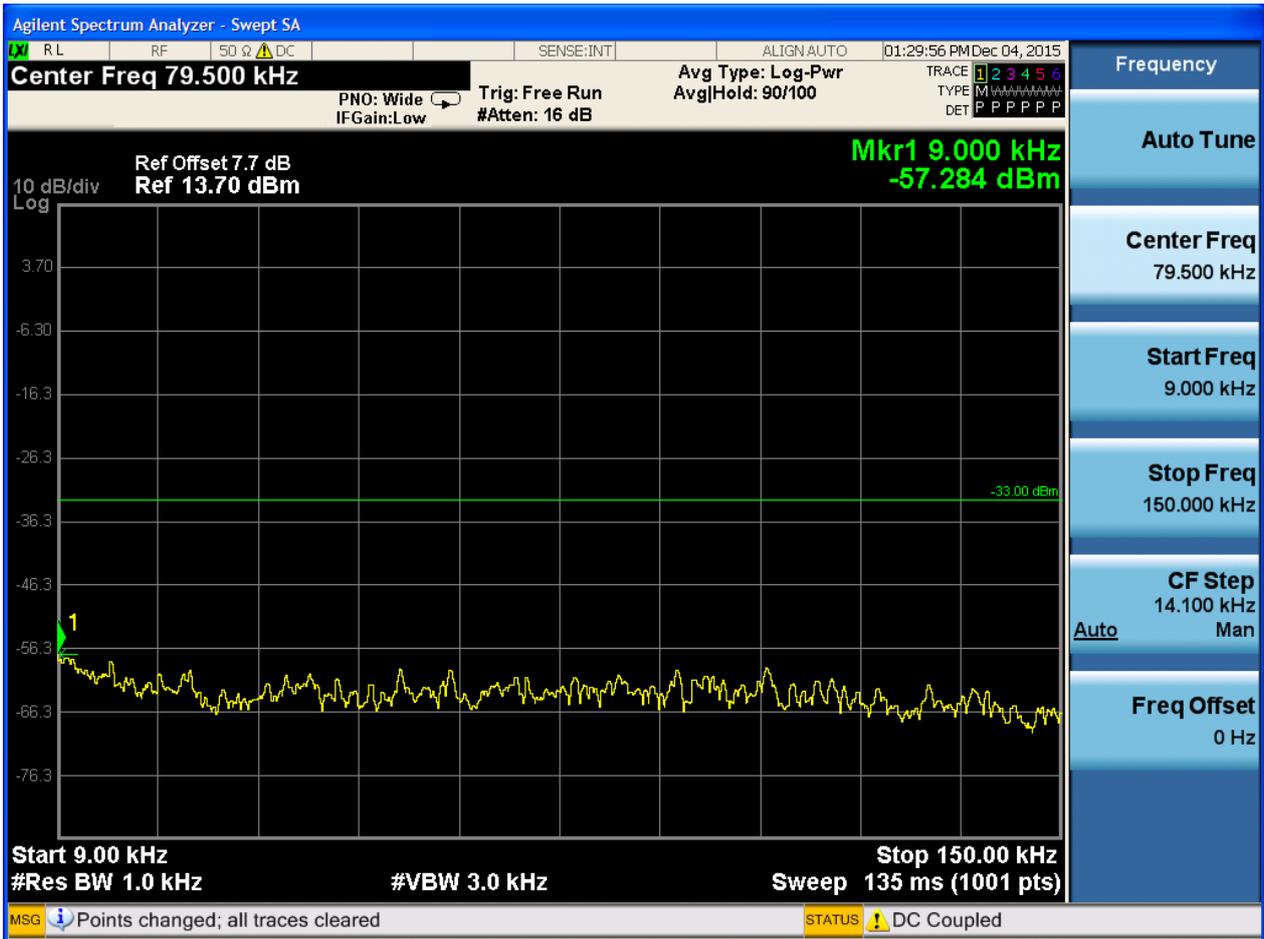


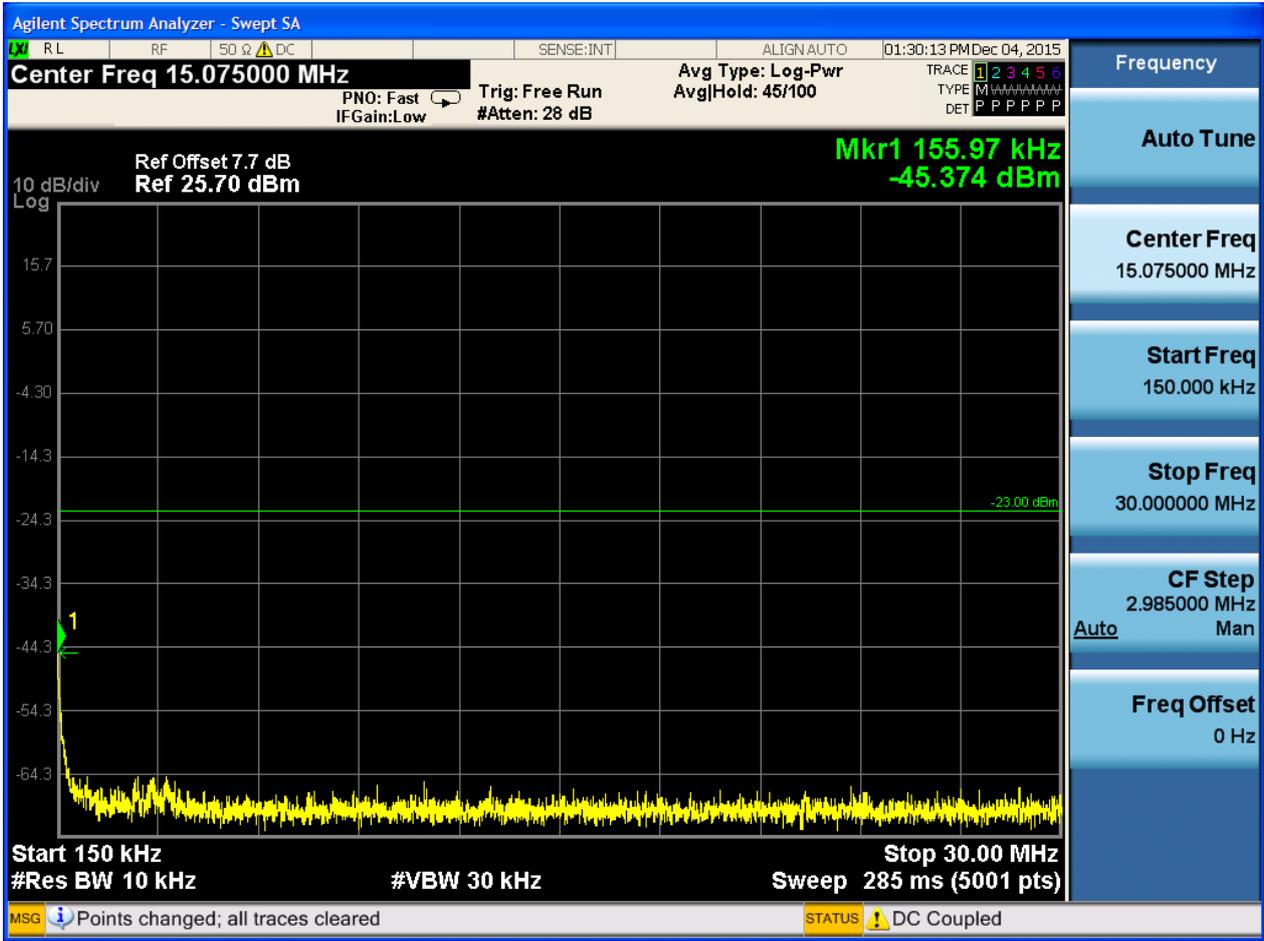


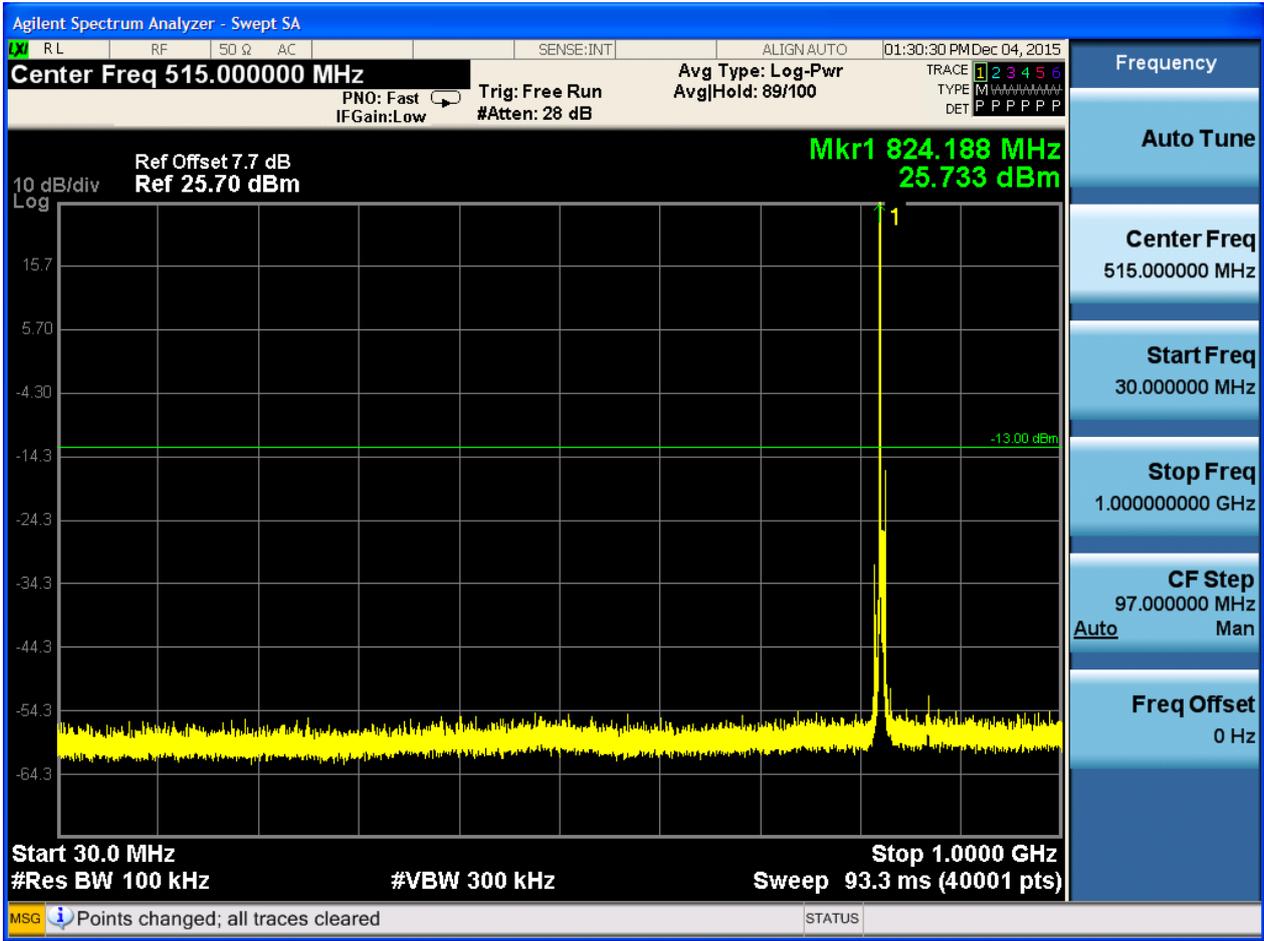
6.1.1.1.2 Test Bandwidth = 3

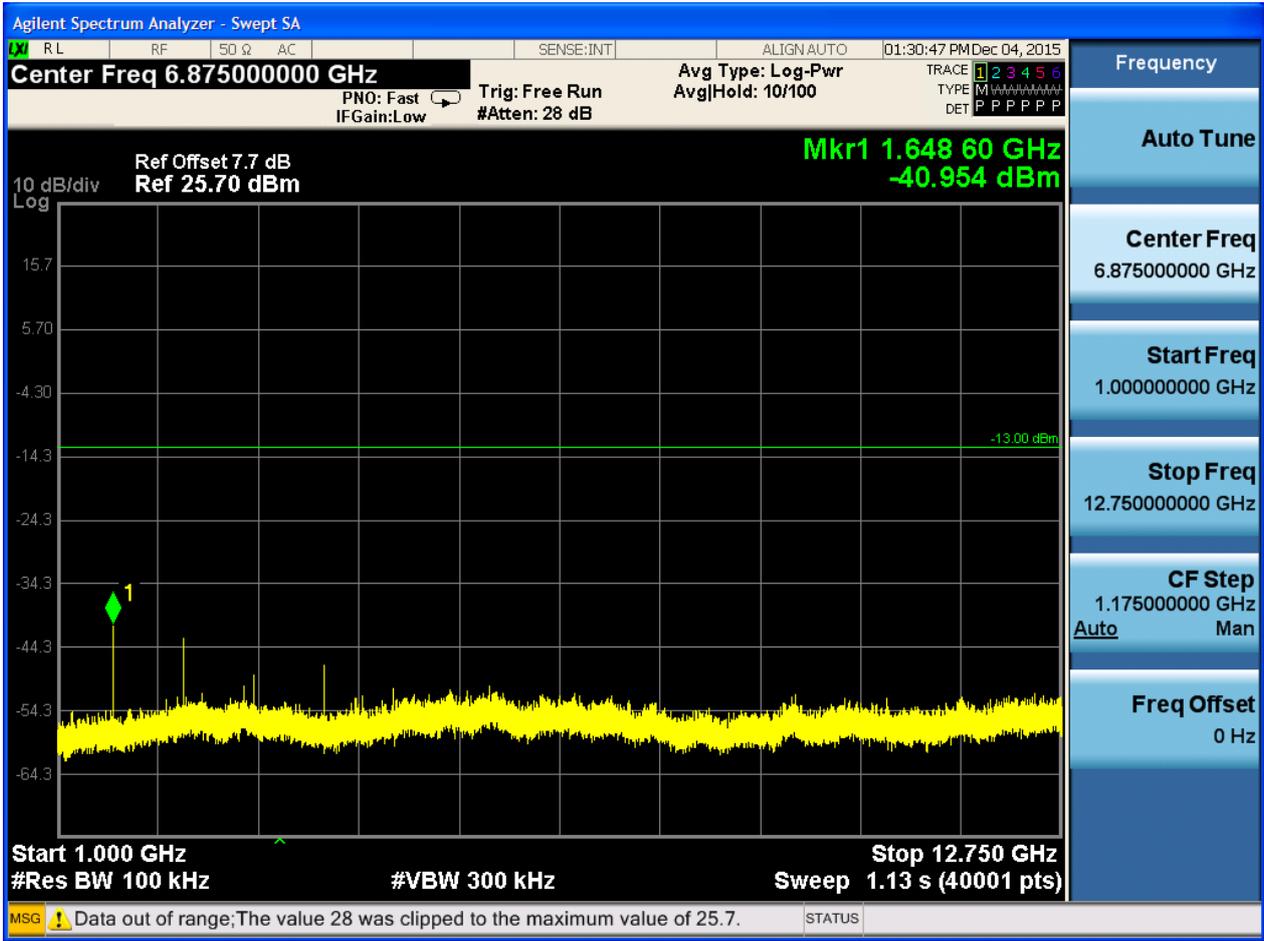
6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0





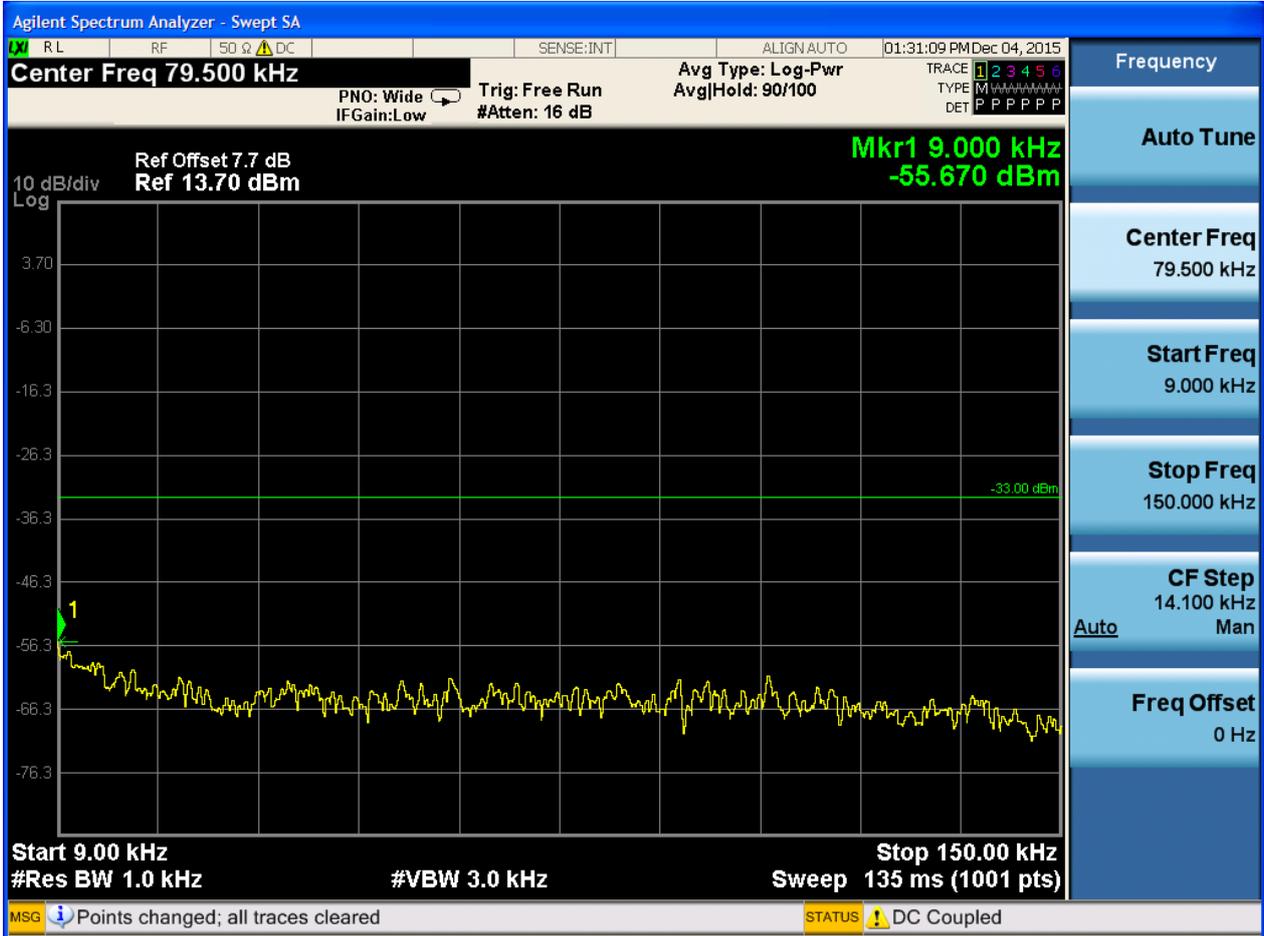




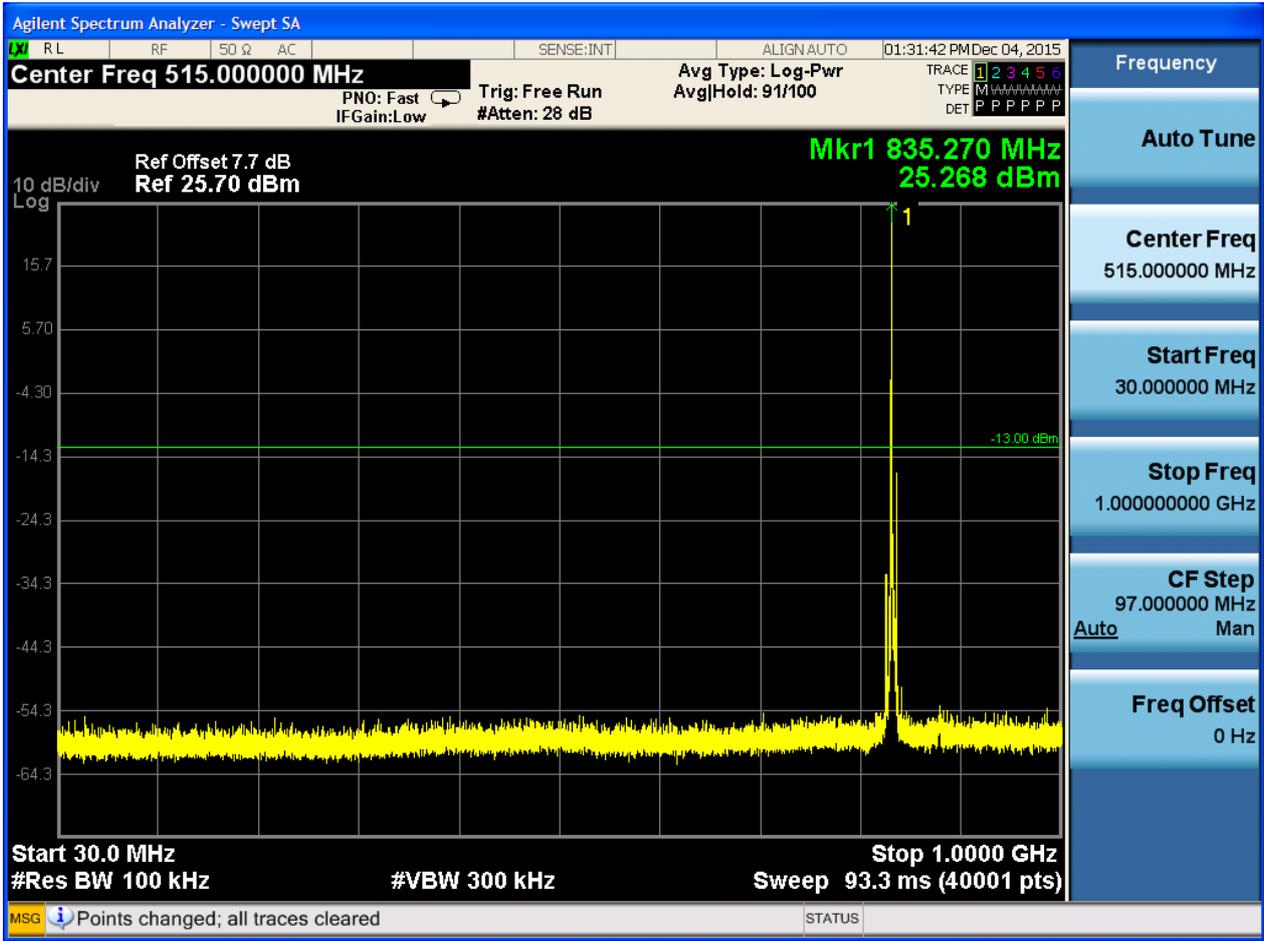


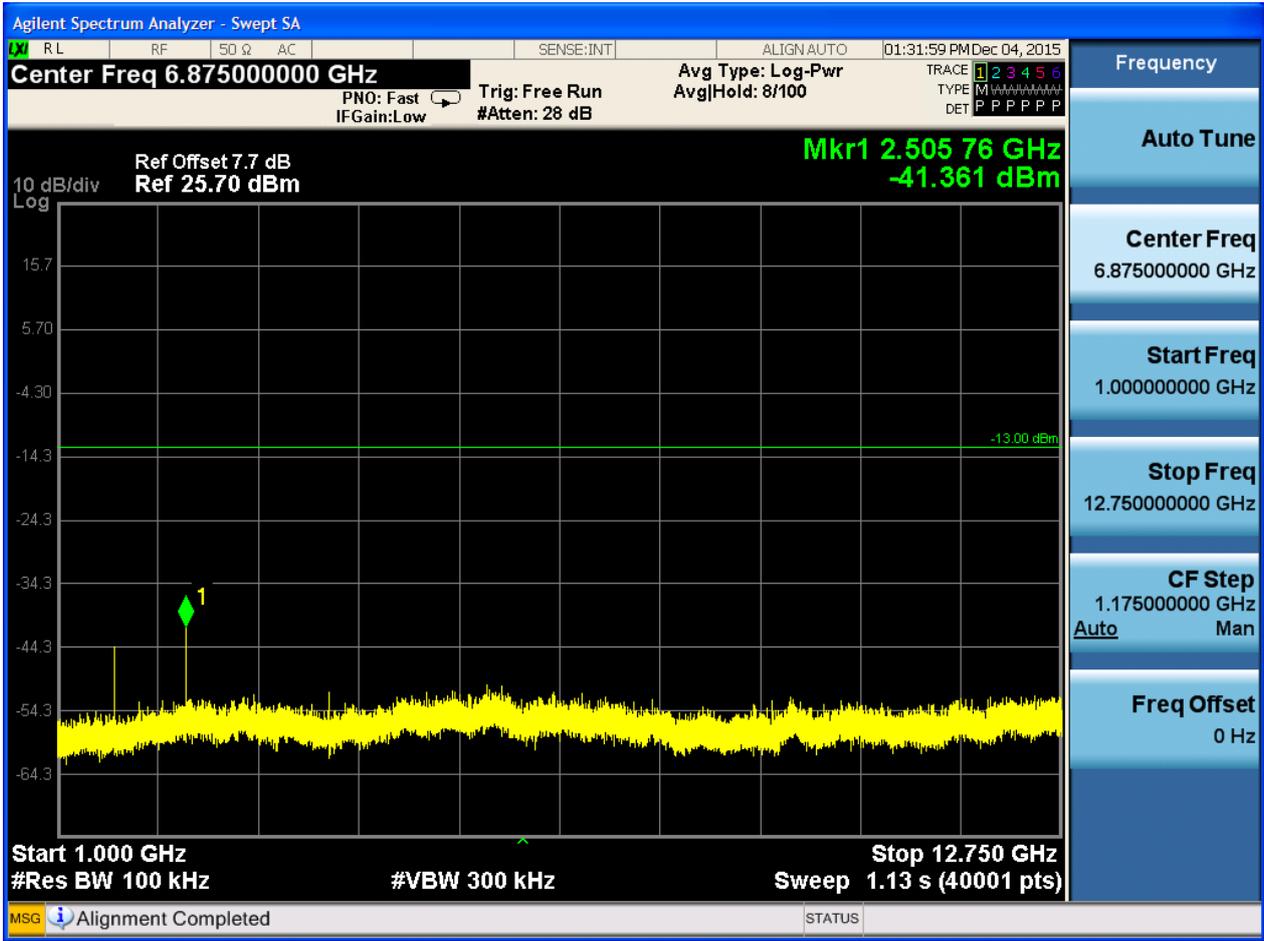
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

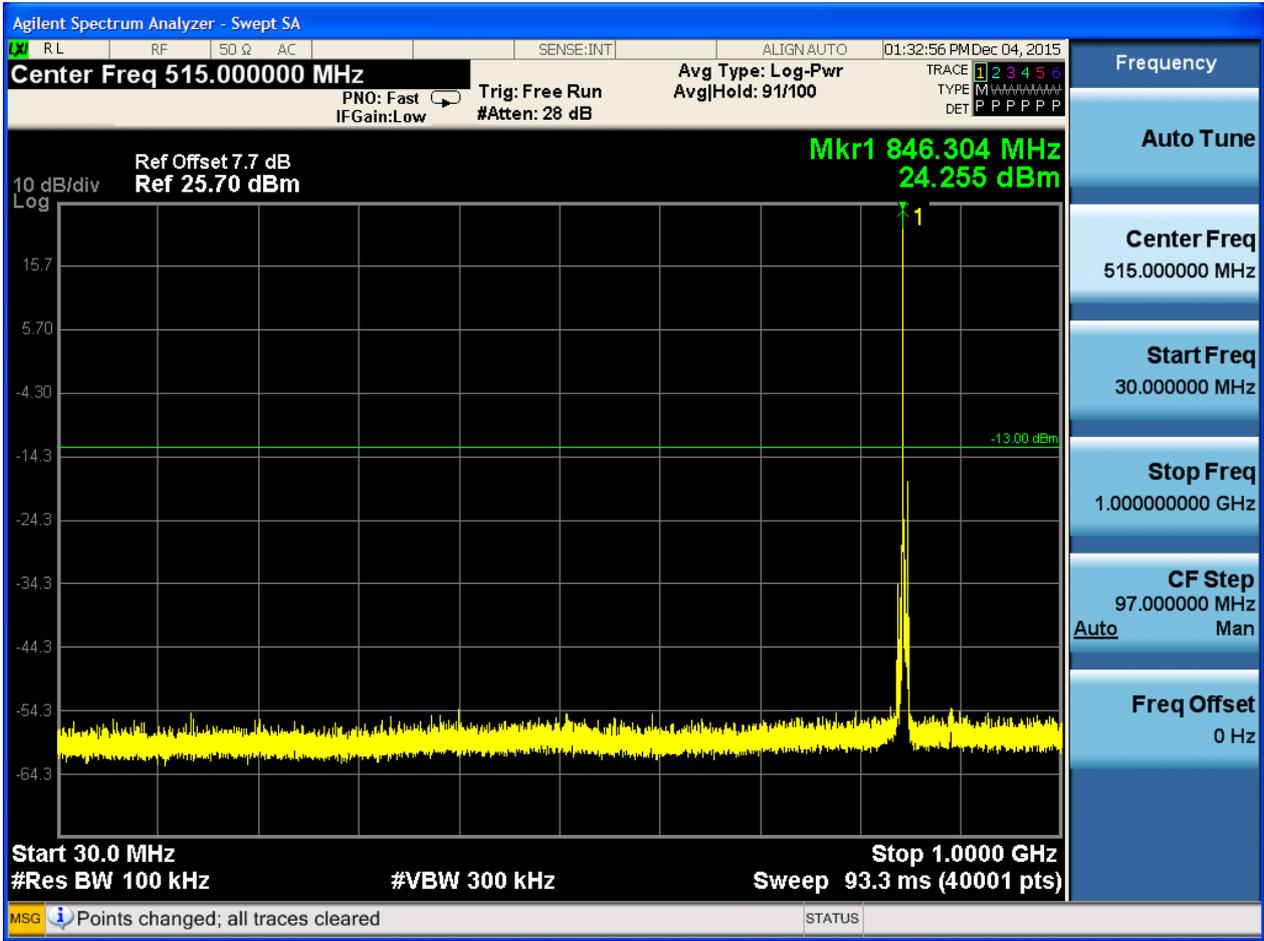


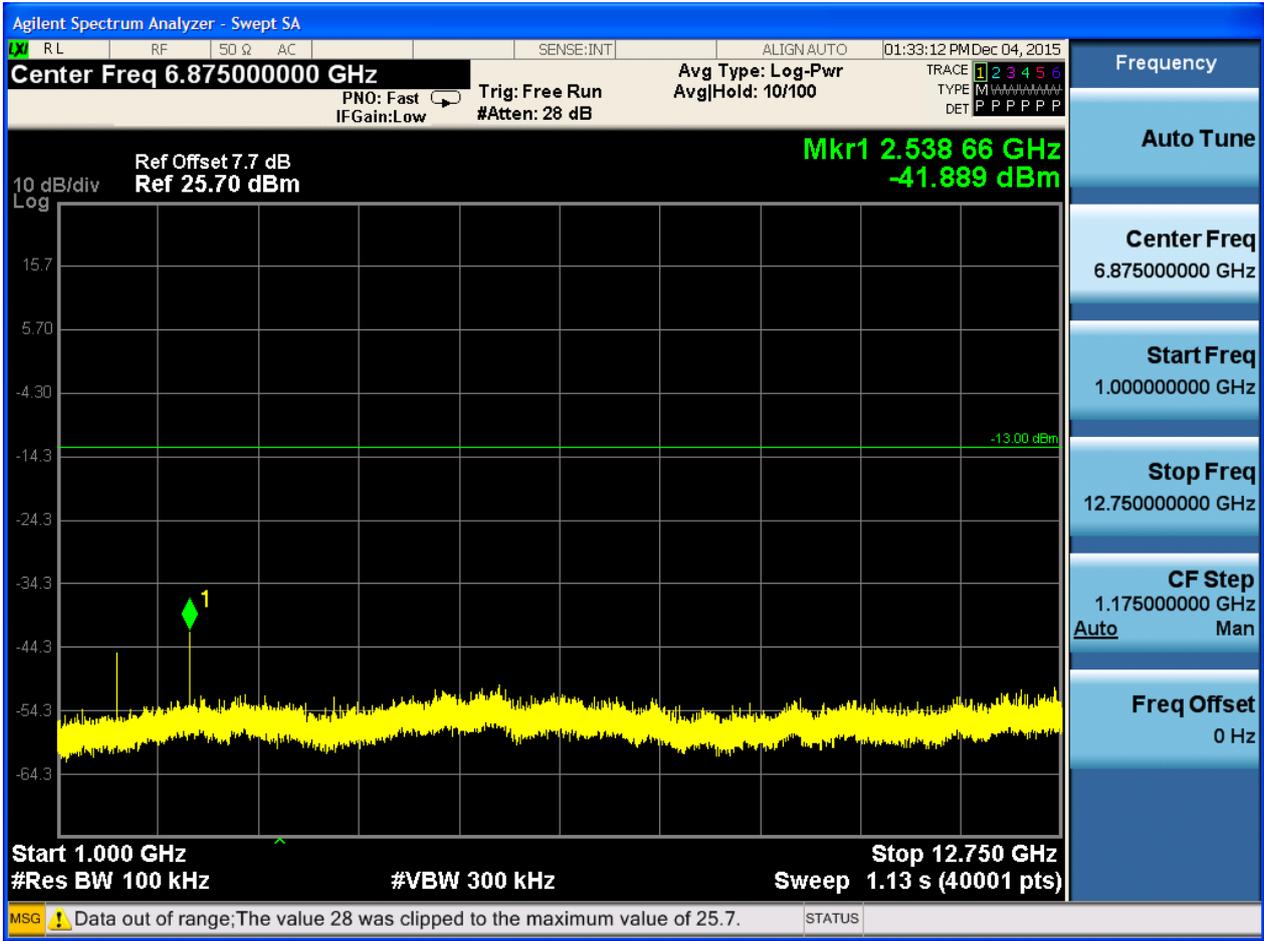










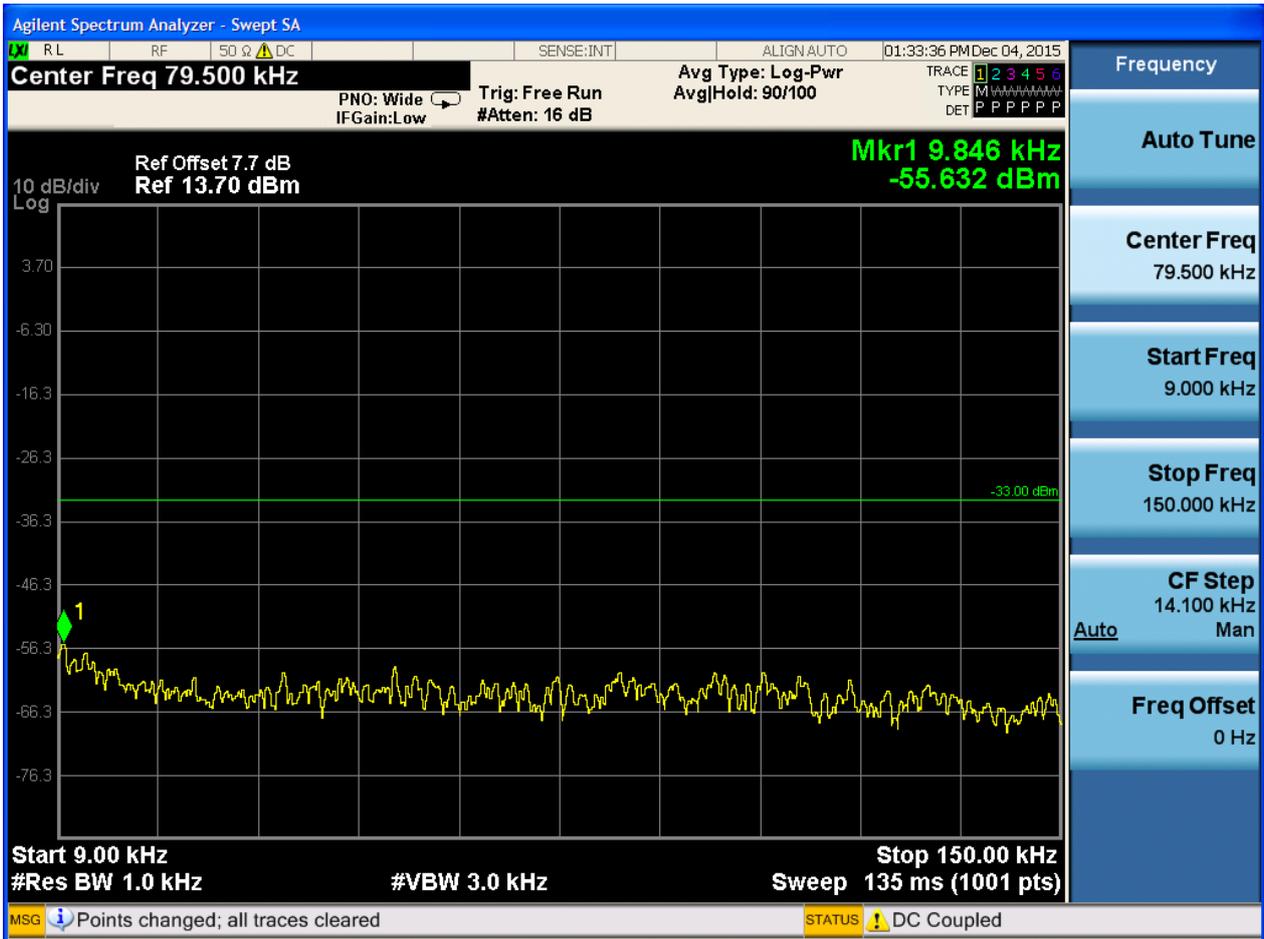


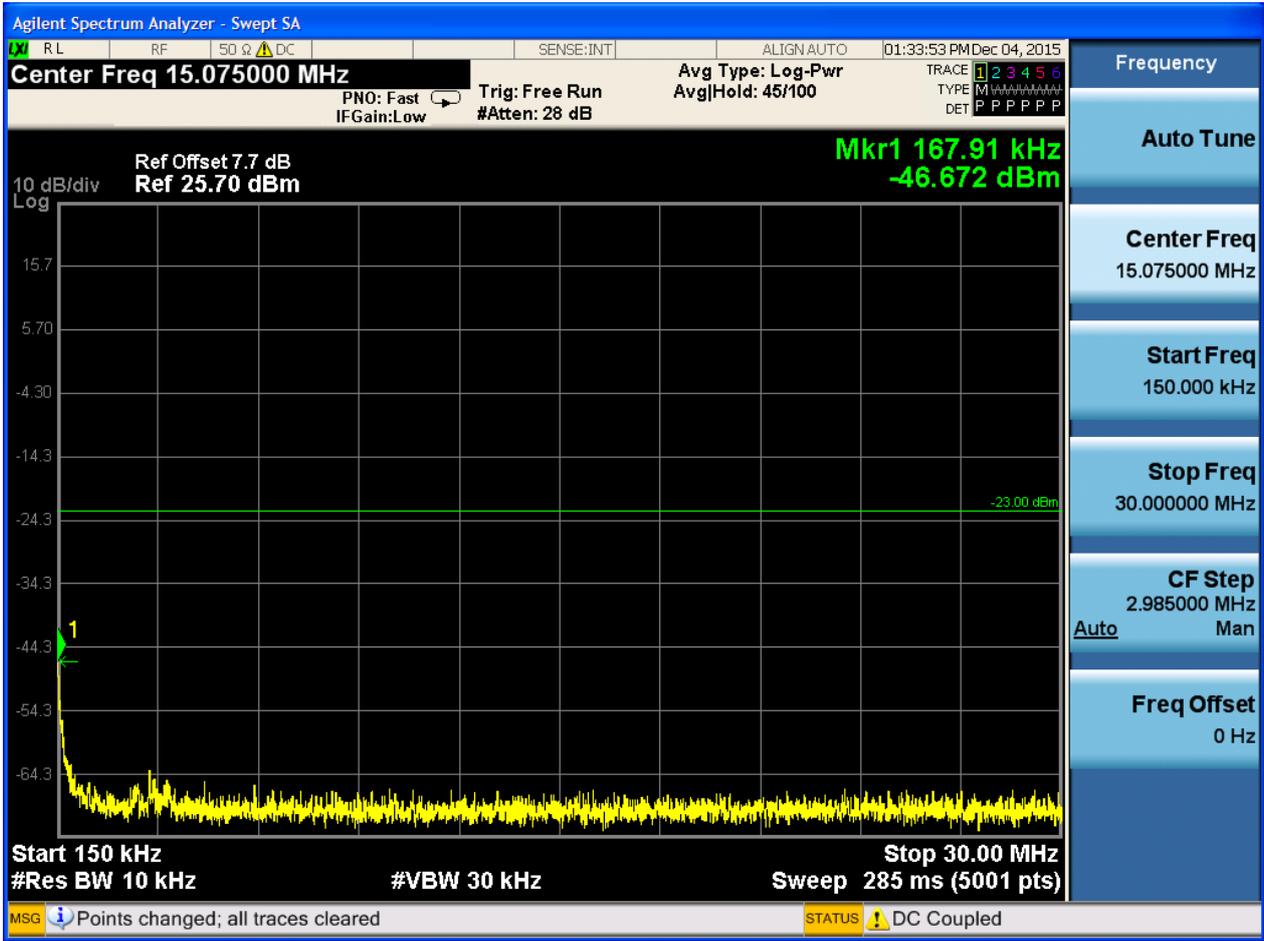


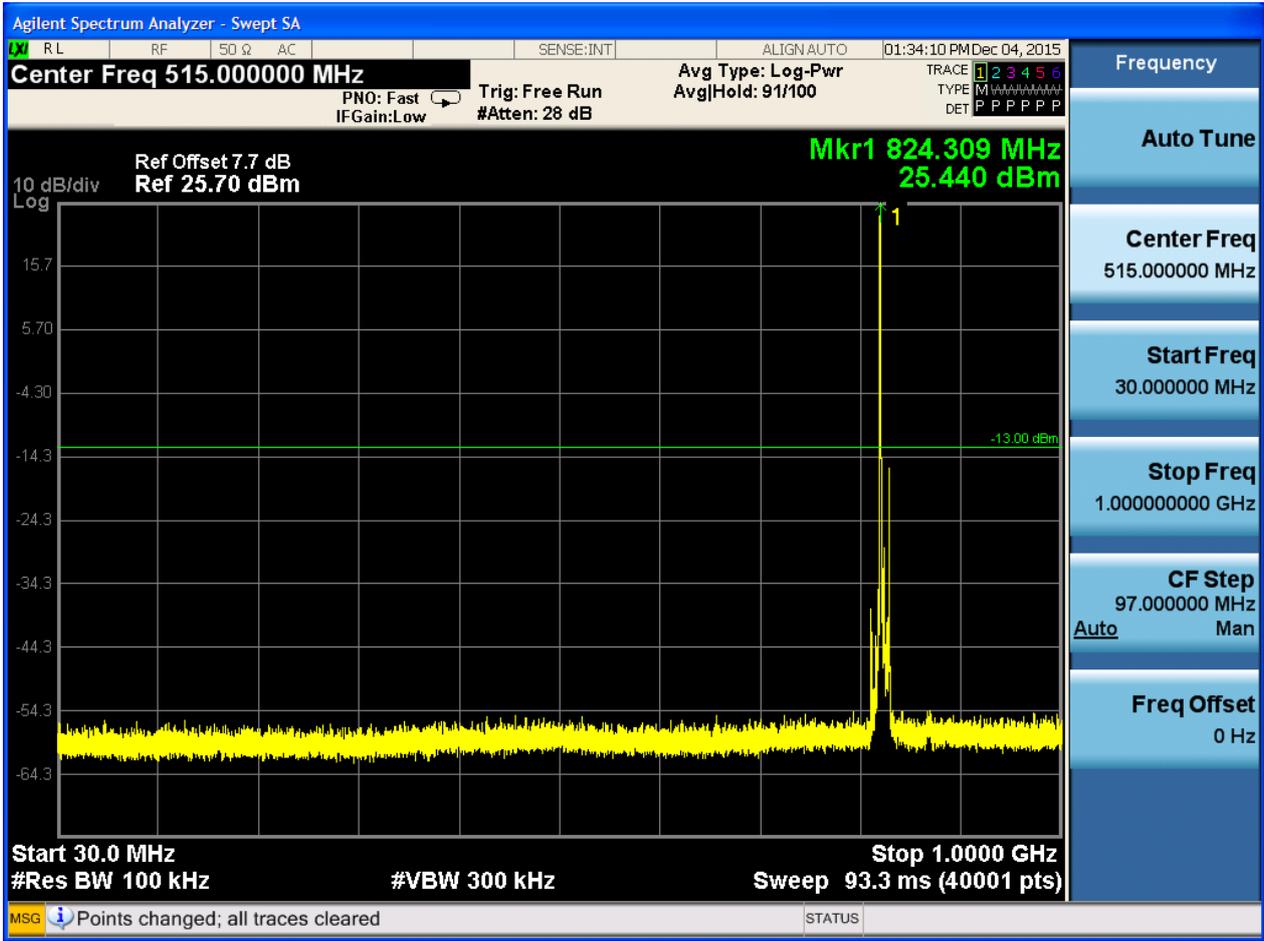
6.1.1.1.3 Test Bandwidth = 5

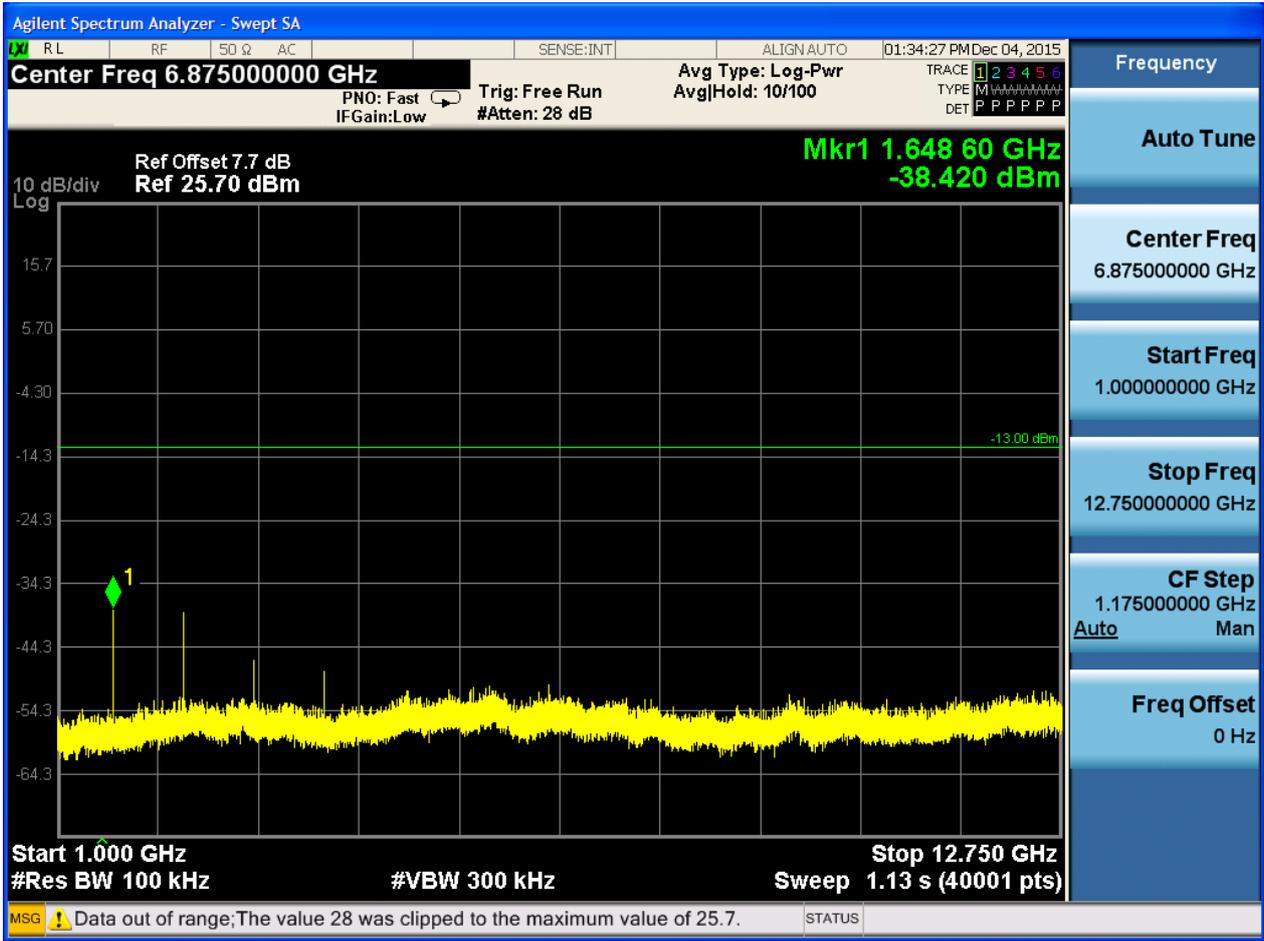
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





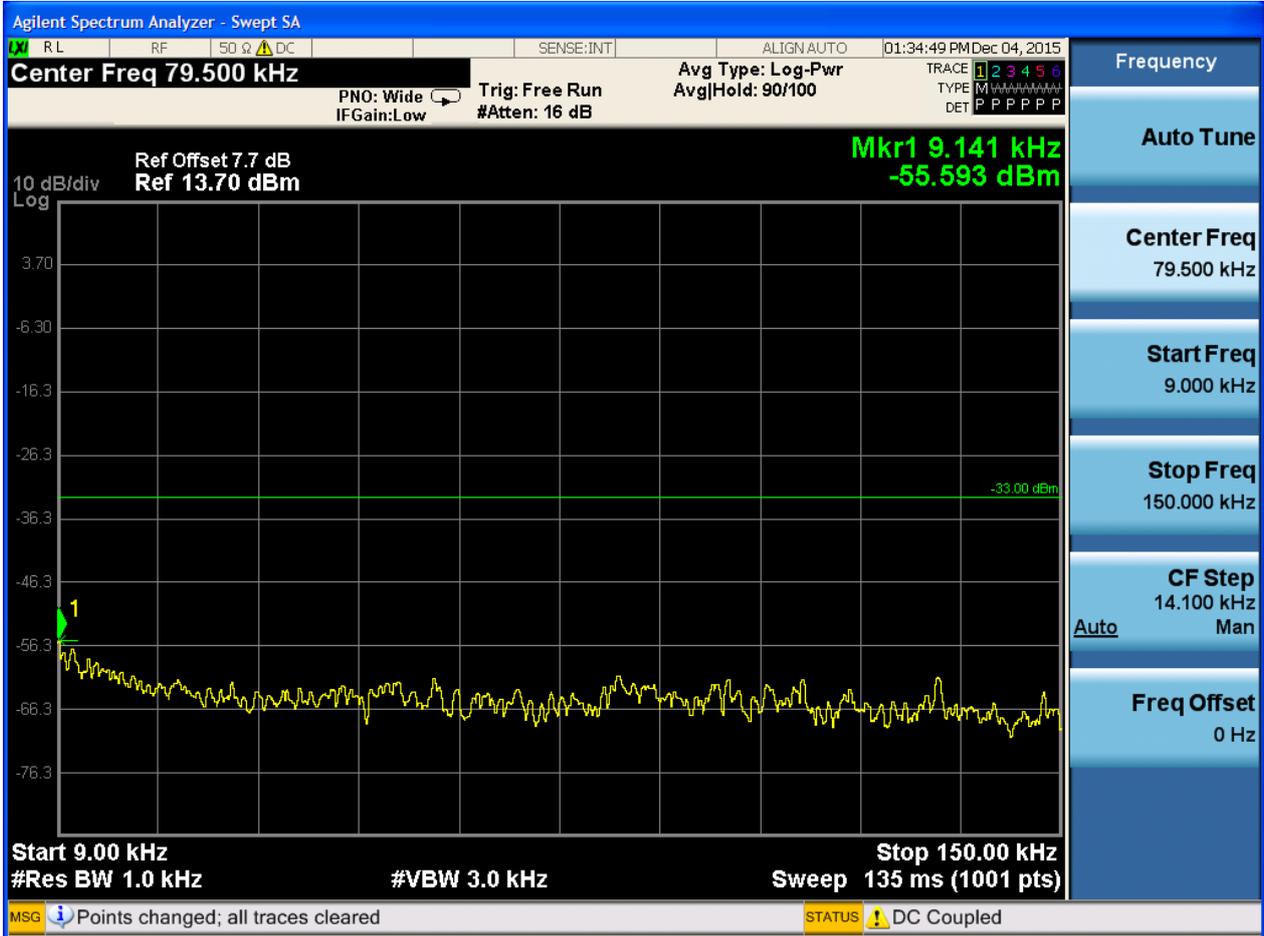




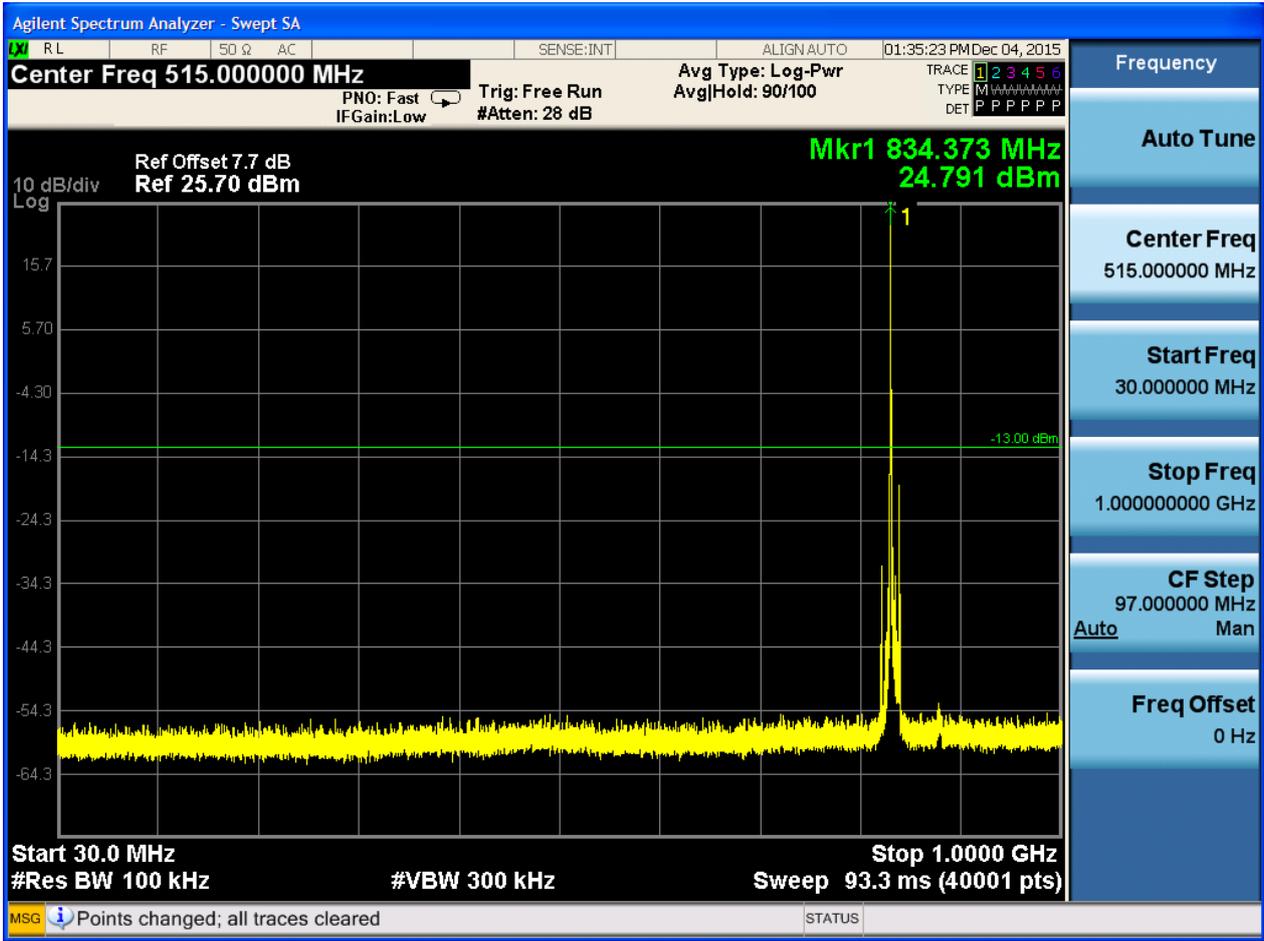


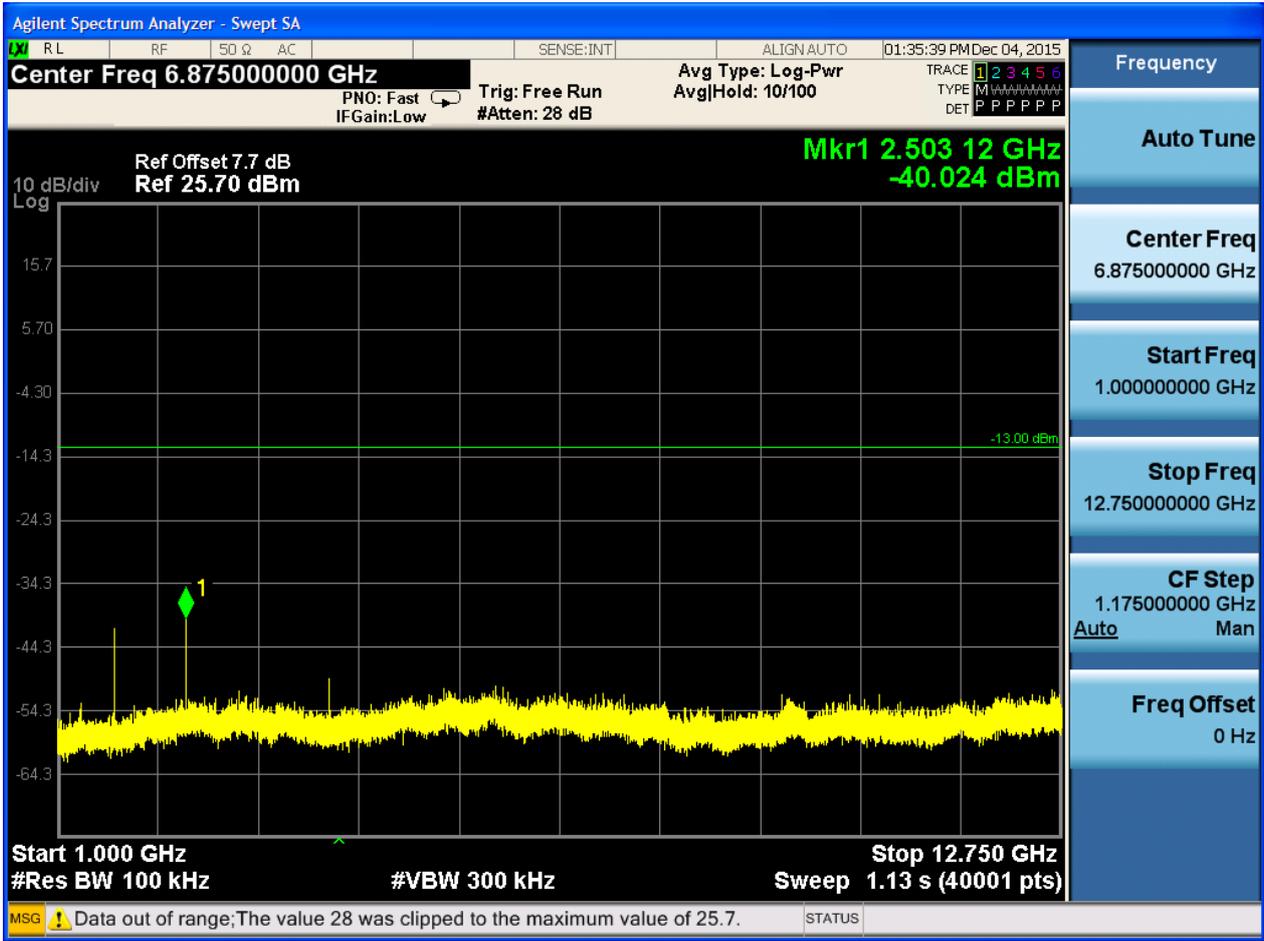
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





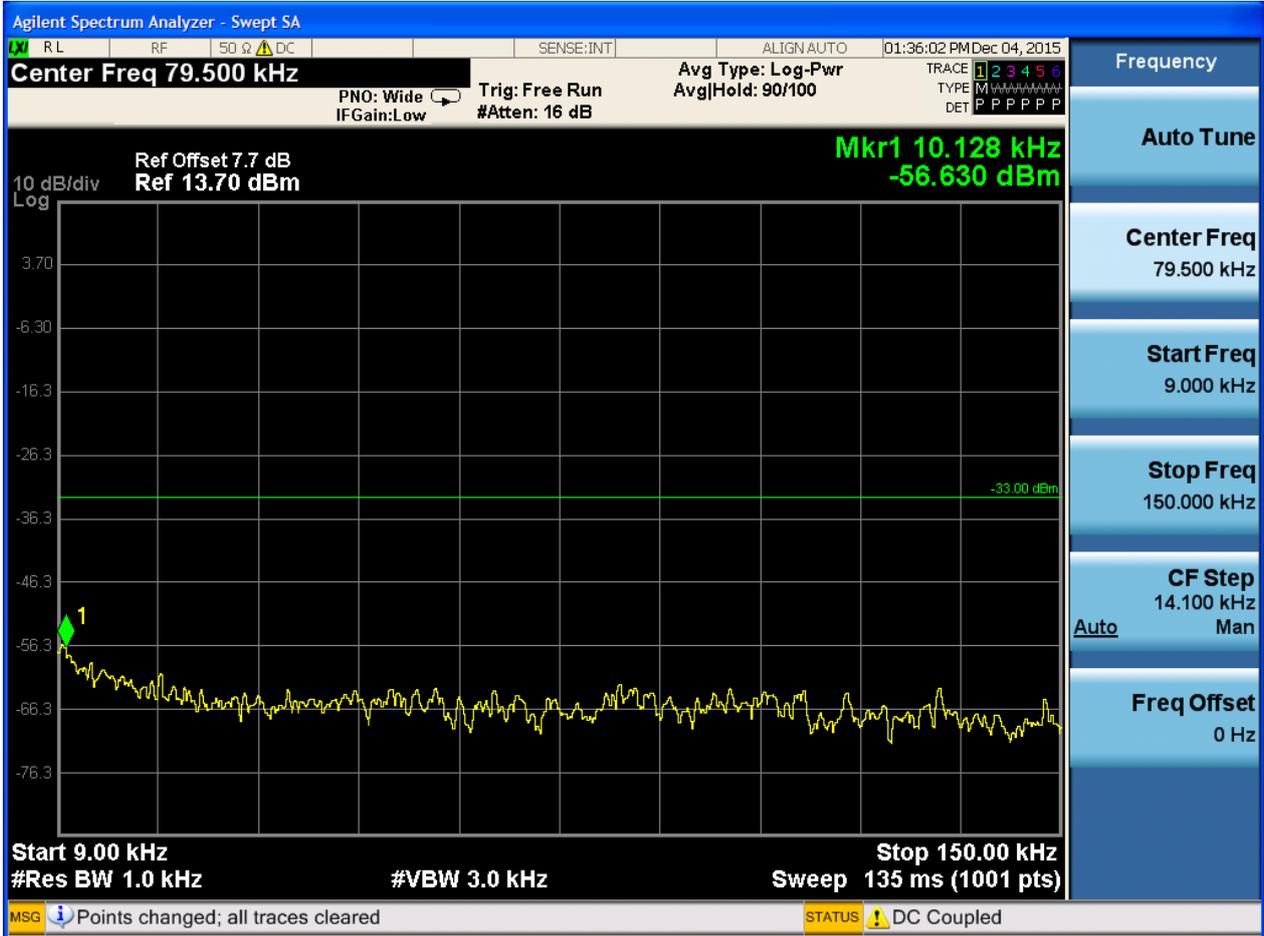


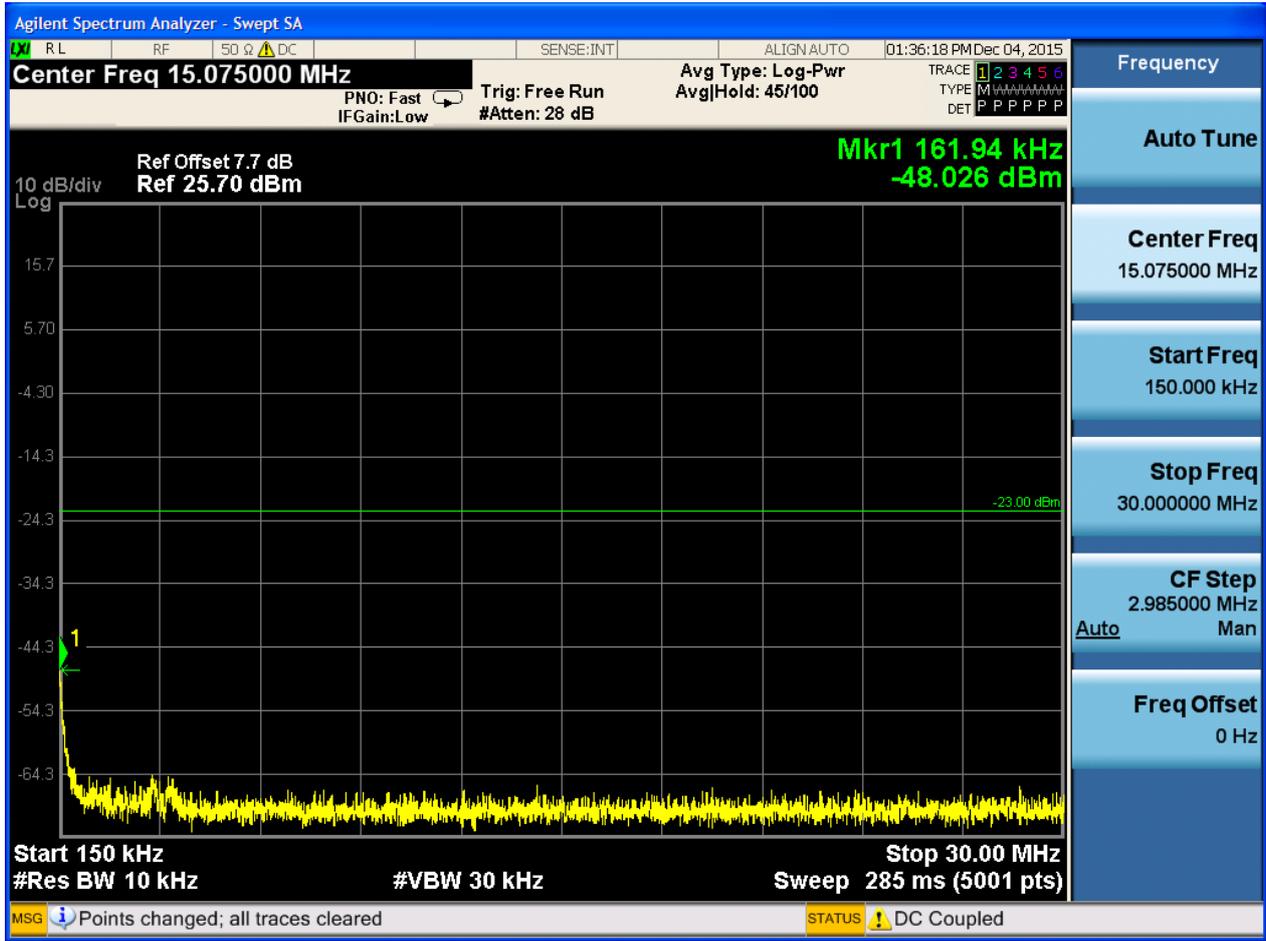


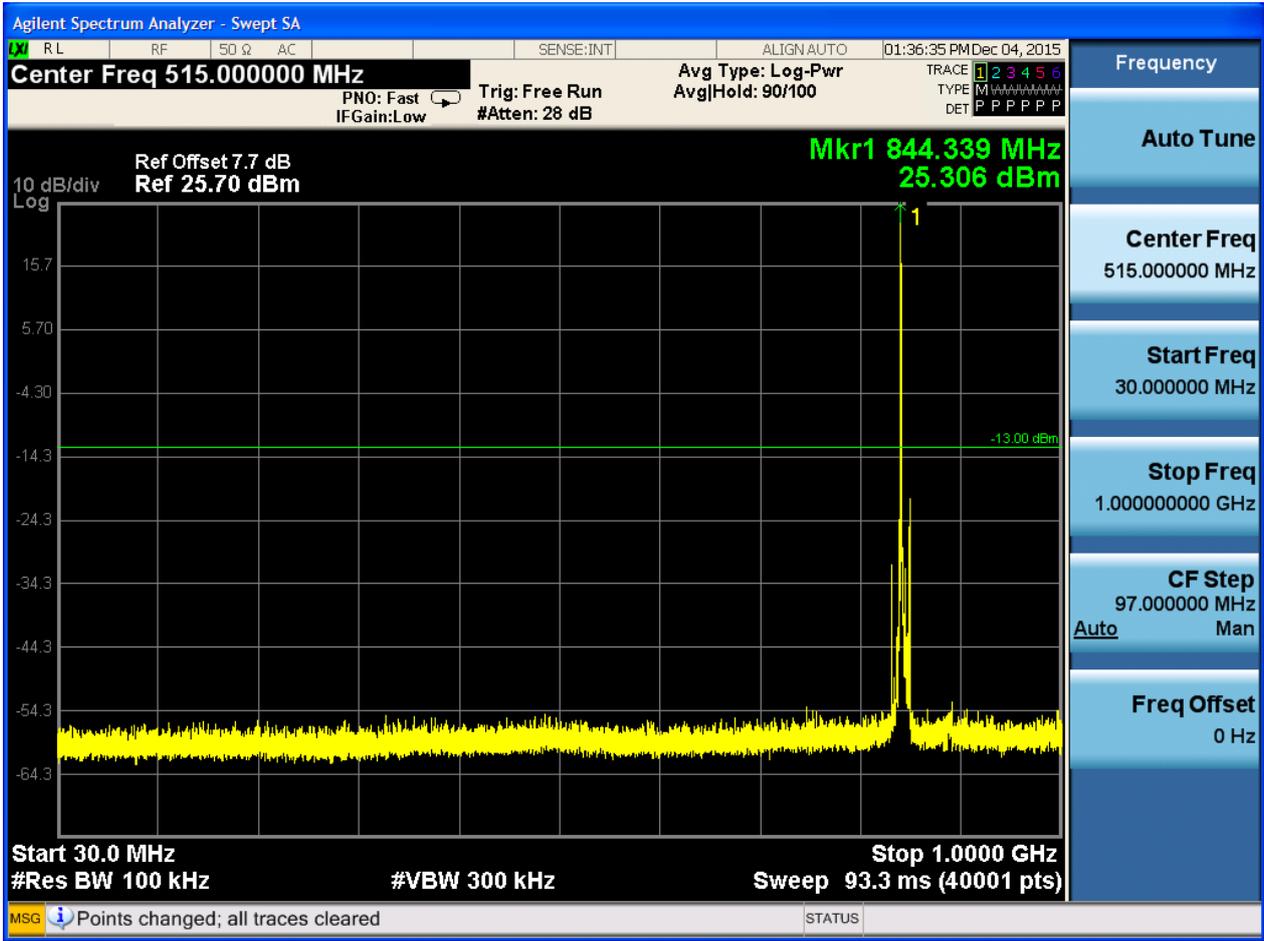


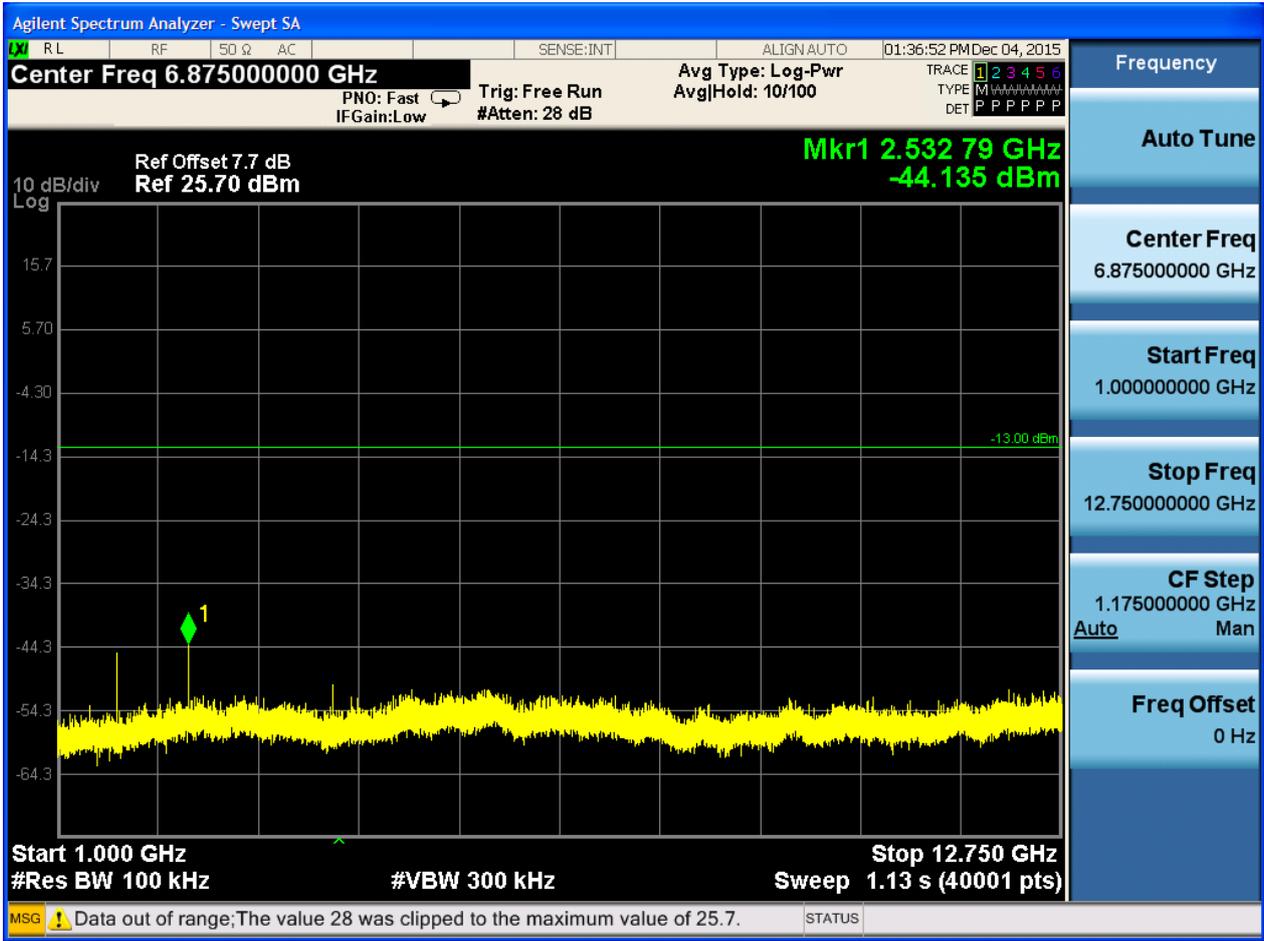
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







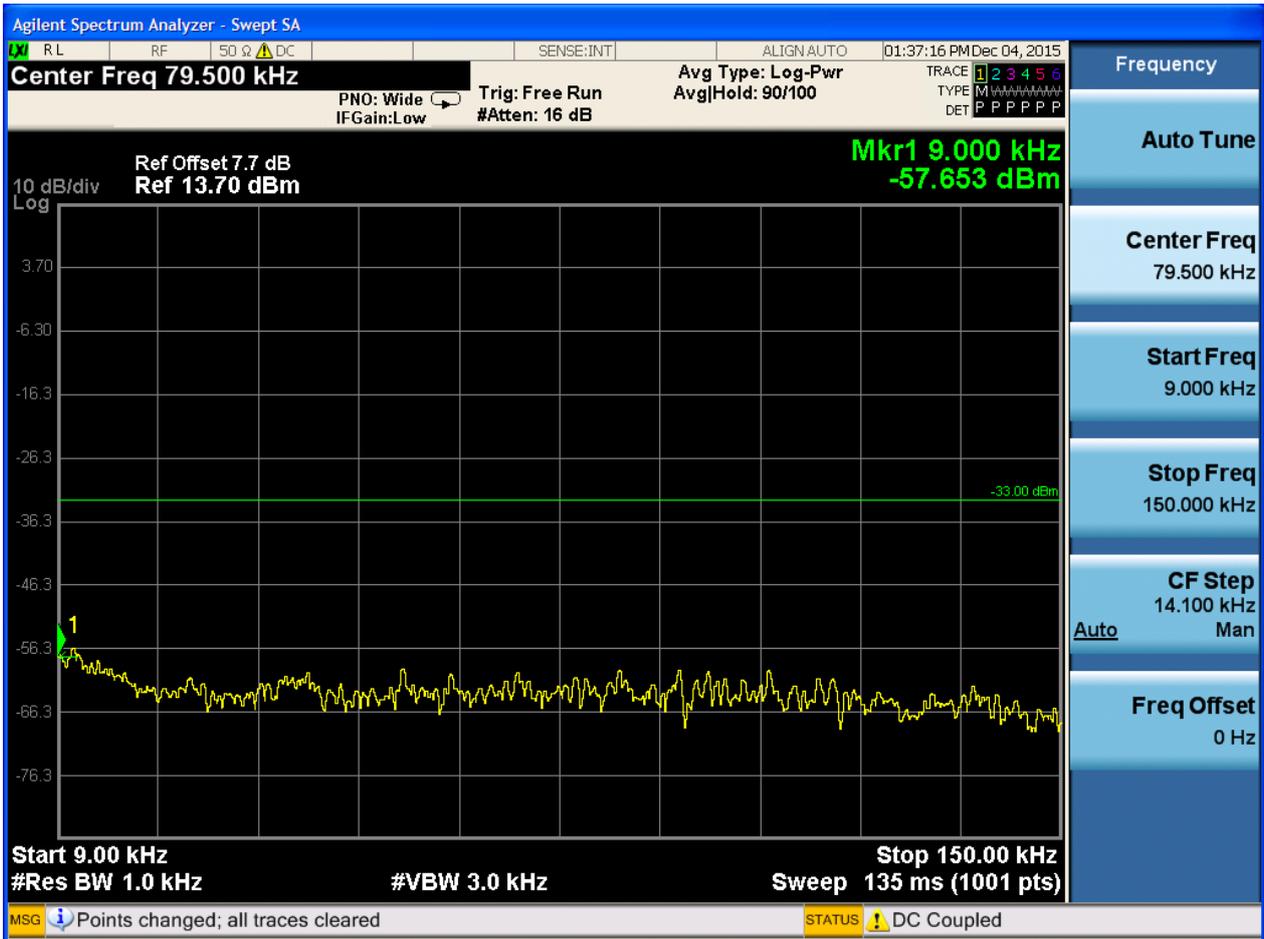


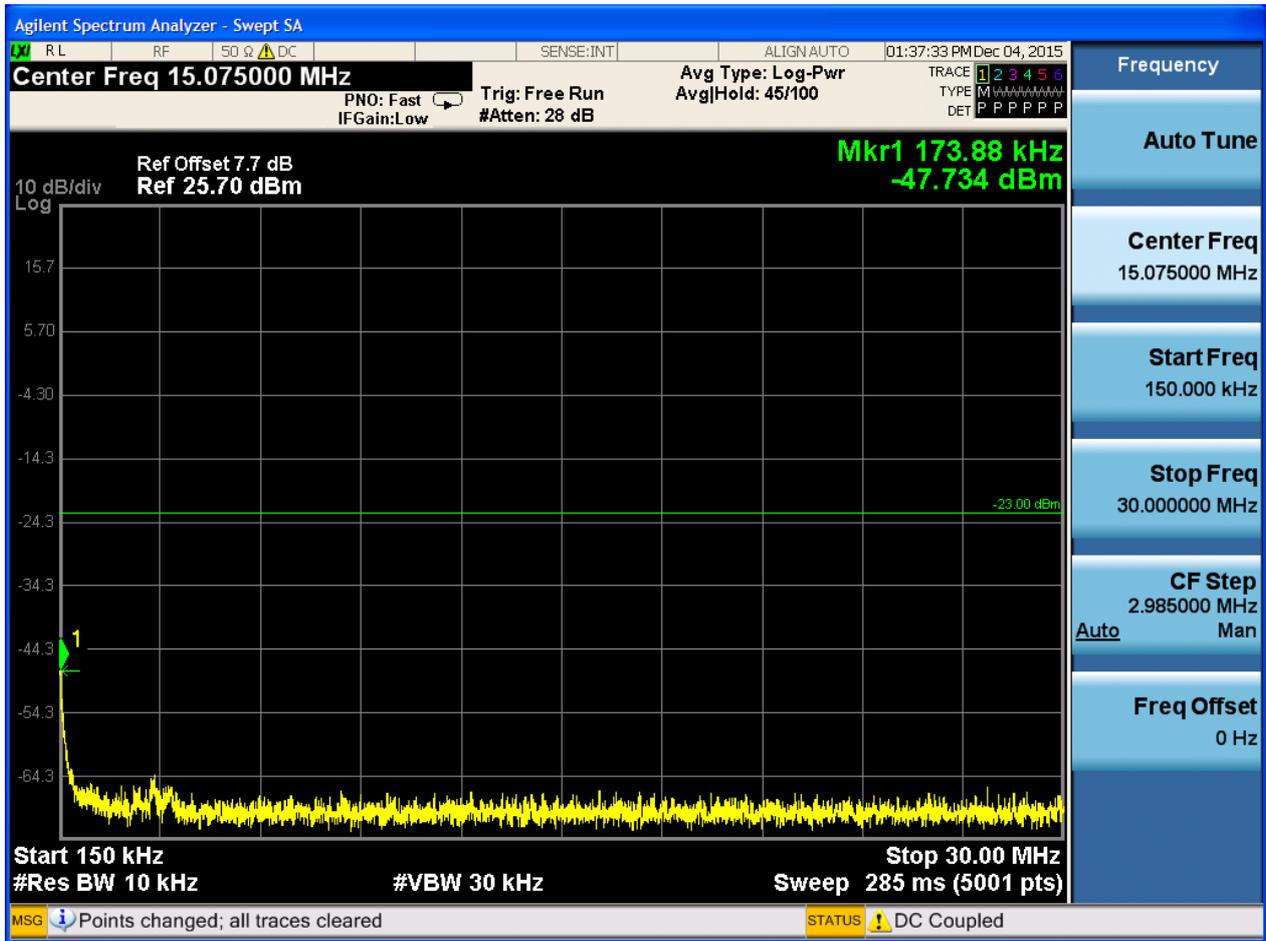


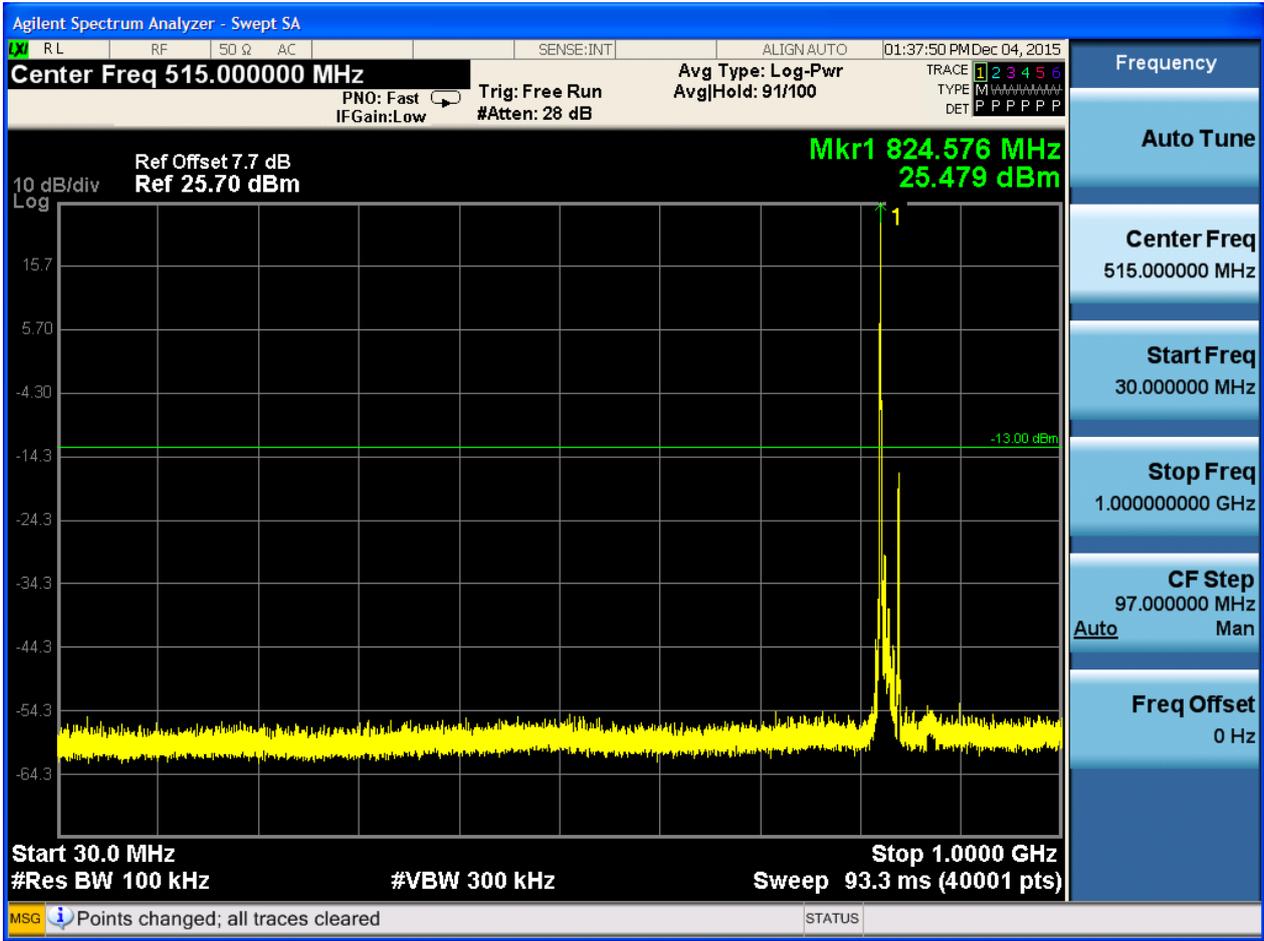
6.1.1.1.4 Test Bandwidth = 10

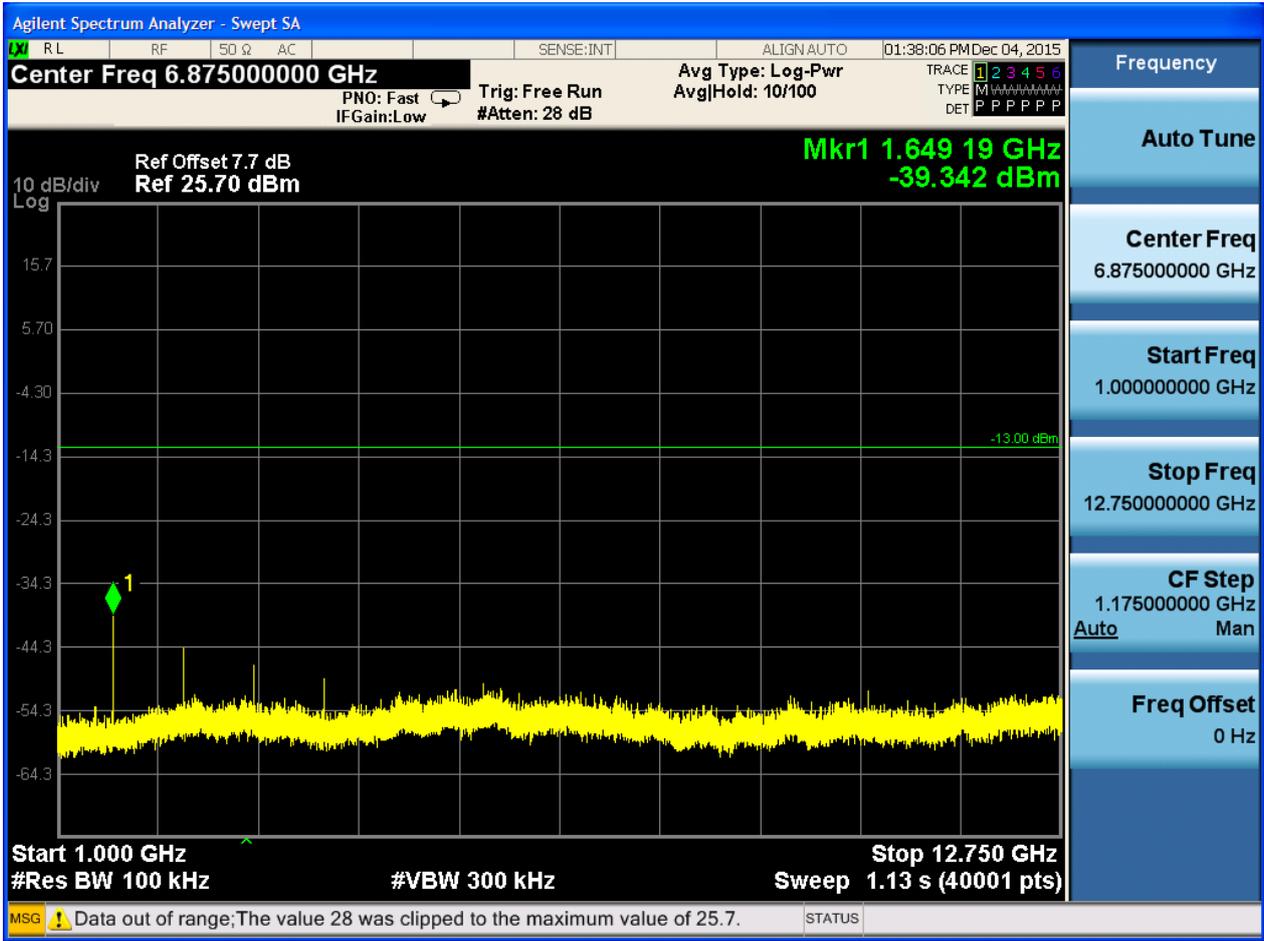
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





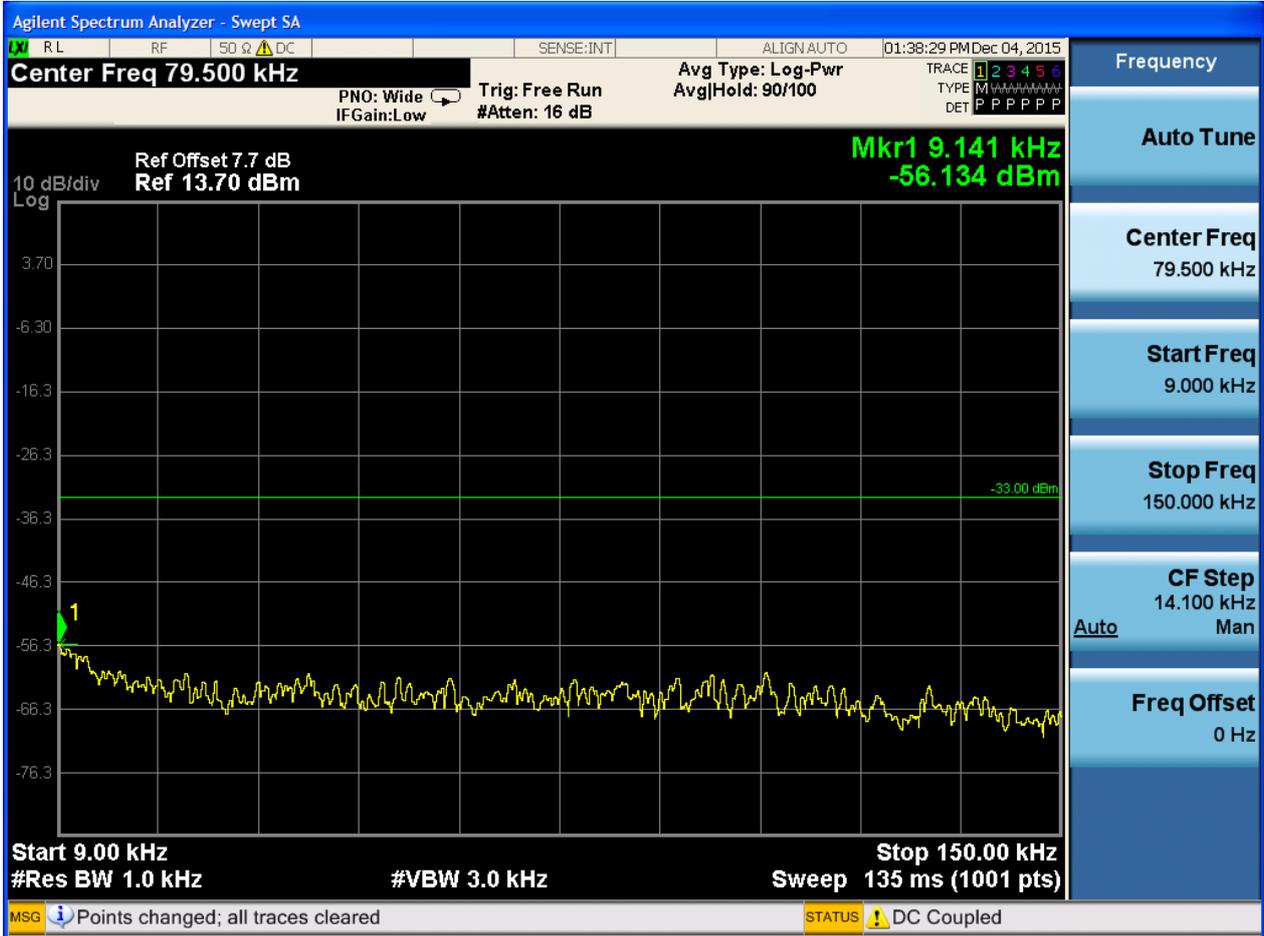


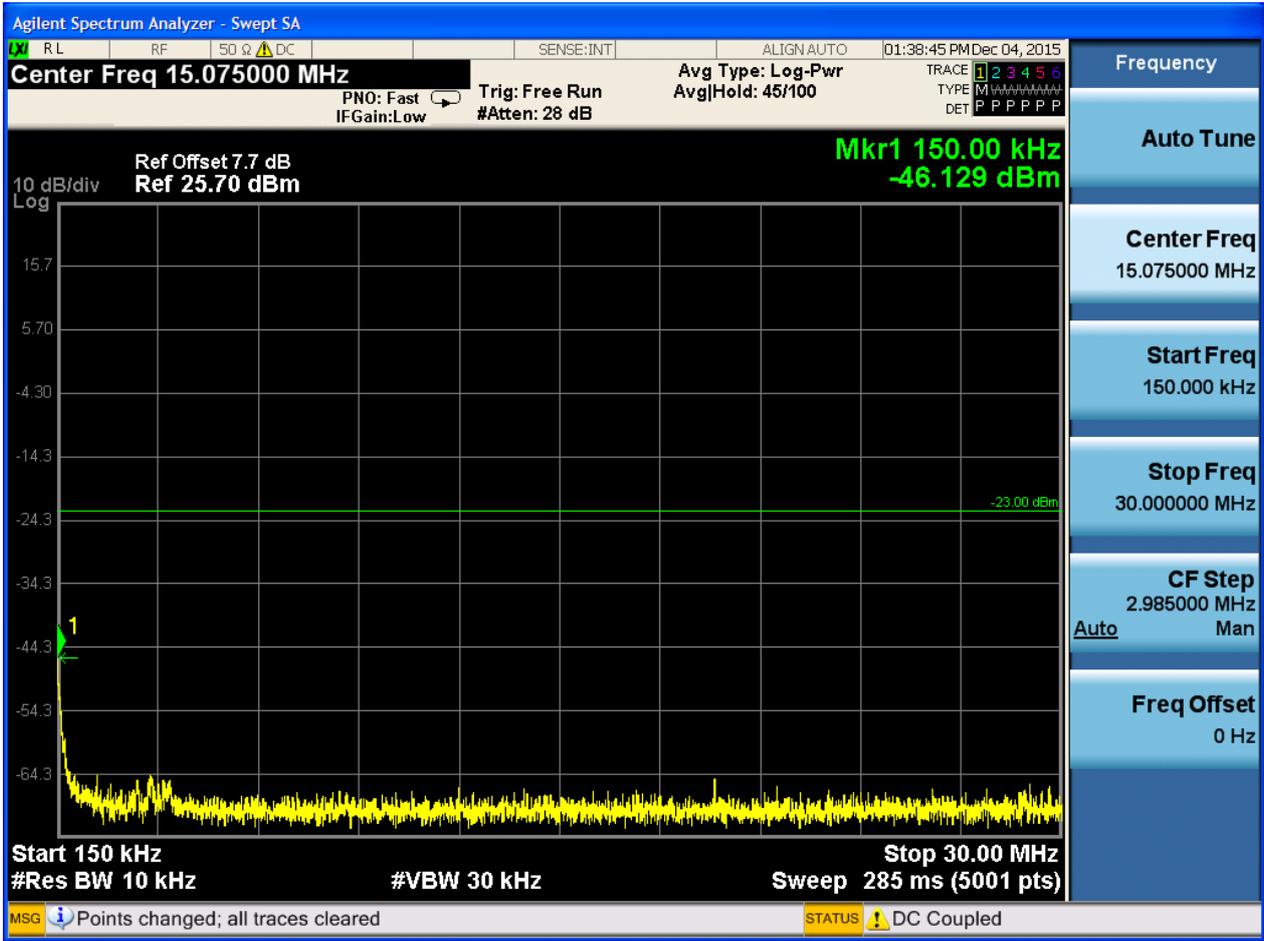


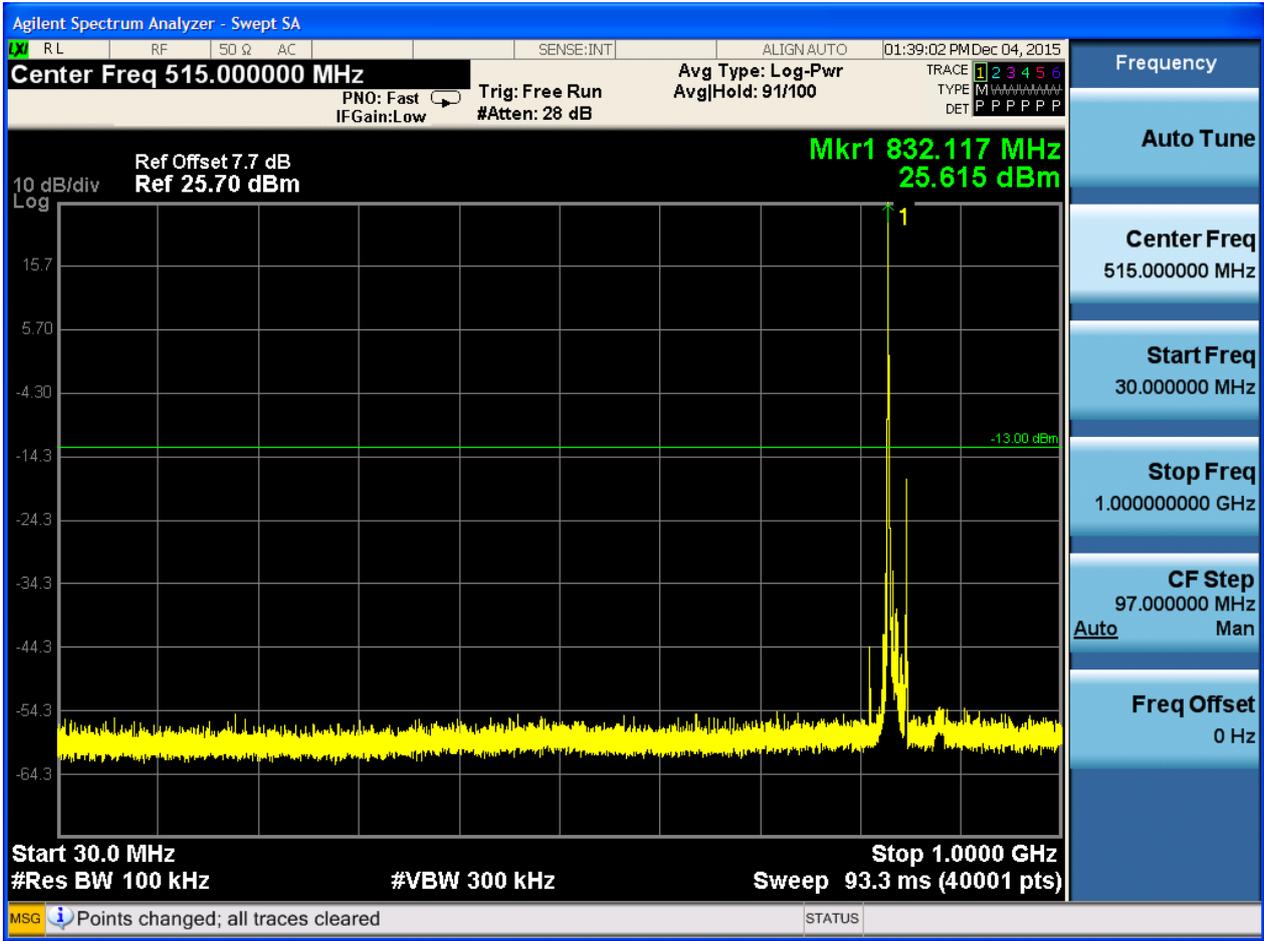


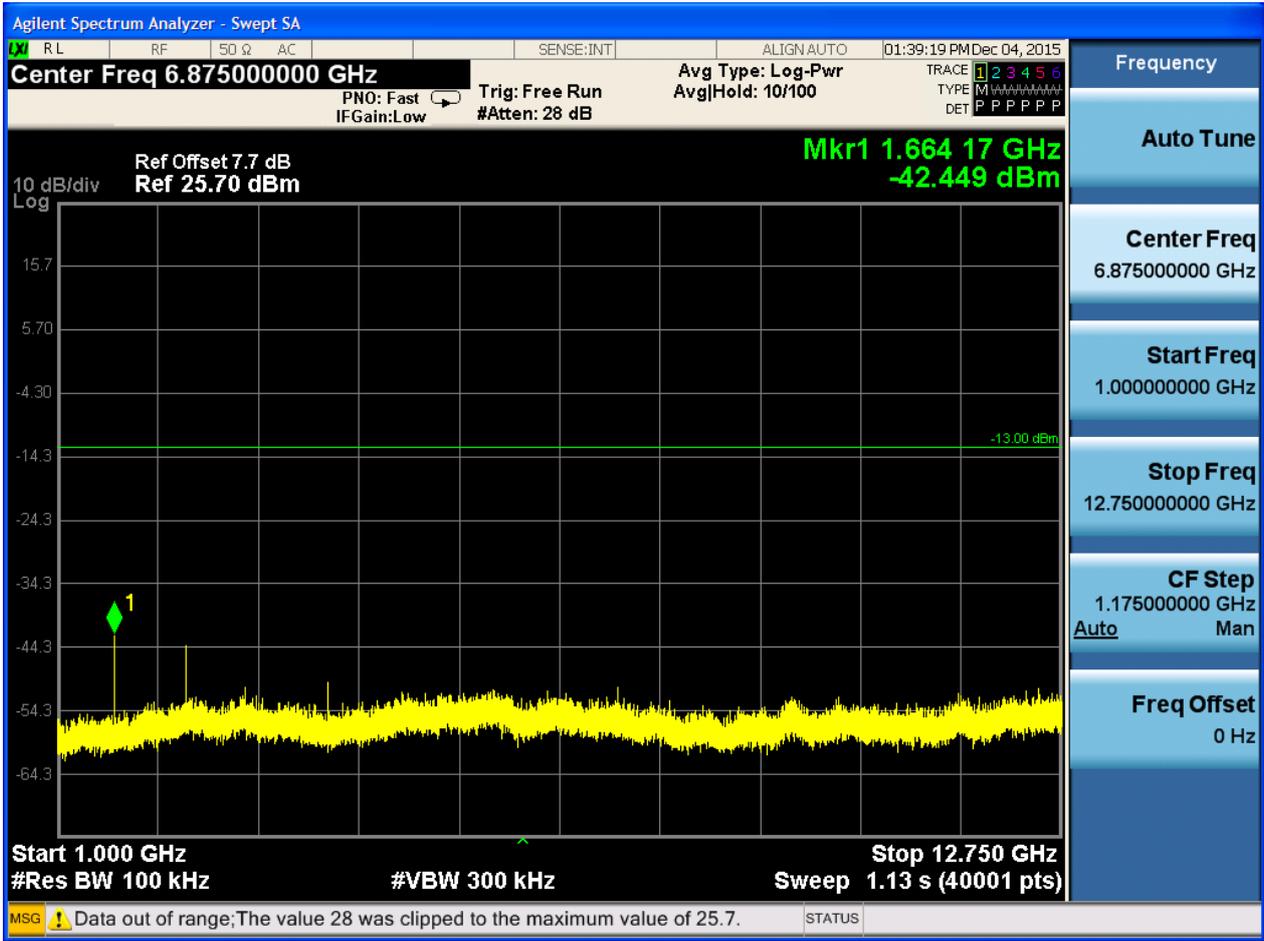
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





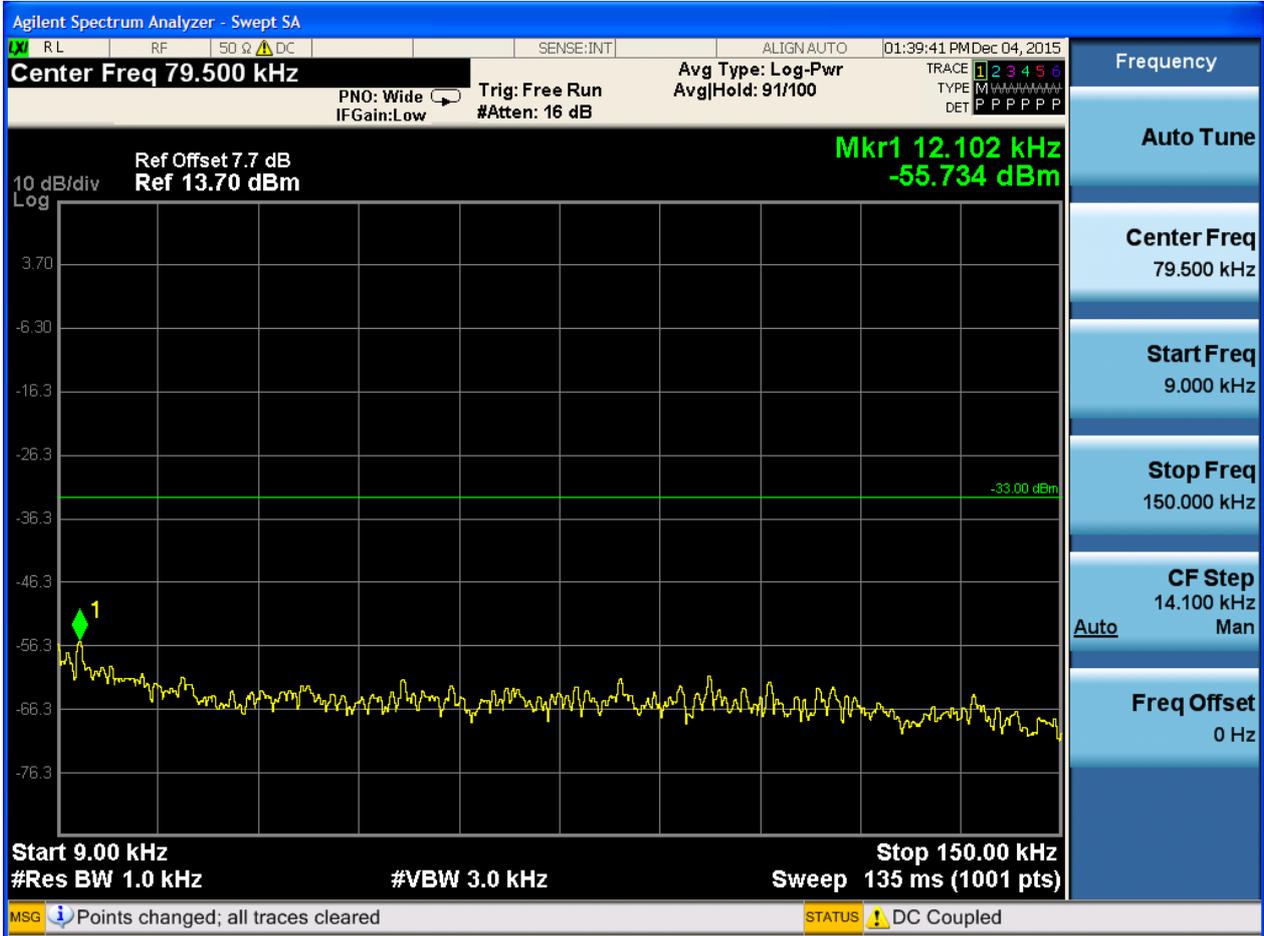


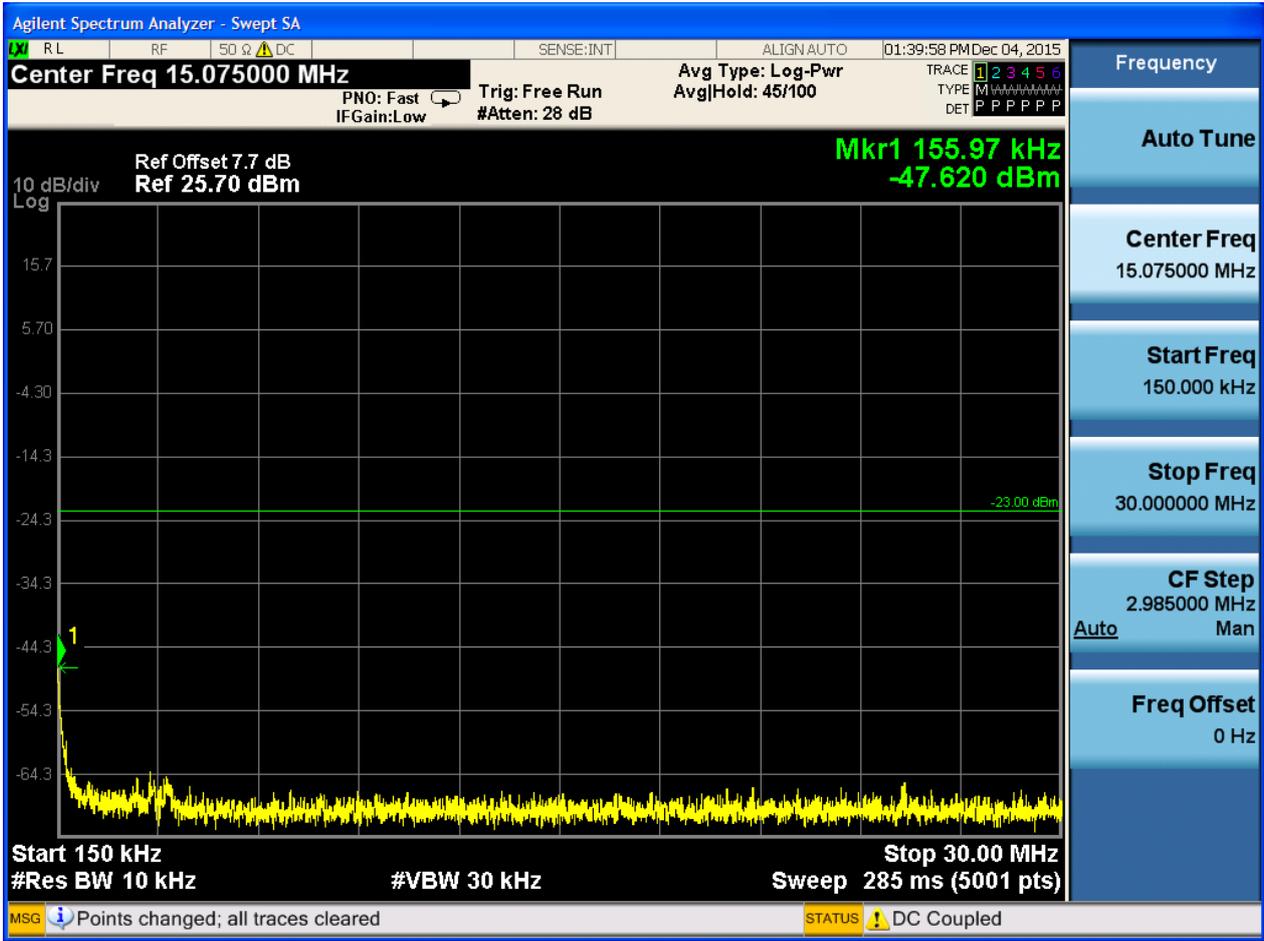


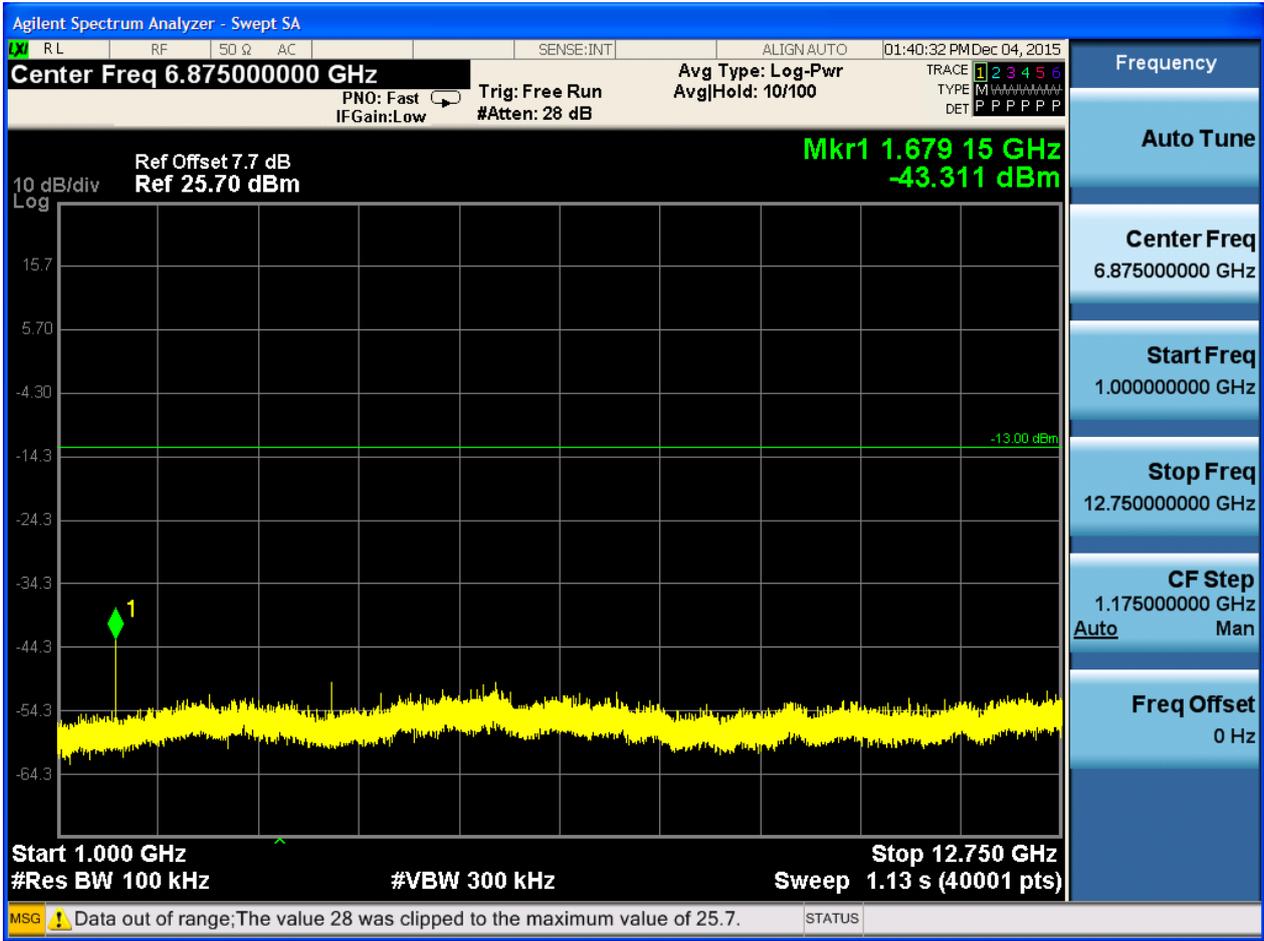


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







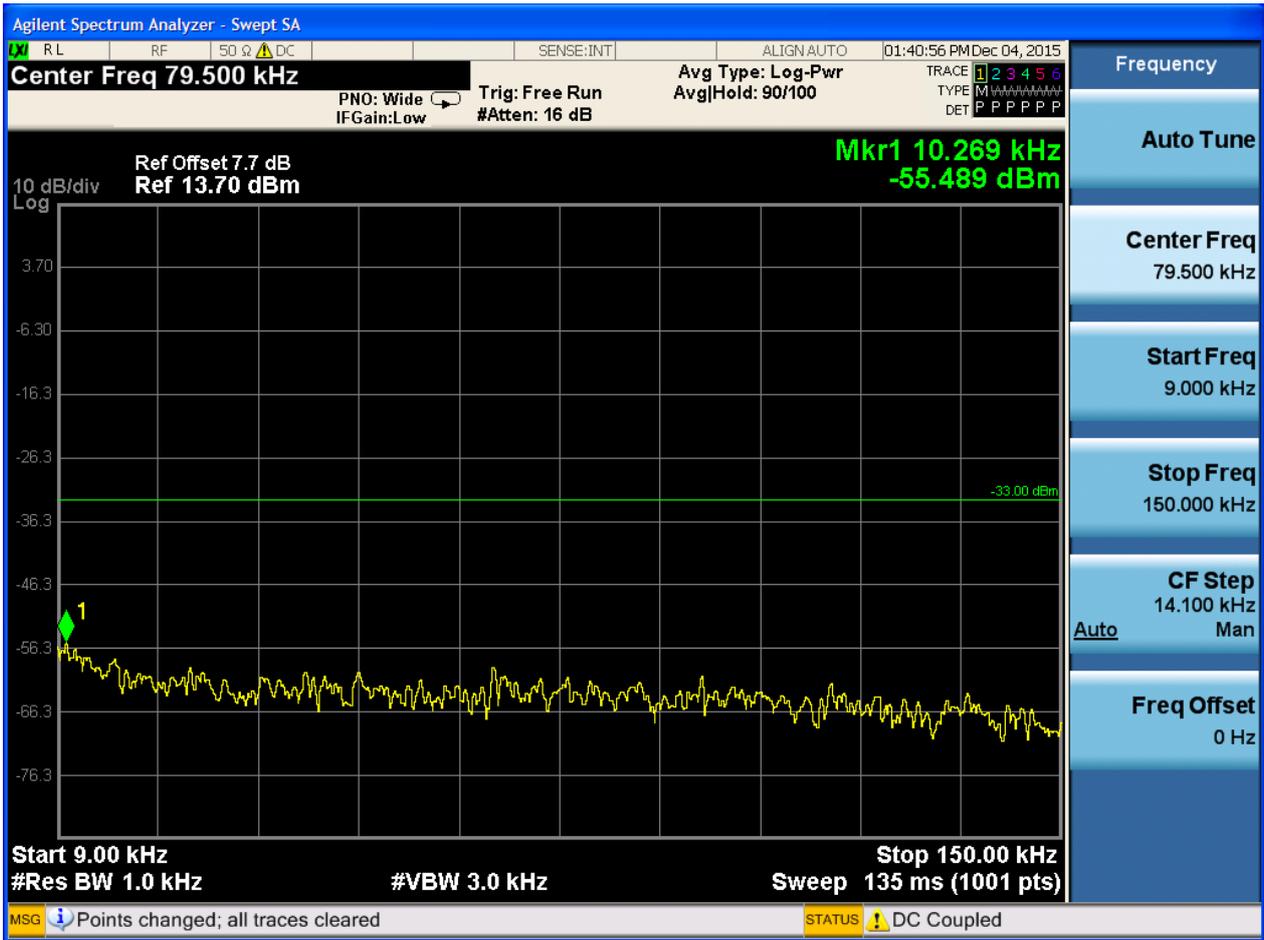


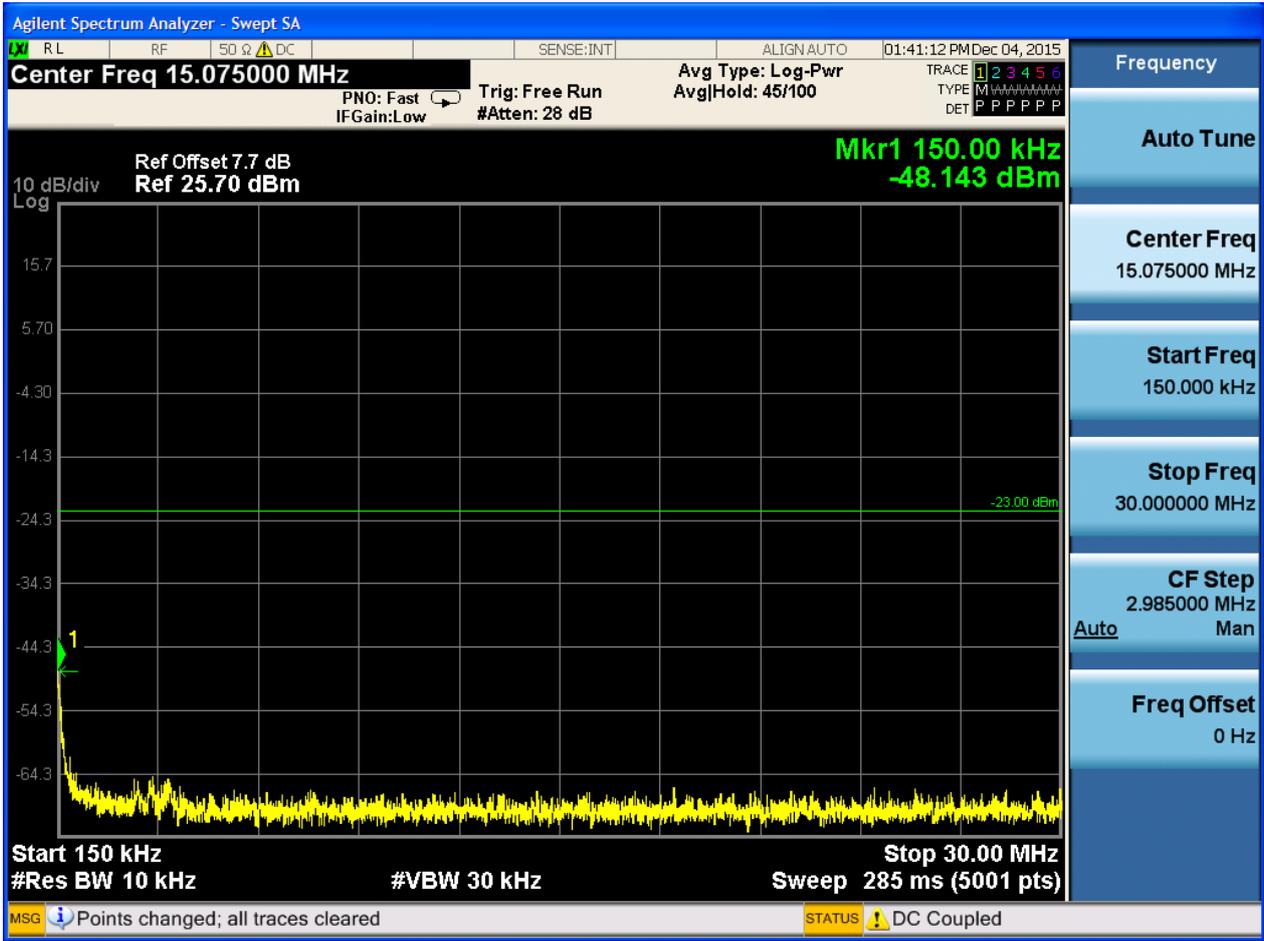
6.1.1.2 Test Mode = LTE/TM2

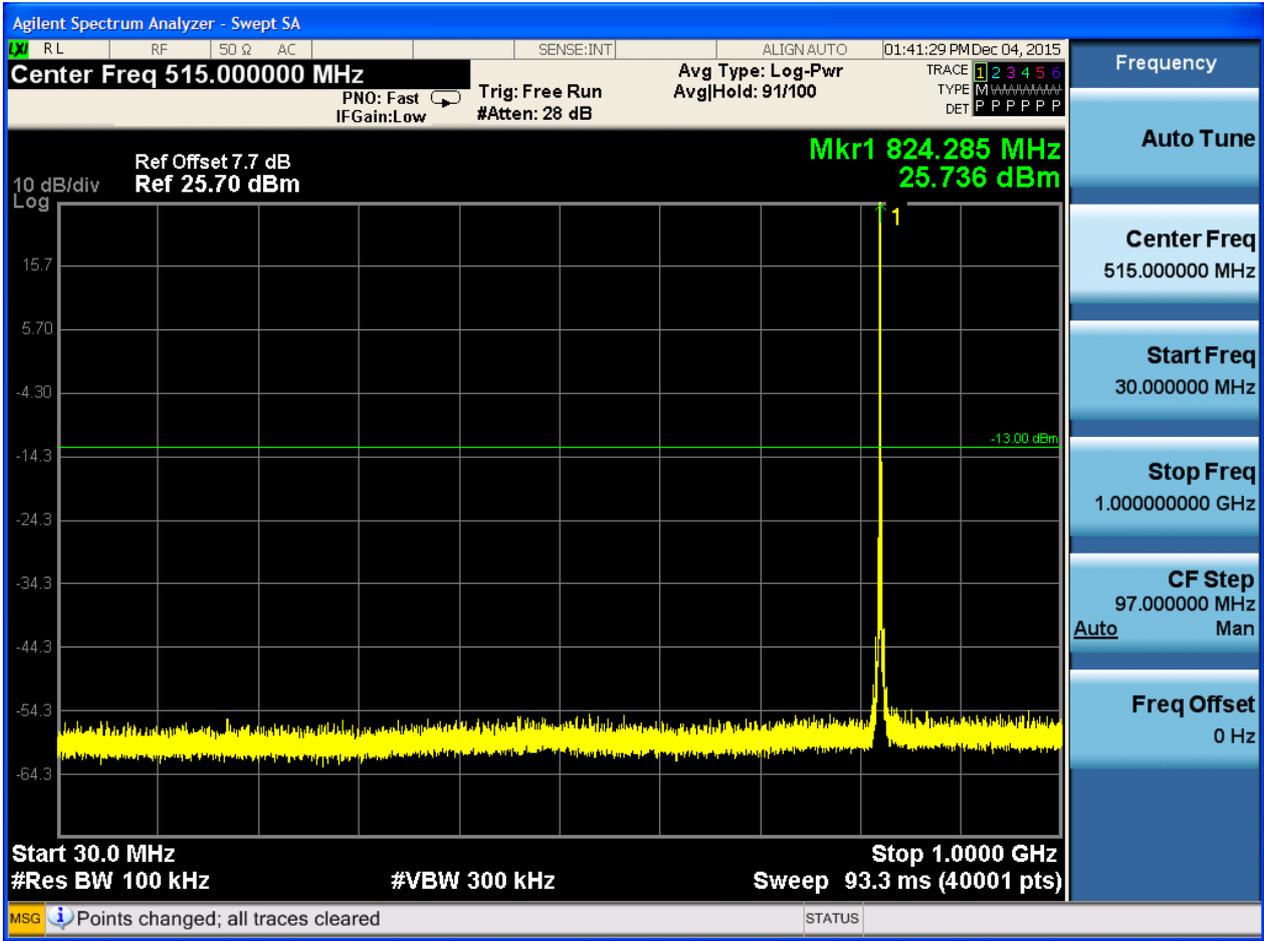
6.1.1.2.1 Test Bandwidth = 1.4

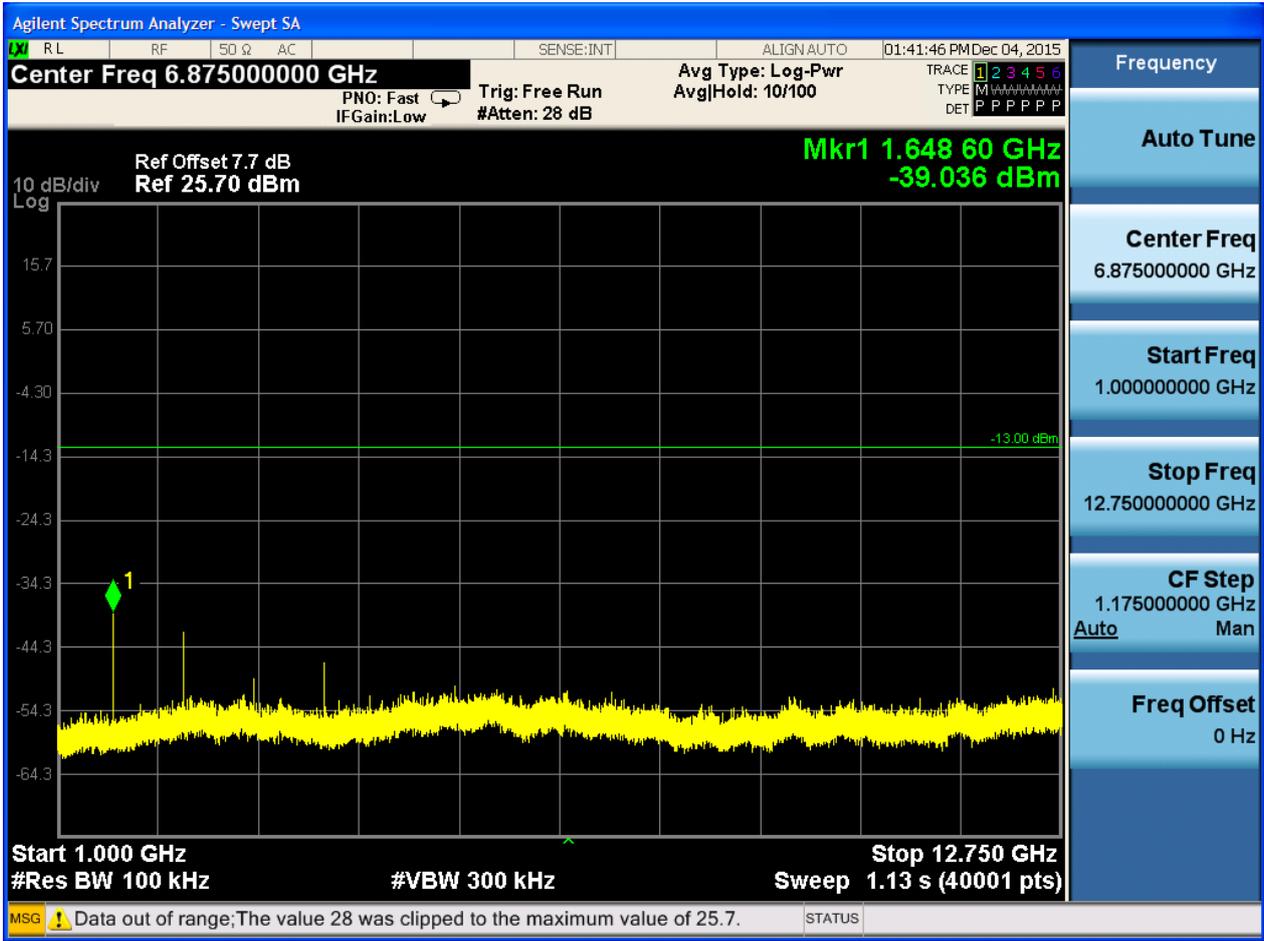
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





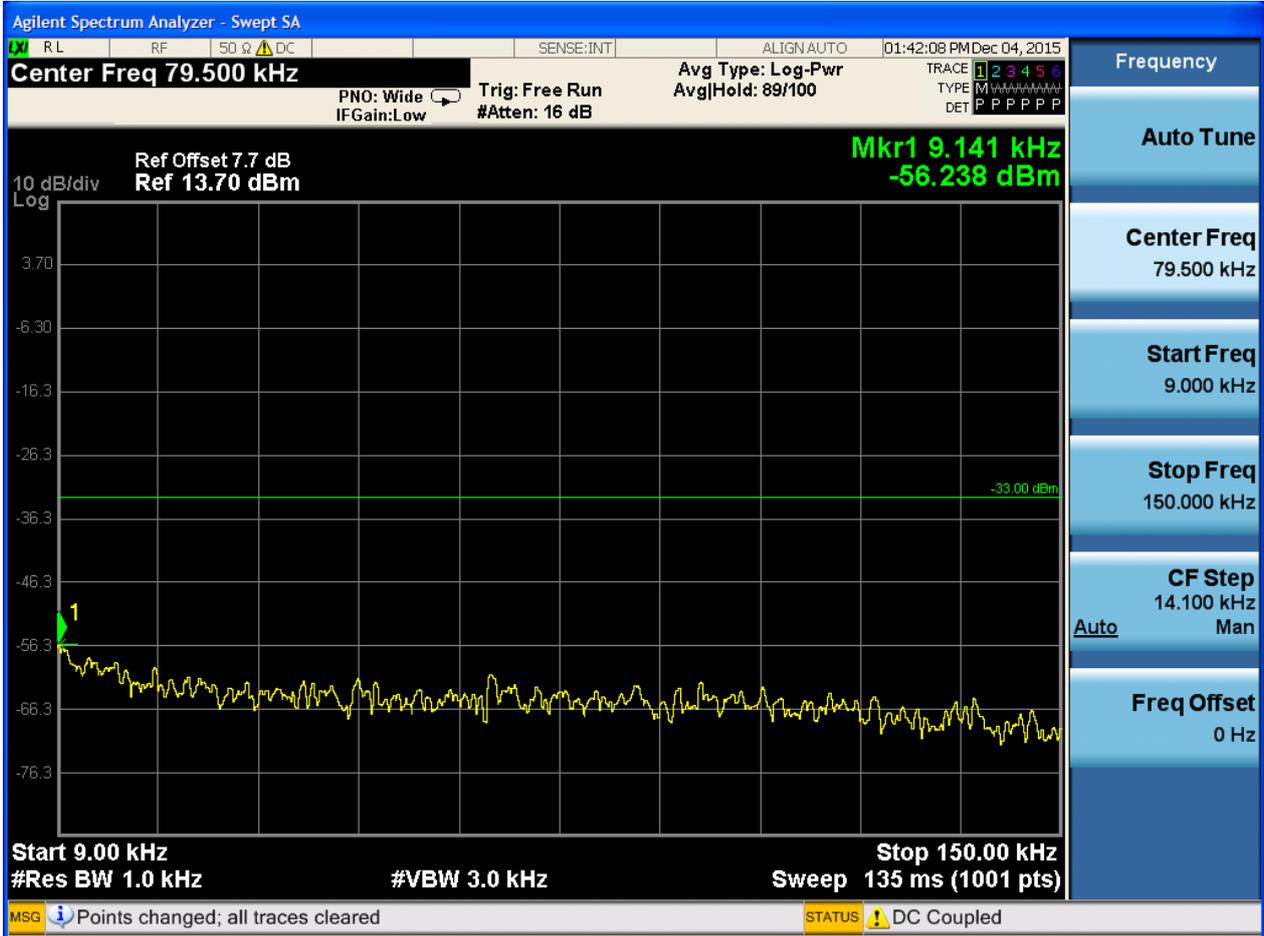


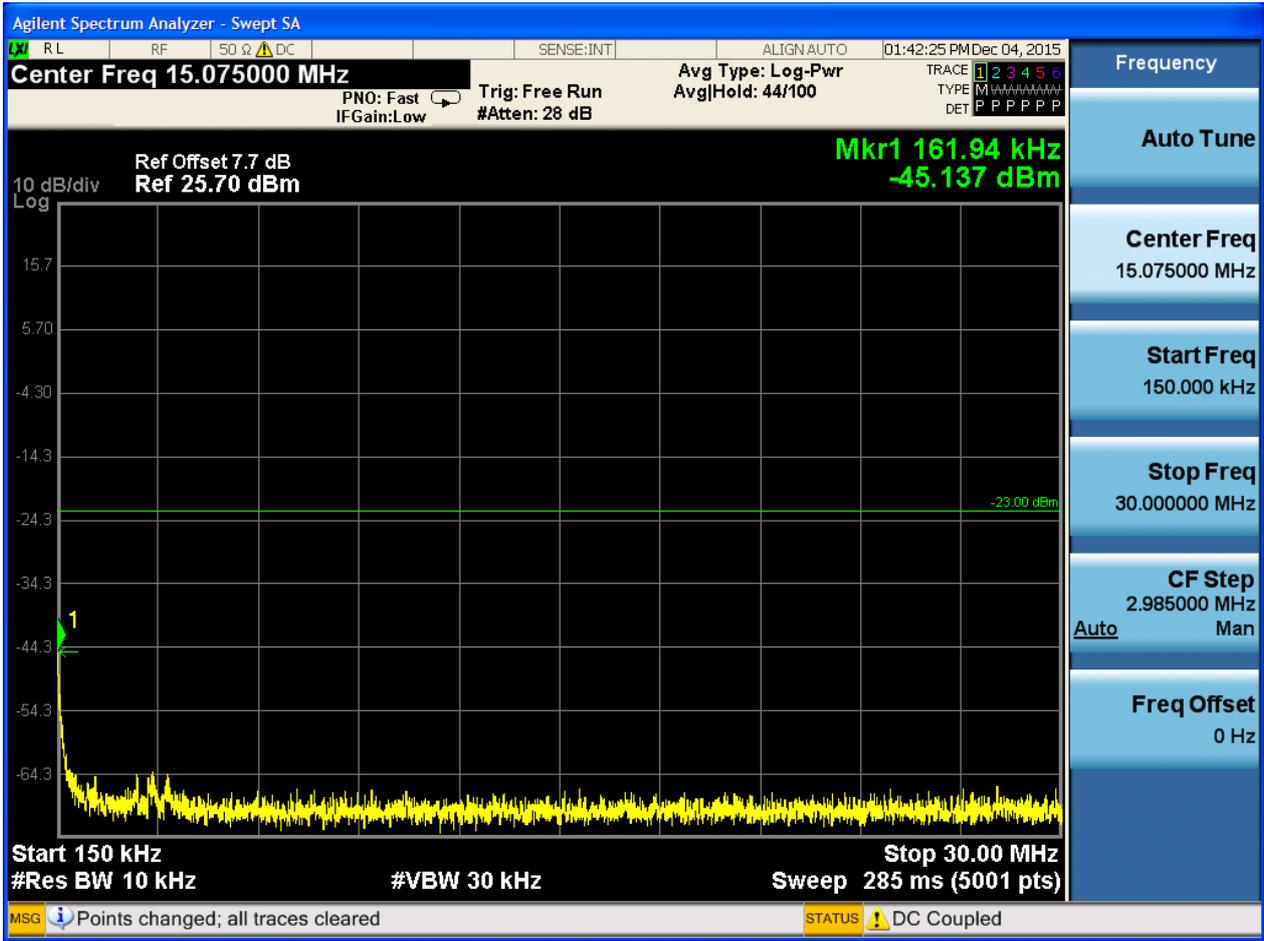


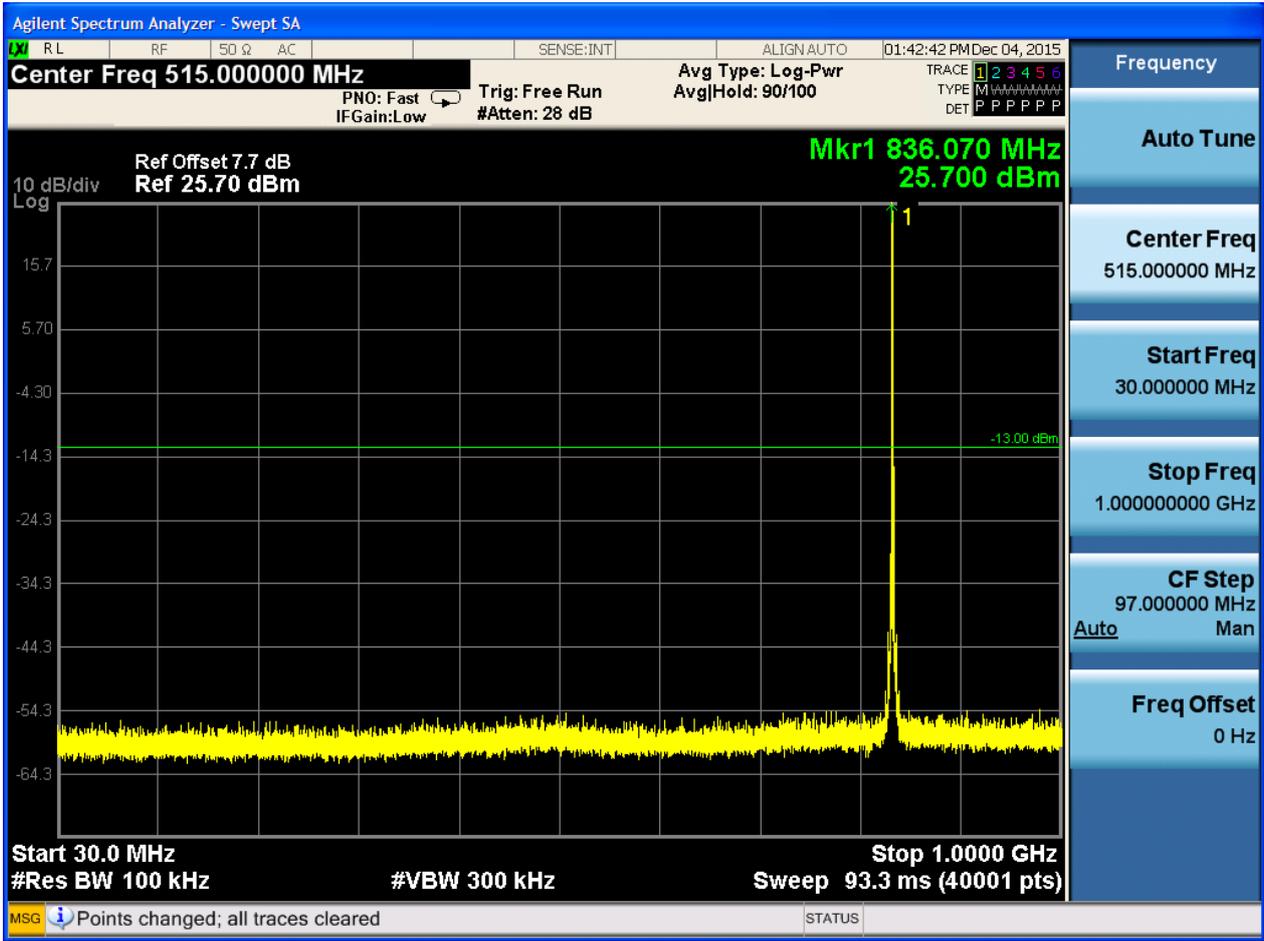


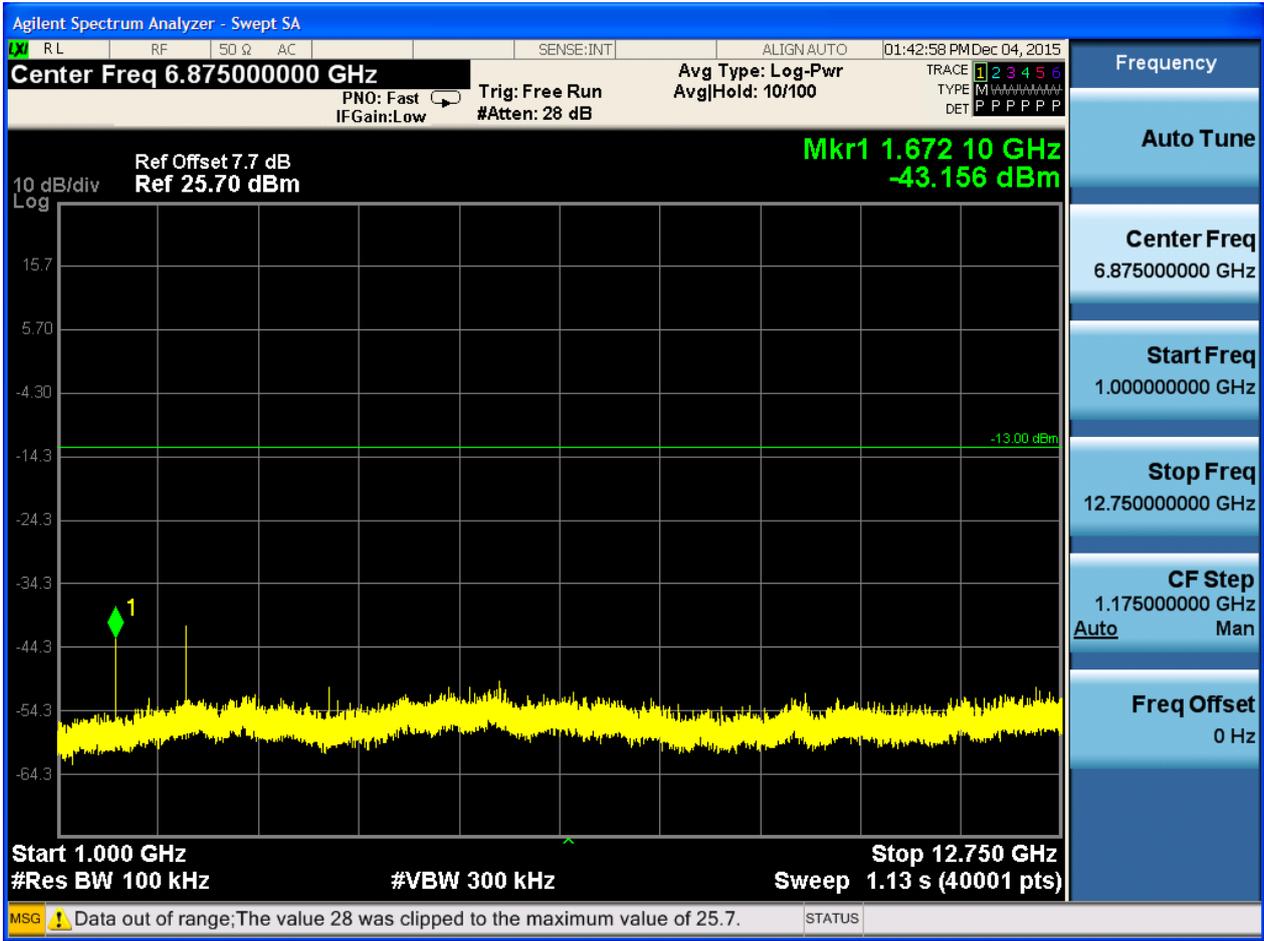
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



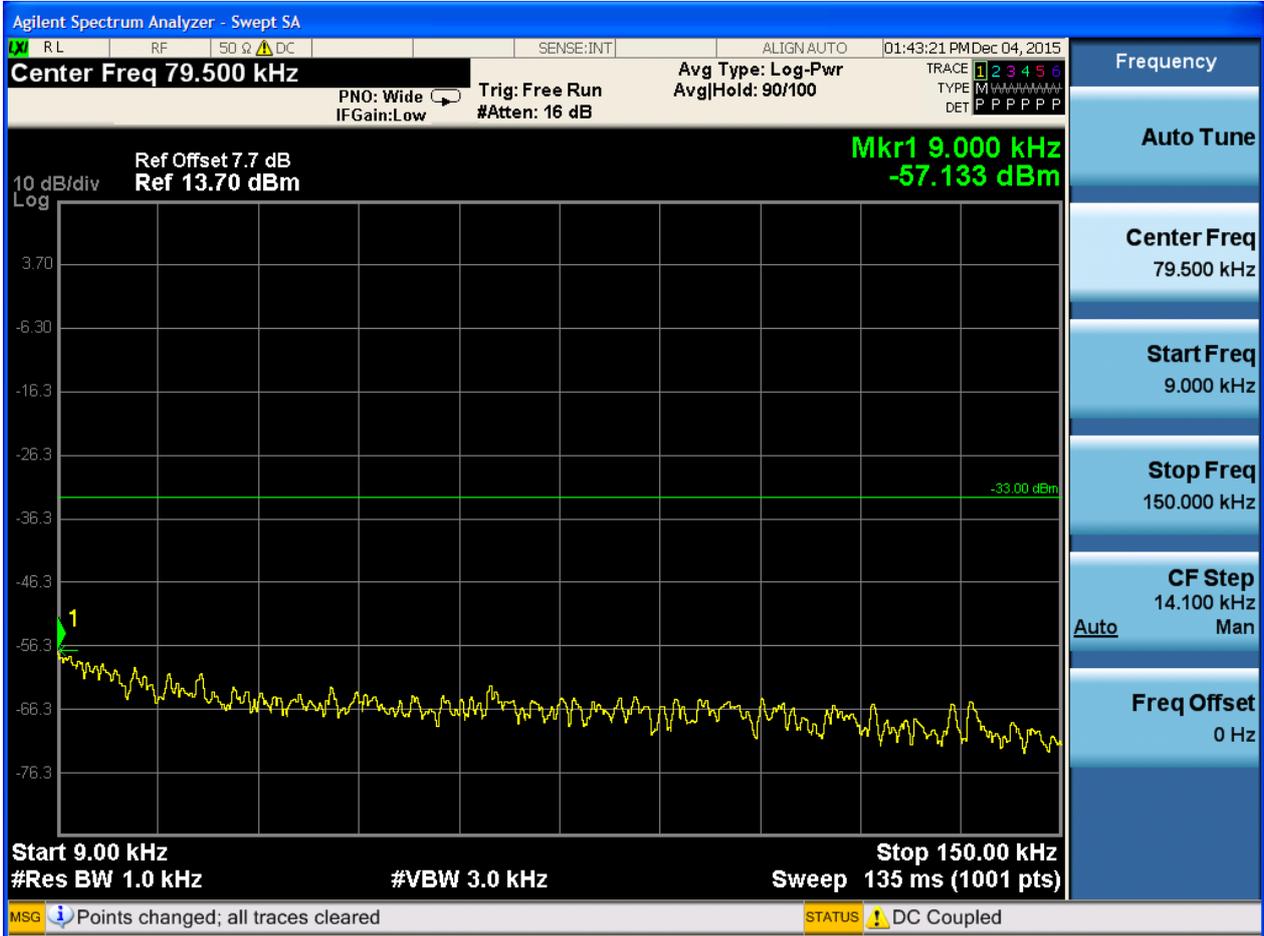


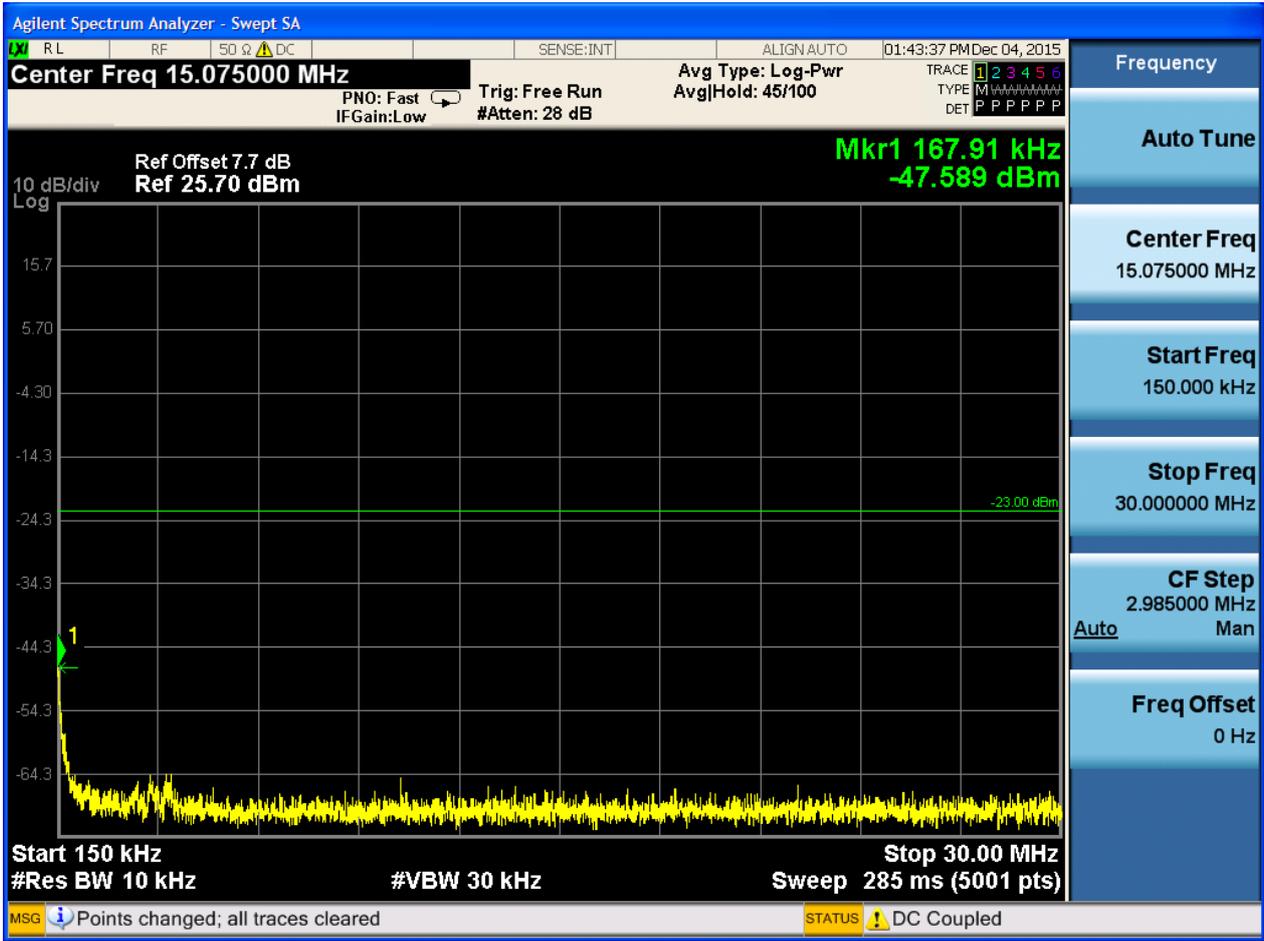


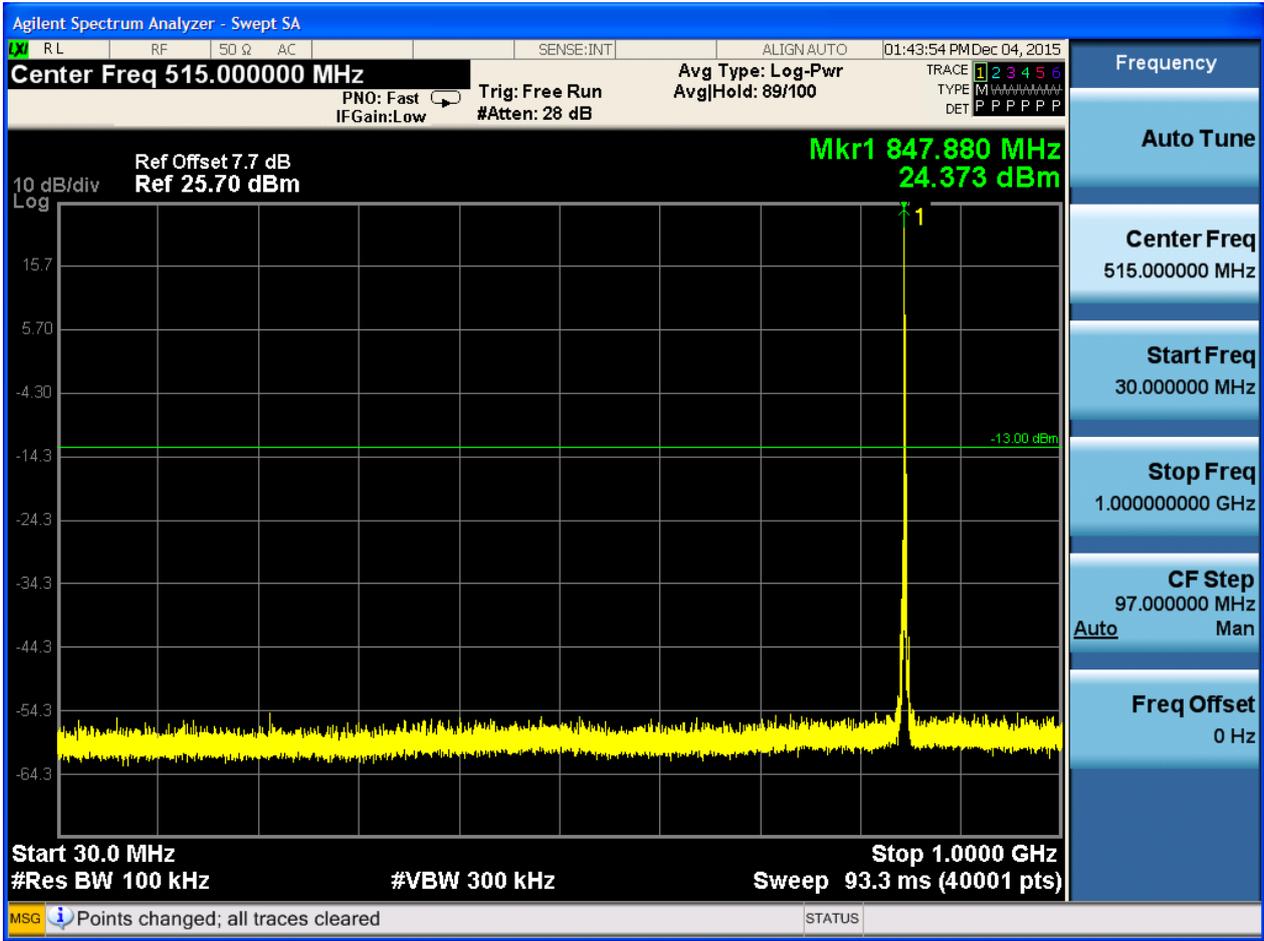


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





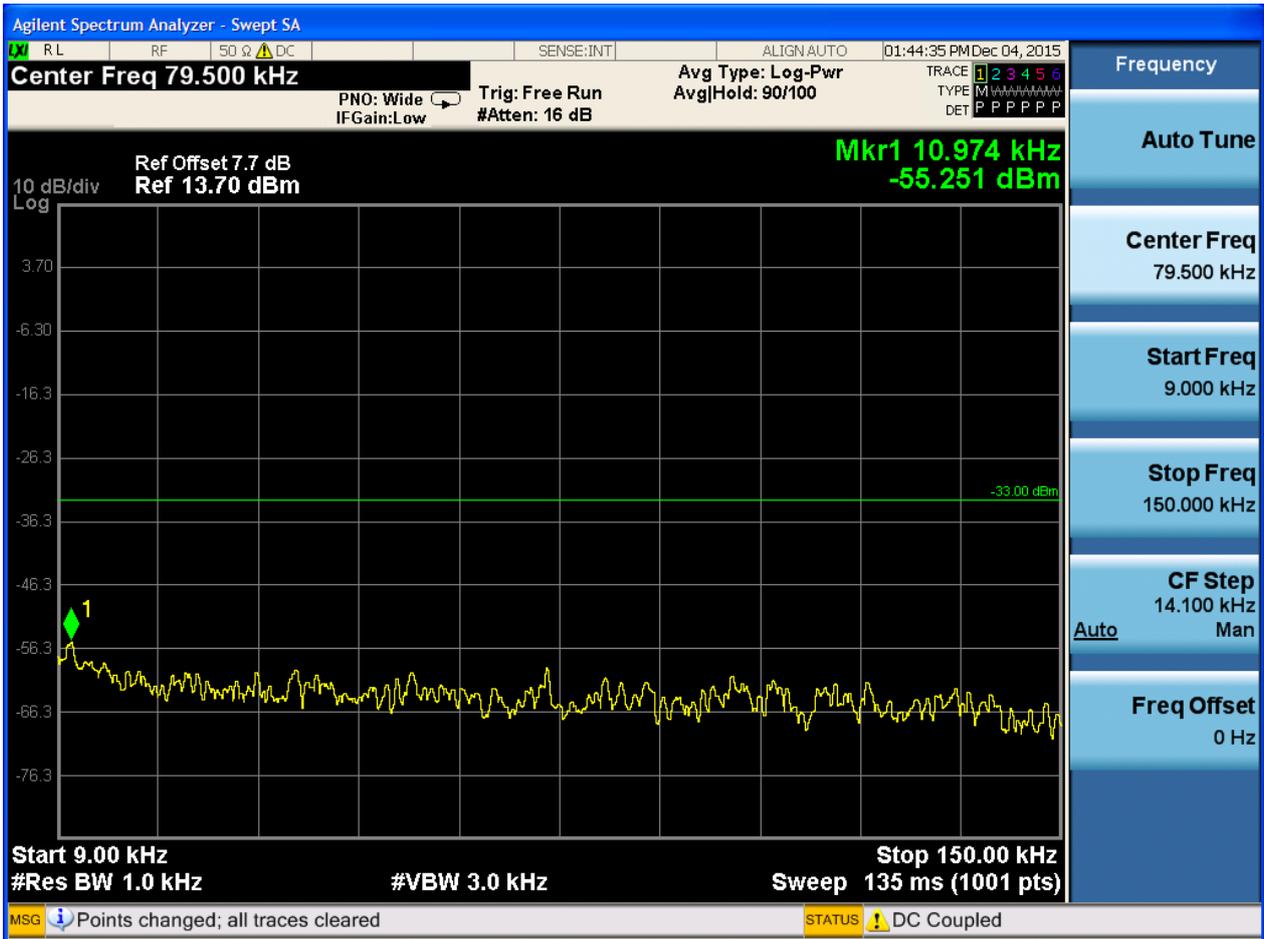


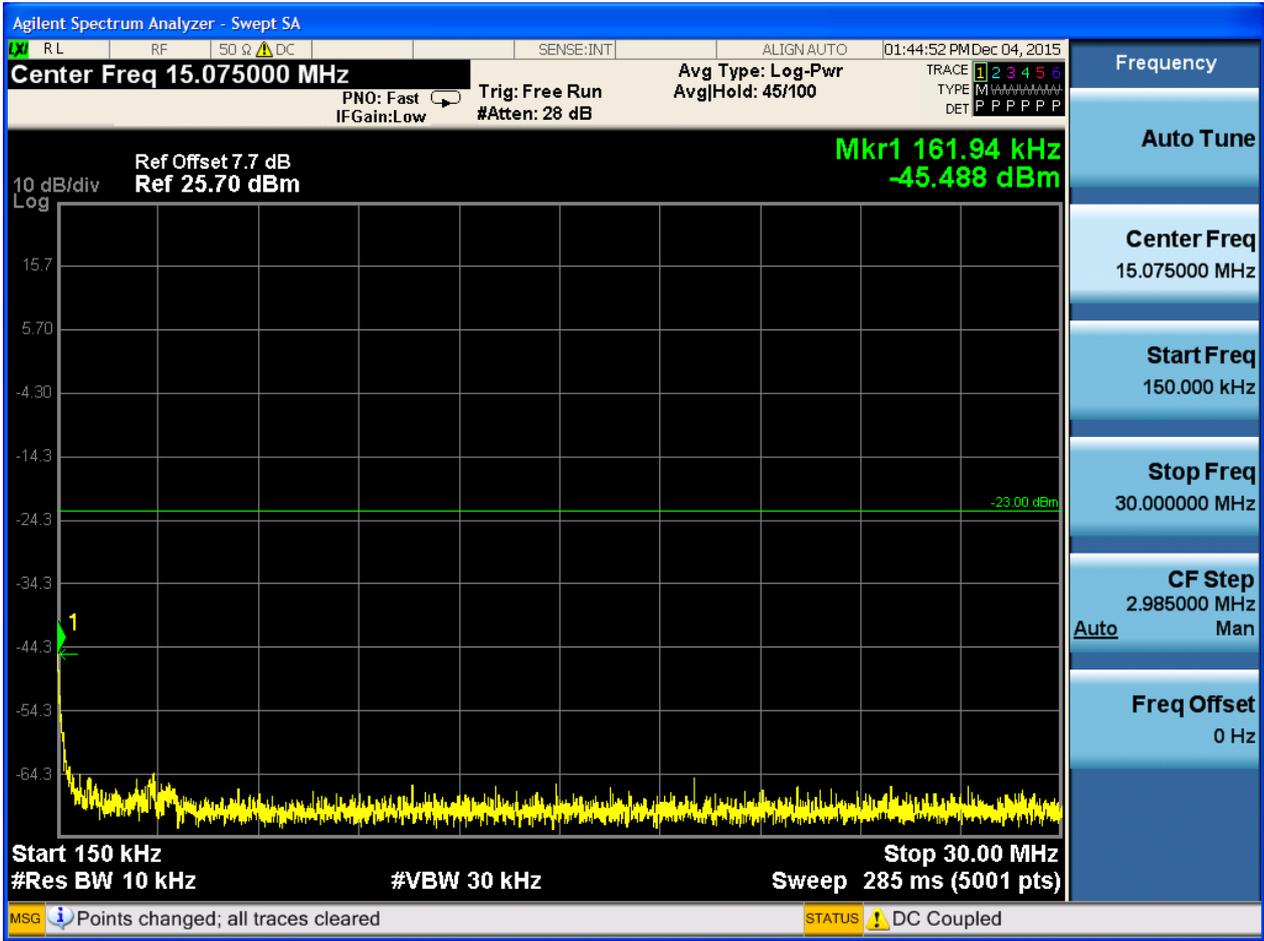


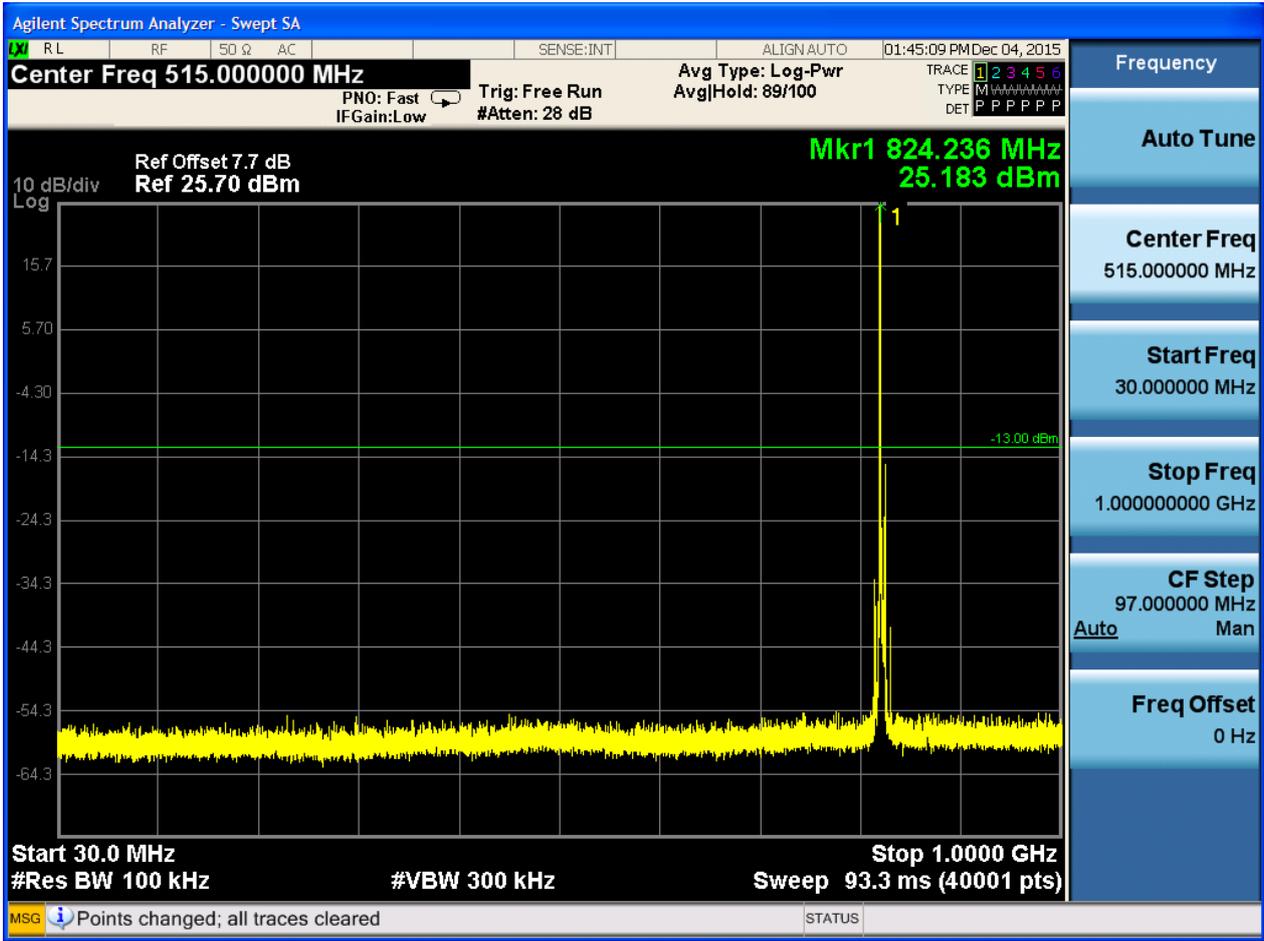
6.1.1.2.2 Test Bandwidth = 3

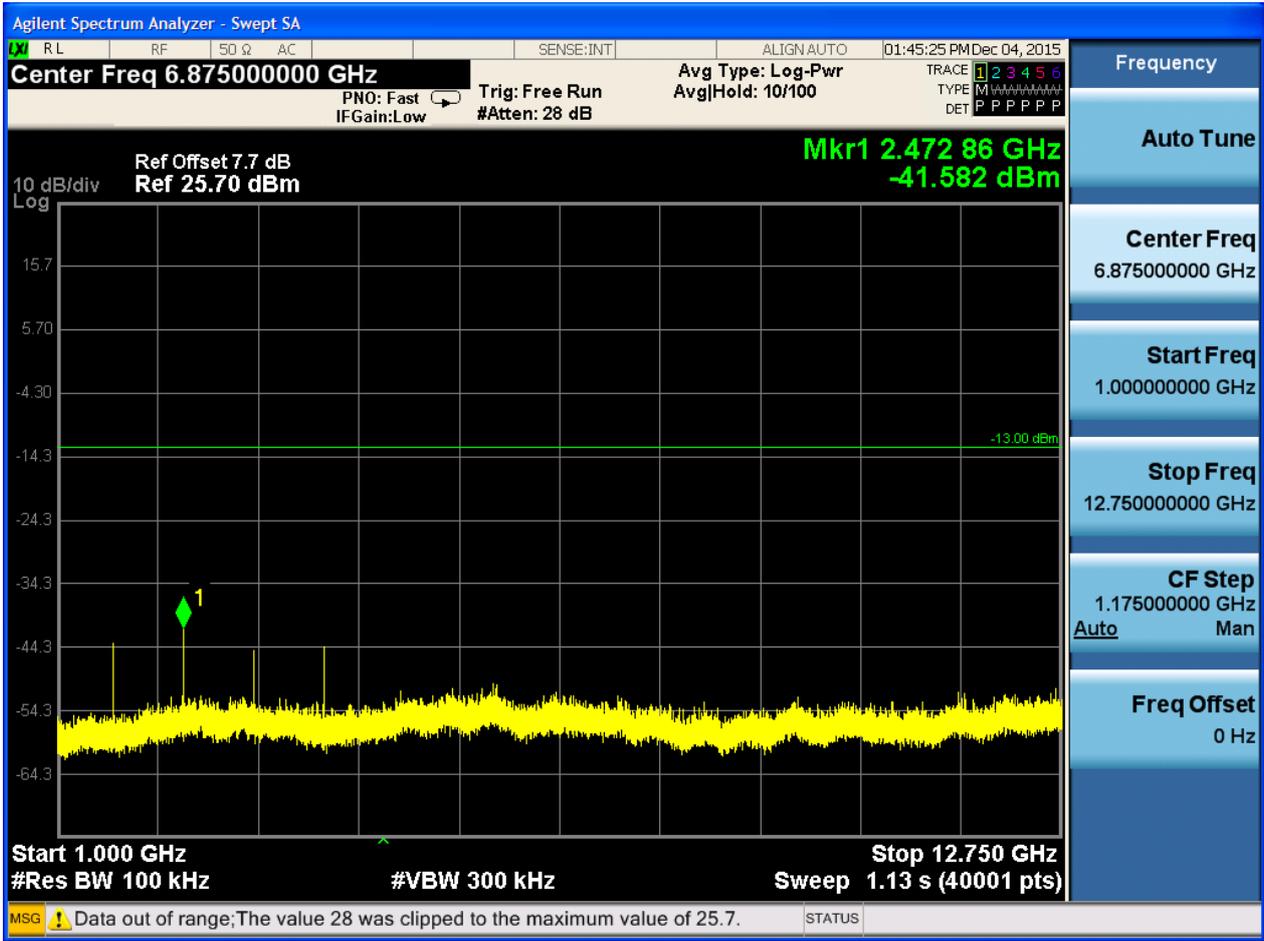
6.1.1.2.2.1 Test Channel = LCH

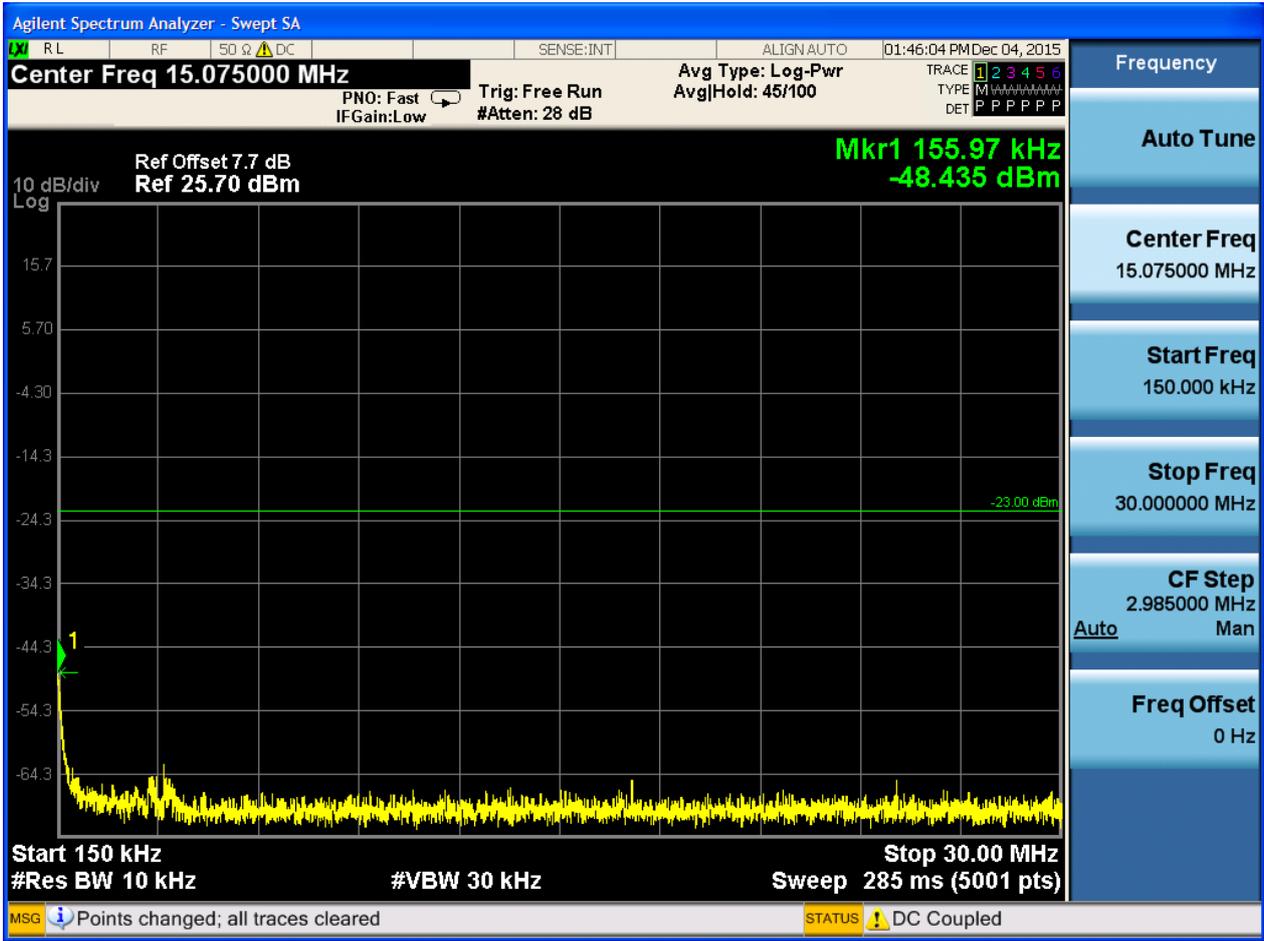
6.1.1.2.2.1.1 Test RB = RB1#0

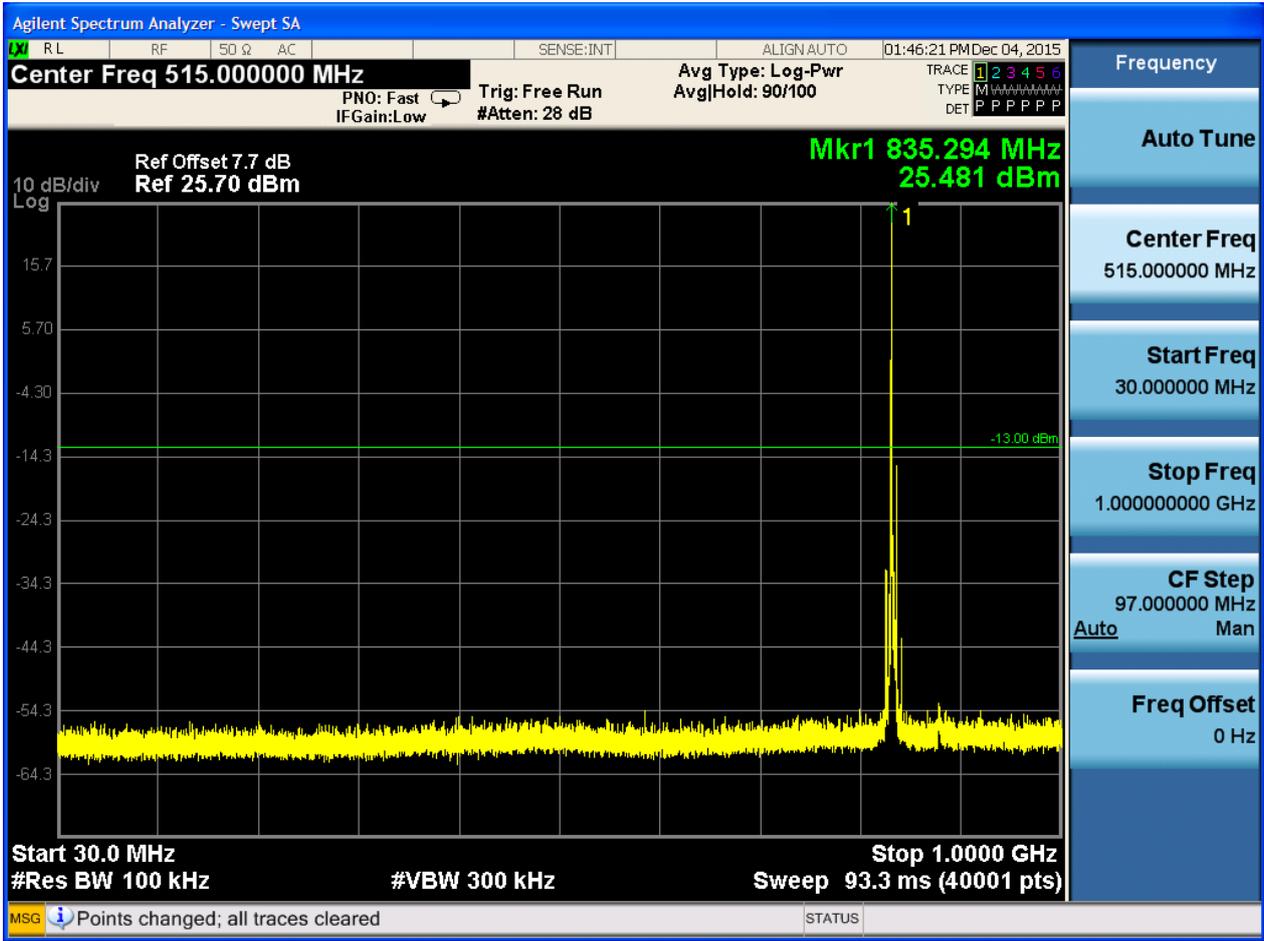


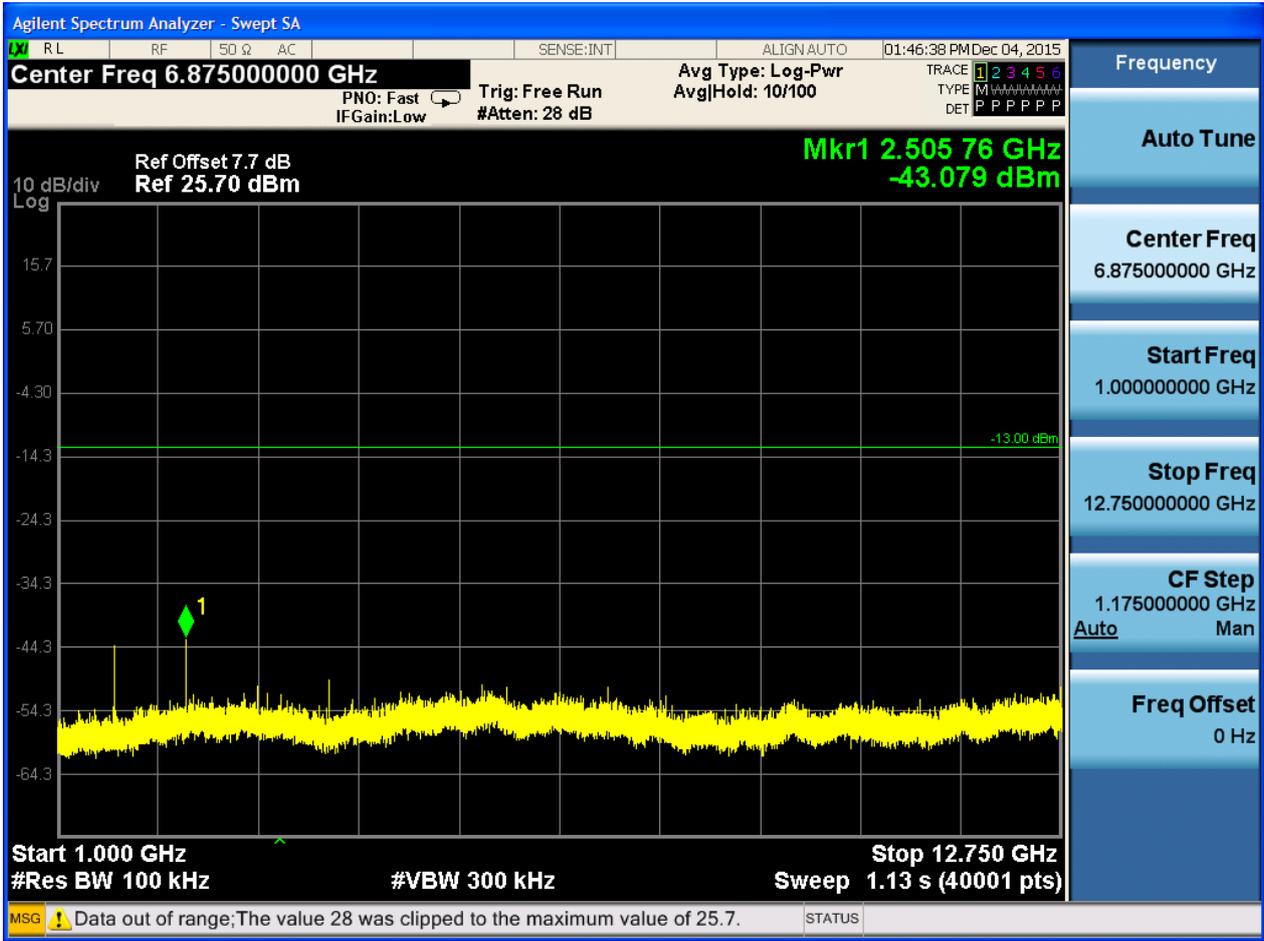








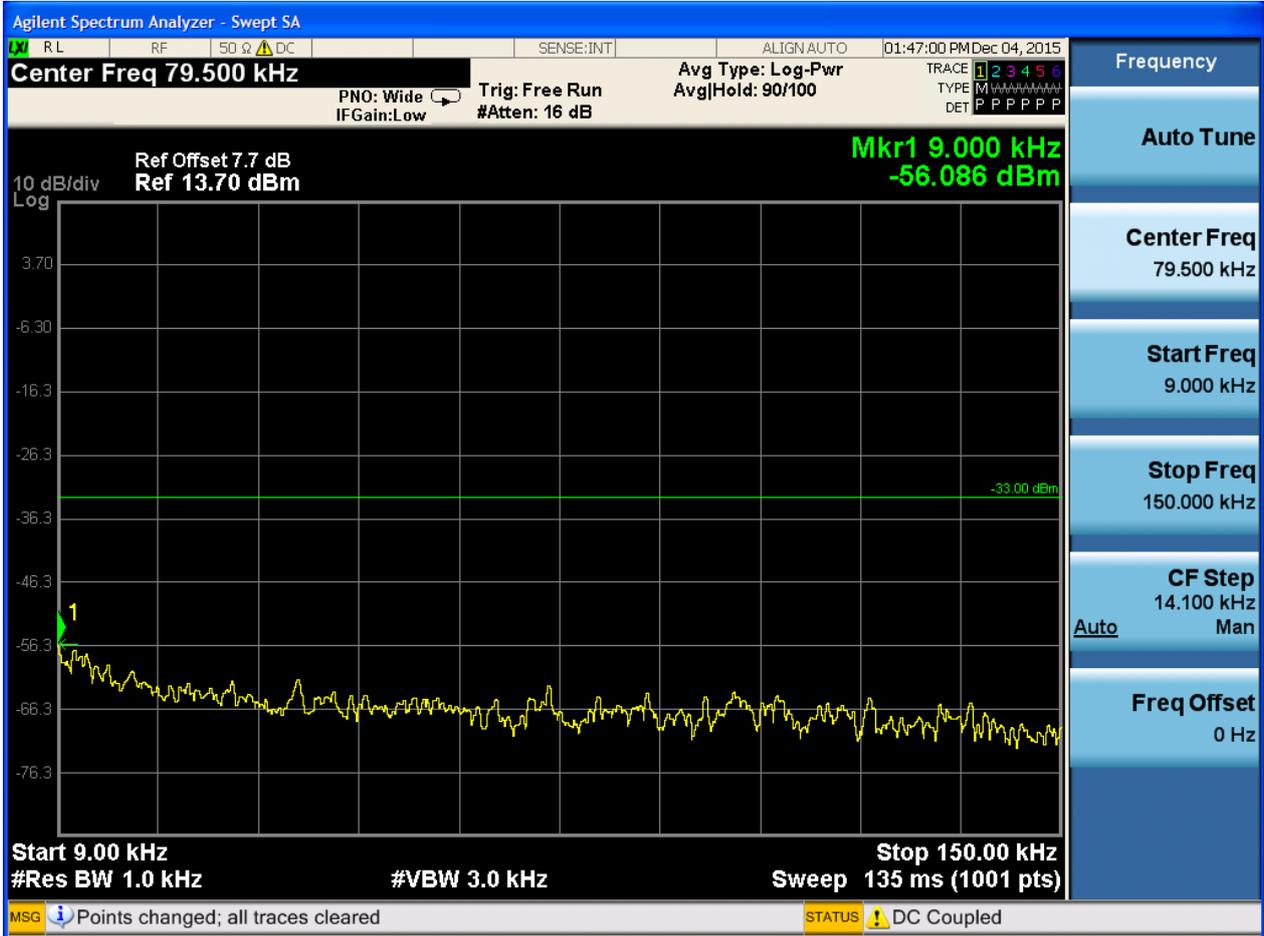


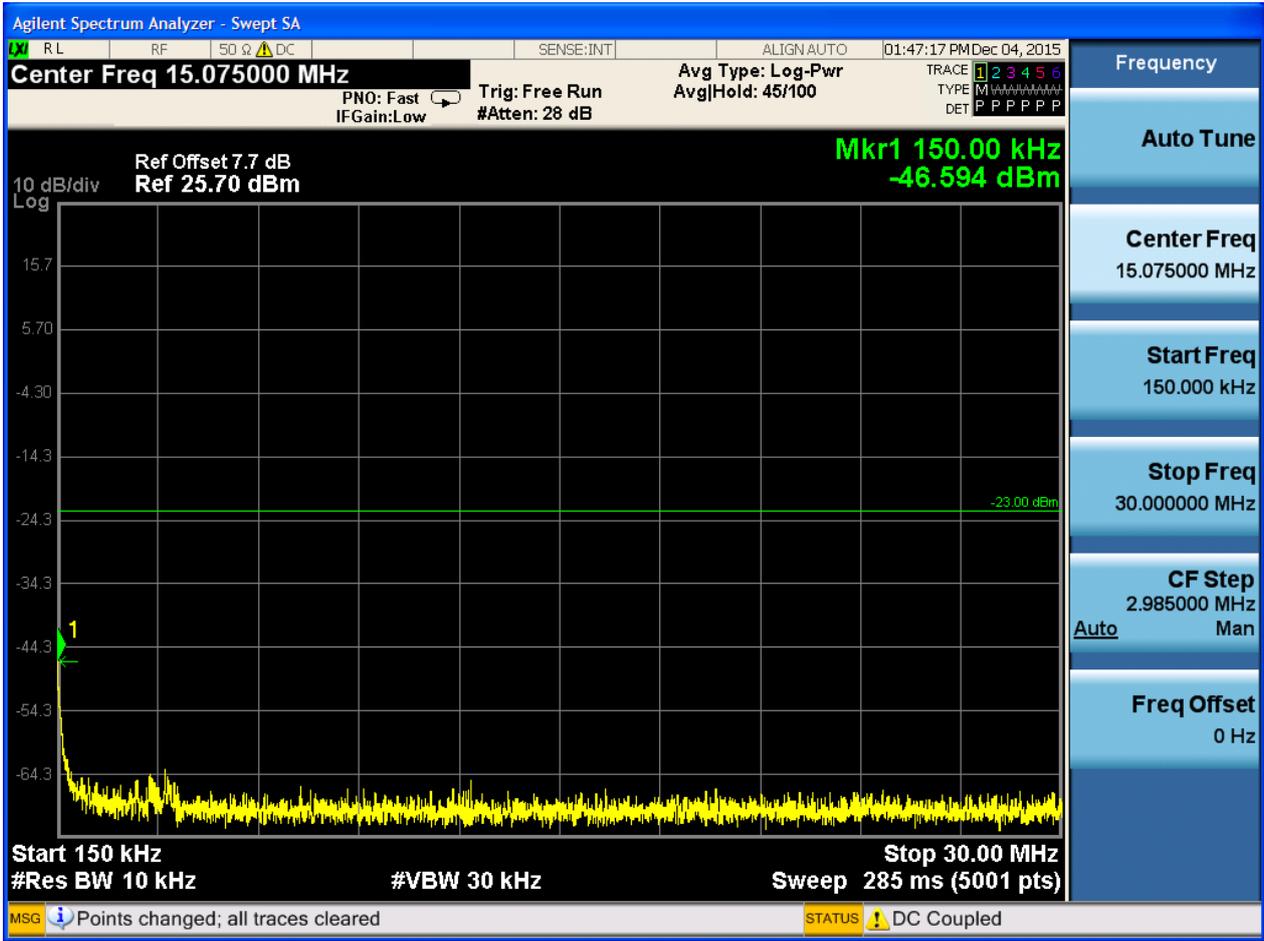


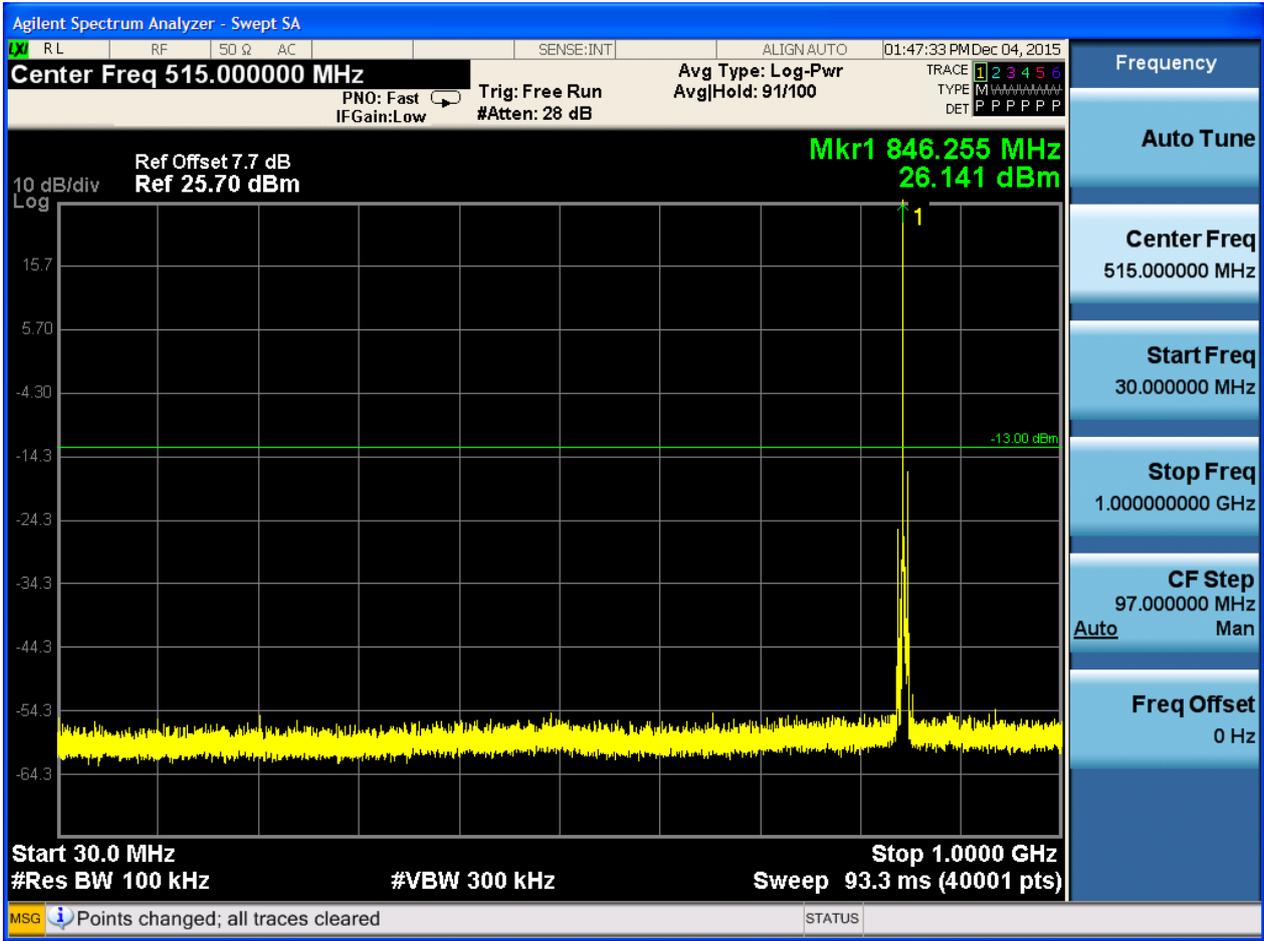


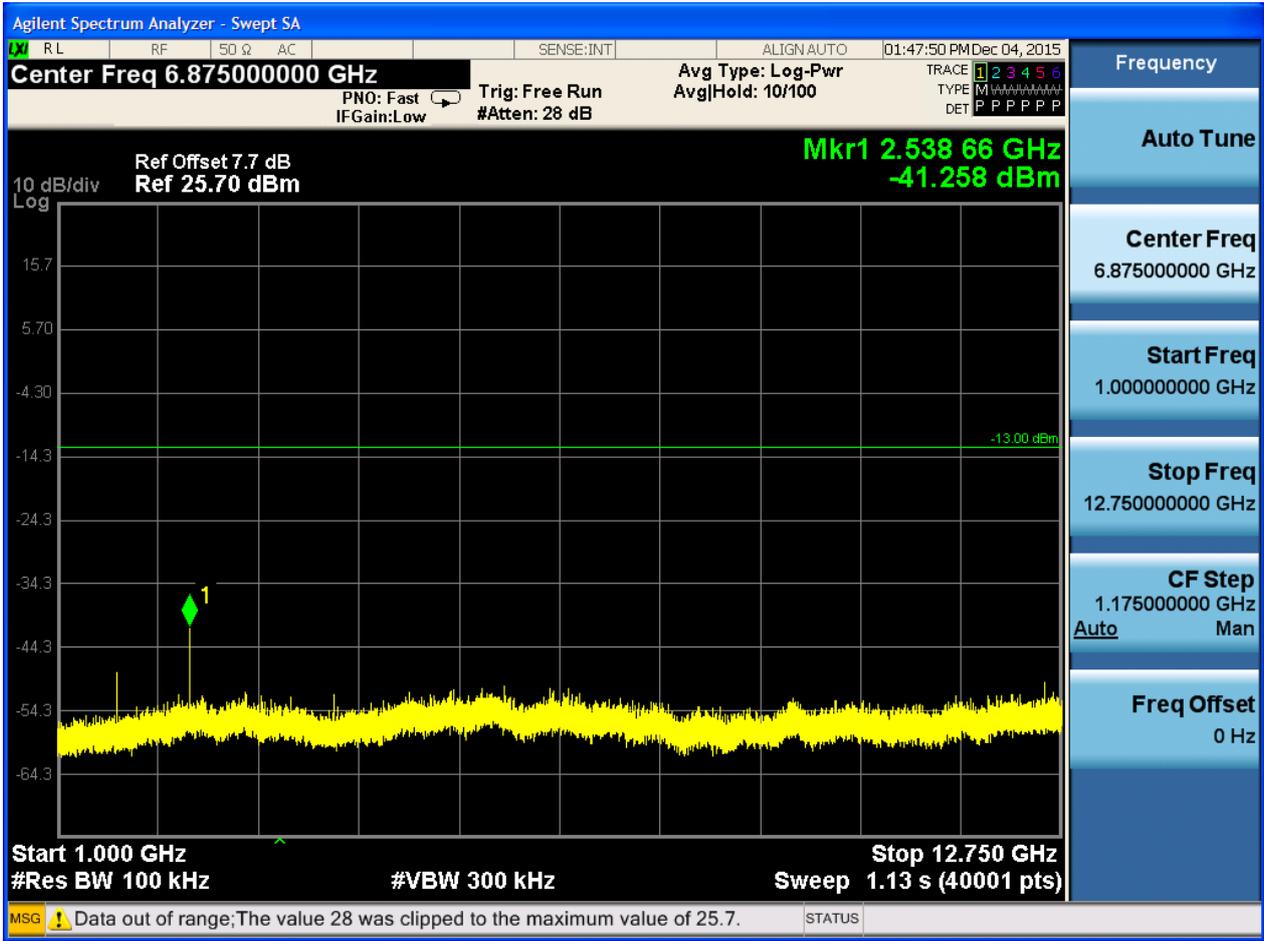
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







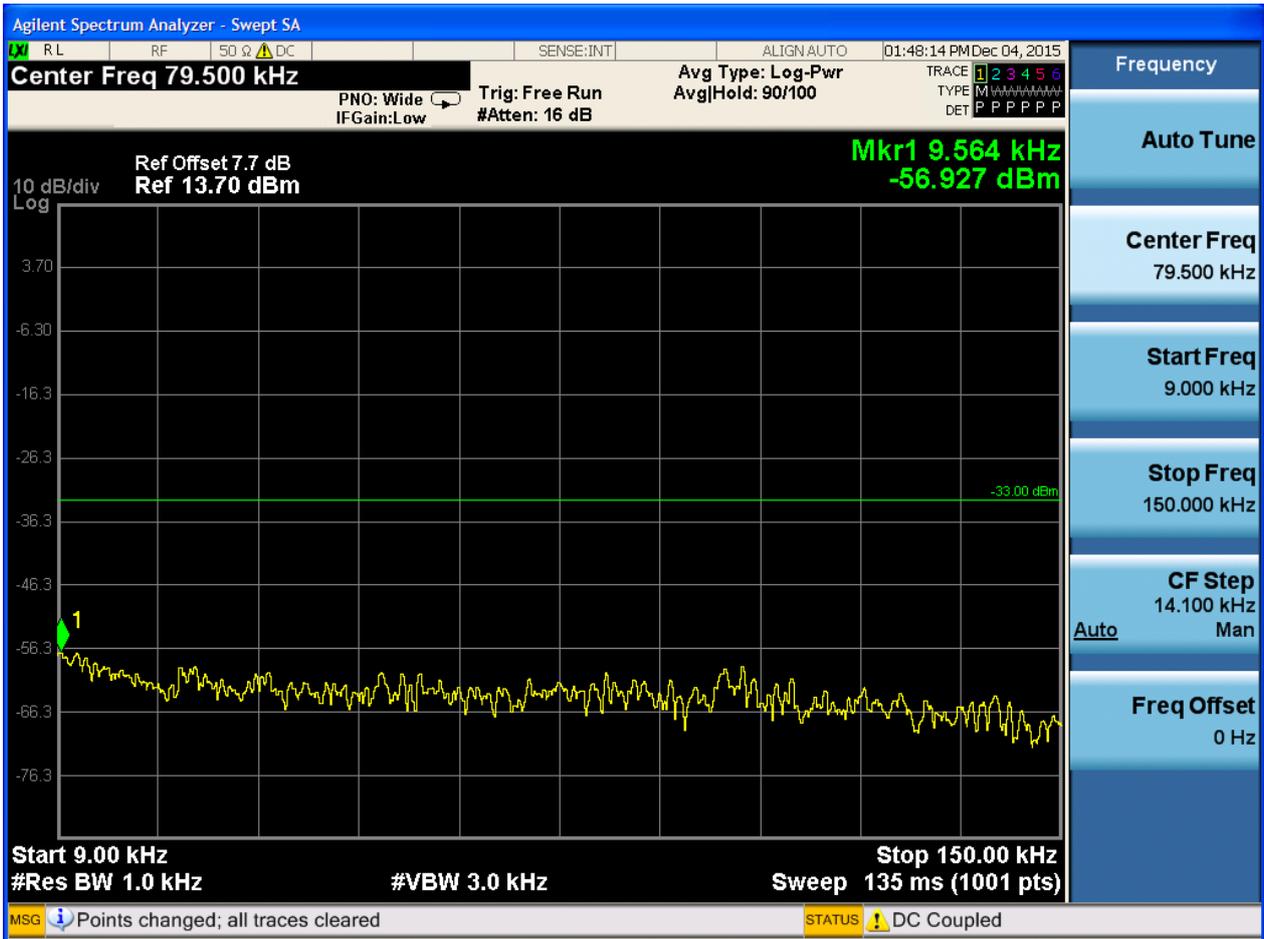




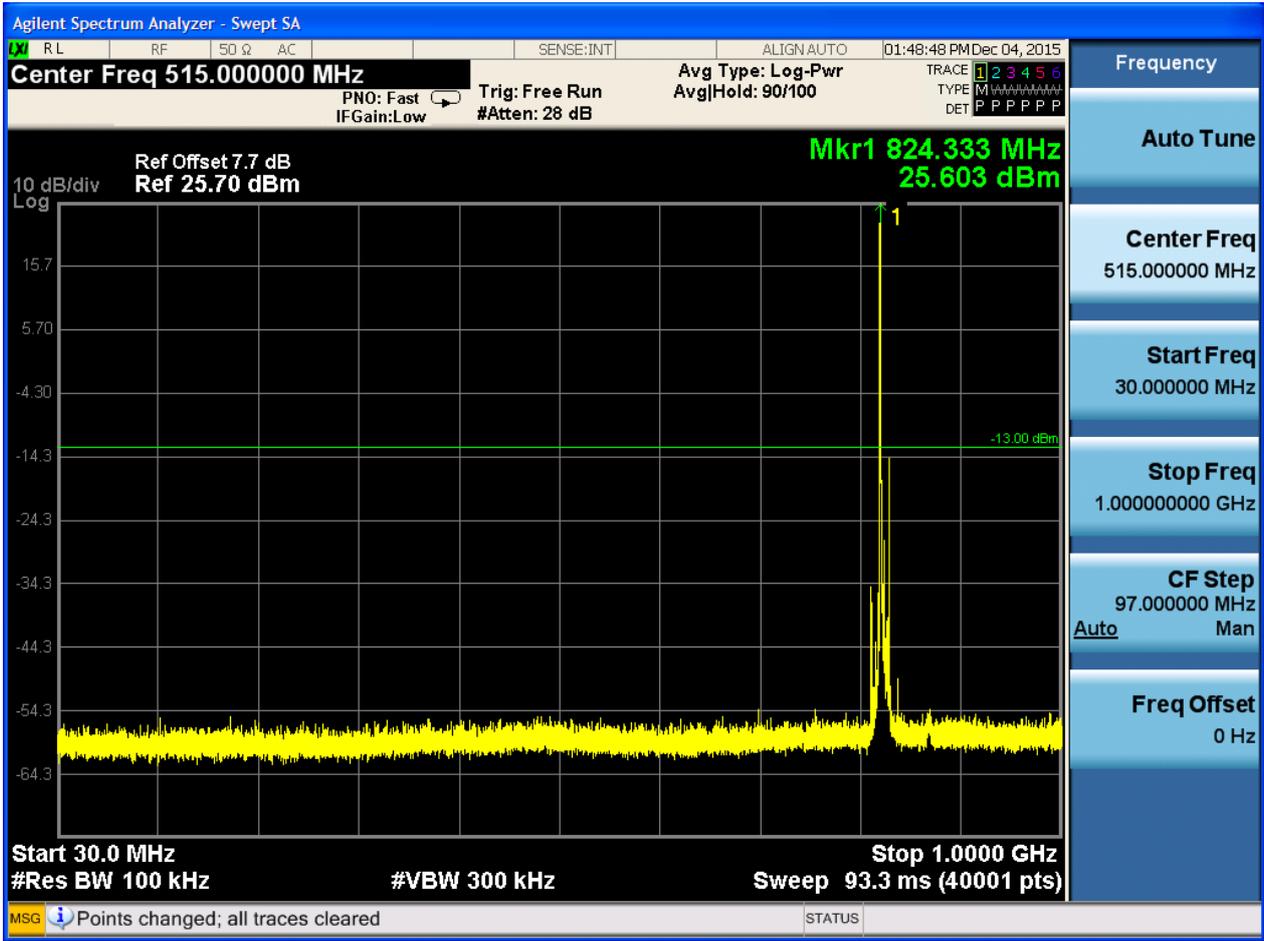
6.1.1.2.3 Test Bandwidth = 5

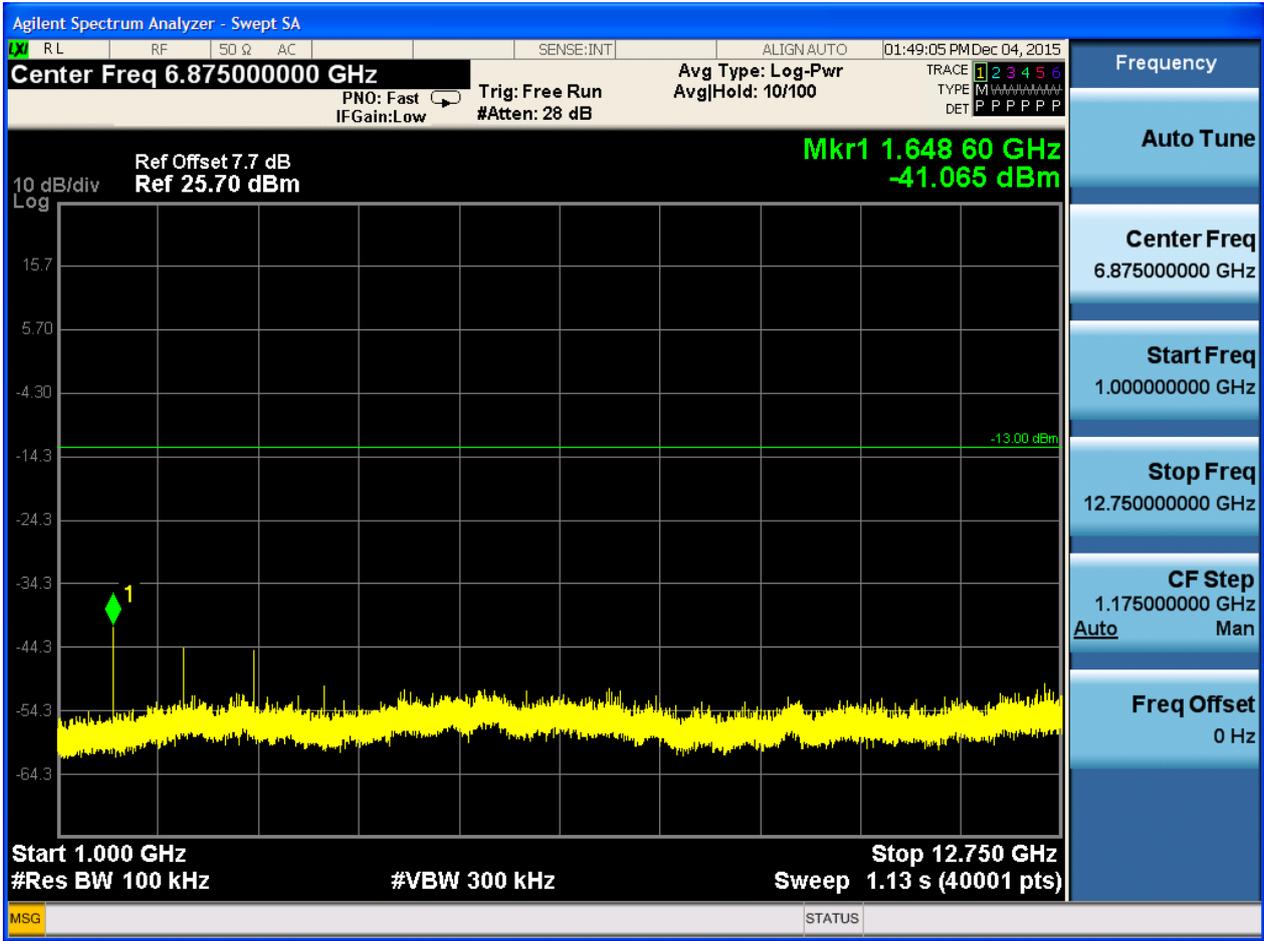
6.1.1.2.3.1 Test Channel = LCH

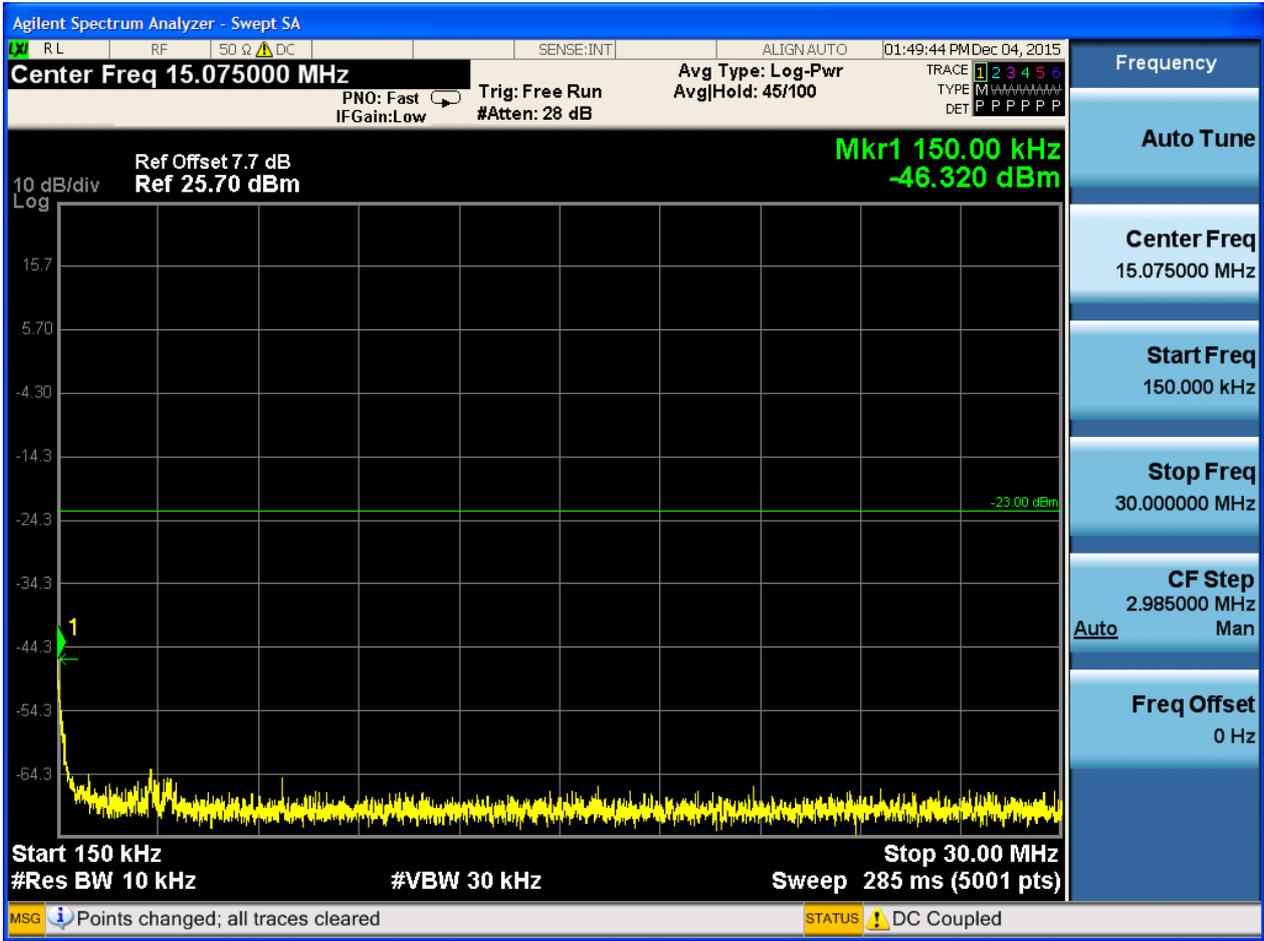
6.1.1.2.3.1.1 Test RB = RB1#0

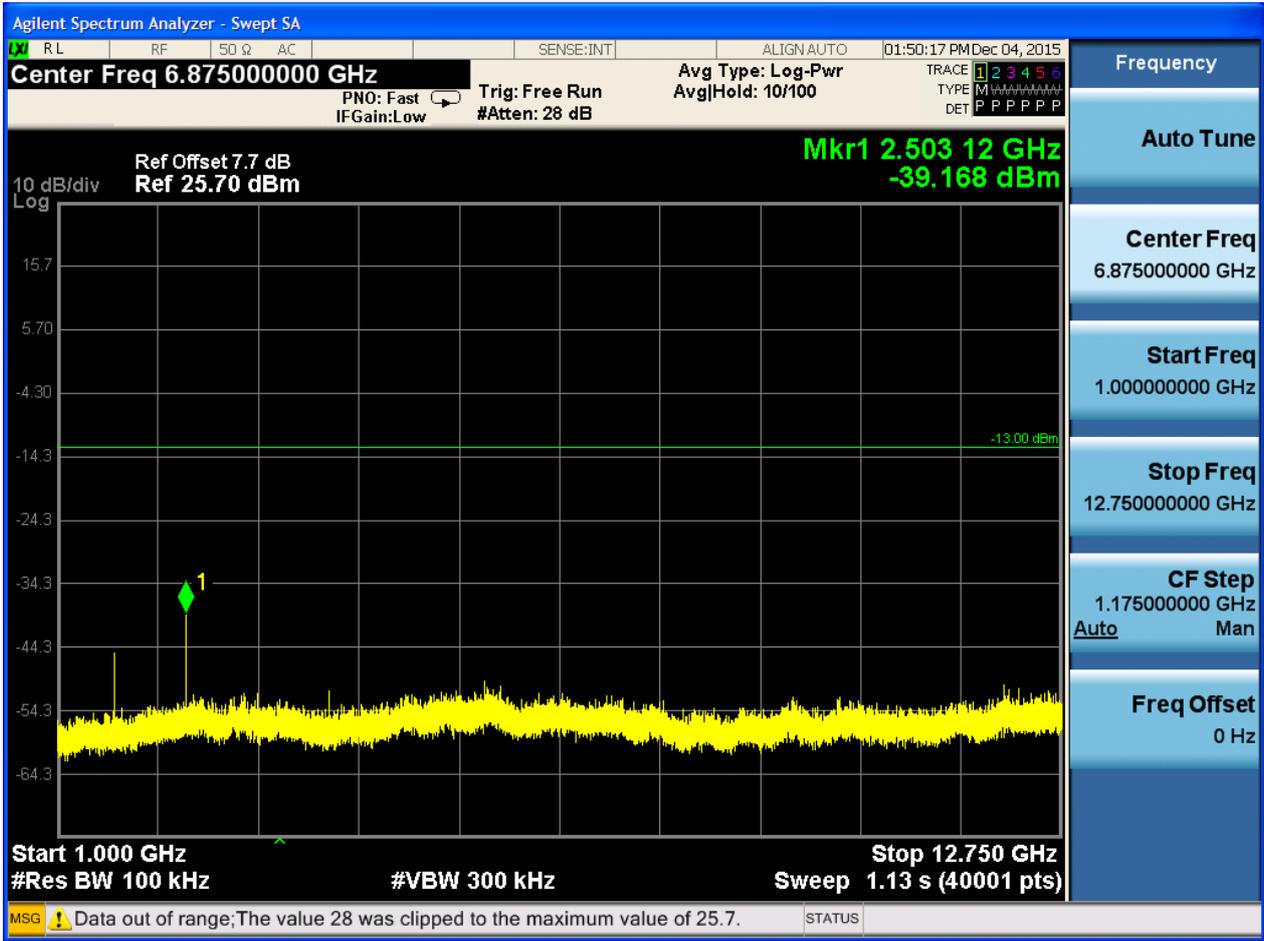






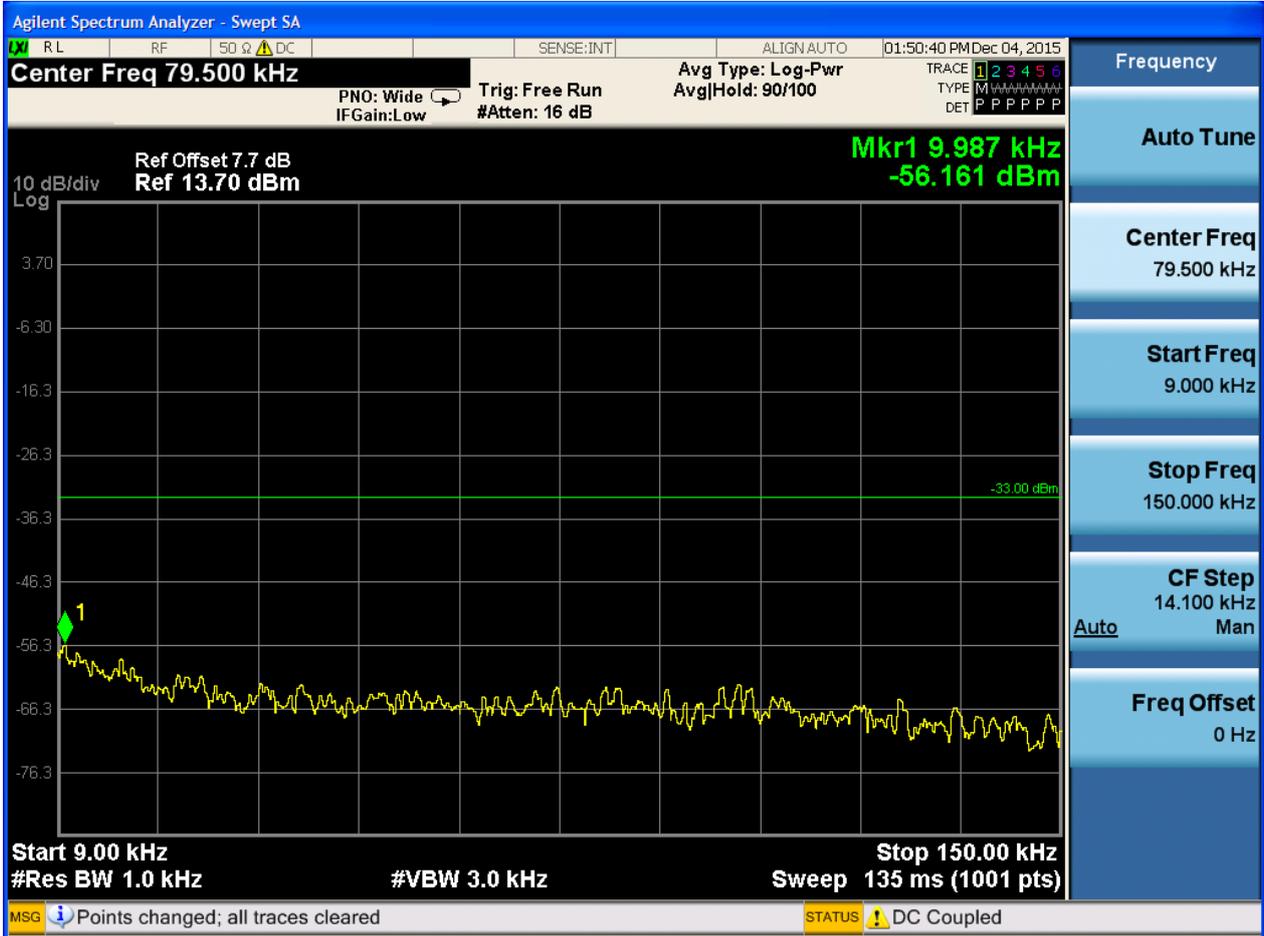




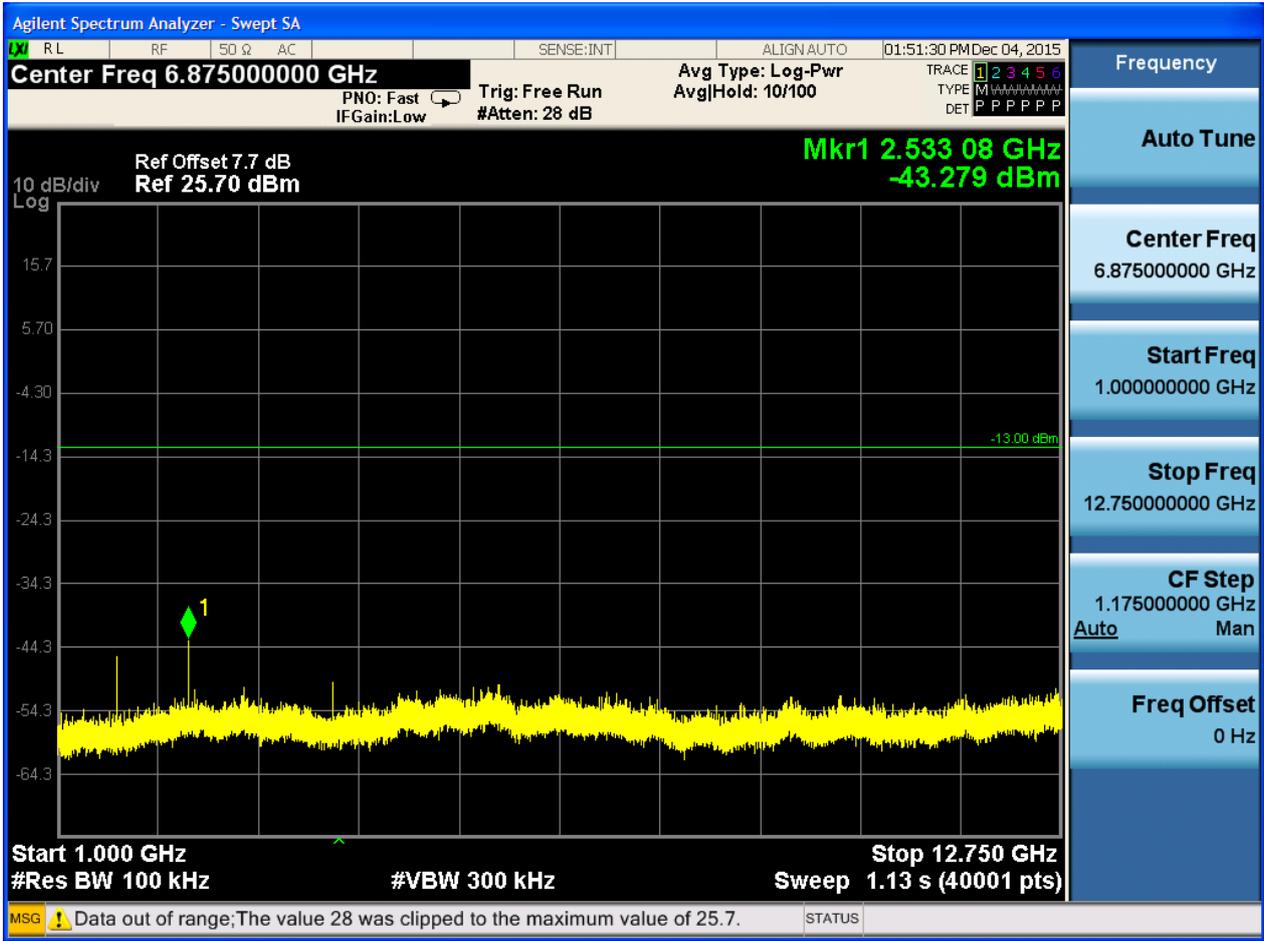


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





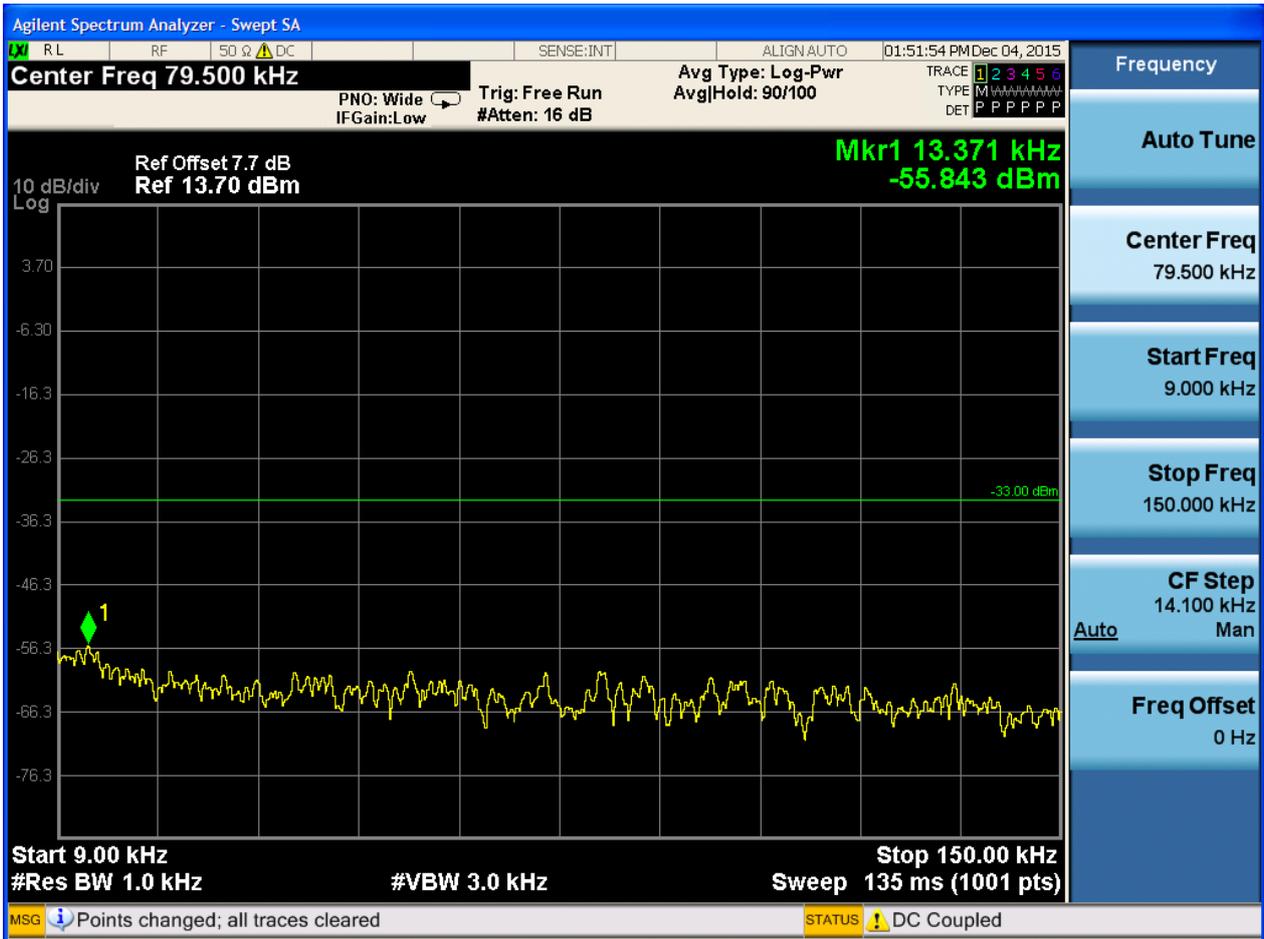


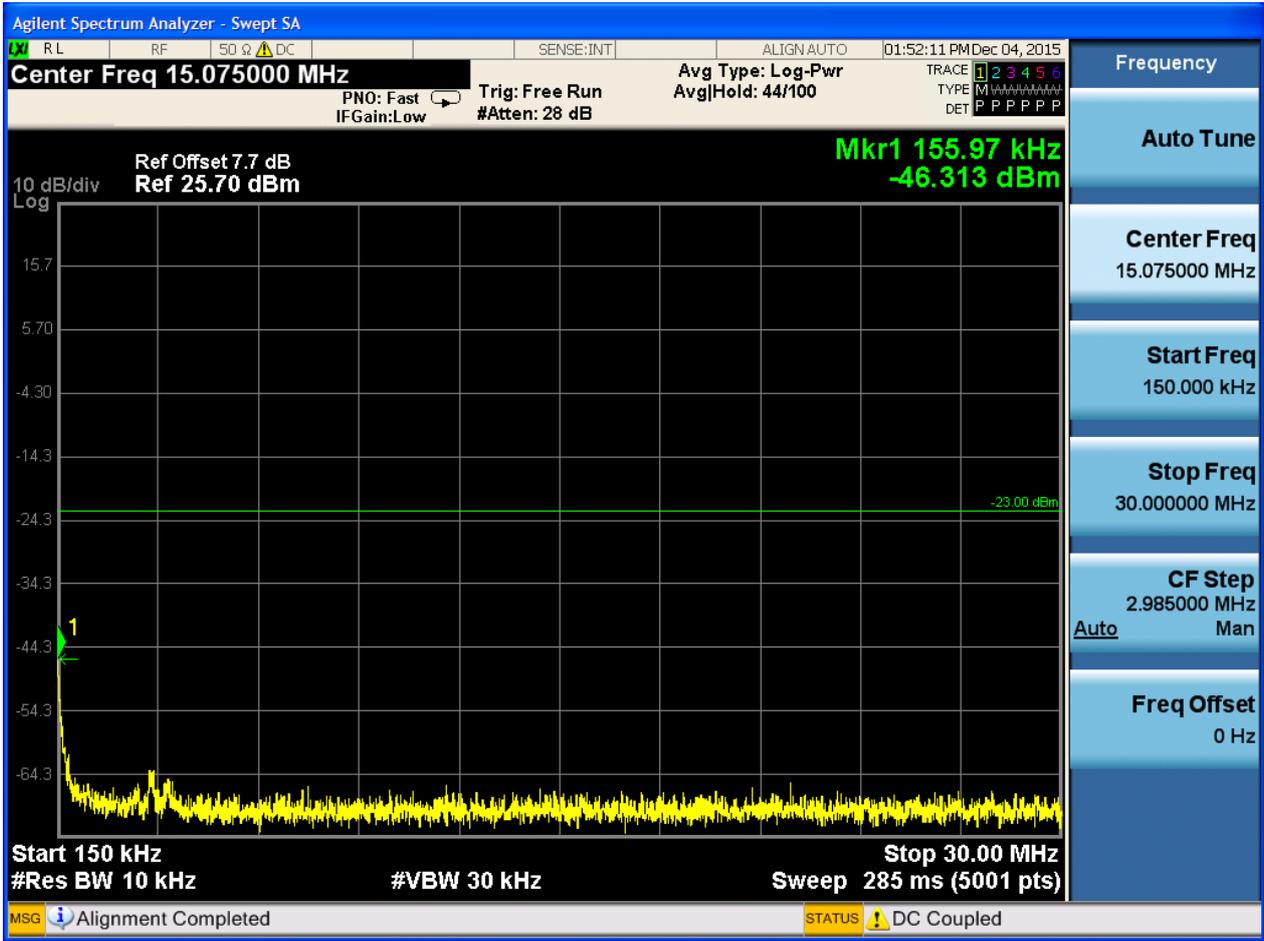


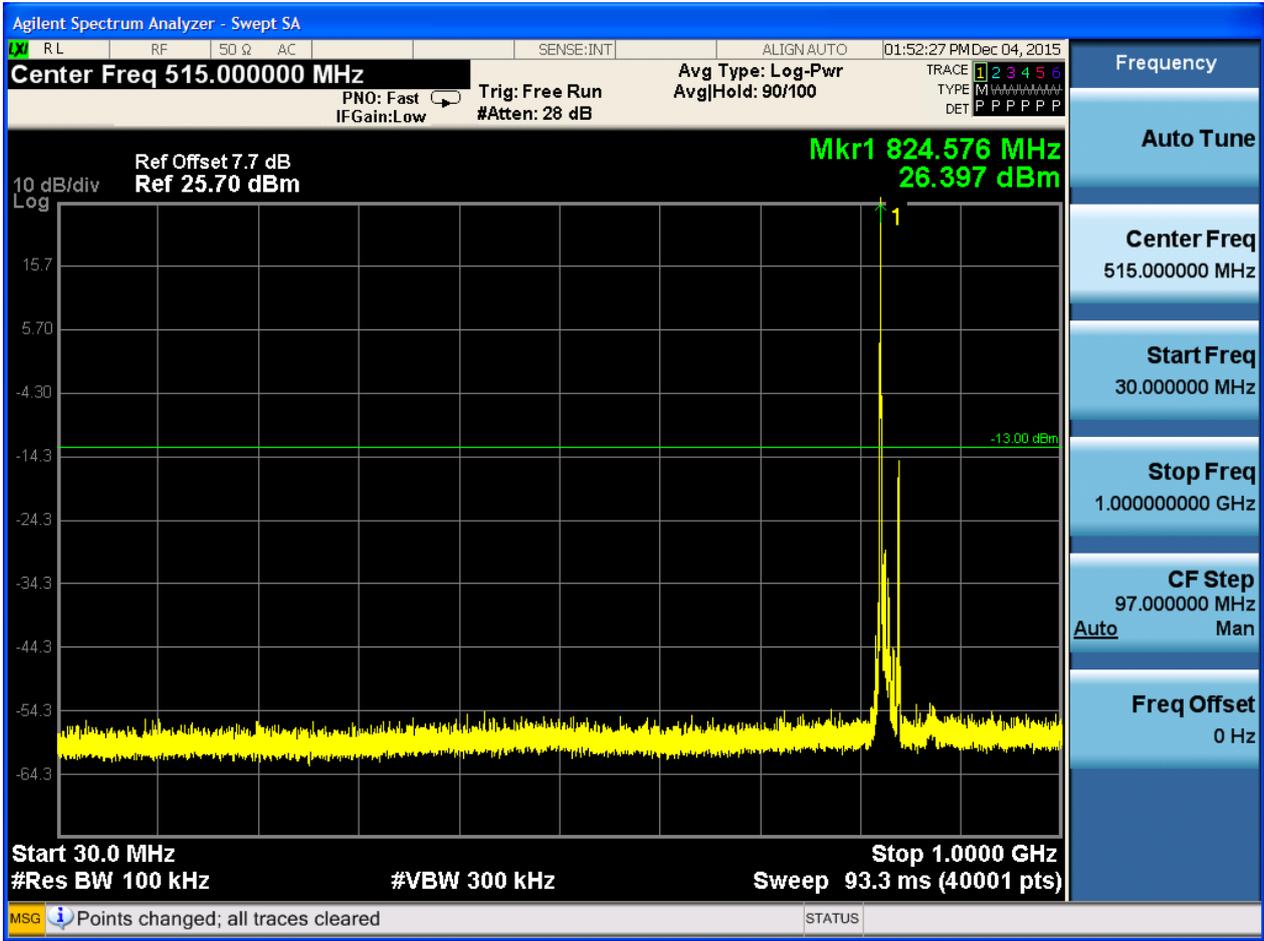
6.1.1.2.4 Test Bandwidth = 10

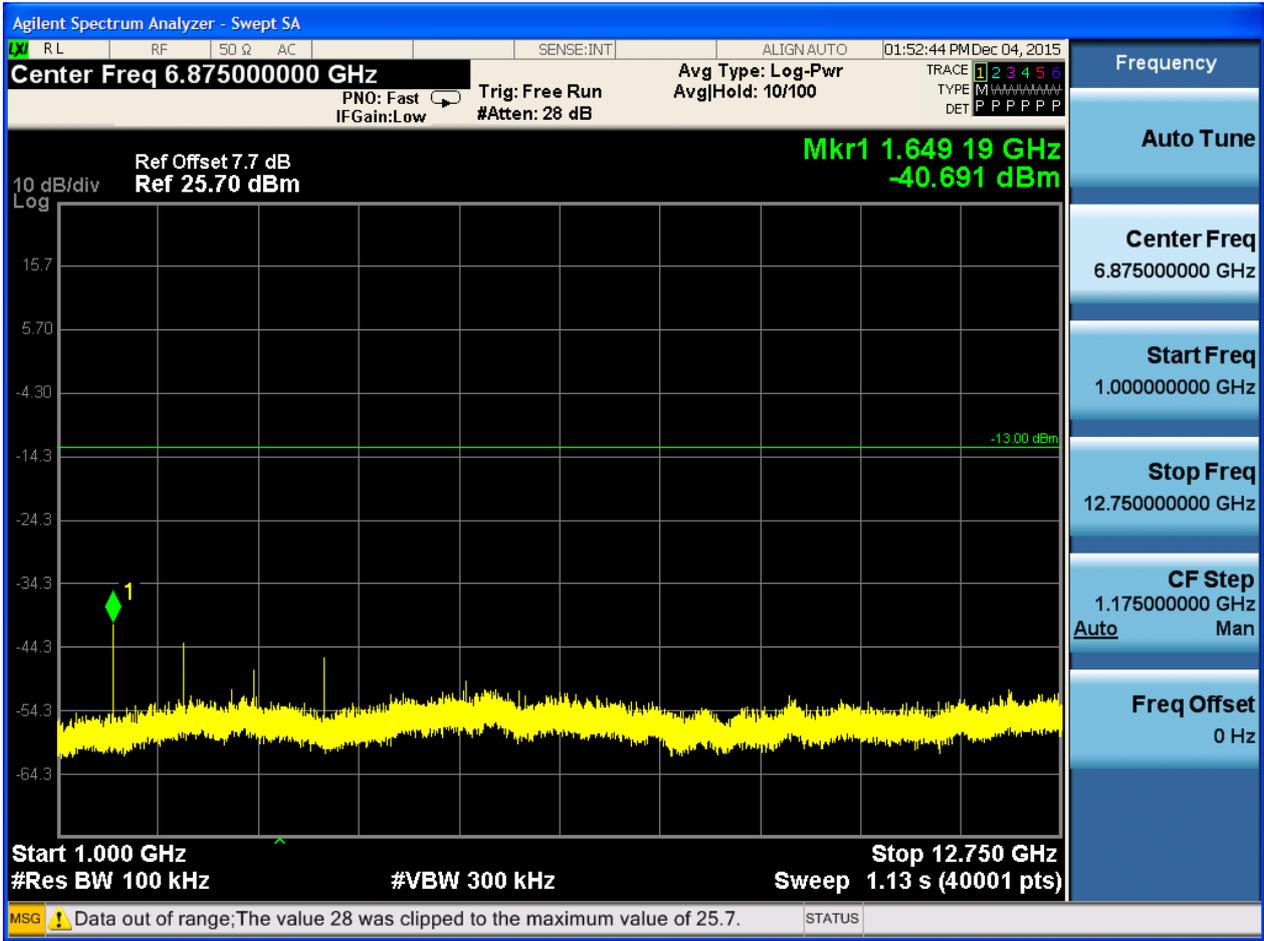
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





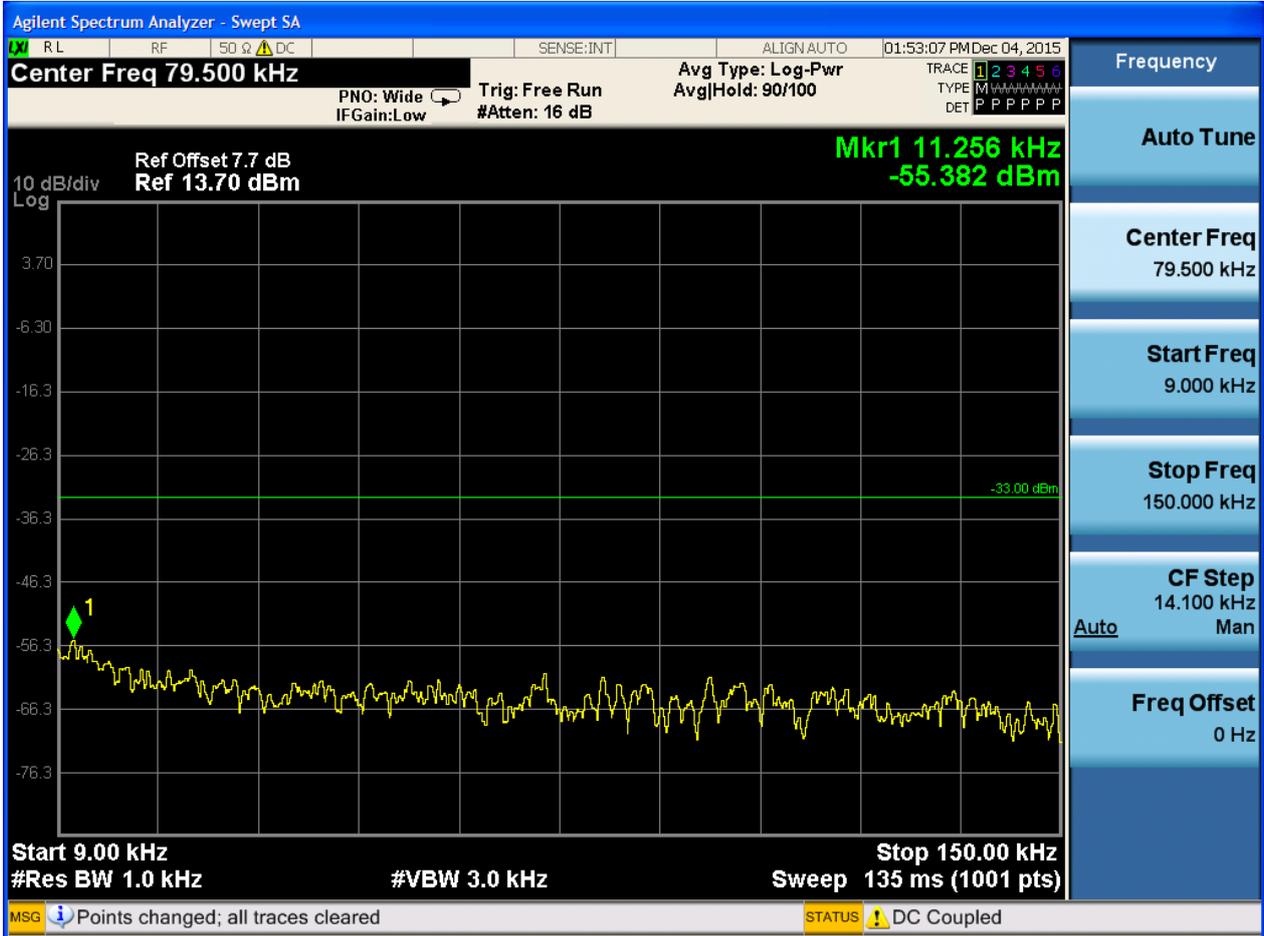


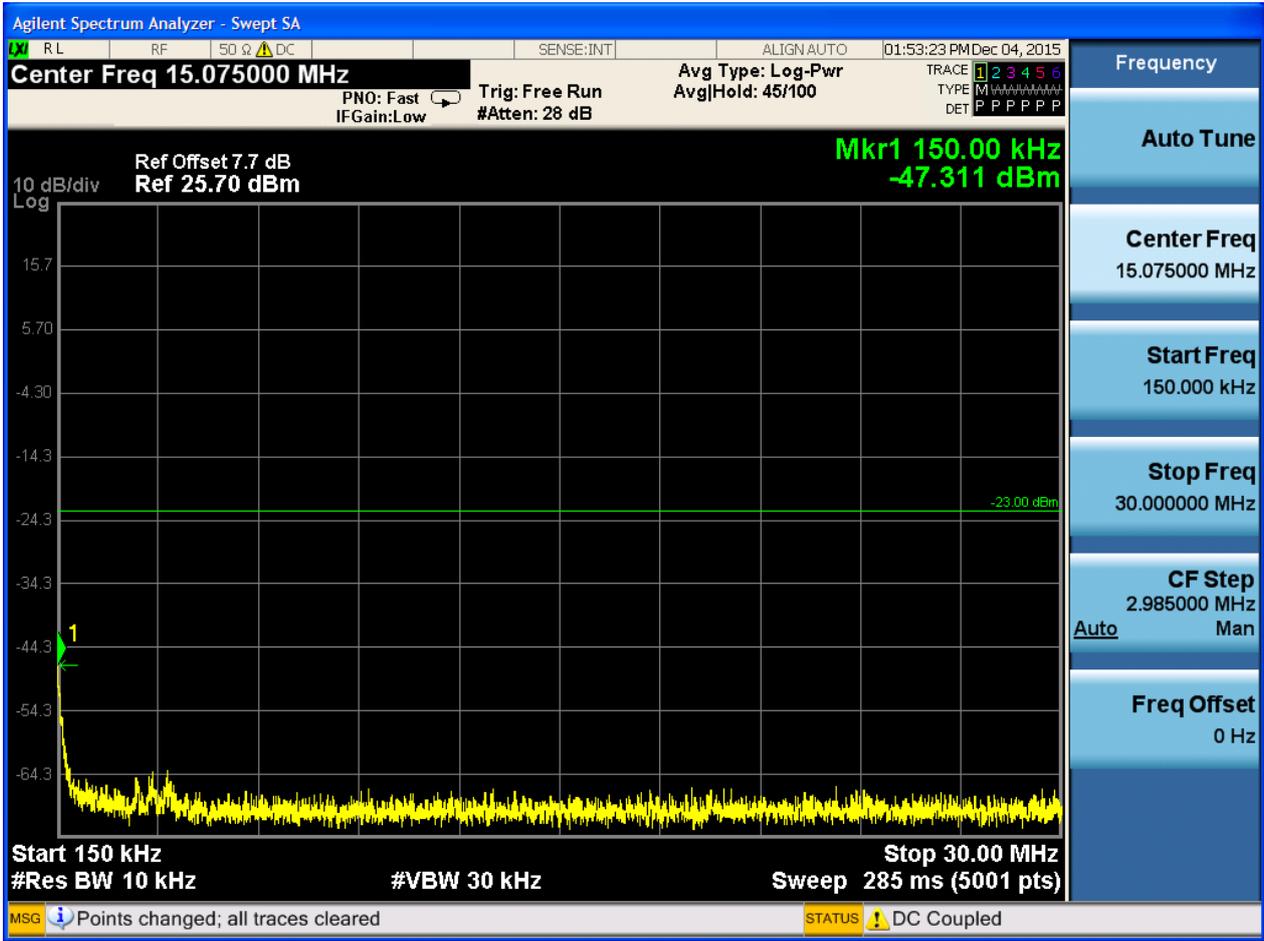


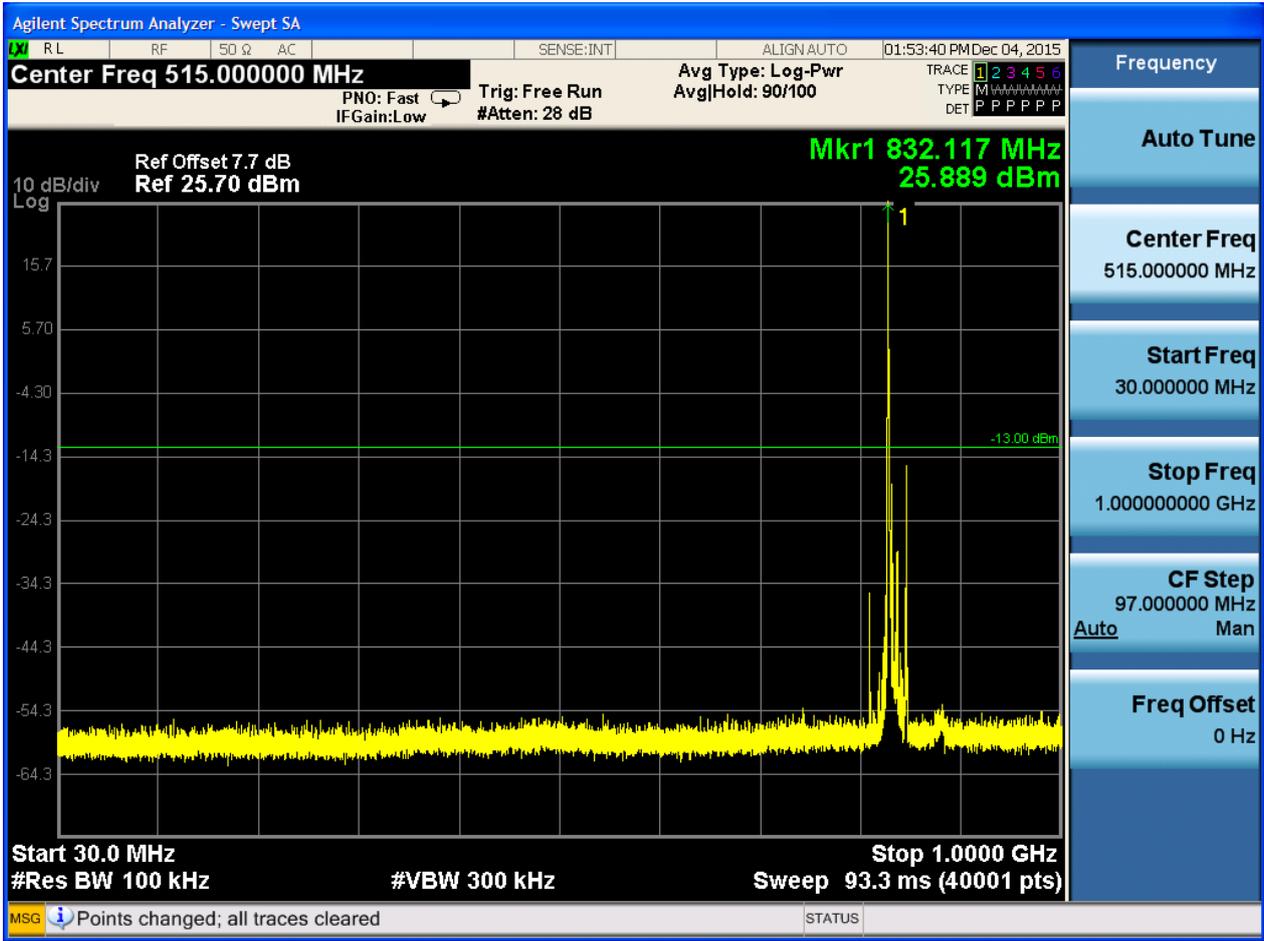


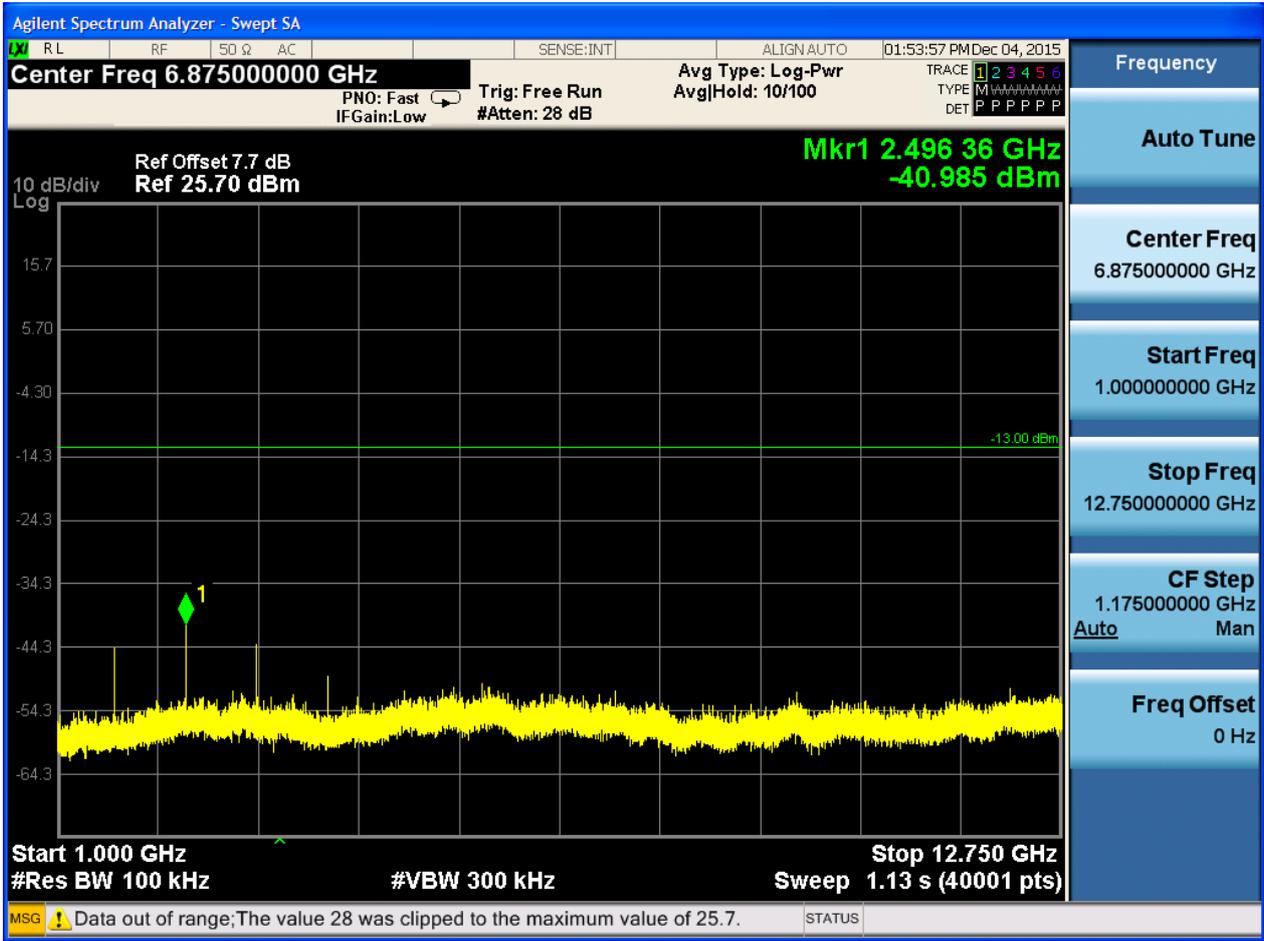
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0





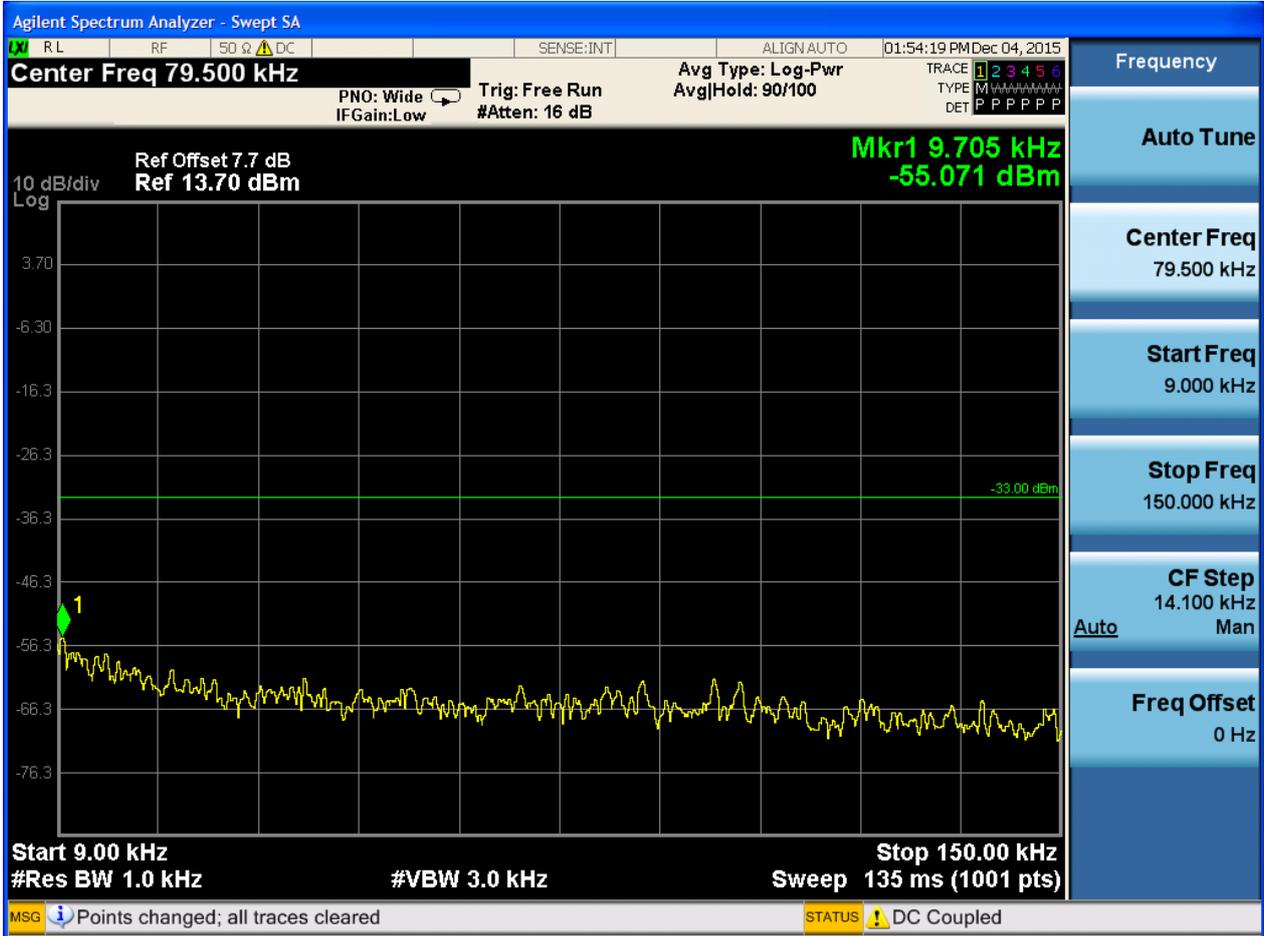




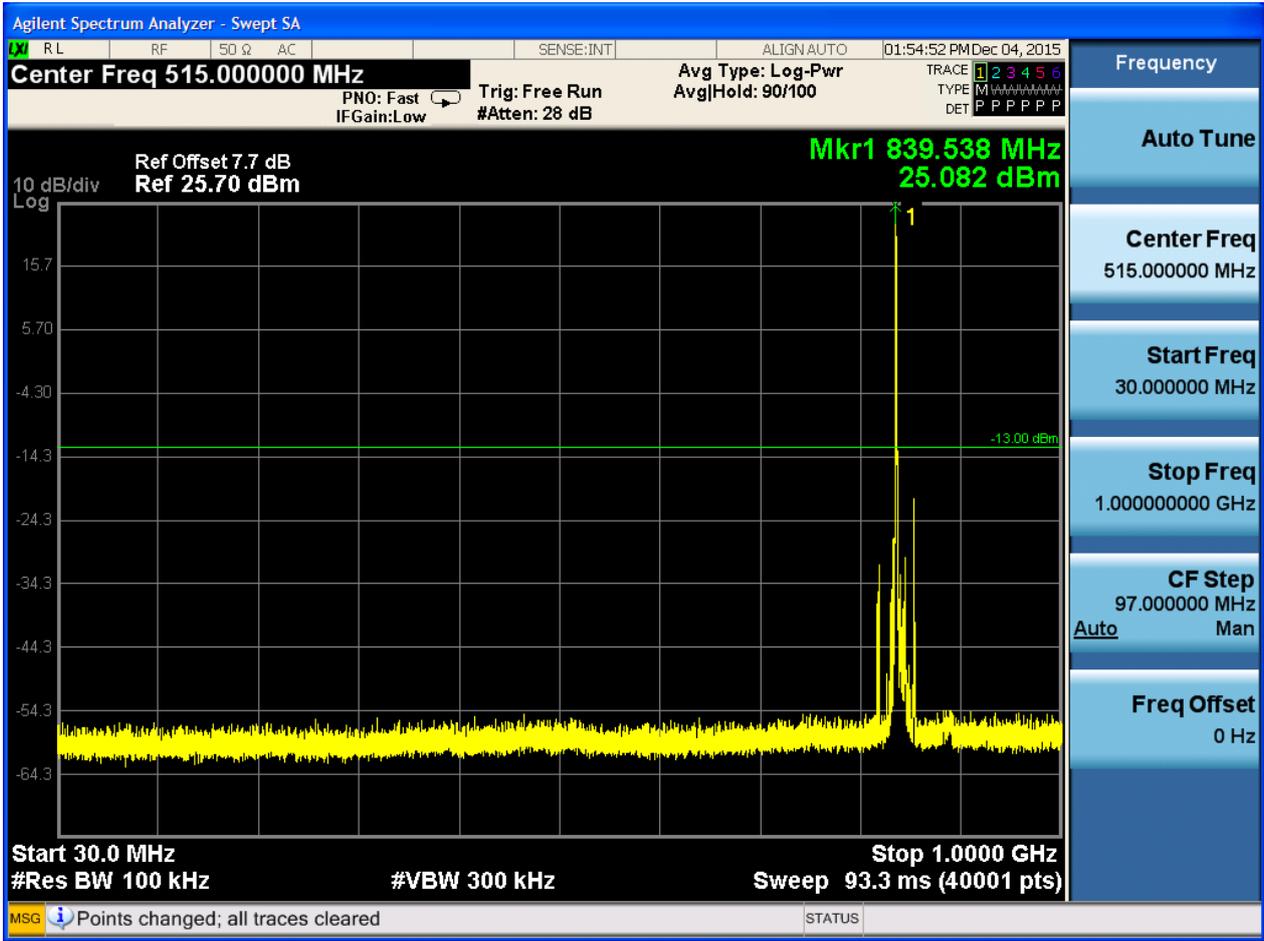


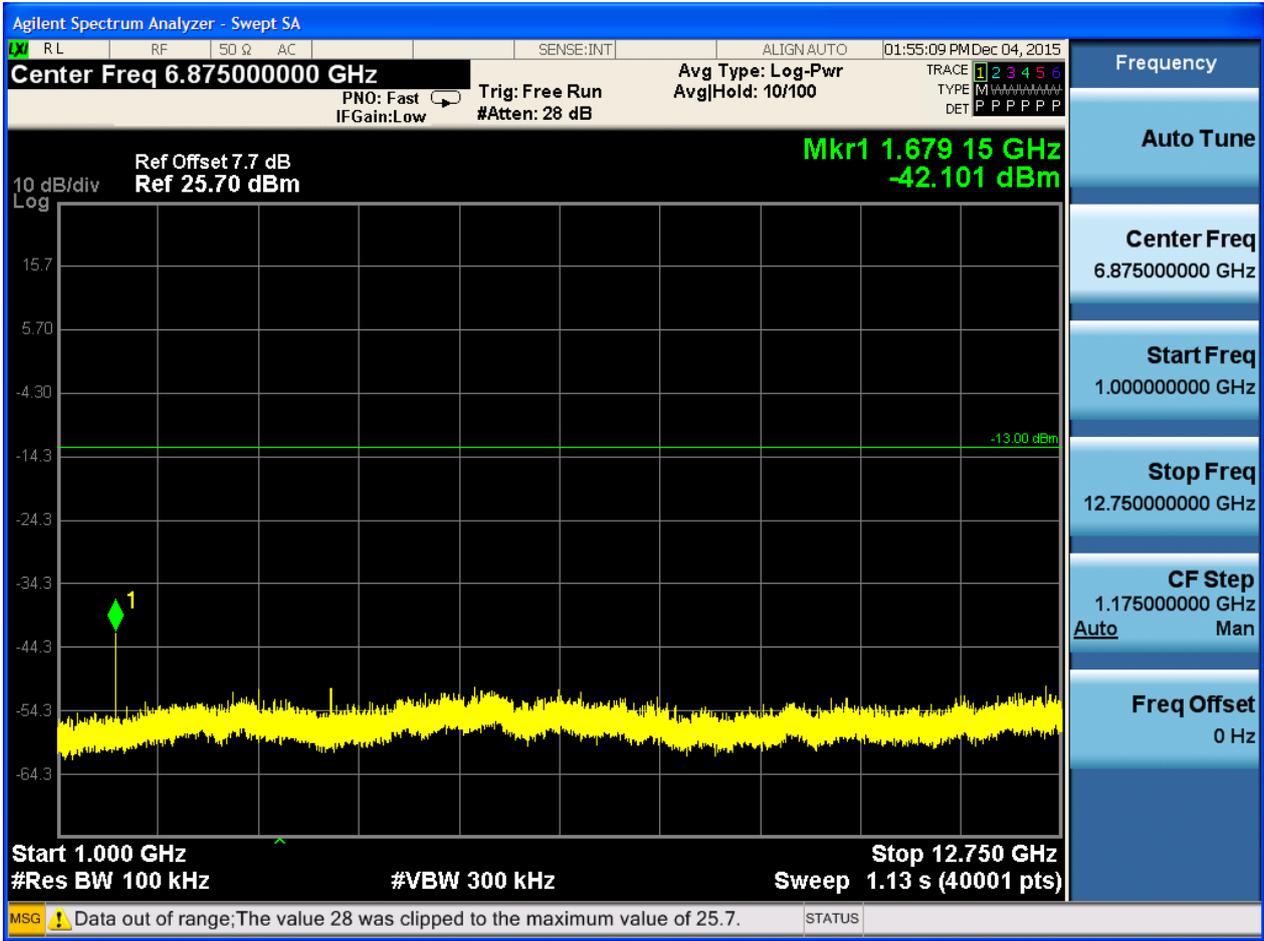
6.1.1.2.4.3 Test Channel = HCH

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

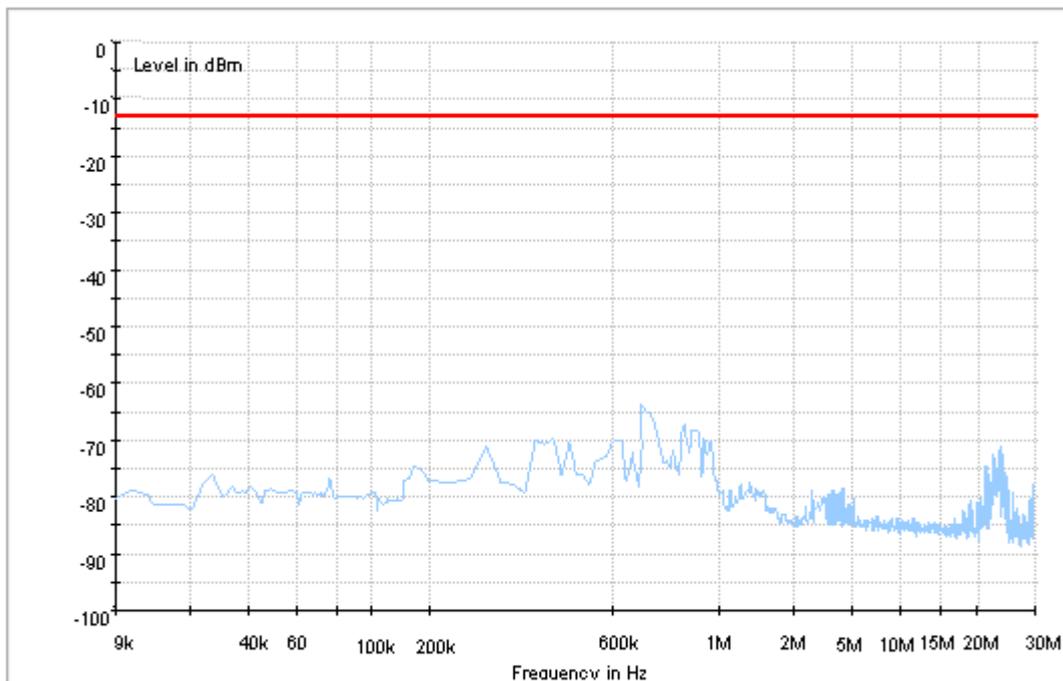
We tested all modes, but the data presented below is the worst case.

Part I - Test Plots

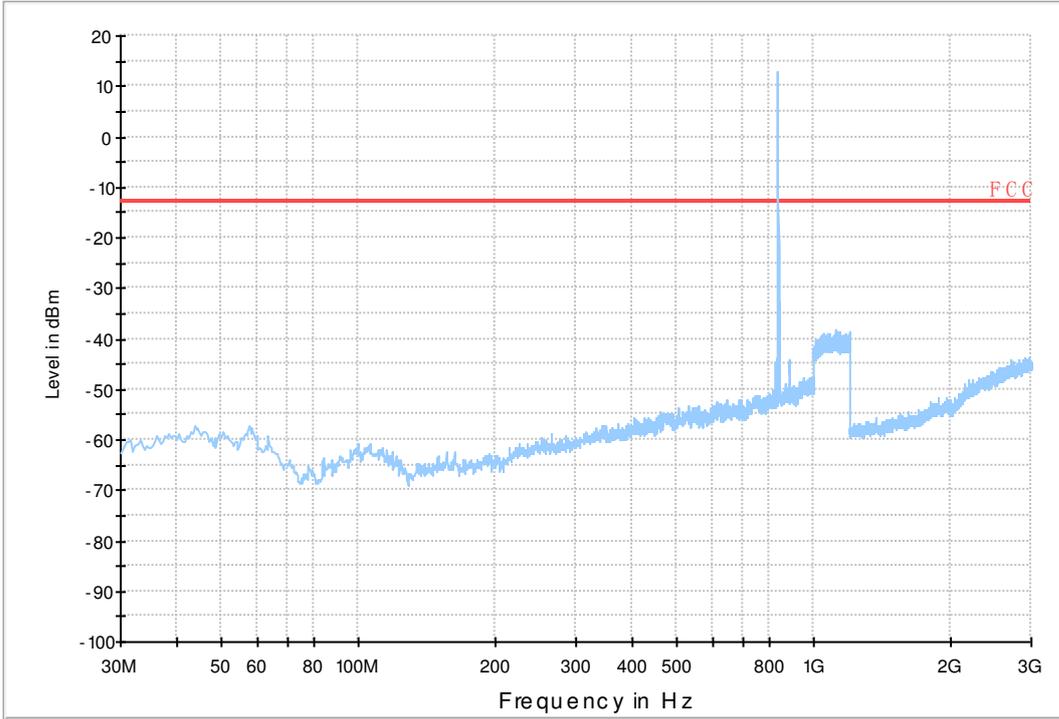
7.1 For LTE

7.1.1 Test Band = BAND5

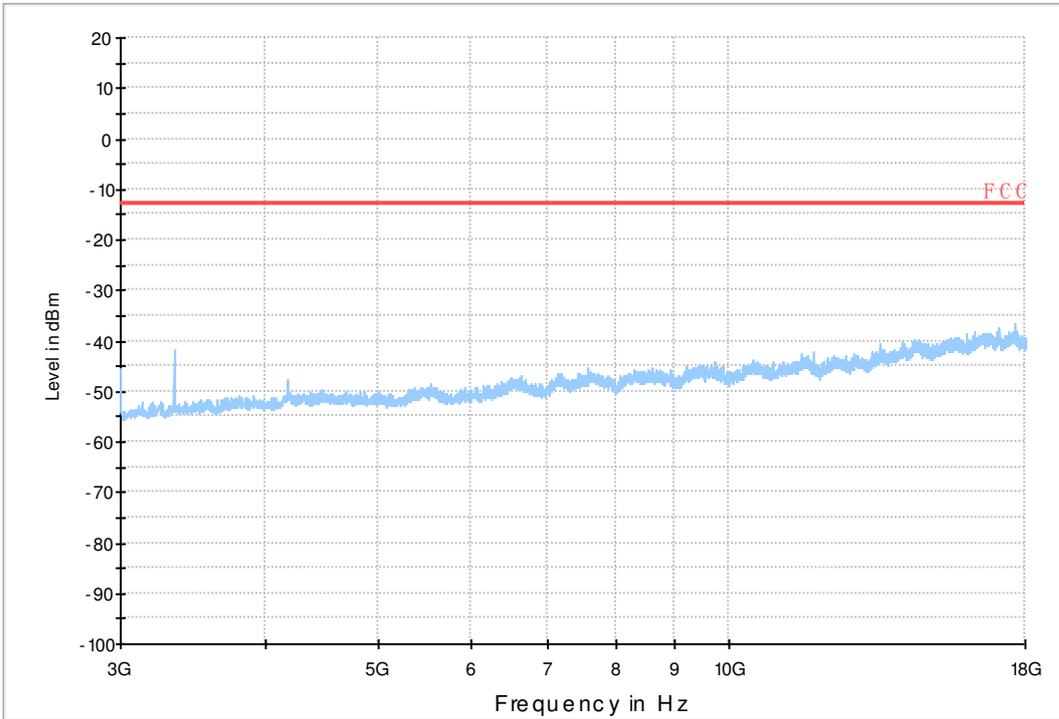
7.1.1.1 Test Bandwidth = 1.4



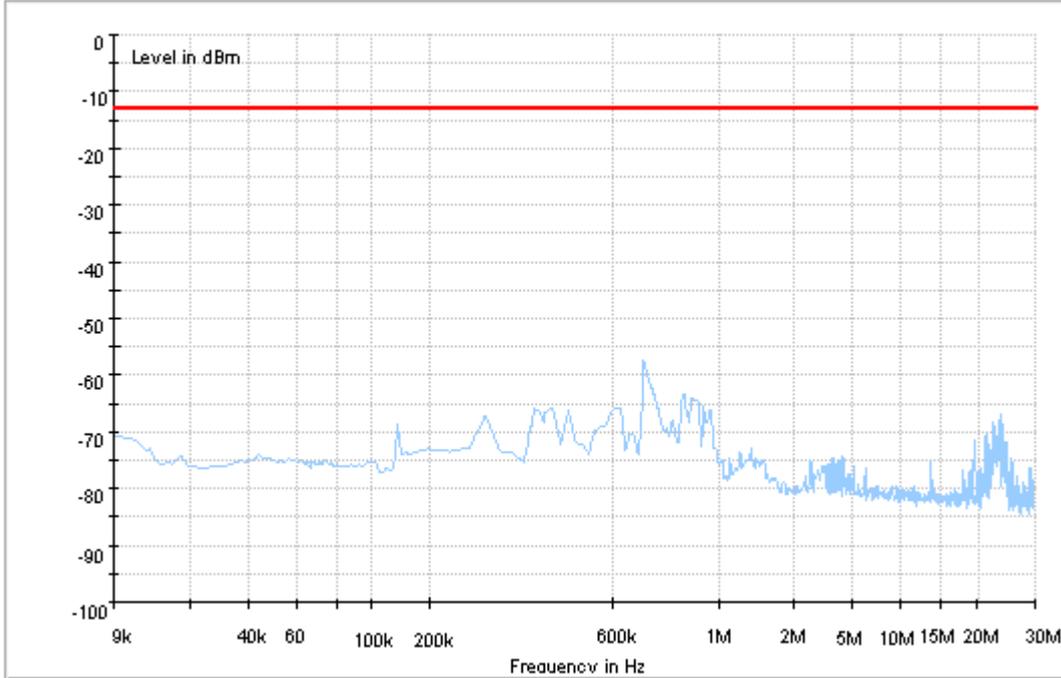
Copy of RSE-TX-DIRECTOR BELOW 1G_L



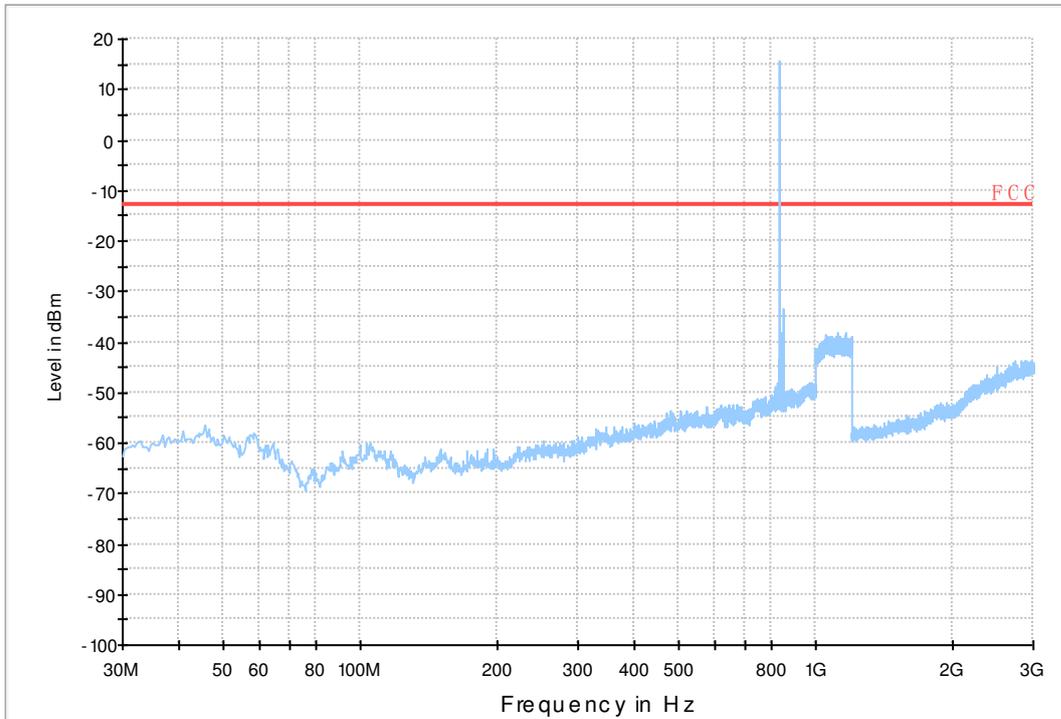
Copy of RSE-TX-DIRECTOR BELOW 1G_H



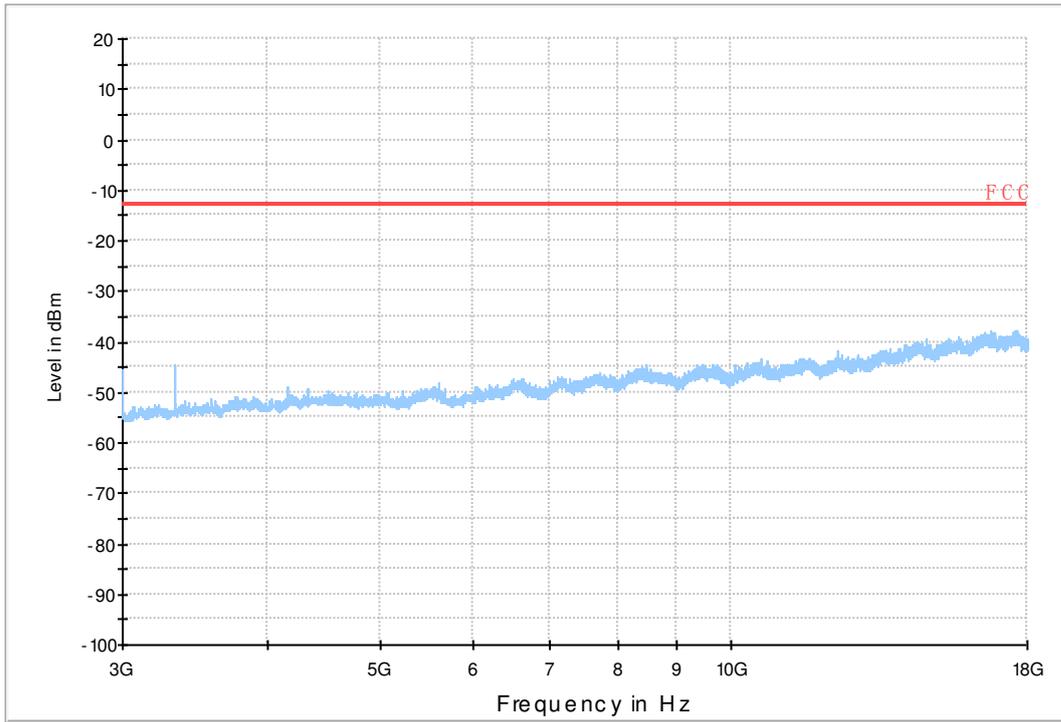
7.1.1.3 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency 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	-1.1	-0.00133	PASS
					VN	2.33	0.00283	PASS
					VH	1.67	0.00202	PASS
			MCH	TN	VL	-0.21	-0.00025	PASS
					VN	1.13	0.00135	PASS
					VH	1.16	0.00139	PASS
			HCH	TN	VL	3.48	0.0041	PASS
					VN	12.59	0.01484	PASS
					VH	6.04	0.00712	PASS
		3	LCH	TN	VL	2.93	0.00355	PASS
					VN	3.29	0.00399	PASS
					VH	2.02	0.00245	PASS
			MCH	TN	VL	-1.67	-0.002	PASS
					VN	-0.16	-0.00019	PASS
					VH	1.33	0.00159	PASS
			HCH	TN	VL	0.26	0.00031	PASS
					VN	5.15	0.00608	PASS
					VH	0.66	0.00078	PASS
		5	LCH	TN	VL	1.19	0.00144	PASS
					VN	3.02	0.00365	PASS
					VH	2.05	0.00248	PASS
			MCH	TN	VL	0.53	0.00063	PASS
					VN	0.23	0.00027	PASS
					VH	1.14	0.00136	PASS
			HCH	TN	VL	7.71	0.00911	PASS
					VN	-32.86	-0.03882	PASS
					VH	-10.81	-0.01277	PASS
10	LCH	TN	VL	0.41	0.00049	PASS		
			VN	-1.17	-0.00141	PASS		
			VH	-4.01	-0.00484	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2		MCH	TN	VL	-25.19	-0.03011	PASS
					VN	4.76	0.00569	PASS
					VH	17.75	0.02122	PASS
			HCH	TN	VL	2.72	0.00322	PASS
					VN	4.03	0.00477	PASS
					VH	2.75	0.00326	PASS
		1.4	LCH	TN	VL	2.43	0.00295	PASS
					VN	1.75	0.00212	PASS
					VH	0.06	0.00007	PASS
			MCH	TN	VL	2.37	0.00283	PASS
					VN	2.2	0.00263	PASS
					VH	2.25	0.00269	PASS
			HCH	TN	VL	3.71	0.00437	PASS
					VN	-3.66	-0.00431	PASS
					VH	3.05	0.0036	PASS
		3	LCH	TN	VL	2.99	0.00362	PASS
					VN	4.22	0.00511	PASS
					VH	4.19	0.00508	PASS
			MCH	TN	VL	2.2	0.00263	PASS
					VN	0.97	0.00116	PASS
					VH	0.97	0.00116	PASS
			HCH	TN	VL	-11.93	-0.01408	PASS
					VN	-3.72	-0.00439	PASS
					VH	2.19	0.00258	PASS
		5	LCH	TN	VL	0.69	0.00083	PASS
					VN	1.54	0.00186	PASS
					VH	0.76	0.00092	PASS
			MCH	TN	VL	0.49	0.00059	PASS
					VN	2.46	0.00294	PASS
					VH	0.29	0.00035	PASS
			HCH	TN	VL	-4.23	-0.005	PASS
					VN	0.34	0.0004	PASS
					VH	-8.38	-0.0099	PASS
		10	LCH	TN	VL	3.32	0.004	PASS
					VN	-3.39	-0.00409	PASS
					VH	-2.43	-0.00293	PASS
			MCH	TN	VL	-8.43	-0.01008	PASS
					VN	-11.7	-0.01399	PASS
					VH	-0.03	-0.00004	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	1.13	0.00134	PASS
					VN	0.23	0.00027	PASS
					VH	-0.17	-0.0002	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	3.56	0.00432	PASS
					-20	3.95	0.00479	PASS
					-10	3.96	0.0048	PASS
					0	1.8	0.00218	PASS
					10	0.7	0.00085	PASS
					20	2.02	0.00245	PASS
					30	0.93	0.00113	PASS
					40	1.79	0.00217	PASS
					50	2.96	0.00359	PASS
			MCH	VN	-30	0.33	0.00039	PASS
					-20	2.68	0.0032	PASS
					-10	-0.53	-0.00063	PASS
					0	0.03	0.00004	PASS
					10	0.41	0.00049	PASS
					20	1.39	0.00166	PASS
					30	-1.39	-0.00166	PASS
					40	-1.42	-0.0017	PASS
					50	1.4	0.00167	PASS
		HCH	VN	-30	2.46	0.0029	PASS	
				-20	4.75	0.0056	PASS	
				-10	3.76	0.00443	PASS	
				0	-2.86	-0.00337	PASS	
				10	-3.16	-0.00373	PASS	
				20	-1.32	-0.00156	PASS	
				30	2.89	0.00341	PASS	
				40	0.84	0.00099	PASS	
				50	-1.46	-0.00172	PASS	
		3	LCH	VN	-30	0.62	0.00075	PASS
					-20	2.23	0.0027	PASS
					-10	0.8	0.00097	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					0	1.67	0.00202	PASS	
					10	3.49	0.00423	PASS	
					20	0.74	0.0009	PASS	
					30	-0.54	-0.00065	PASS	
					40	-0.04	-0.00005	PASS	
					50	1.19	0.00144	PASS	
			MCH	VN	-30	-0.49	-0.00059	PASS	
					-20	3.32	0.00397	PASS	
					-10	1.93	0.00231	PASS	
					0	2.85	0.00341	PASS	
					10	3.19	0.00381	PASS	
					20	-0.97	-0.00116	PASS	
					30	3.3	0.00395	PASS	
					40	0.43	0.00051	PASS	
			HCH	VN	-30	2.33	0.00275	PASS	
					-20	-0.41	-0.00048	PASS	
					-10	1.27	0.0015	PASS	
					0	0.29	0.00034	PASS	
					10	1.67	0.00197	PASS	
					20	-1.86	-0.00219	PASS	
					30	-0.92	-0.00109	PASS	
					40	-2.27	-0.00268	PASS	
			5	LCH	VN	-30	0.23	0.00028	PASS
						-20	1.23	0.00149	PASS
						-10	1.44	0.00174	PASS
						0	1.04	0.00126	PASS
						10	-1.24	-0.0015	PASS
						20	0.73	0.00088	PASS
						30	-1.3	-0.00157	PASS
						40	-0.07	-0.00008	PASS
						50	1	0.00121	PASS
						MCH	VN	-30	-0.1
			-20	1.03	0.00123			PASS	
			-10	1.27	0.00152			PASS	
			0	1.39	0.00166			PASS	
			10	1.26	0.00151			PASS	
			20	1.92	0.0023			PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	2.22	0.00265	PASS		
					40	1.33	0.00159	PASS		
					50	-0.89	-0.00106	PASS		
			HCH	VN	-30	0.64	0.00076	PASS		
					-20	-2.85	-0.00337	PASS		
					-10	-2.72	-0.00321	PASS		
					0	2.06	0.00243	PASS		
					10	-20.7	-0.02445	PASS		
					20	-0.46	-0.00054	PASS		
					30	-7.98	-0.00943	PASS		
					40	-0.56	-0.00066	PASS		
					50	0.77	0.00091	PASS		
					LCH	VN	-30	1.77	0.00214	PASS
							-20	-2.76	-0.00333	PASS
							-10	-2.1	-0.00253	PASS
		0	-1.47	-0.00177			PASS			
		10	-3.18	-0.00384			PASS			
		20	-4.55	-0.00549			PASS			
		30	-1.99	-0.0024			PASS			
		40	-1.04	-0.00125			PASS			
		50	-4.22	-0.00509			PASS			
		MCH	VN	-30	-18.74	-0.0224	PASS			
				-20	0.49	0.00059	PASS			
				-10	-2.7	-0.00323	PASS			
				0	-3.5	-0.00418	PASS			
				10	-1.5	-0.00179	PASS			
				20	2.3	0.00275	PASS			
				30	-3.23	-0.00386	PASS			
				40	1.33	0.00159	PASS			
		HCH	VN	50	-2.78	-0.00332	PASS			
				-30	2.23	0.00264	PASS			
				-20	-0.56	-0.00066	PASS			
				-10	1.4	0.00166	PASS			
				0	2.55	0.00302	PASS			
				10	-2.15	-0.00255	PASS			
				20	-3.72	-0.00441	PASS			
				30	-3.3	-0.00391	PASS			
		40	-1.32	-0.00156	PASS					
		50	0.97	0.00115	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	0.33	0.0004	PASS
					-20	2.29	0.00278	PASS
					-10	0.31	0.00038	PASS
					0	0.63	0.00076	PASS
					10	-2.05	-0.00249	PASS
					20	1.85	0.00224	PASS
					30	-1.83	-0.00222	PASS
					40	-1.22	-0.00148	PASS
					50	1.62	0.00196	PASS
			MCH	VN	-30	3.15	0.00377	PASS
					-20	0.06	0.00007	PASS
					-10	0.01	0.00001	PASS
					0	2.68	0.0032	PASS
					10	-1.04	-0.00124	PASS
					20	1.42	0.0017	PASS
					30	0.77	0.00092	PASS
					40	-0.11	-0.00013	PASS
					50	-0.63	-0.00075	PASS
			HCH	VN	-30	1.1	0.0013	PASS
					-20	-15.88	-0.01872	PASS
					-10	-11.53	-0.01359	PASS
					0	-4.01	-0.00473	PASS
					10	18.47	0.02177	PASS
					20	9.96	0.01174	PASS
		30			2.33	0.00275	PASS	
		40			-3.42	-0.00403	PASS	
		50			0.8	0.00094	PASS	
		3	LCH	VN	-30	3.42	0.00414	PASS
					-20	0.67	0.00081	PASS
					-10	4.03	0.00488	PASS
					0	2.99	0.00362	PASS
					10	-0.8	-0.00097	PASS
					20	0.16	0.00019	PASS
					30	1.1	0.00133	PASS
					40	-0.37	-0.00045	PASS
					50	-0.27	-0.00033	PASS
			MCH	VN	-30	1.46	0.00175	PASS
					-20	0.27	0.00032	PASS
					-10	0.59	0.00071	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict					
					0	1.1	0.00132	PASS					
					10	0.79	0.00094	PASS					
					20	1.29	0.00154	PASS					
					30	1.49	0.00178	PASS					
					40	1.62	0.00194	PASS					
					50	1.76	0.0021	PASS					
			HCH	VN	-30	-4.45	-0.00525	PASS					
					-20	2.68	0.00316	PASS					
					-10	0.62	0.00073	PASS					
					0	-1.62	-0.00191	PASS					
					10	-11.12	-0.01312	PASS					
					20	-4.55	-0.00537	PASS					
					30	-5.11	-0.00603	PASS					
					40	-6.98	-0.00824	PASS					
		LCH	VN	50	-6.32	-0.00746	PASS						
				-30	2.65	0.00321	PASS						
				-20	0.8	0.00097	PASS						
				-10	2.1	0.00254	PASS						
				0	1.47	0.00178	PASS						
				10	-2.33	-0.00282	PASS						
				20	-1.26	-0.00152	PASS						
				30	-0.62	-0.00075	PASS						
				40	0.77	0.00093	PASS						
				50	-1.9	-0.0023	PASS						
		MCH	VN	-30	2.86	0.00342	PASS						
				-20	3.45	0.00412	PASS						
				-10	2.15	0.00257	PASS						
				0	2.83	0.00338	PASS						
				10	2.09	0.0025	PASS						
				20	1.29	0.00154	PASS						
				30	0.73	0.00087	PASS						
				40	1.67	0.002	PASS						
		HCH	VN	50	1.52	0.00182	PASS						
				-30	-5.79	-0.00684	PASS						
				-20	-7.34	-0.00867	PASS						
				-10	-1.03	-0.00122	PASS						
				0	3.29	0.00389	PASS						
				10	-3.22	-0.0038	PASS						
										20	-0.3	-0.00035	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	3.69	0.00436	PASS		
					40	-4.03	-0.00476	PASS		
					50	2.22	0.00262	PASS		
		10	LCH	VN	-30	3.3	0.00398	PASS		
					-20	-1.37	-0.00165	PASS		
					-10	-2.12	-0.00256	PASS		
					0	-1.27	-0.00153	PASS		
					10	-0.79	-0.00095	PASS		
					20	-3.18	-0.00384	PASS		
					30	0.84	0.00101	PASS		
					40	-1.7	-0.00205	PASS		
					50	-1.17	-0.00141	PASS		
					MCH	VN	-30	29.35	0.03509	PASS
							-20	-3.55	-0.00424	PASS
							-10	2.57	0.00307	PASS
							0	24.75	0.02959	PASS
							10	12.92	0.01545	PASS
							20	7.51	0.00898	PASS
		30	-6.68	-0.00799			PASS			
		40	0.67	0.0008			PASS			
		HCH	VN	-30	0.87	0.00103	PASS			
				-20	-0.07	-0.00008	PASS			
				-10	1.75	0.00207	PASS			
				0	0.67	0.00079	PASS			
				10	-2.17	-0.00257	PASS			
				20	0.4	0.00047	PASS			
				30	-3.42	-0.00405	PASS			
				40	4.23	0.00501	PASS			
		50	1.23	0.00146	PASS					

END