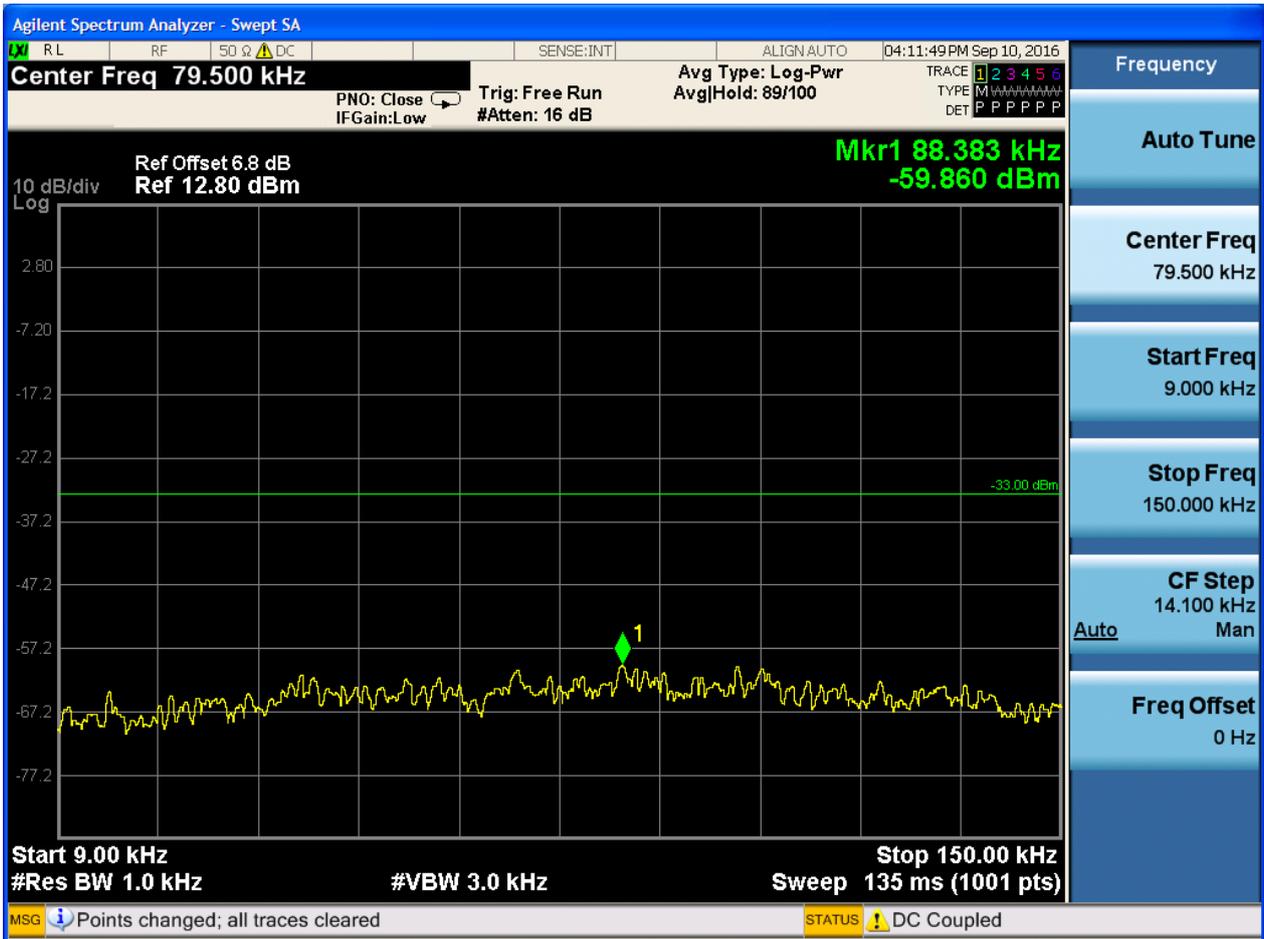




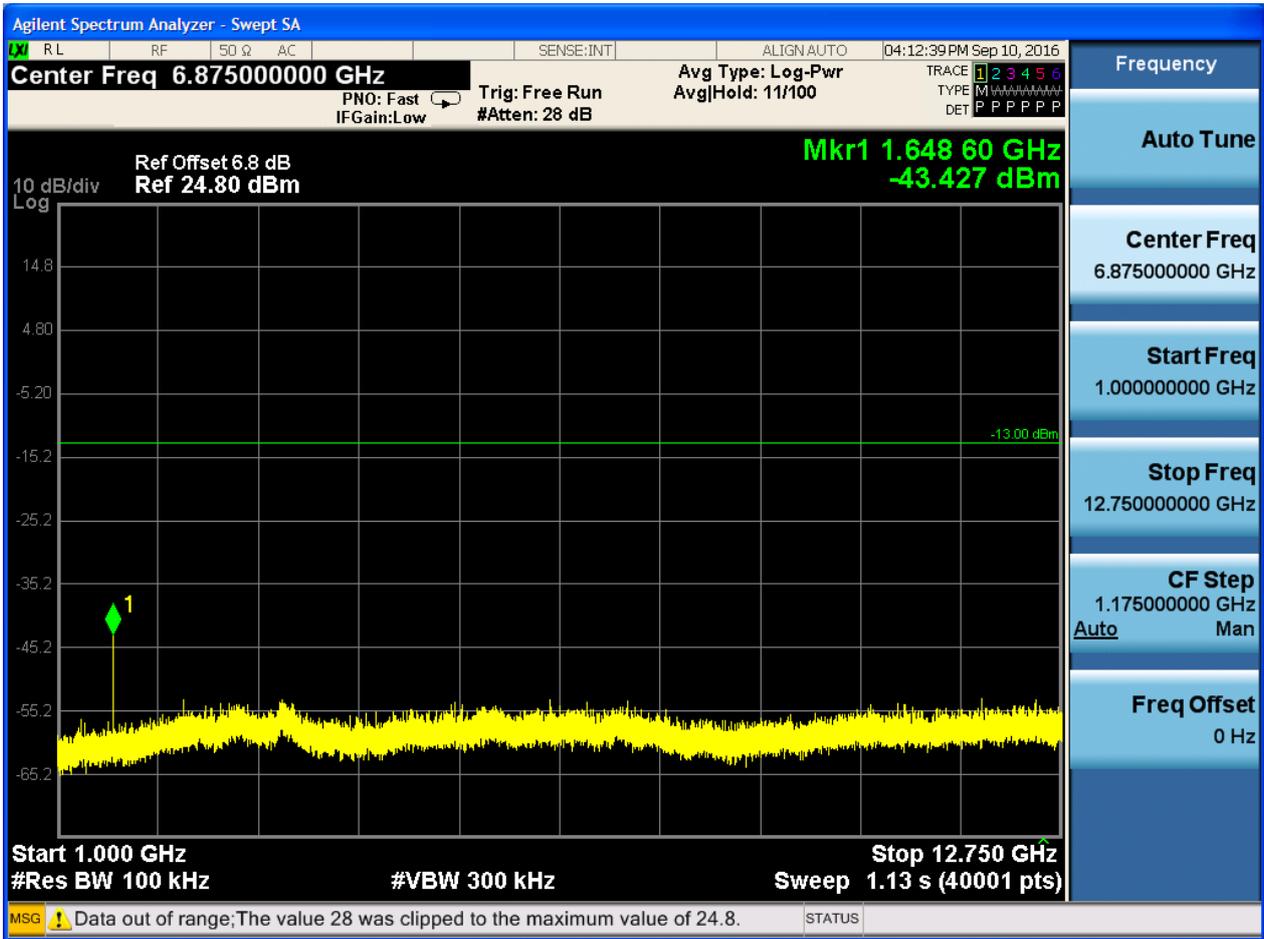
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



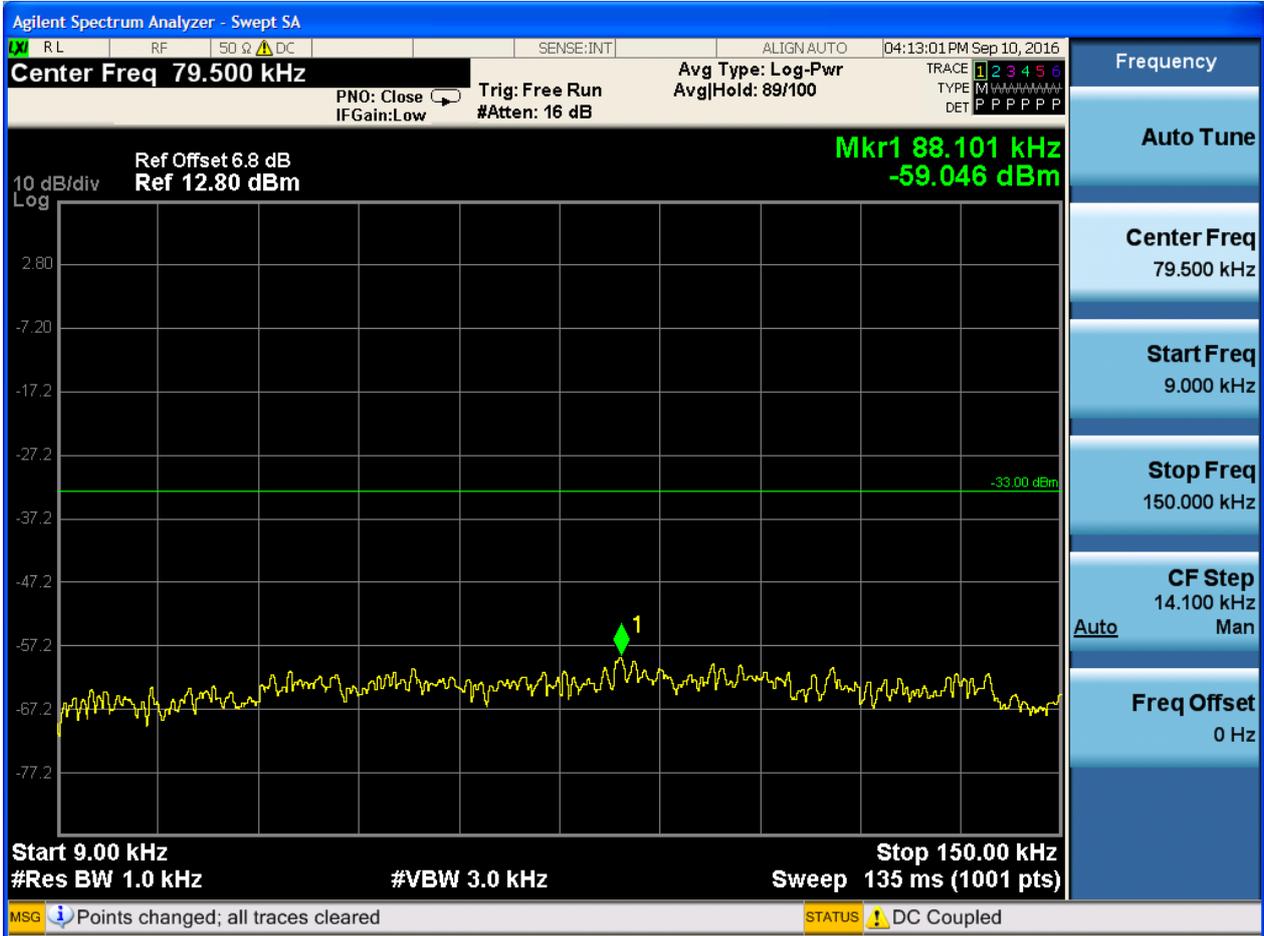




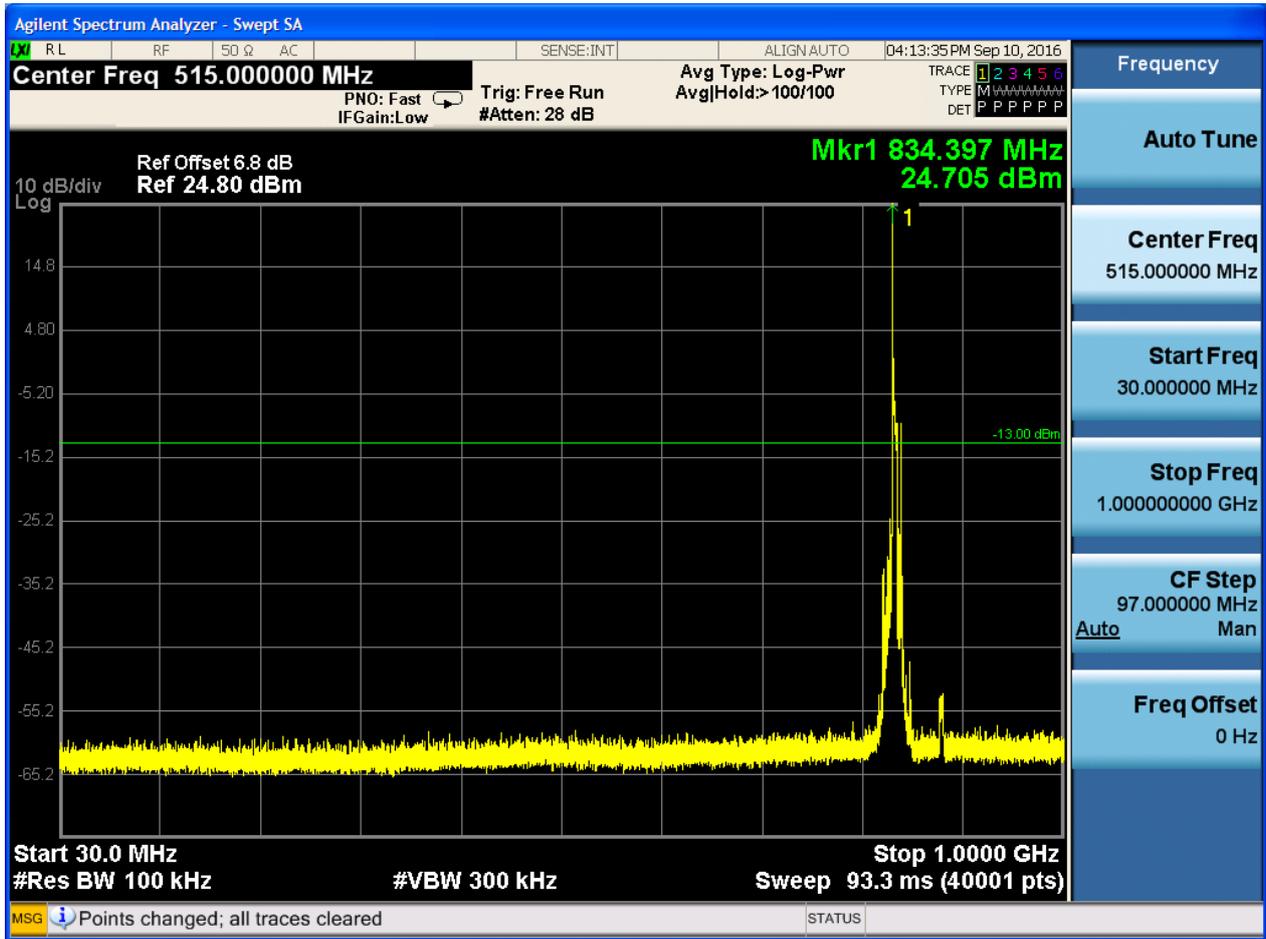


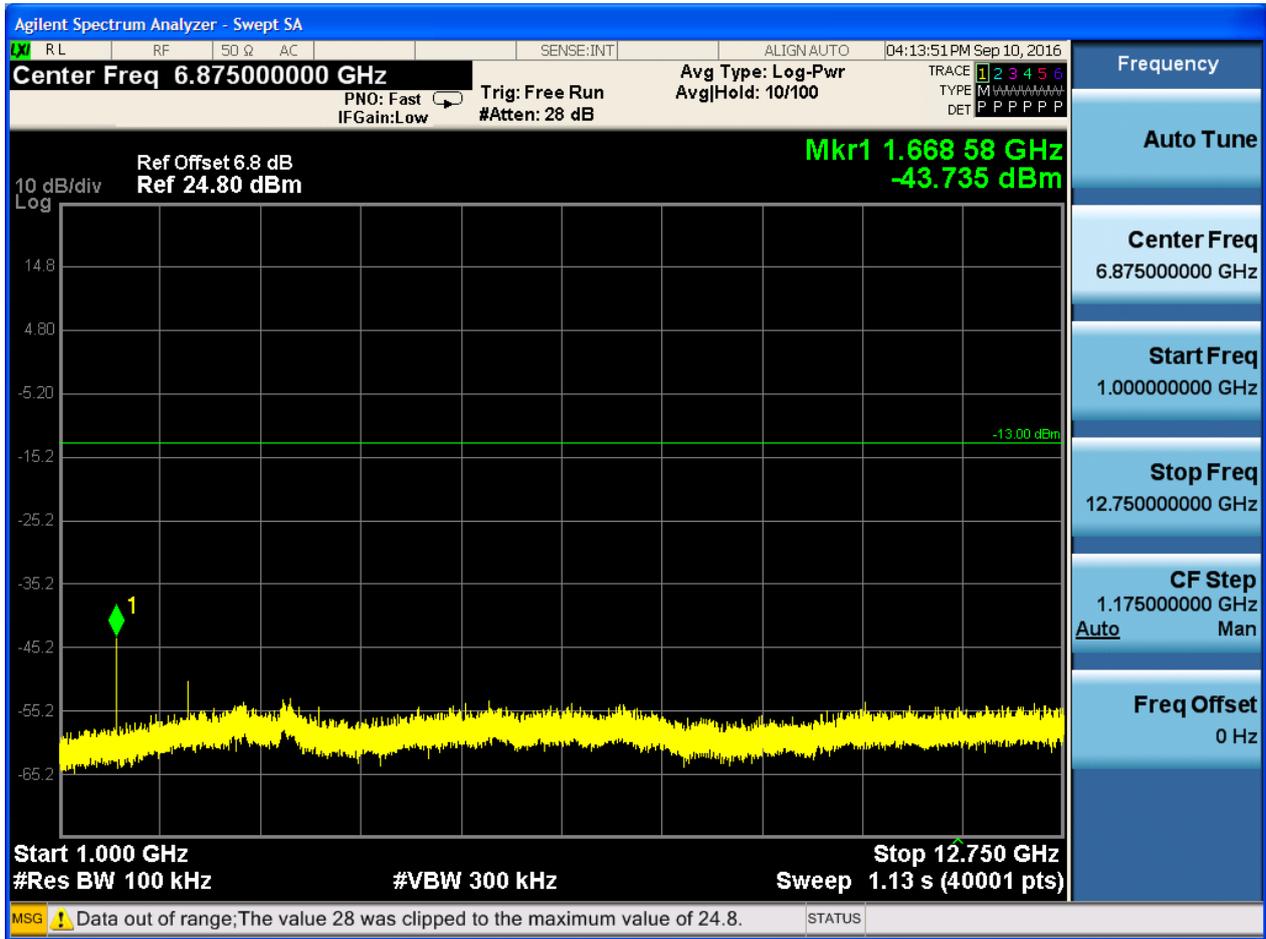
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





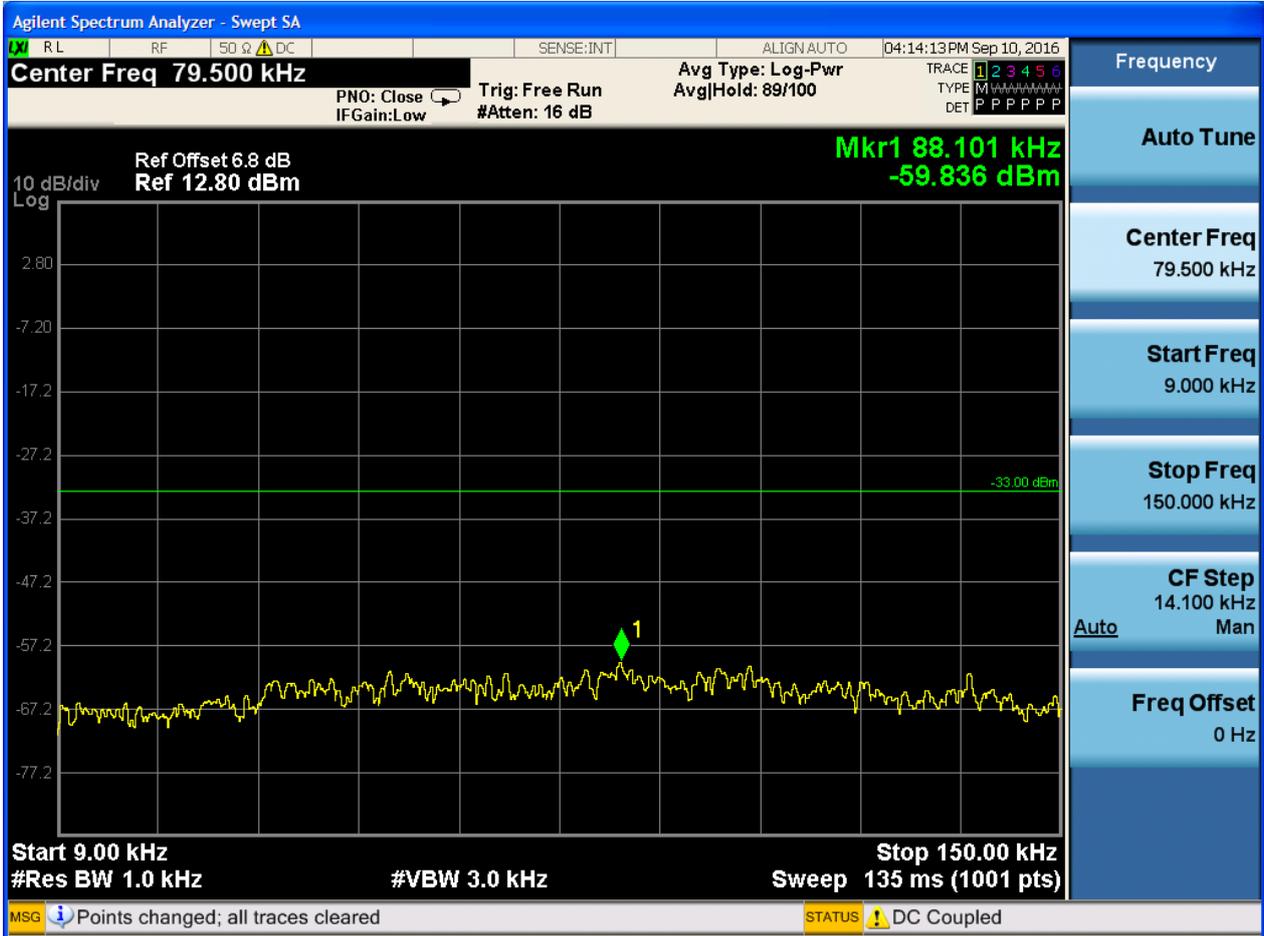




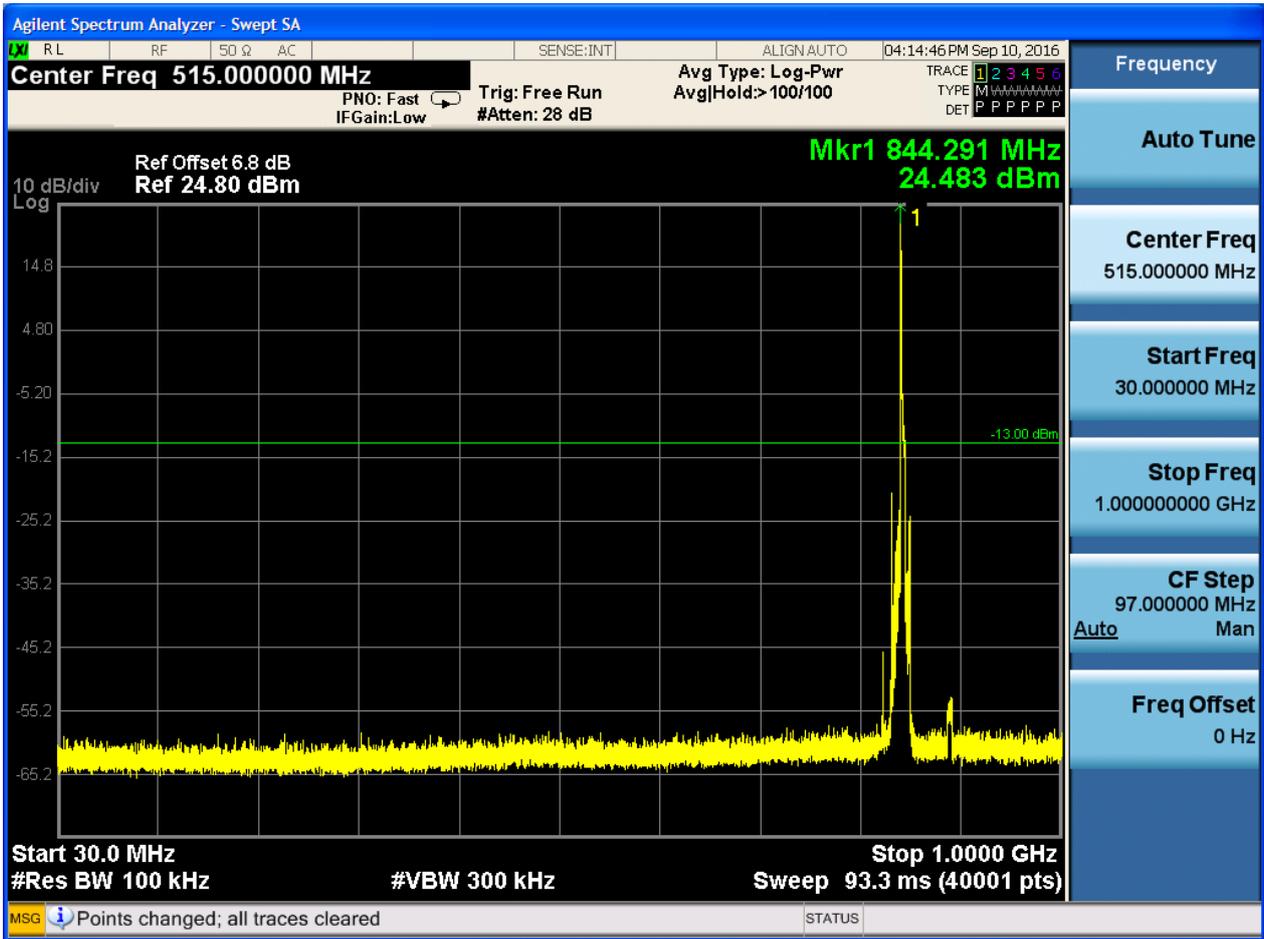


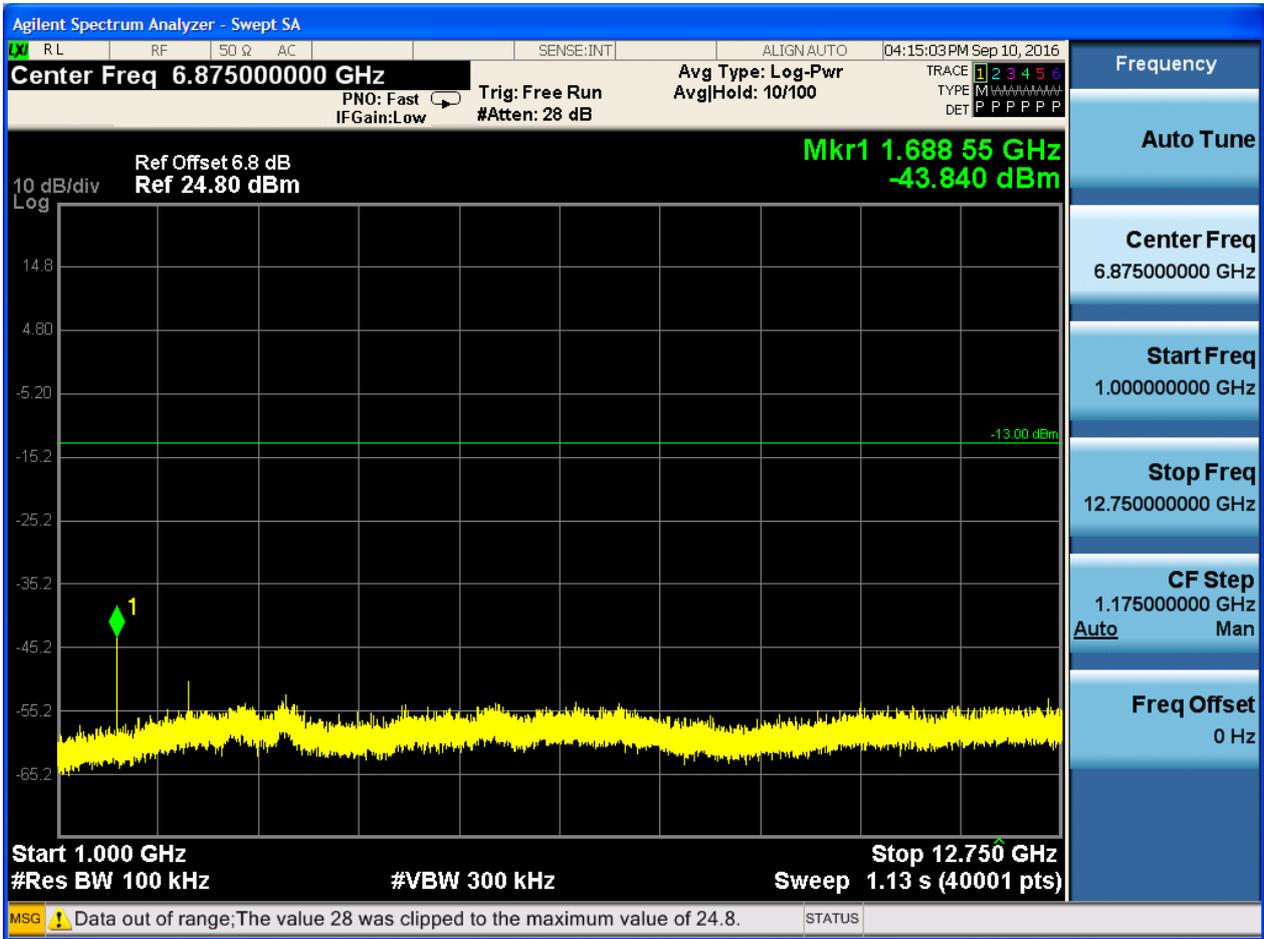
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







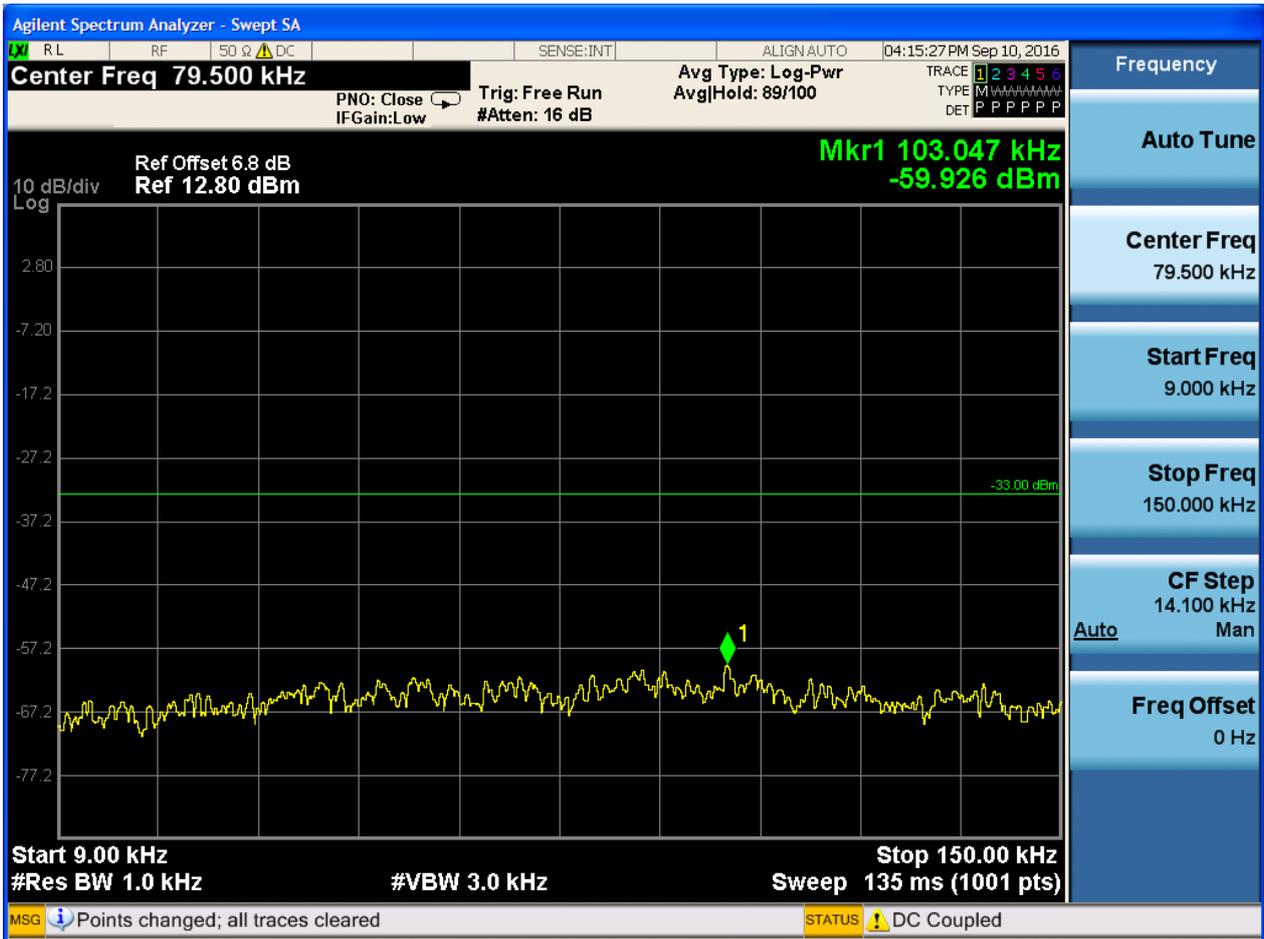




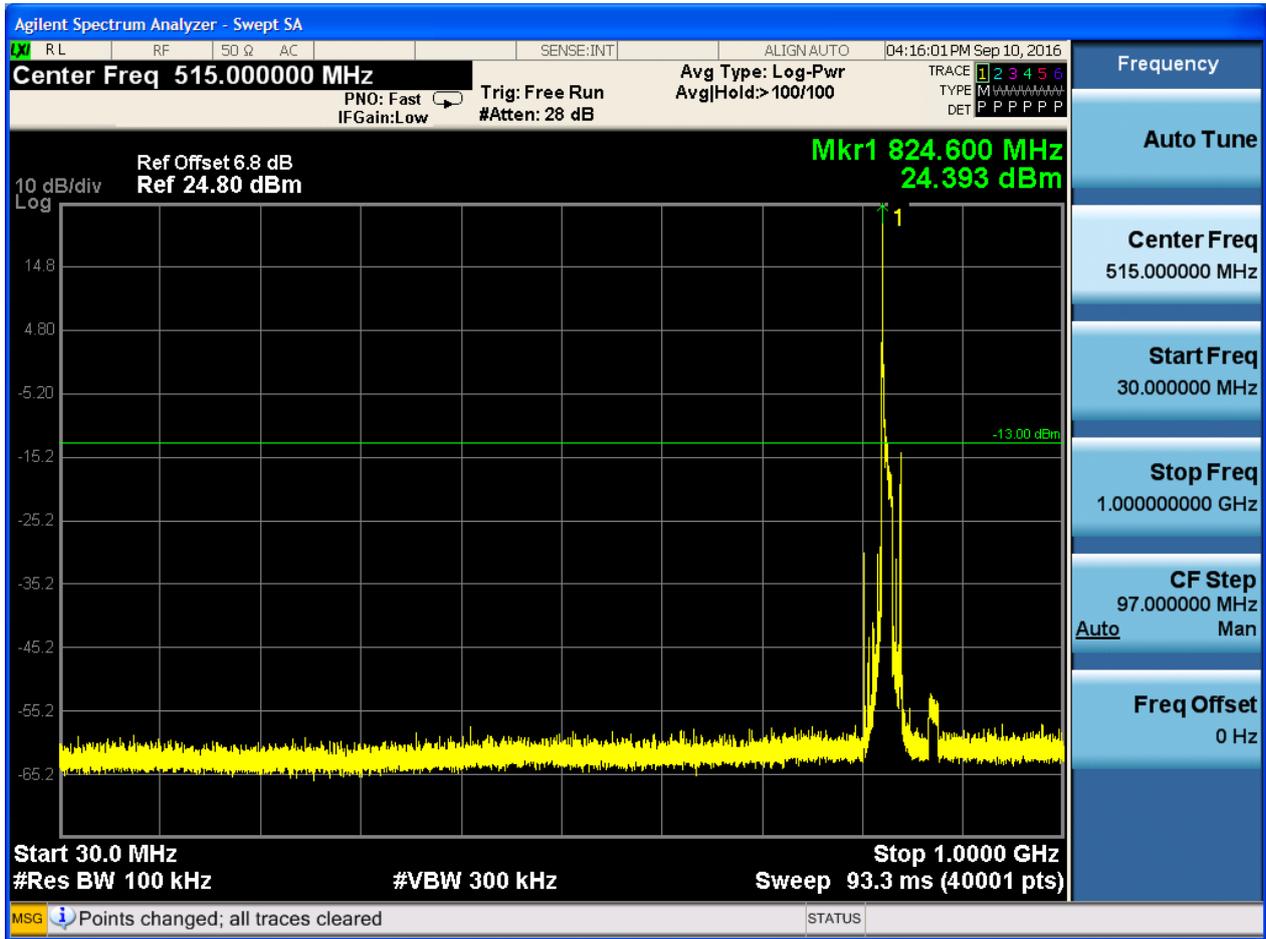
6.1.1.1.4 Test Bandwidth = 10

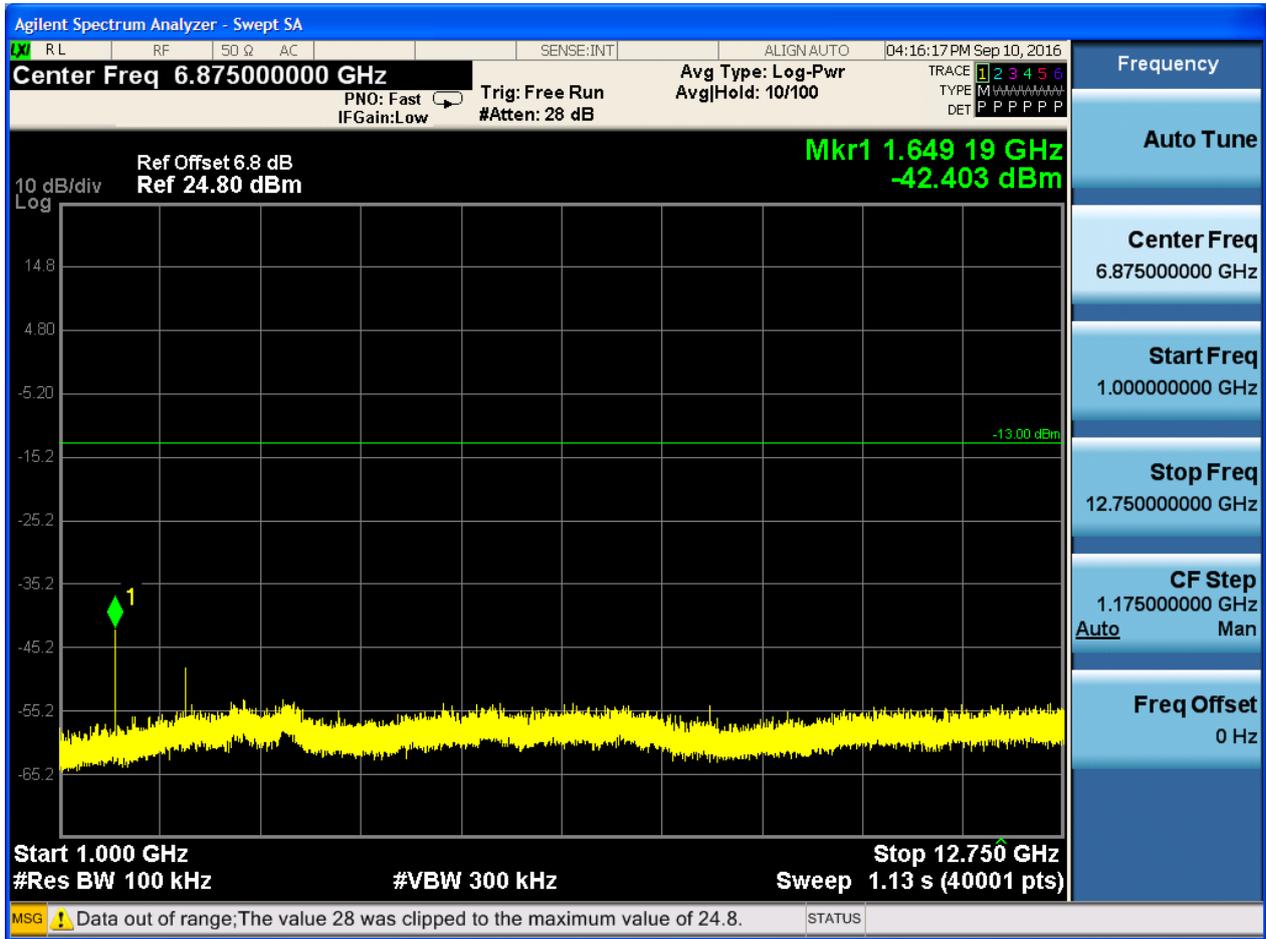
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





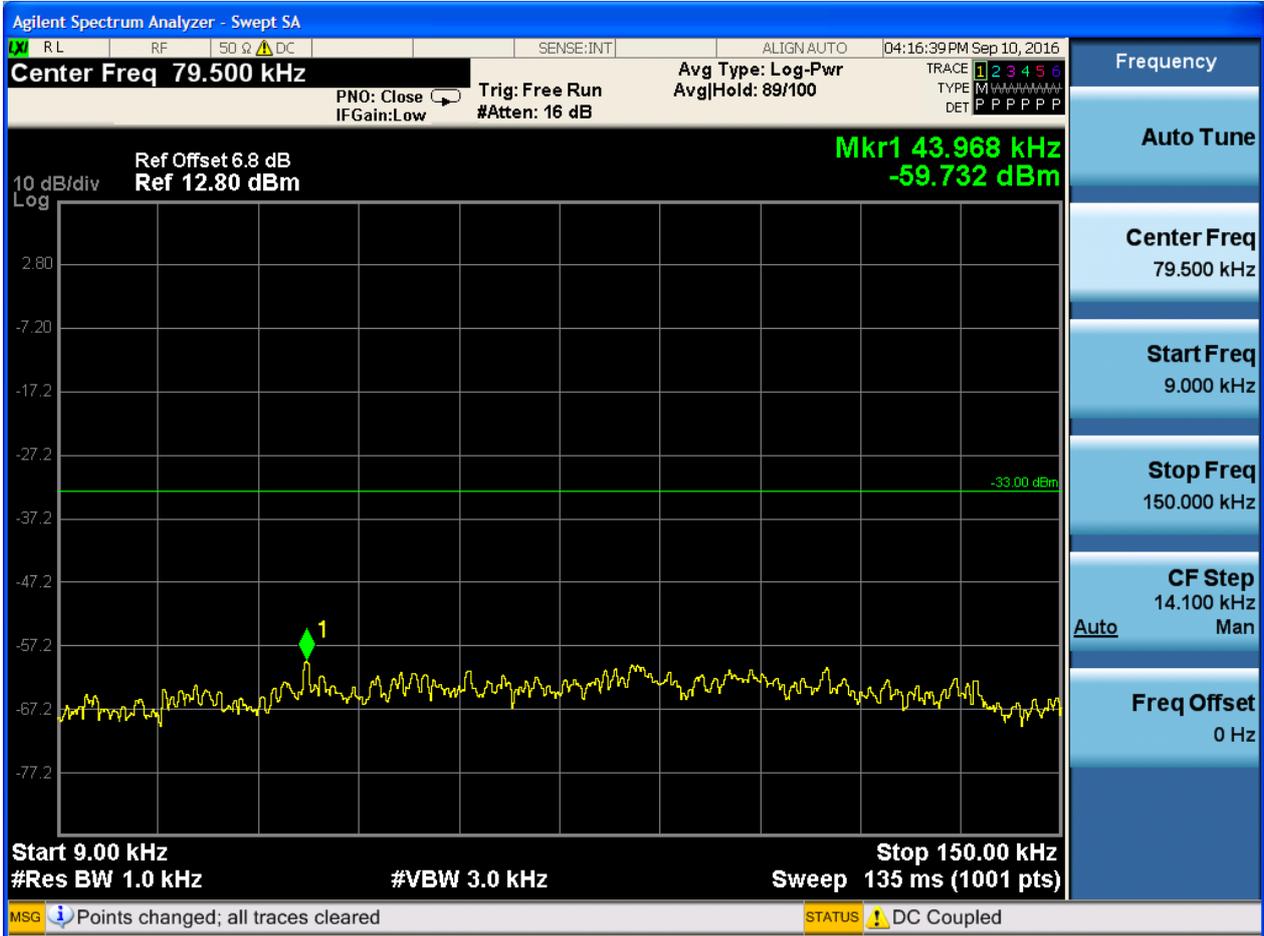




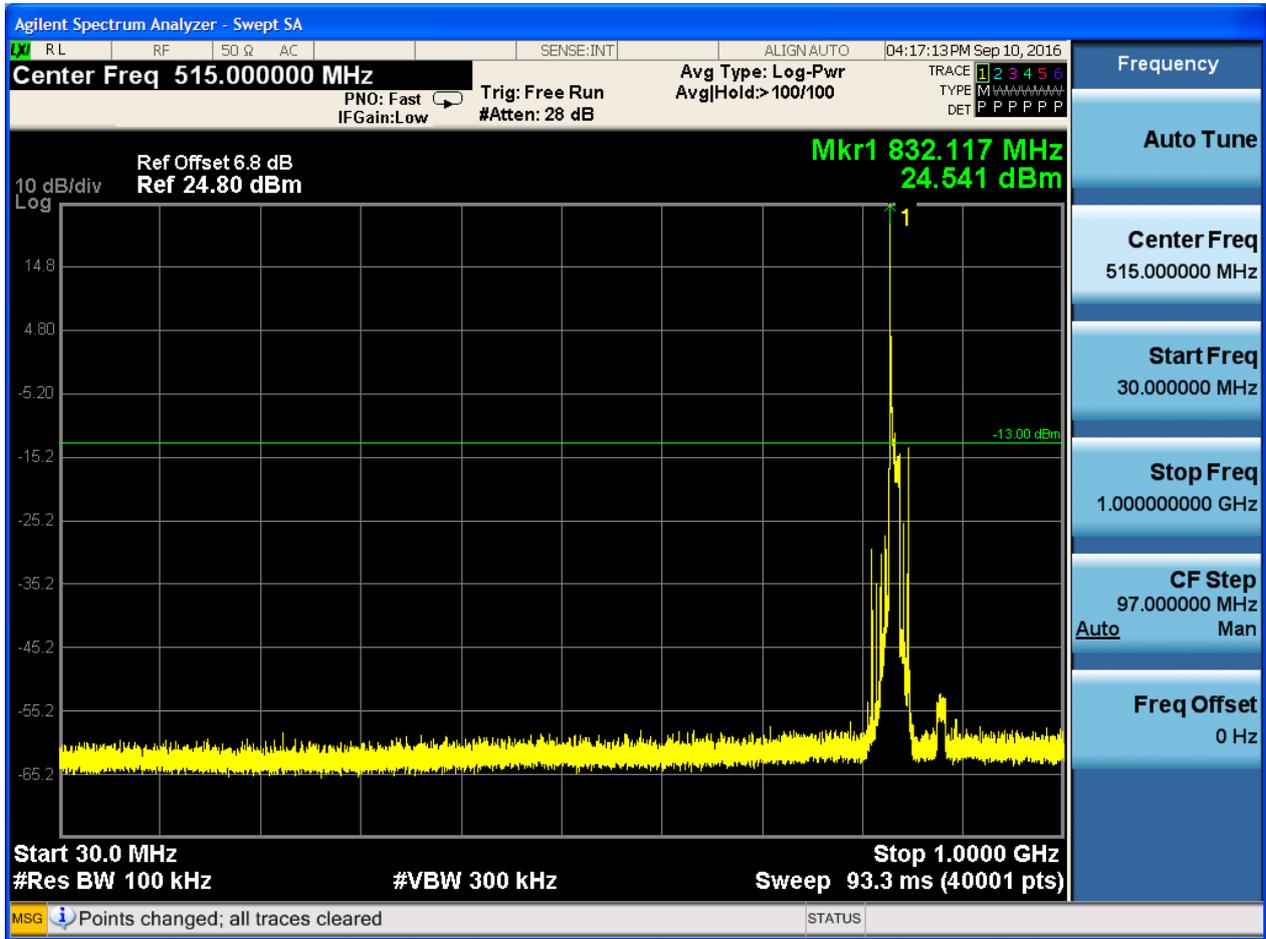


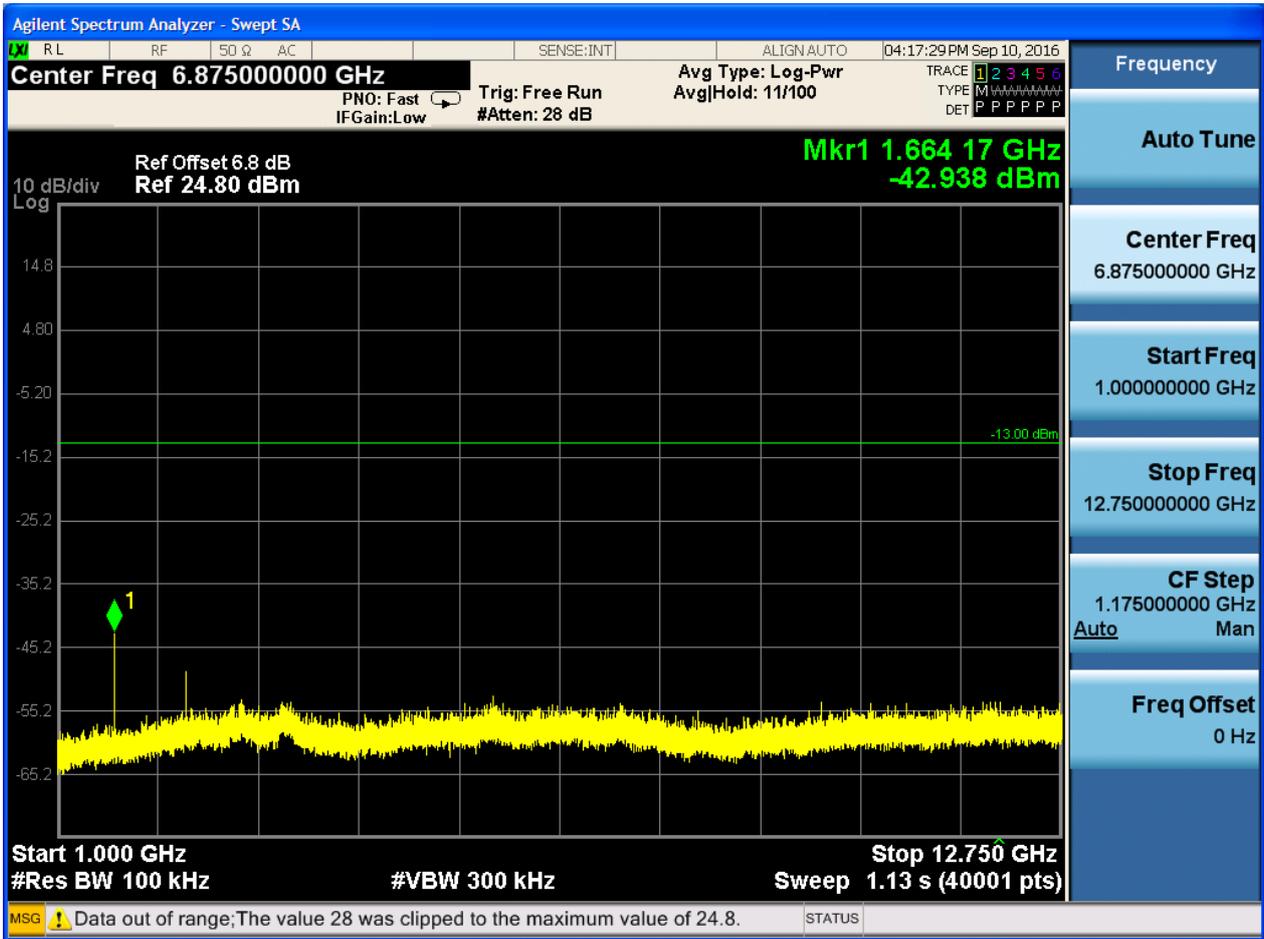
6.1.1.1.4.2 Test Channel = MCH

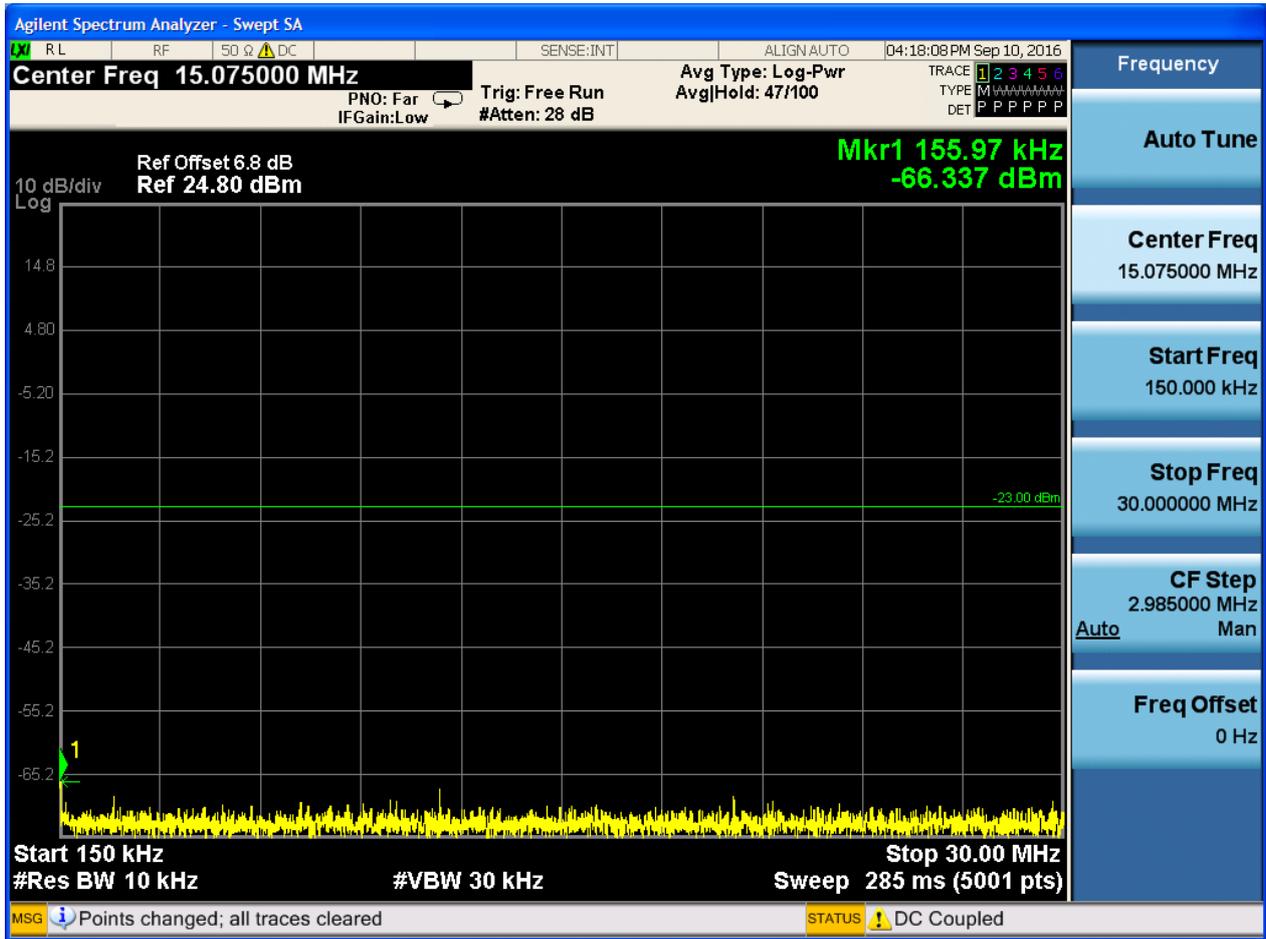
6.1.1.1.4.2.1 Test RB = RB1#0

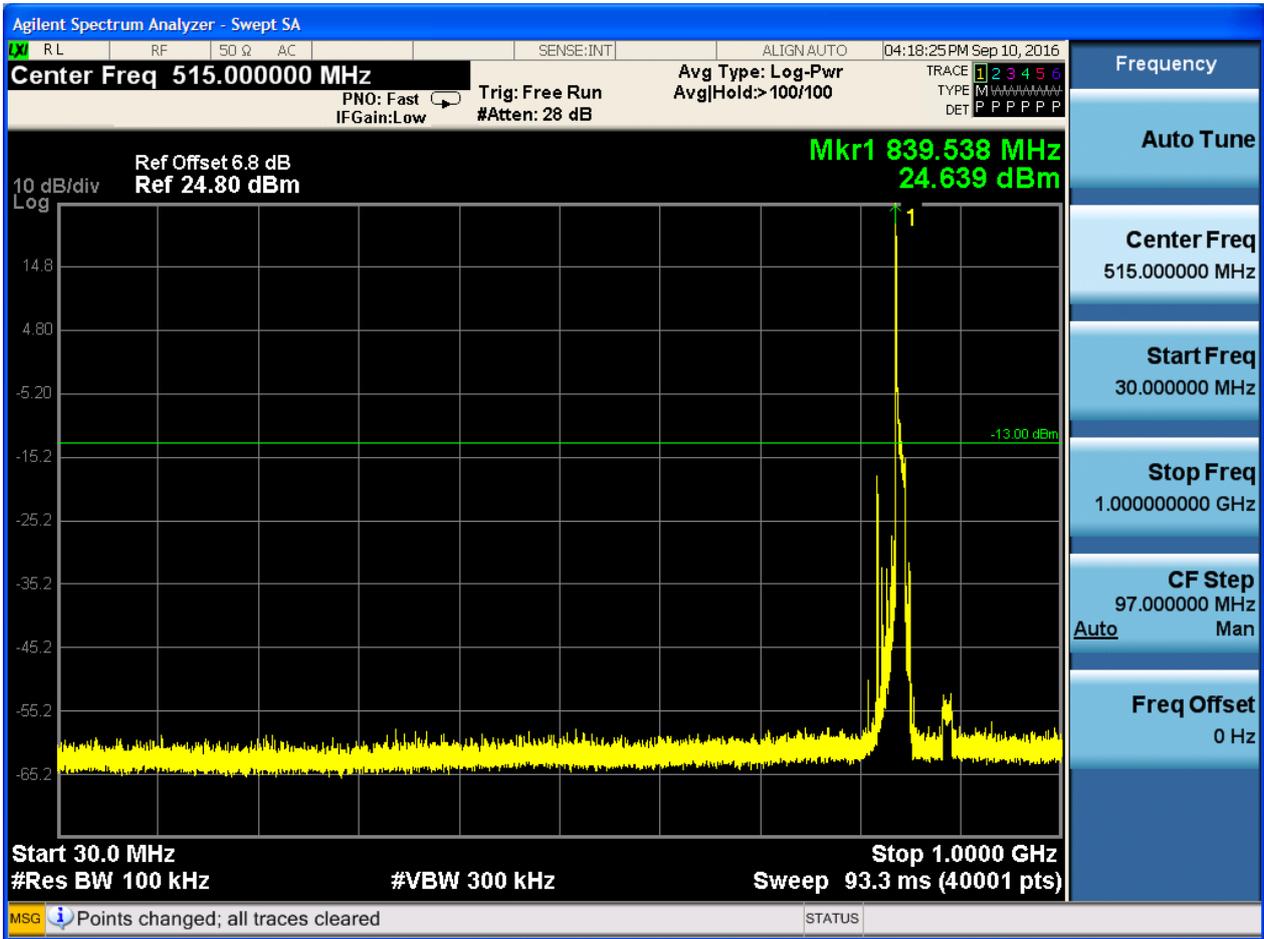


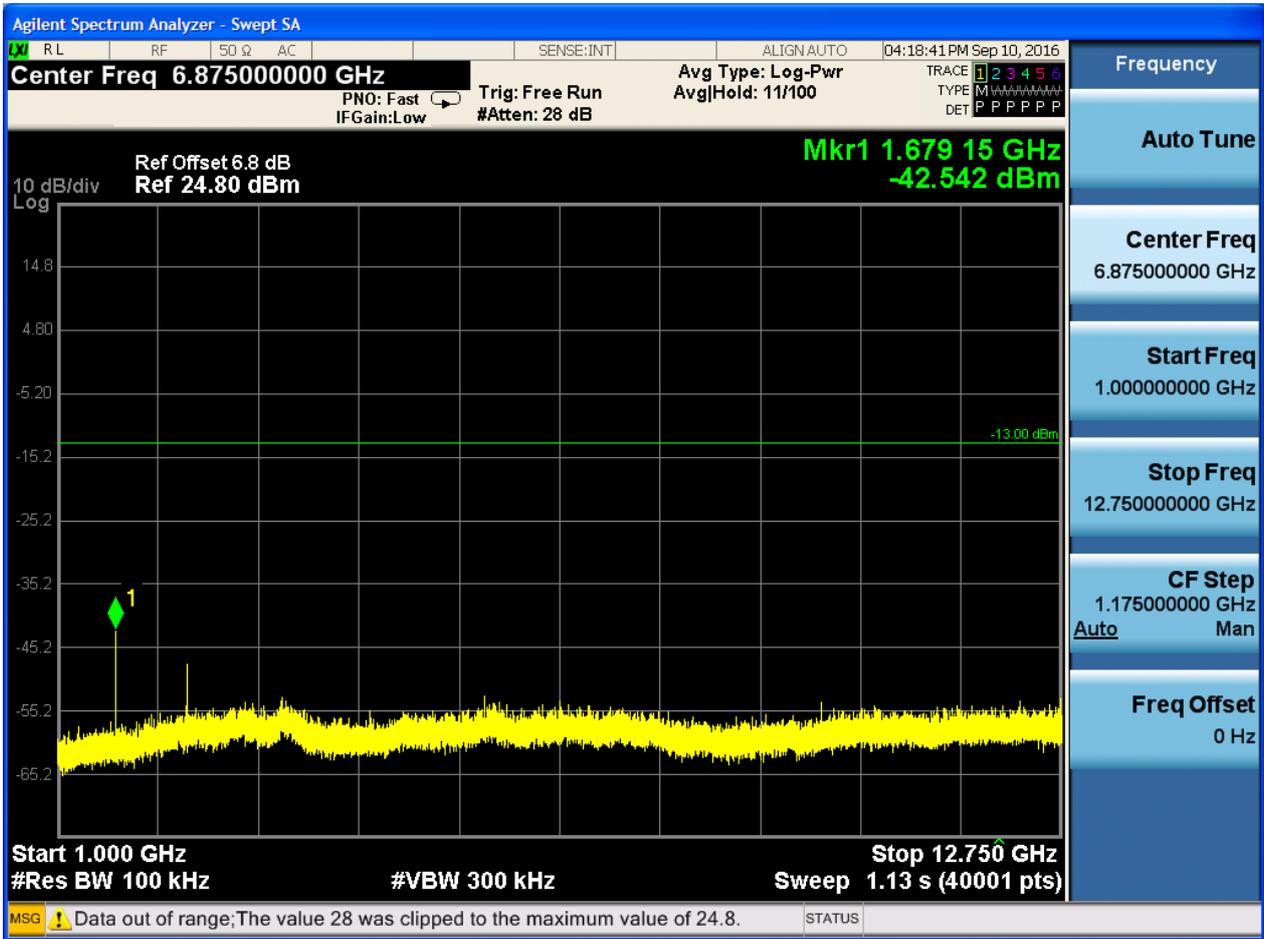












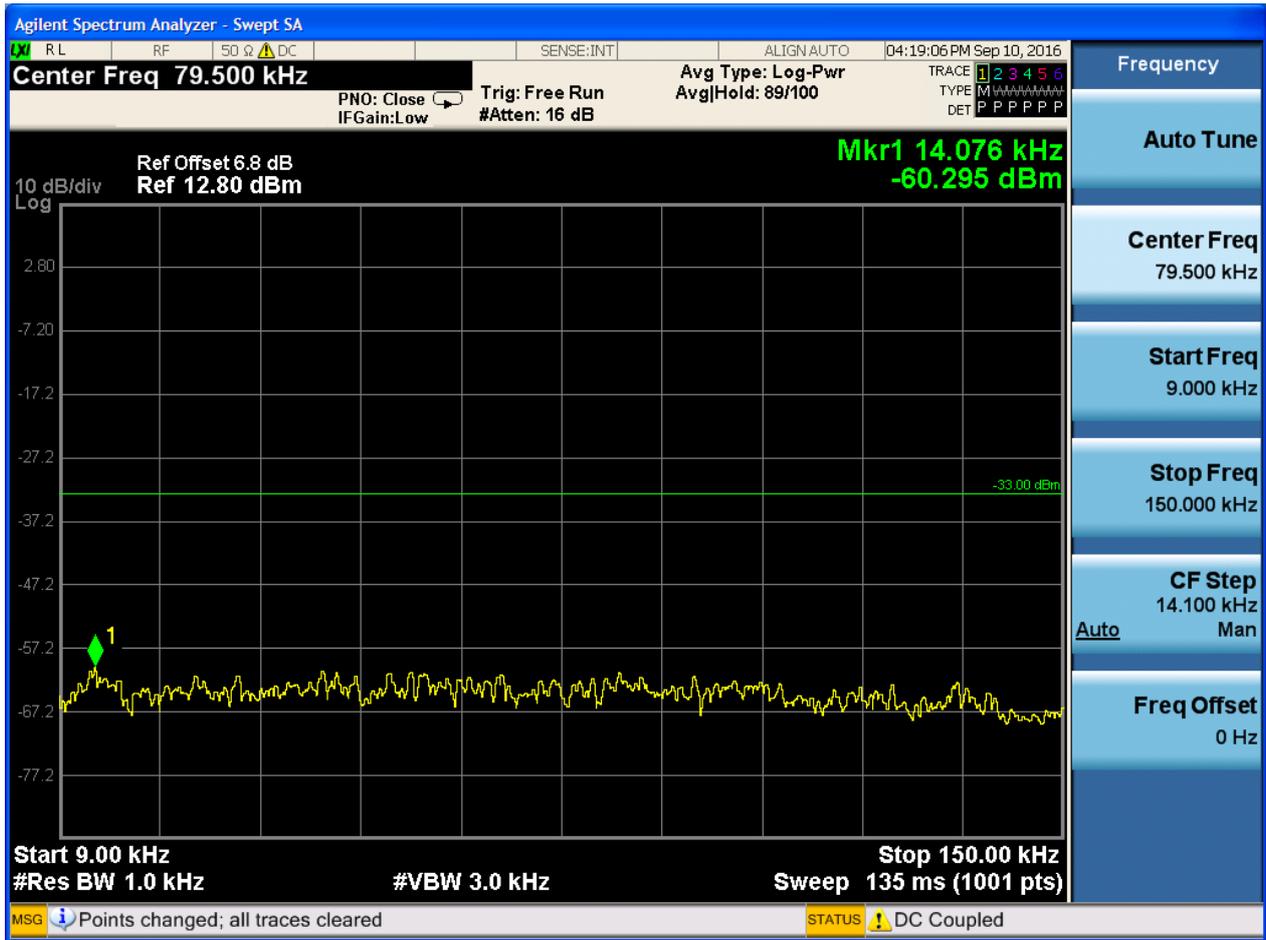


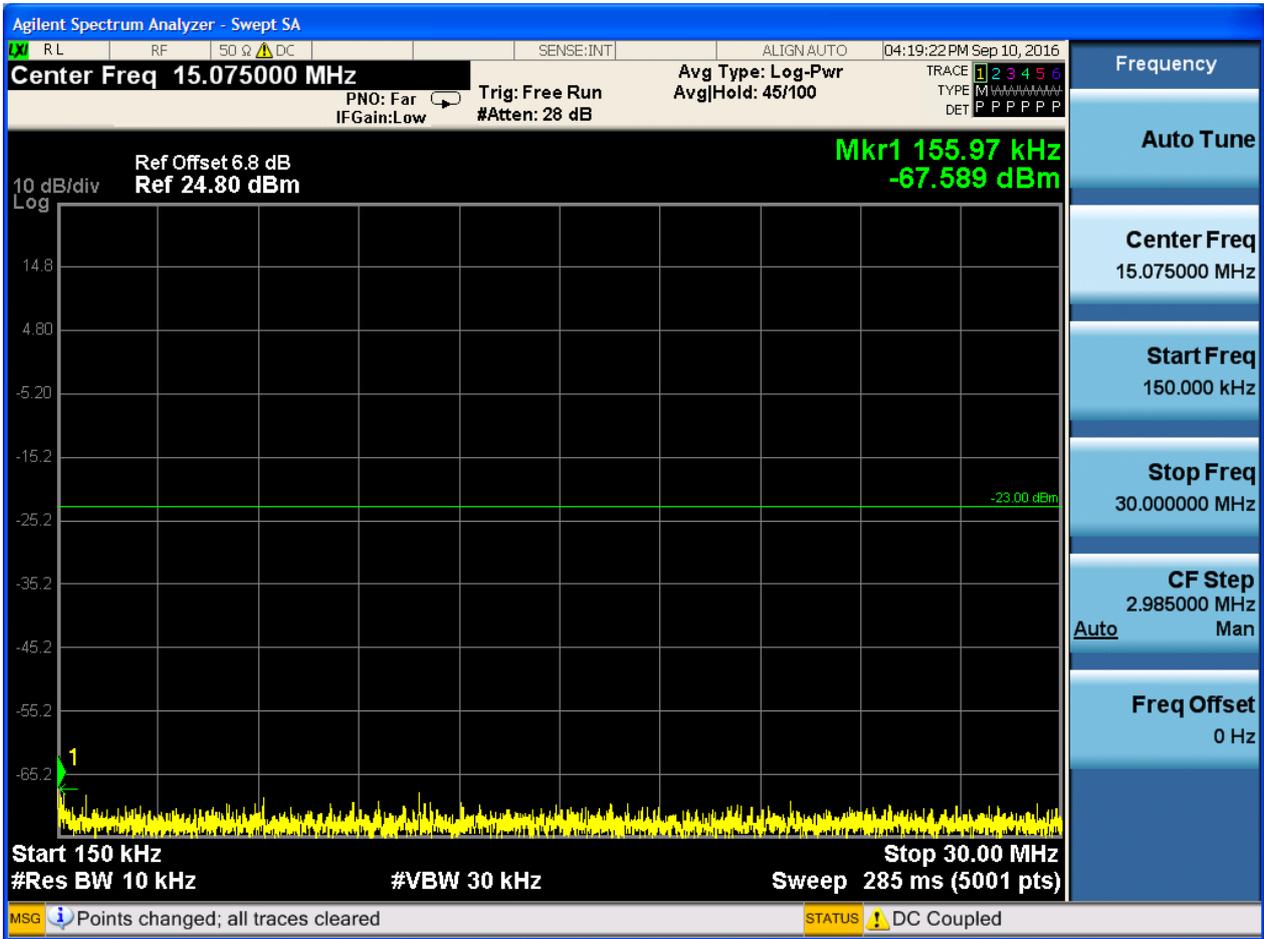
6.1.1.2 Test Mode = LTE/TM2

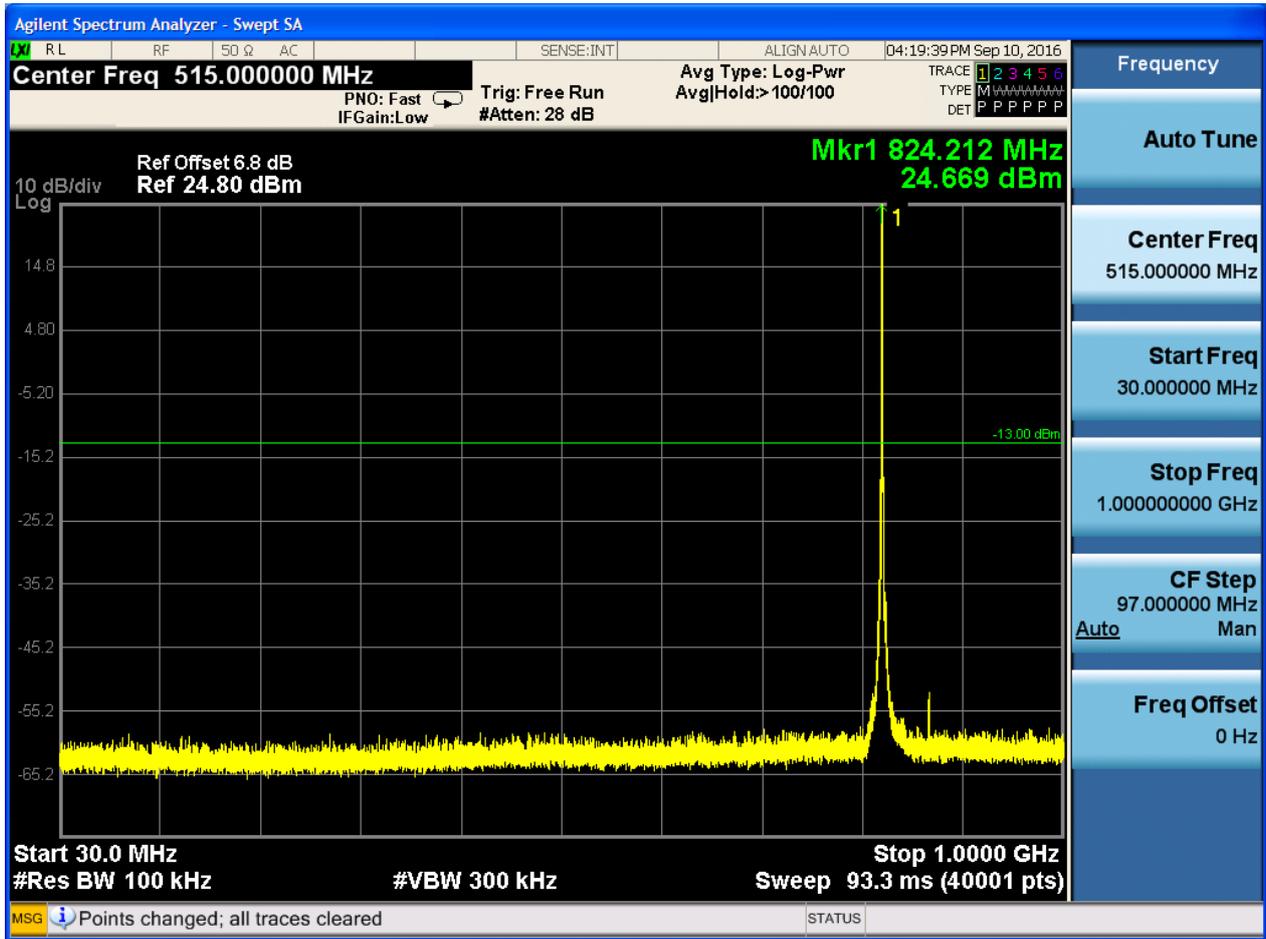
6.1.1.2.1 Test Bandwidth = 1.4

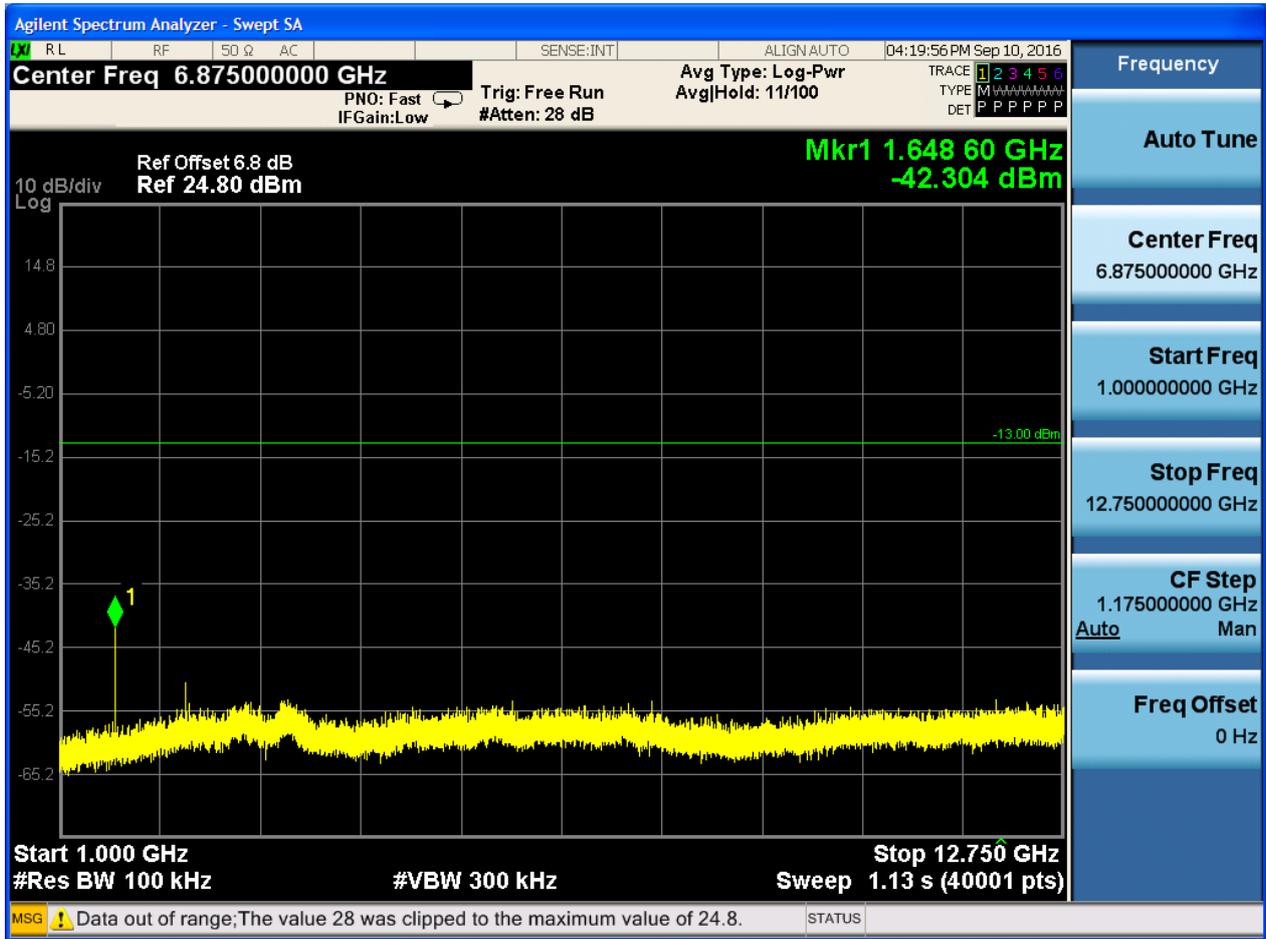
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





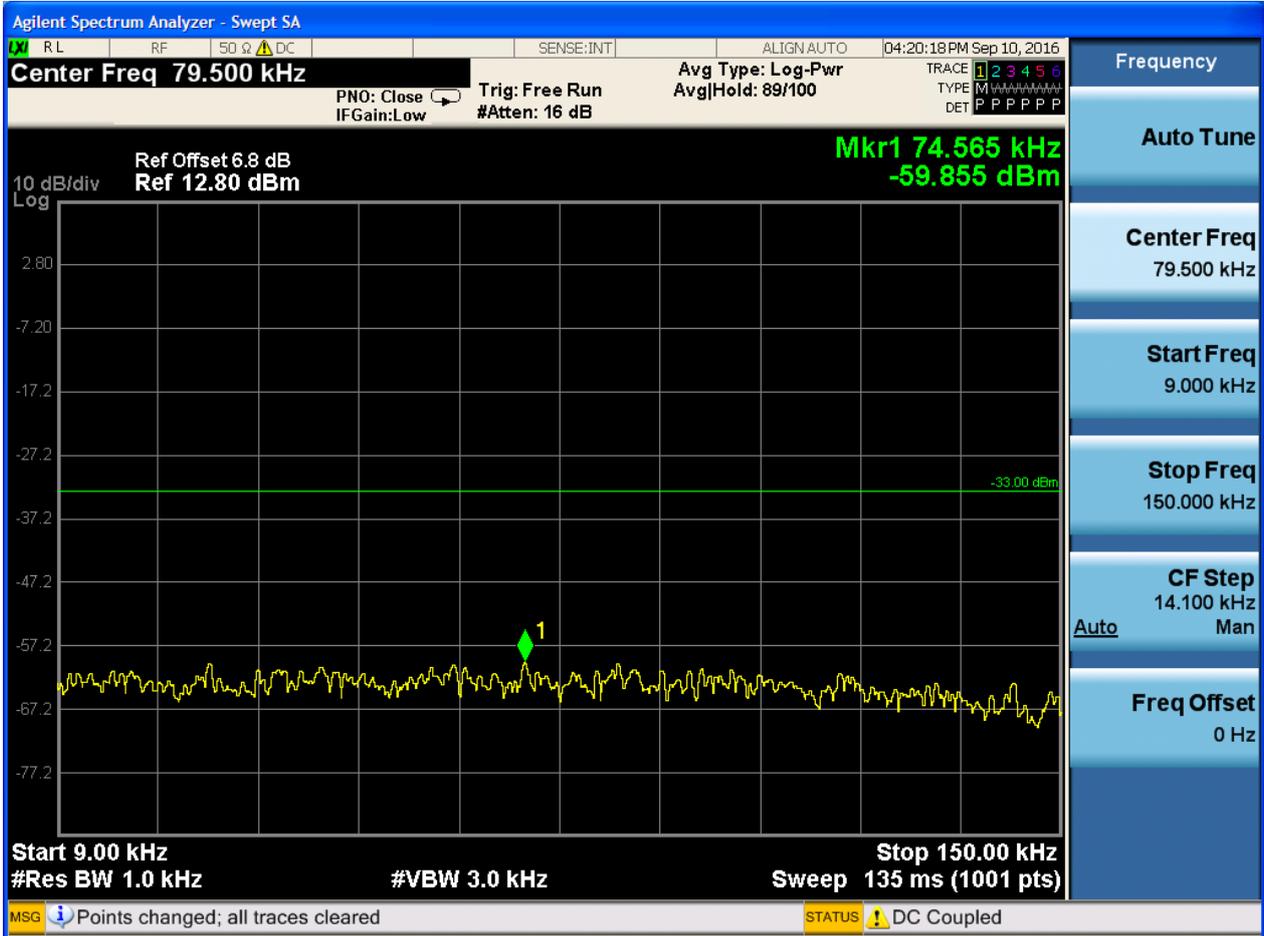




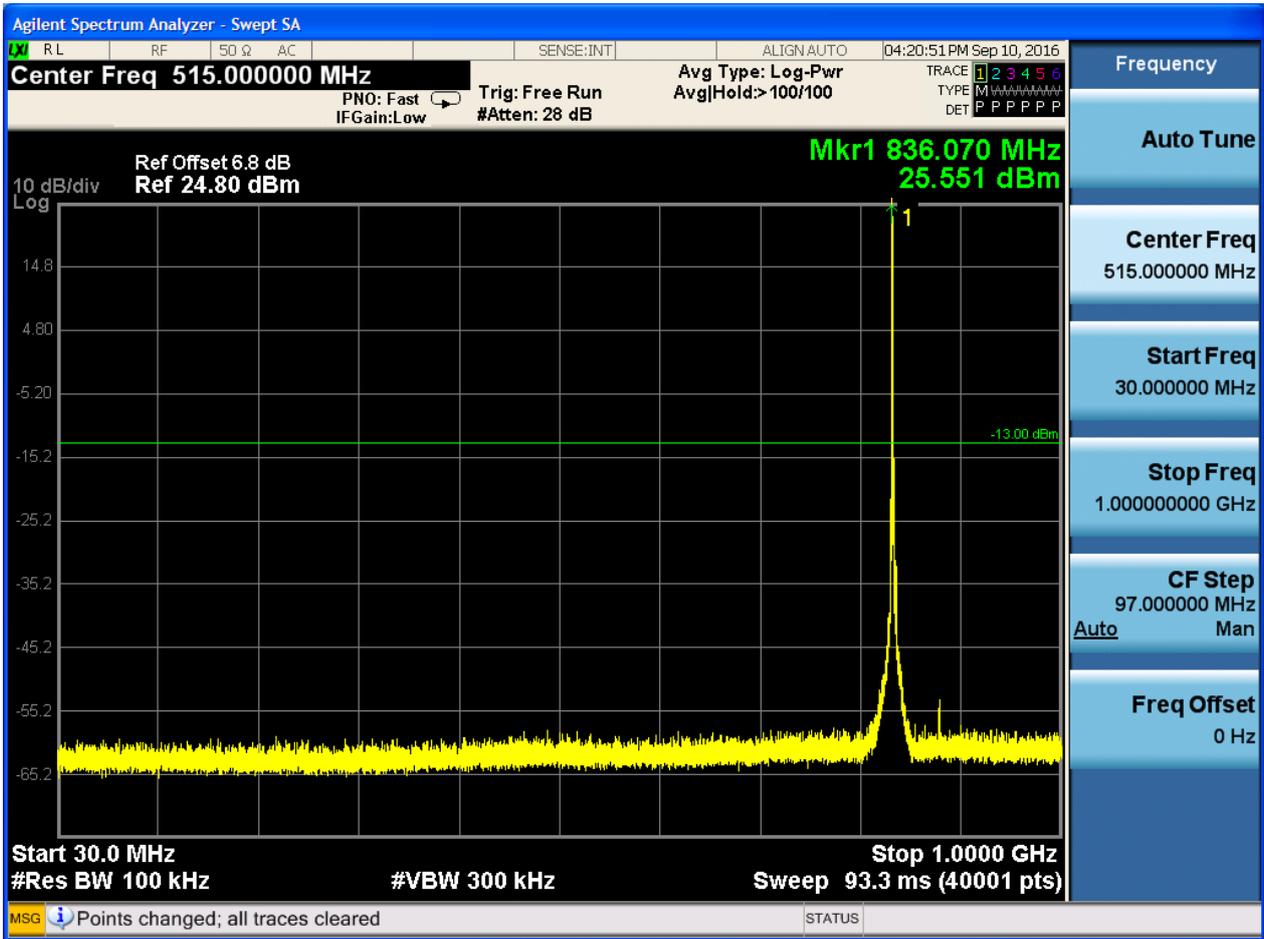


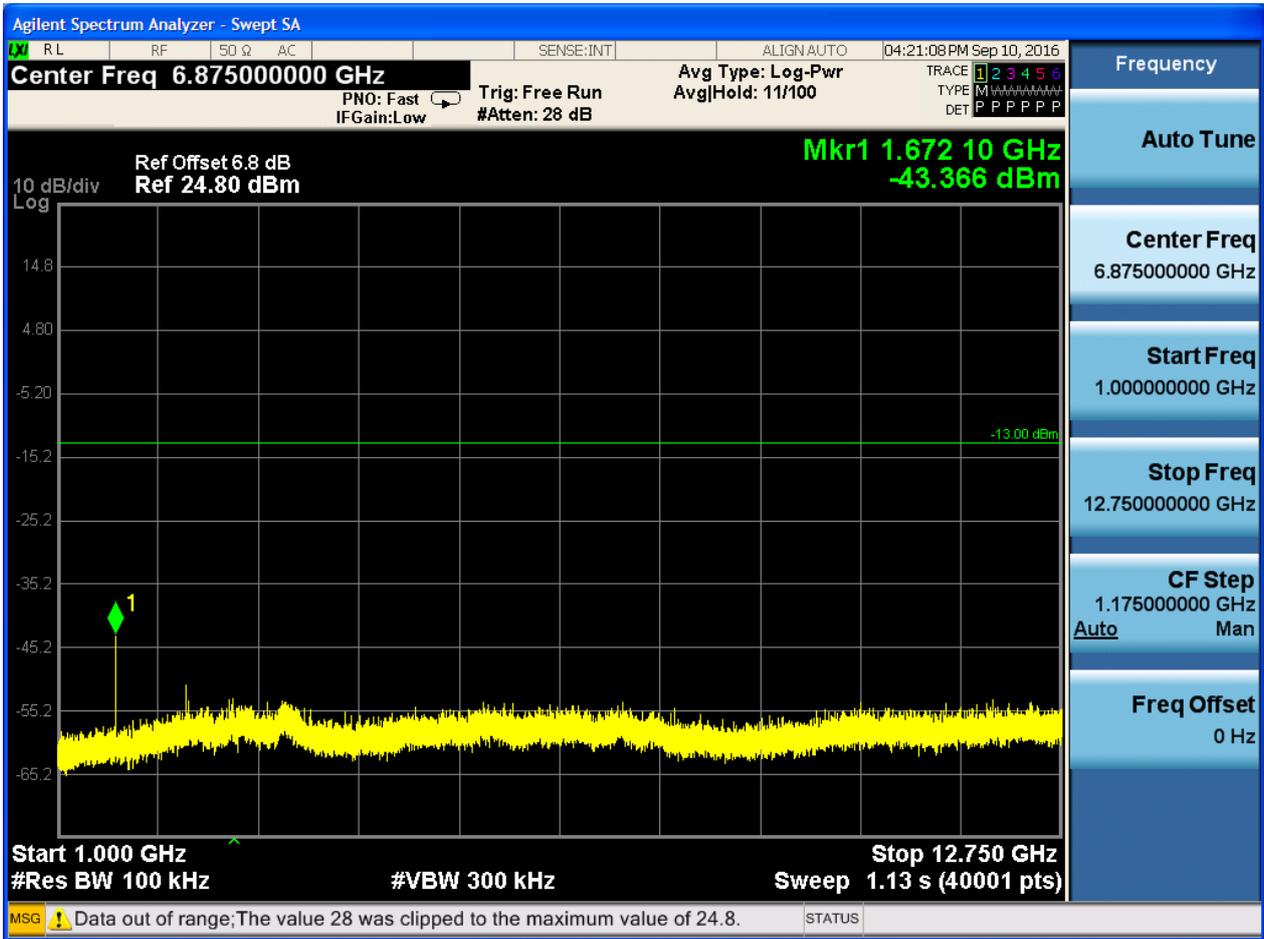
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





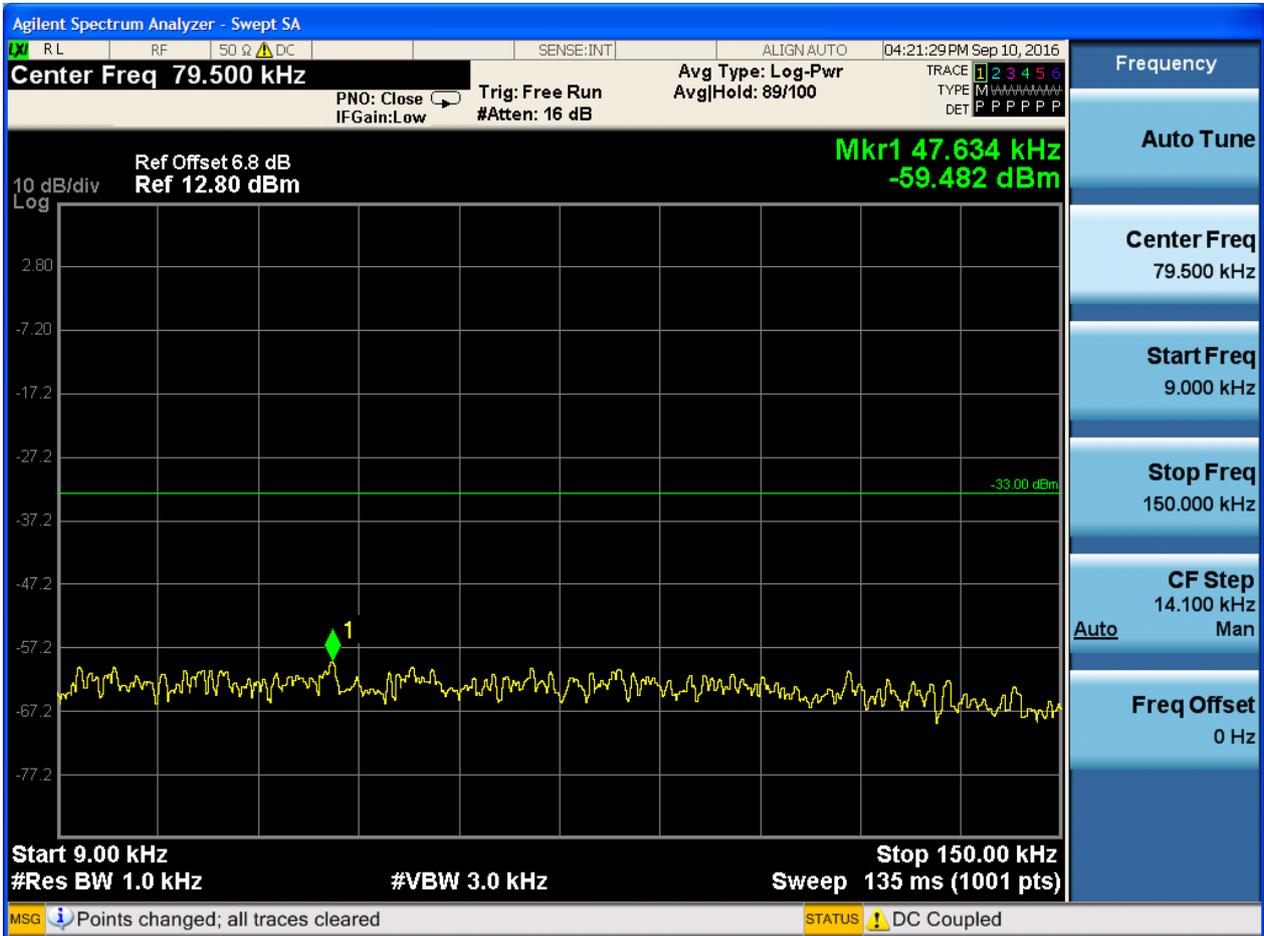




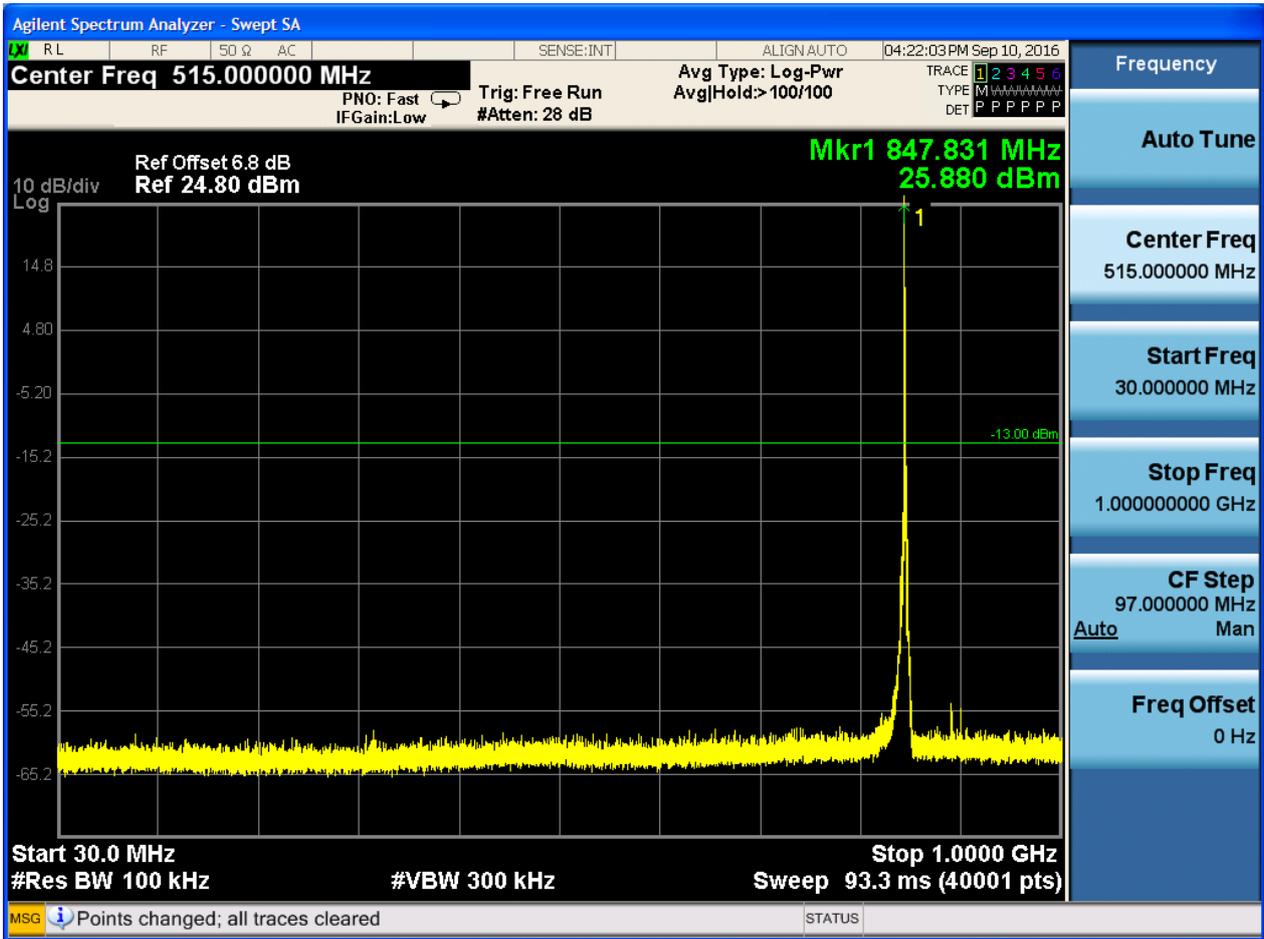


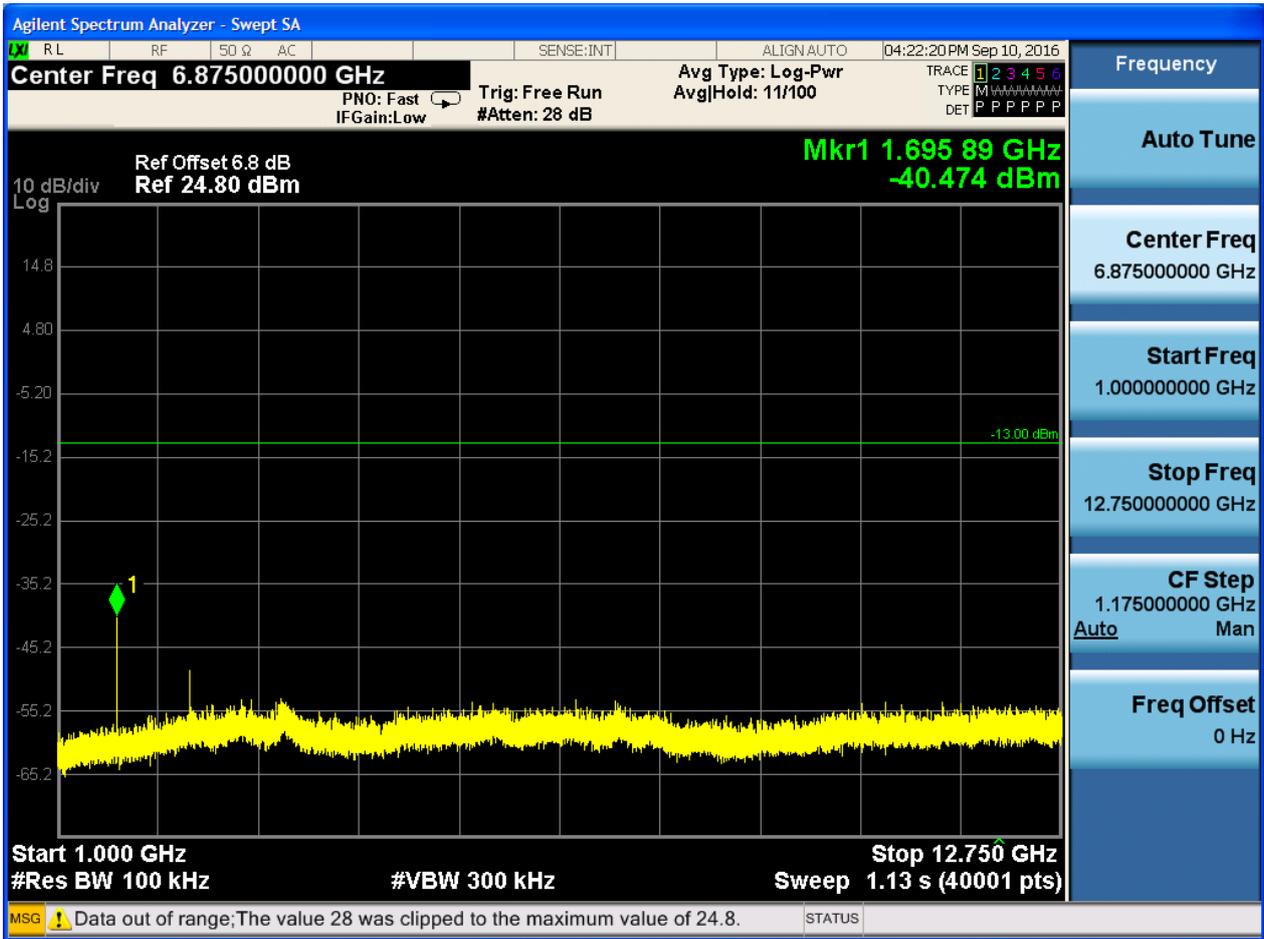
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







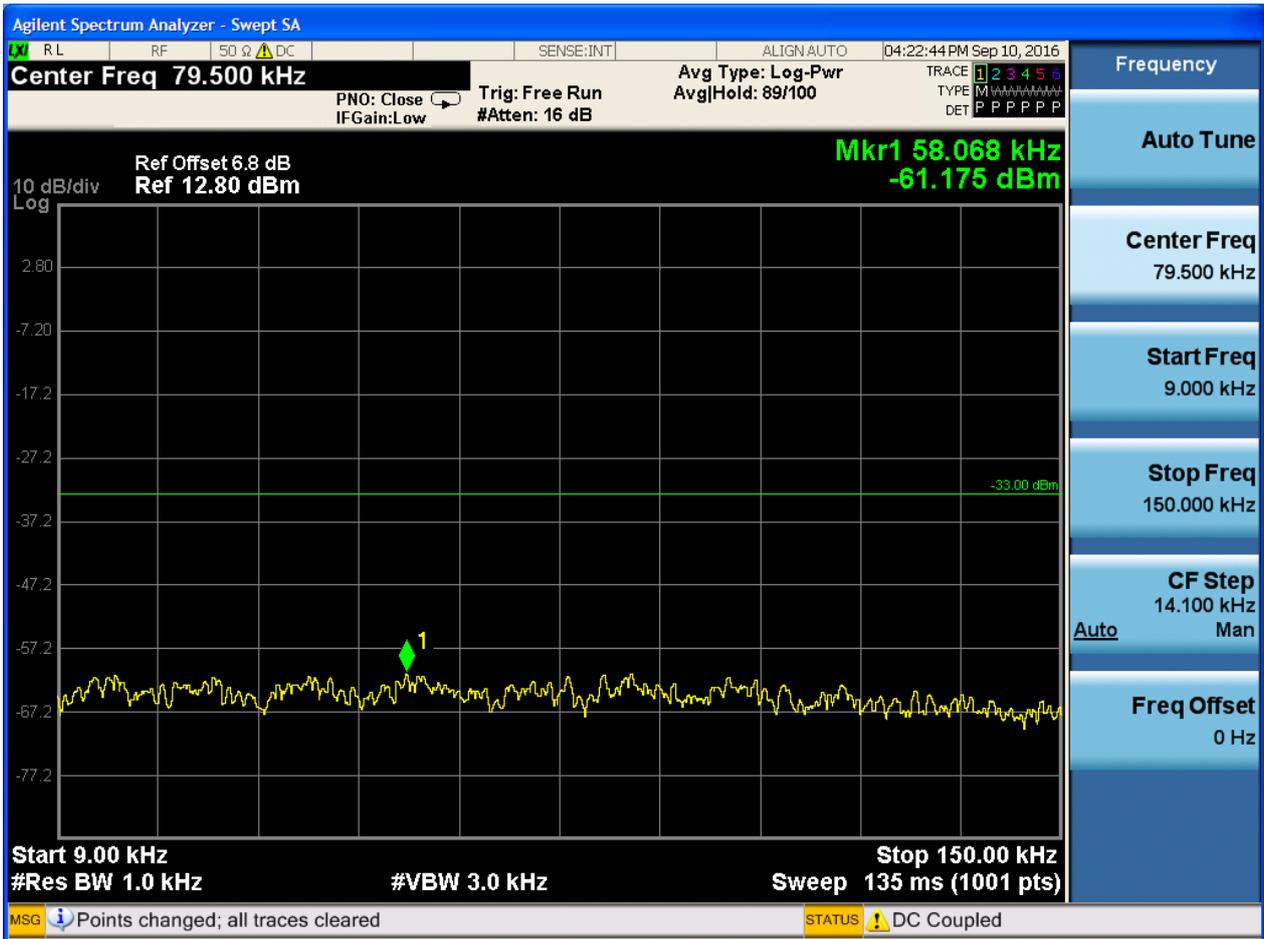


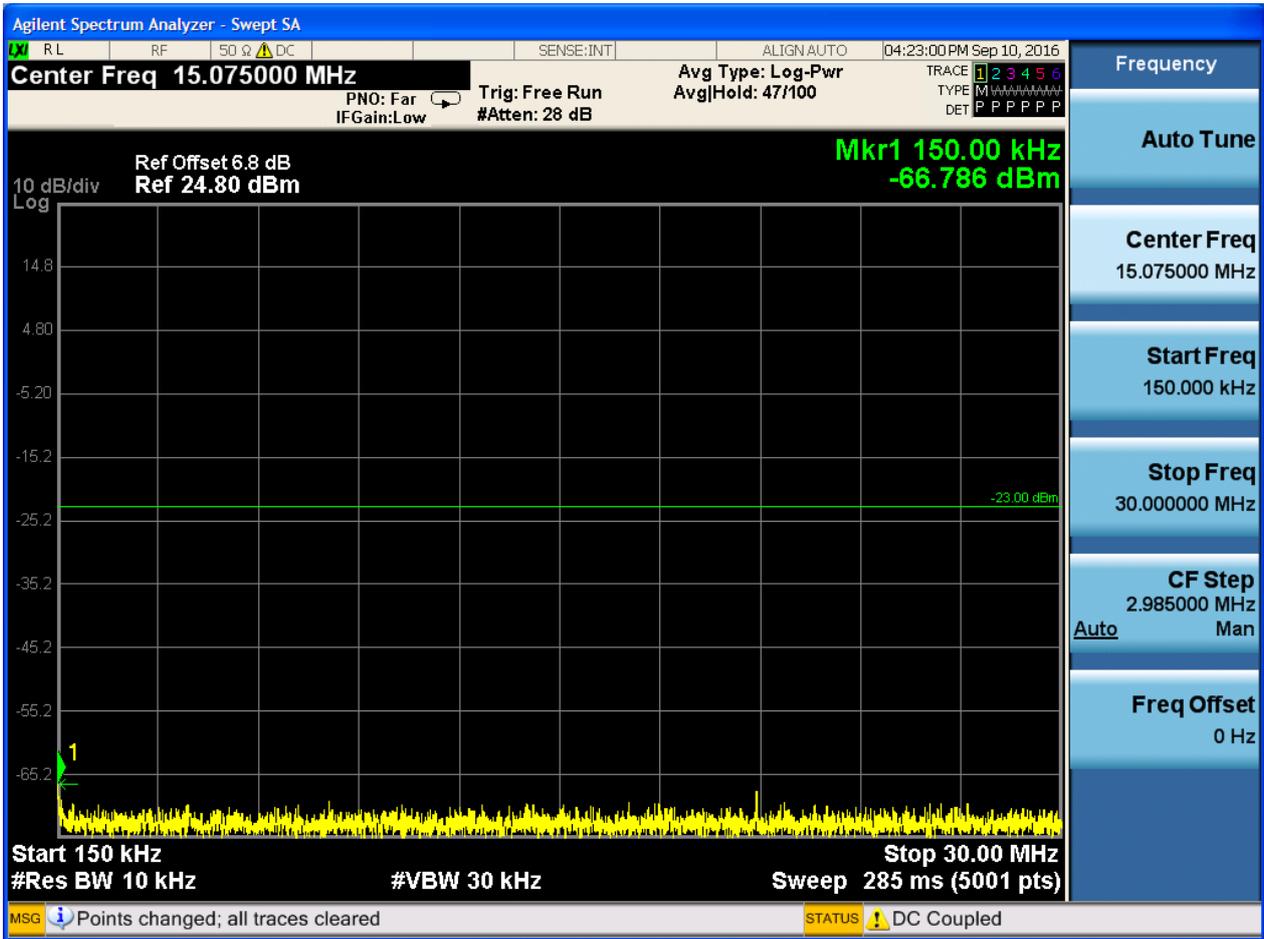


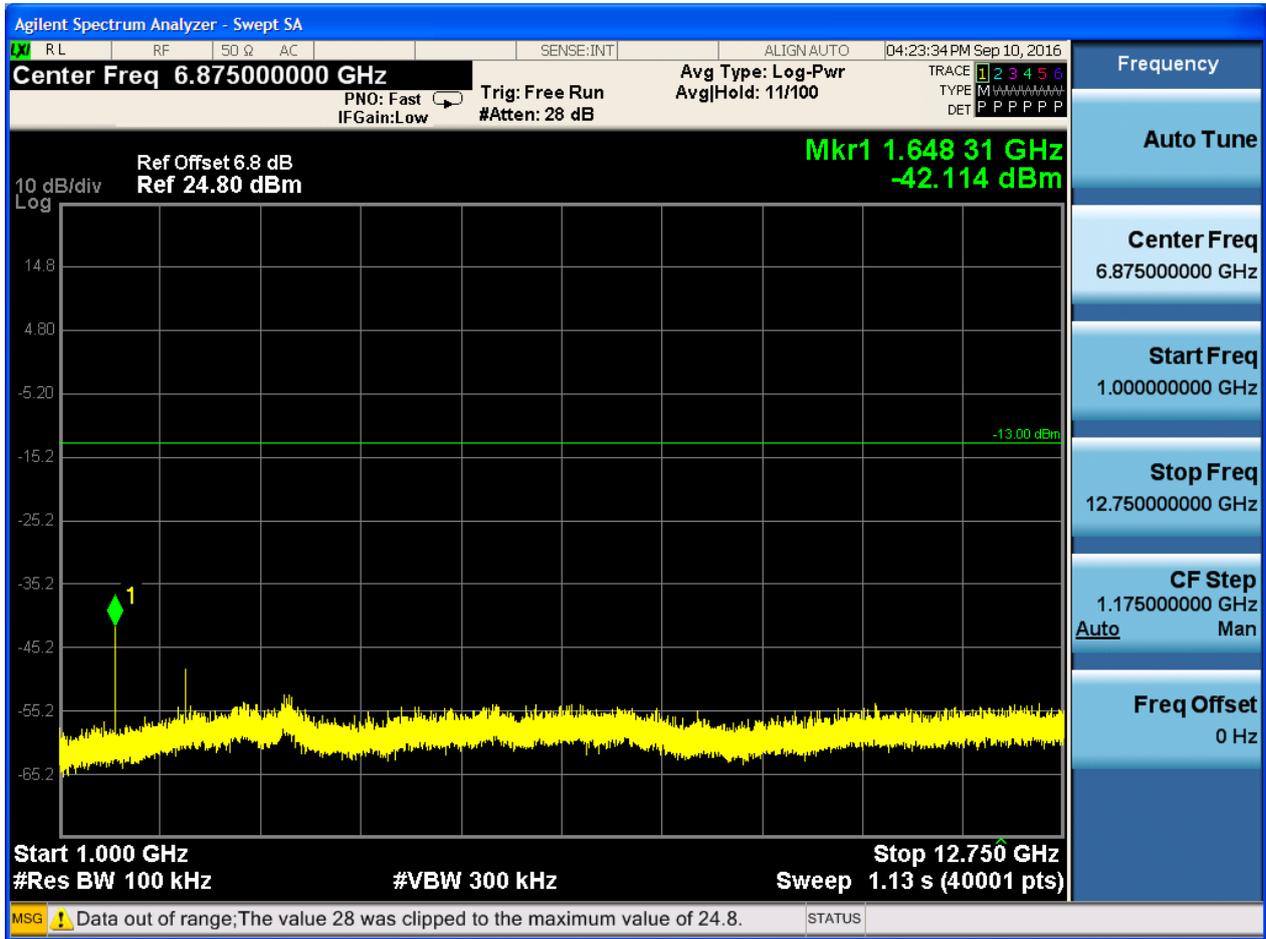
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



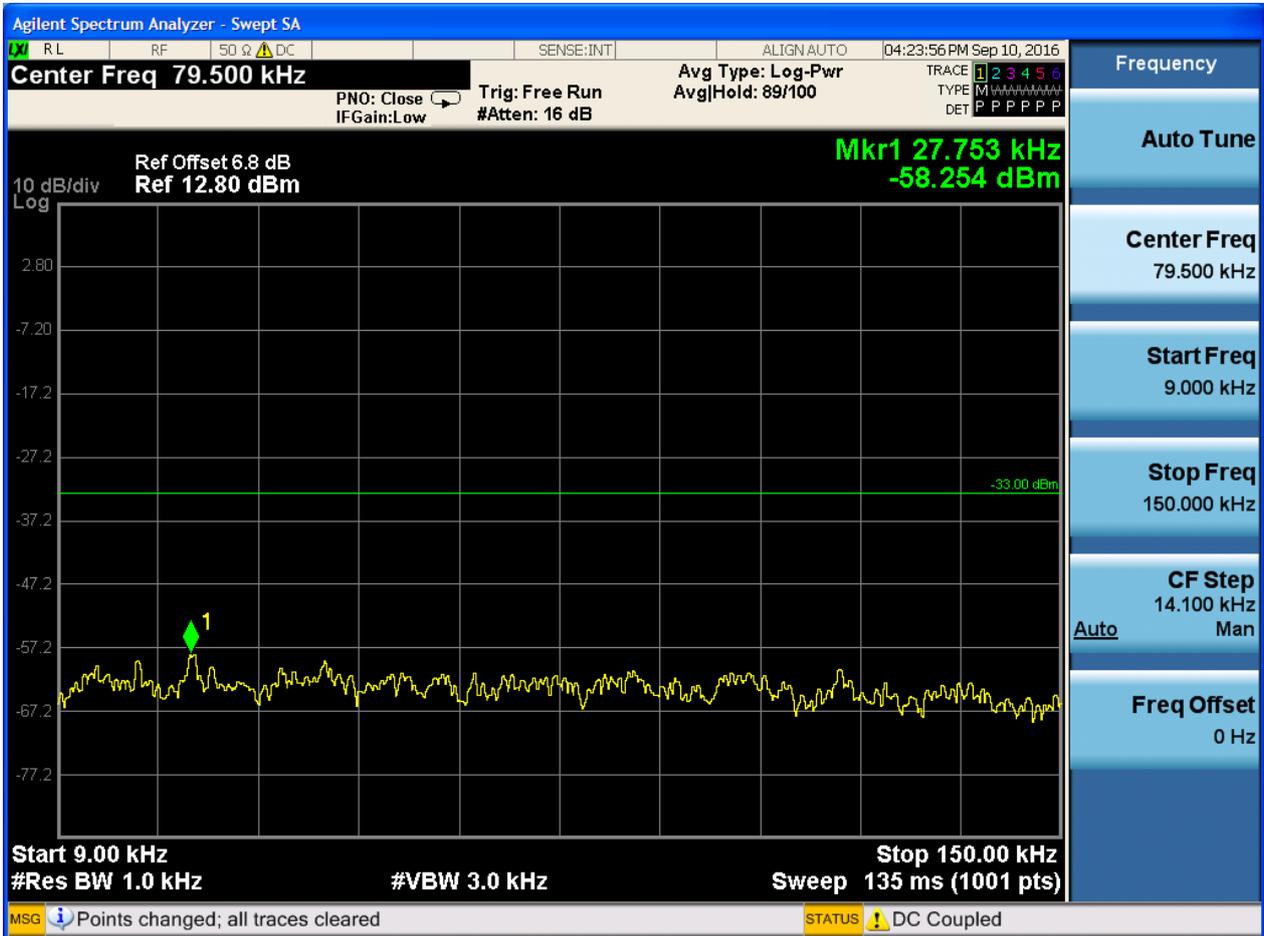




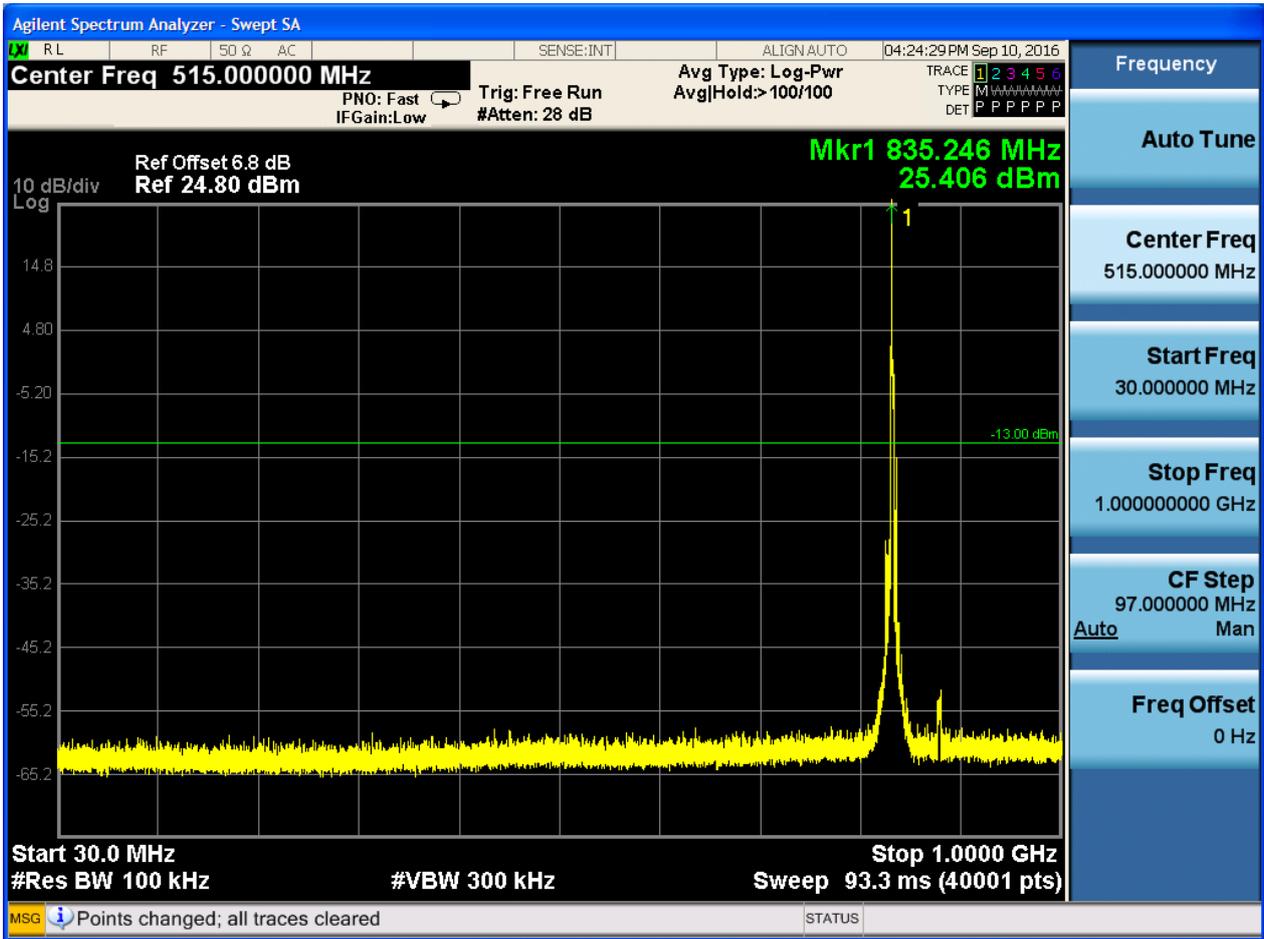


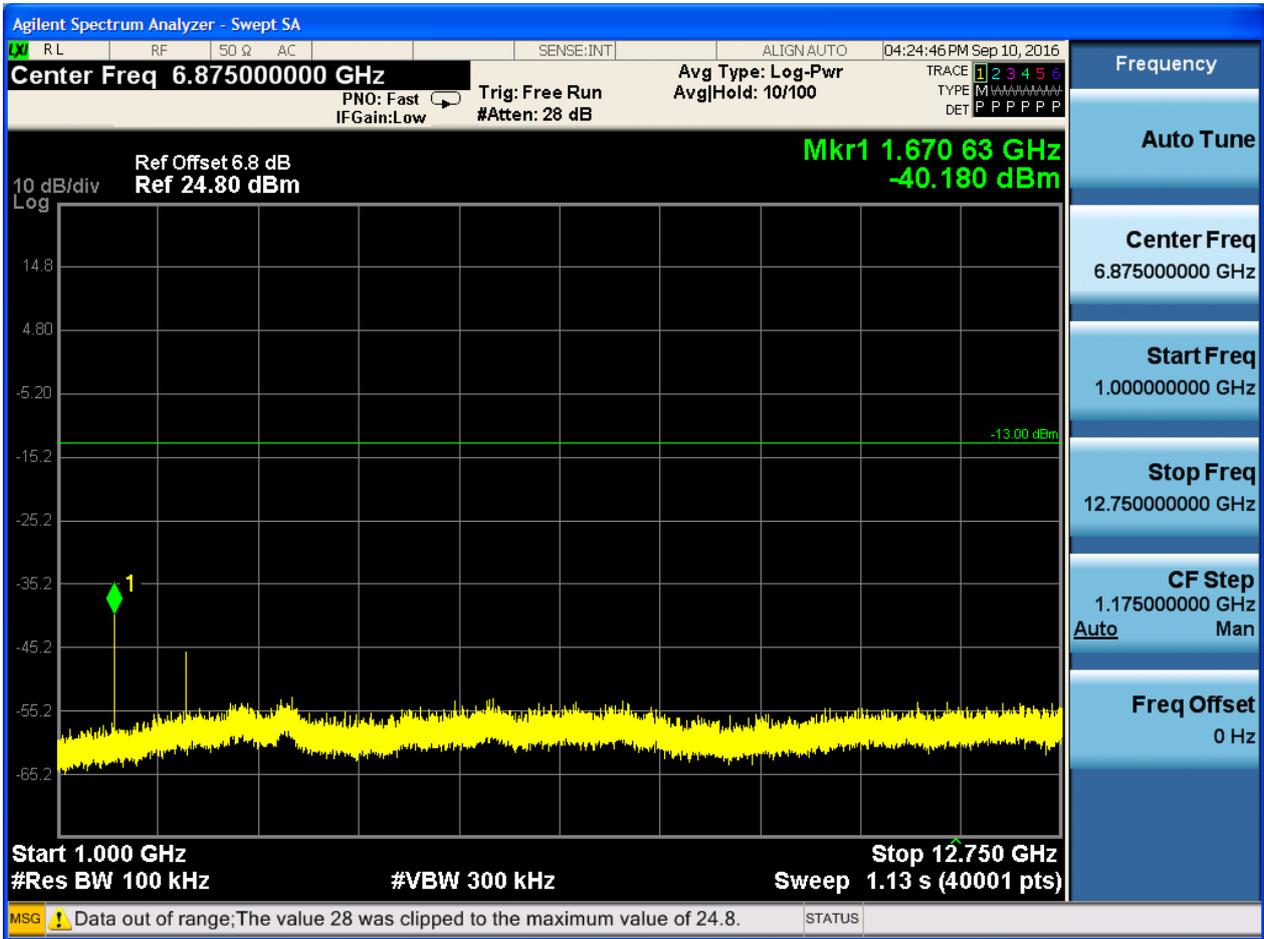
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0





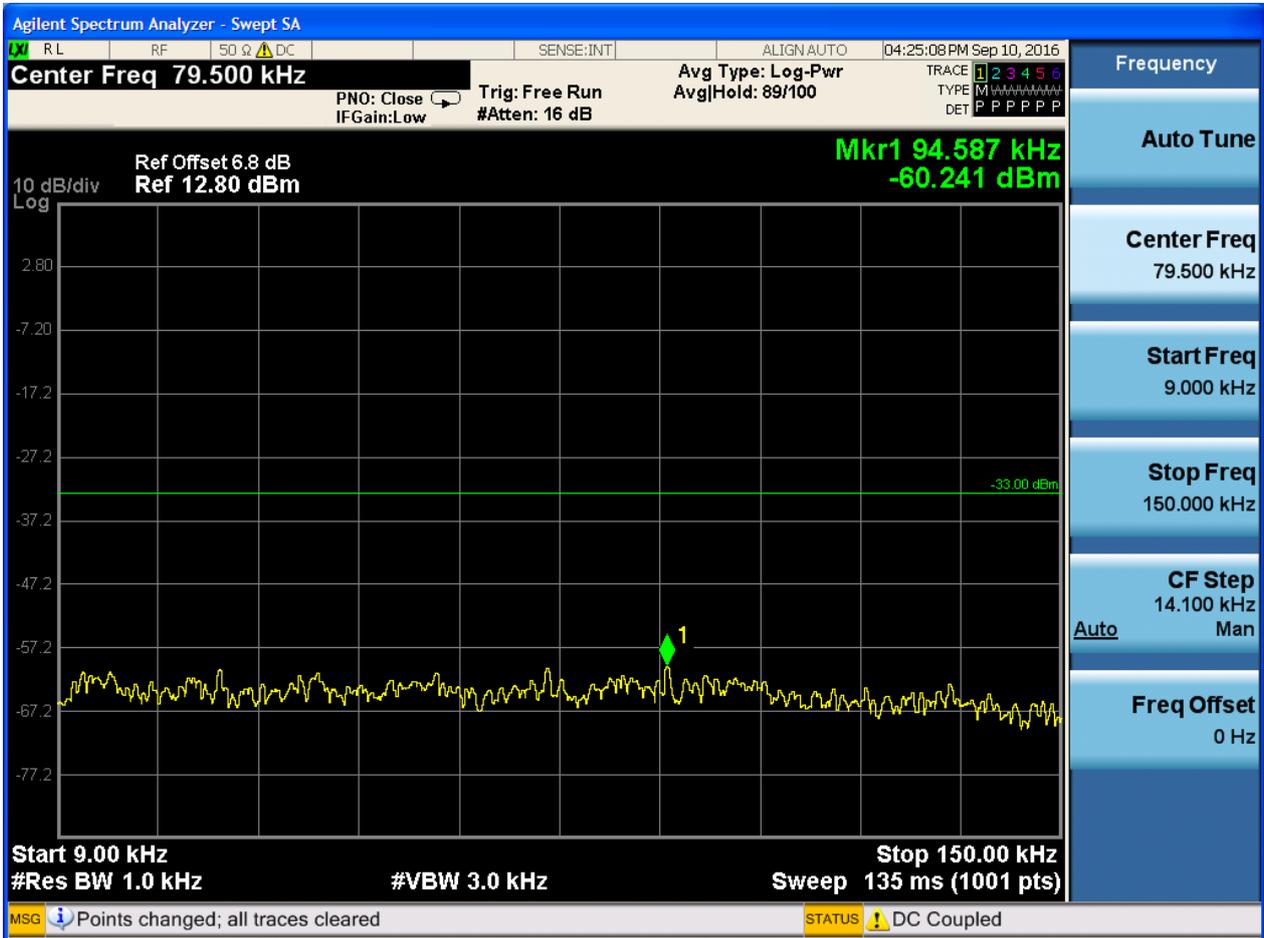


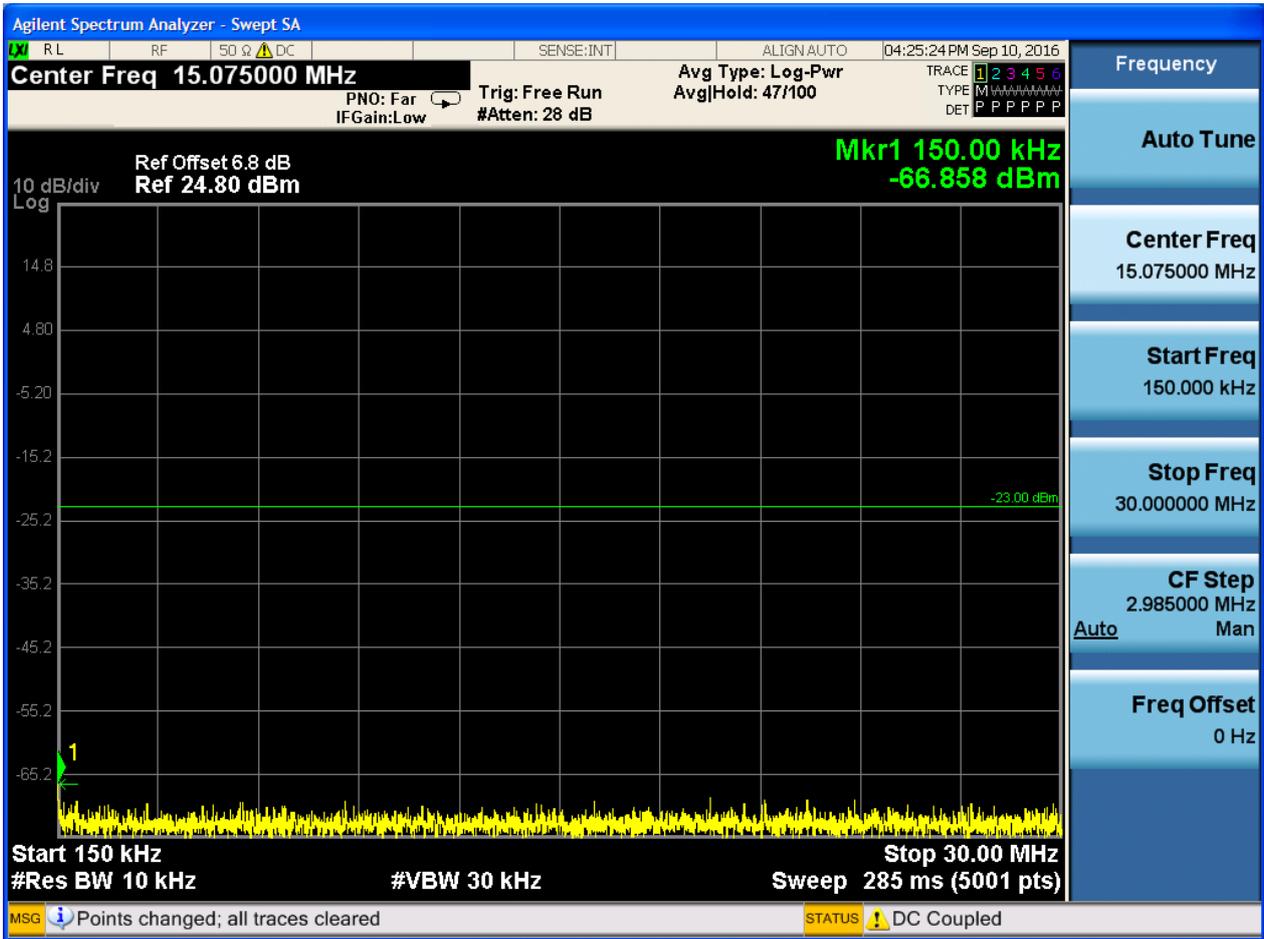


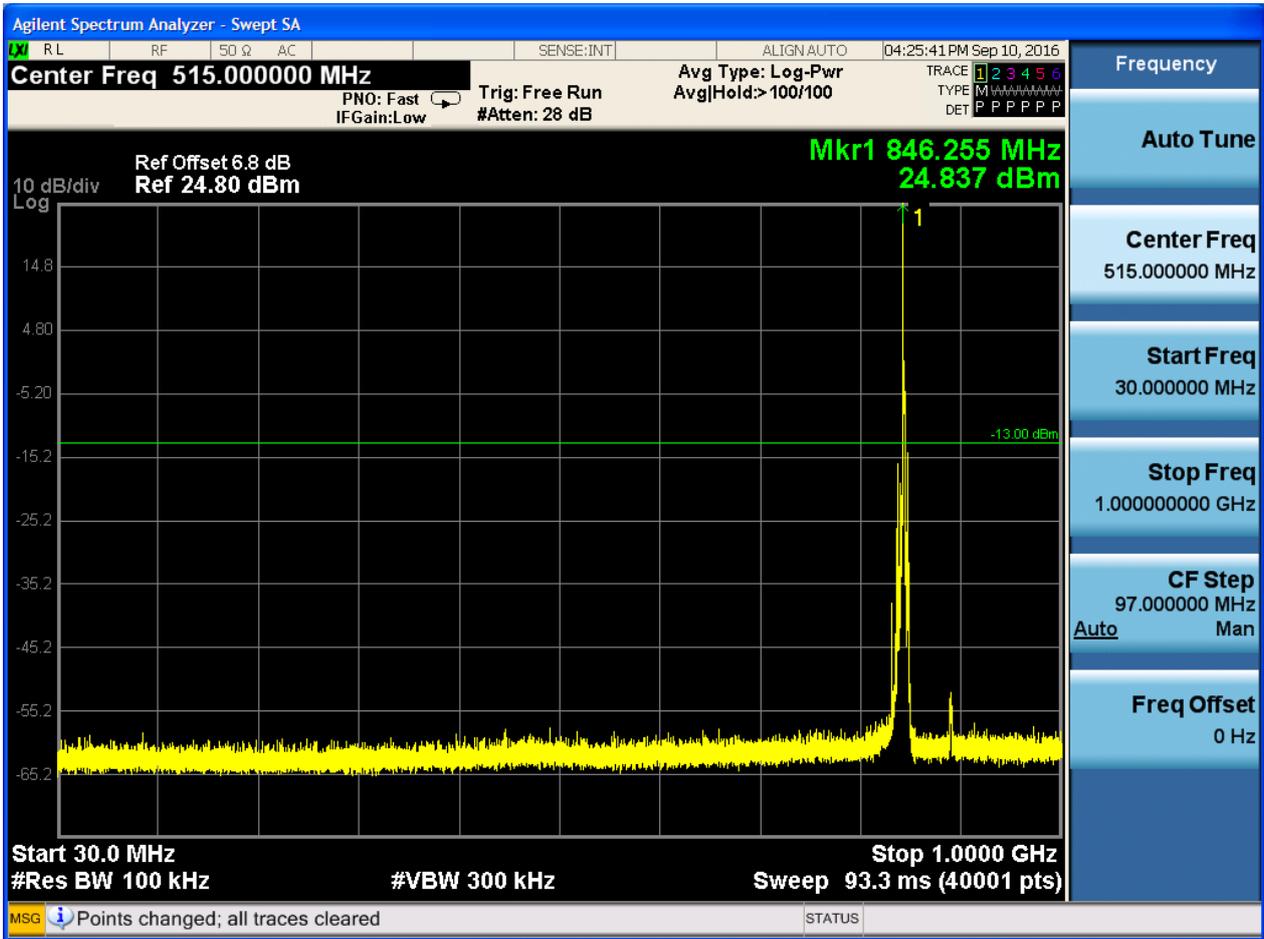


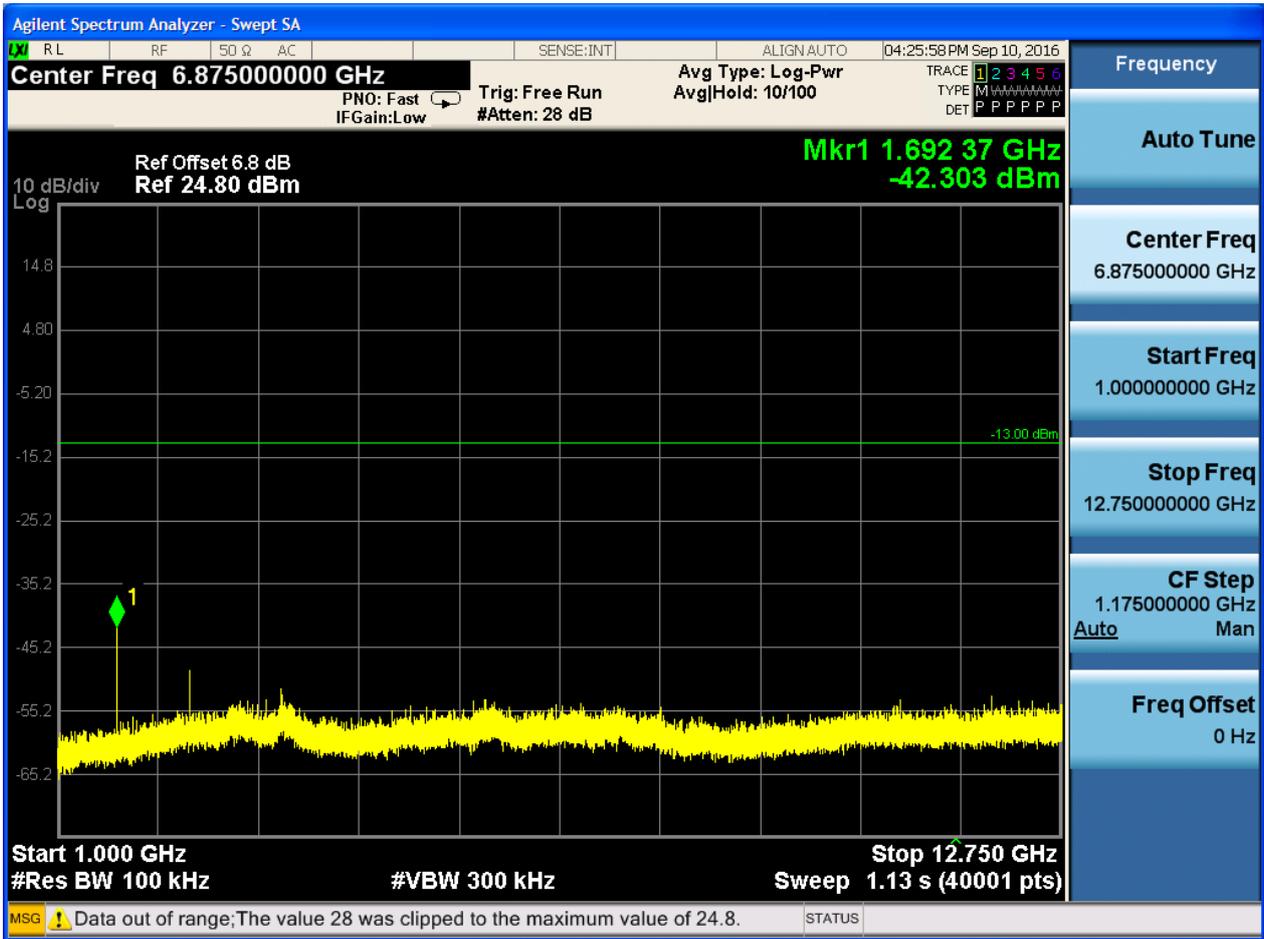
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







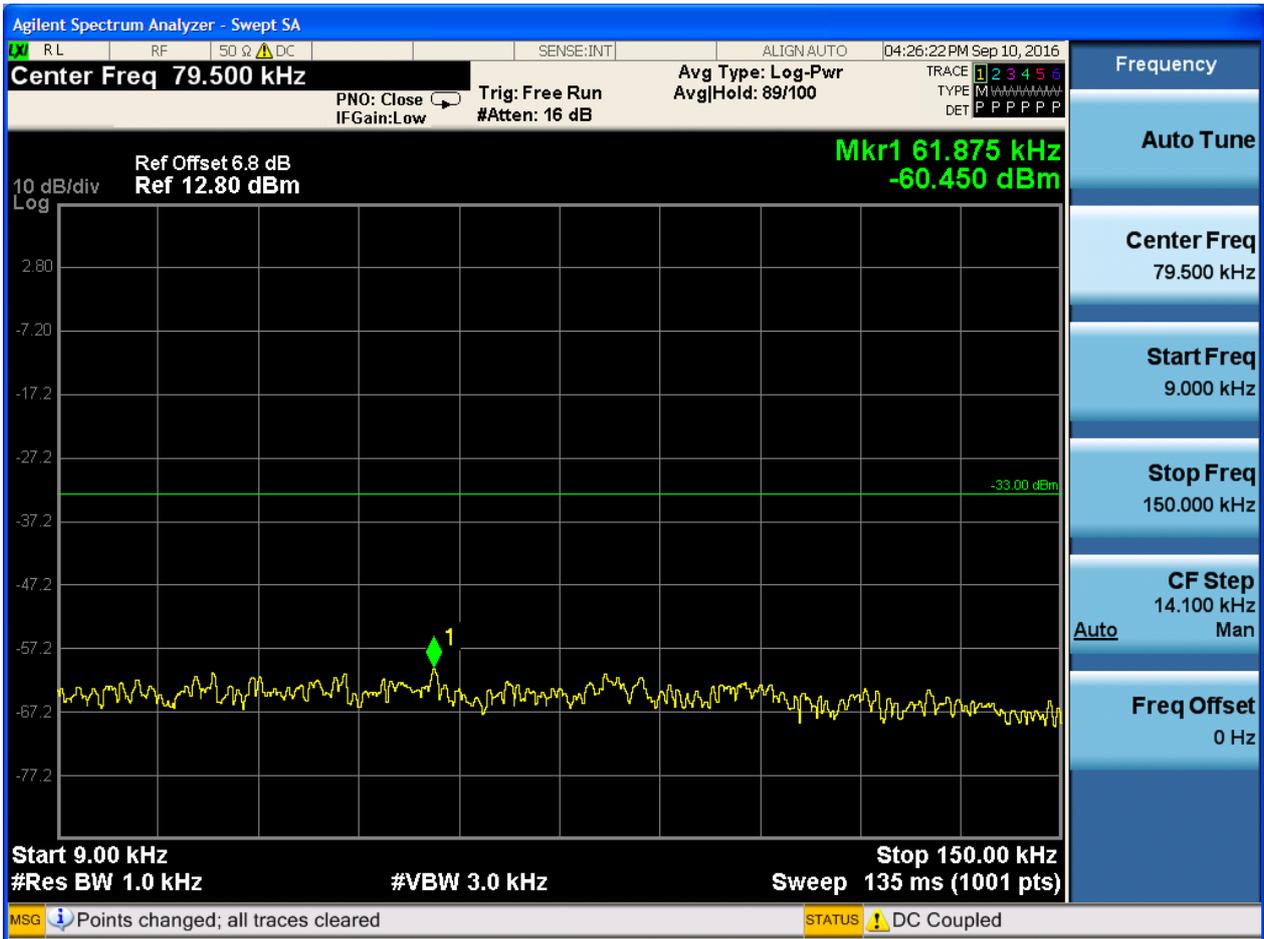


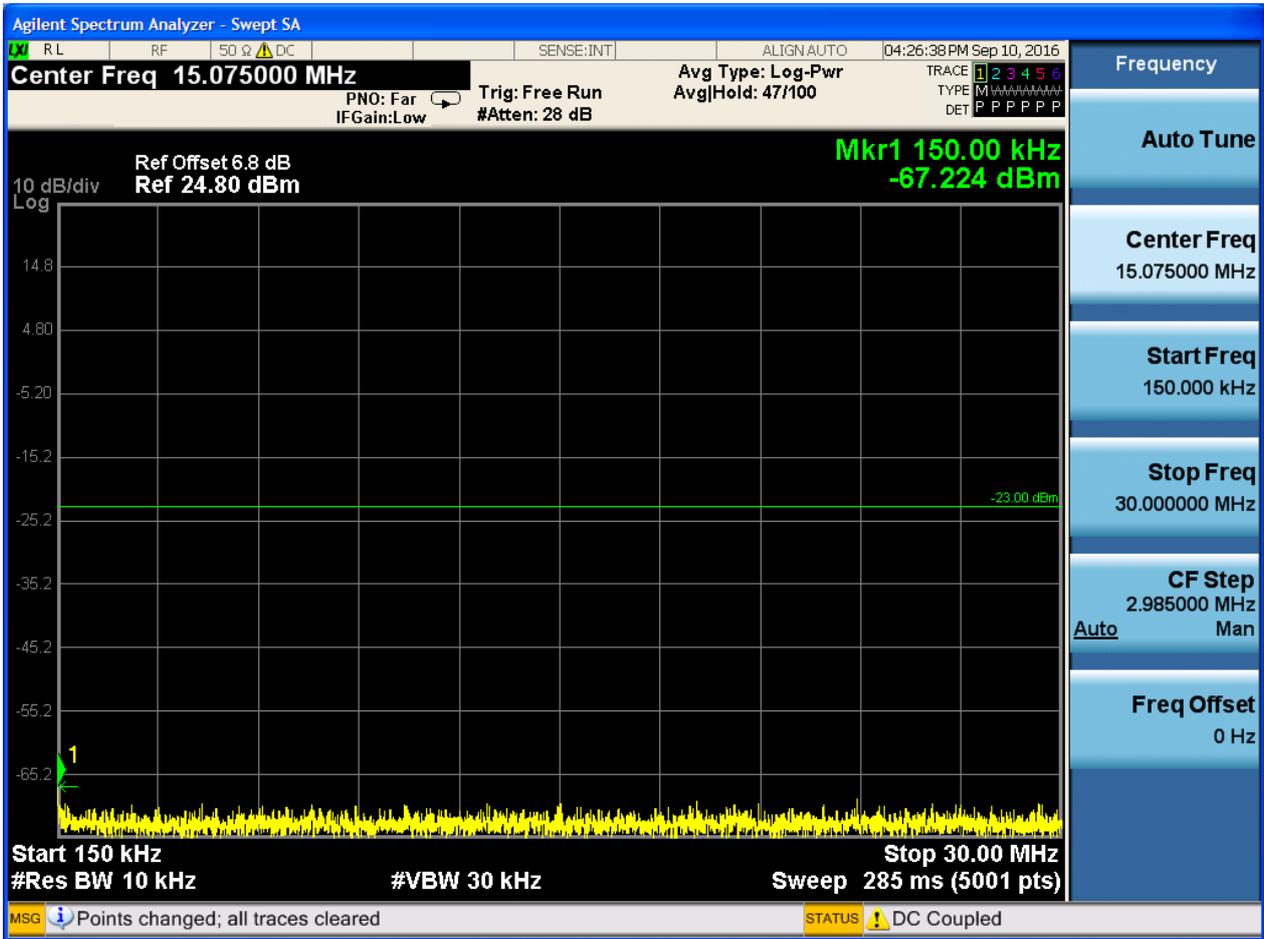


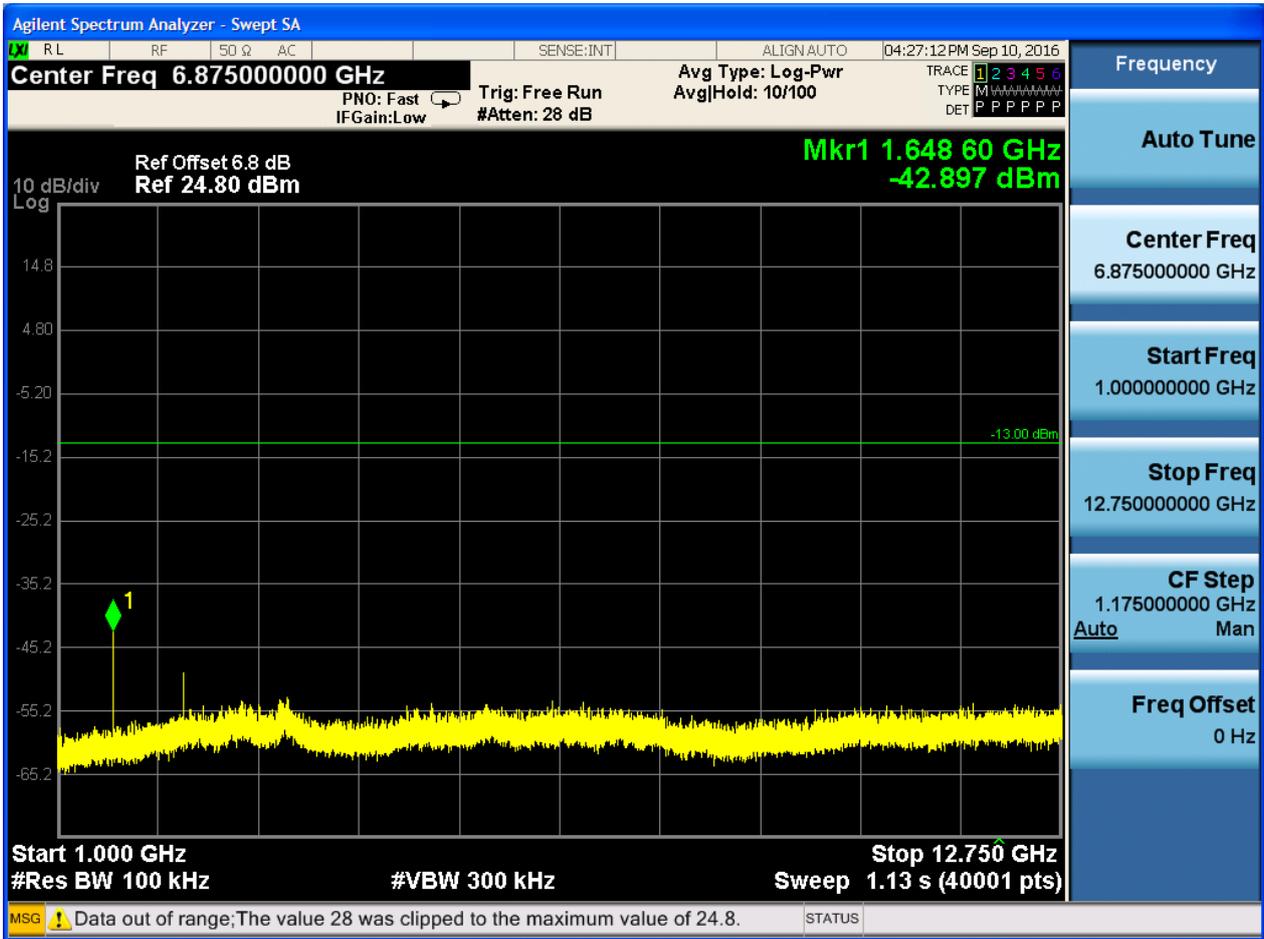
6.1.1.2.3 Test Bandwidth = 5

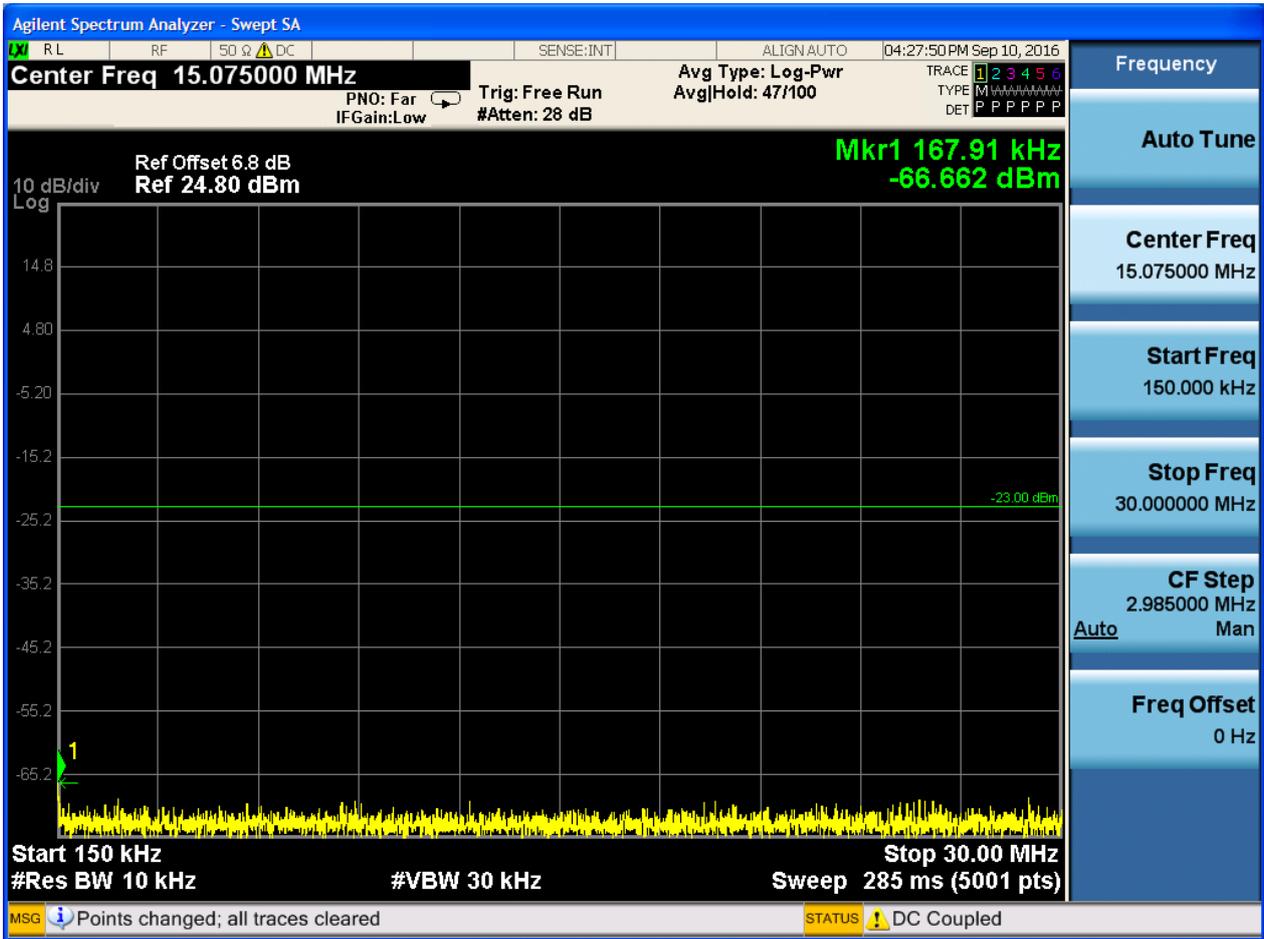
6.1.1.2.3.1 Test Channel = LCH

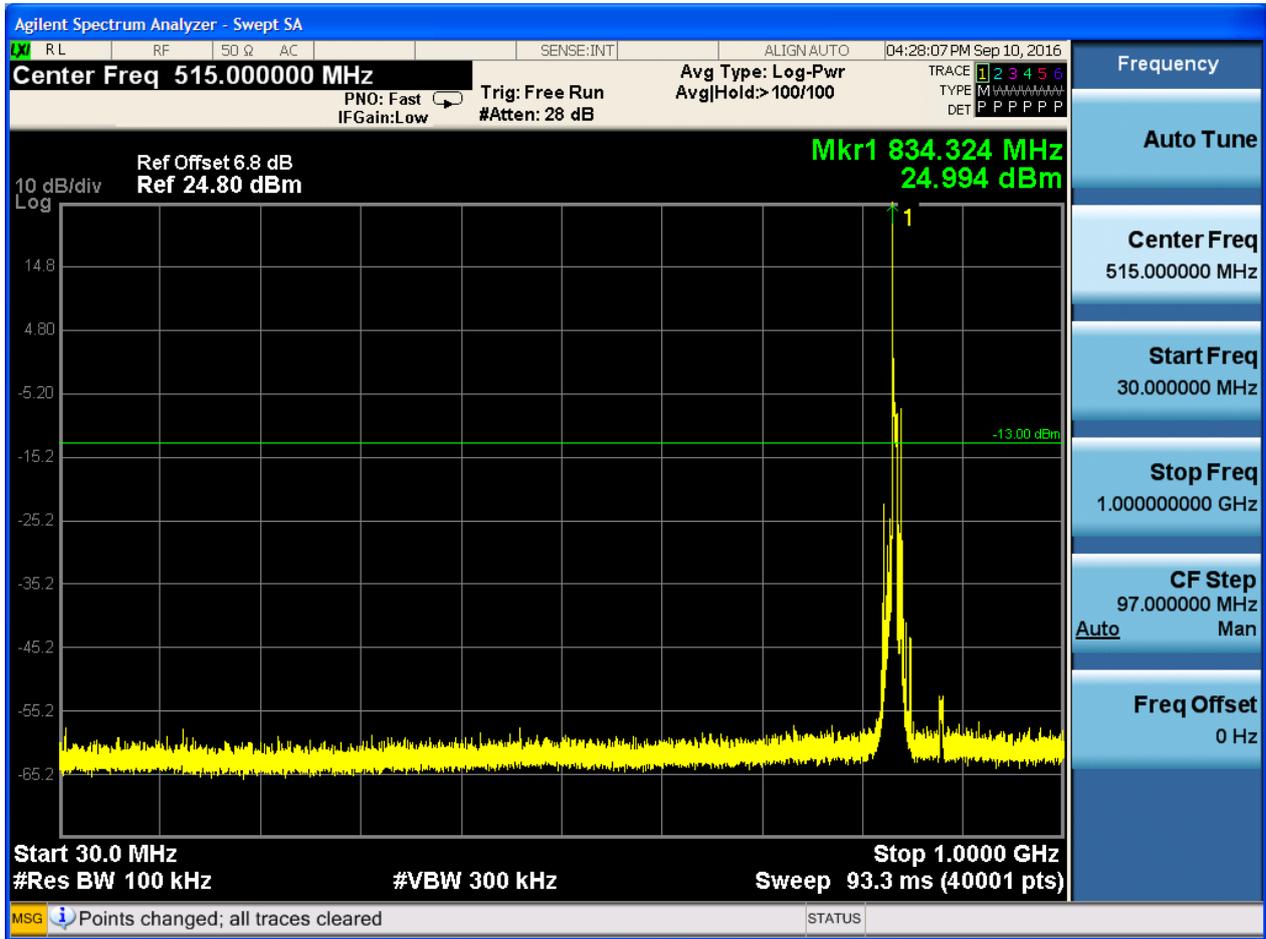
6.1.1.2.3.1.1 Test RB = RB1#0

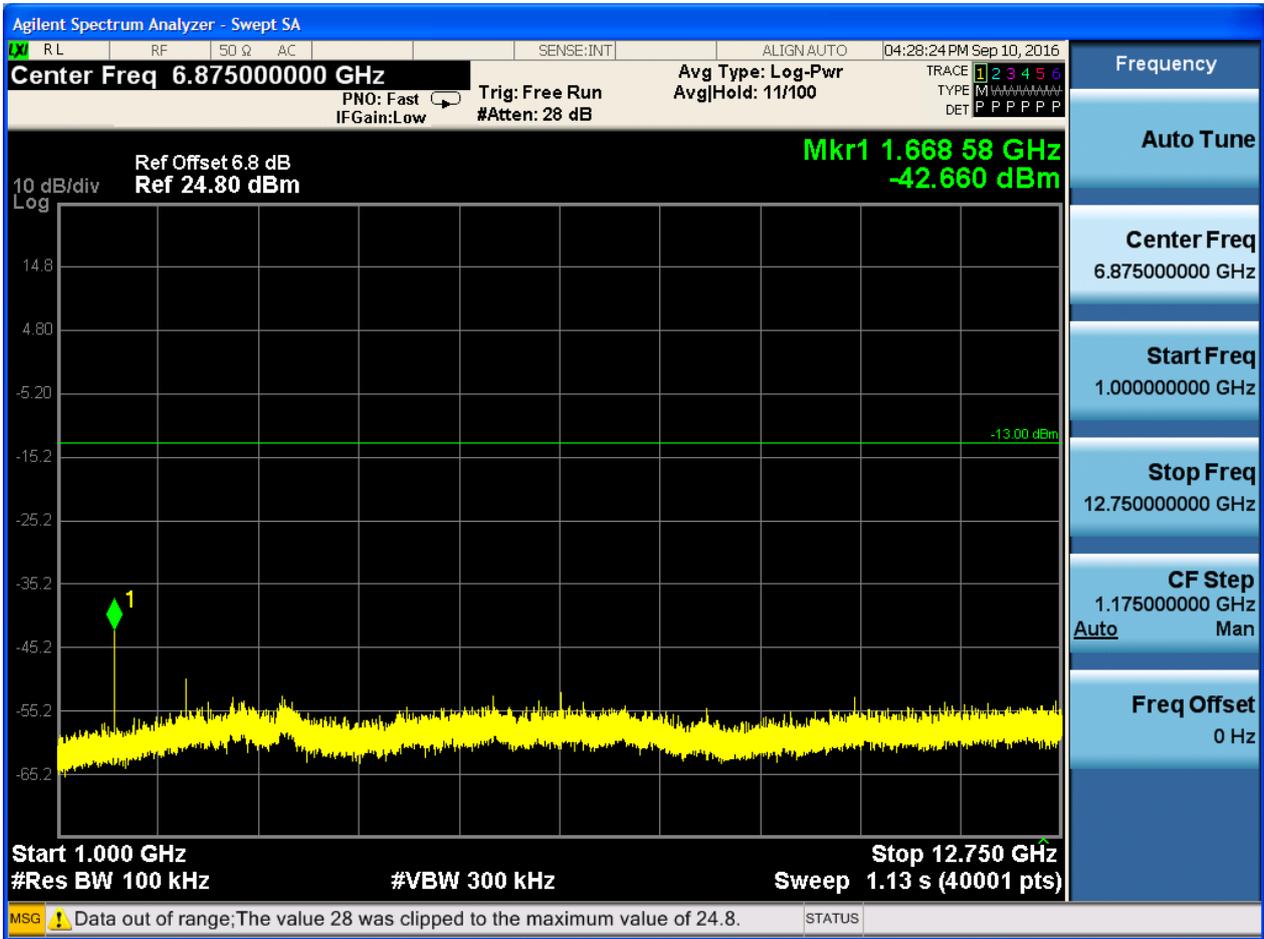








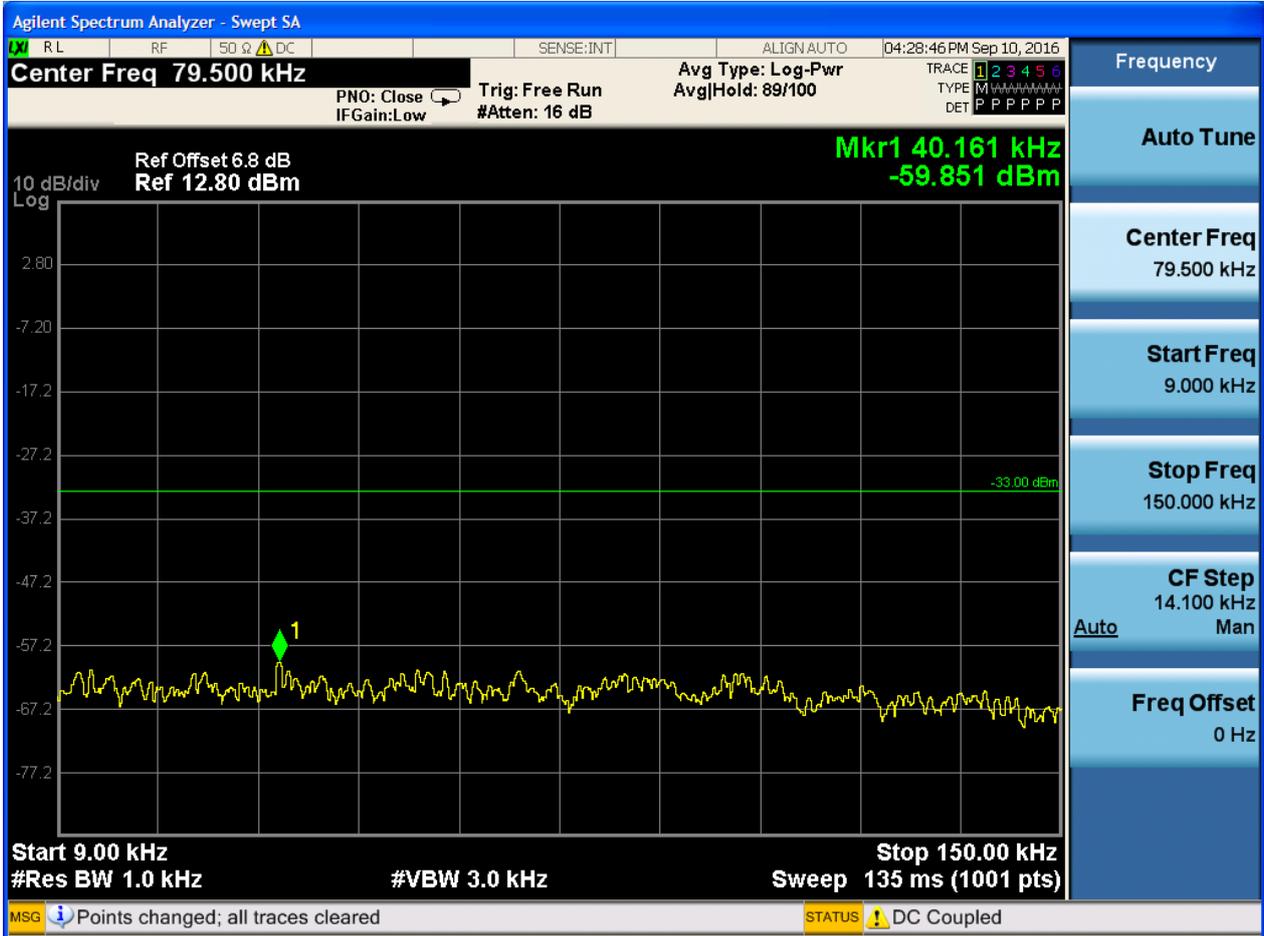


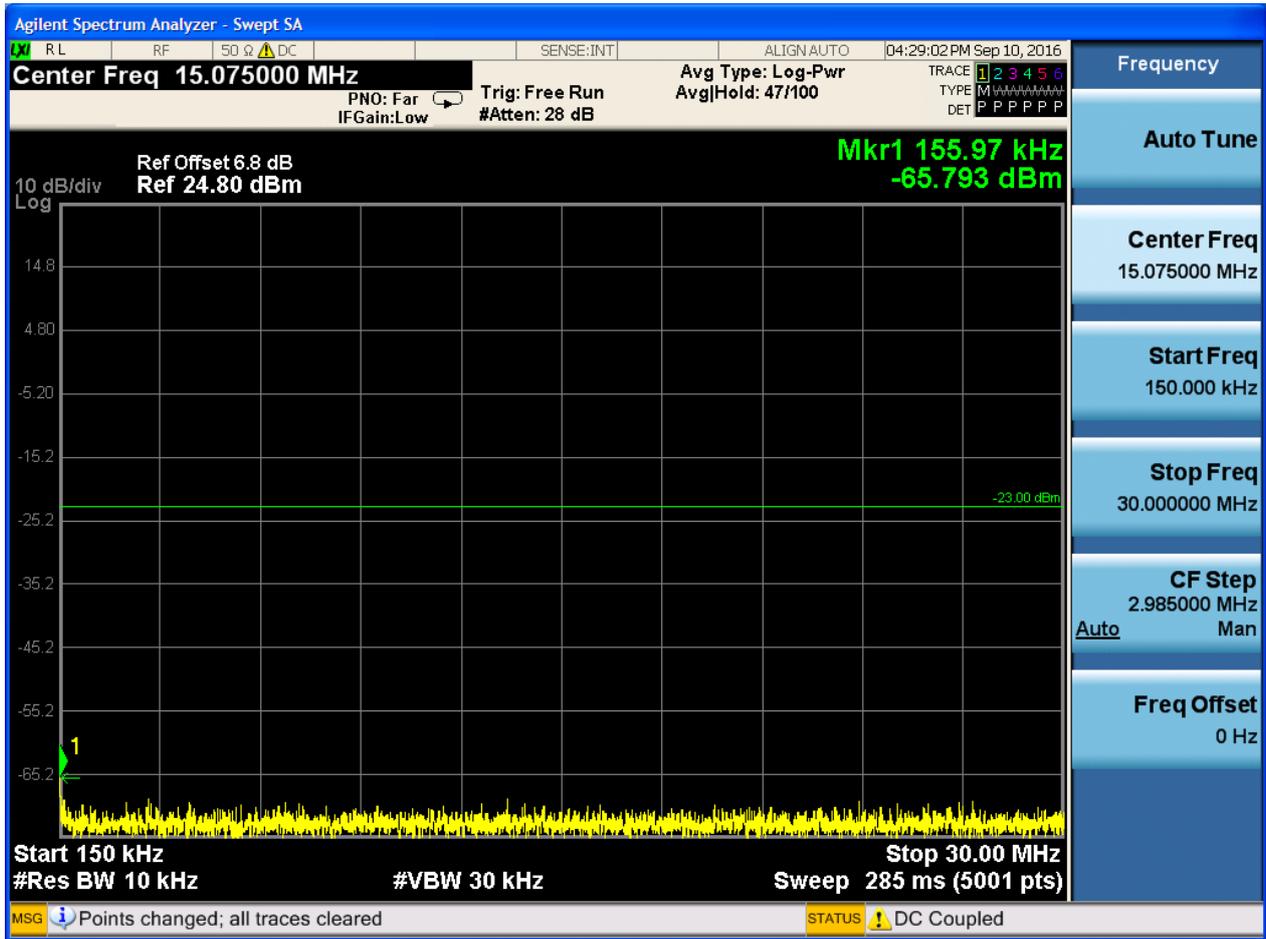


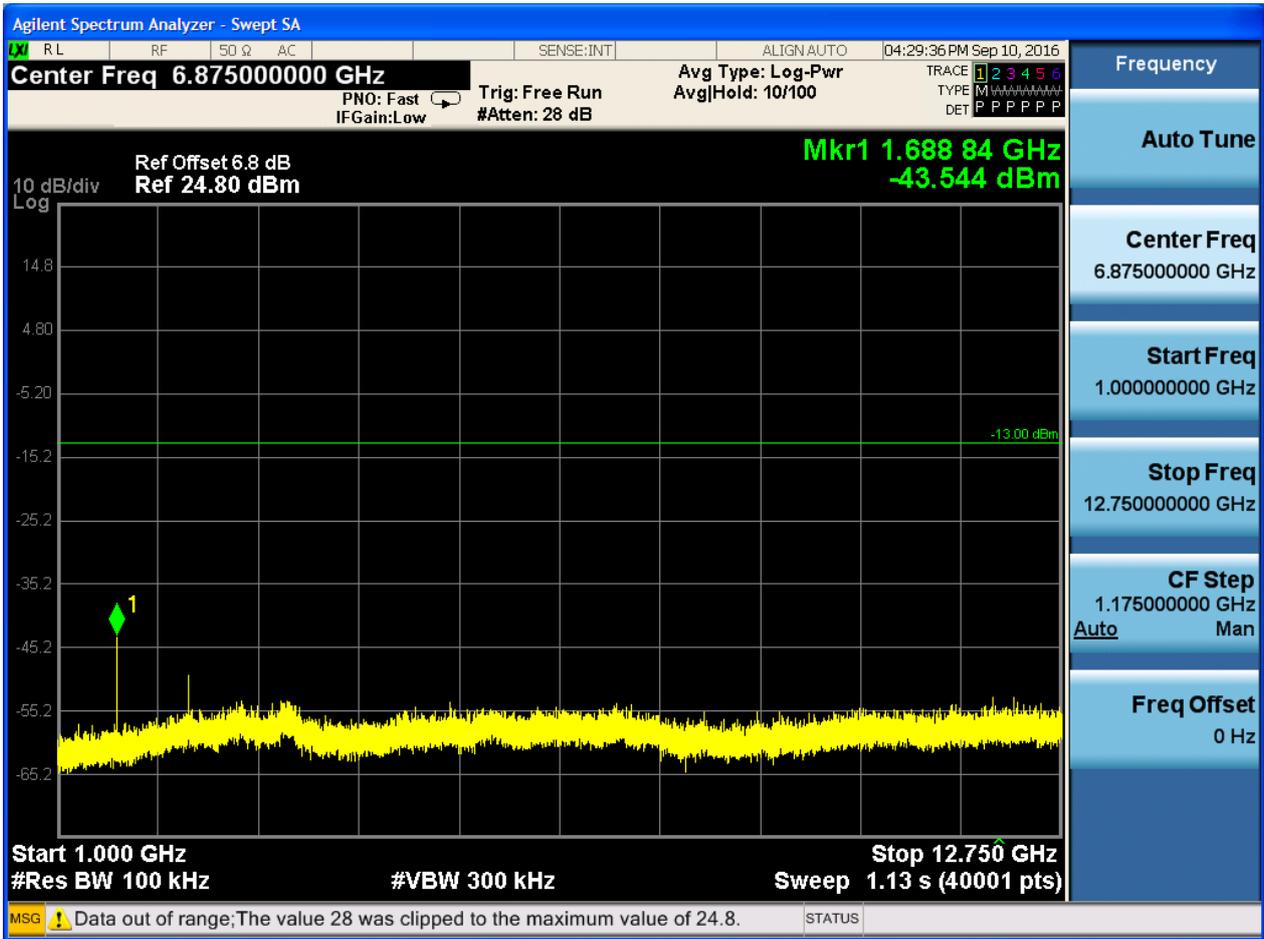


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





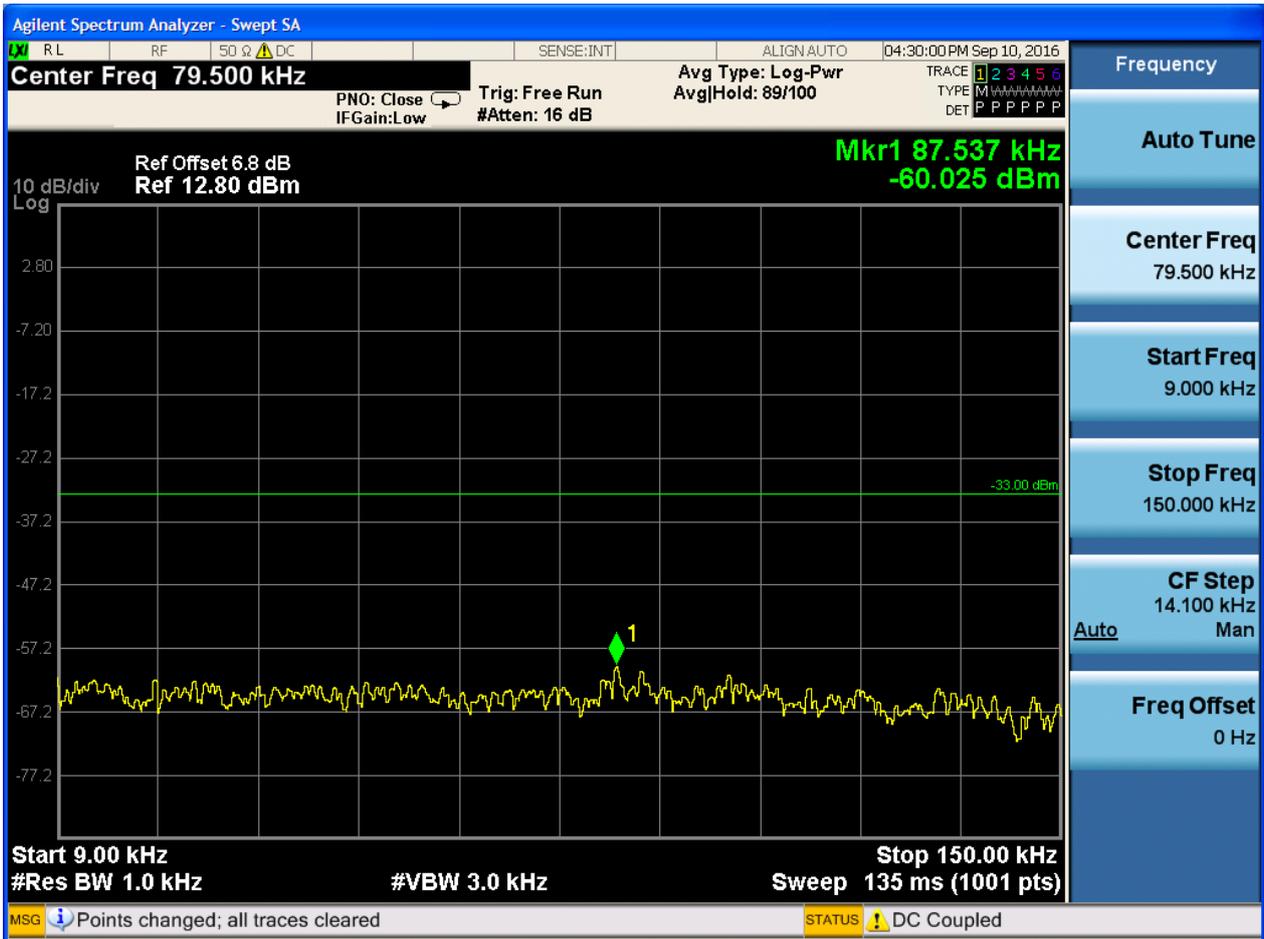




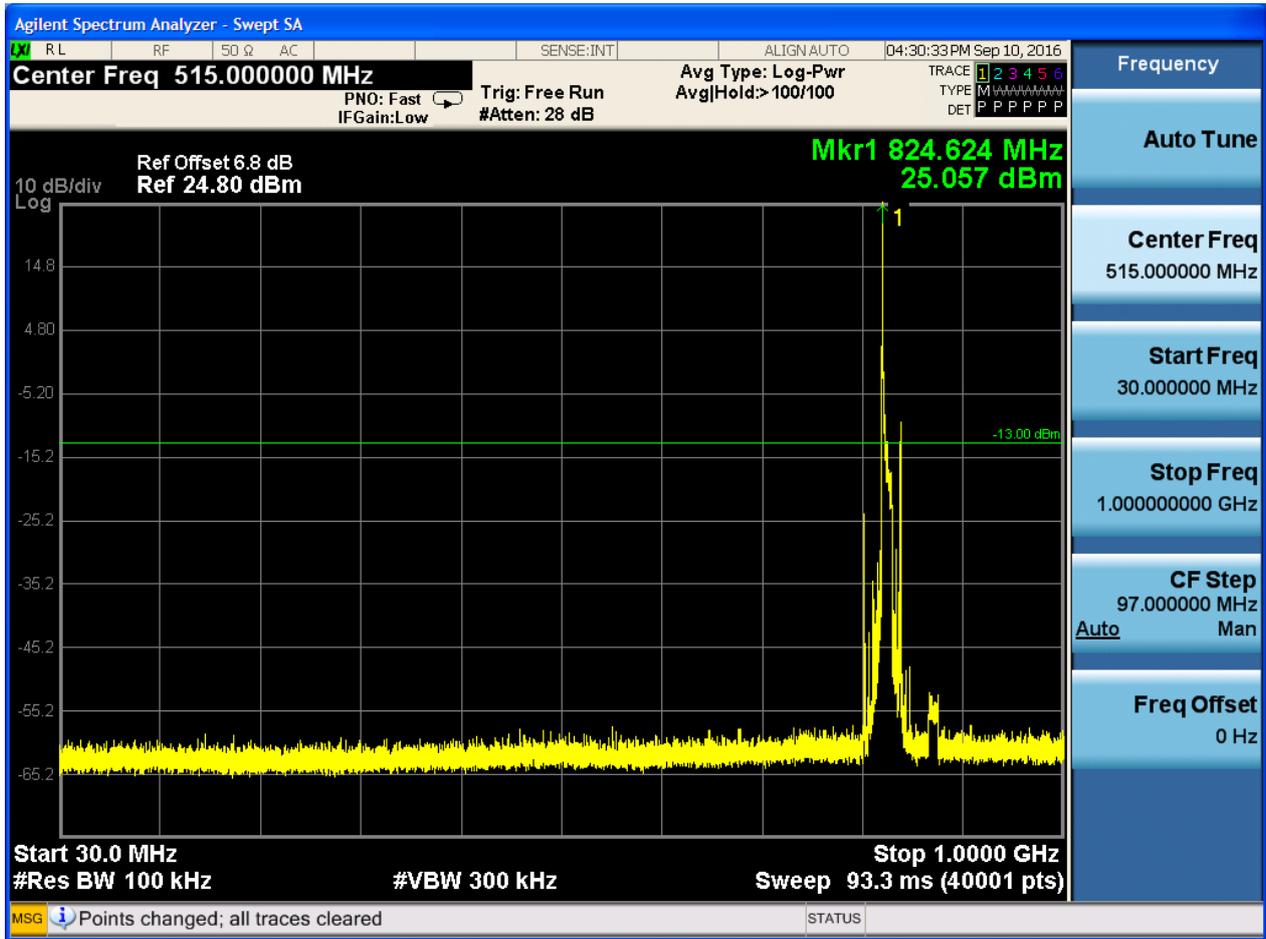
6.1.1.2.4 Test Bandwidth = 10

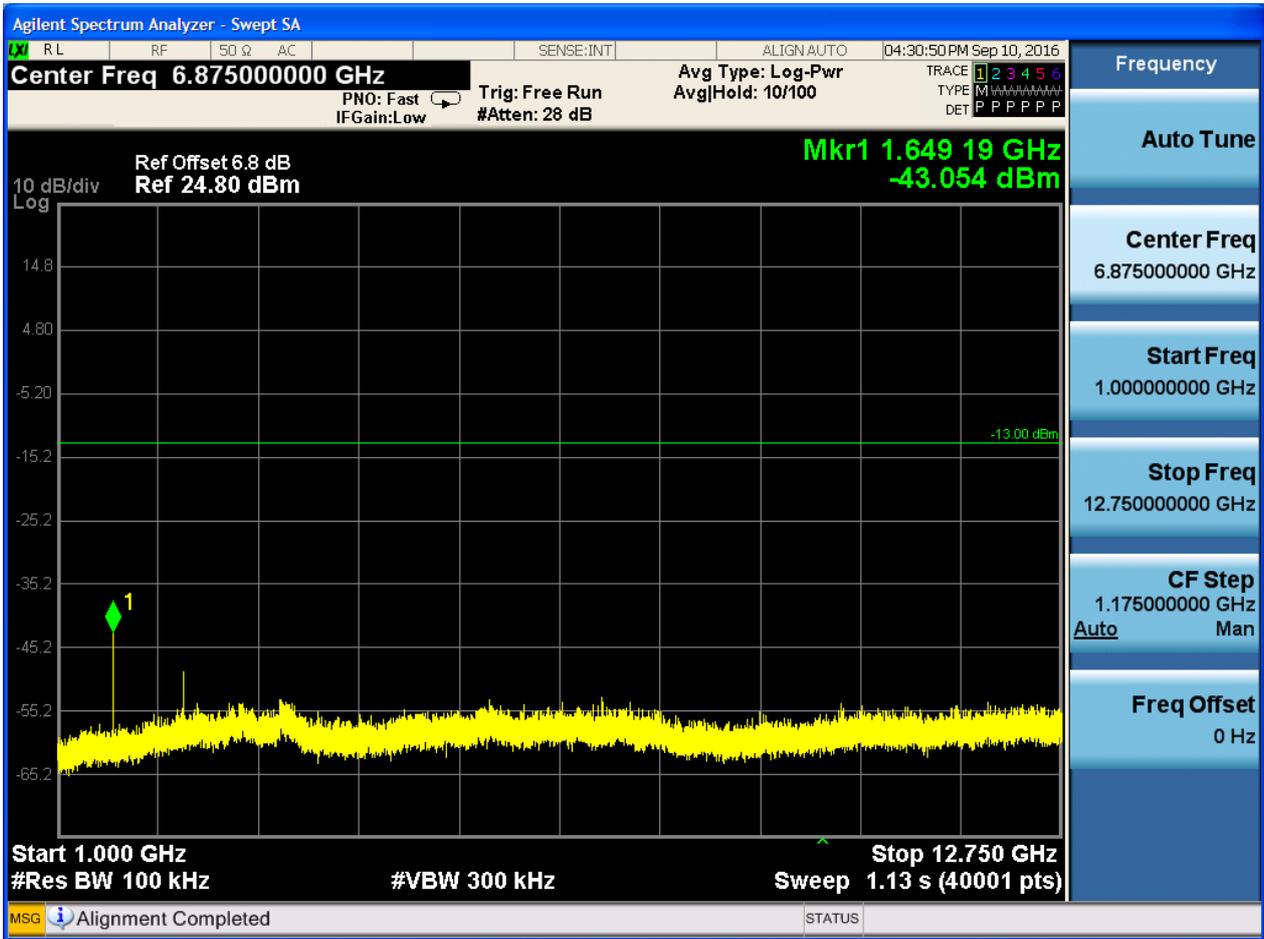
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

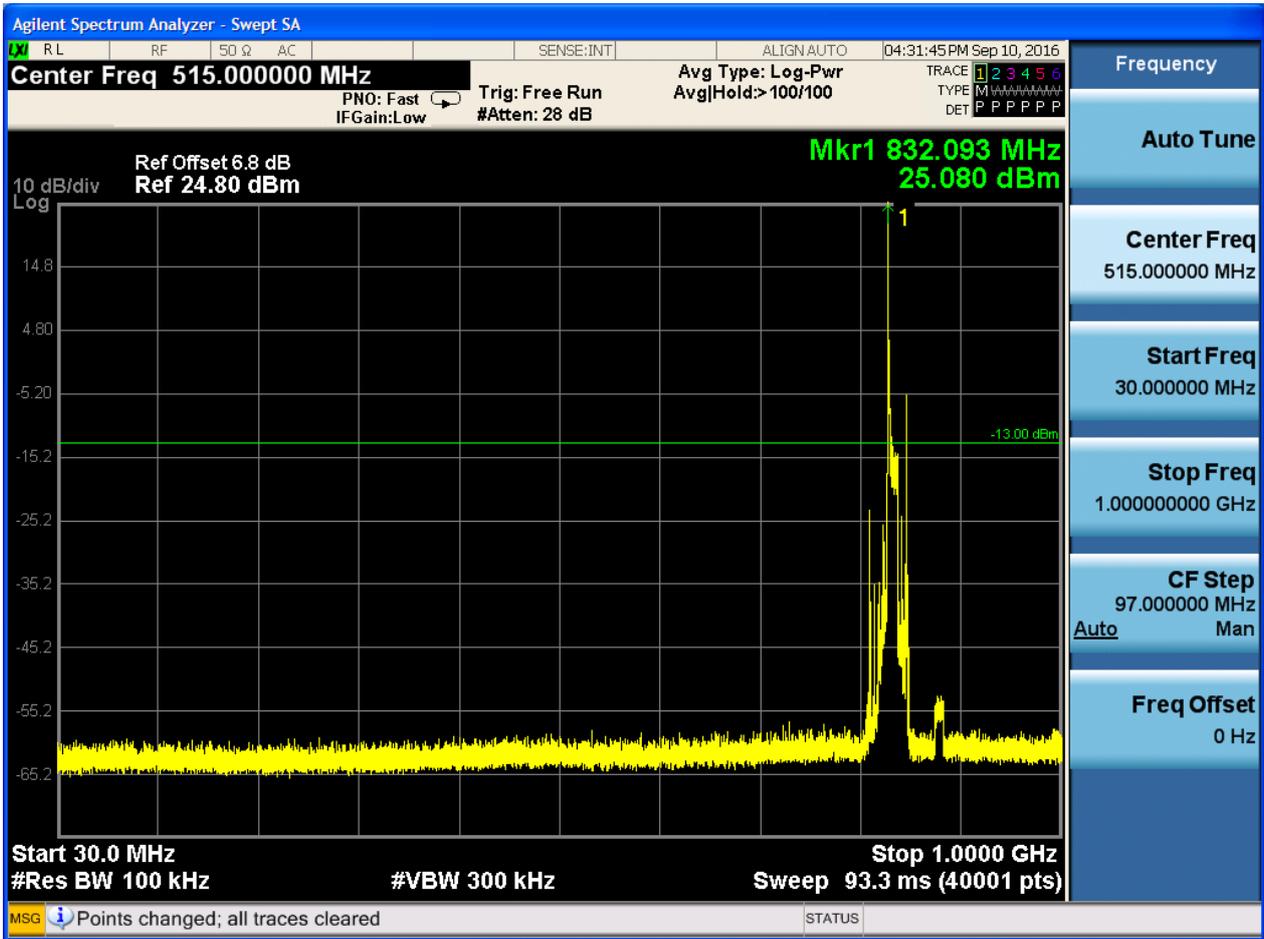


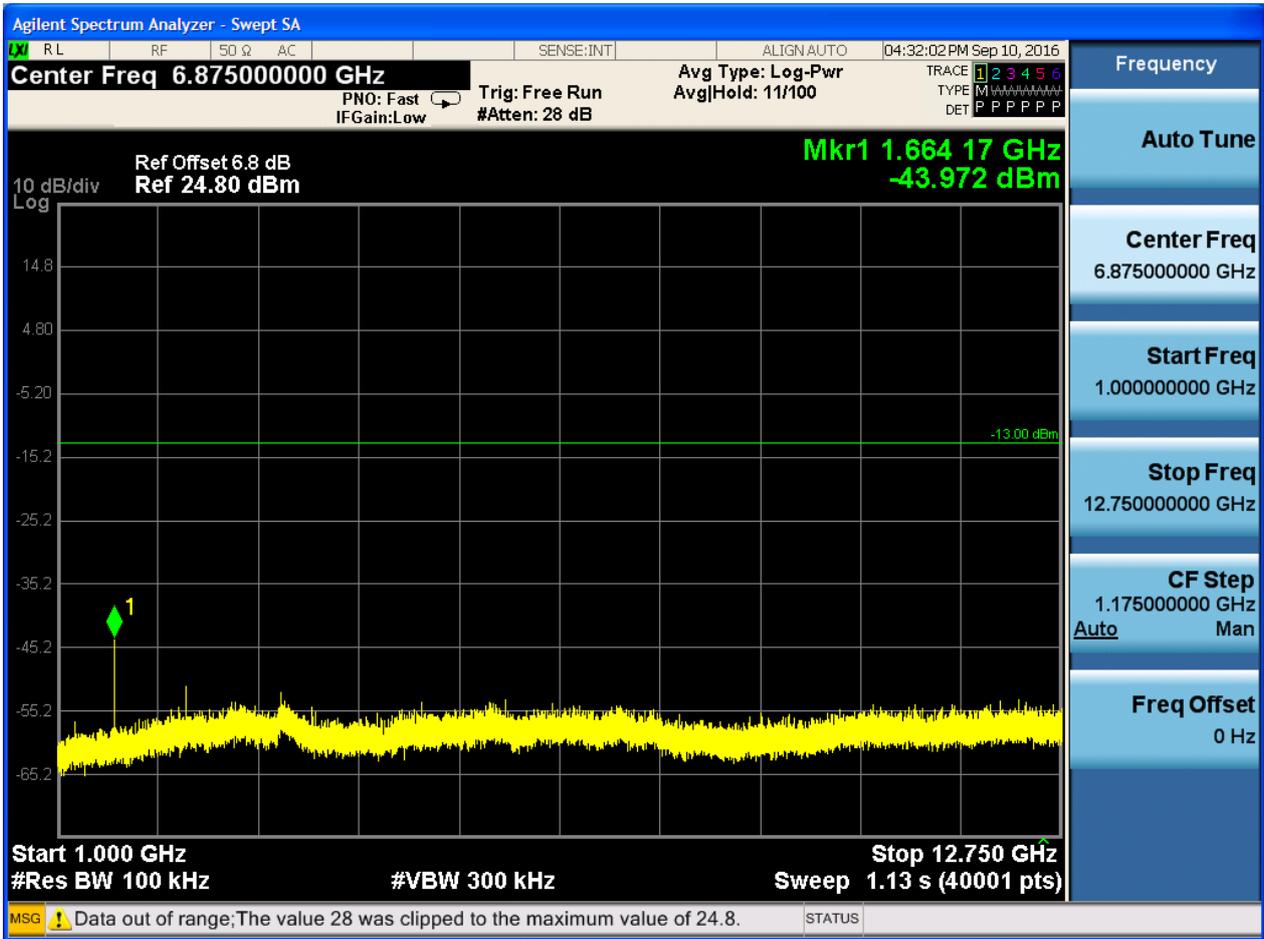








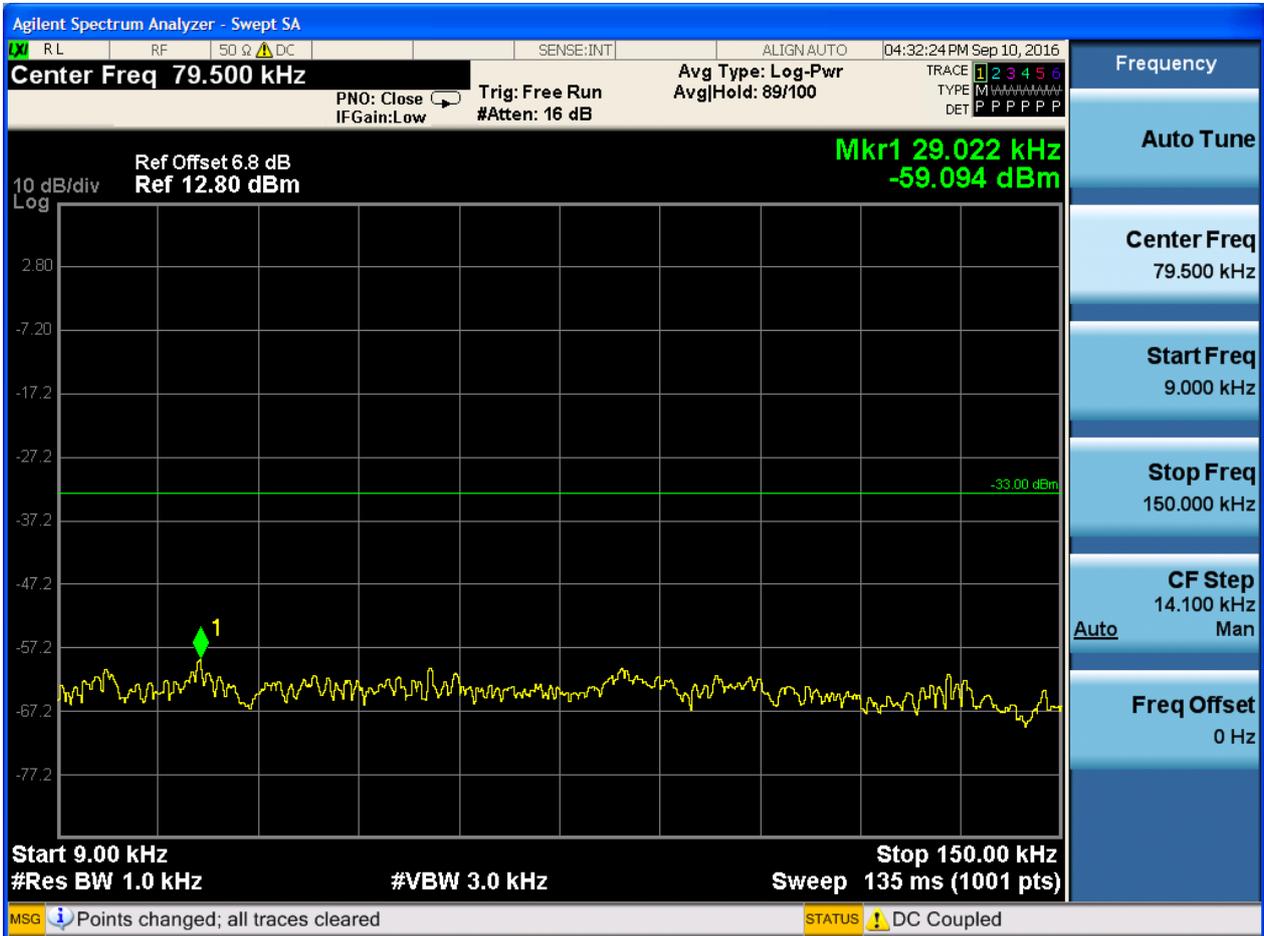




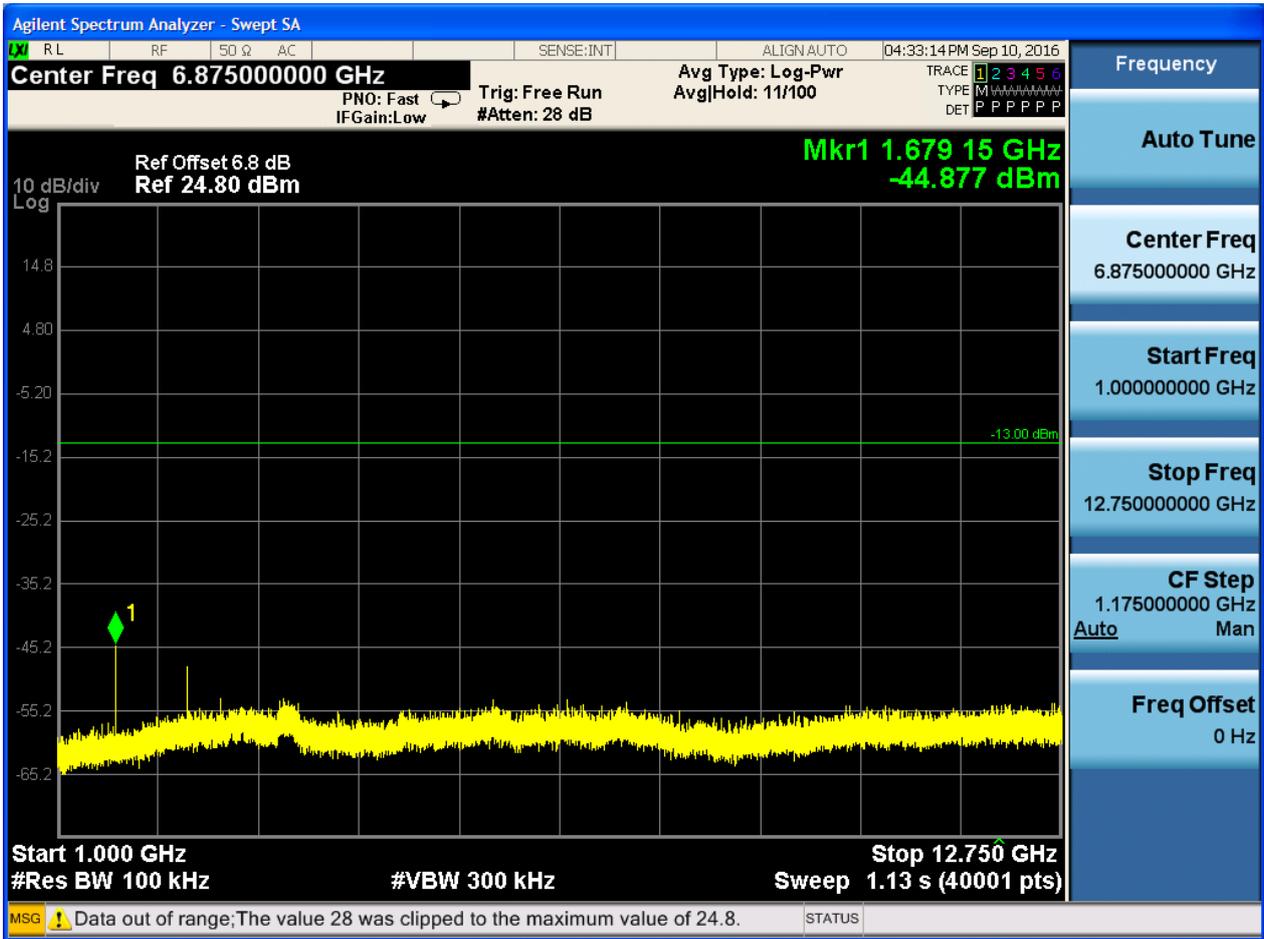


6.1.1.2.4.3 Test Channel = HCH

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

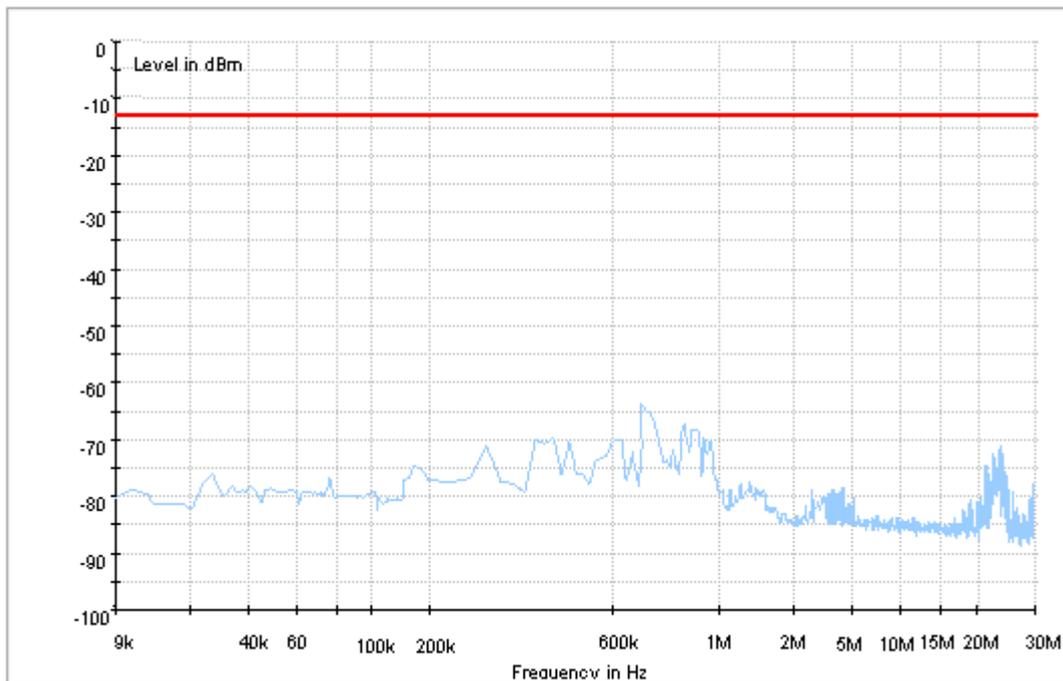
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

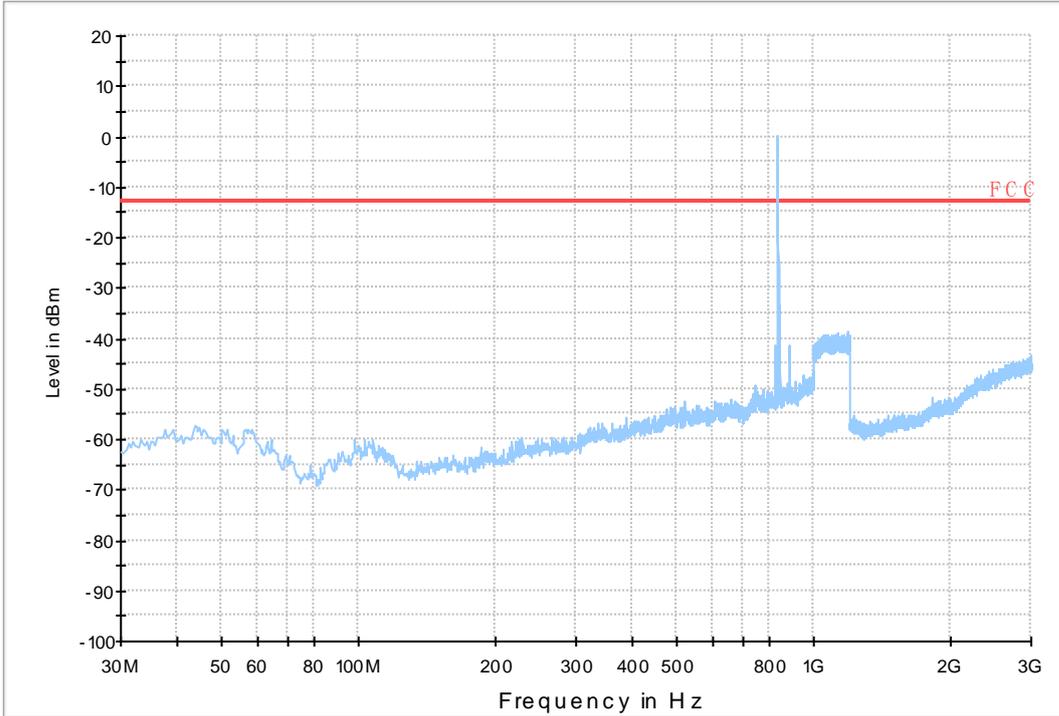
7.1 For LTE

7.1.1 Test Band = BAND5_Ant1

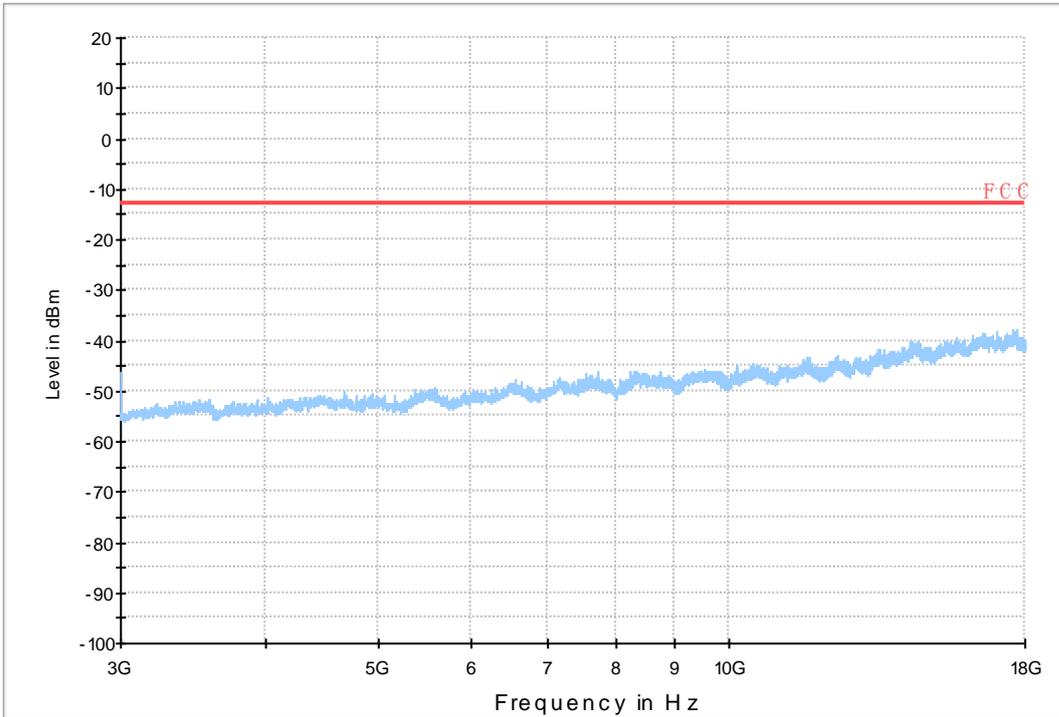
7.1.1.1 Test Bandwidth = 1.4



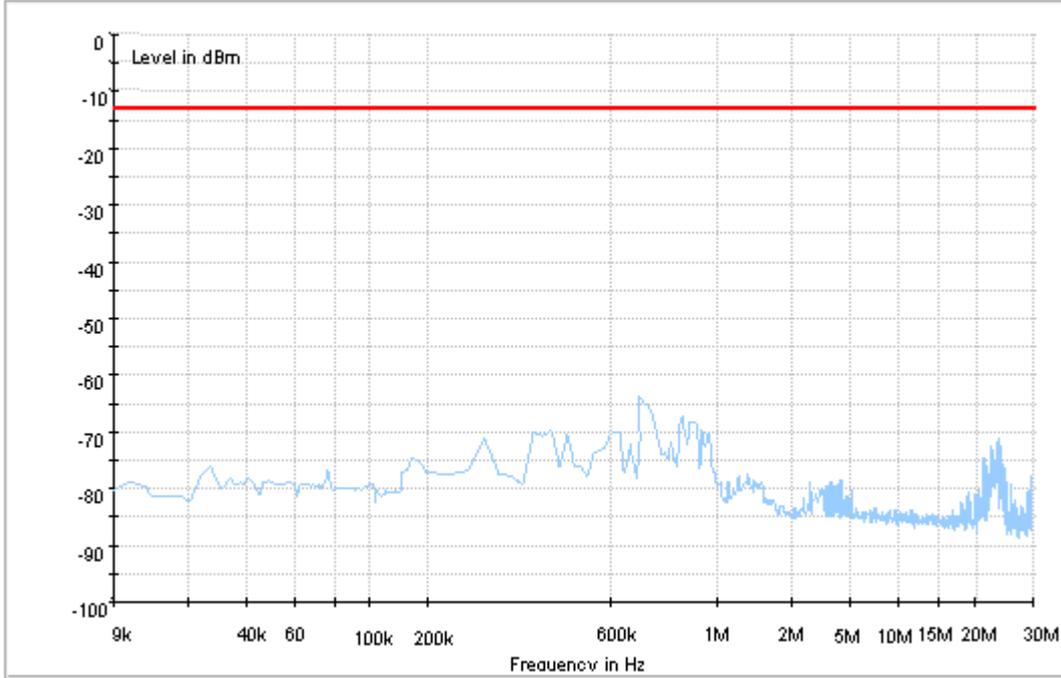
Copy of RSE-TX-DIRECTOR BELOW 1G_L



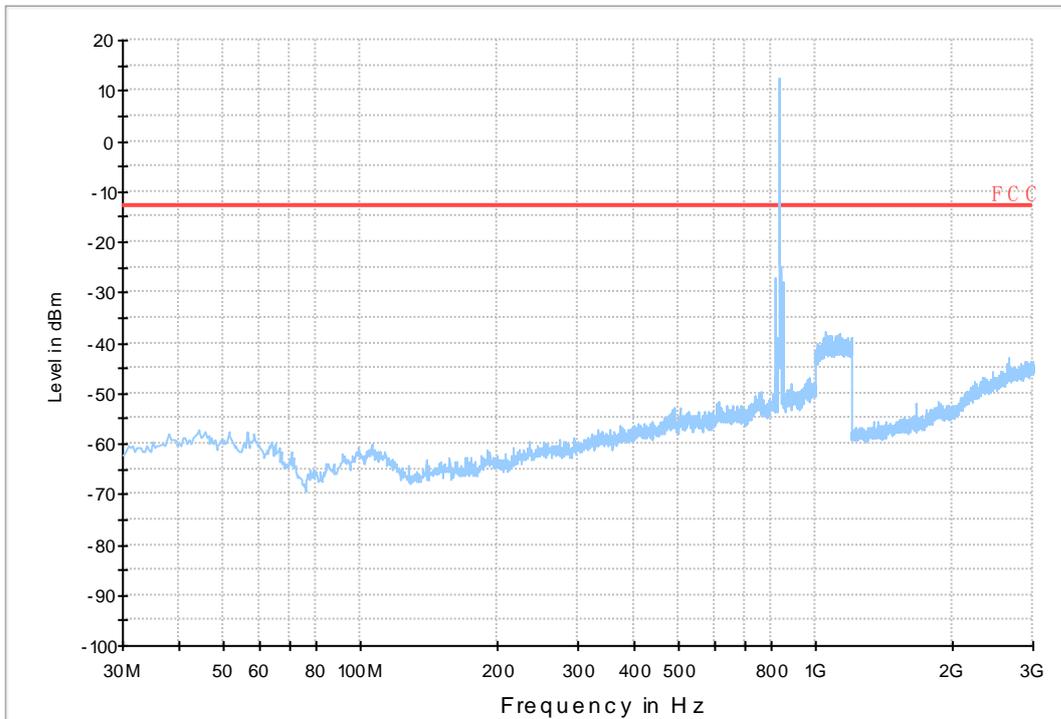
Copy of RSE-TX-DIRECTOR BELOW 1G_H



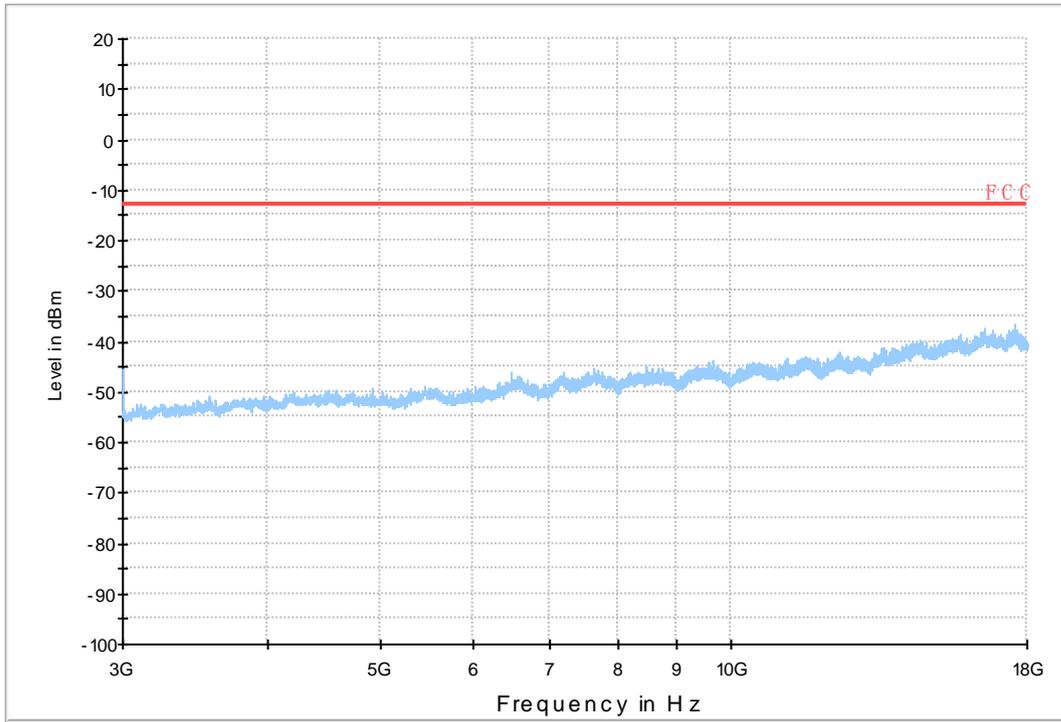
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

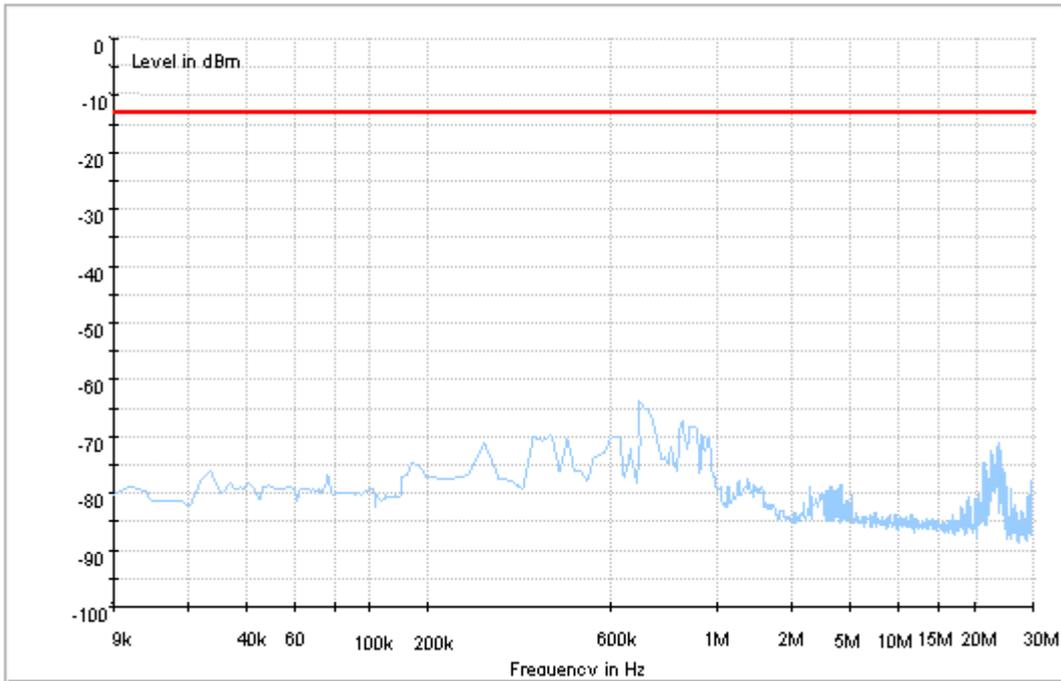


Copy of RSE-TX-DIRECTOR BELOW 1G_H

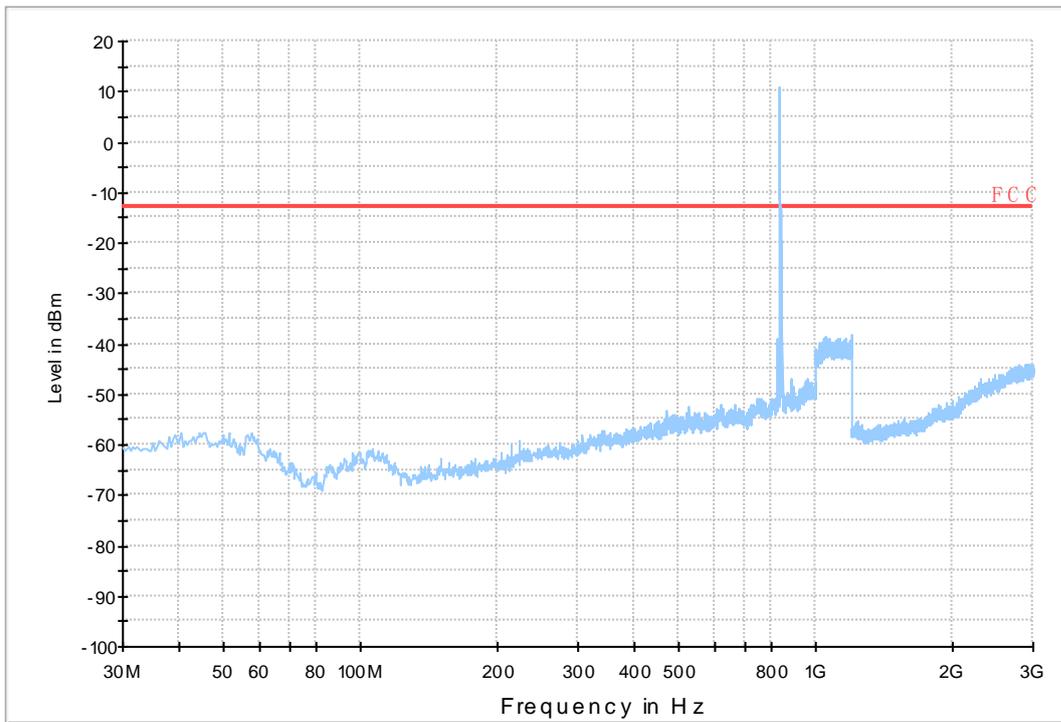


7.1.2 Test Band = BAND5_Ant2

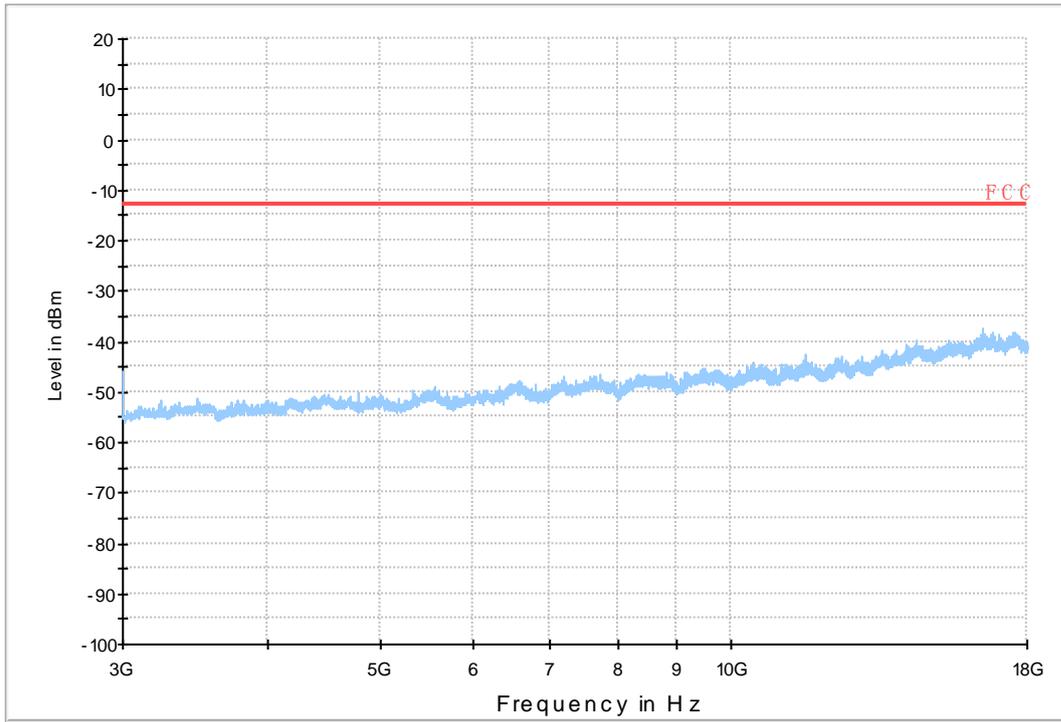
7.1.2.1 Test Bandwidth = 1.4



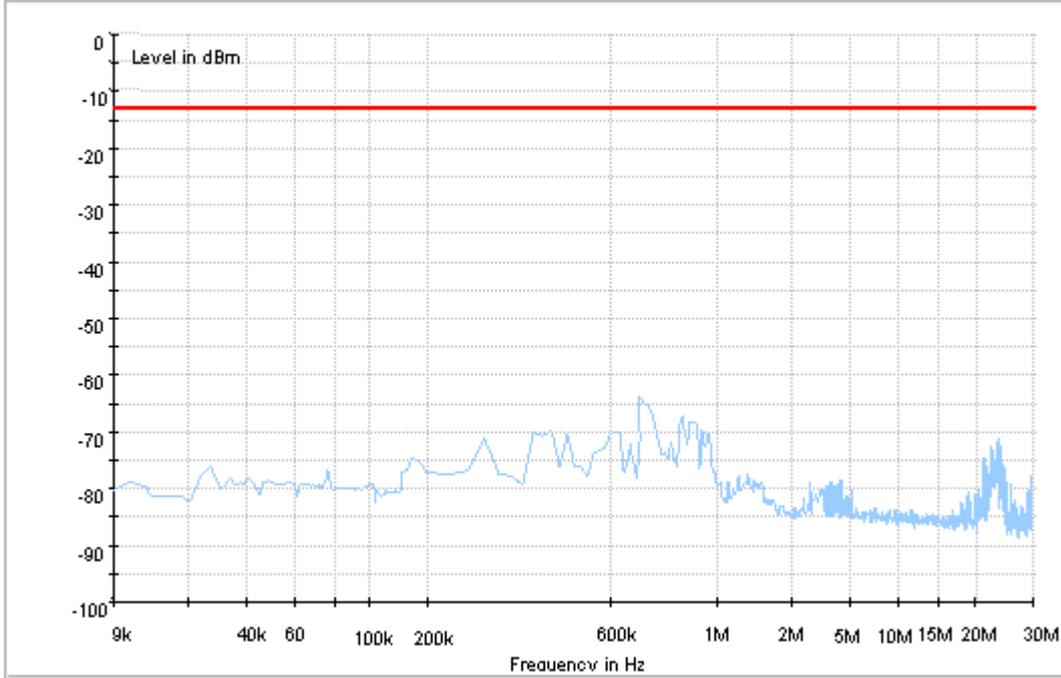
Copy of RSE-TX-DIRECTOR BELOW 1G_L



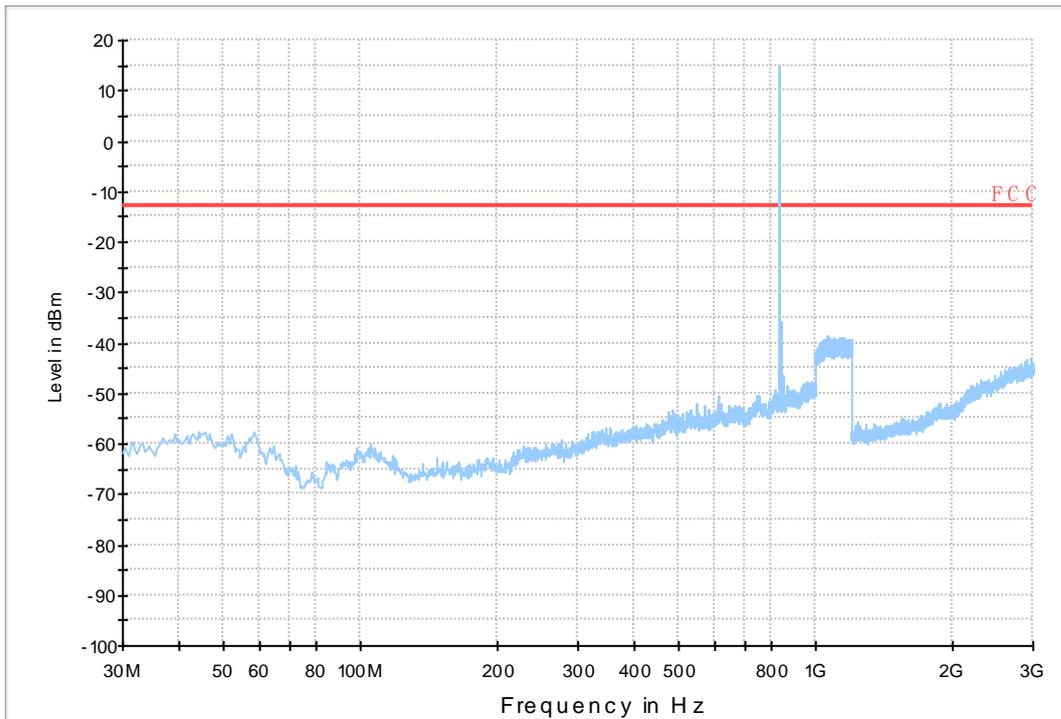
Copy of RSE-TX-DIRECTOR BELOW 1G_H



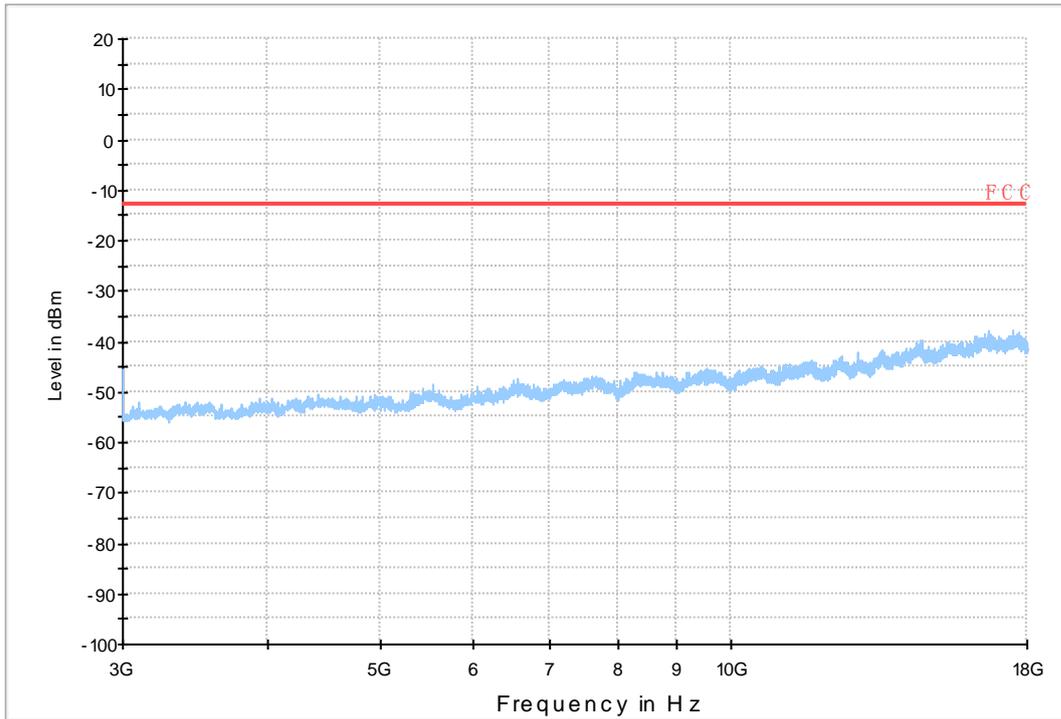
7.1.2.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	TN	VL	-16.18	-0.01962	PASS
					VN	6.24	0.00757	PASS
					VH	7.07	0.00857	PASS
			MCH	TN	VL	1.14	0.00136	PASS
					VN	2.80	0.00335	PASS
					VH	-15.64	-0.0187	PASS
			HCH	TN	VL	0.10	0.00012	PASS
					VN	-5.24	-0.00618	PASS
					VH	5.66	0.00667	PASS
		3	LCH	TN	VL	-2.17	-0.00263	PASS
					VN	-2.32	-0.00281	PASS
					VH	5.81	0.00704	PASS
			MCH	TN	VL	11.99	0.01433	PASS
					VN	7.75	0.00926	PASS
					VH	-4.25	-0.00508	PASS
			HCH	TN	VL	-1.90	-0.00224	PASS
					VN	-6.75	-0.00796	PASS
					VH	-4.09	-0.00483	PASS
		5	LCH	TN	VL	1.54	0.00186	PASS
					VN	-0.80	-0.00097	PASS
					VH	3.02	0.00365	PASS
			MCH	TN	VL	-2.72	-0.00325	PASS
					VN	0.24	0.00029	PASS
					VH	-6.24	-0.00746	PASS
			HCH	TN	VL	-12.36	-0.0146	PASS
					VN	0.33	0.00039	PASS
					VH	3.19	0.00377	PASS
		10	LCH	TN	VL	-11.92	-0.01438	PASS
					VN	-3.19	-0.00385	PASS
					VH	-0.72	-0.00087	PASS
				MCH	TN	VL	-11.53	-0.01378

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.36	0.00043	PASS
					VH	-10.11	-0.01209	PASS
					VL	3.08	0.00365	PASS
			HCH	TN	VN	-2.88	-0.00341	PASS
					VH	0.27	0.00032	PASS
					VL	-4.13	-0.00501	PASS
		1.4	LCH	TN	VN	-16.37	-0.01985	PASS
					VH	8.33	0.0101	PASS
					VL	-18.77	-0.02244	PASS
			MCH	TN	VN	-0.74	-0.00088	PASS
					VH	-5.26	-0.00629	PASS
					VL	-0.99	-0.00117	PASS
	3	HCH	TN	VN	9.21	0.01086	PASS	
				VH	-22.03	-0.02597	PASS	
				VL	3.45	0.00418	PASS	
		LCH	TN	VN	4.59	0.00556	PASS	
				VH	1.42	0.00172	PASS	
				VL	-0.82	-0.00098	PASS	
	5	MCH	TN	VN	11.63	0.0139	PASS	
				VH	1.03	0.00123	PASS	
				VL	0.76	0.0009	PASS	
		HCH	TN	VN	0.87	0.00103	PASS	
				VH	-7.65	-0.00903	PASS	
				VL	-1.93	-0.00234	PASS	
	10	LCH	TN	VN	-4.49	-0.00543	PASS	
				VH	-2.45	-0.00296	PASS	
				VL	-0.59	-0.00071	PASS	
		MCH	TN	VN	-13.65	-0.01632	PASS	
				VH	-7.60	-0.00909	PASS	
				VL	-8.01	-0.00946	PASS	
	LTE/TM2	HCH	TN	VN	1.72	0.00203	PASS	
				VH	1.63	0.00193	PASS	
				VL	0.53	0.00064	PASS	
		LCH	TN	VN	-6.08	-0.00733	PASS	
				VH	14.31	0.01726	PASS	
				VL	0.70	0.00084	PASS	
	MCH	TN	VN	-4.28	-0.00512	PASS		
			VH	0.11	0.00013	PASS		
			VL	1.26	0.00149	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	3.20	0.00379	PASS
					VH	0.26	0.00031	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	3.65	0.00043	PASS
					-20	4.47	0.00142	PASS
					-10	-0.04	-0.00405	PASS
					0	-12.65	-0.01934	PASS
					10	8.86	0.00675	PASS
					20	4.61	0.00159	PASS
					30	-16.17	-0.0236	PASS
					40	-12.85	-0.01958	PASS
					50	-6.82	-0.01227	PASS
			MCH	VN	-30	-2.48	-0.00698	PASS
					-20	-3.4	-0.00808	PASS
					-10	-6.57	-0.01187	PASS
					0	-0.67	-0.00481	PASS
					10	0.86	-0.00298	PASS
					20	6.57	0.00384	PASS
					30	-4.07	-0.00888	PASS
					40	1.95	-0.00168	PASS
					50	10.42	0.00844	PASS
		HCH	VN	-30	13.22	0.01156	PASS	
				-20	14.95	0.0136	PASS	
				-10	-7.46	-0.01282	PASS	
				0	-11.41	-0.01748	PASS	
				10	-11.27	-0.01731	PASS	
				20	-7.63	-0.01302	PASS	
				30	-7.85	-0.01328	PASS	
				40	-9.71	-0.01547	PASS	
				50	0.09	-0.00392	PASS	
		3	LCH	VN	-30	-4.17	-0.00905	PASS
					-20	-5.17	-0.01026	PASS
					-10	19.23	0.0193	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					0	8.62	0.00644	PASS			
					10	1.34	-0.00237	PASS			
					20	-10.51	-0.01673	PASS			
					30	7.03	0.00452	PASS			
					40	-3.41	-0.00813	PASS			
					50	-2.54	-0.00707	PASS			
			MCH	VN	-30	-7.2	-0.01262	PASS			
					-20	-2.35	-0.00682	PASS			
					-10	-3.04	-0.00765	PASS			
					0	2.77	-0.0007	PASS			
					10	-4.49	-0.00938	PASS			
					20	9.28	0.00708	PASS			
					30	-4.53	-0.00943	PASS			
					40	-11.88	-0.01821	PASS			
			HCH	VN	-30	3.27	-0.00017	PASS			
					-20	-0.64	-0.00478	PASS			
					-10	-8.89	-0.01452	PASS			
					0	-1.38	-0.00565	PASS			
					10	-9.75	-0.01553	PASS			
					20	-1.75	-0.00609	PASS			
					30	-3.5	-0.00816	PASS			
					40	-2.27	-0.0067	PASS			
			5			LCH	VN	50	9.35	0.00701	PASS
								-30	-1.87	-0.00626	PASS
								-20	1.84	-0.00177	PASS
								-10	-2.91	-0.00752	PASS
								0	2.75	-0.00067	PASS
								10	-9.12	-0.01503	PASS
								20	1.35	-0.00237	PASS
						30	-3.24	-0.00792	PASS		
						40	-8.31	-0.01405	PASS		
						50	3.15	-0.00019	PASS		
						MCH	VN	-30	-5.73	-0.01086	PASS
								-20	2.81	-0.00065	PASS
								-10	-7.59	-0.01309	PASS
								0	6.69	0.00399	PASS
			10	-7.91	-0.01347			PASS			
			20	-1.25	-0.00551			PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-4.54	-0.00944	PASS		
					40	-5.23	-0.01026	PASS		
					50	-1.84	-0.00621	PASS		
			HCH	VN	-30	-0.32	-0.0044	PASS		
					-20	2.01	-0.00165	PASS		
					-10	-11.64	-0.01778	PASS		
					0	15.71	0.01453	PASS		
					10	9.05	0.00667	PASS		
					20	-0.19	-0.00425	PASS		
					30	0.81	-0.00307	PASS		
					40	4.07	0.00078	PASS		
					50	-1.15	-0.00538	PASS		
					LCH	VN	-30	2.08	-0.00149	PASS
							-20	-2.27	-0.00674	PASS
							-10	-1.6	-0.00593	PASS
		0	-4.54	-0.00948			PASS			
		10	-0.19	-0.00423			PASS			
		20	-15.37	-0.02254			PASS			
		30	-13.91	-0.02078			PASS			
		40	-7.26	-0.01276			PASS			
		50	-5.5	-0.01064			PASS			
		MCH	VN	-30	-1.38	-0.00566	PASS			
				-20	117.02	0.13588	PASS			
				-10	124.35	0.14464	PASS			
				0	100.81	0.1165	PASS			
				10	224.15	0.26395	PASS			
				20	61.35	0.06933	PASS			
				30	157.48	0.18425	PASS			
				40	175.26	0.2055	PASS			
				50	60.37	0.06816	PASS			
		HCH	VN	-30	-1.67	-0.006	PASS			
				-20	-1.9	-0.00627	PASS			
				-10	-2.08	-0.00649	PASS			
				0	-1.2	-0.00544	PASS			
				10	-0.85	-0.00503	PASS			
				20	-1.38	-0.00566	PASS			
				30	0.13	-0.00387	PASS			
				40	-6.72	-0.01198	PASS			
				50	1.49	-0.00226	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	-30	-7.32	-0.01287	PASS
					-20	1.99	-0.00158	PASS
					-10	14.1	0.0131	PASS
					0	11.11	0.00947	PASS
					10	-6.2	-0.01151	PASS
					20	-10.09	-0.01623	PASS
					30	-1.98	-0.0064	PASS
					40	11.46	0.0099	PASS
					50	19.17	0.01925	PASS
			MCH	VN	-30	-12.7	-0.01919	PASS
					-20	-14.07	-0.02083	PASS
					-10	-8.58	-0.01427	PASS
					0	2.92	-0.00052	PASS
					10	-8.58	-0.01427	PASS
					20	-5.34	-0.0104	PASS
					30	4.54	0.00142	PASS
					40	3.9	0.00065	PASS
					50	-1.42	-0.00571	PASS
			HCH	VN	-30	6.74	0.00392	PASS
					-20	-9.32	-0.01501	PASS
					-10	-16.65	-0.02365	PASS
					0	1.19	-0.00262	PASS
					10	1.18	-0.00264	PASS
					20	7.97	0.00537	PASS
		30			-3.06	-0.00763	PASS	
		40			6.89	0.00409	PASS	
		50			-7.78	-0.0132	PASS	
		3	LCH	VN	-30	13.55	0.01242	PASS
					-20	-14.41	-0.02145	PASS
					-10	25.31	0.02666	PASS
					0	7.92	0.0056	PASS
					10	2.67	-0.00076	PASS
					20	-4.06	-0.00892	PASS
					30	44.69	0.05014	PASS
					40	-7.95	-0.01363	PASS
					50	-2.17	-0.00663	PASS
			MCH	VN	-30	7.53	0.00499	PASS
					-20	0.51	-0.0034	PASS
					-10	0.46	-0.00346	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-3.44	-0.00812	PASS
					10	5.3	0.00232	PASS
					20	-7.18	-0.0126	PASS
					30	3.8	0.00053	PASS
					40	5.91	0.00305	PASS
					50	-10.31	-0.01634	PASS
			HCH	VN	-30	-1.71	-0.00604	PASS
					-20	-4.76	-0.00964	PASS
					-10	-1.31	-0.00557	PASS
					0	-0.94	-0.00514	PASS
					10	-0.21	-0.00427	PASS
					20	-5.62	-0.01066	PASS
					30	-2.1	-0.0065	PASS
					40	-1.37	-0.00564	PASS
					50	-2.87	-0.00741	PASS
		5	LCH	VN	-30	11.24	0.0096	PASS
					-20	4.48	0.00142	PASS
					-10	7.13	0.00463	PASS
					0	2.51	-0.00096	PASS
					10	-1.07	-0.00529	PASS
					20	1.98	-0.0016	PASS
					30	0.09	-0.00389	PASS
					40	-0.12	-0.00414	PASS
					50	2.04	-0.00153	PASS
			MCH	VN	-30	-3.9	-0.00867	PASS
					-20	5.28	0.0023	PASS
					-10	0.05	-0.00395	PASS
					0	-0.42	-0.00451	PASS
					10	1.02	-0.00279	PASS
					20	2.34	-0.00121	PASS
		30			7.92	0.00546	PASS	
		40	-6.32	-0.01157	PASS			
		50	0.25	-0.00371	PASS			
		HCH	VN	-30	-0.65	-0.00479	PASS	
				-20	-0.05	-0.00408	PASS	
				-10	2.42	-0.00117	PASS	
				0	-1.44	-0.00573	PASS	
				10	-0.87	-0.00505	PASS	
				20	-0.75	-0.00491	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					30	-1.83	-0.00619	PASS			
					40	0.59	-0.00333	PASS			
					50	-9.19	-0.01488	PASS			
					10	LCH	VN	-30	-6.65	-0.01202	PASS
								-20	-5.09	-0.01014	PASS
								-10	10.16	0.00825	PASS
		0	9.56	0.00753				PASS			
		10	-3.99	-0.00882				PASS			
		20	-3.94	-0.00876				PASS			
		30	-7.45	-0.01299				PASS			
		40	-0.09	-0.00411				PASS			
		50	-9.16	-0.01505				PASS			
		10	MCH	VN				-30	-111.55	-0.13737	PASS
					-20	-55.15	-0.06994	PASS			
					-10	-9.74	-0.01566	PASS			
					0	-7.43	-0.01289	PASS			
					10	21.82	0.02207	PASS			
					20	-11.38	-0.01762	PASS			
					30	47.91	0.05326	PASS			
					40	39.5	0.04321	PASS			
		10	HCH	VN	-30	0.39	-0.00356	PASS			
					-20	-0.78	-0.00495	PASS			
					-10	-0.51	-0.00463	PASS			
					0	0.25	-0.00373	PASS			
					10	-1.6	-0.00592	PASS			
					20	-0.67	-0.00482	PASS			
					30	-1.22	-0.00547	PASS			
					40	1.28	-0.00251	PASS			
		50	-1.2	-0.00544	PASS						

END