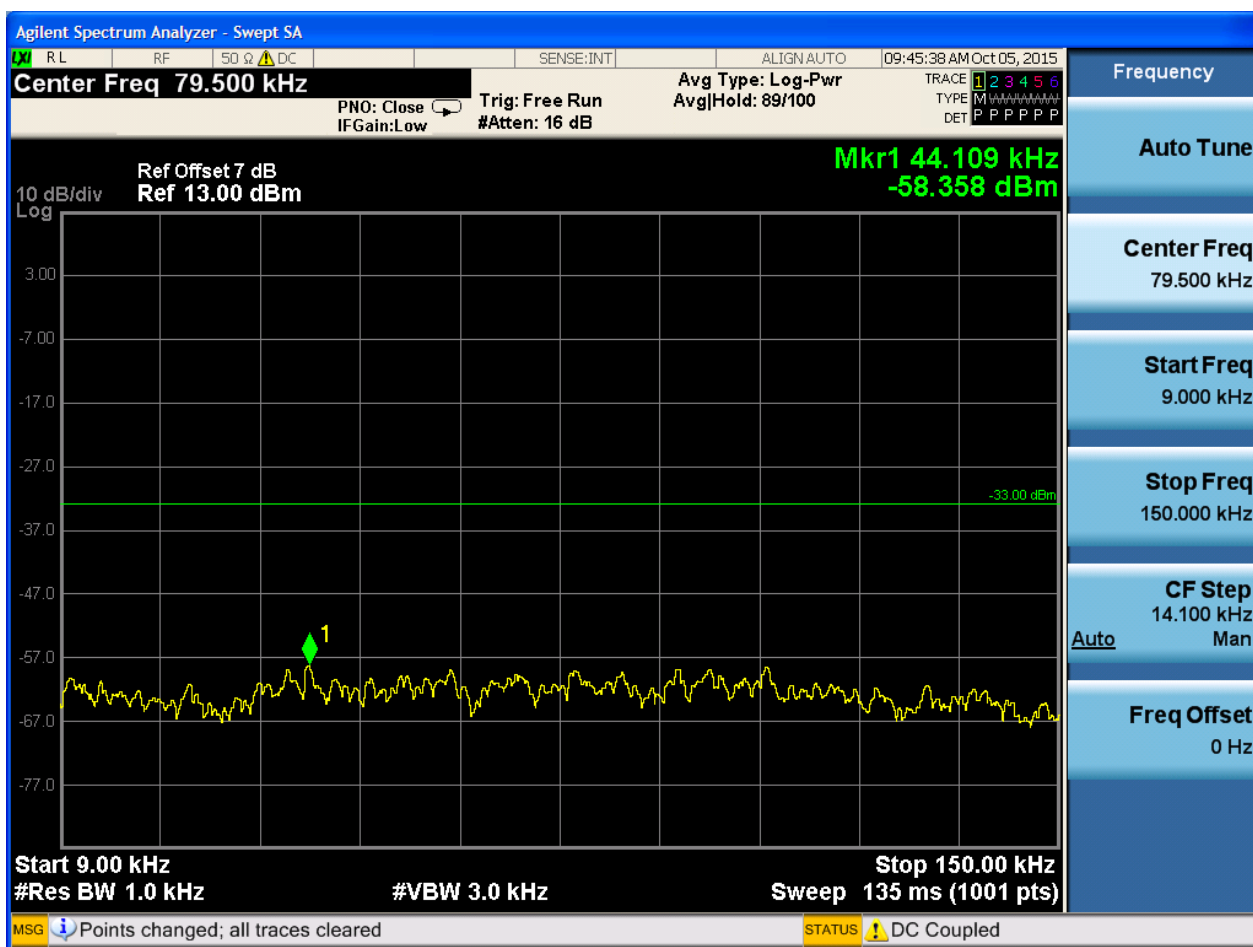


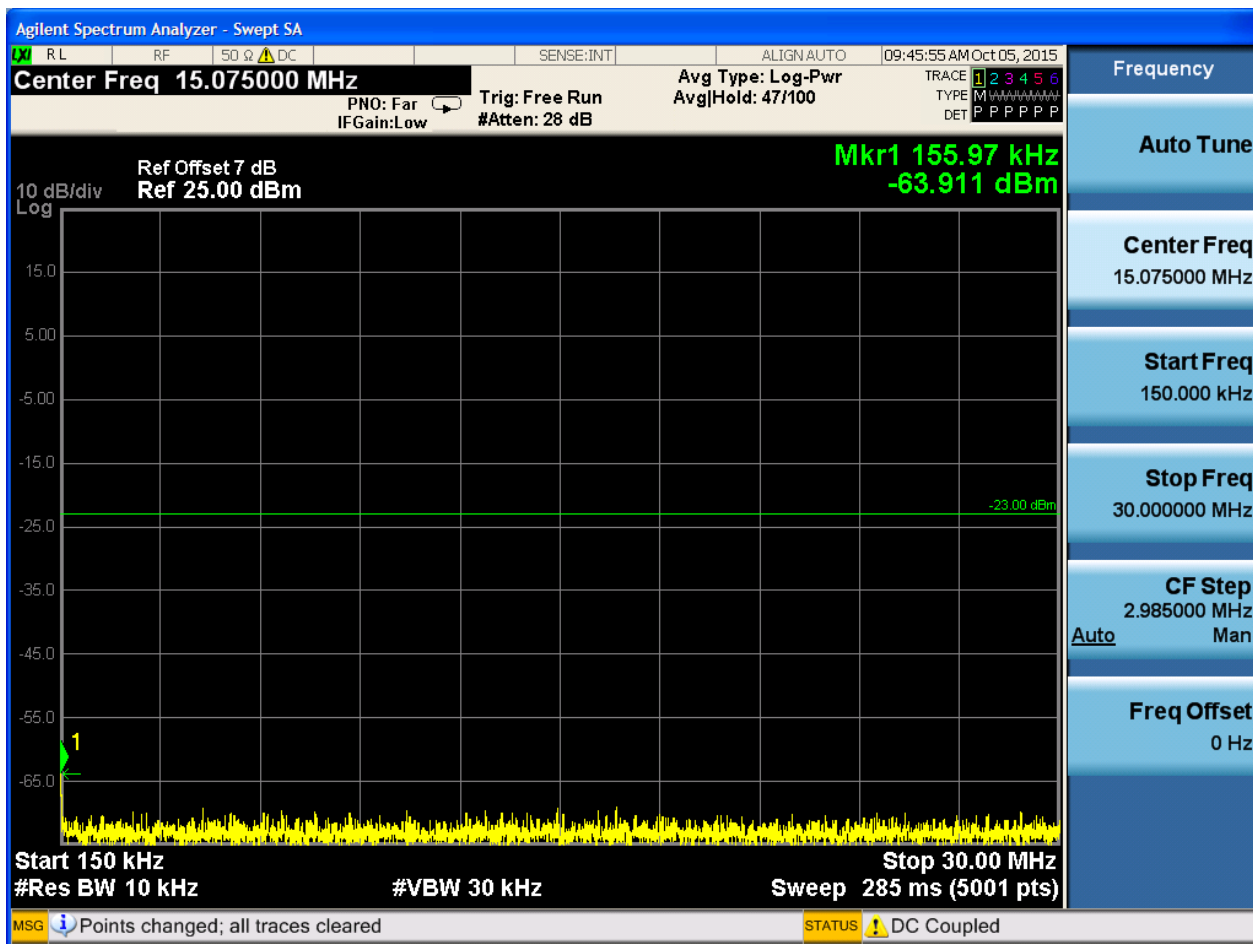


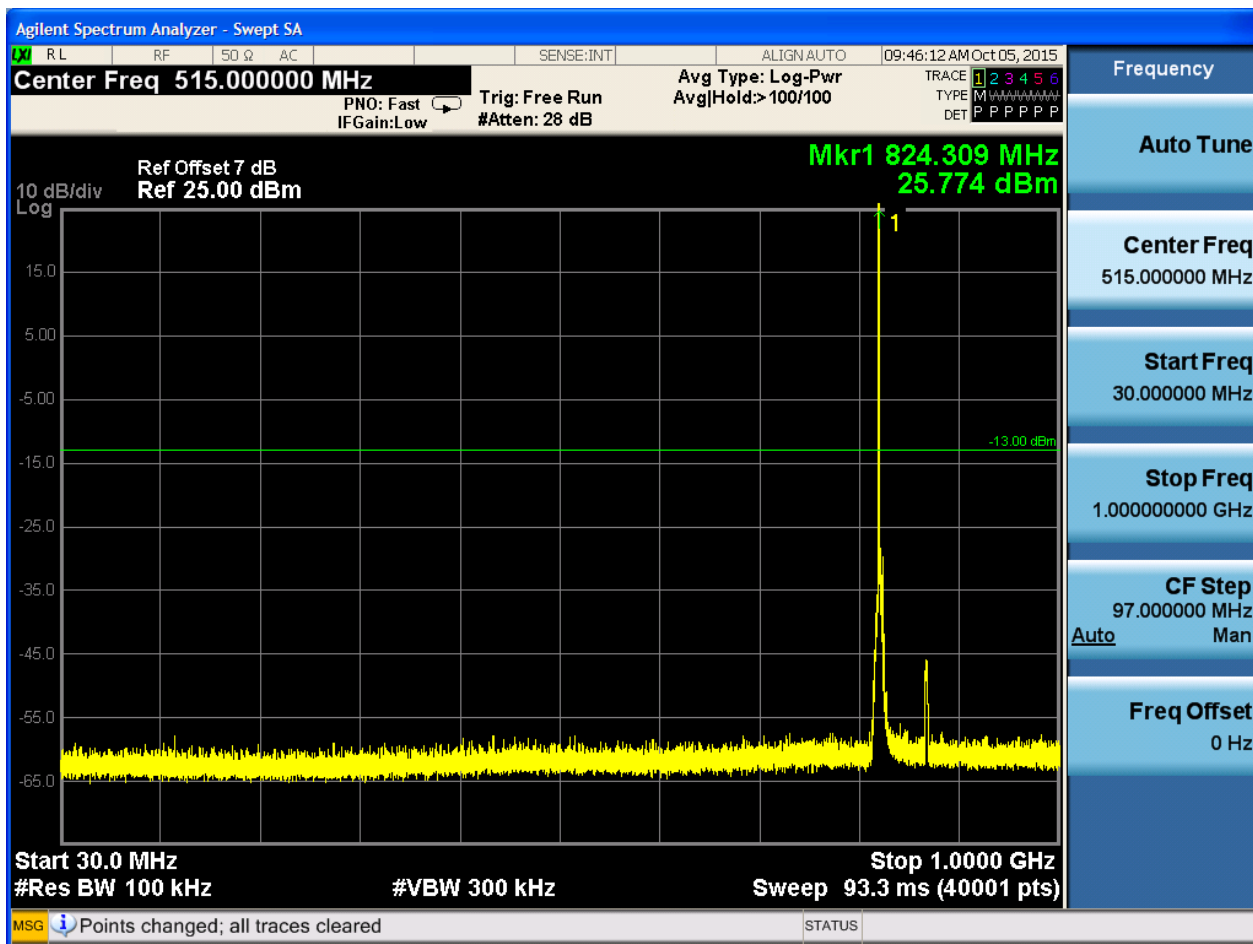
6.1.1.1.2 Test Bandwidth = 3

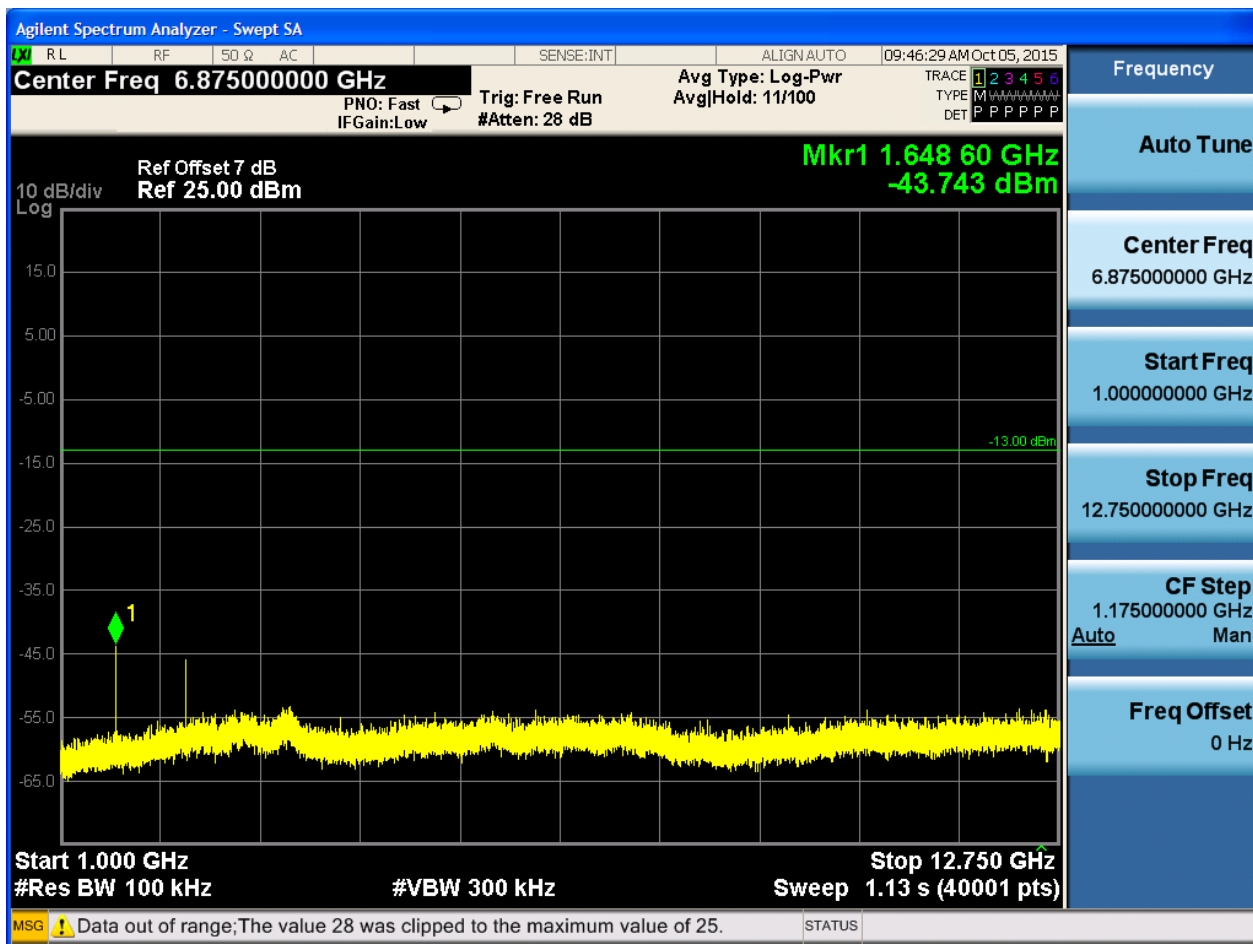
6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0





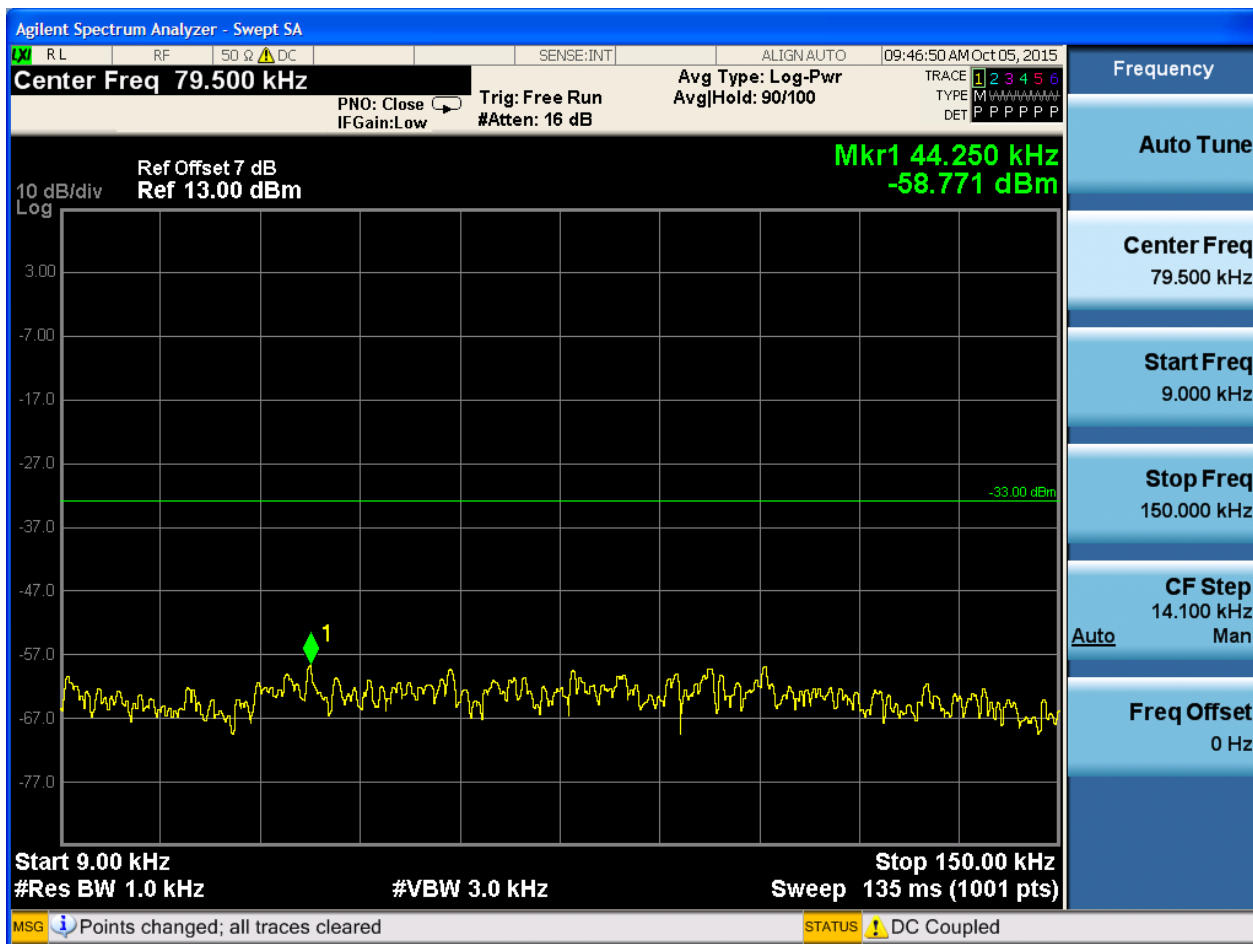




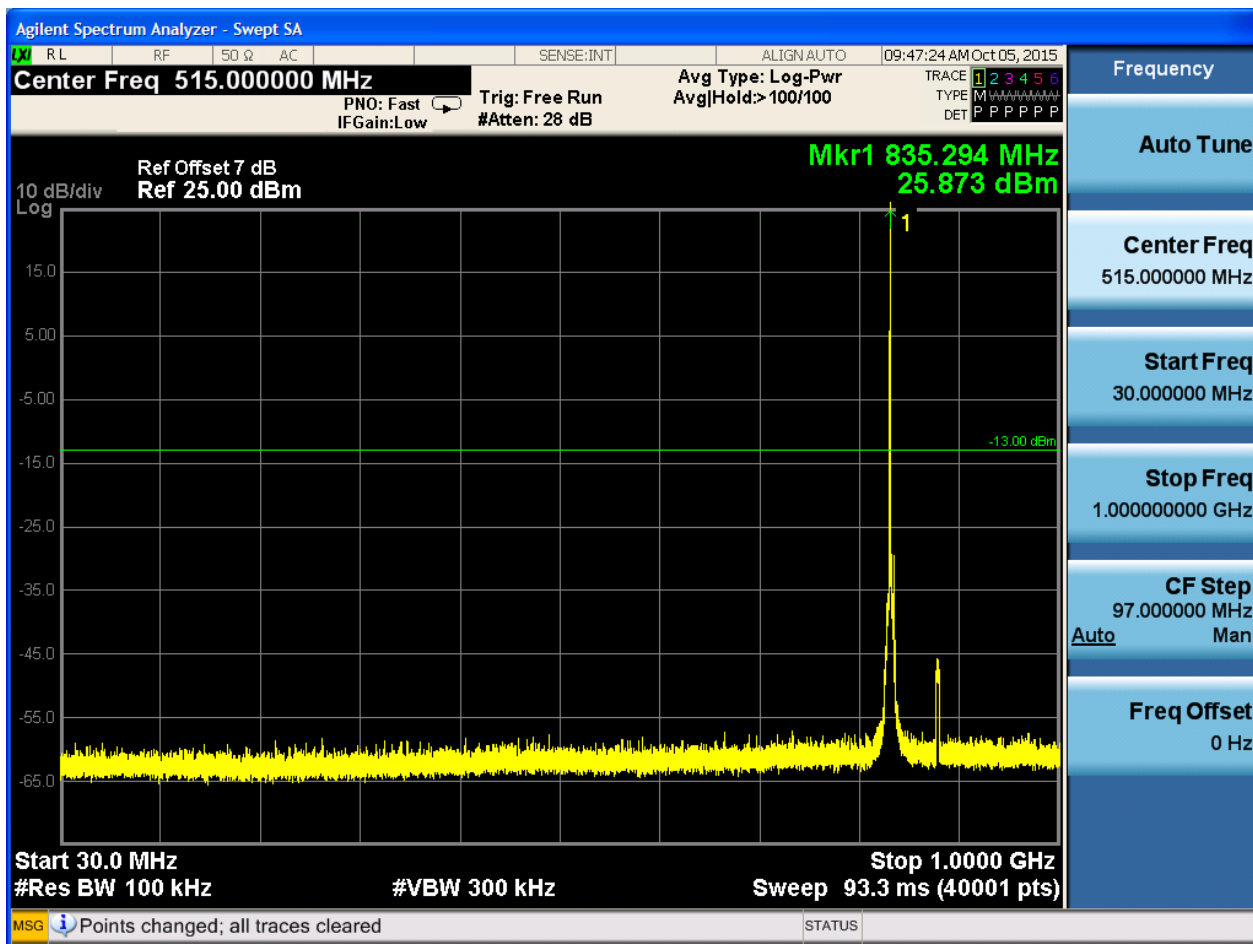


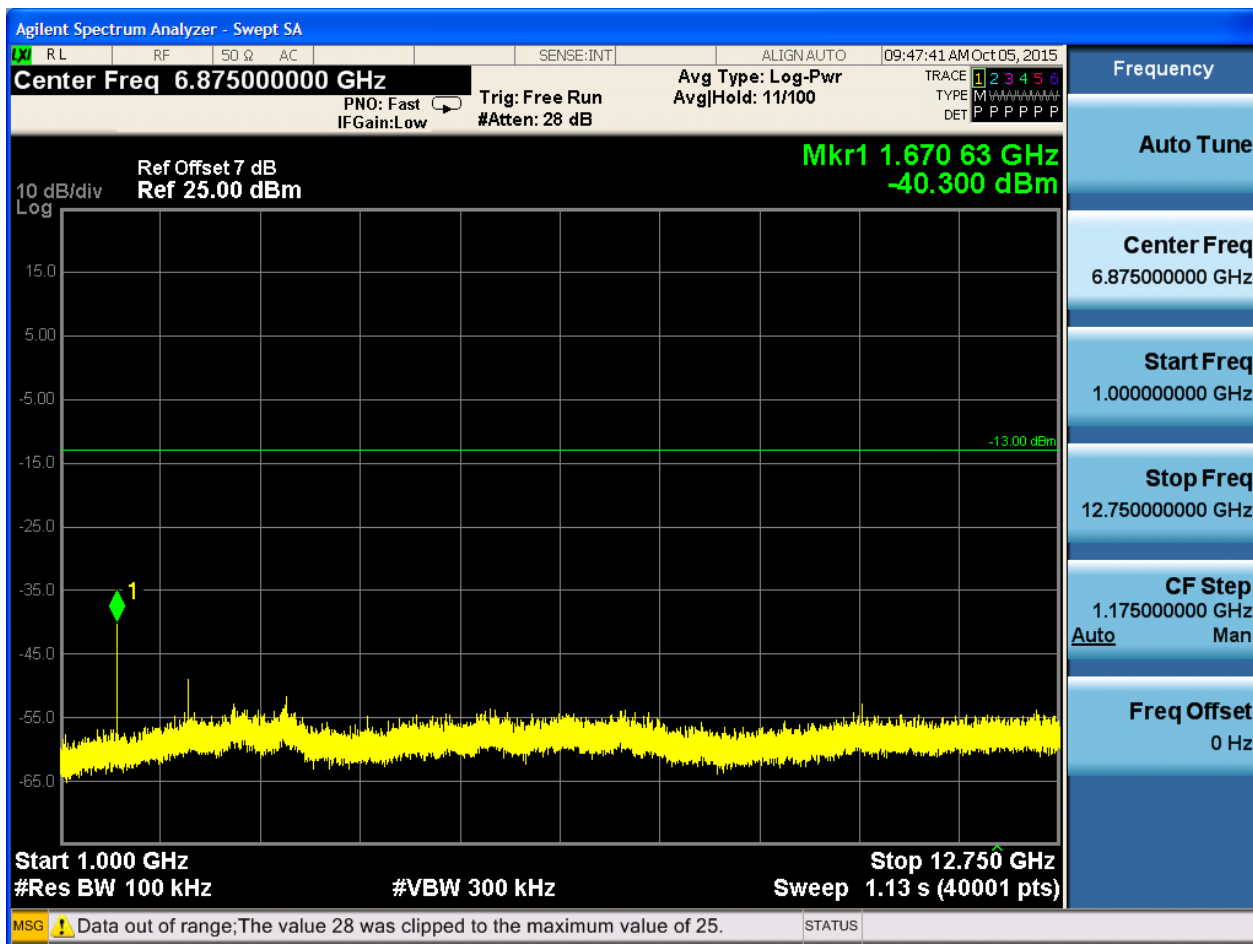
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



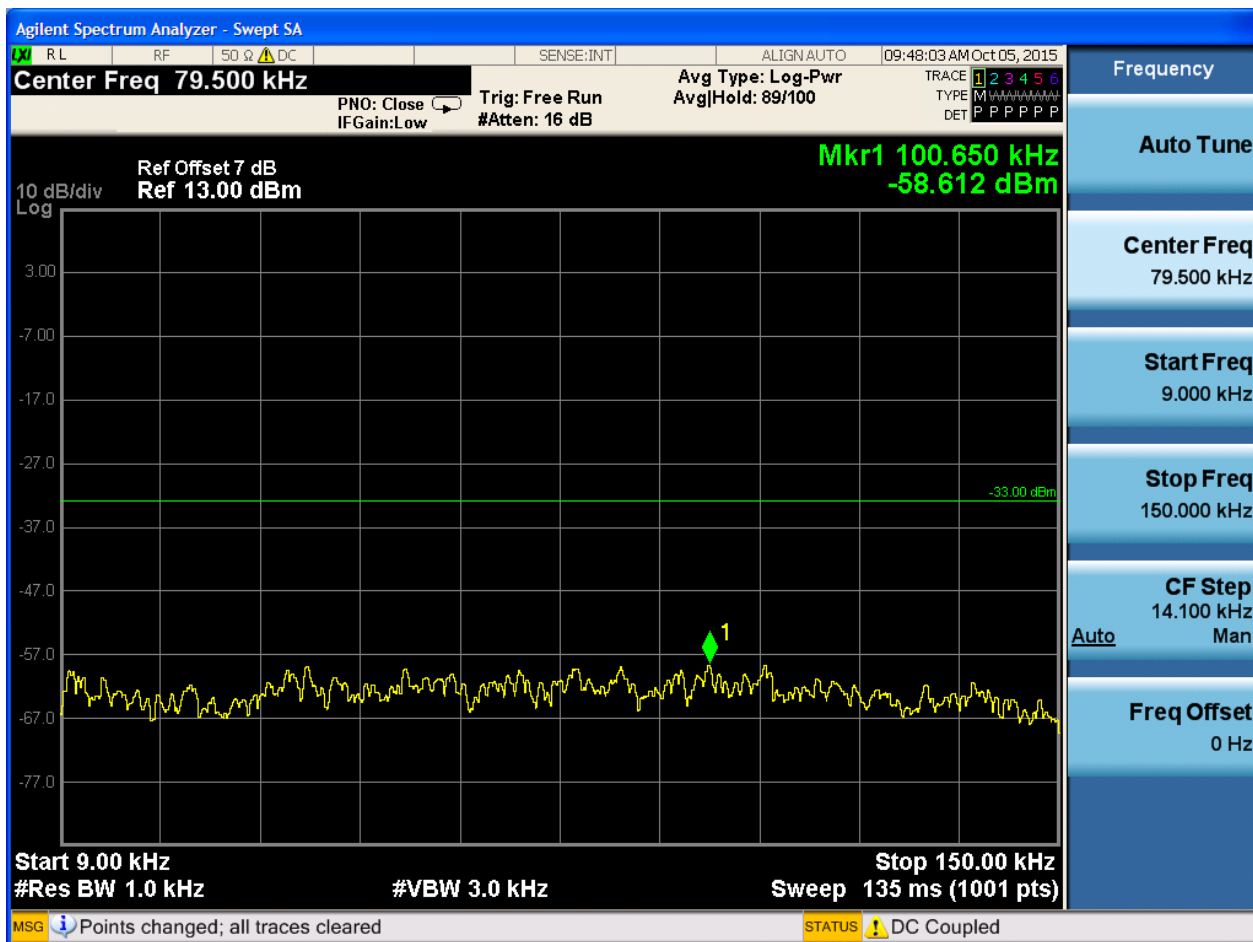


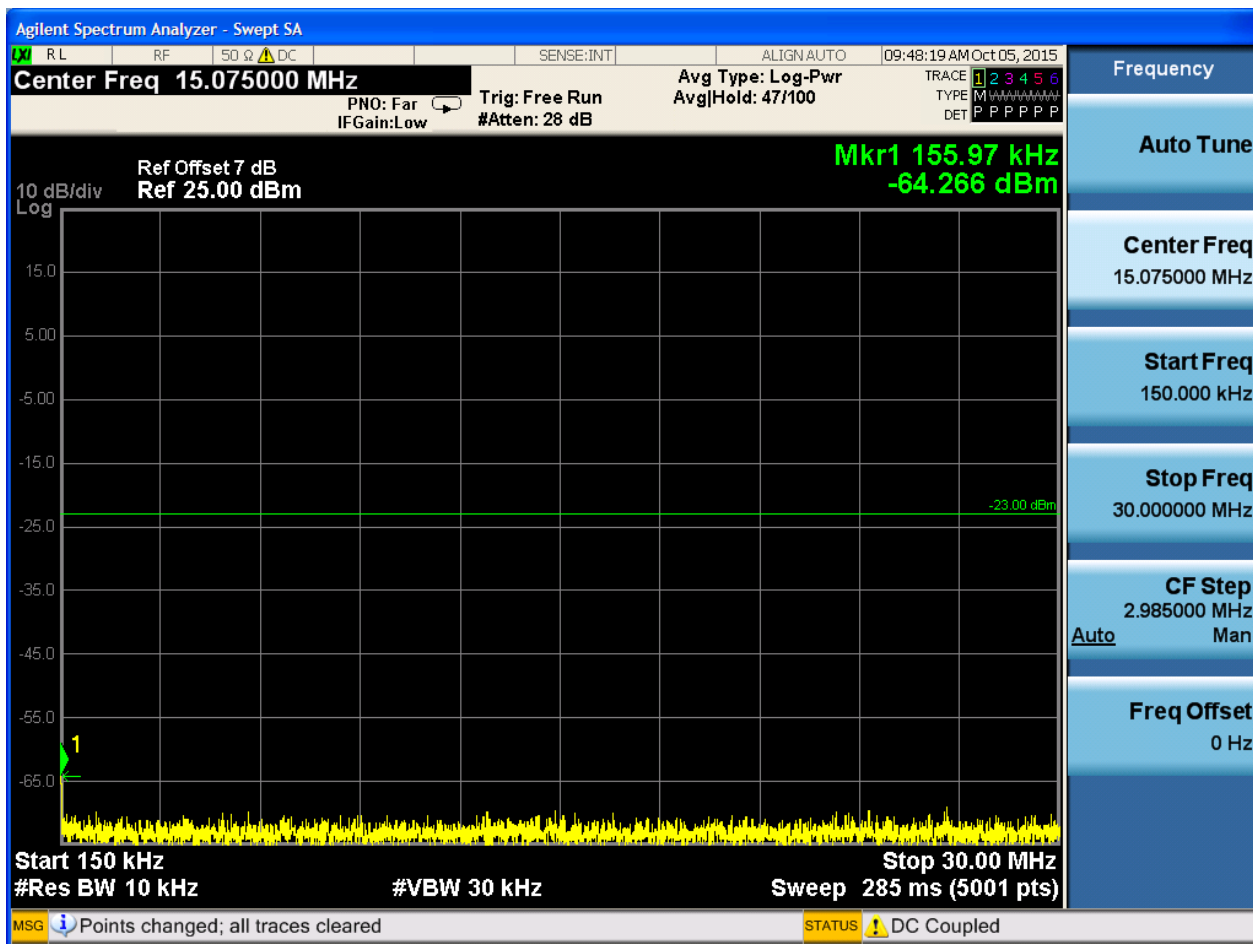


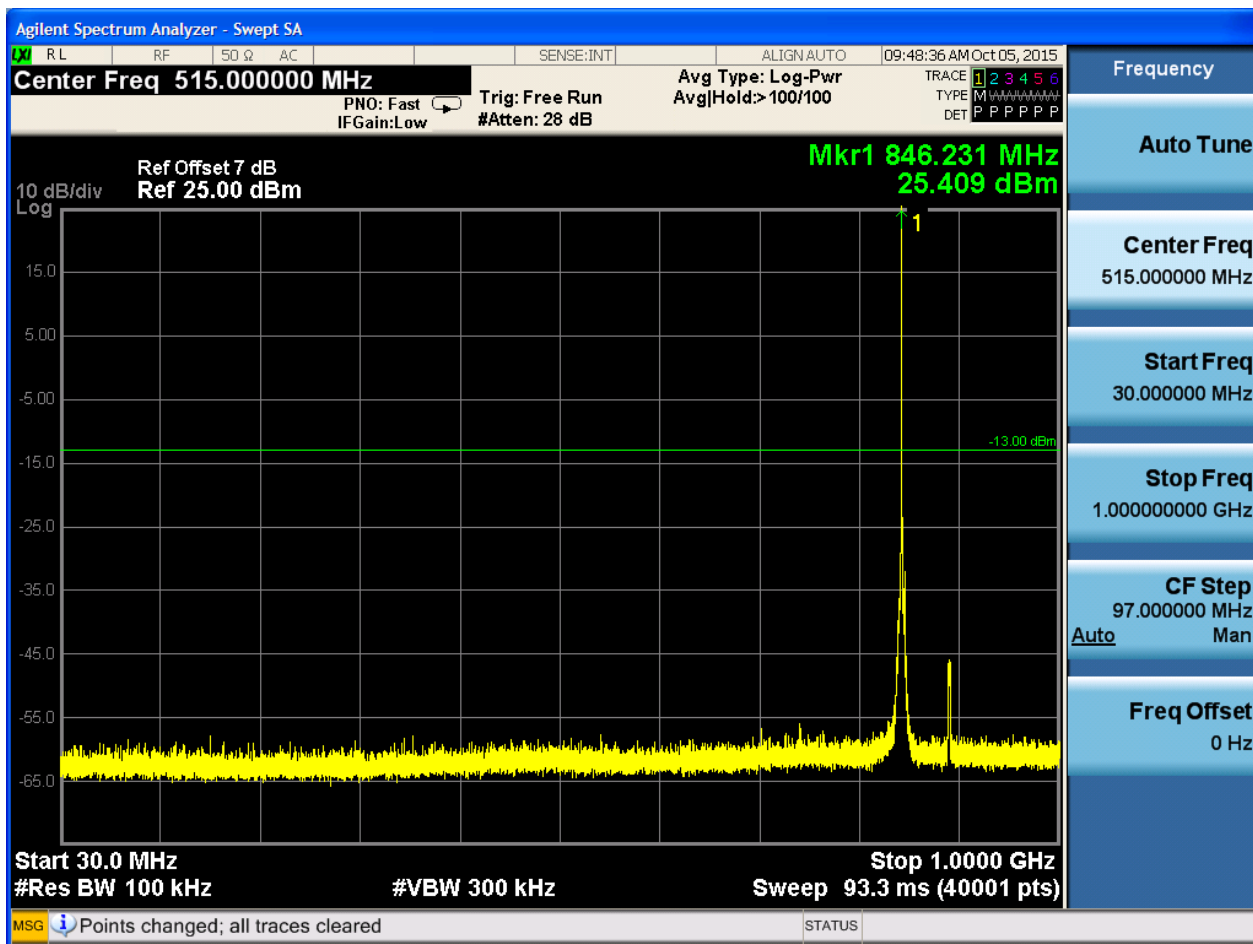


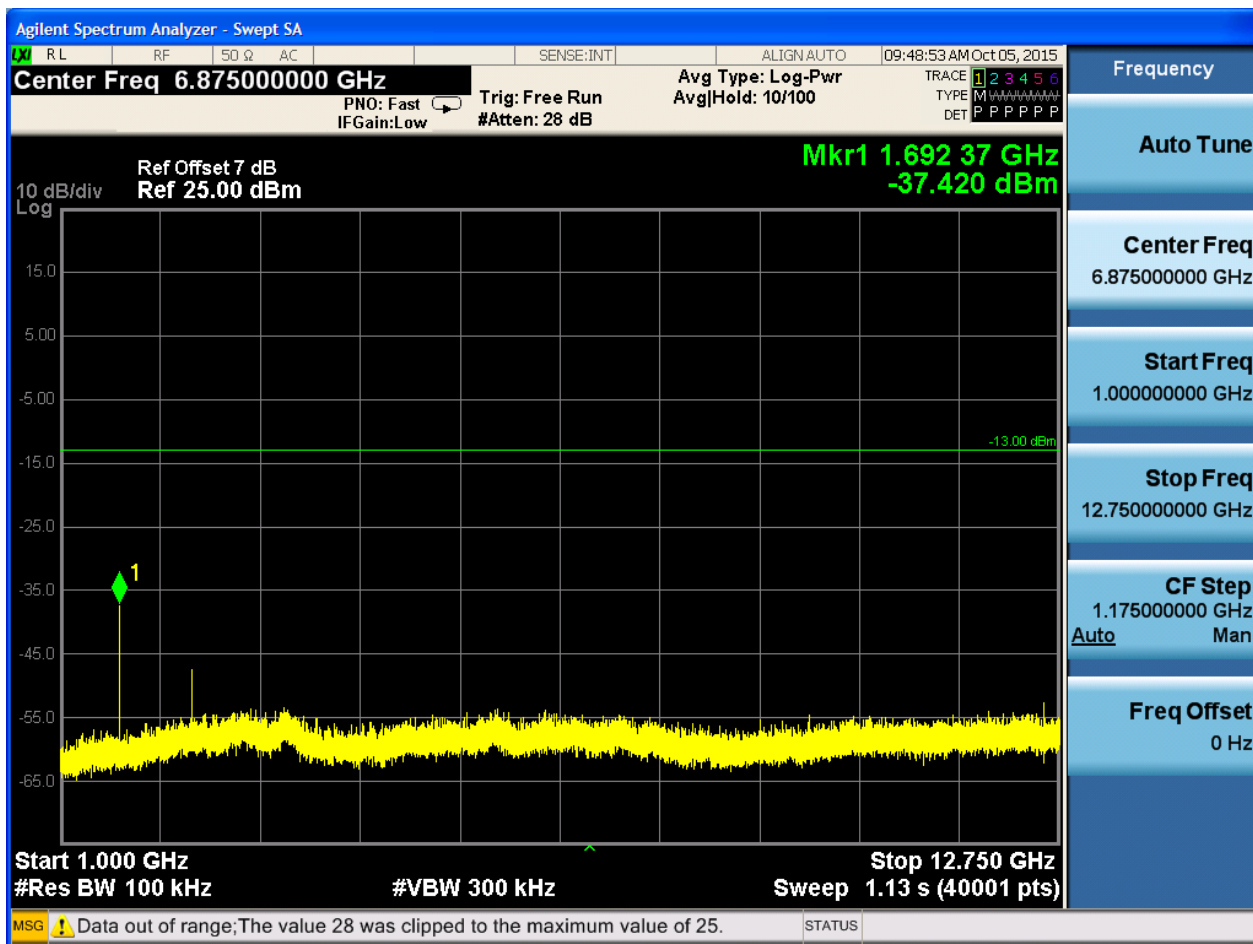
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





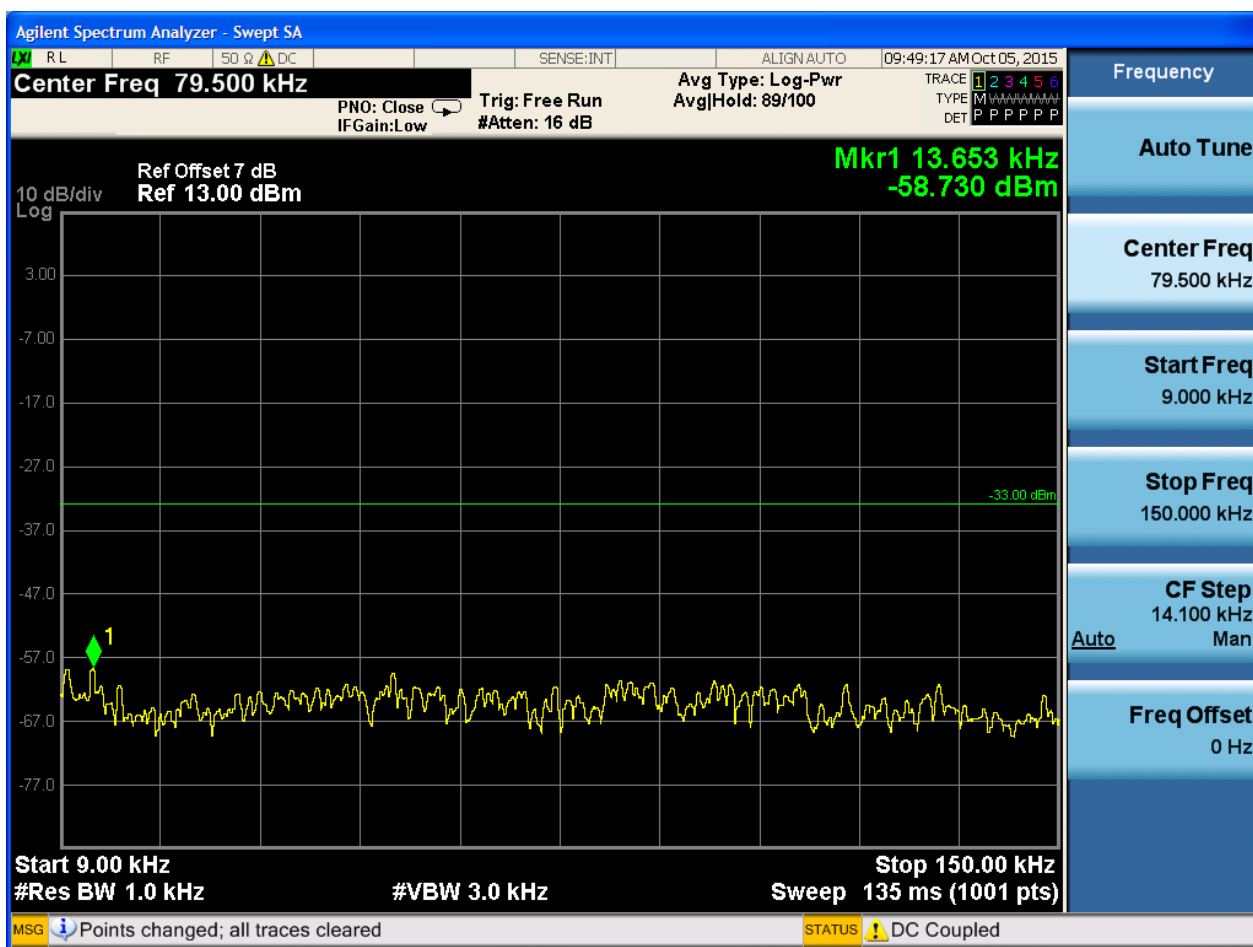


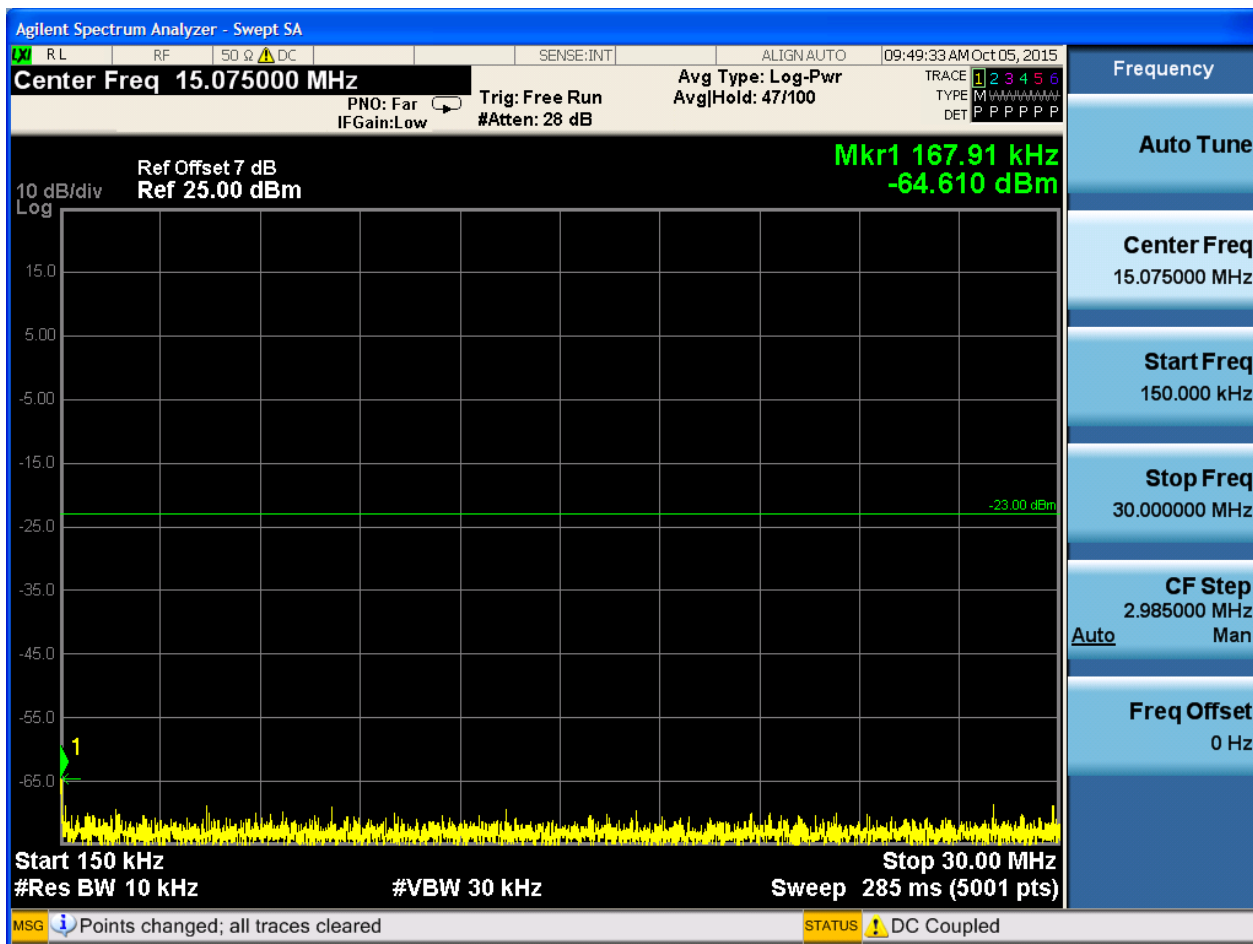


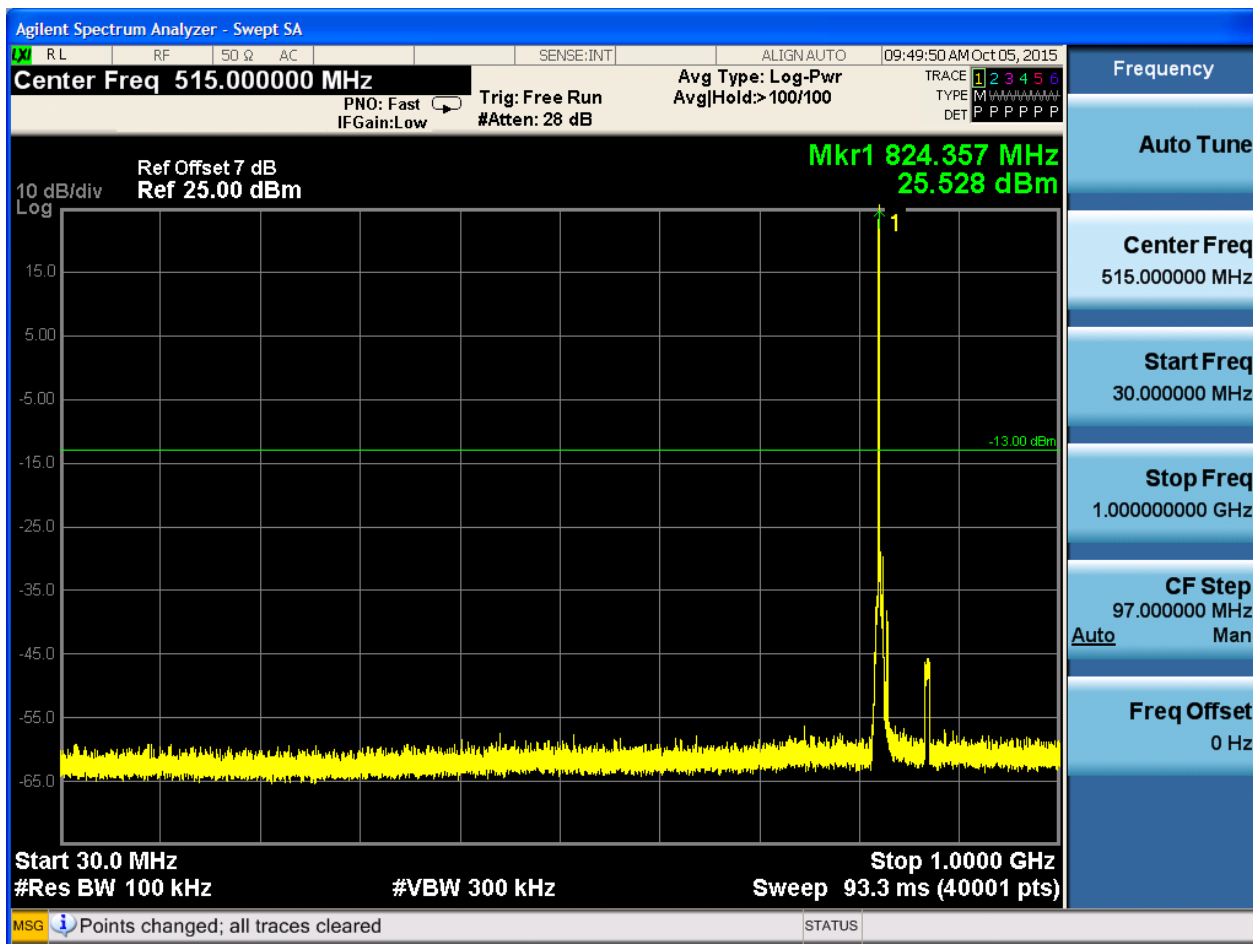
6.1.1.1.3 Test Bandwidth = 5

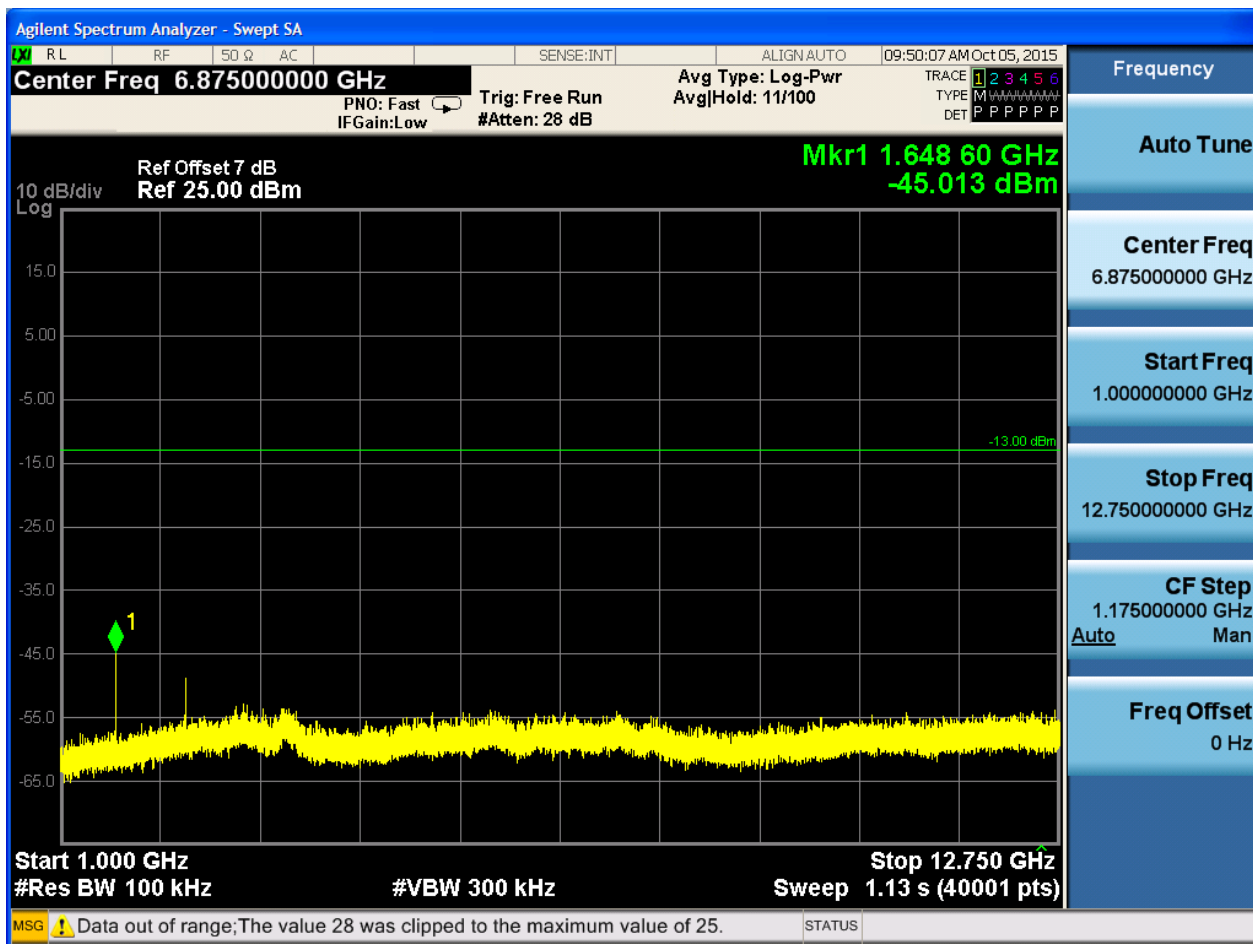
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



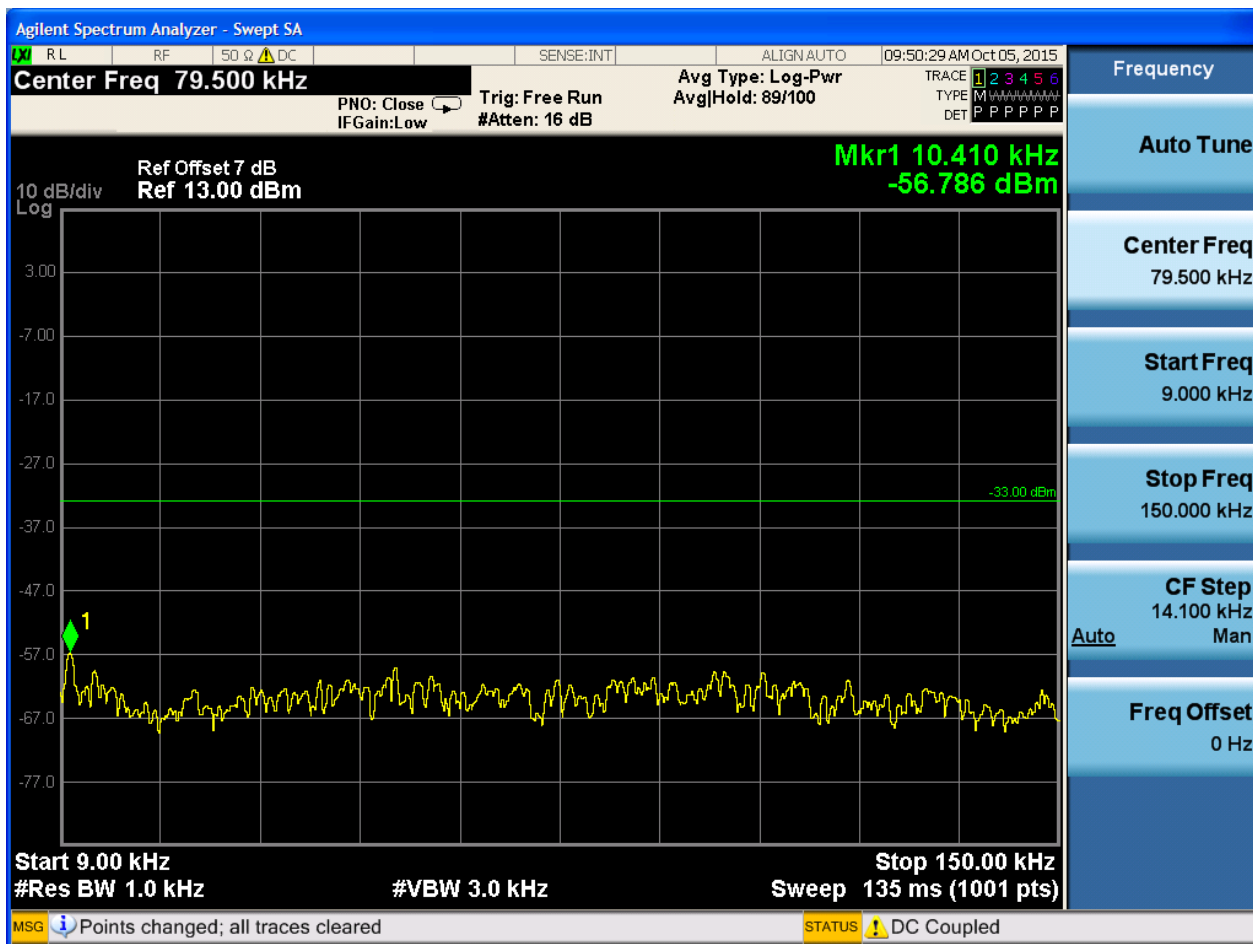


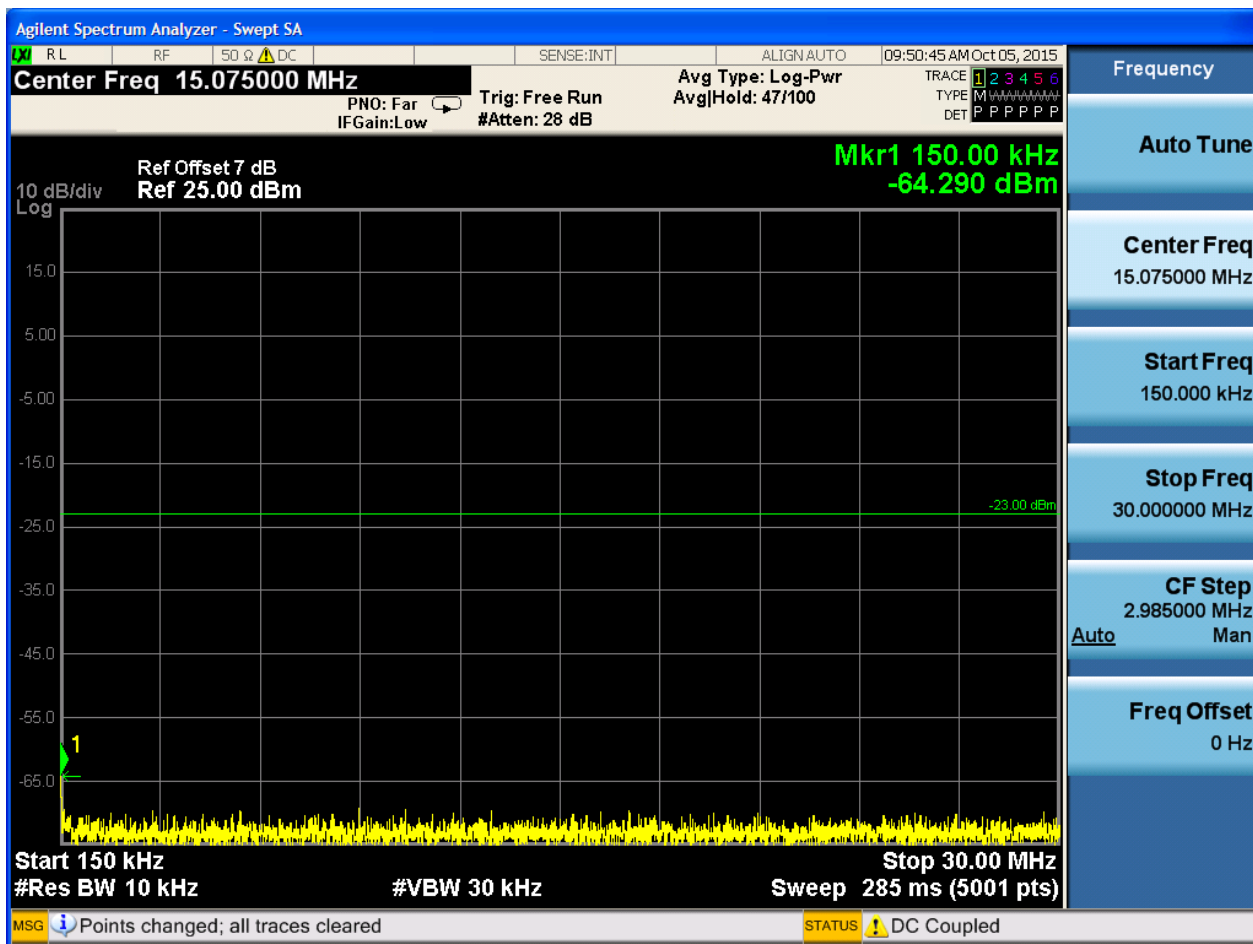


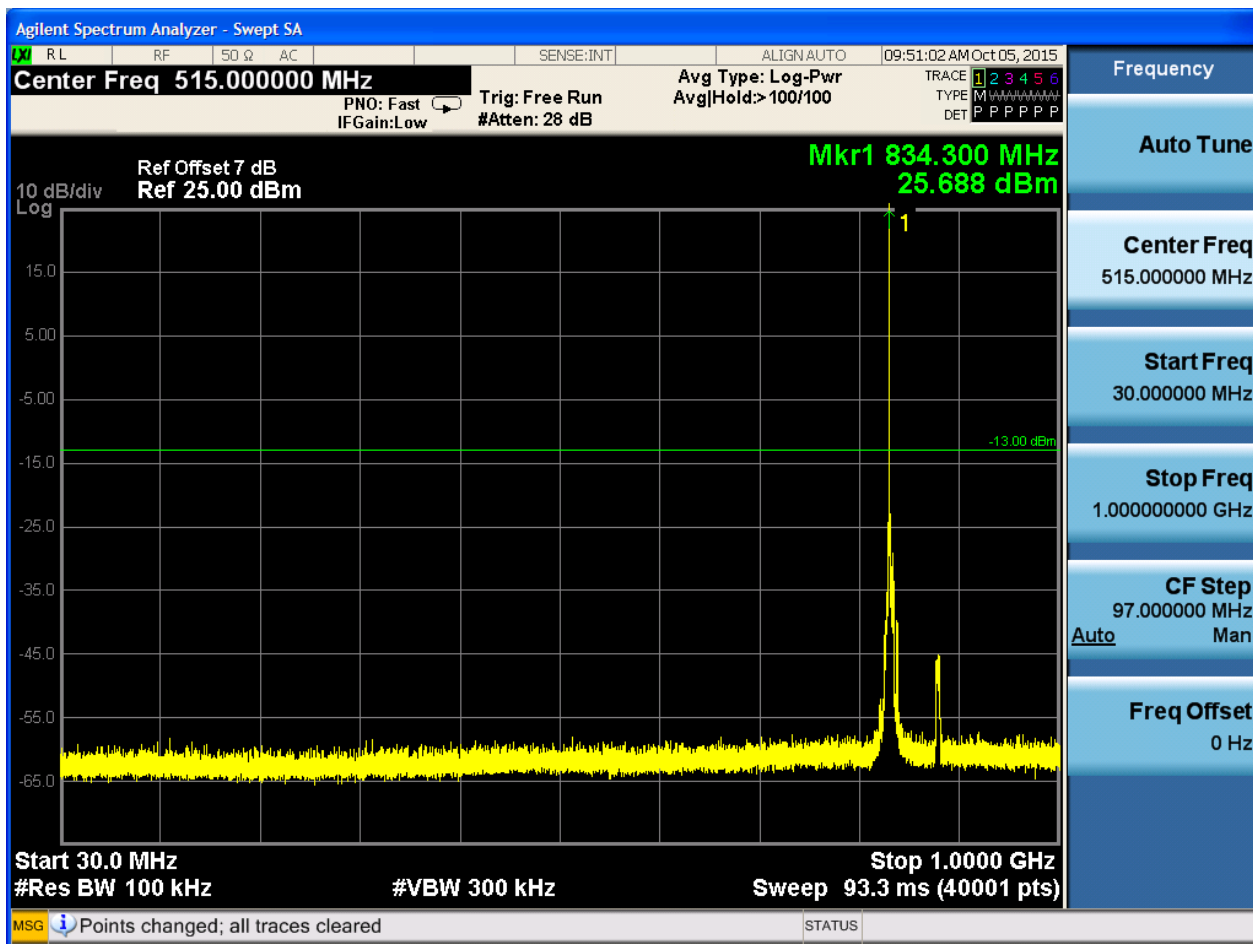


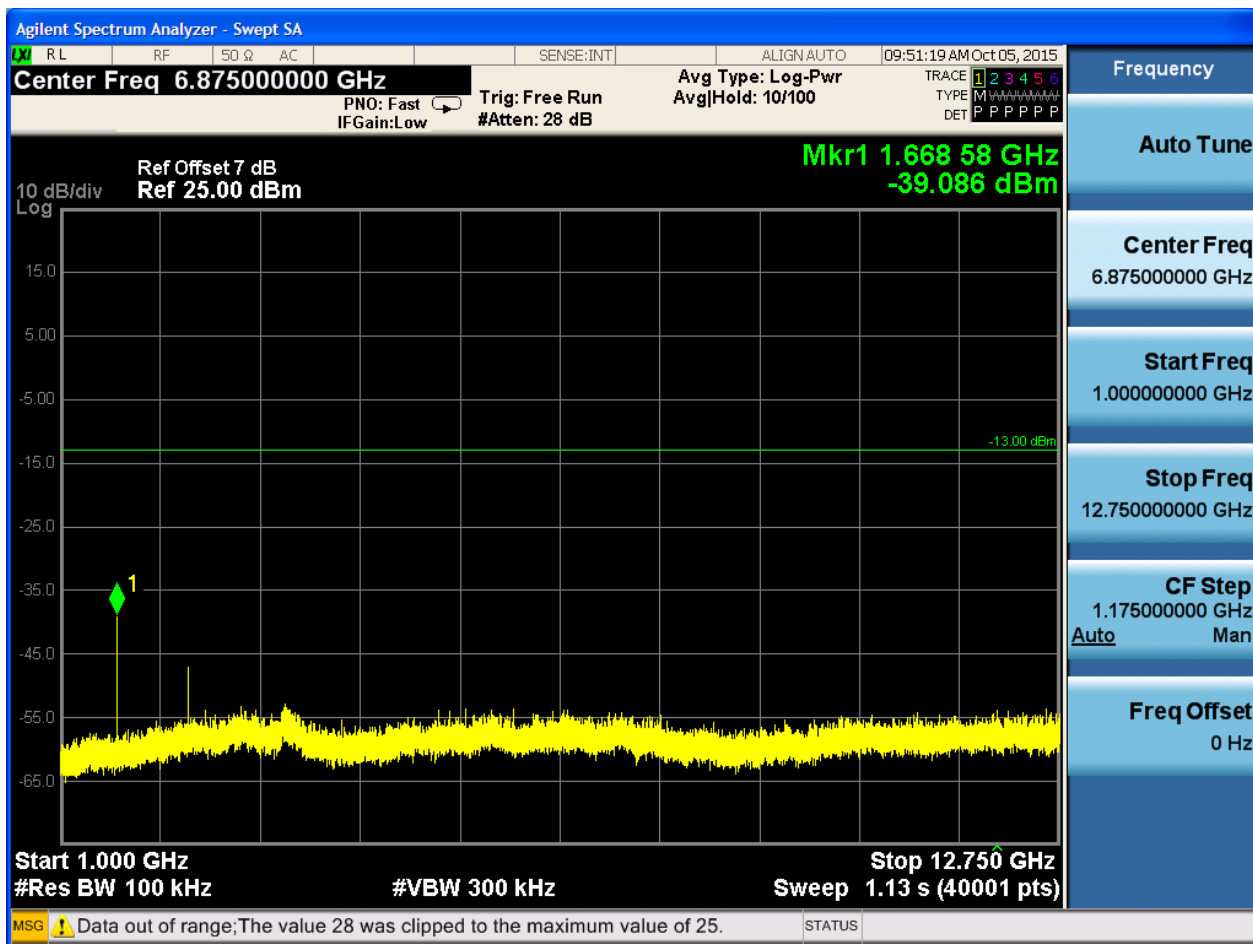
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



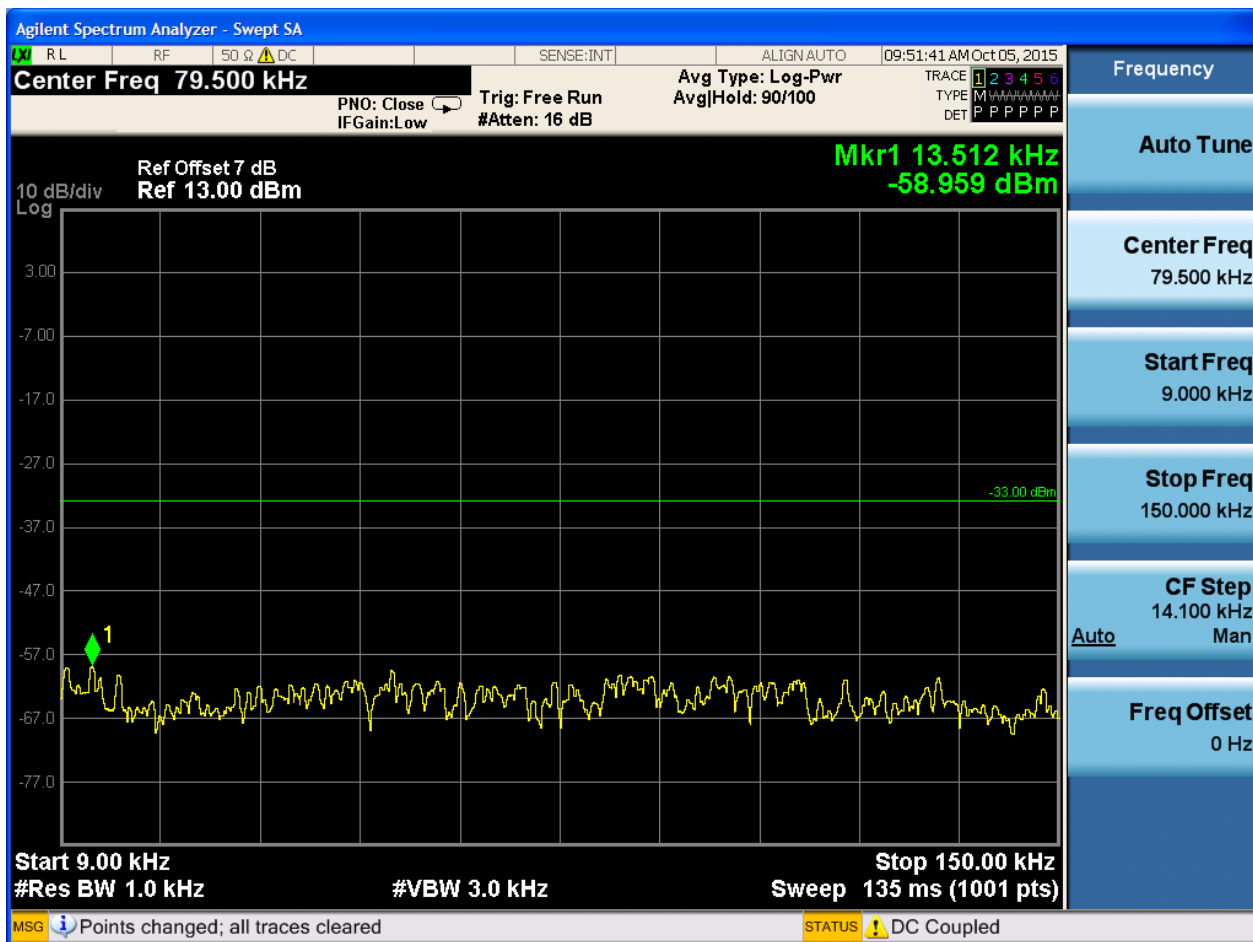




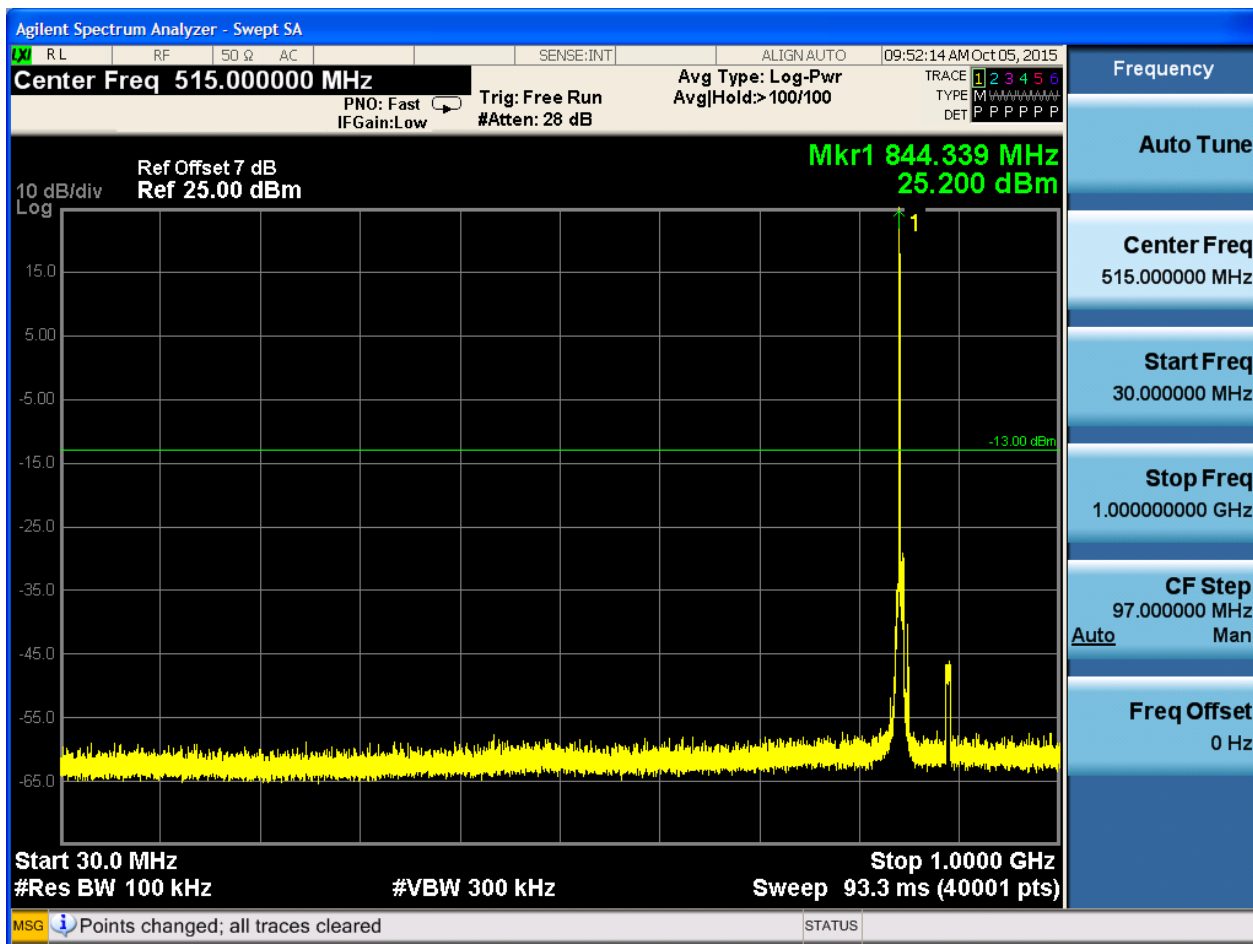


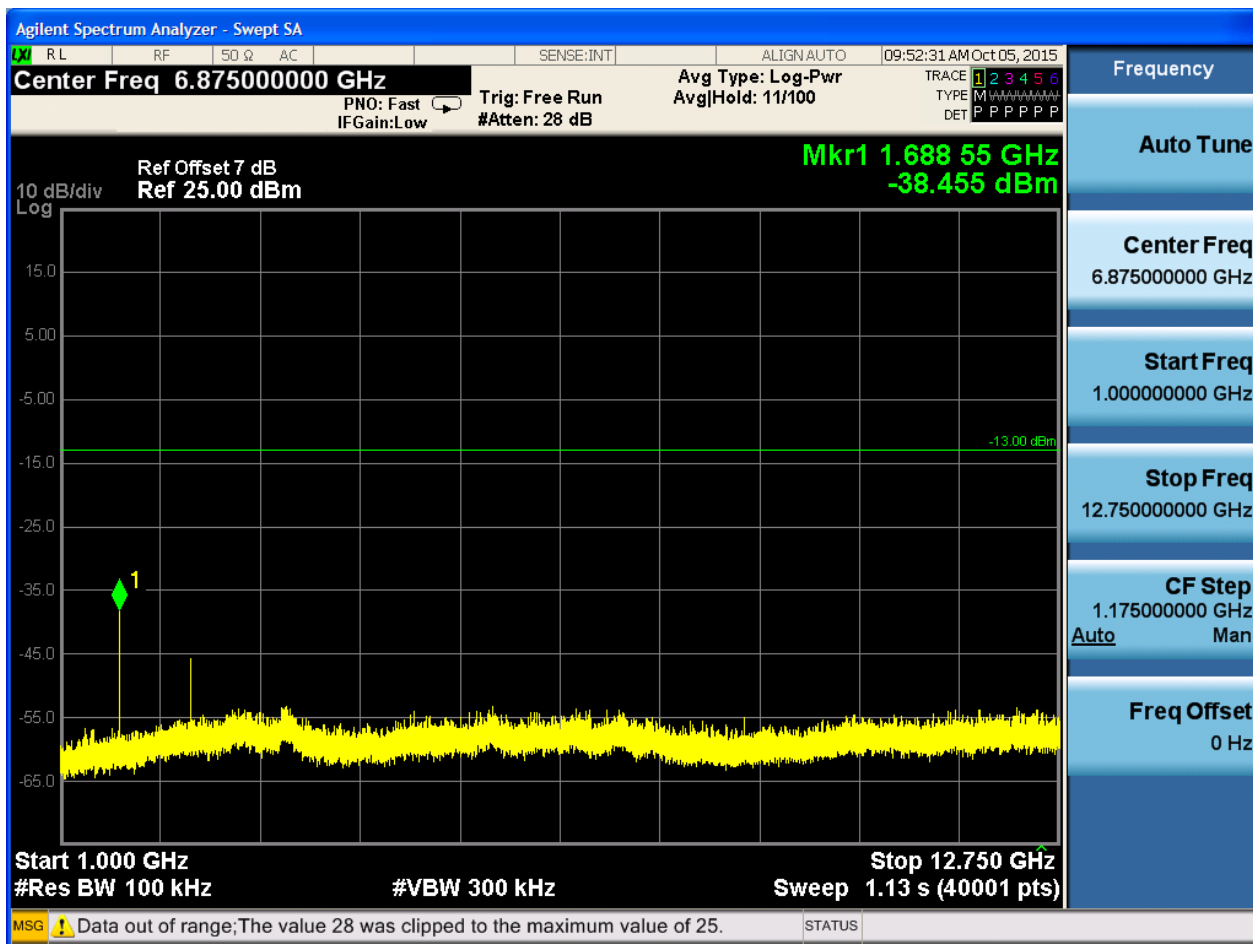
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







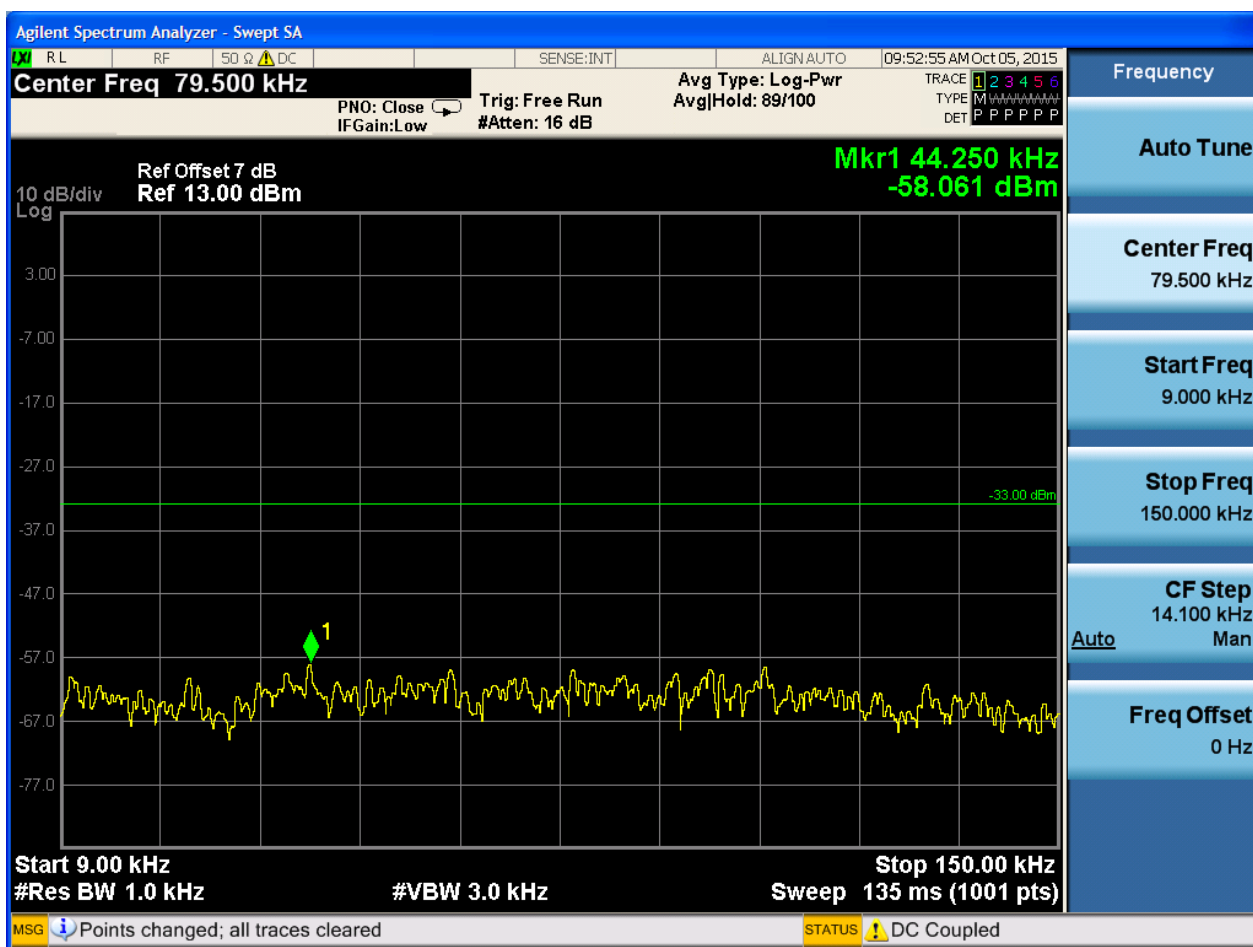


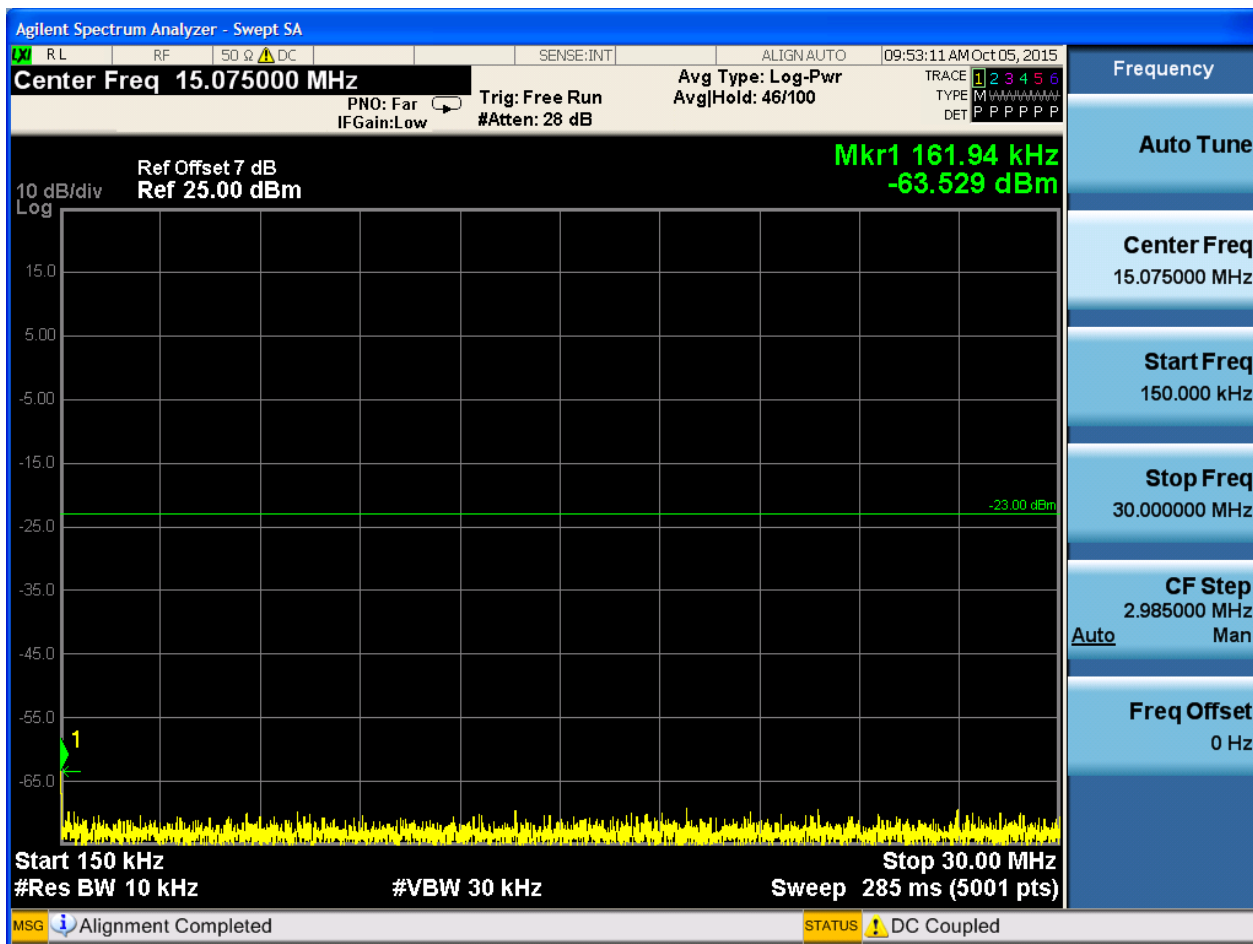


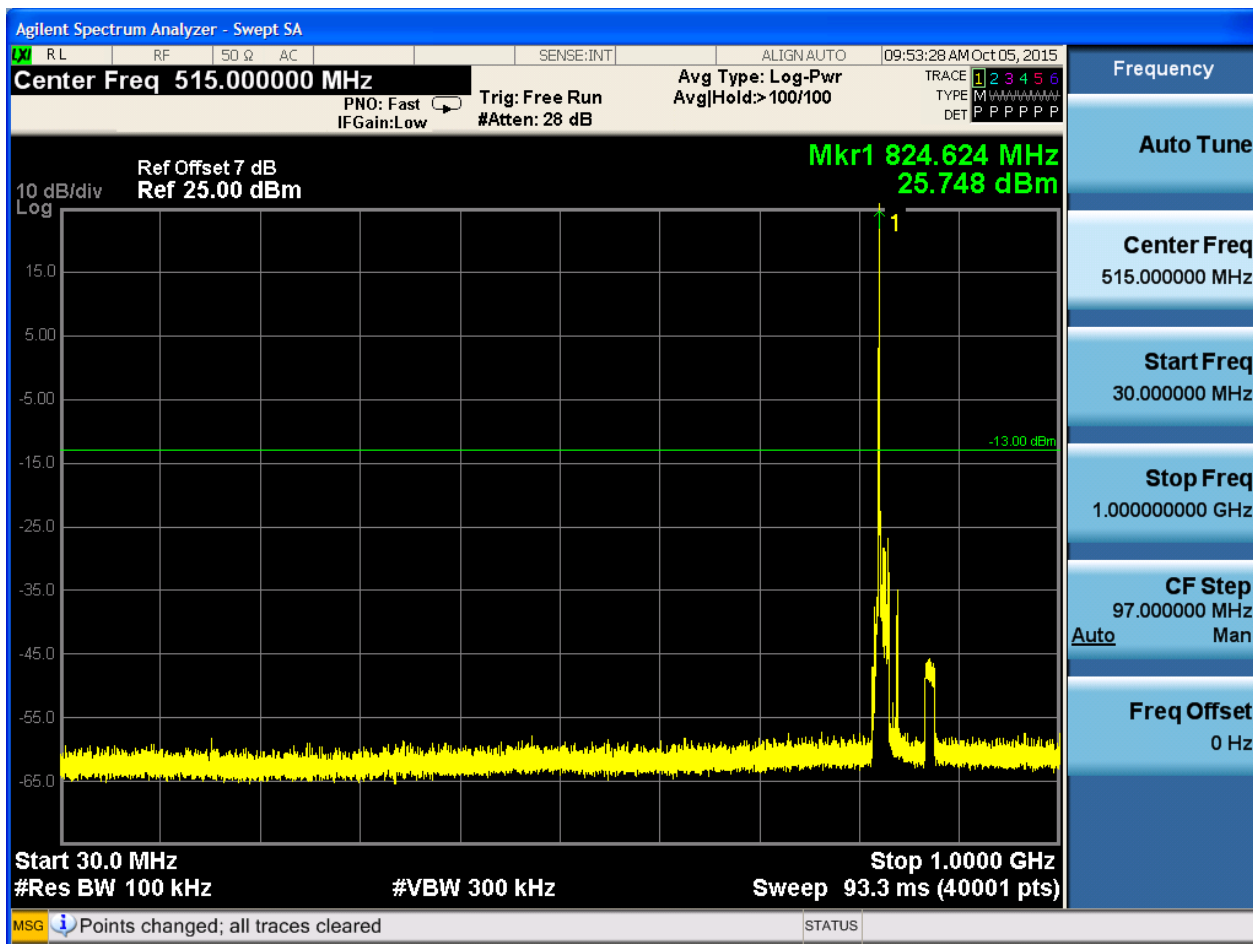
6.1.1.1.4 Test Bandwidth = 10

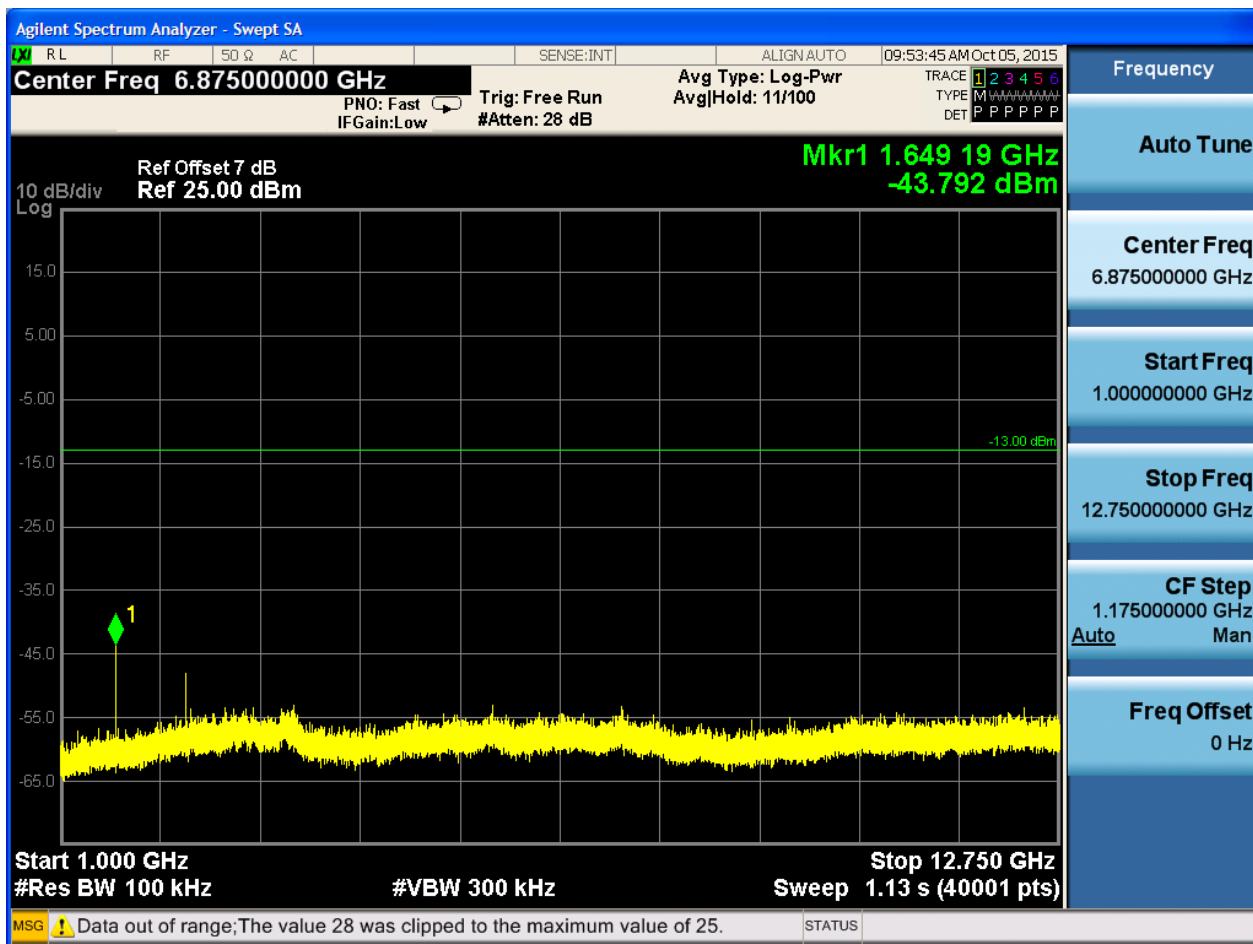
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



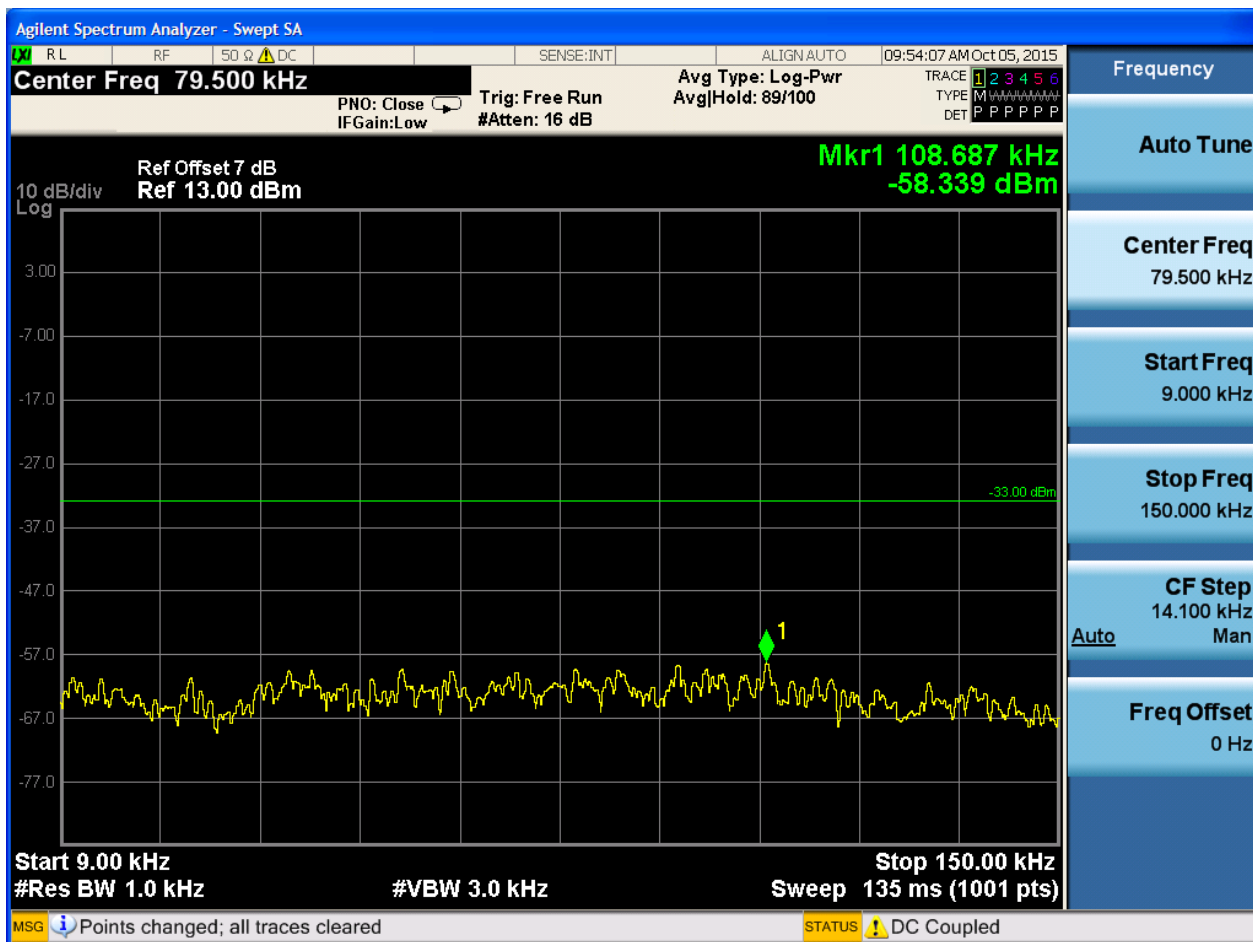




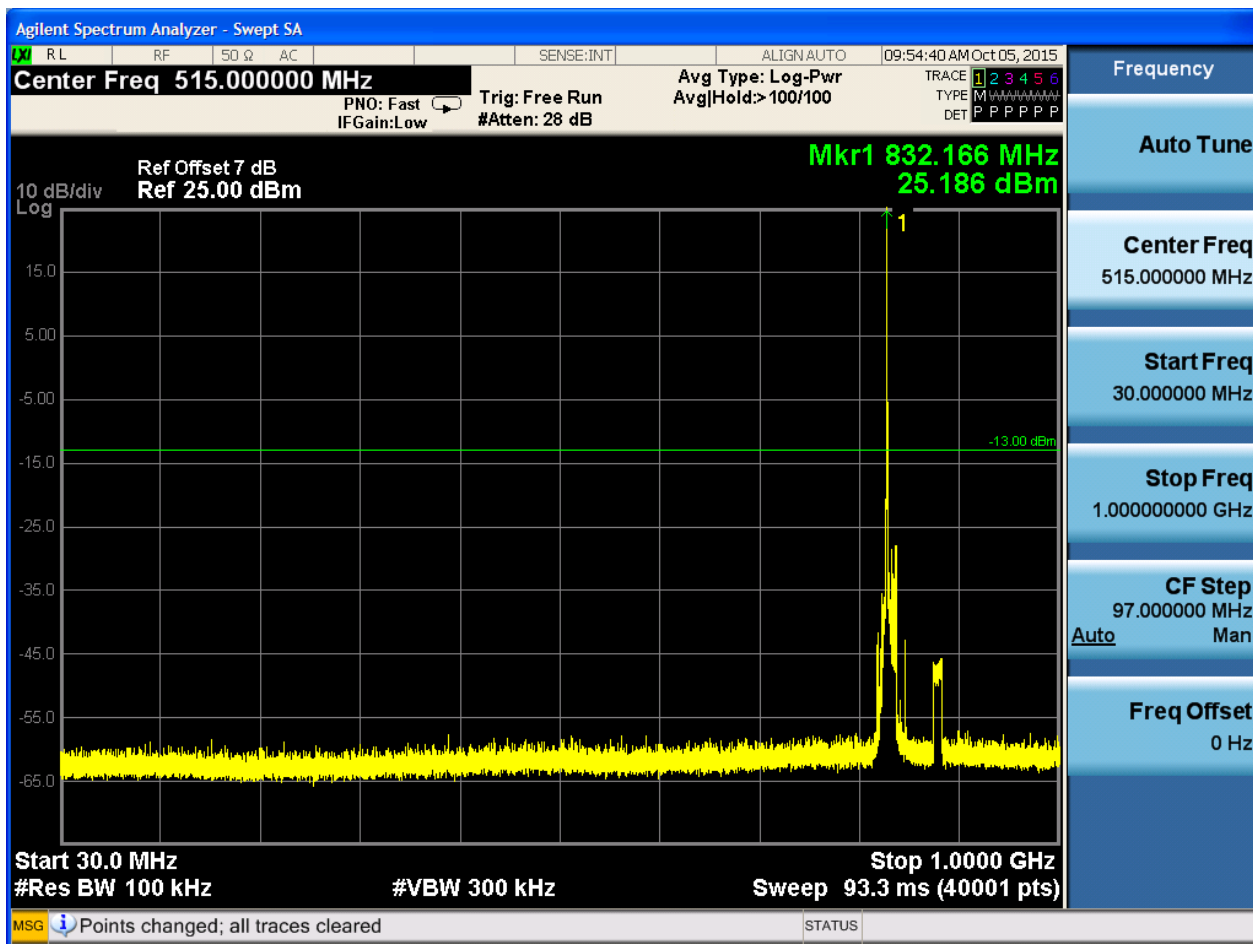


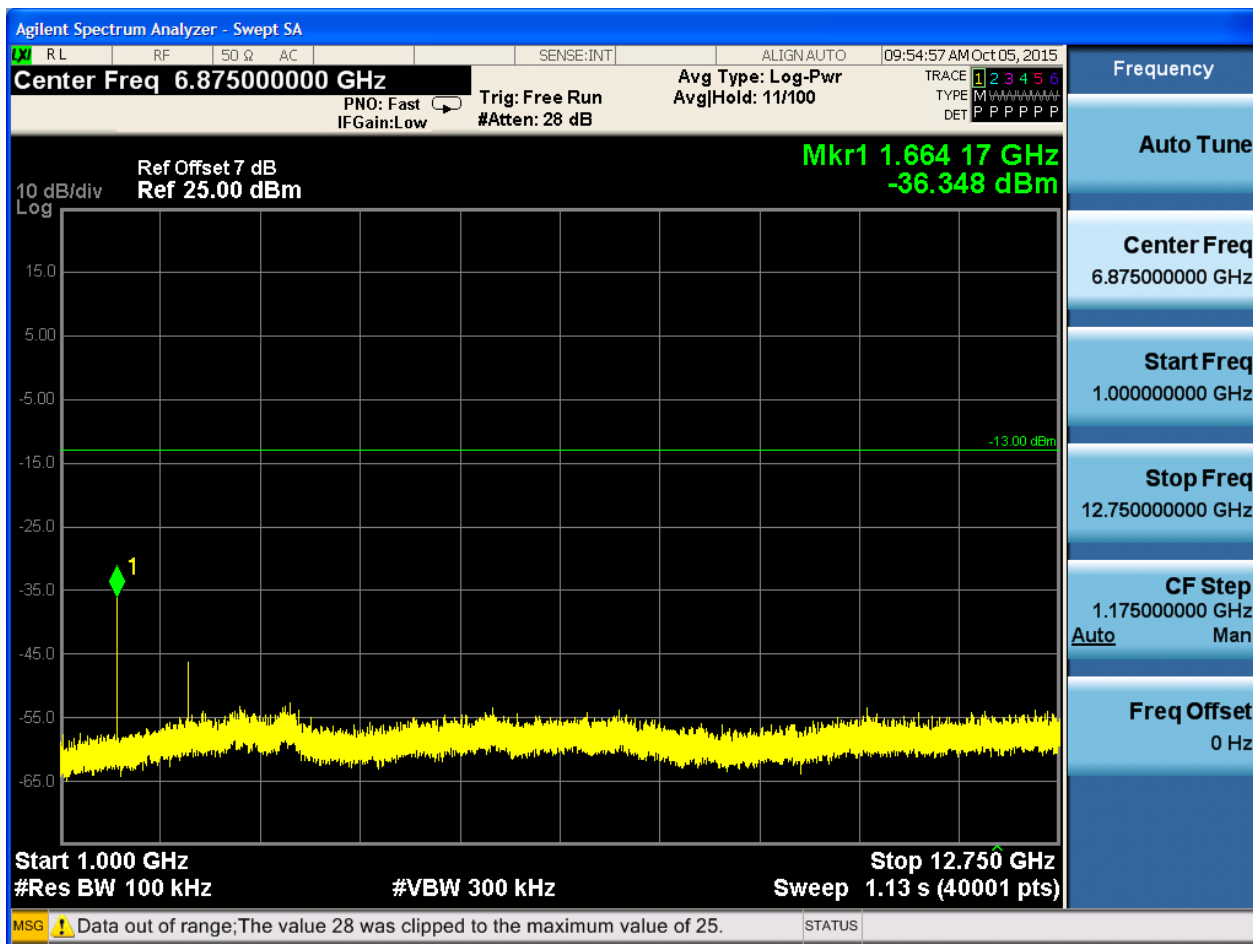
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





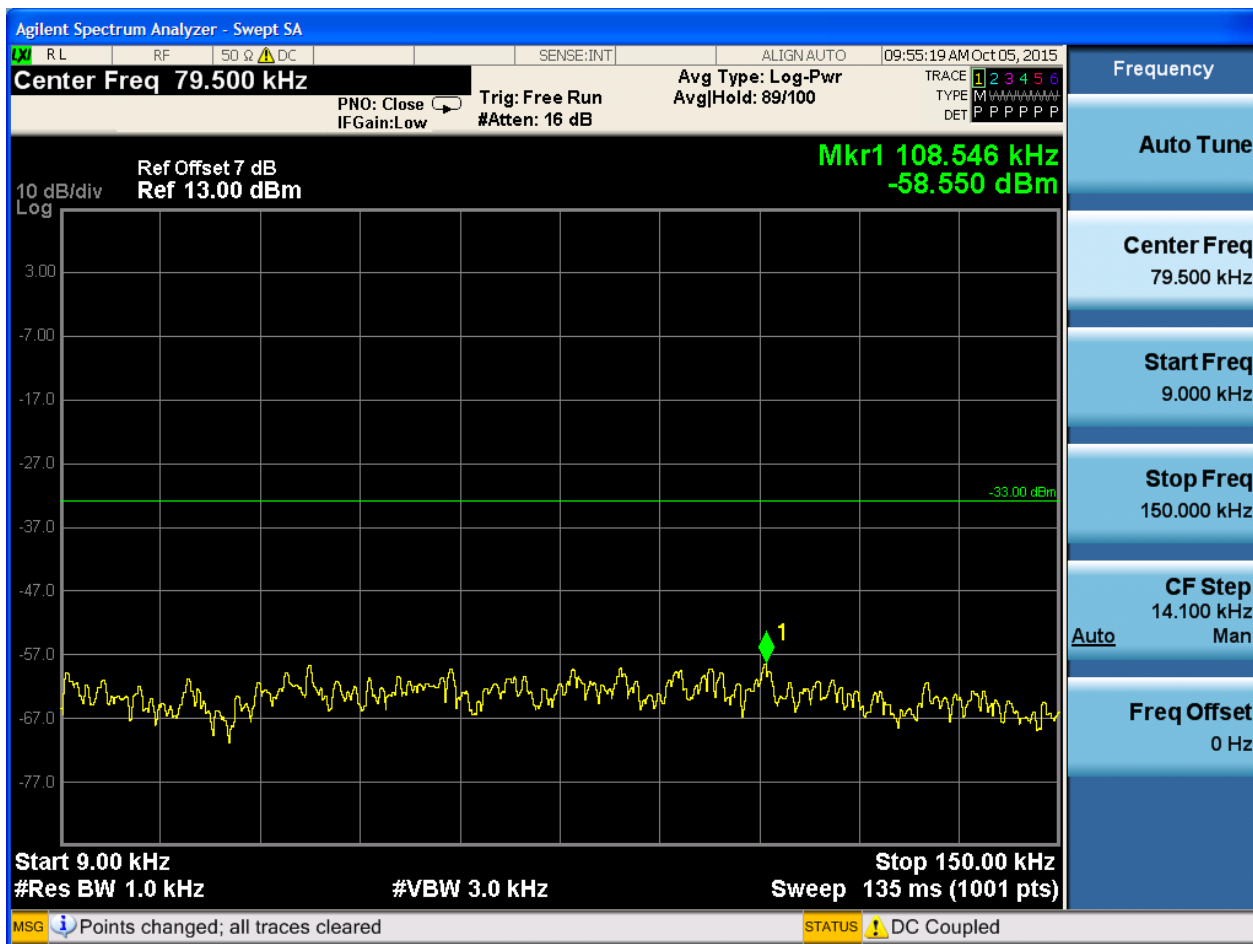




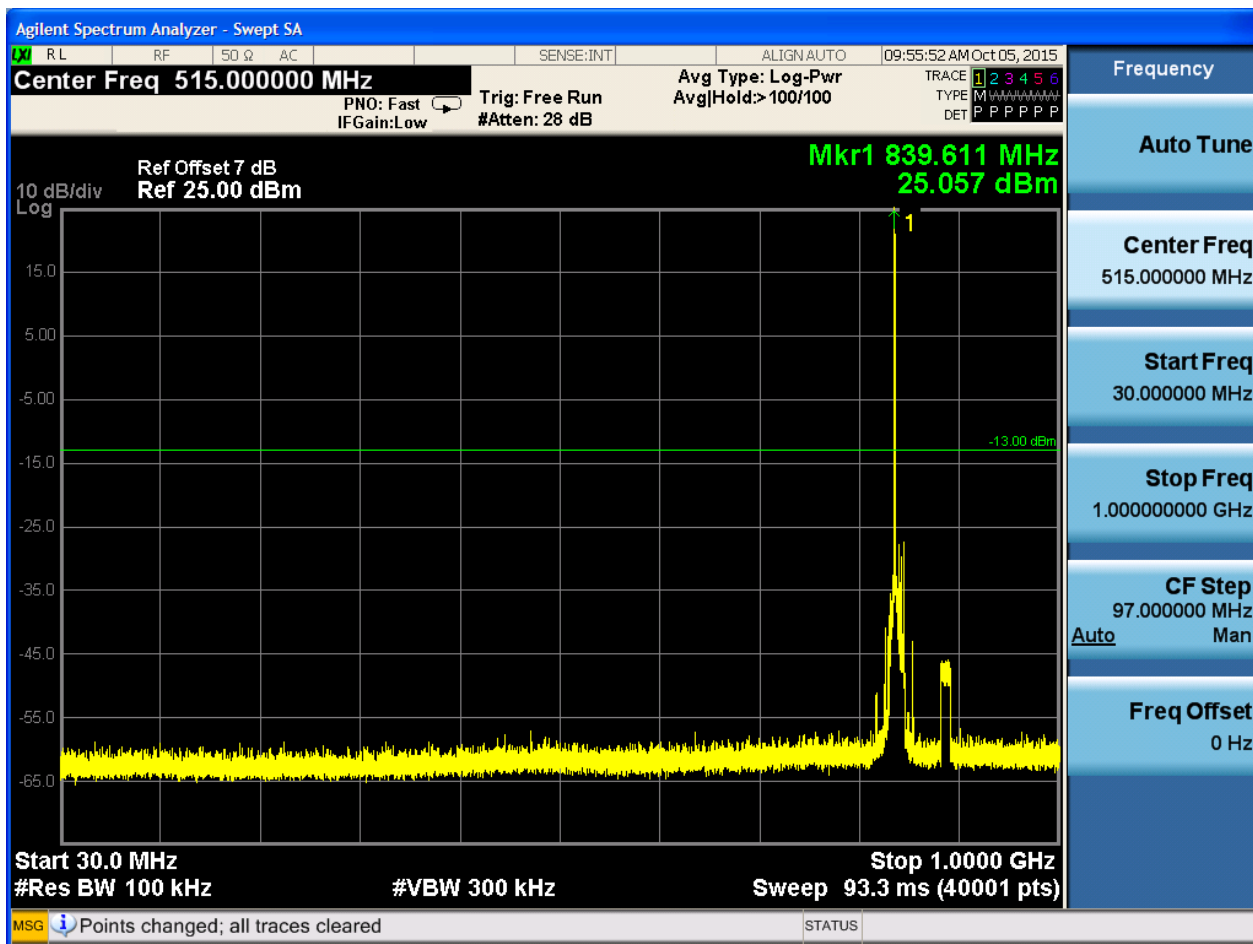


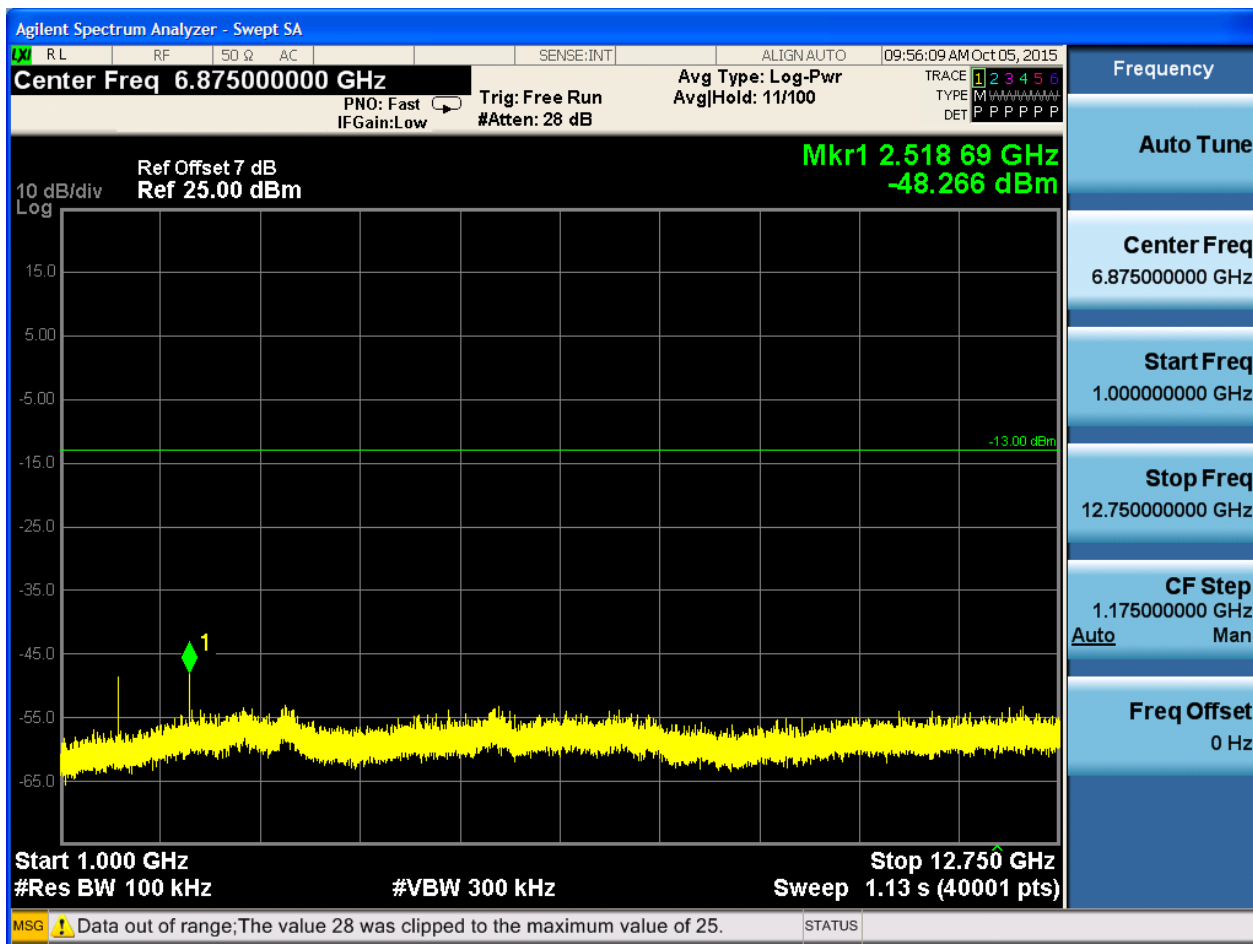
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









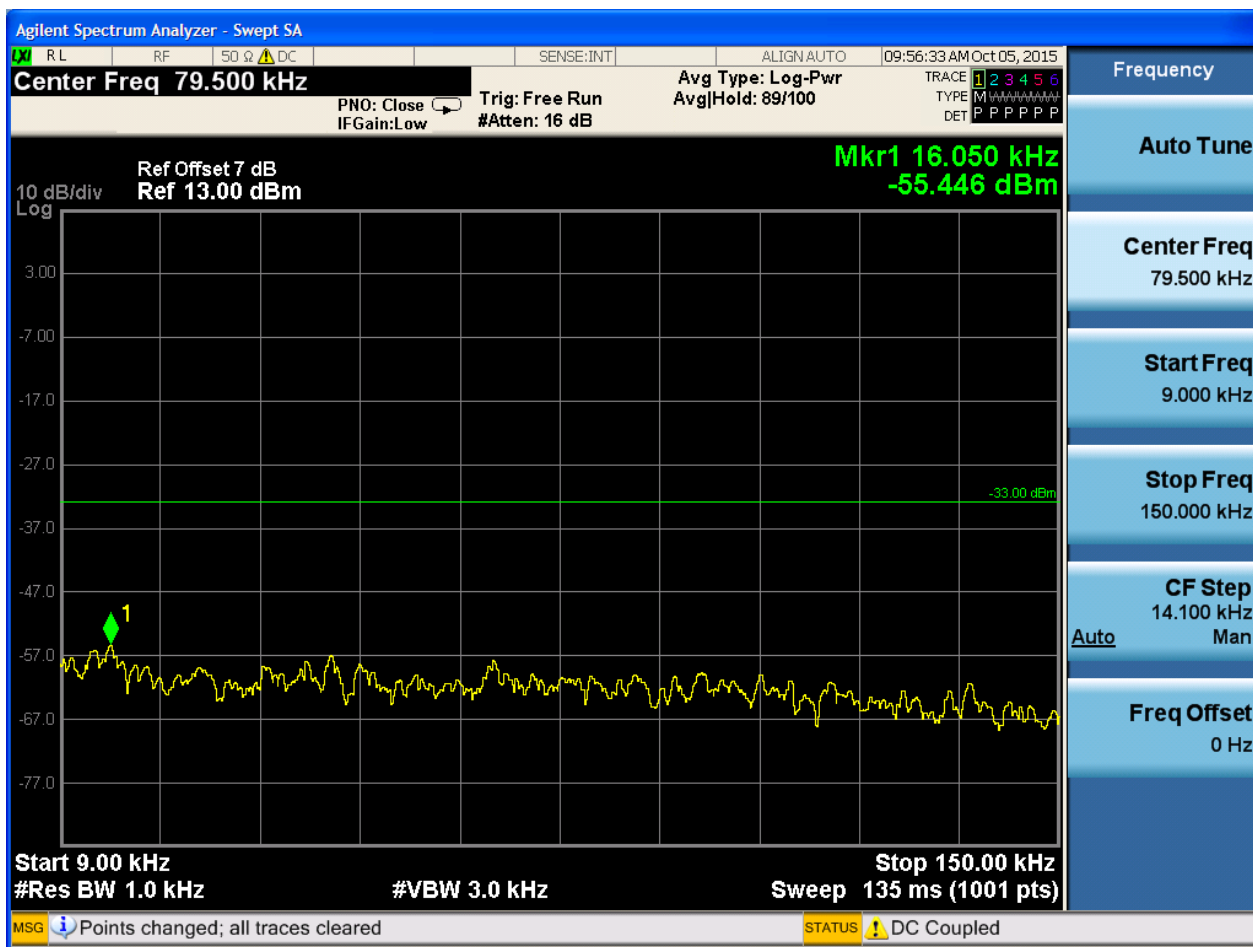


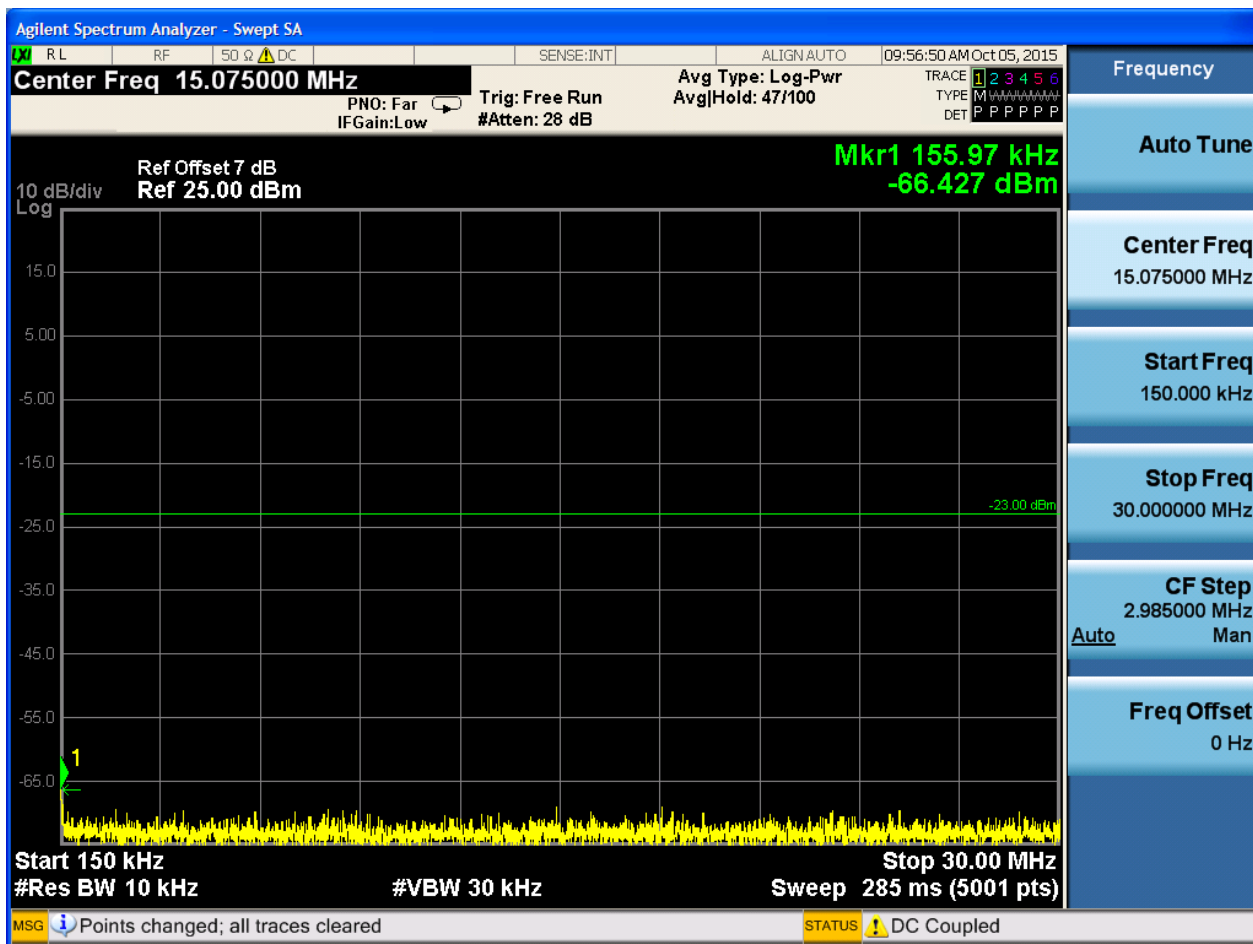
6.1.1.2 Test Mode = LTE/TM2

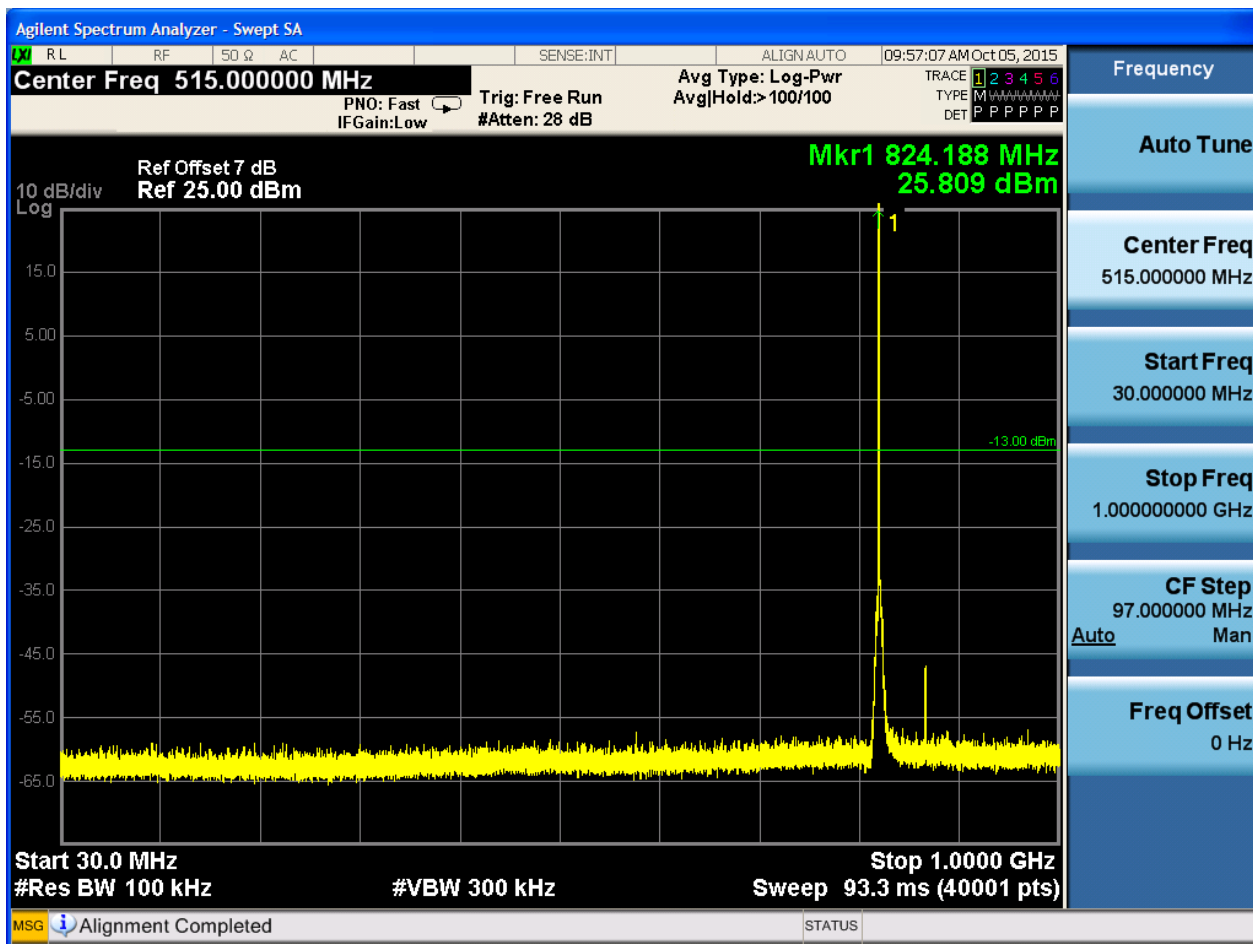
6.1.1.2.1 Test Bandwidth = 1.4

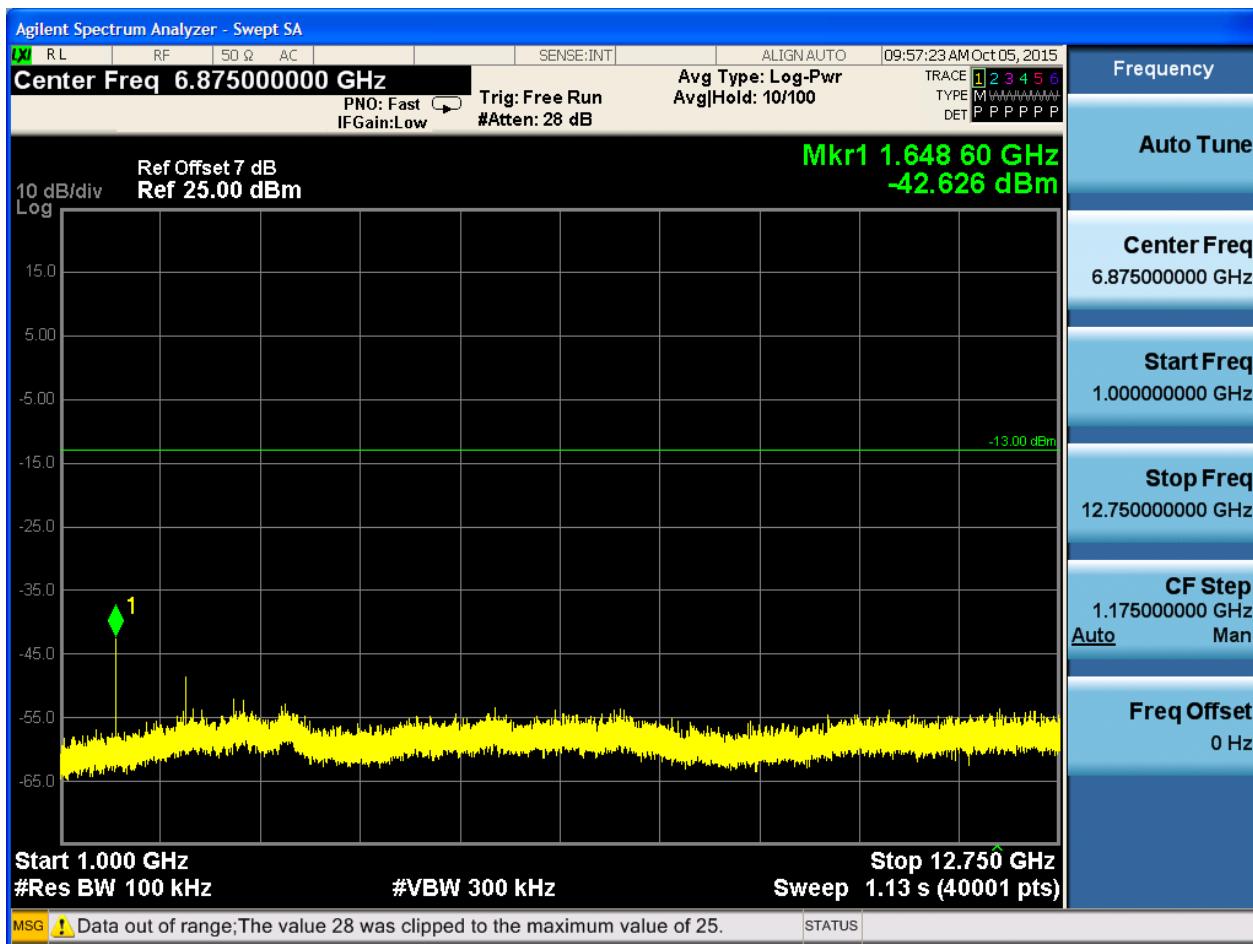
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





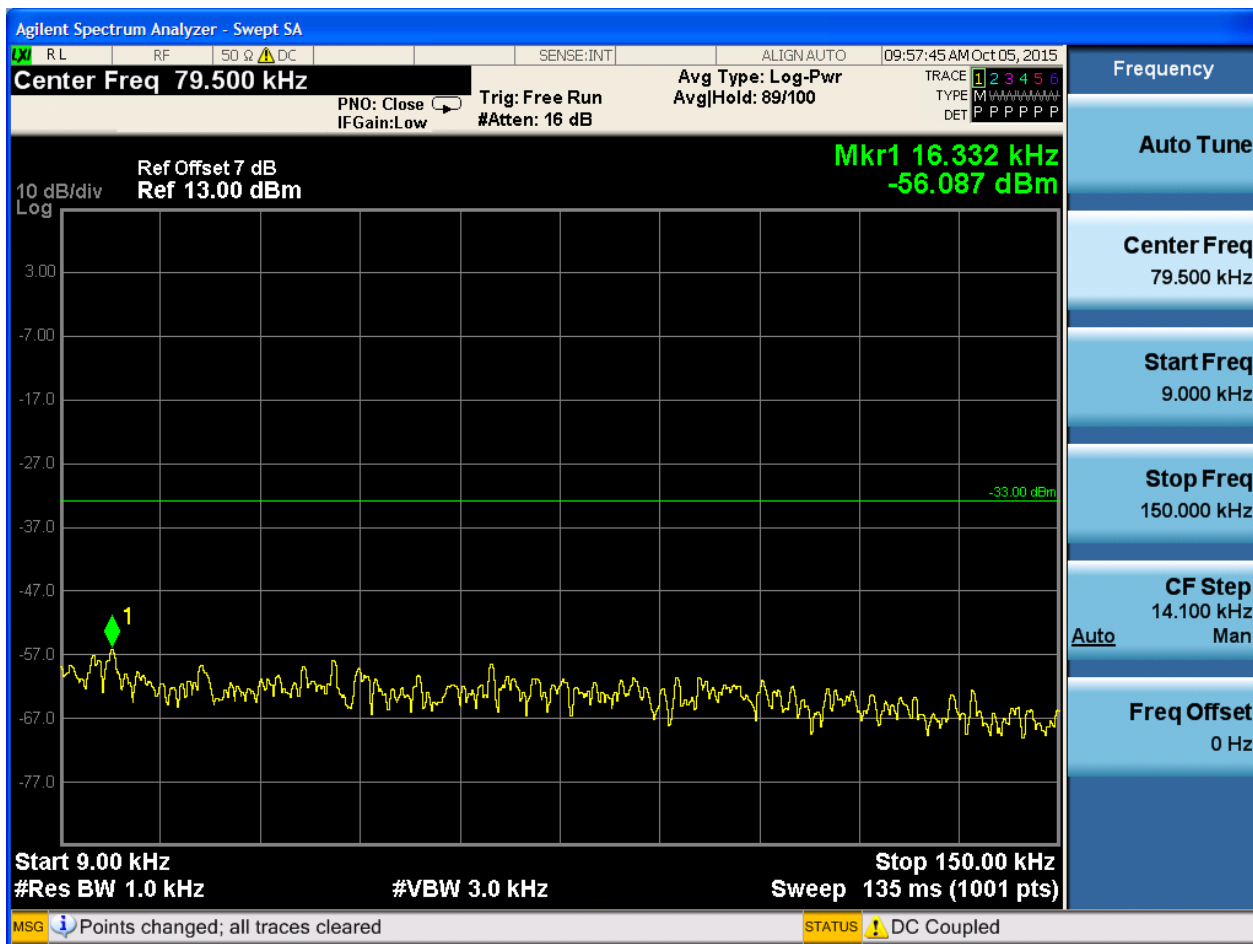




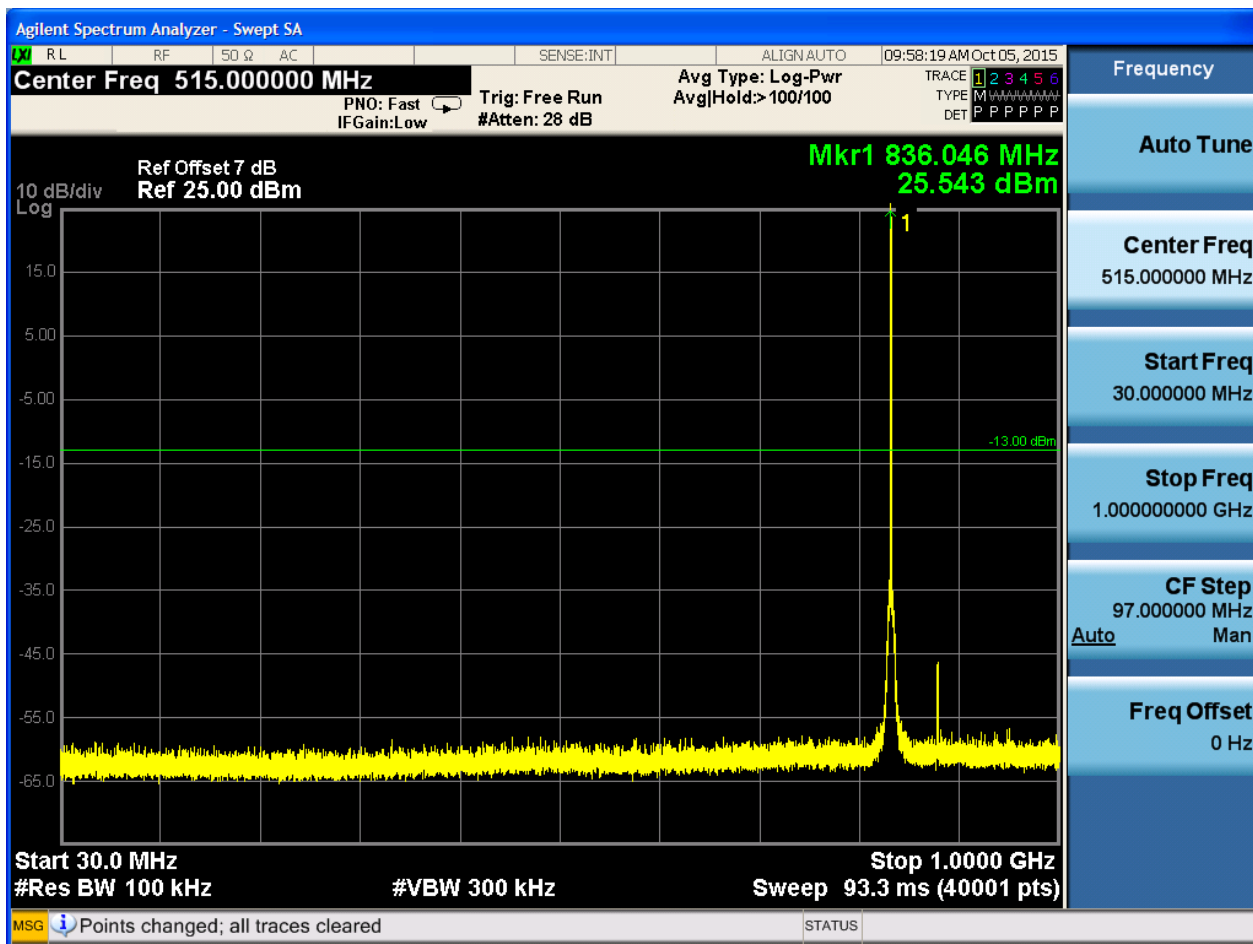


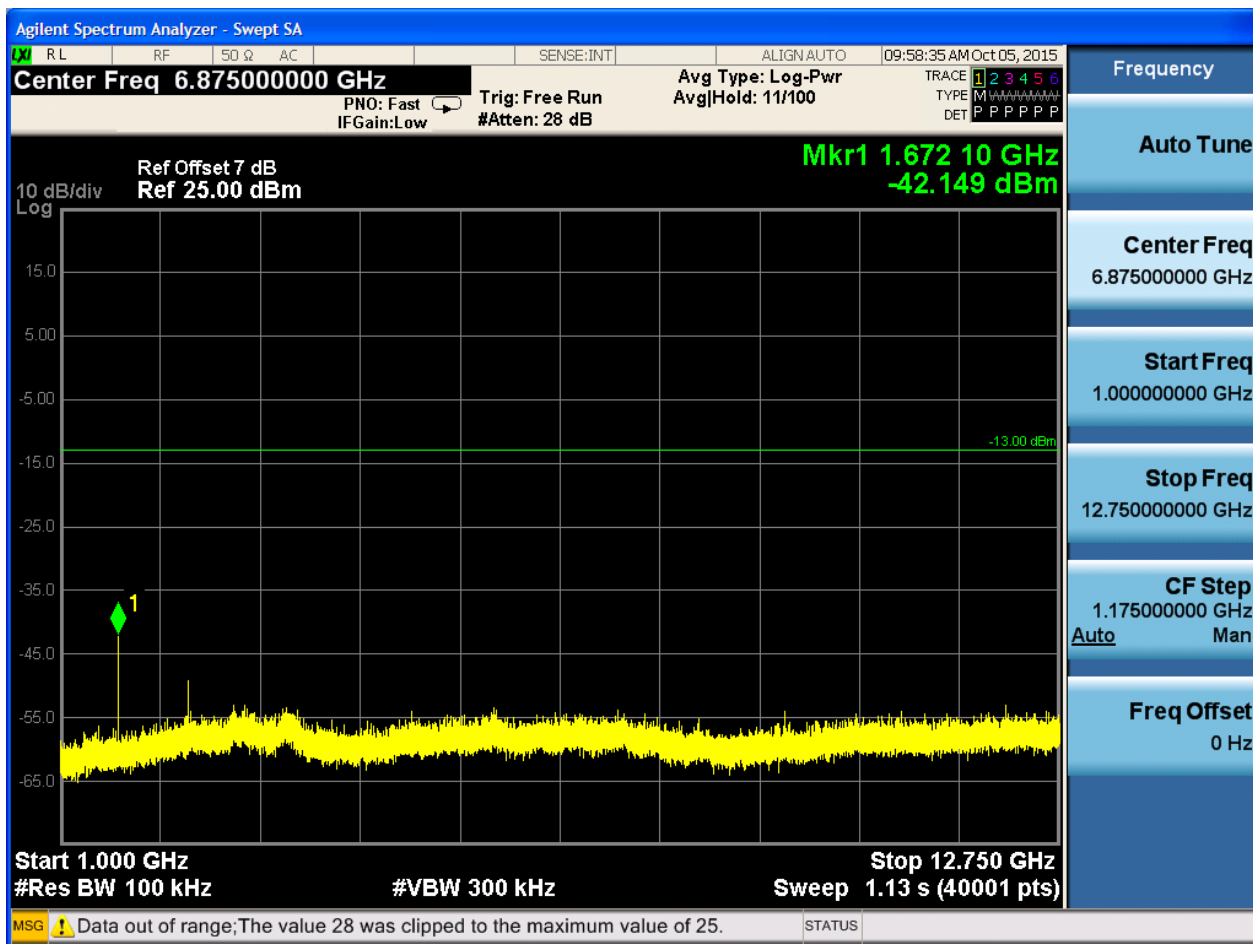
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



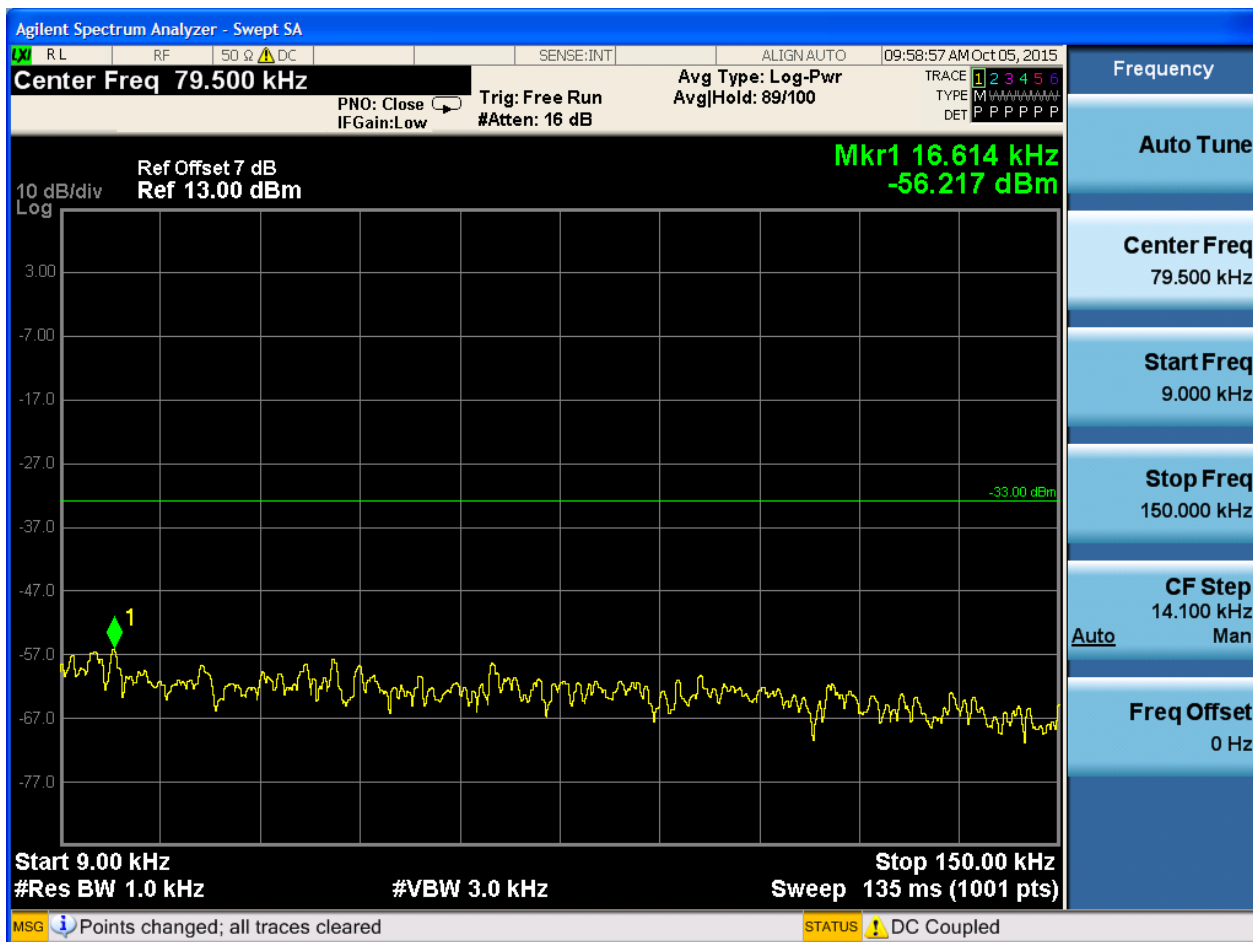




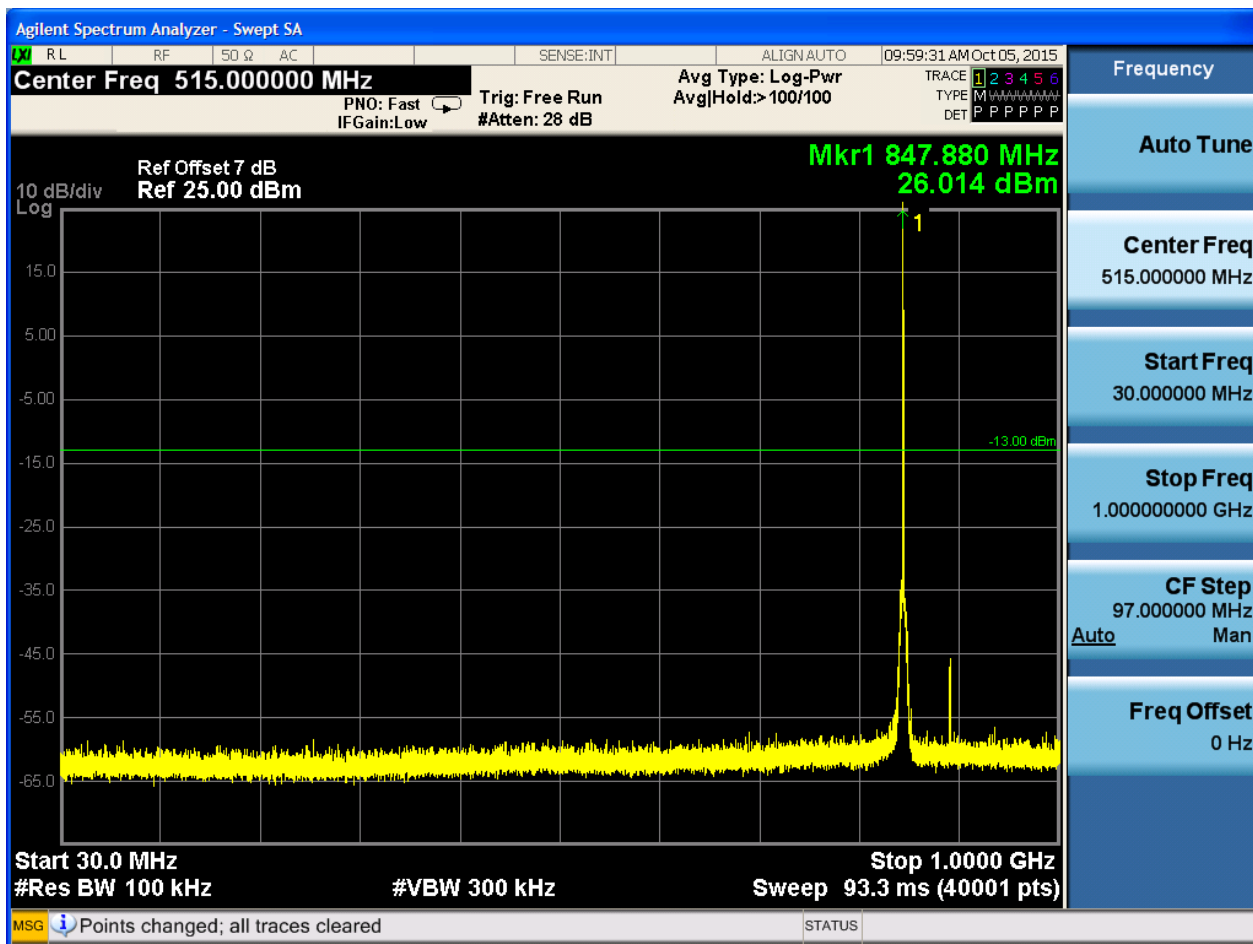


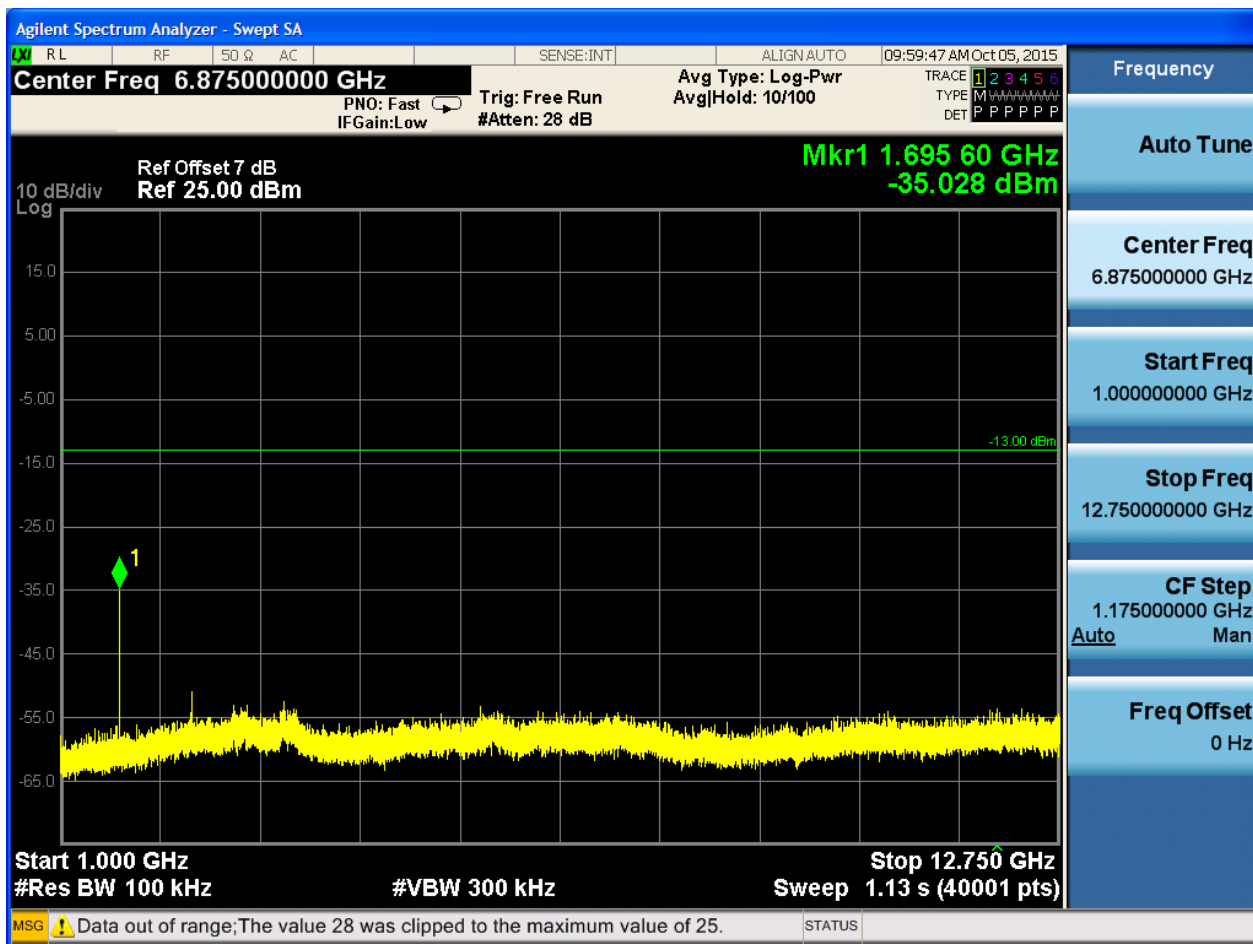
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







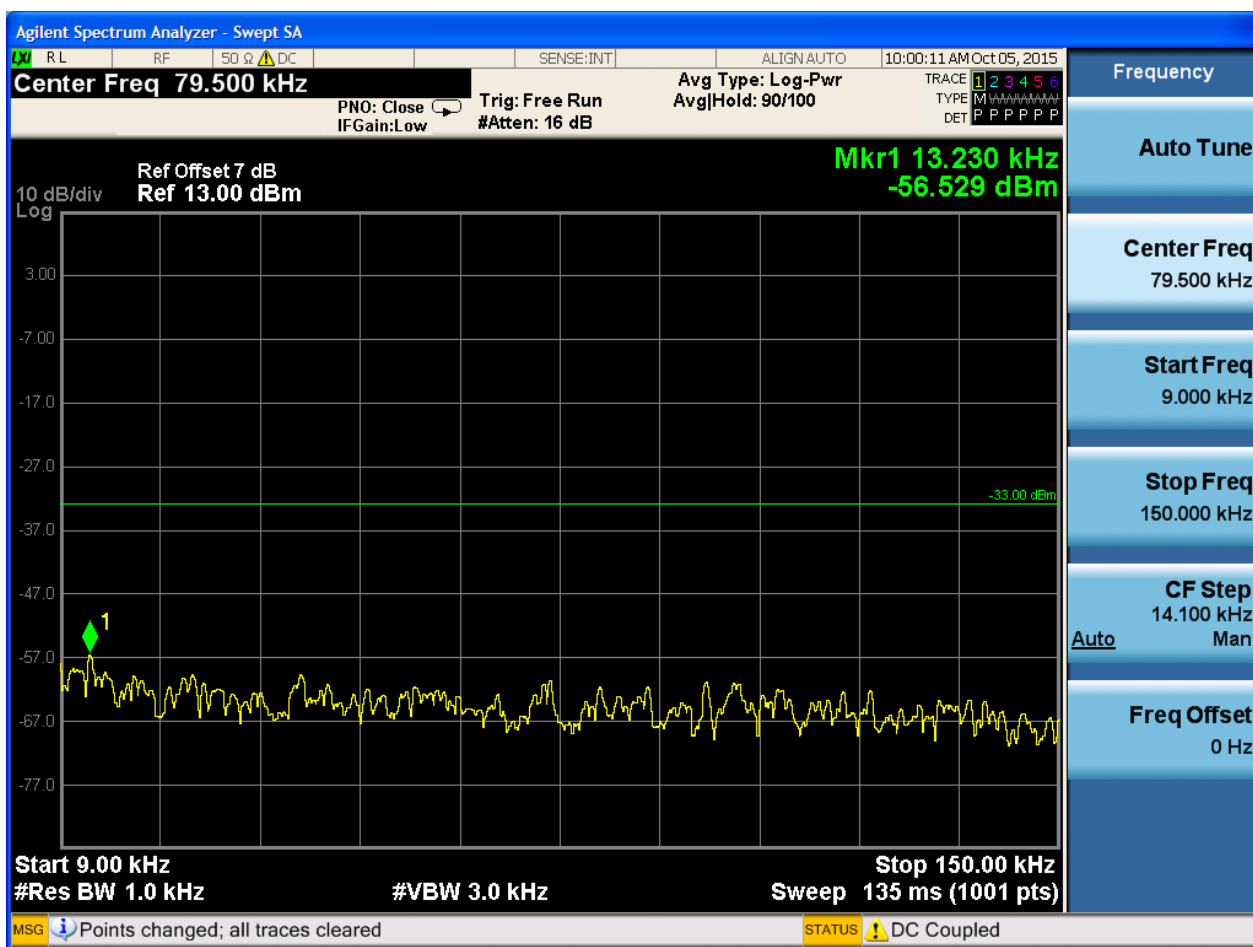


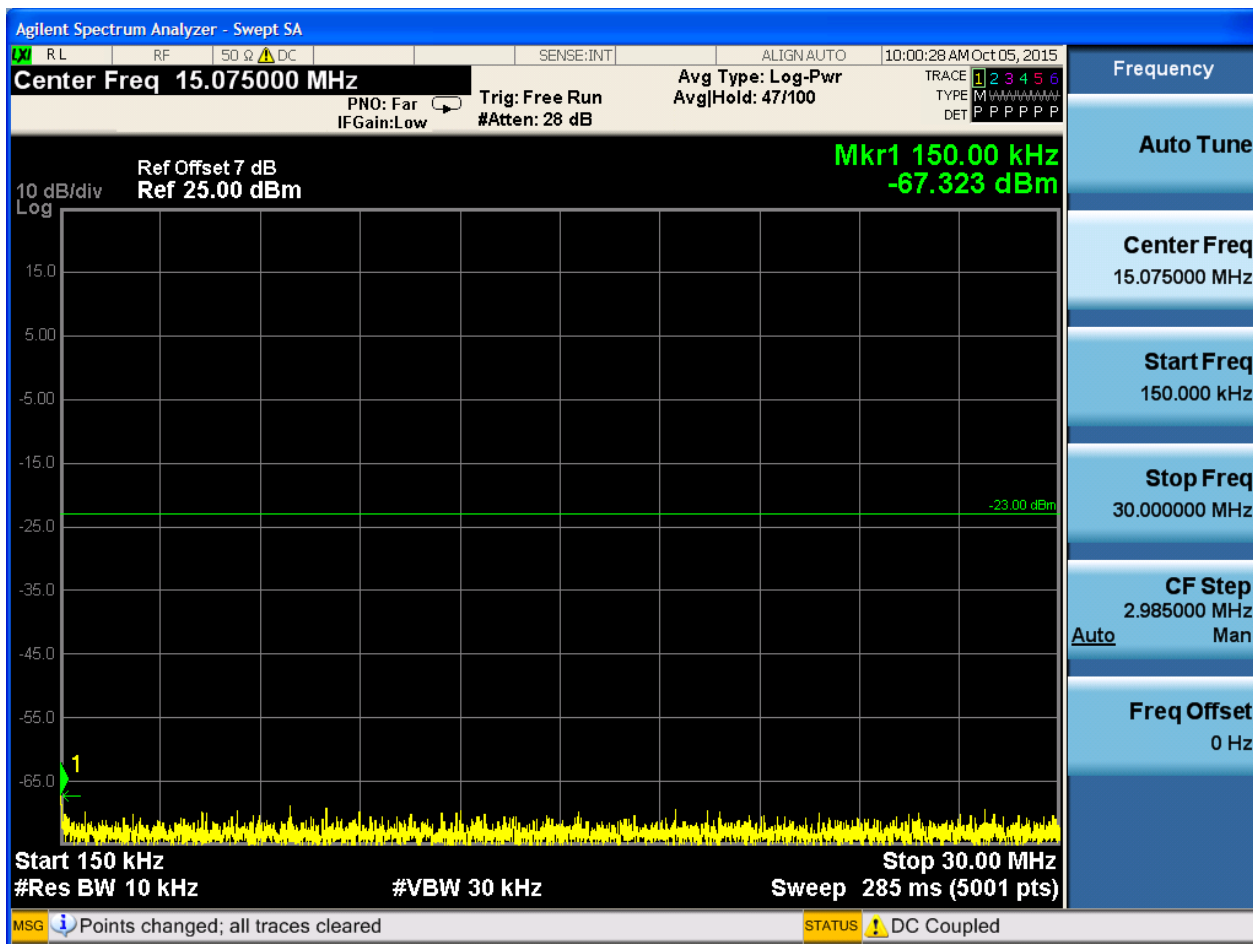


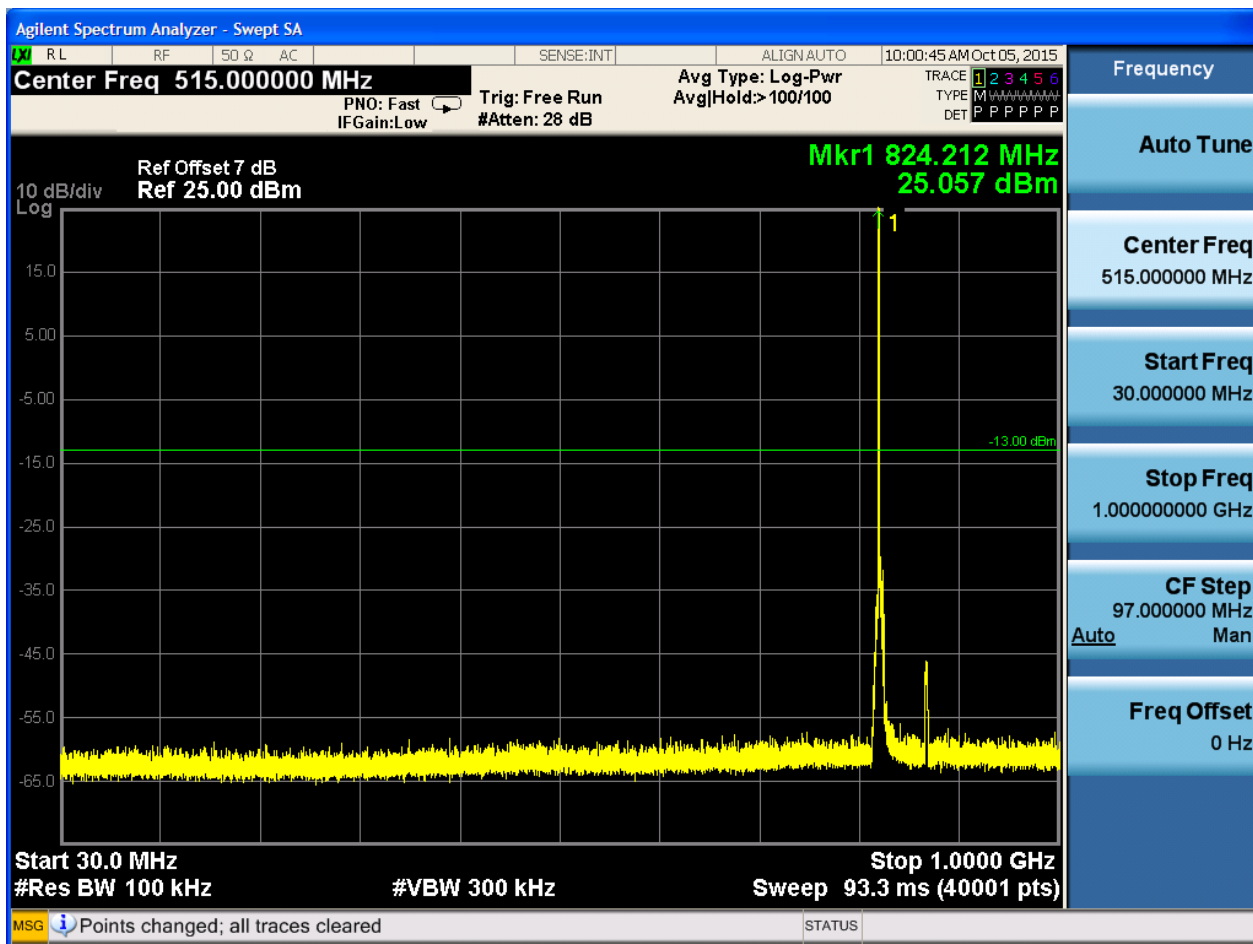
6.1.1.2.2 Test Bandwidth = 3

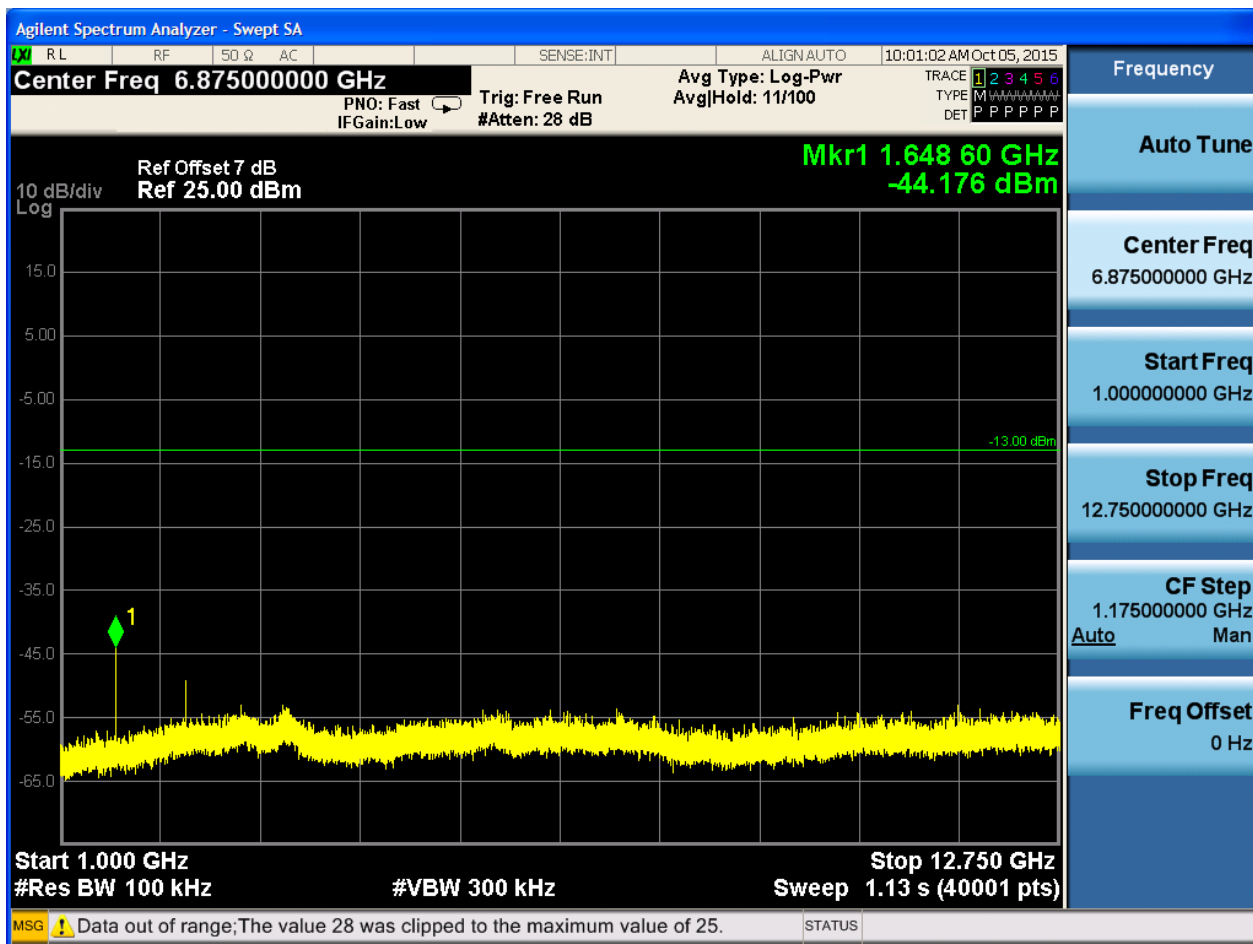
6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



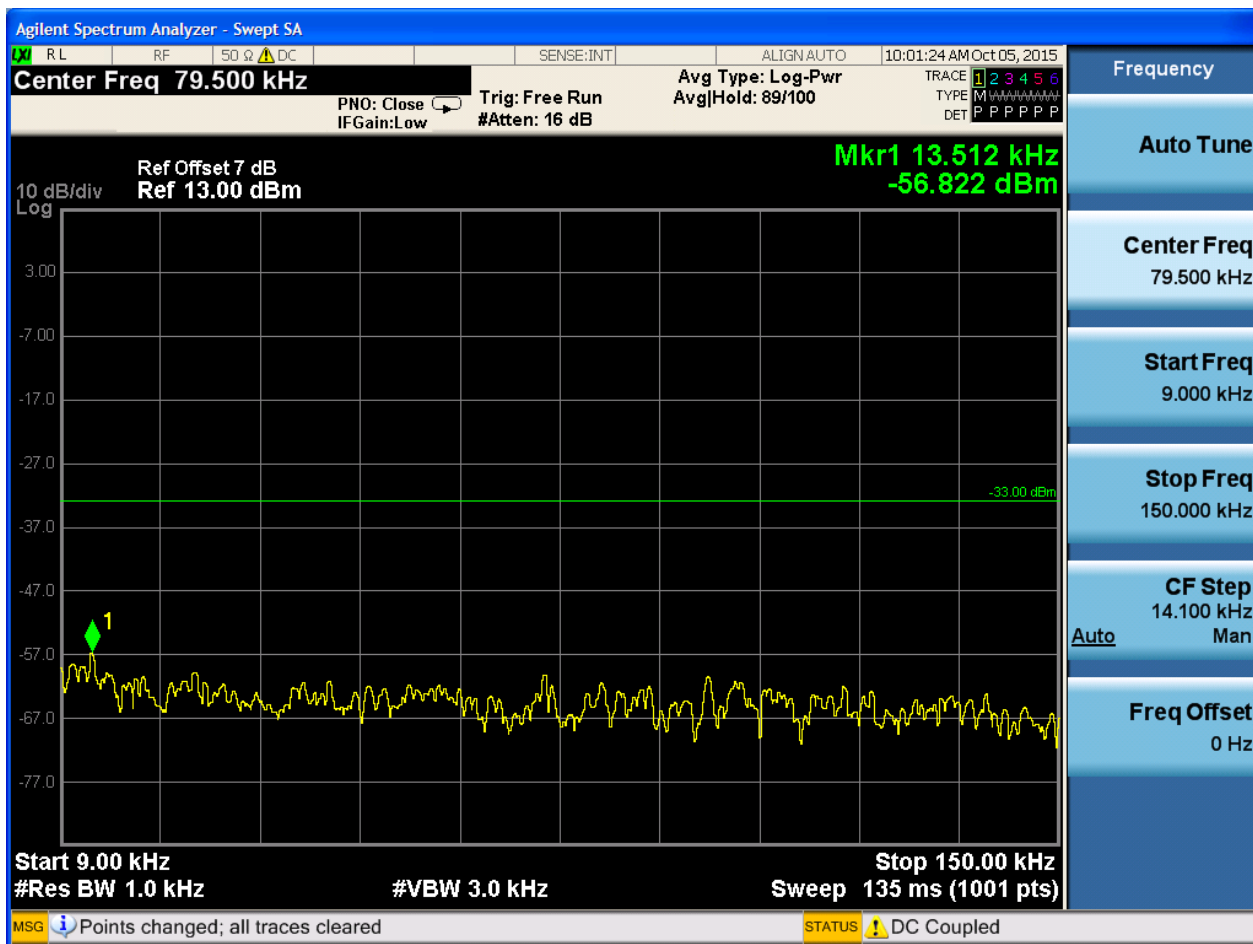




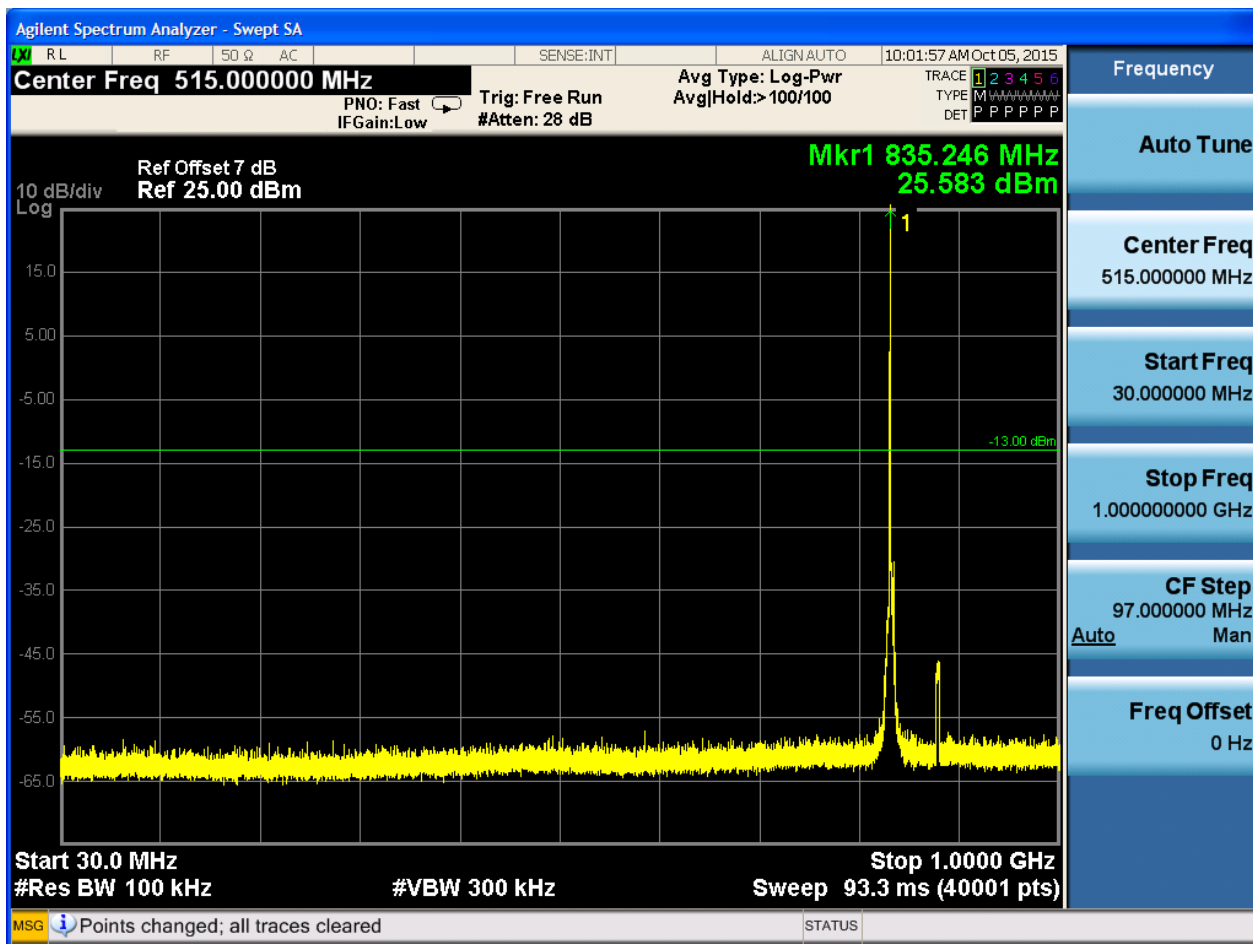


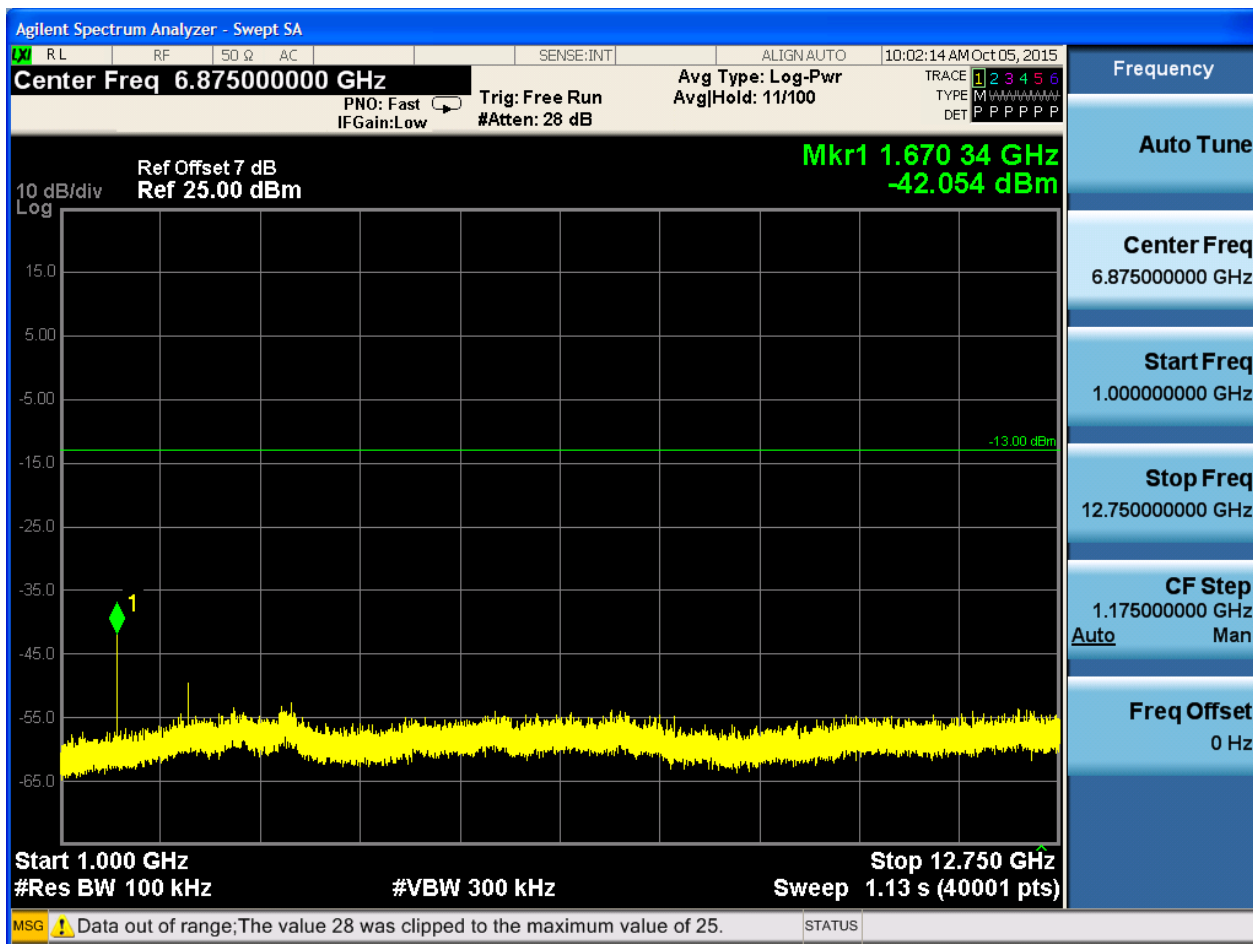
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



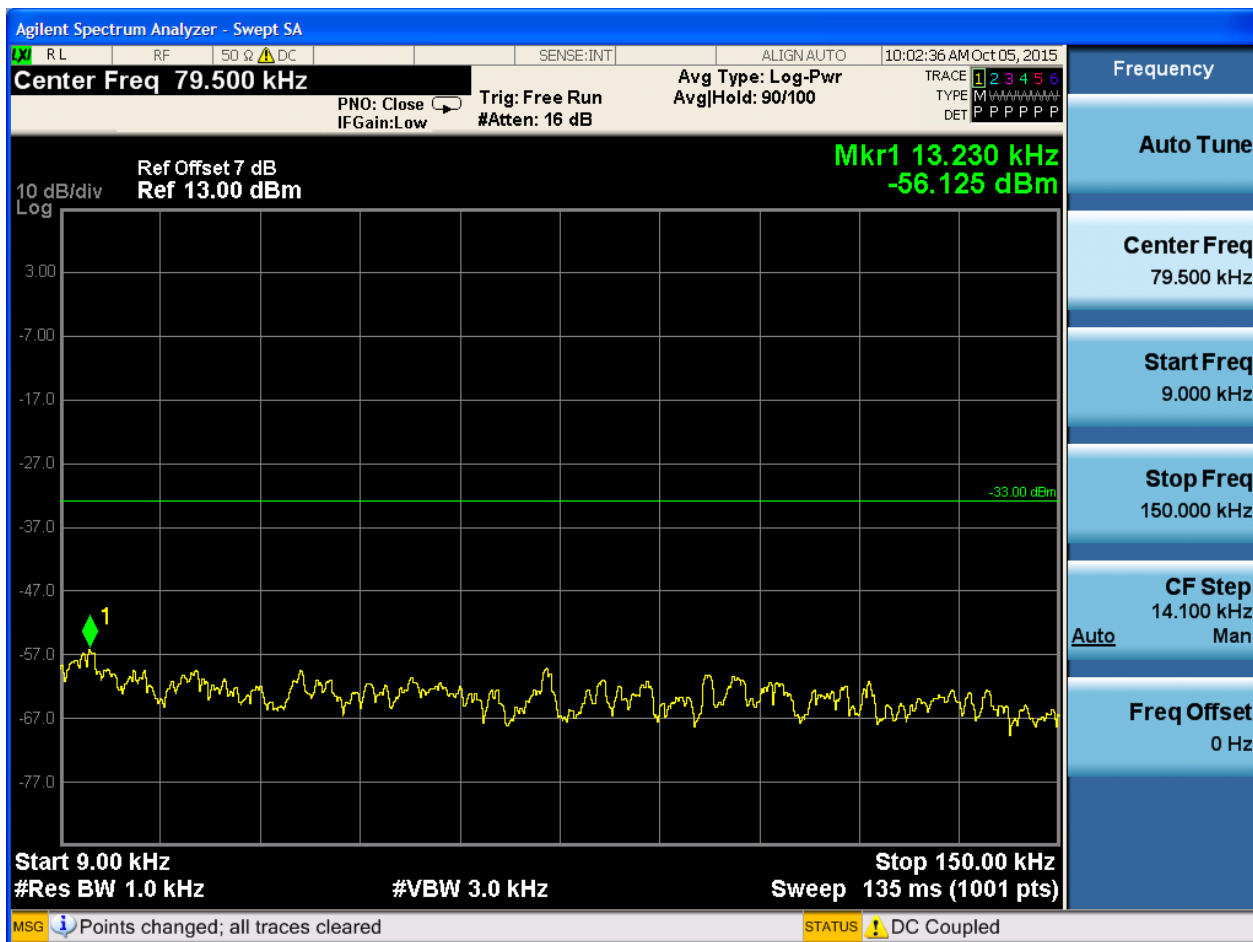


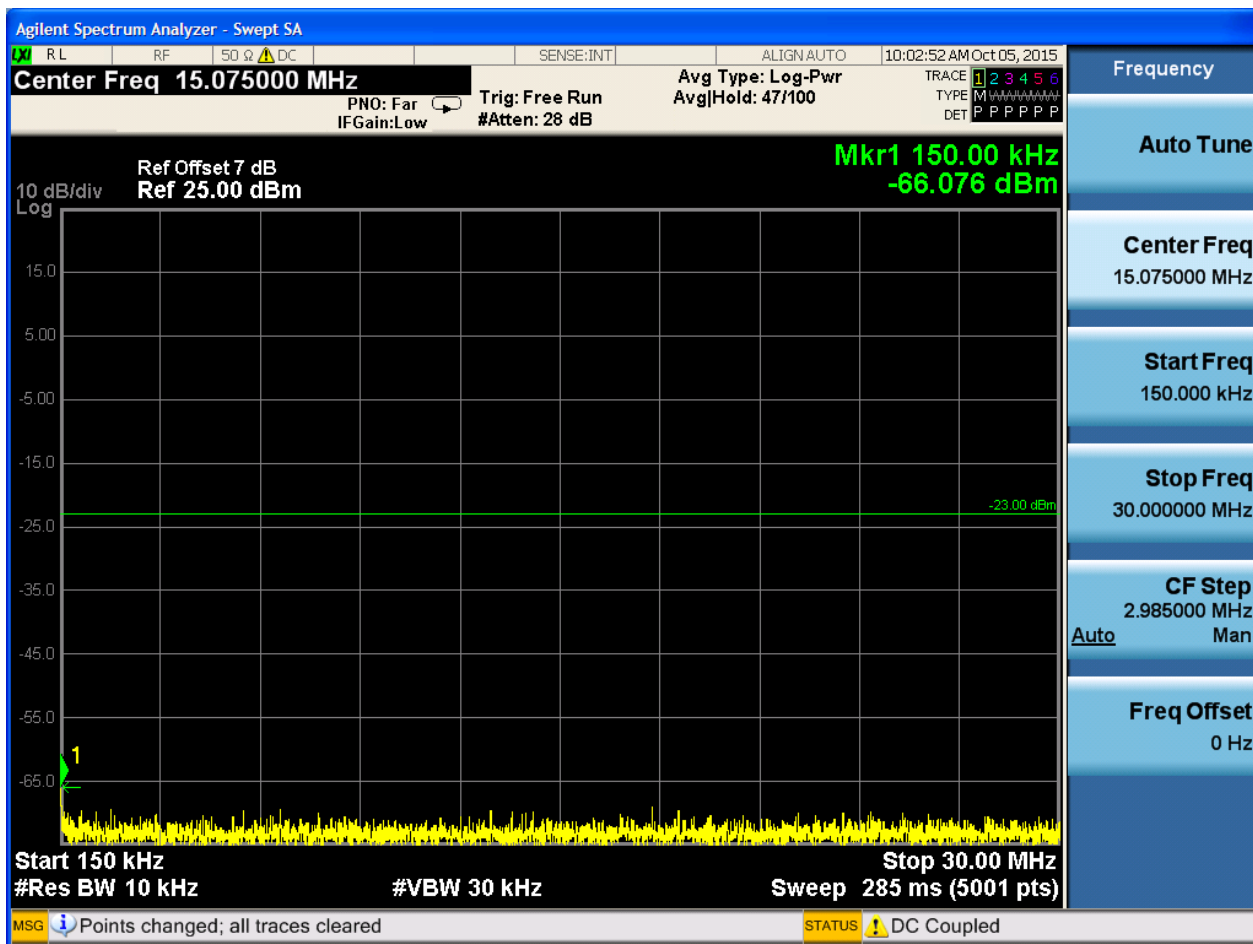


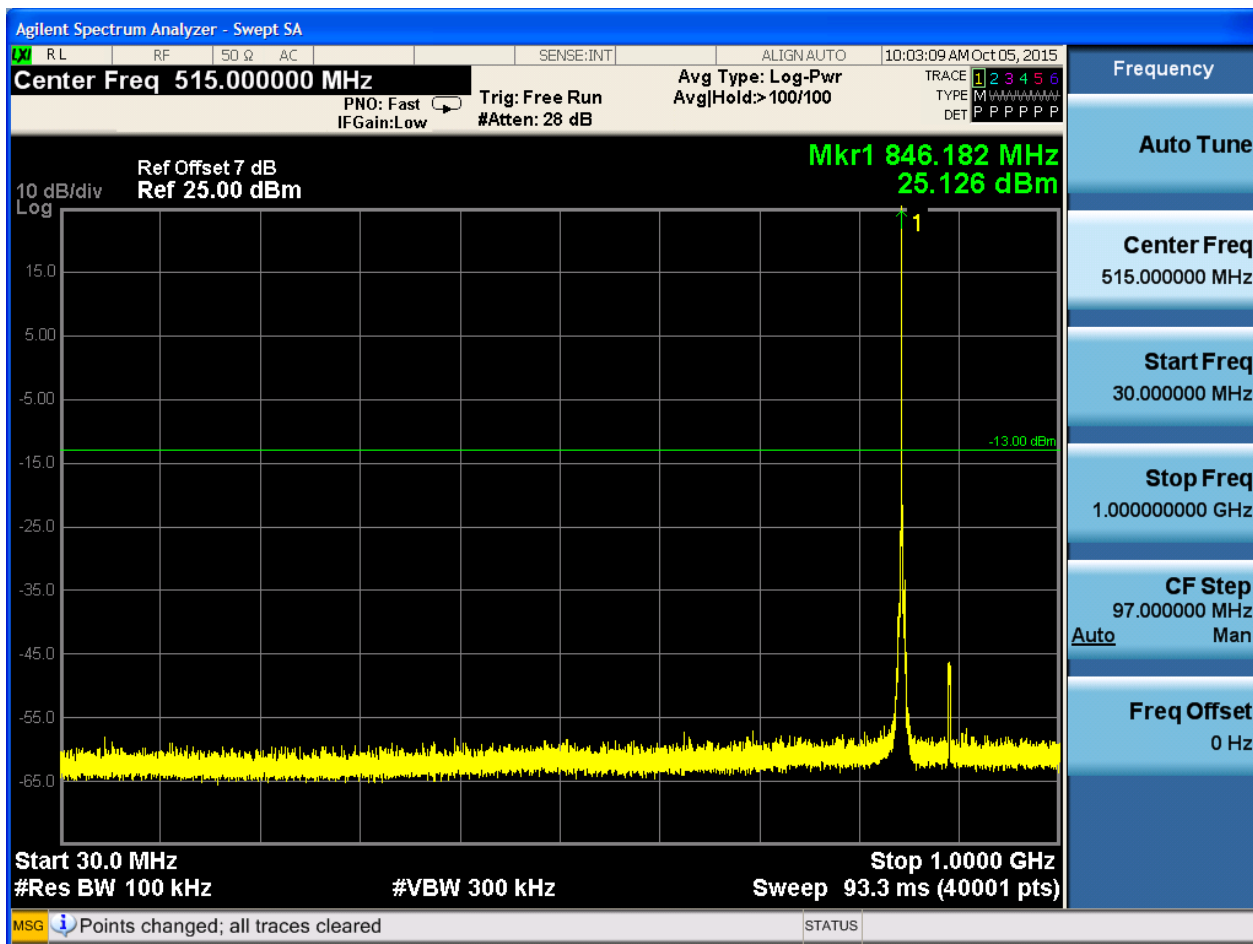


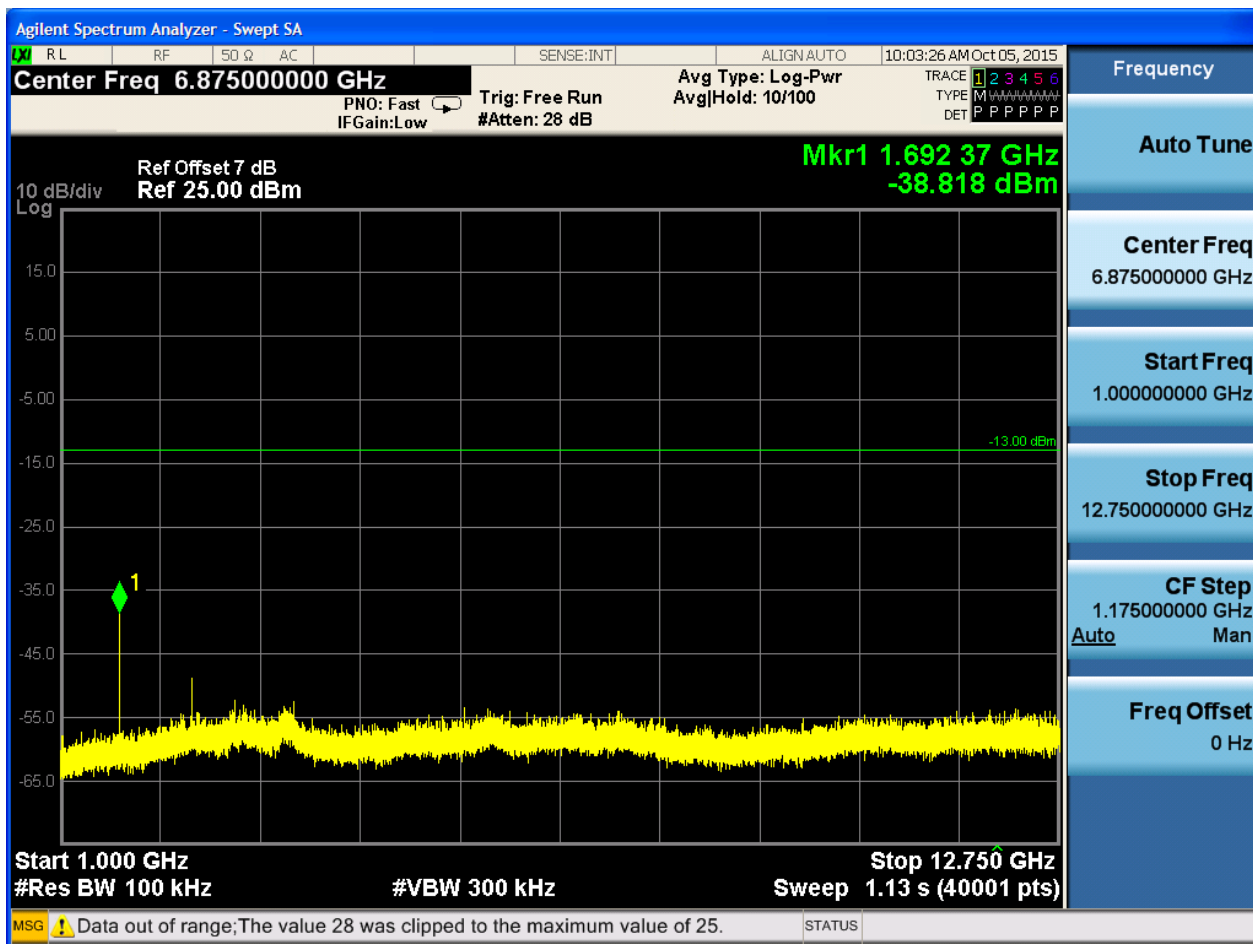
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







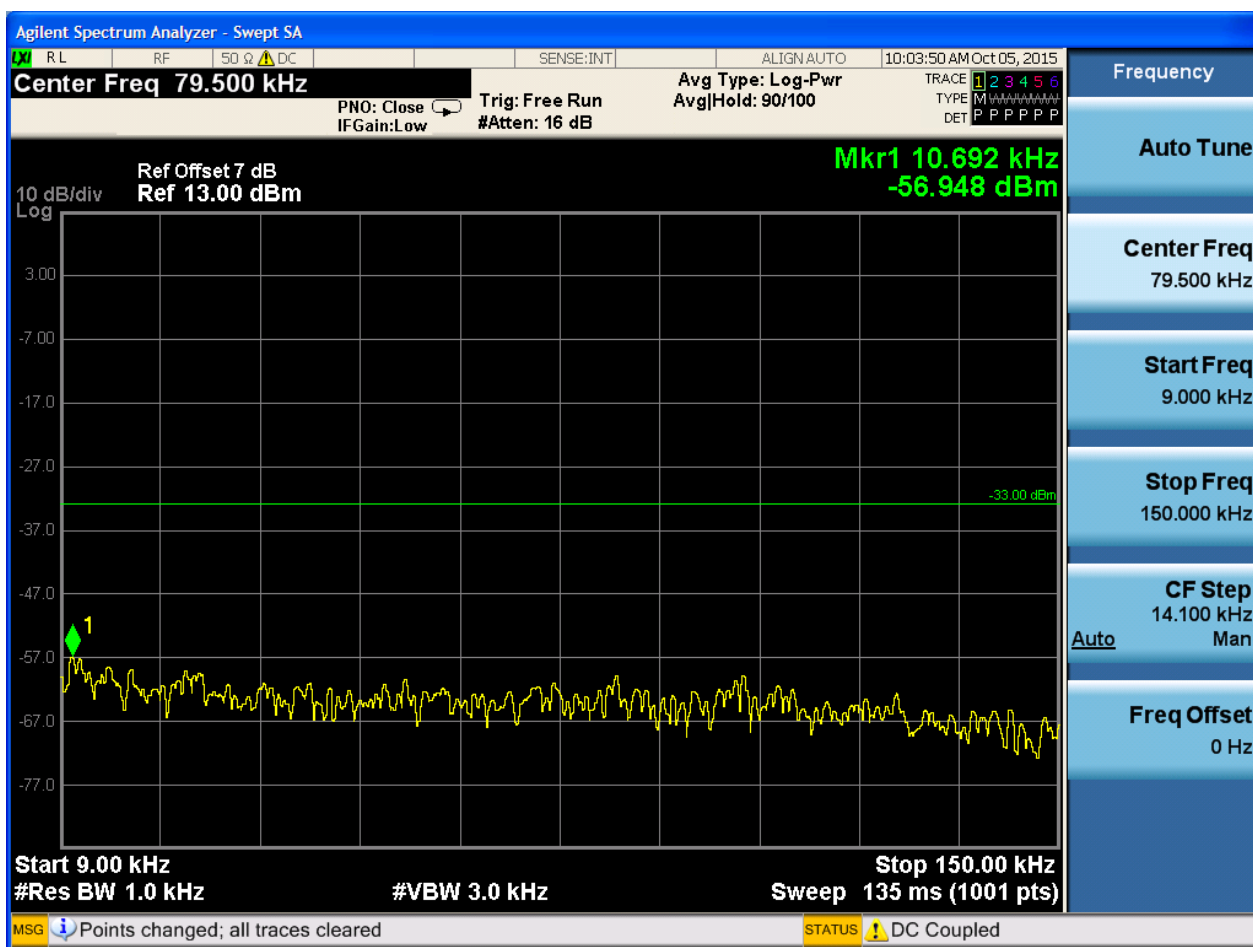




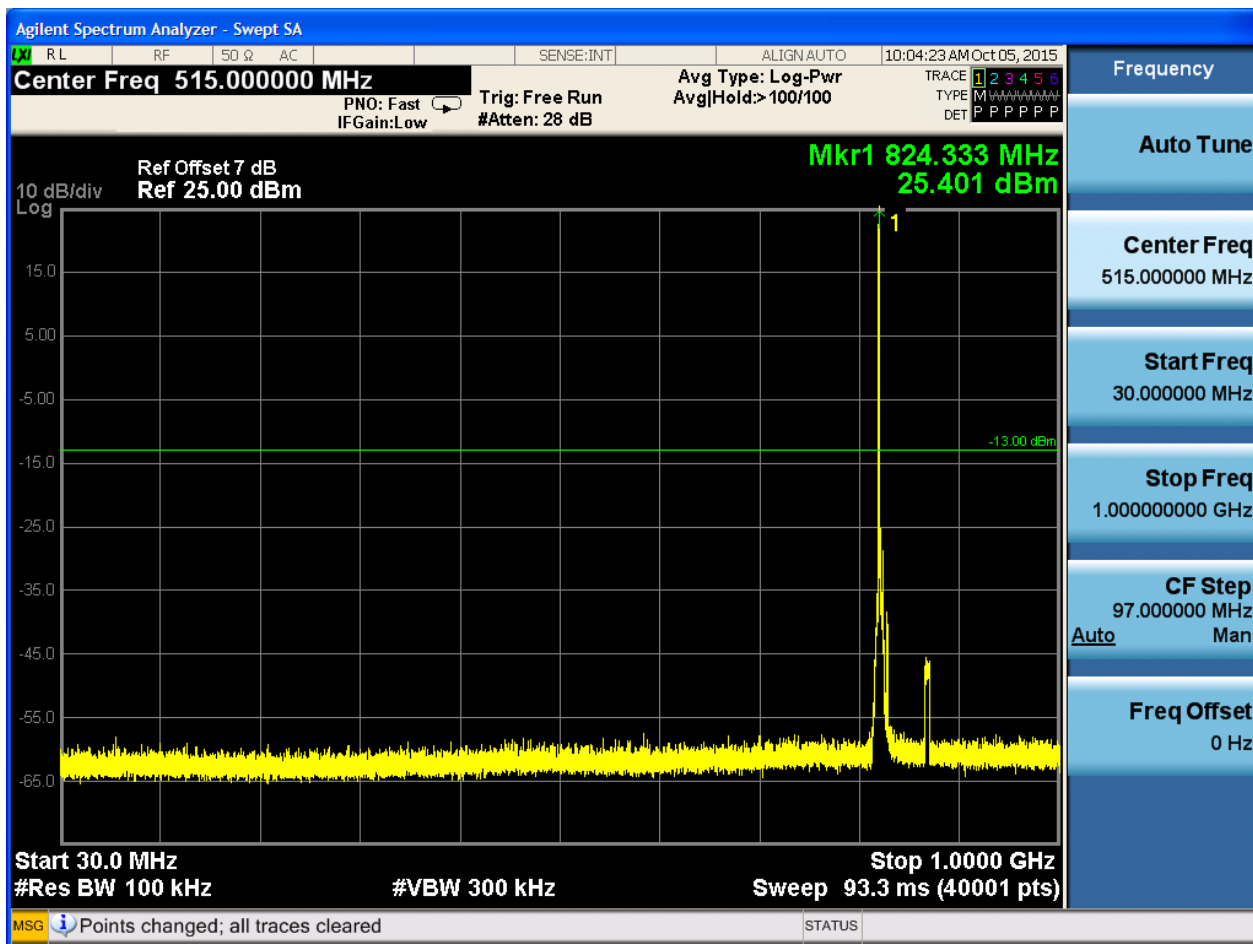
6.1.1.2.3 Test Bandwidth = 5

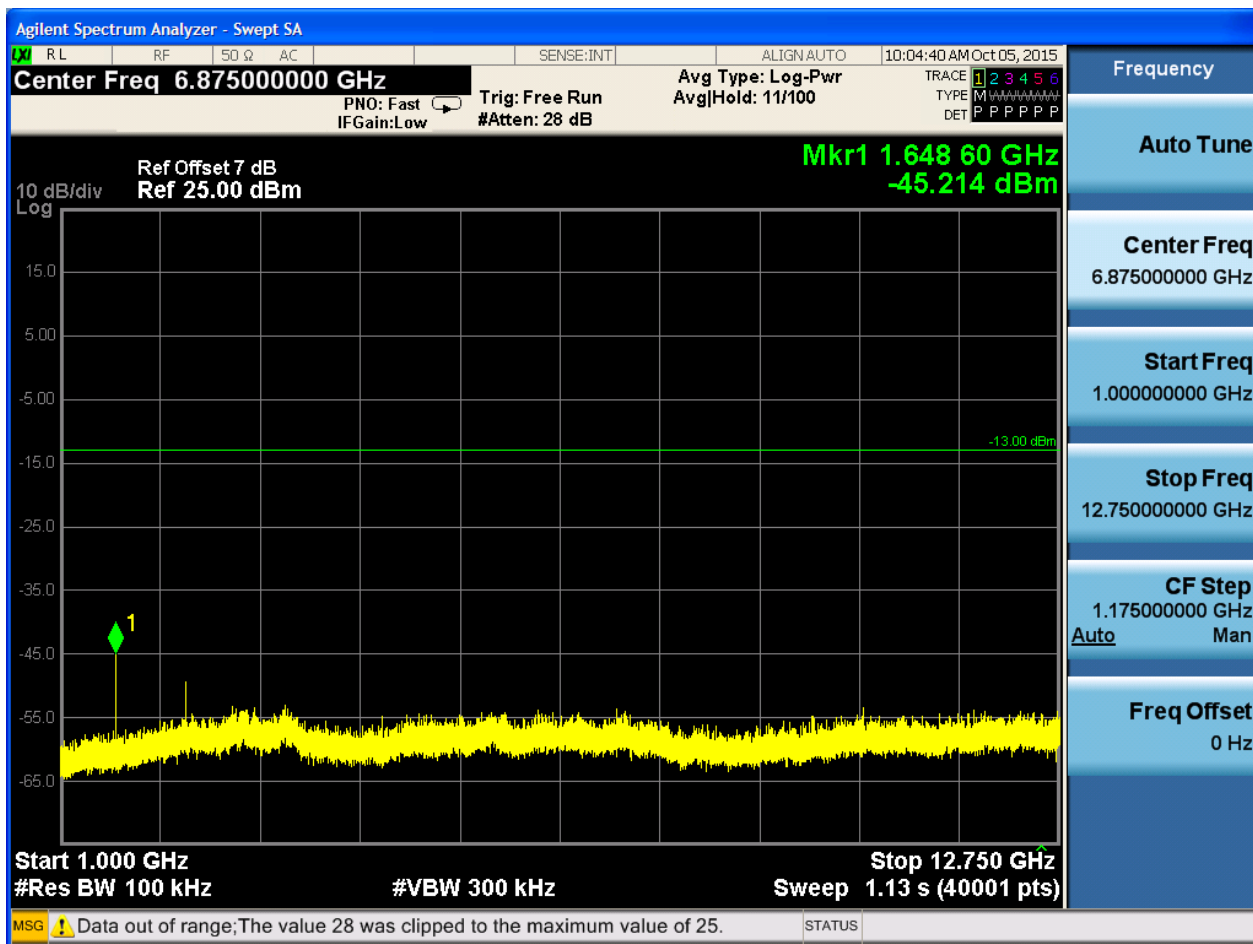
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



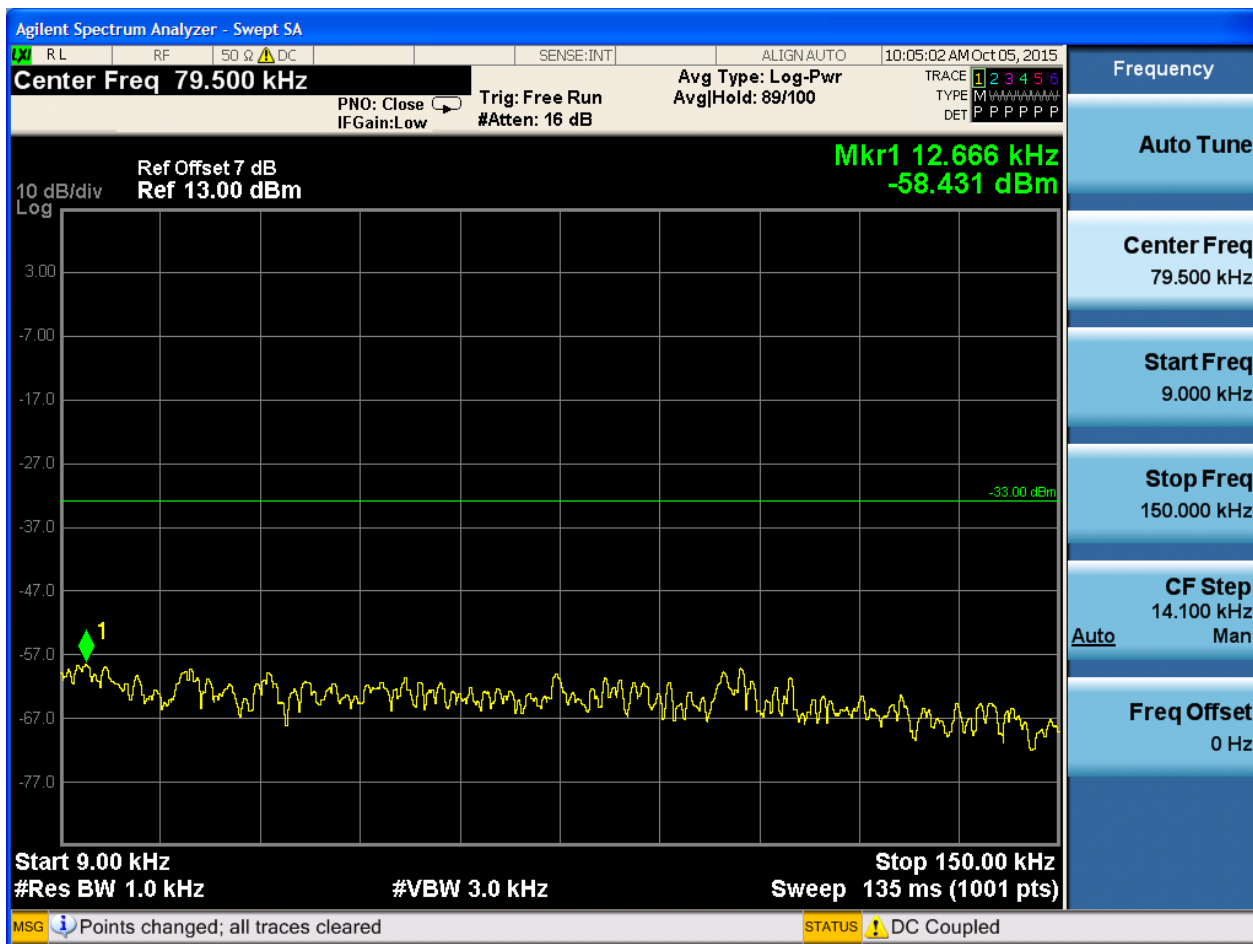


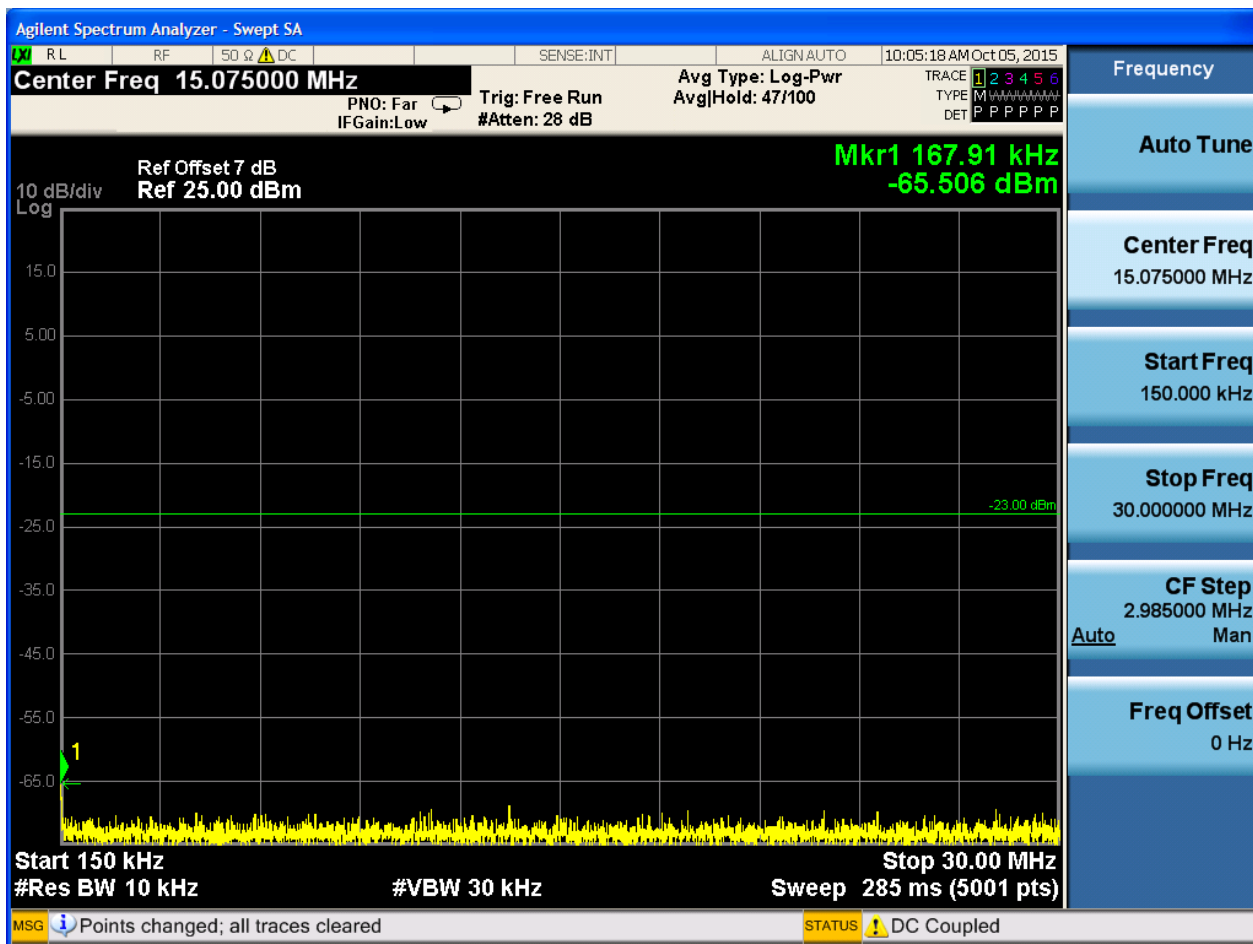


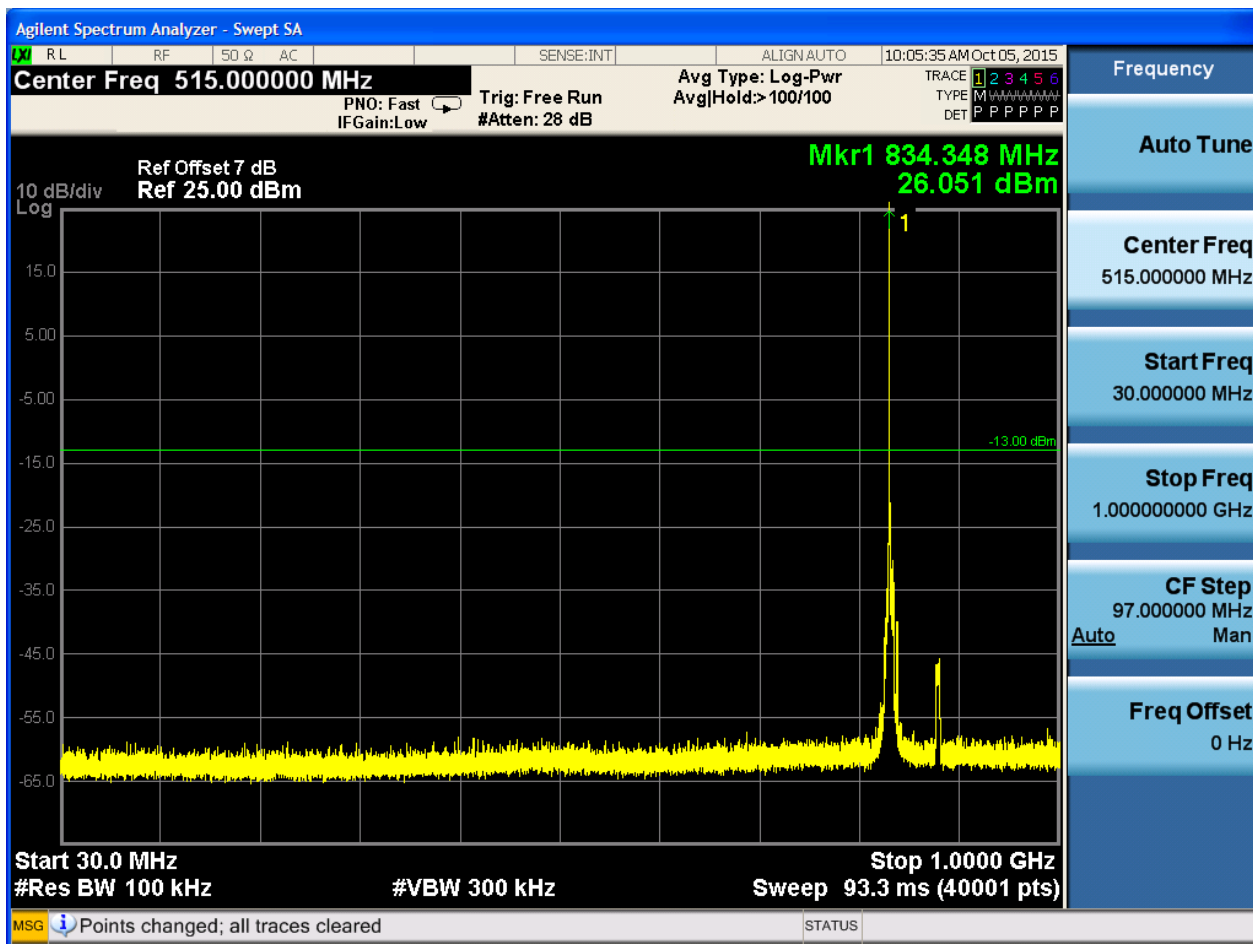


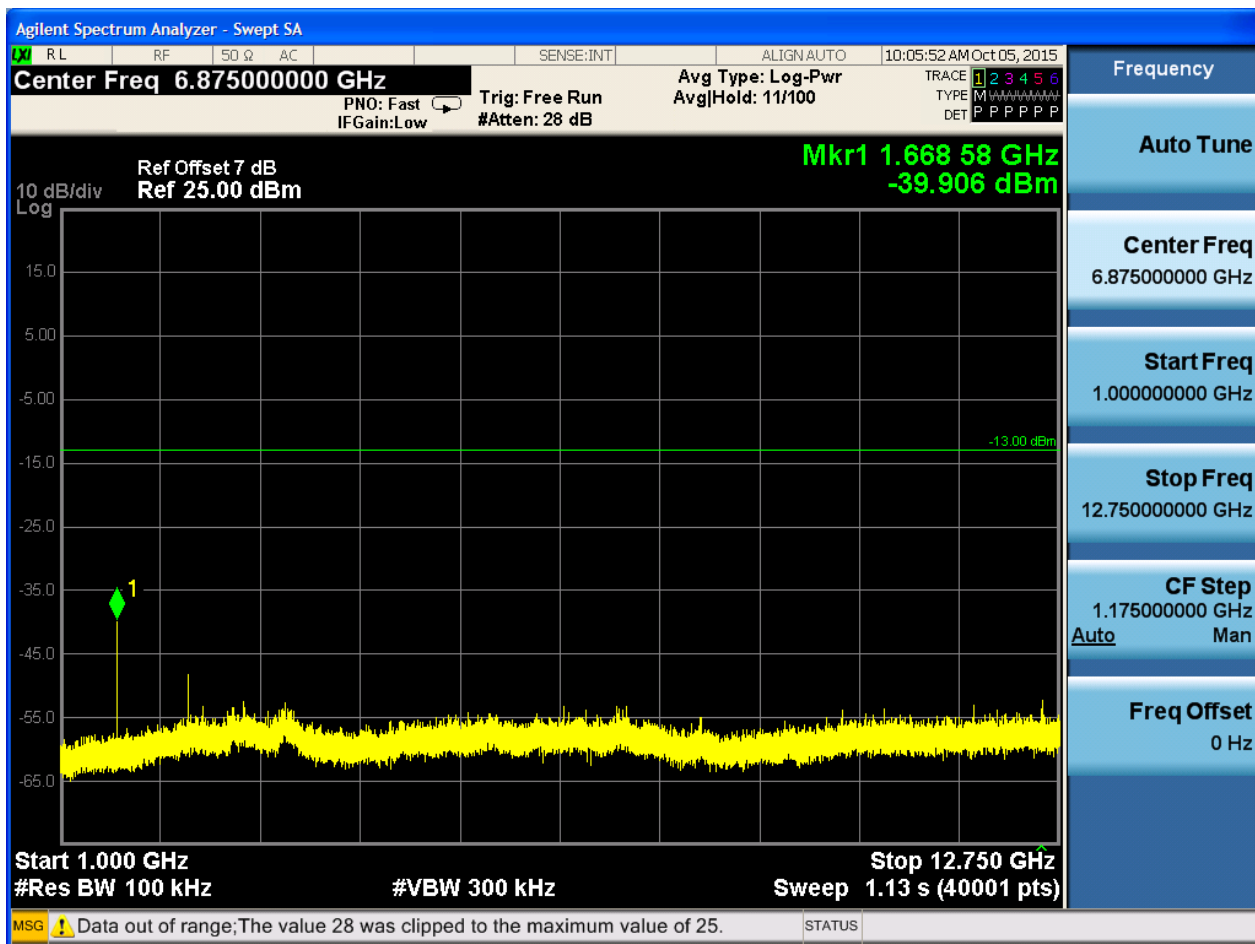
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



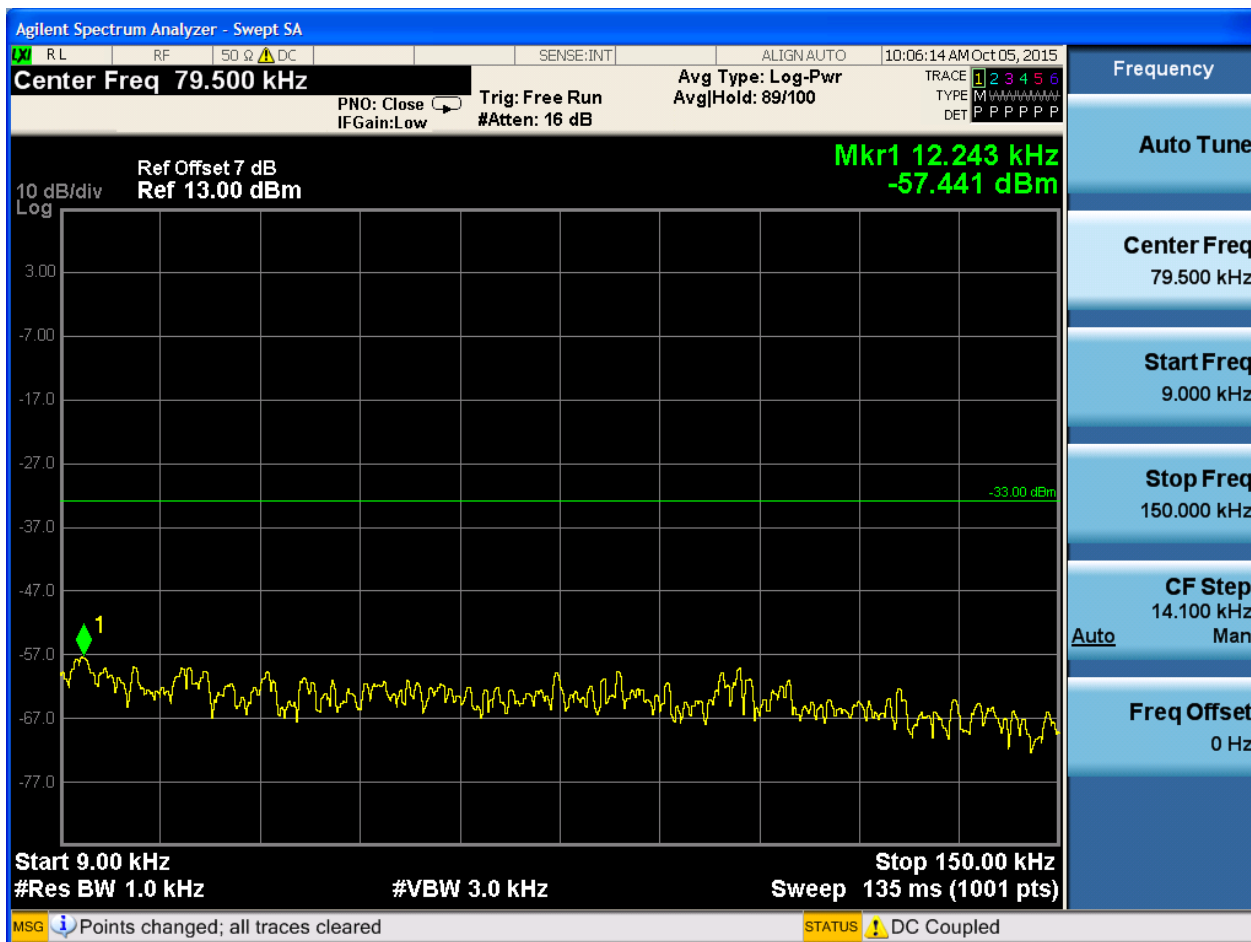




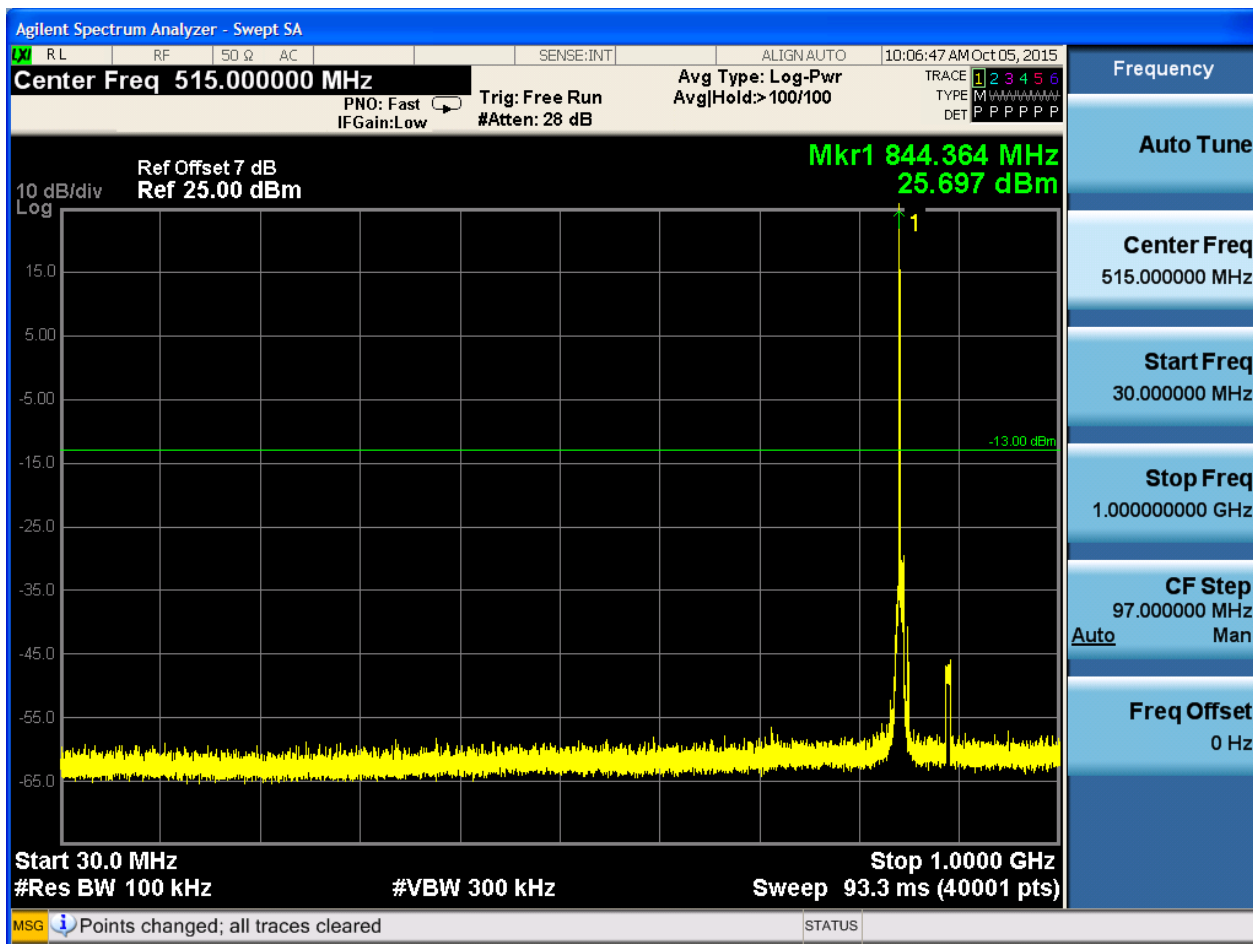


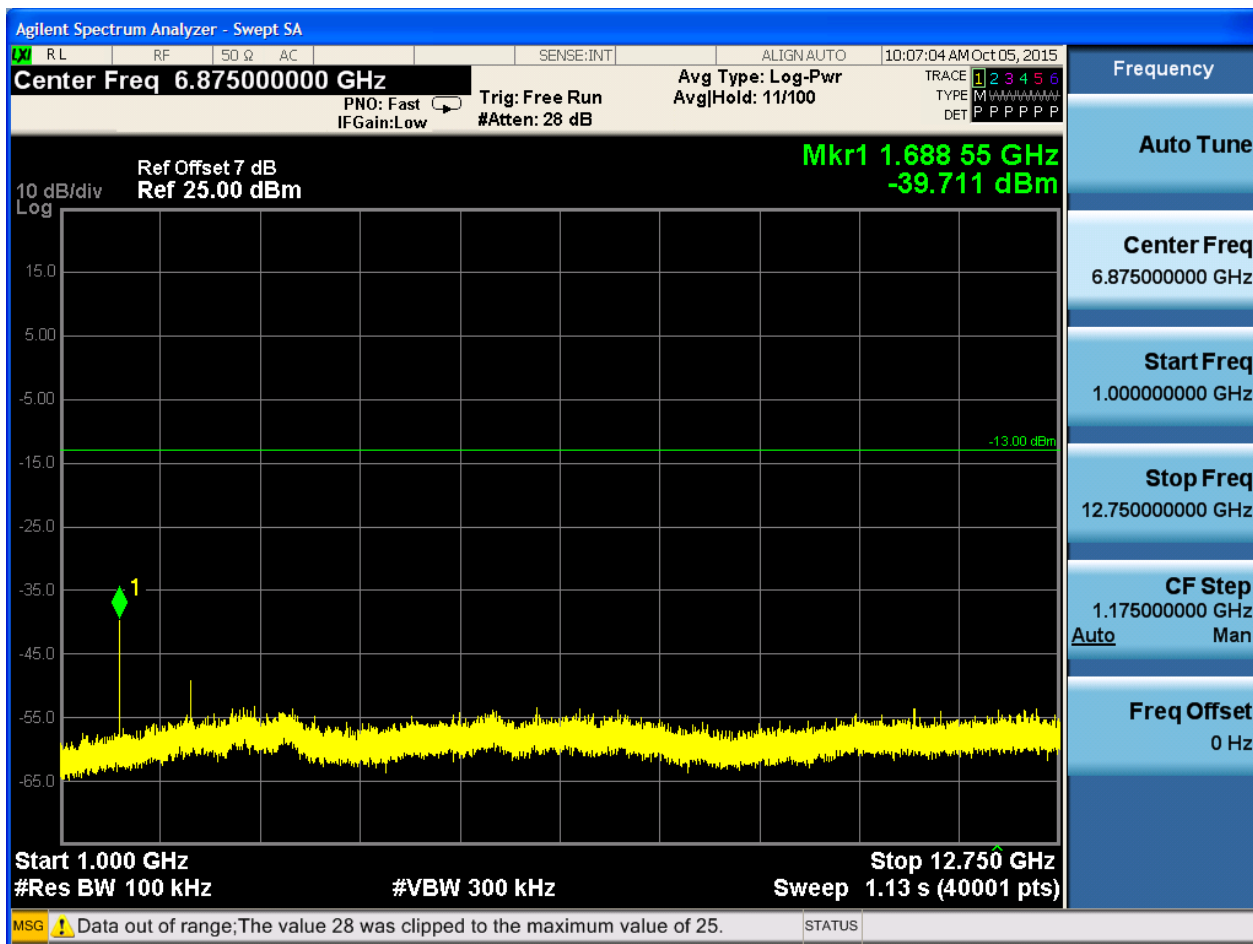
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







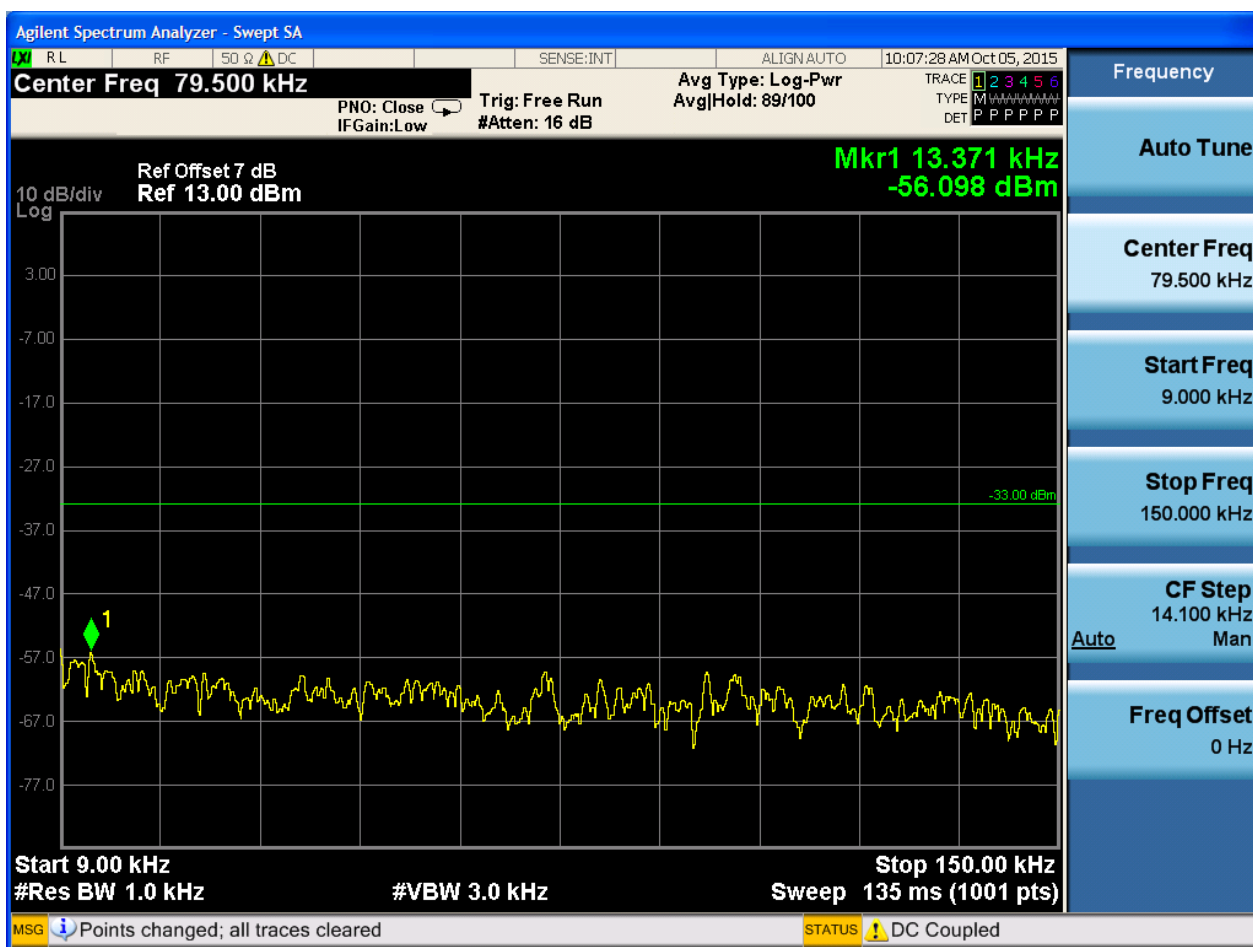


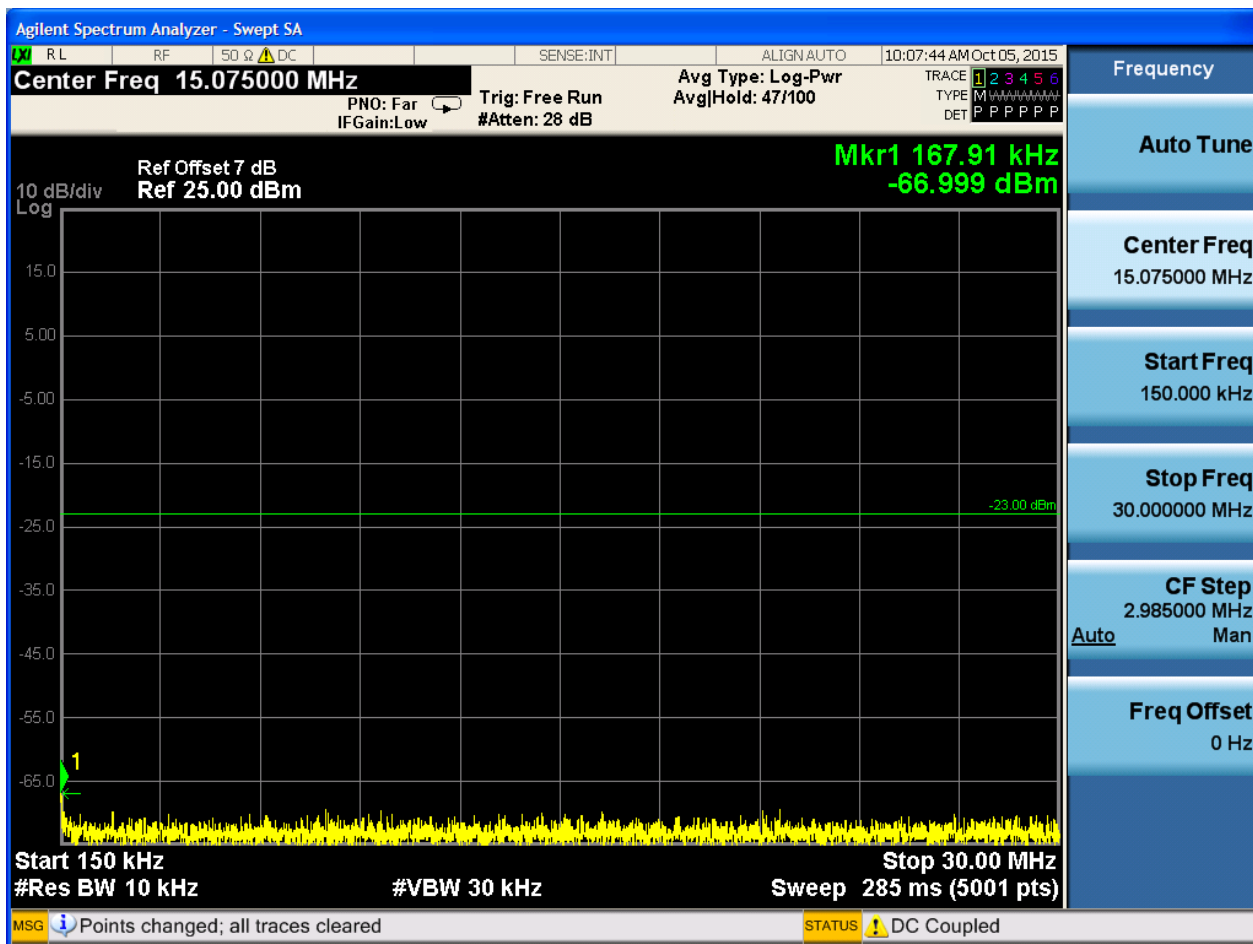


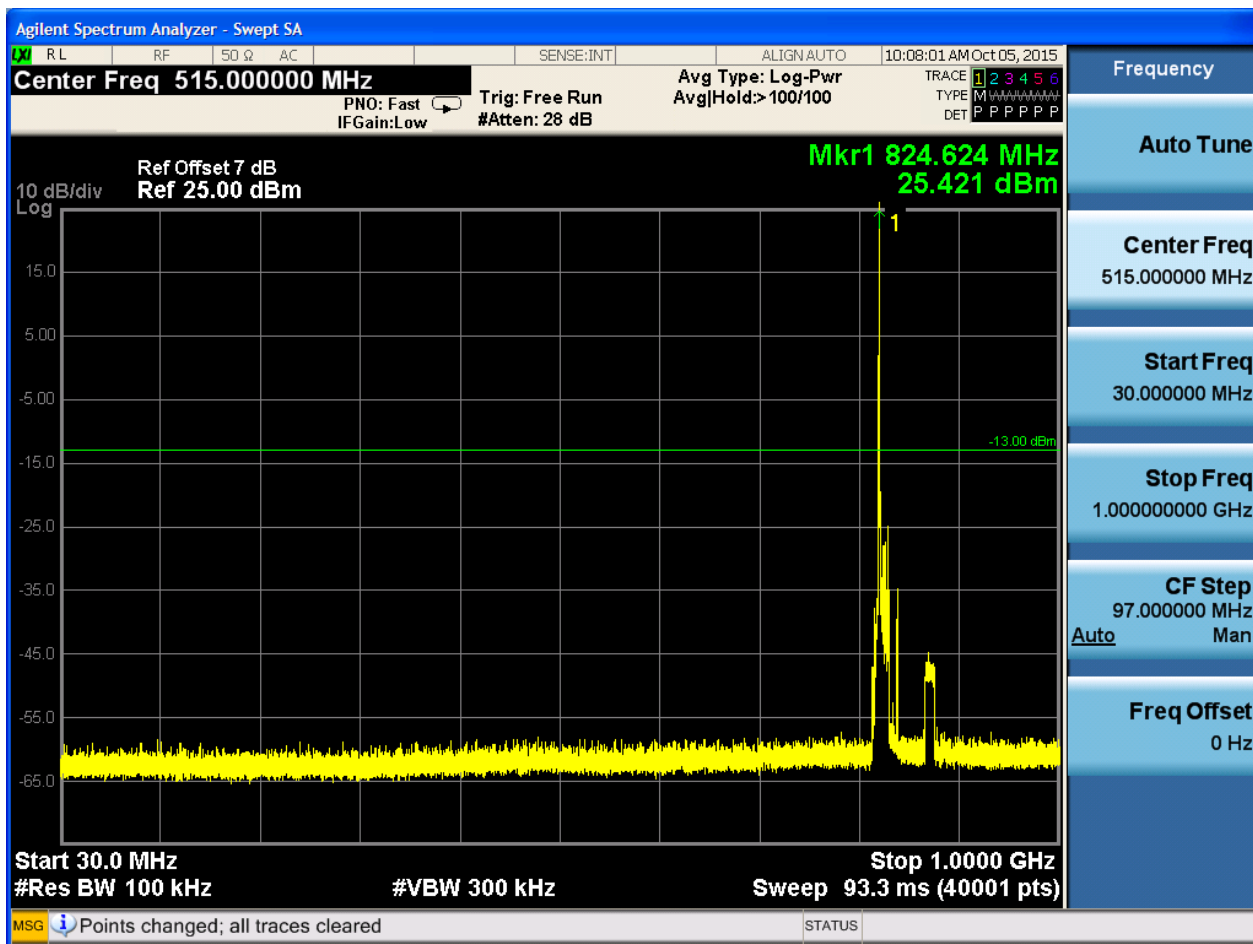
6.1.1.2.4 Test Bandwidth = 10

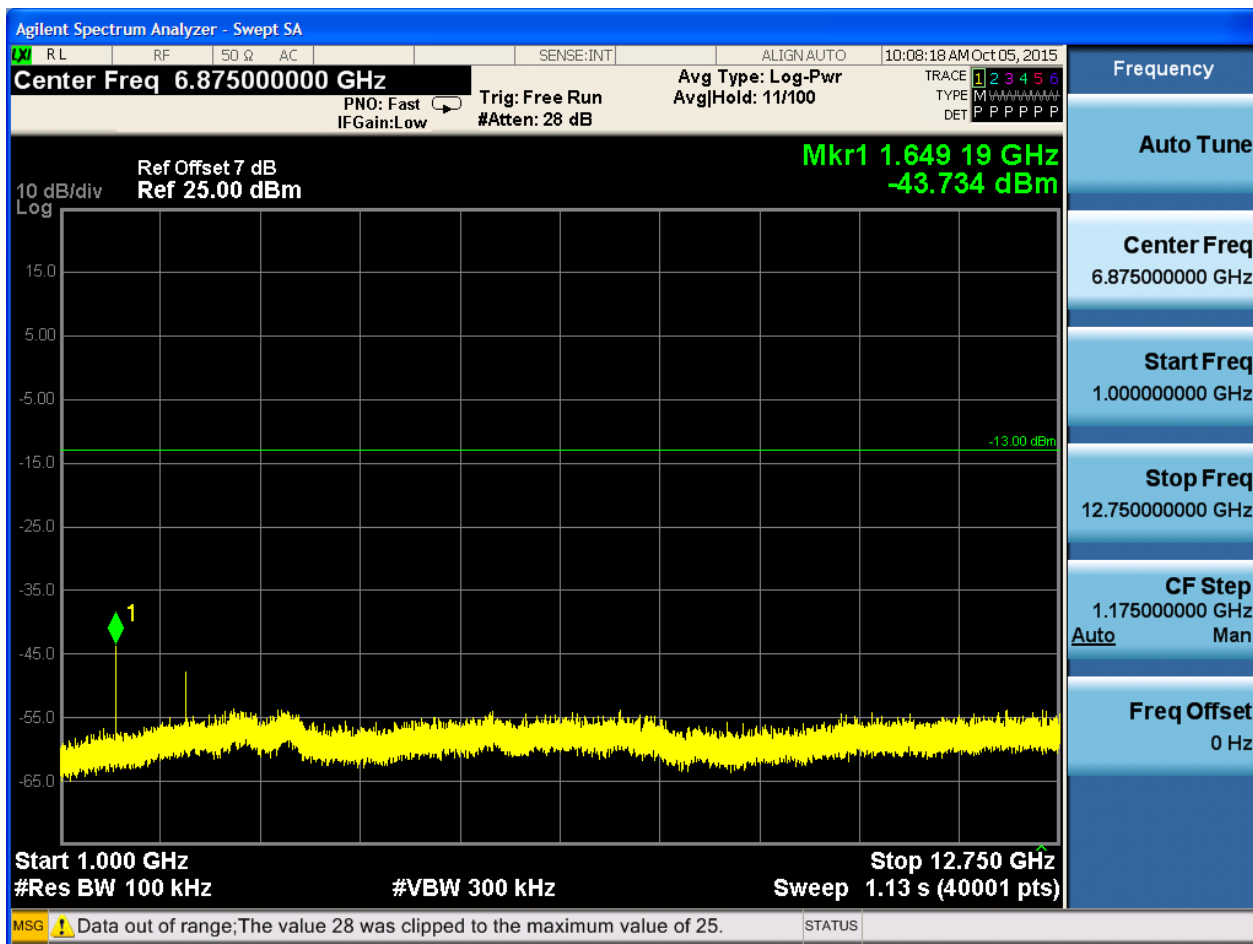
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



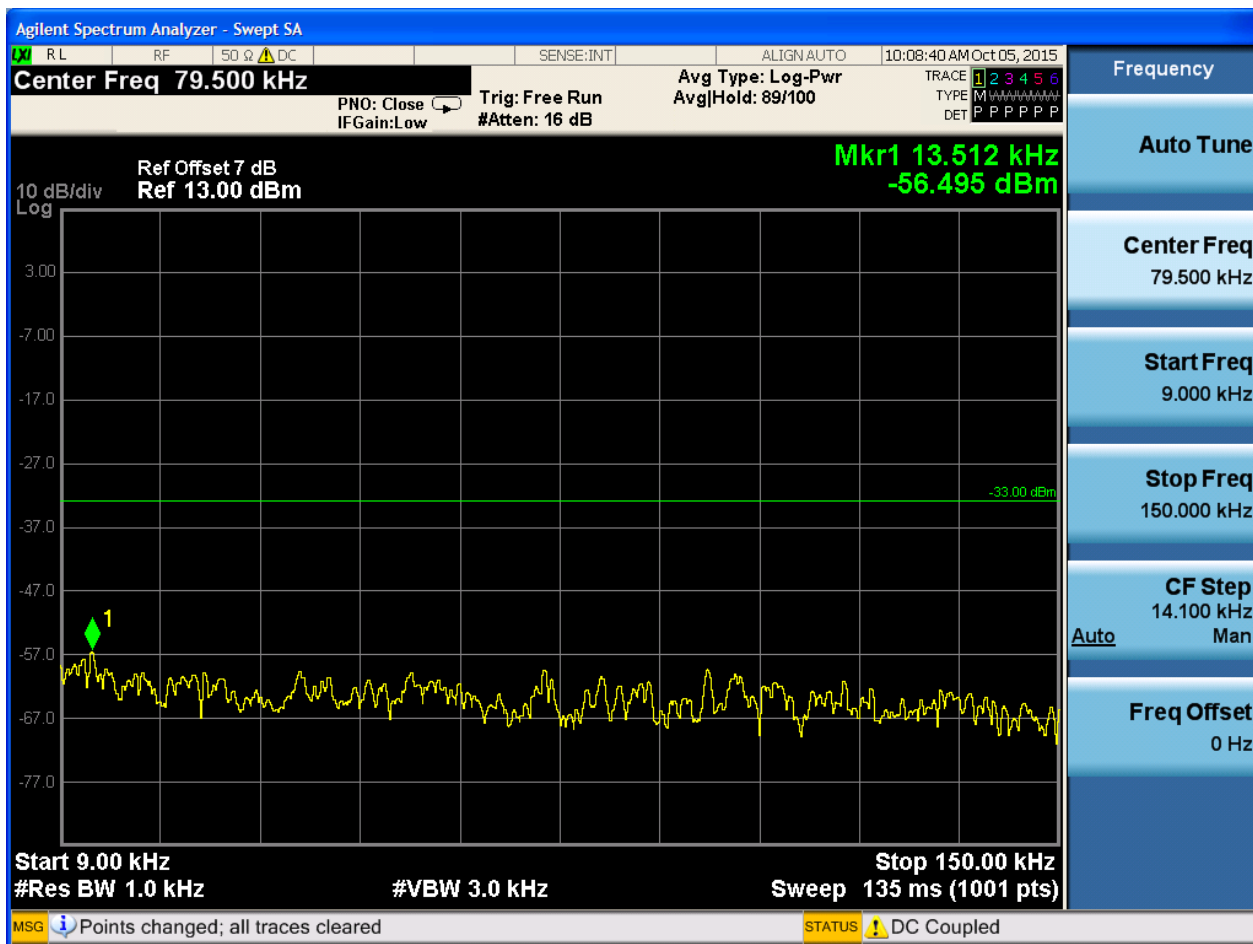




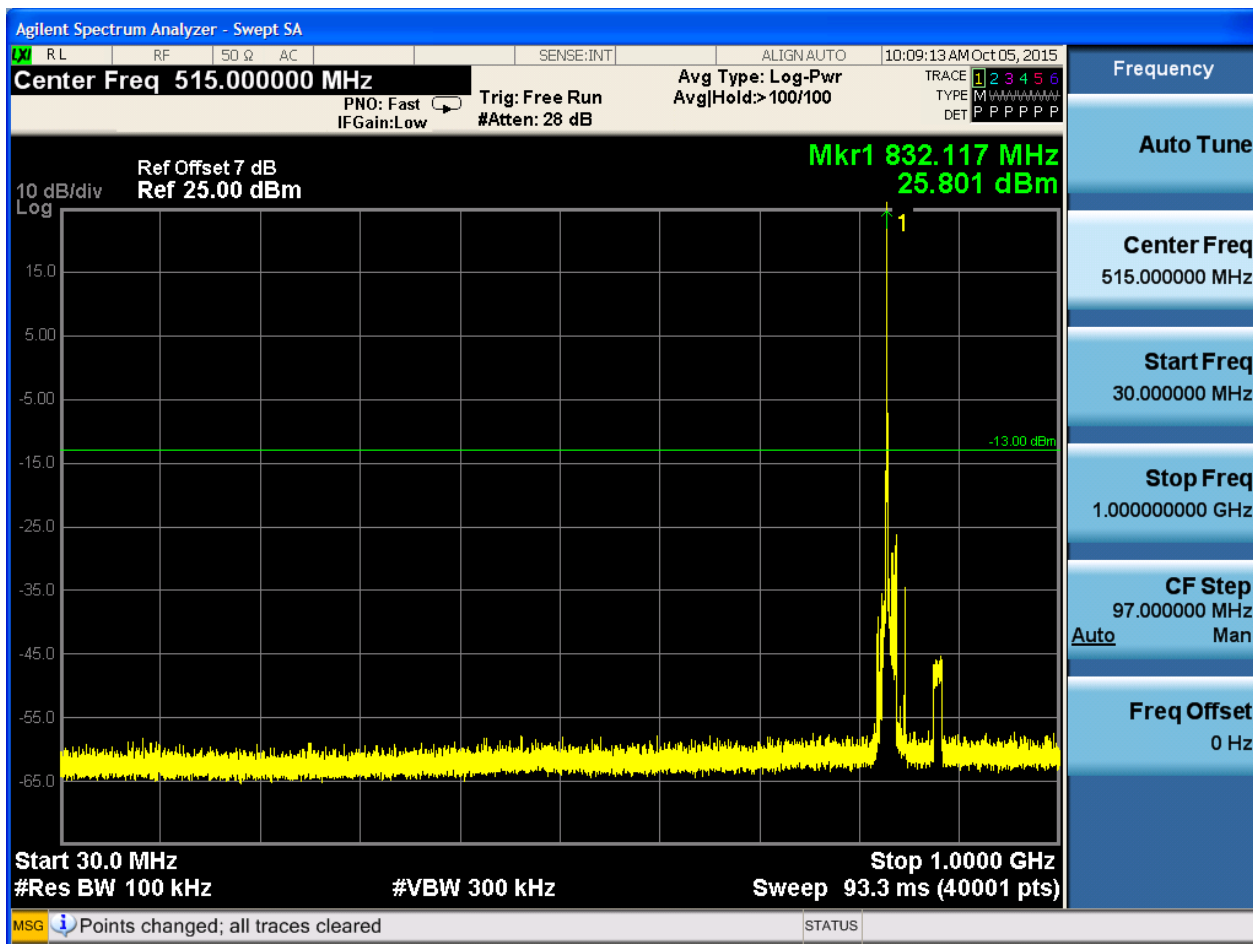


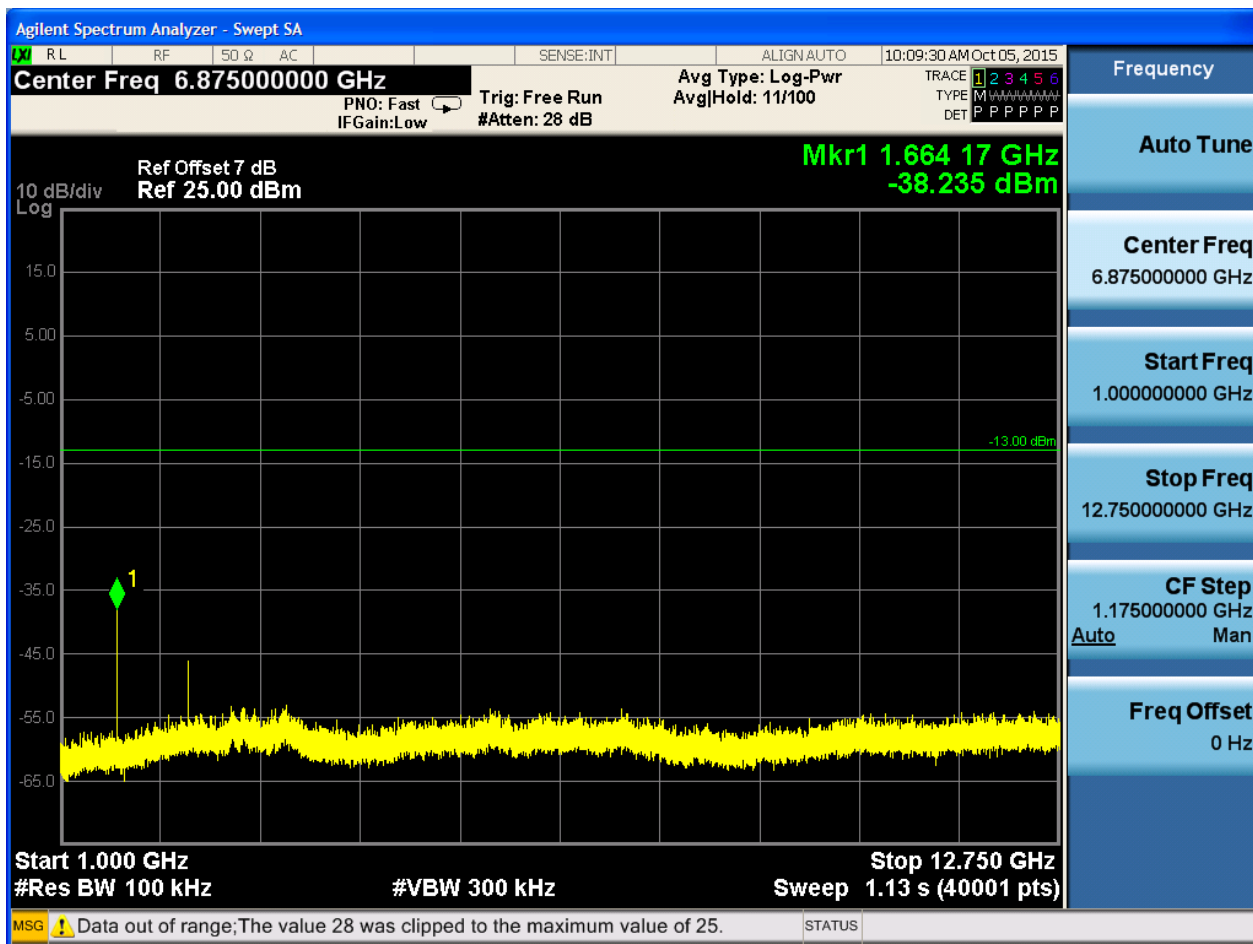
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



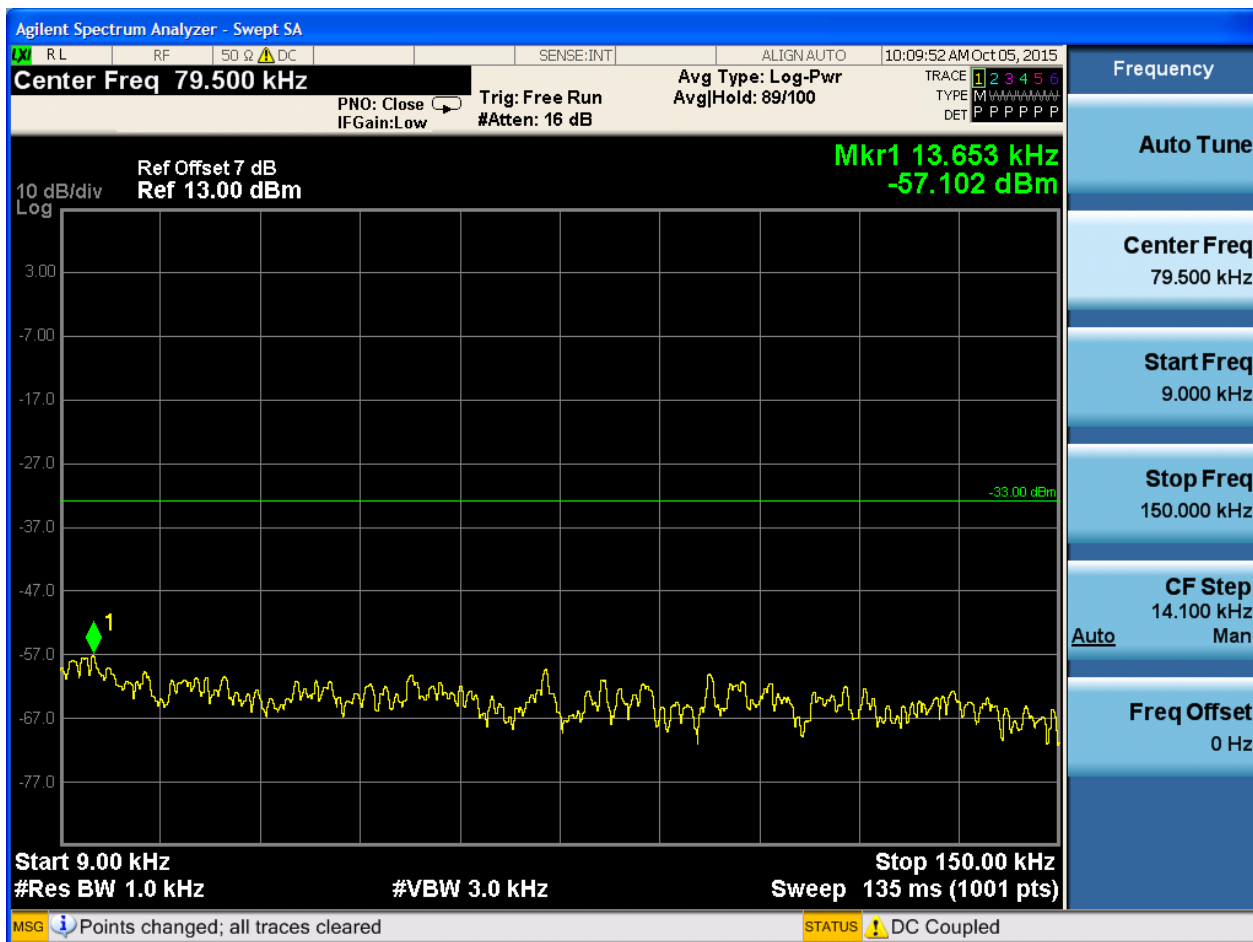


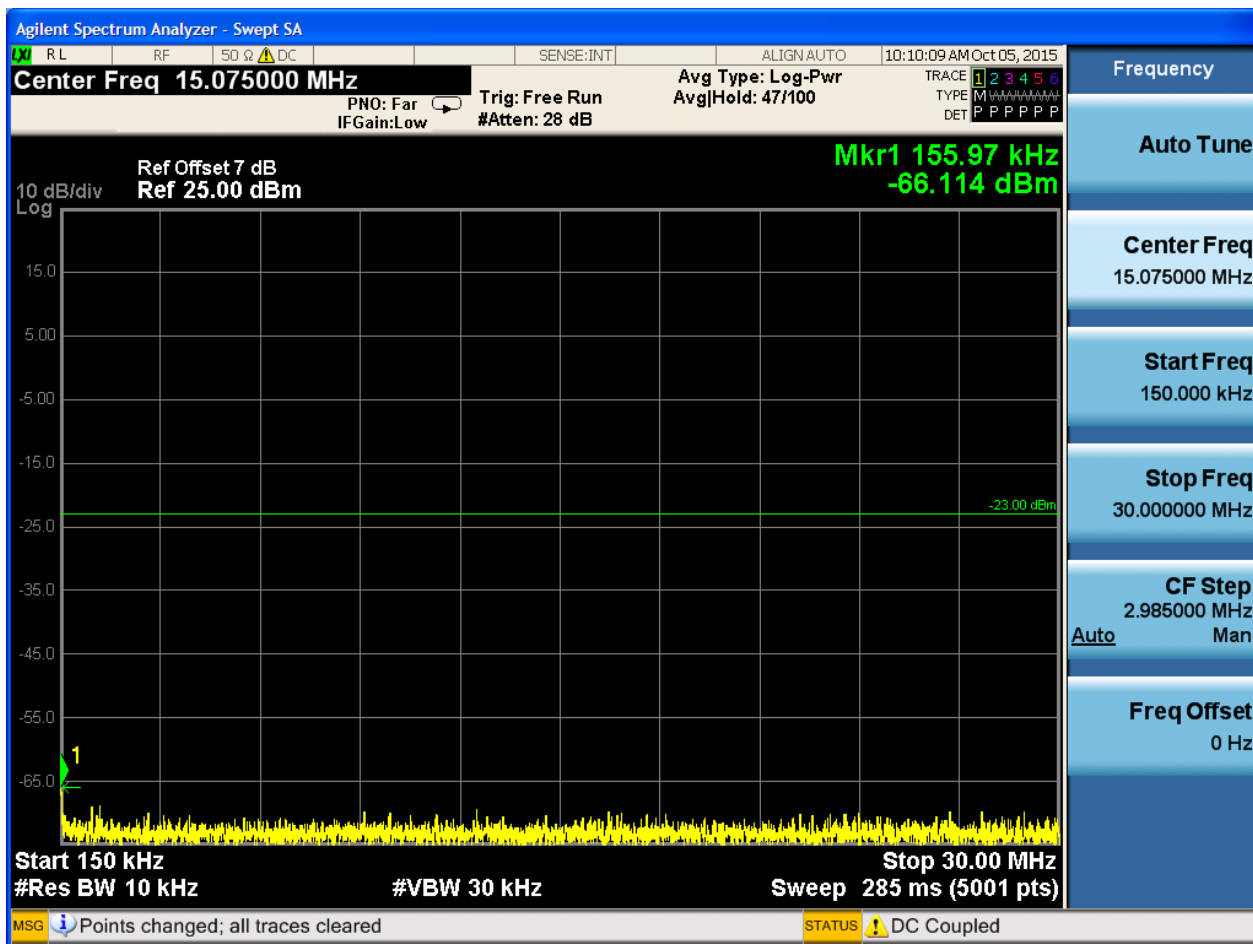


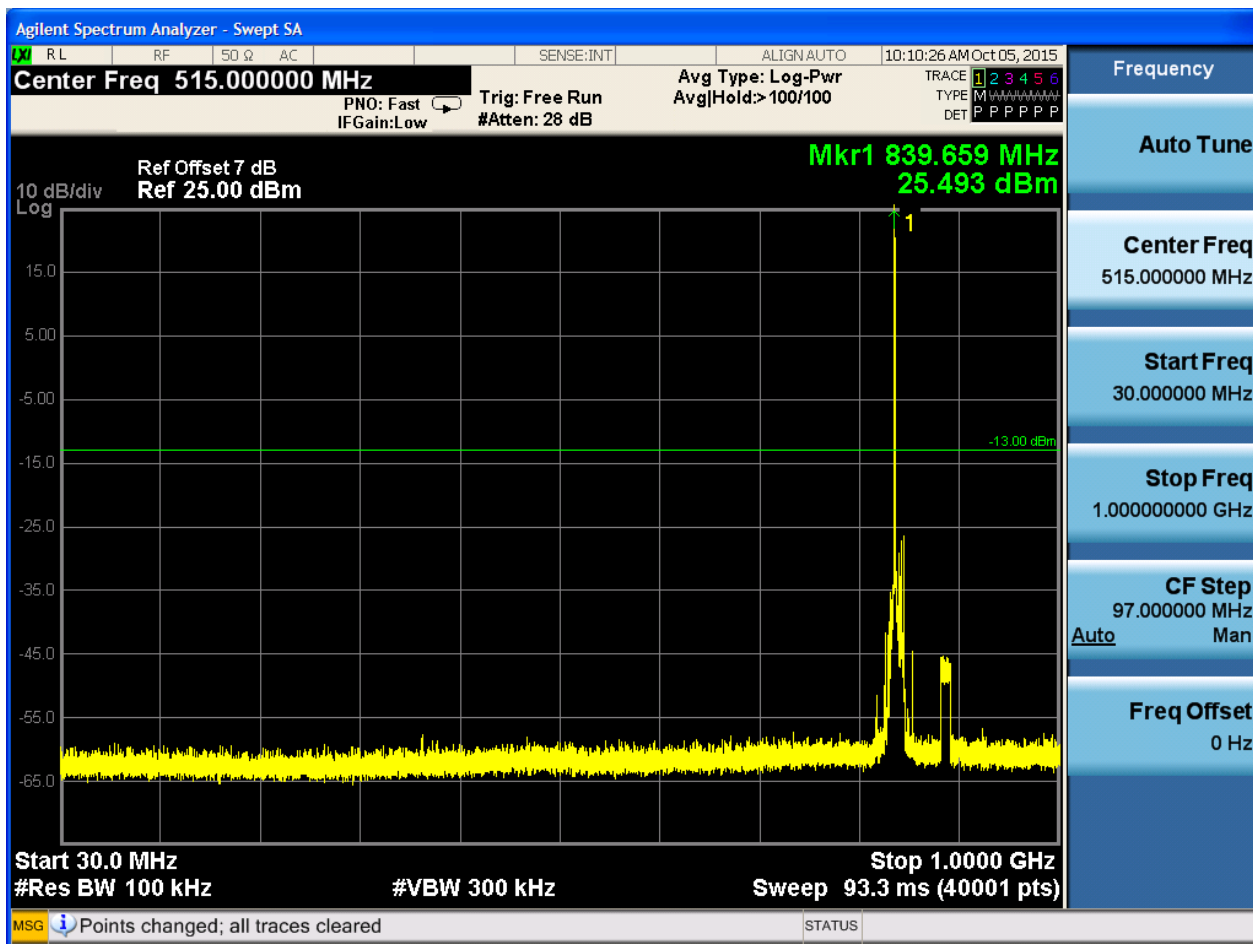


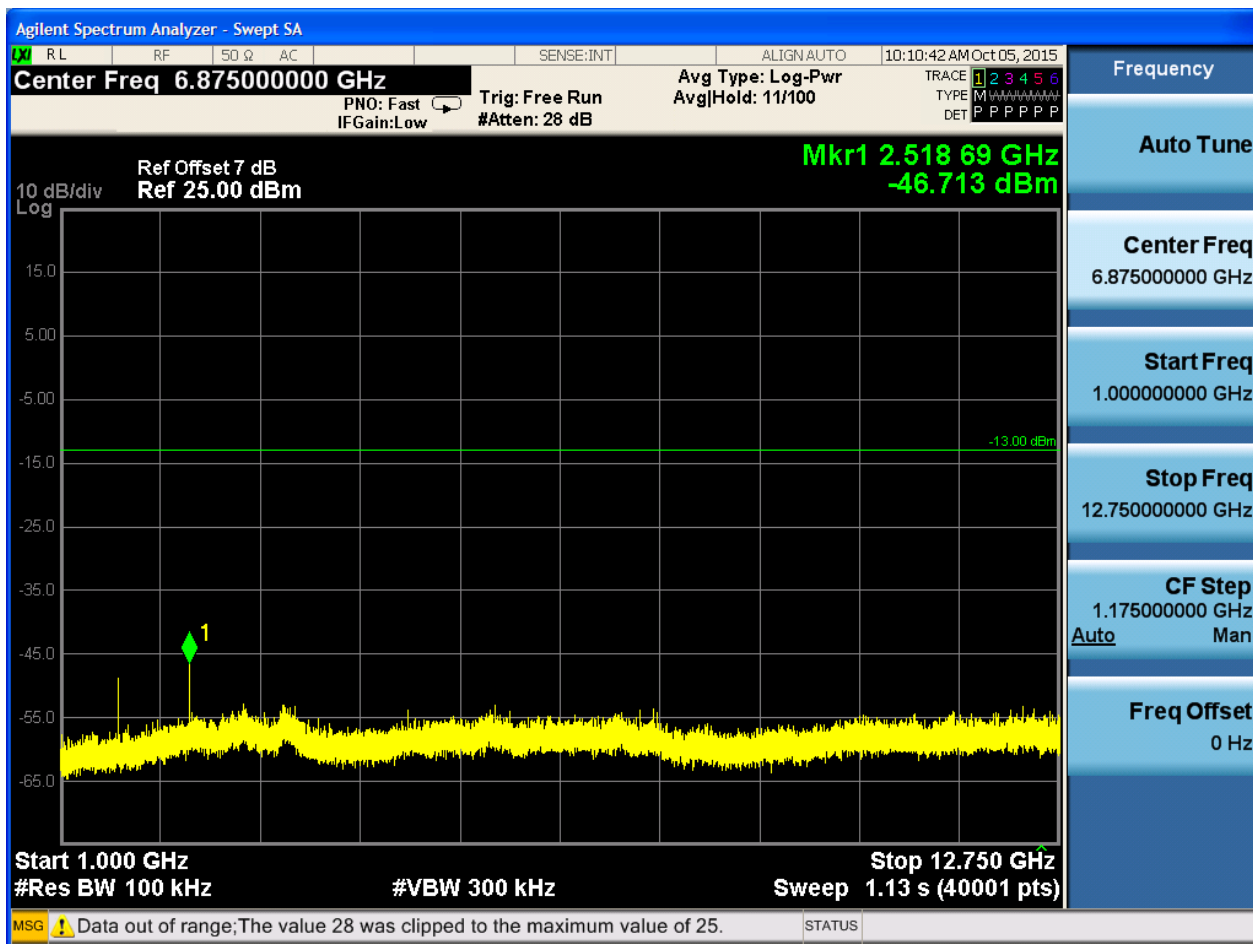
6.1.1.2.4.3 Test Channel = HCH

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

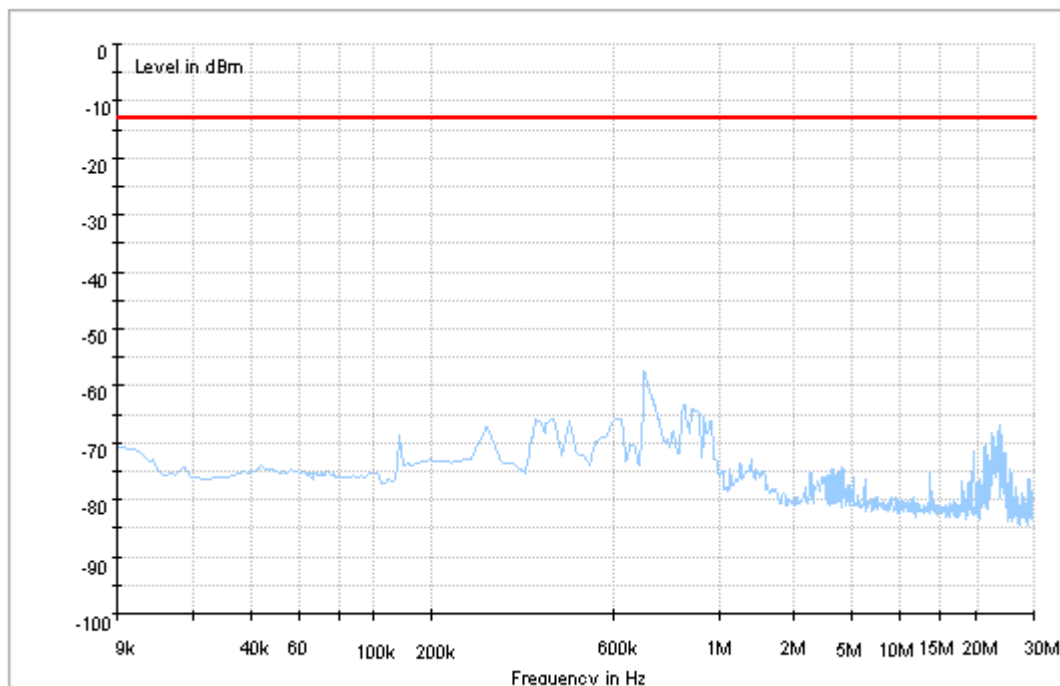
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

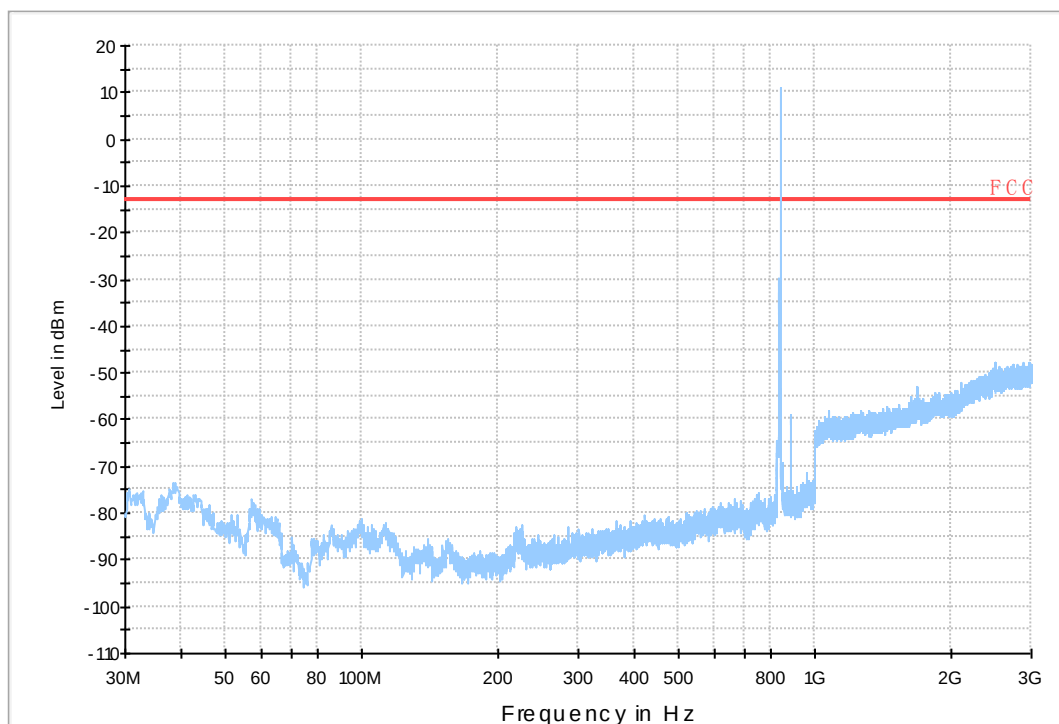
7.1 For LTE

7.1.1 Test Band = BAND5

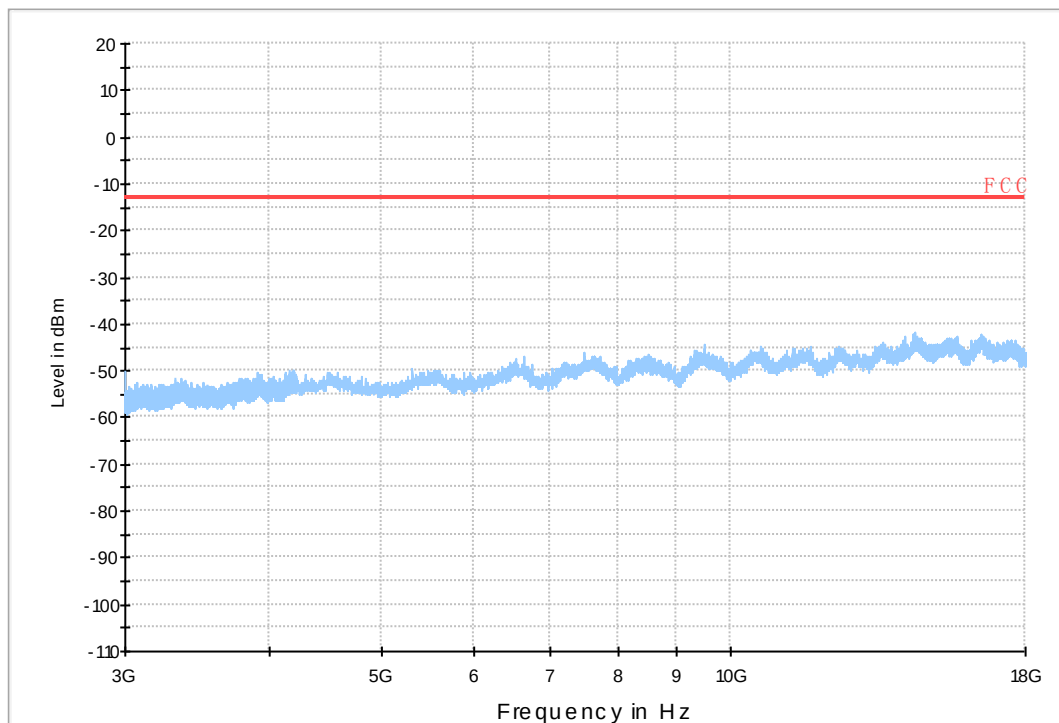
7.1.1.1 Test Bandwidth = 1.4



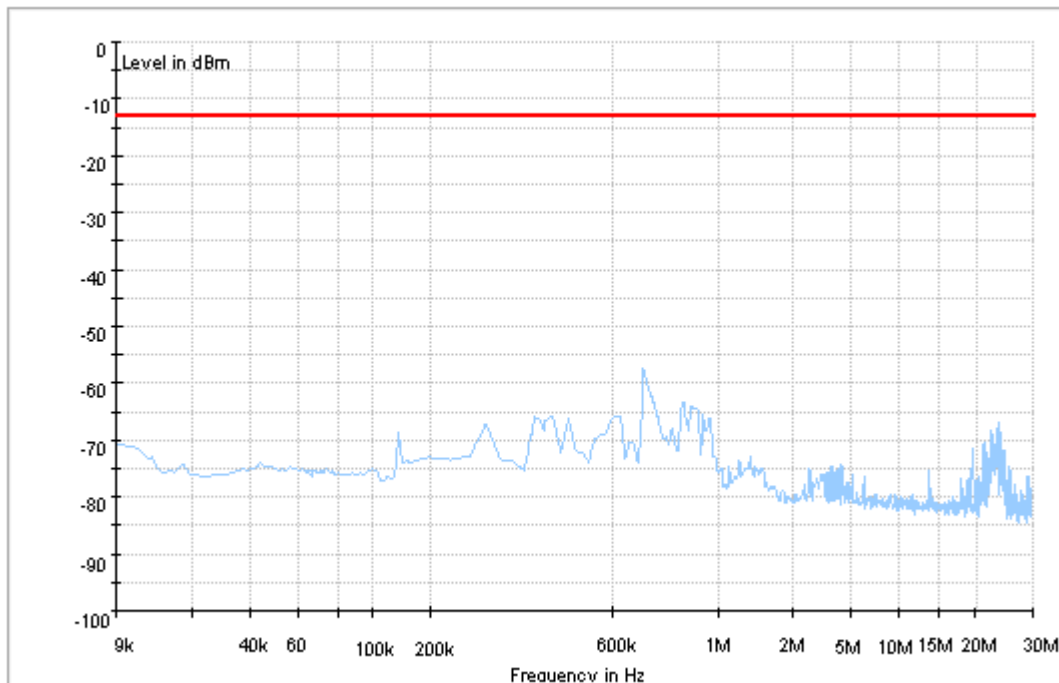
Copy of FCC PART22 LTE Band 5_L



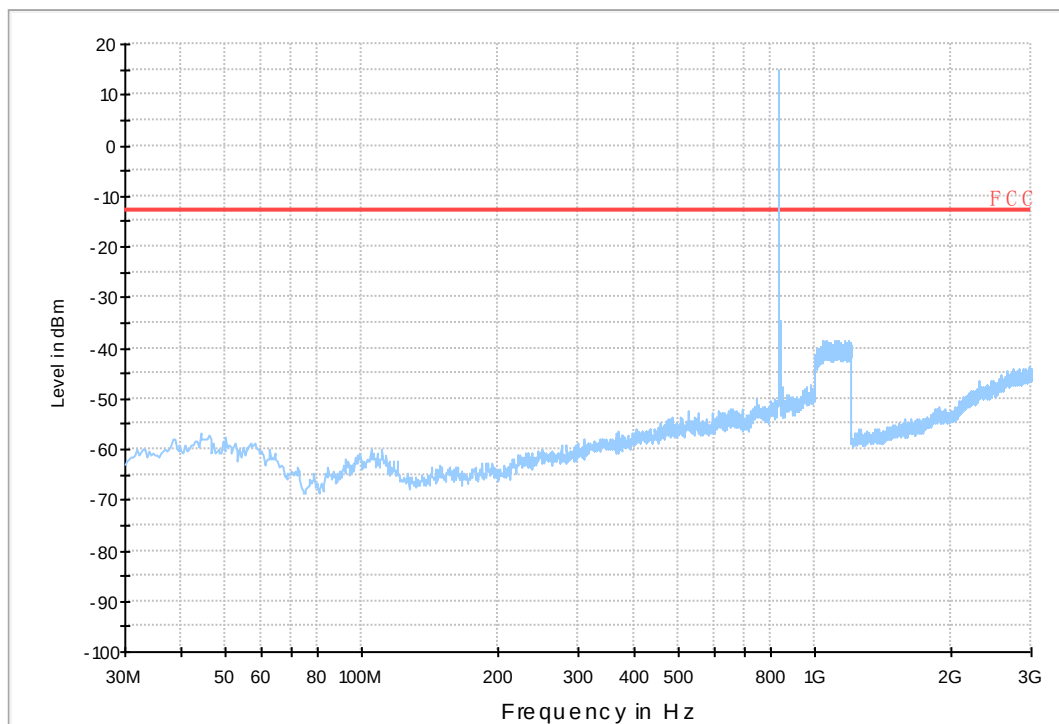
Copy of FCC PART22 LTE Band 5_H



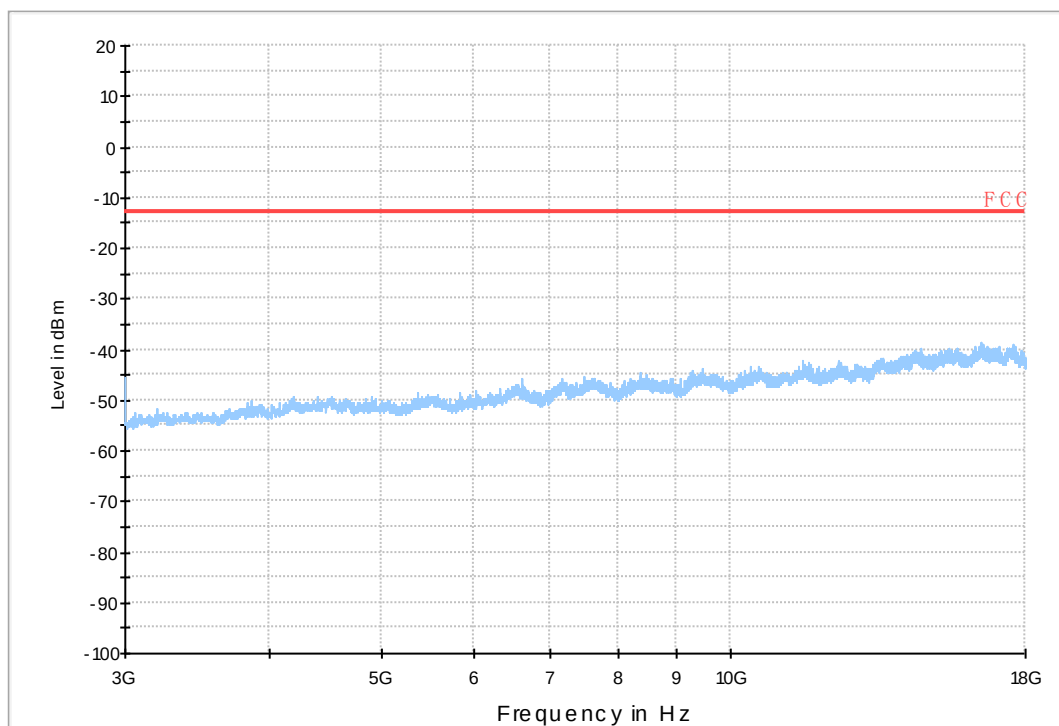
7.1.1.3 Test Bandwidth = 10



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	-0.43	-0.00052	PASS
					VN	-1.49	-0.00181	PASS
					VH	-0.49	-0.00059	PASS
			MCH	TN	VL	-0.4	-0.00048	PASS
					VN	-0.11	-0.00013	PASS
					VH	-0.92	-0.0011	PASS
			HCH	TN	VL	-0.76	-0.0009	PASS
					VN	-0.74	-0.00087	PASS
					VH	-0.27	-0.00032	PASS
		3	LCH	TN	VL	-2.1	-0.00254	PASS
					VN	2.43	0.00294	PASS
					VH	0.19	0.00023	PASS
			MCH	TN	VL	1.3	0.00155	PASS
					VN	-3.3	-0.00395	PASS
					VH	-1.03	-0.00123	PASS
			HCH	TN	VL	1.12	0.00132	PASS
					VN	-2.73	-0.00322	PASS
					VH	-5.95	-0.00702	PASS
		5	LCH	TN	VL	-2.95	-0.00357	PASS
					VN	-6.45	-0.0078	PASS
					VH	-3.49	-0.00422	PASS
			MCH	TN	VL	-0.74	-0.00088	PASS
					VN	-6.01	-0.00718	PASS
					VH	-2.49	-0.00298	PASS
			HCH	TN	VL	-5.88	-0.00695	PASS
					VN	-2.78	-0.00328	PASS
					VH	-0.3	-0.00035	PASS
		10	LCH	TN	VL	1.56	0.00188	PASS
					VN	1.26	0.00152	PASS
					VH	-3.32	-0.004	PASS
			MCH	TN	VL	7.5	0.00897	PASS
					VN	3.72	0.00445	PASS
					VH	4.23	0.00506	PASS
			HCH	TN	VL	5.54	0.00656	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	4.79	0.00568	PASS
					VH	3.72	0.00441	PASS
		1.4	LCH	TN	VL	-2.1	-0.00255	PASS
					VN	-2.57	-0.00312	PASS
					VH	-1.97	-0.00239	PASS
					VL	-1.22	-0.00146	PASS
			MCH	TN	VN	-0.04	-0.00005	PASS
					VH	-1.93	-0.00231	PASS
					VL	-0.6	-0.00071	PASS
					VN	0.67	0.00079	PASS
			HCH	TN	VH	-0.6	-0.00071	PASS
					VL	-2.78	-0.00337	PASS
					VN	-0.3	-0.00036	PASS
					VH	3.22	0.0039	PASS
		3	LCH	TN	VL	3.28	0.00392	PASS
					VN	3.15	0.00377	PASS
					VH	-2.92	-0.00349	PASS
			MCH	TN	VL	-0.86	-0.00101	PASS
					VN	-2.85	-0.00336	PASS
					VH	1.33	0.00157	PASS
			HCH	TN	VL	0.11	0.00013	PASS
					VN	1.87	0.00226	PASS
					VH	-1.56	-0.00189	PASS
			LCH	TN	VL	3.12	0.00373	PASS
					VN	-2.2	-0.00263	PASS
					VH	1.3	0.00155	PASS
		5	LCH	TN	VL	-0.72	-0.00085	PASS
					VN	-3.06	-0.00361	PASS
					VH	-2.33	-0.00275	PASS
			MCH	TN	VL	-1.7	-0.00205	PASS
					VN	0.16	0.00019	PASS
					VH	1.26	0.00152	PASS
			HCH	TN	VL	2.13	0.00255	PASS
					VN	3.18	0.0038	PASS
					VH	2.57	0.00307	PASS
		10	LCH	TN	VL	2.27	0.00269	PASS
					VN	5.15	0.0061	PASS
					VH	3.03	0.00359	PASS
			MCH	TN	VL	2.27	0.00269	PASS
					VN	5.15	0.0061	PASS
			HCH	TN	VL	2.27	0.00269	PASS
					VN	5.15	0.0061	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	-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
					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

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	50	-0.07	-0.00008	PASS
					-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
					50	-0.29	-0.00035	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
					50	-2.89	-0.00341	PASS
		5	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
					30	1.34	0.0016	PASS
					40	4.29	0.00513	PASS
					50	-3.22	-0.00385	PASS
			HCH	VN	-30	0.77	0.00091	PASS
					-20	1.9	0.00224	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-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
			MCH	VN	-30	-123	-0.14704	PASS
					-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
			HCH	VN	-30	0.59	0.0007	PASS
					-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
	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

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					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
					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

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	VN	50	-4.58	-0.00548	PASS
					-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
					30	0.47	0.00055	PASS
					40	6.87	0.00811	PASS
					50	-2.09	-0.00247	PASS
		5	LCH	VN	-30	8.73	0.01056	PASS
					-20	14.25	0.01724	PASS
					-10	0.73	0.00088	PASS
					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
			MCH	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
			HCH	VN	-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
					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

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	0.63	0.00076	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