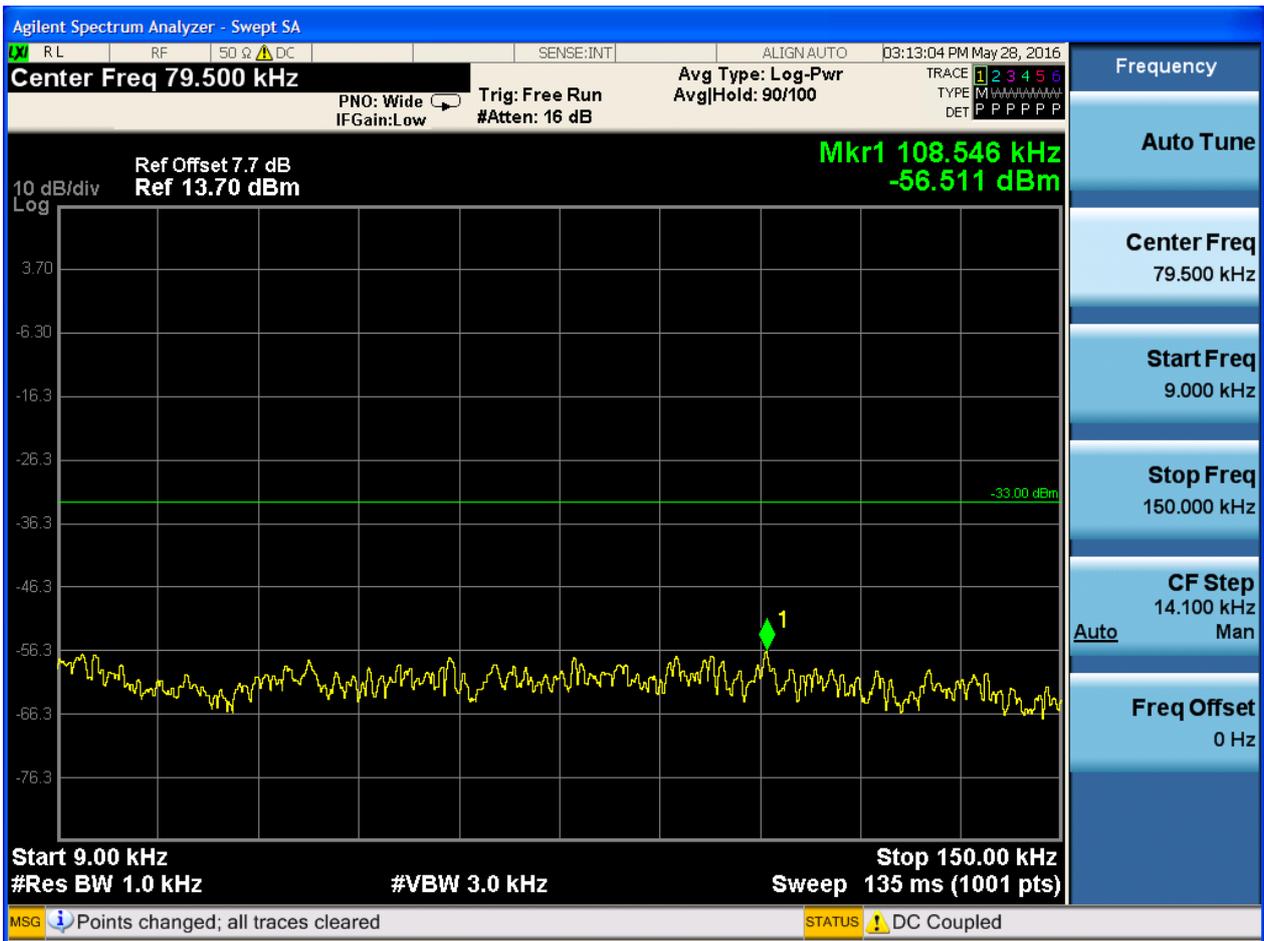


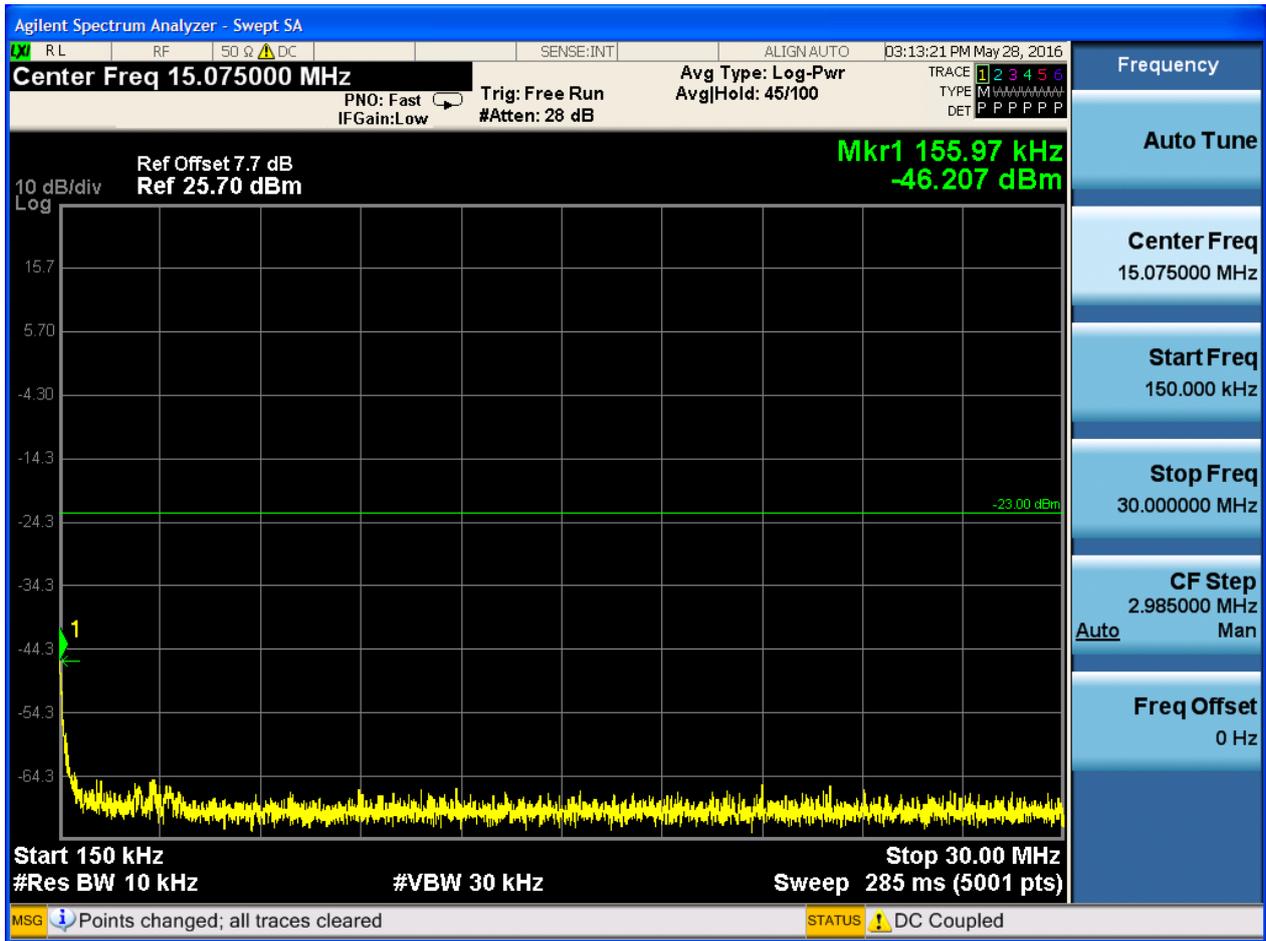


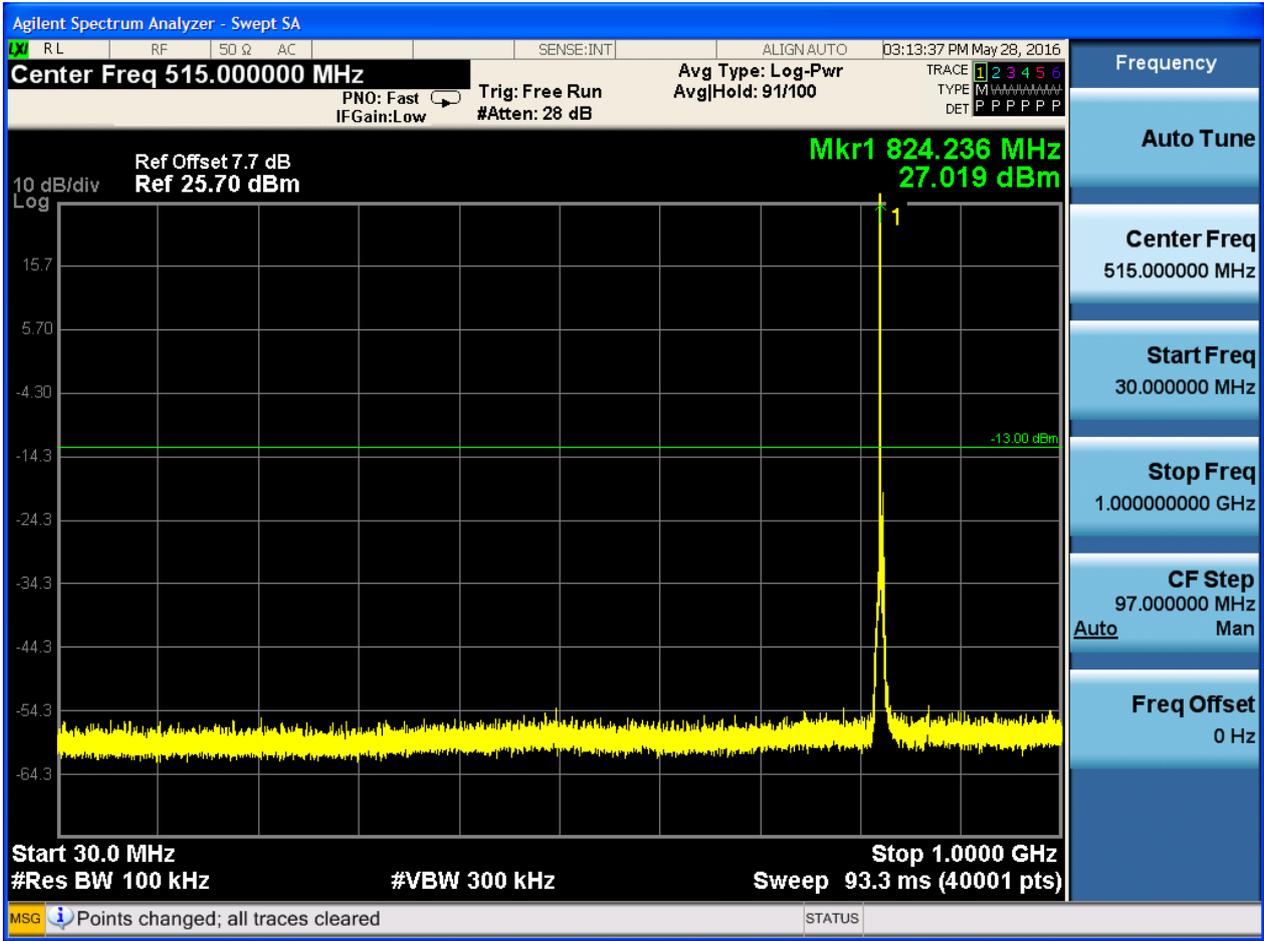
6.1.2.1.2 Test Bandwidth = 3

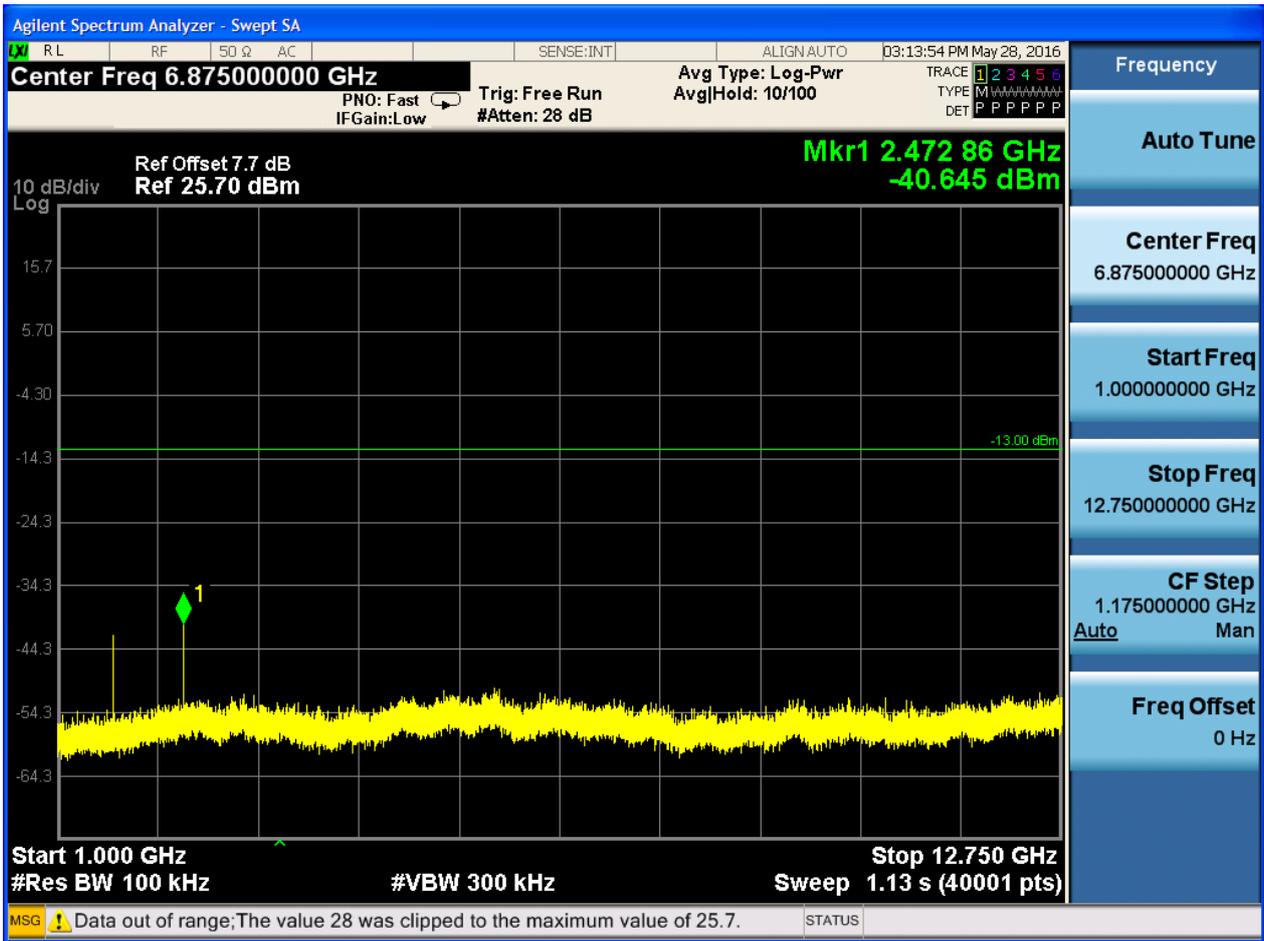
6.1.2.1.2.1 Test Channel = LCH

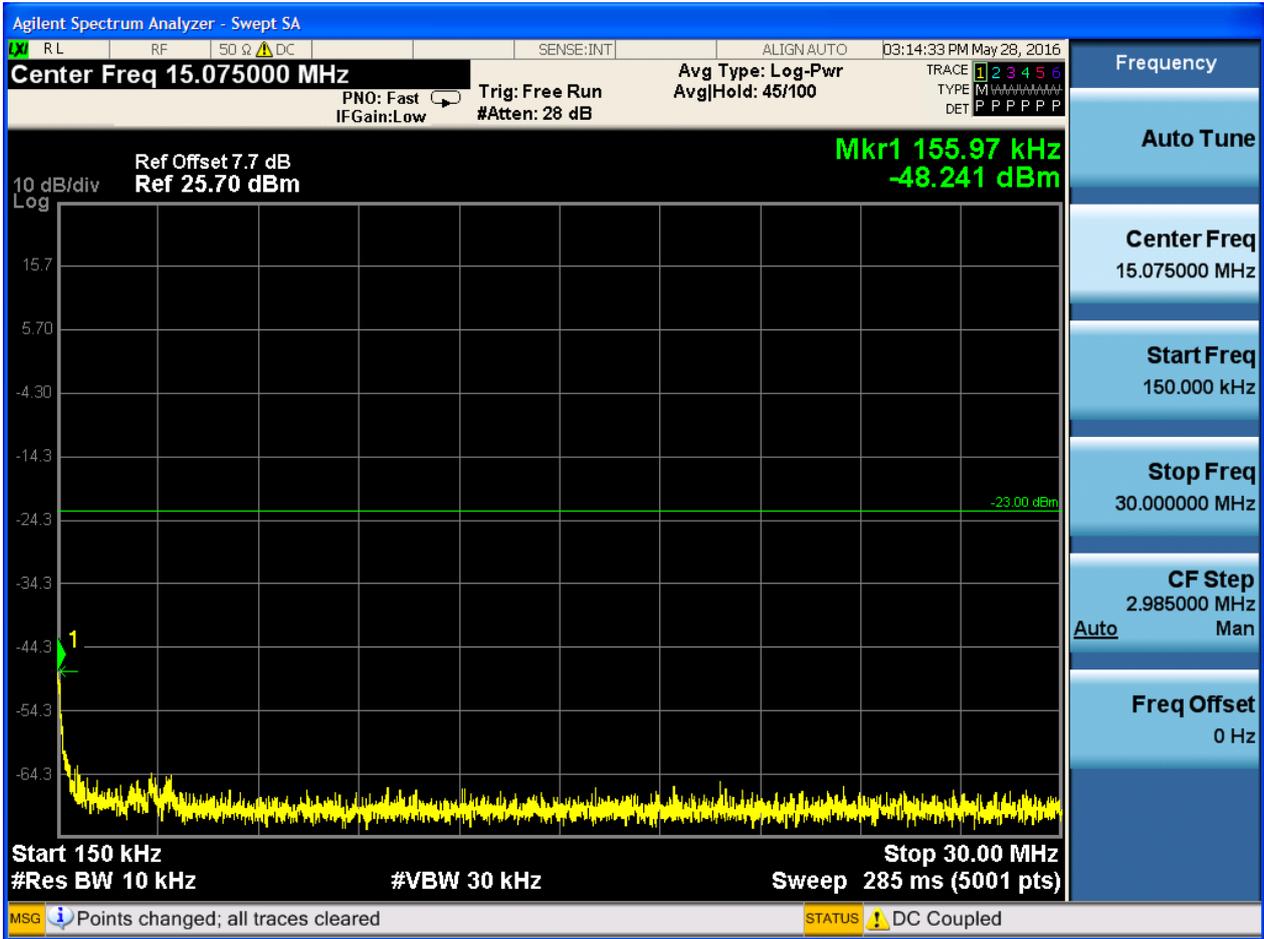
6.1.2.1.2.1.1 Test RB = RB1#0

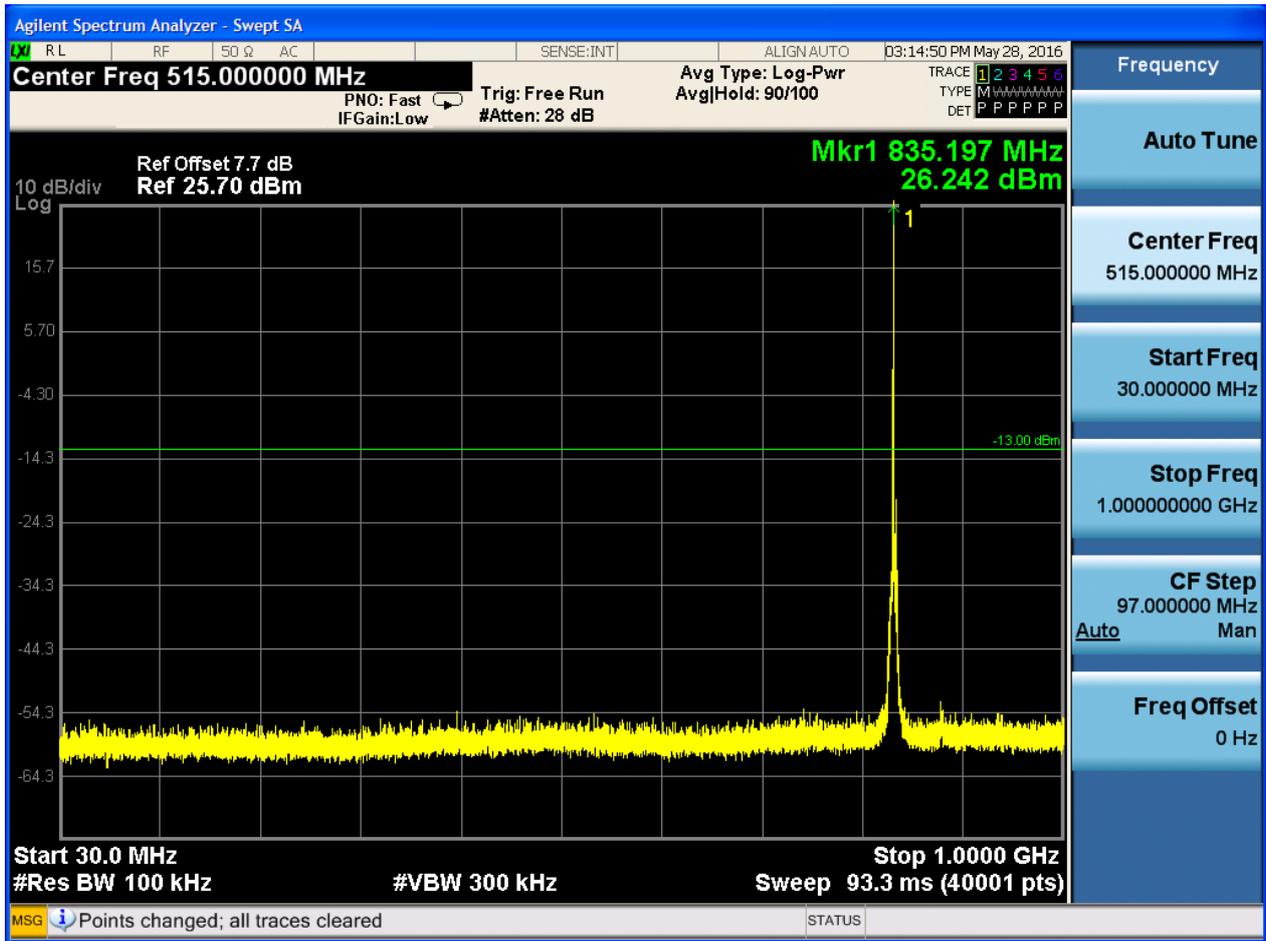


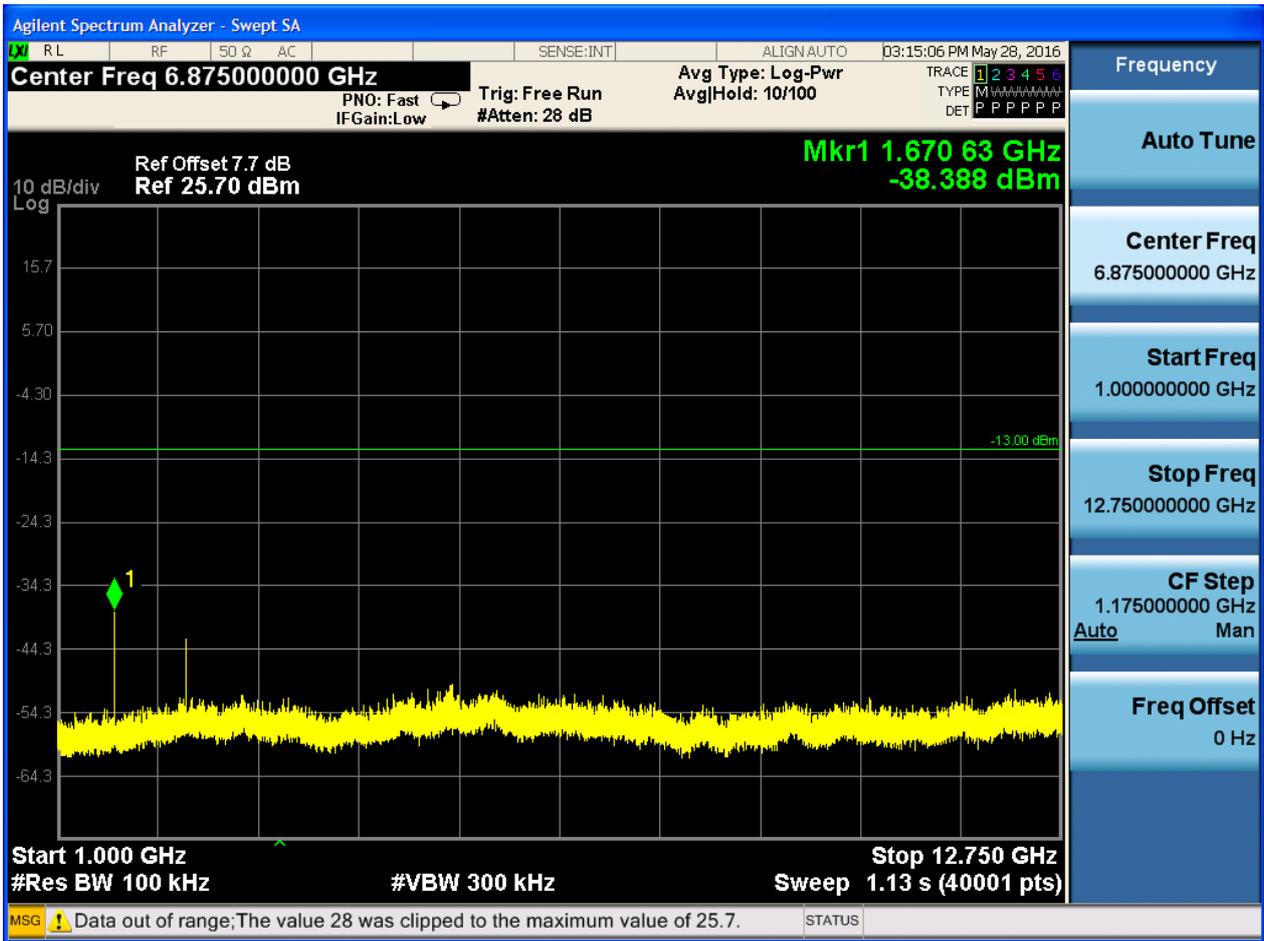








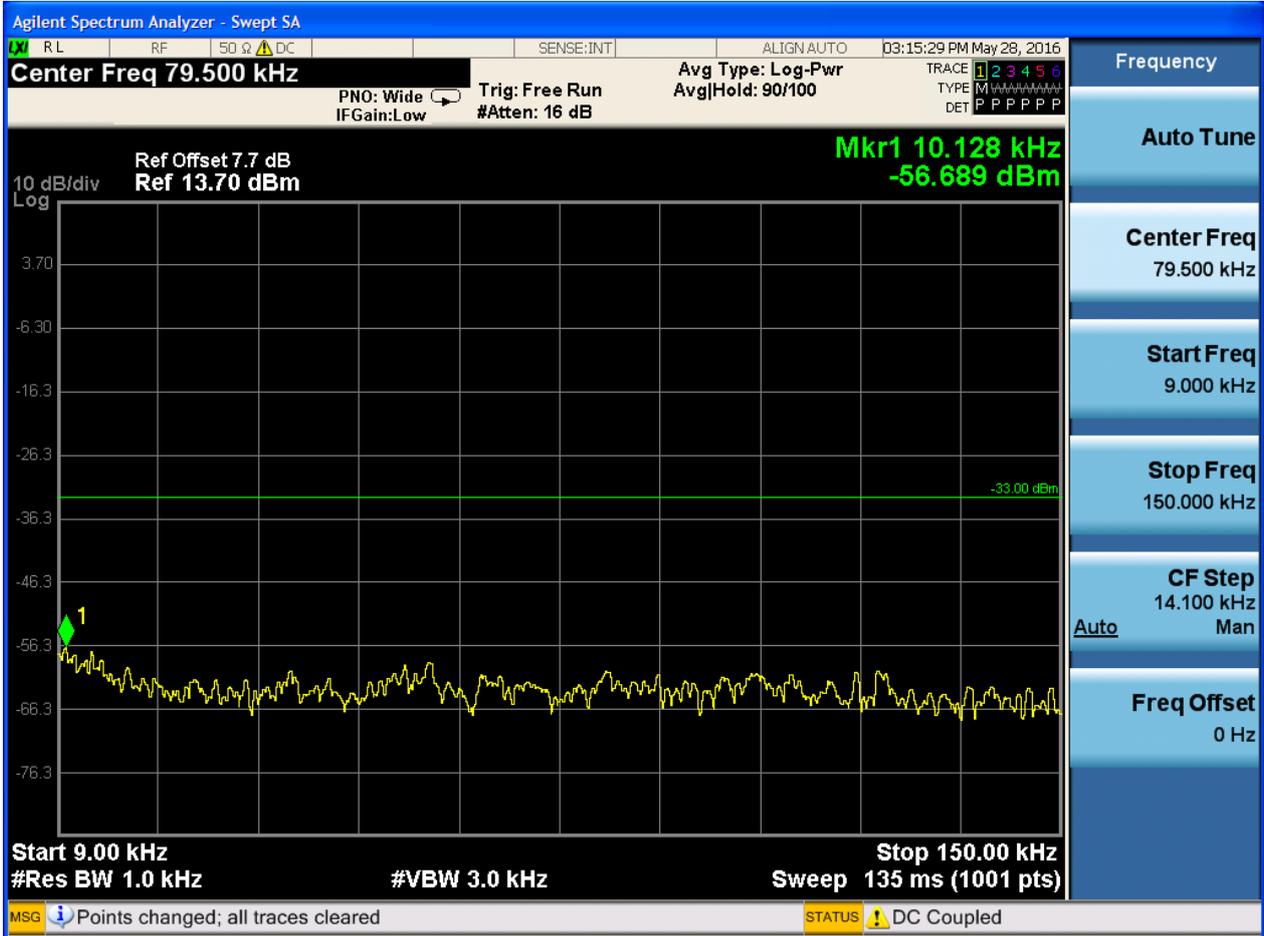


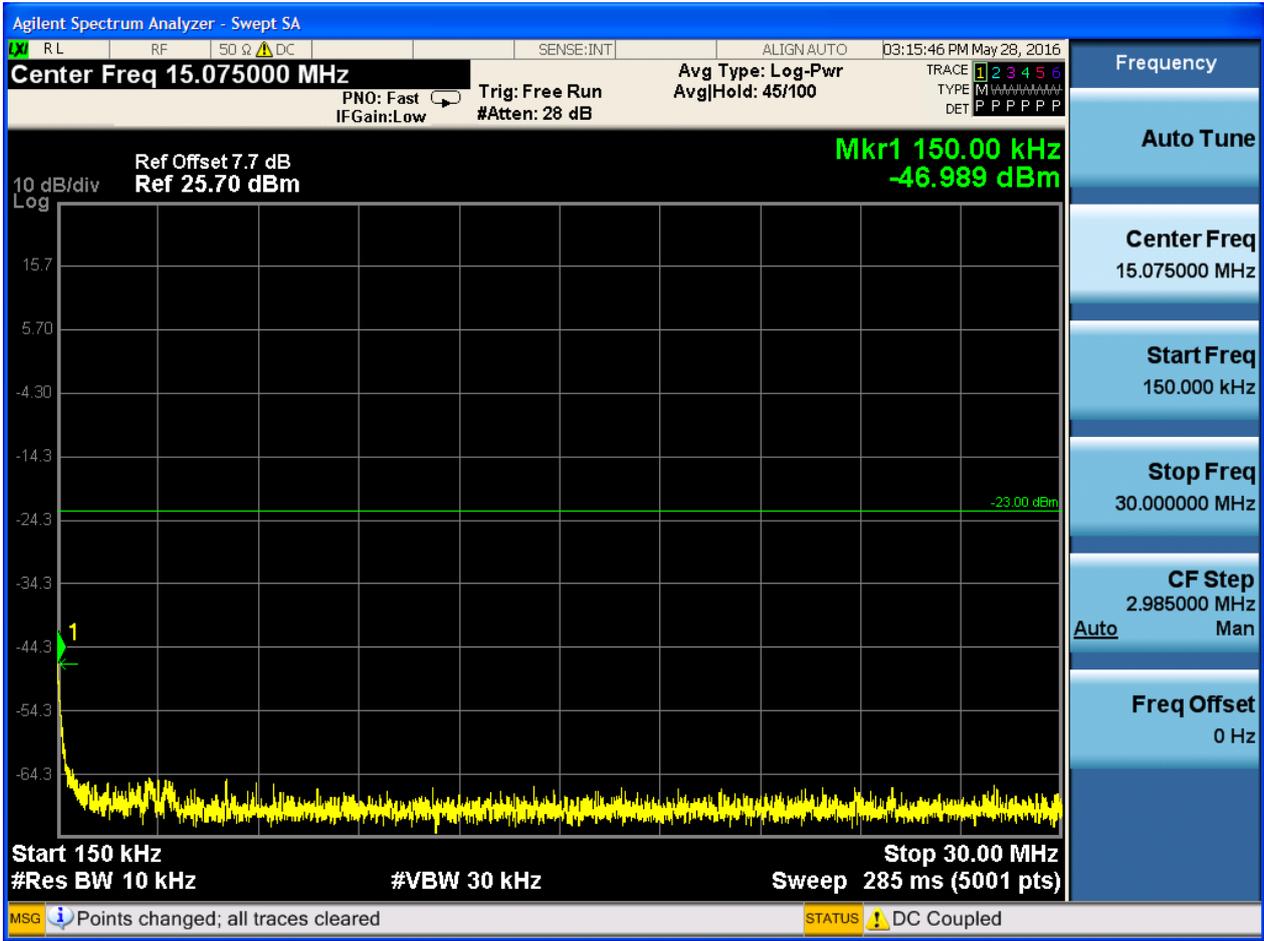


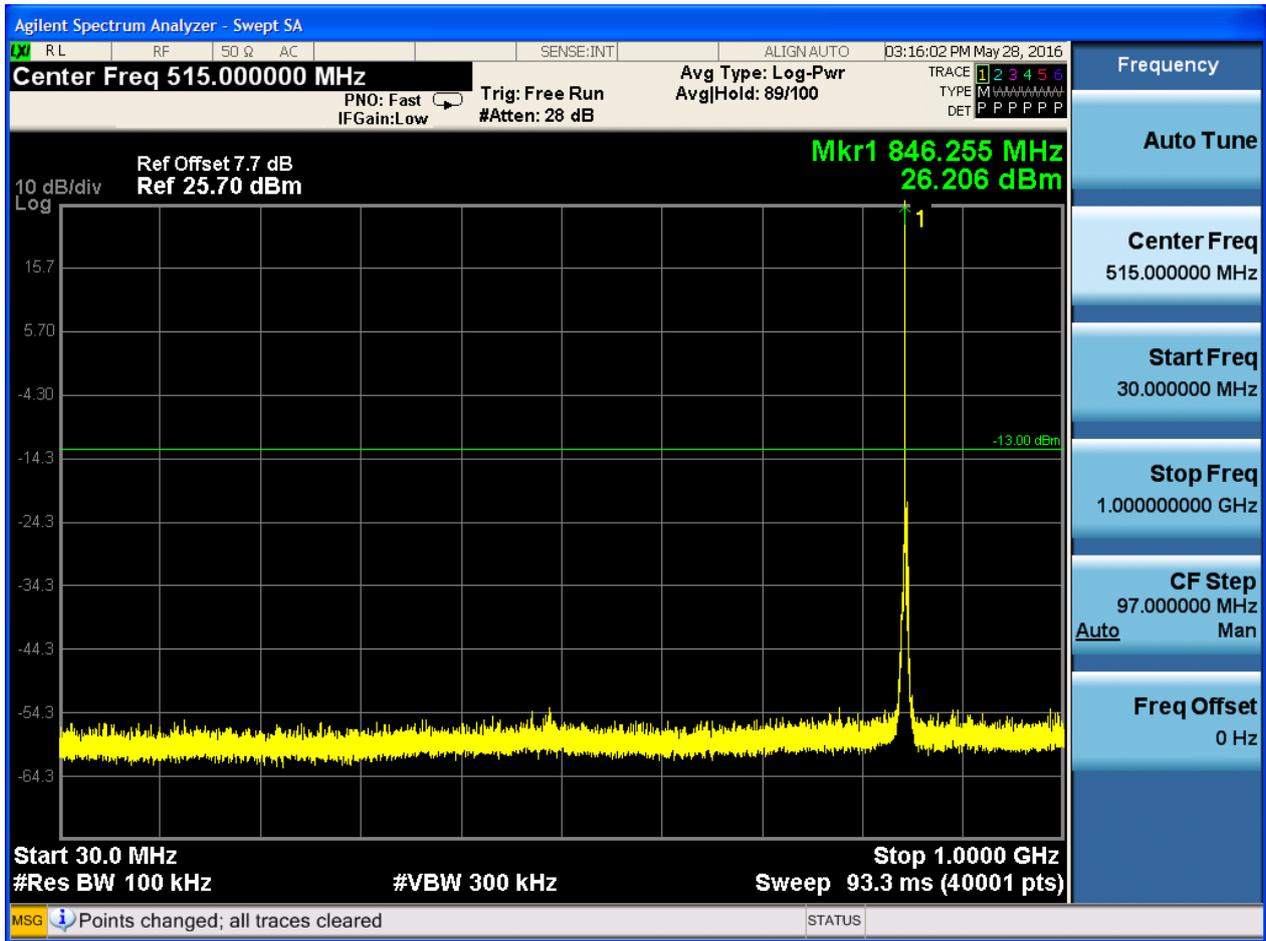


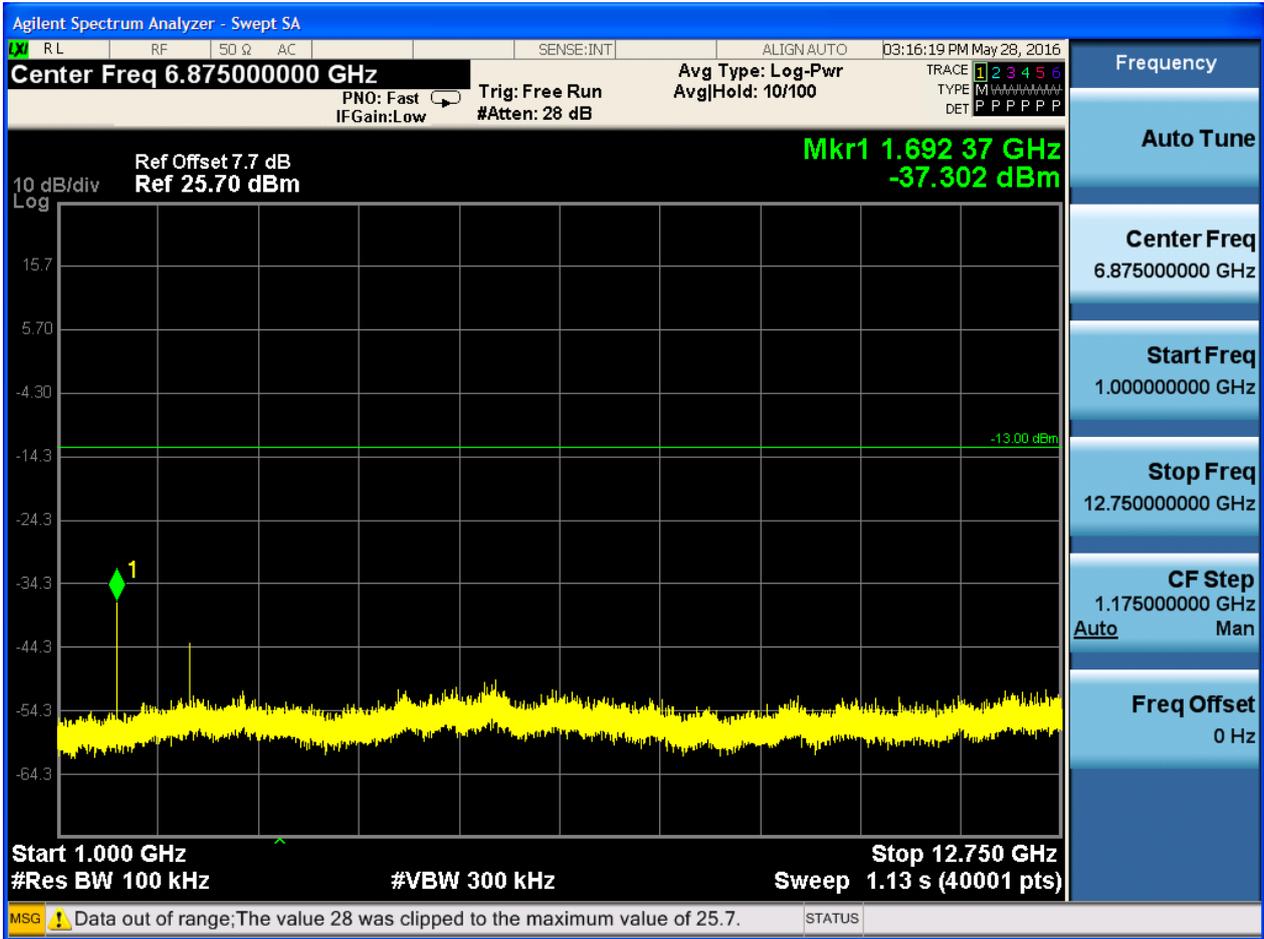
6.1.2.1.2.3 Test Channel = HCH

6.1.2.1.2.3.1 Test RB = RB1#0







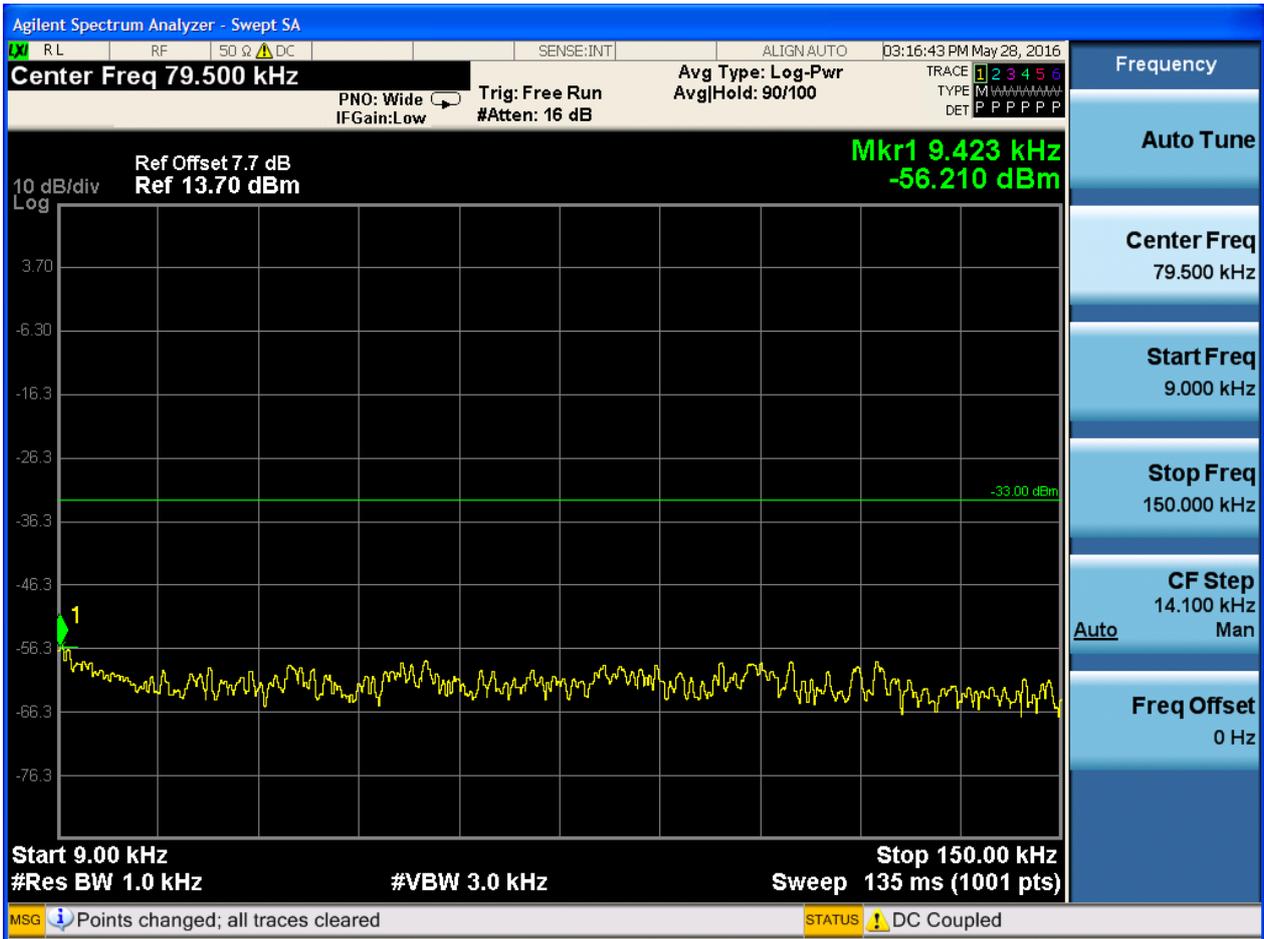




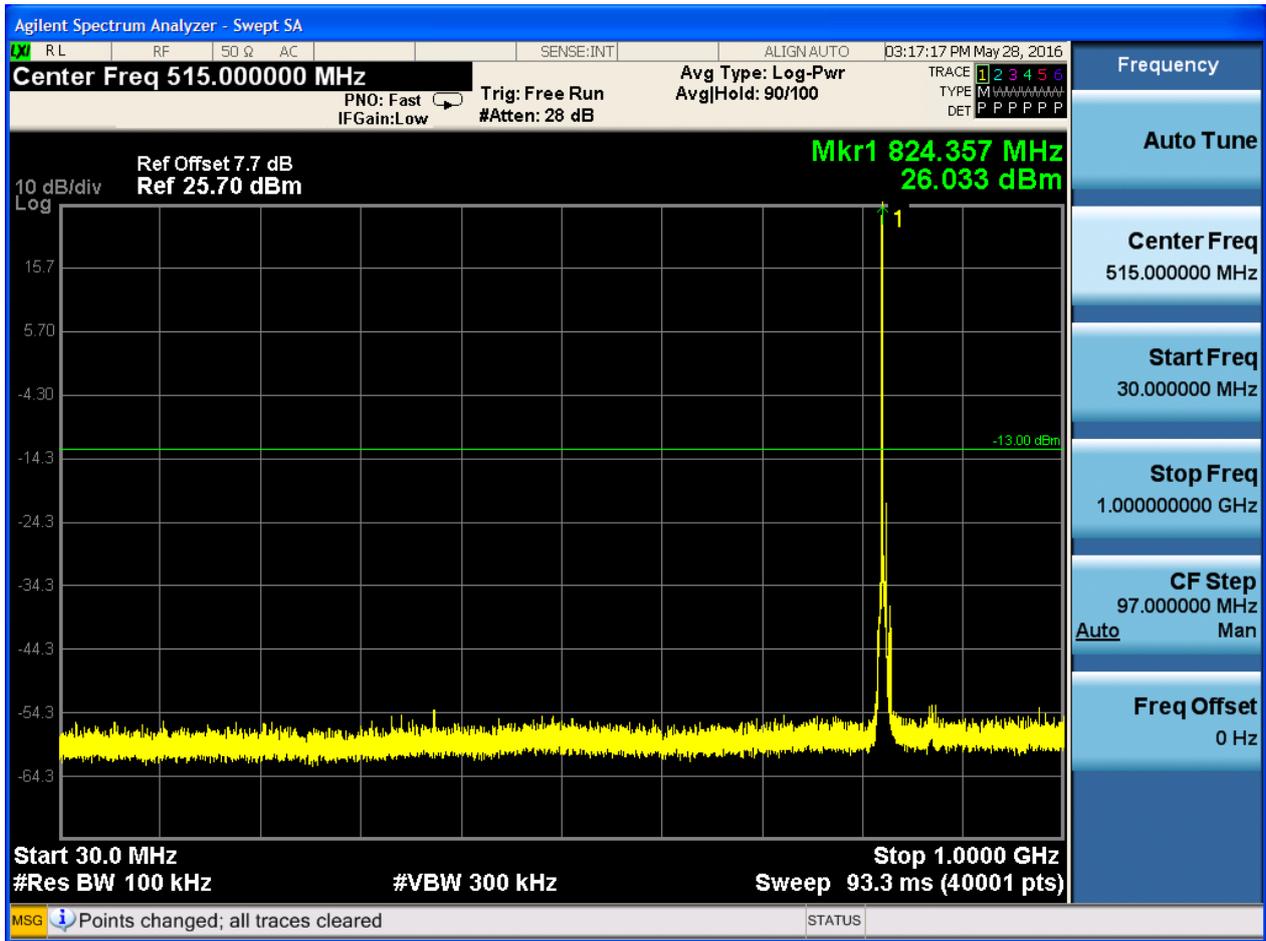
6.1.2.1.3 Test Bandwidth = 5

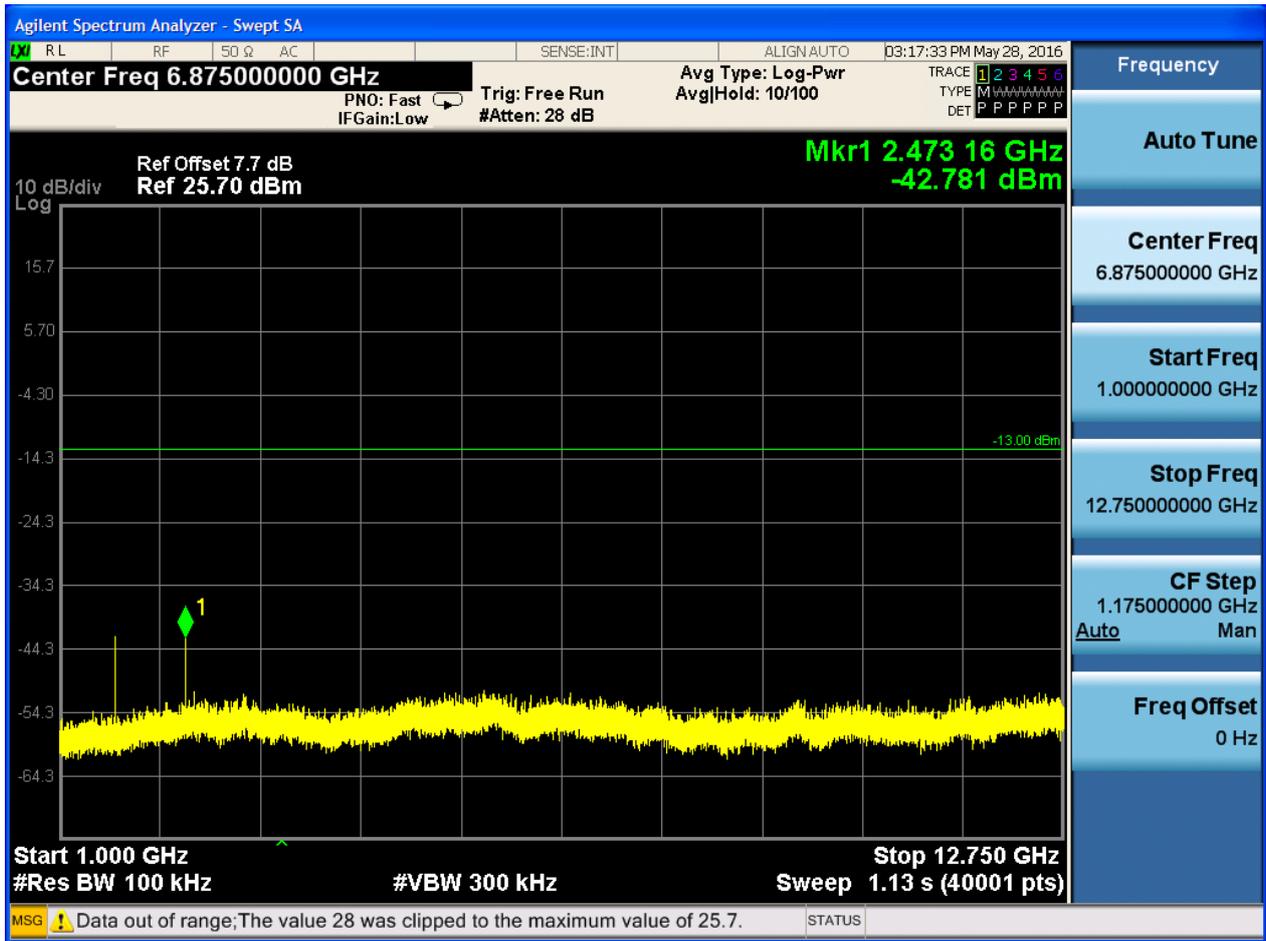
6.1.2.1.3.1 Test Channel = LCH

6.1.2.1.3.1.1 Test RB = RB1#0





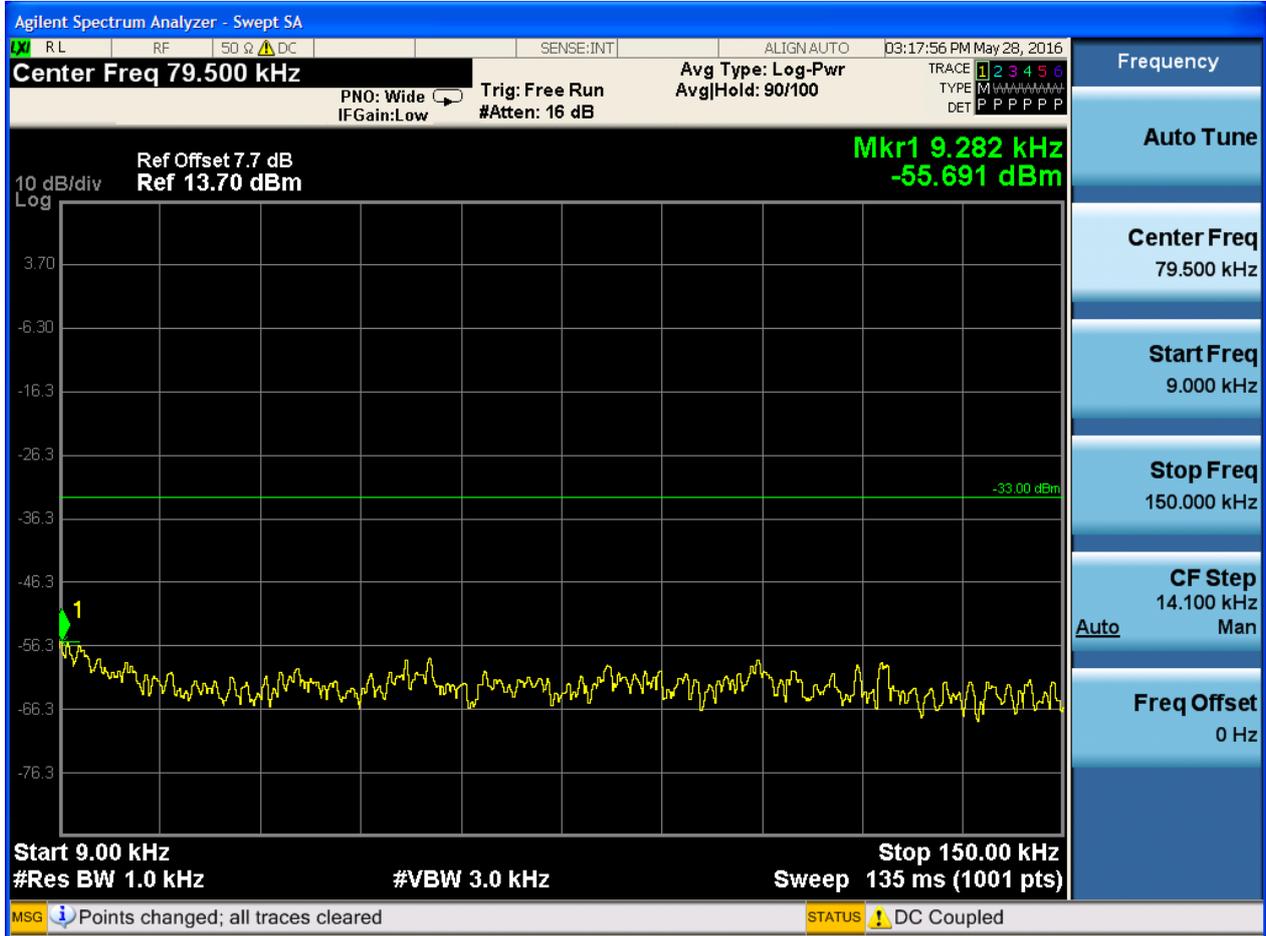


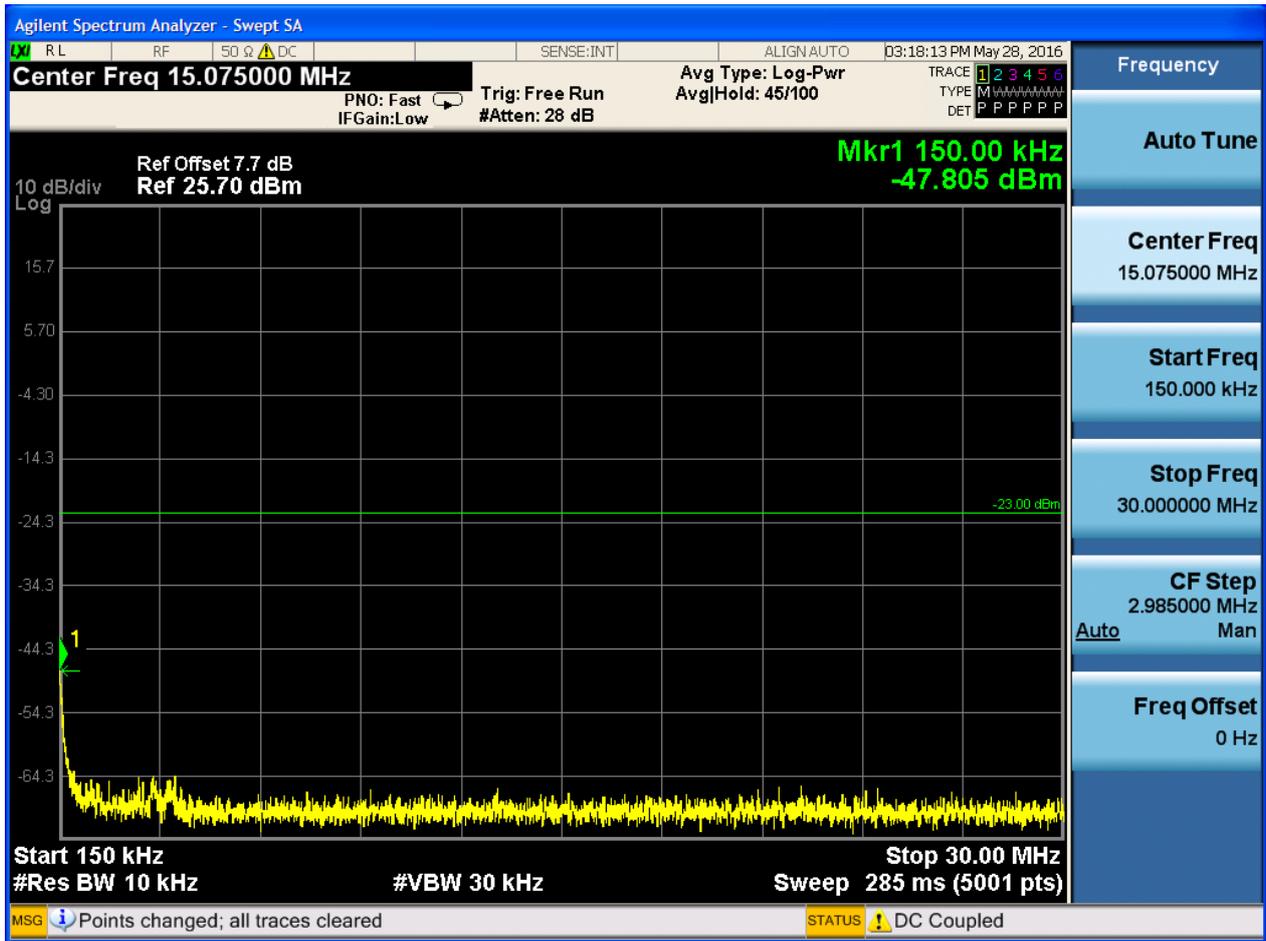


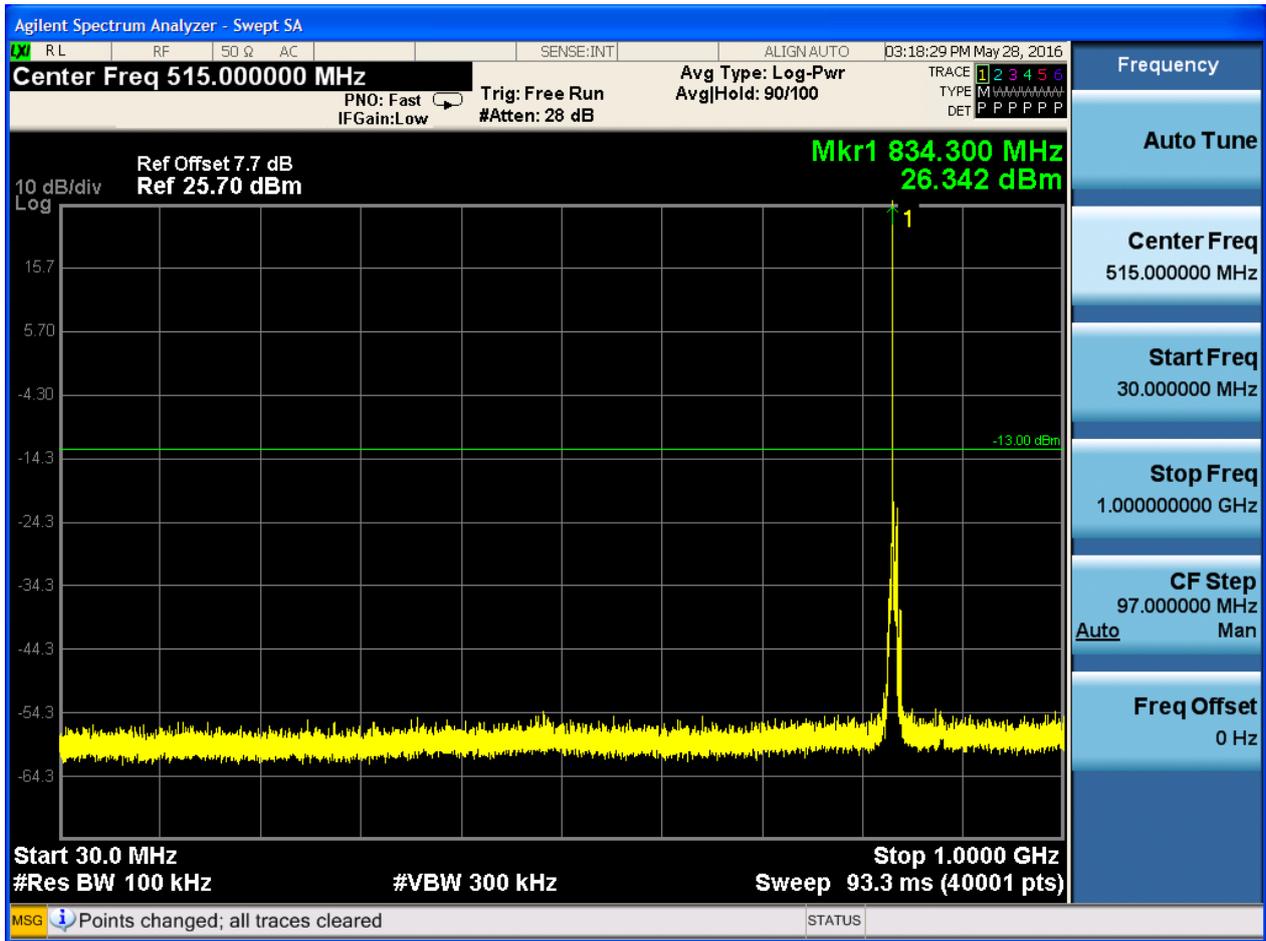


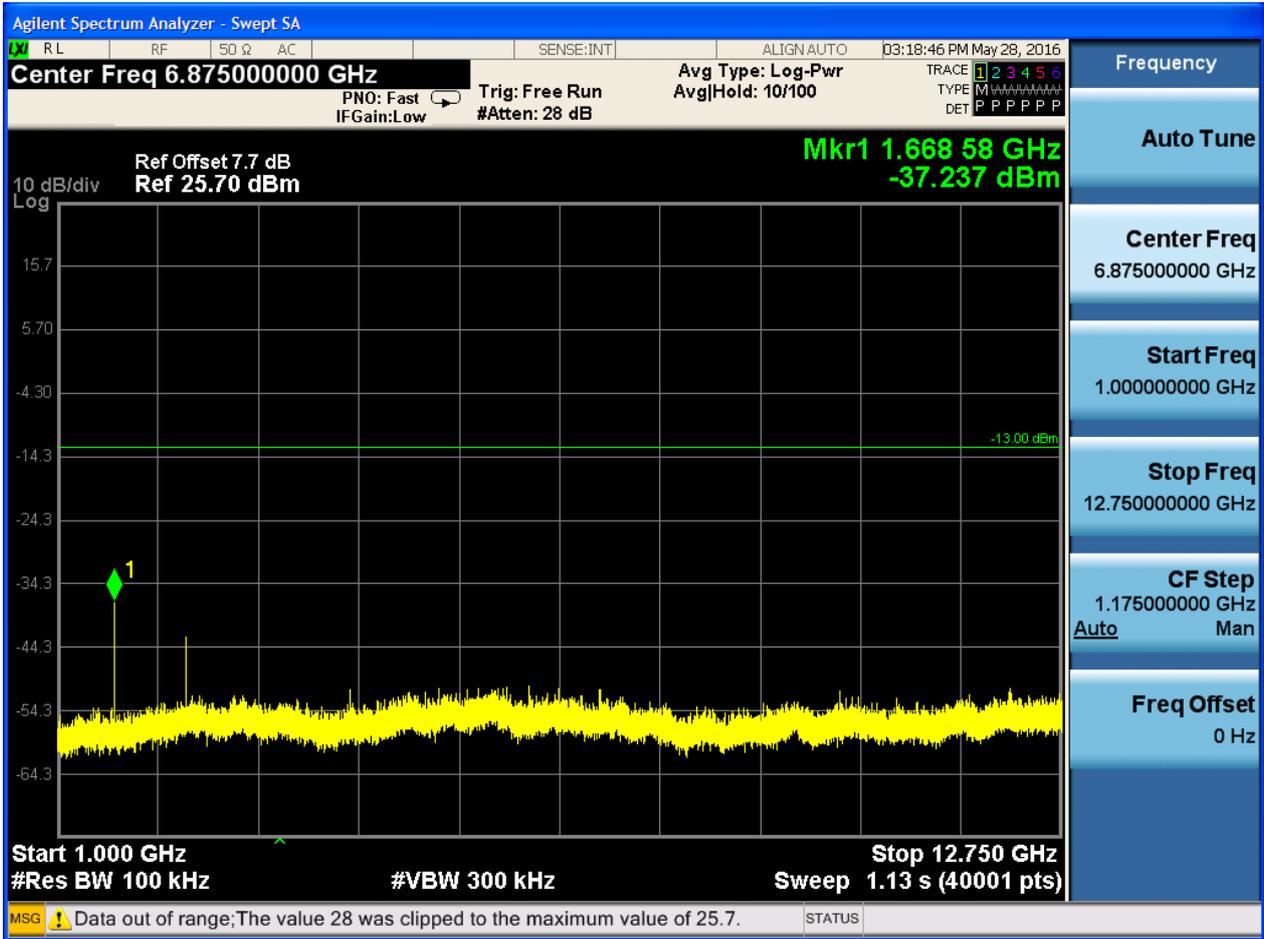
6.1.2.1.3.2 Test Channel = MCH

6.1.2.1.3.2.1 Test RB = RB1#0



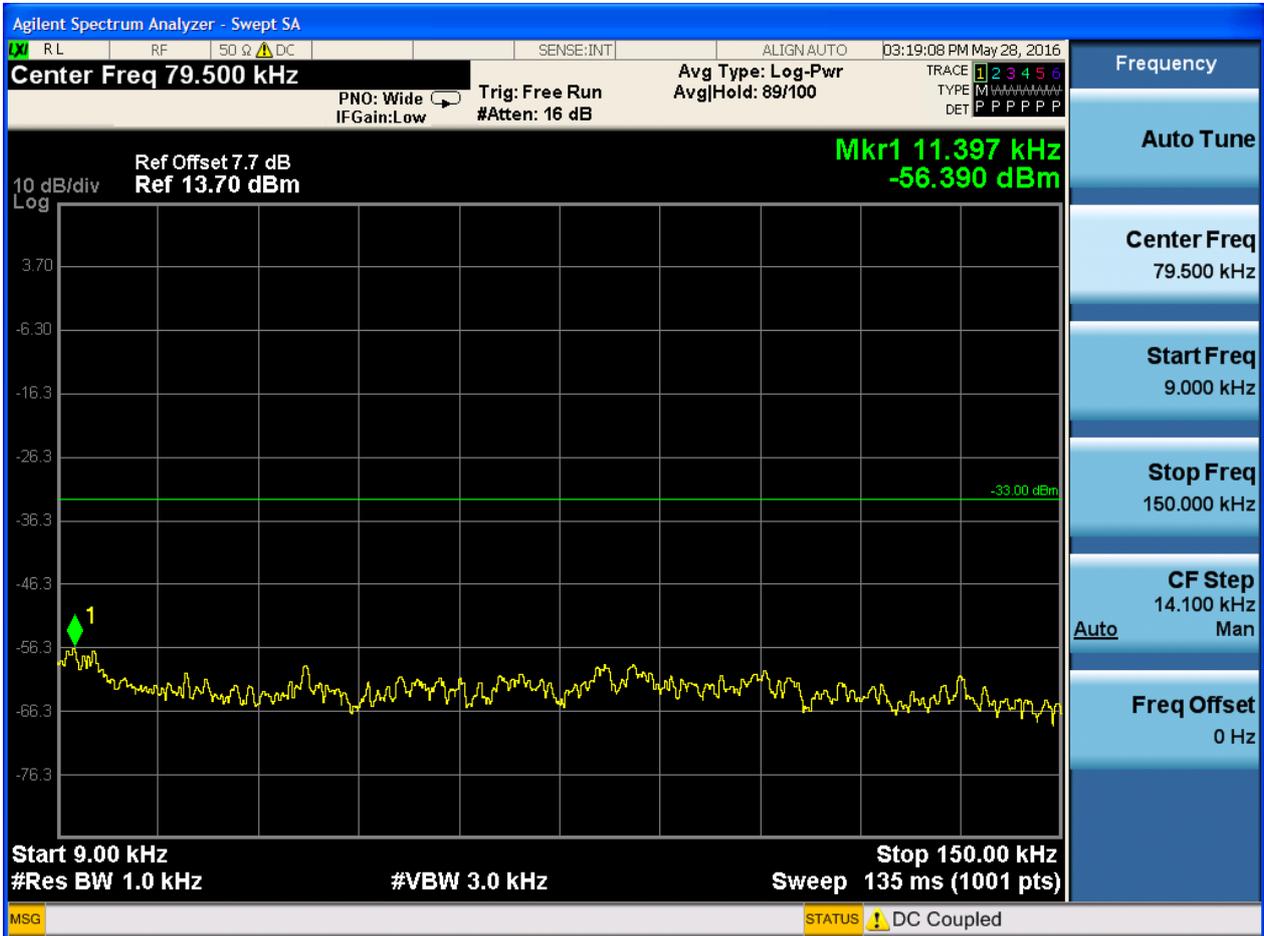


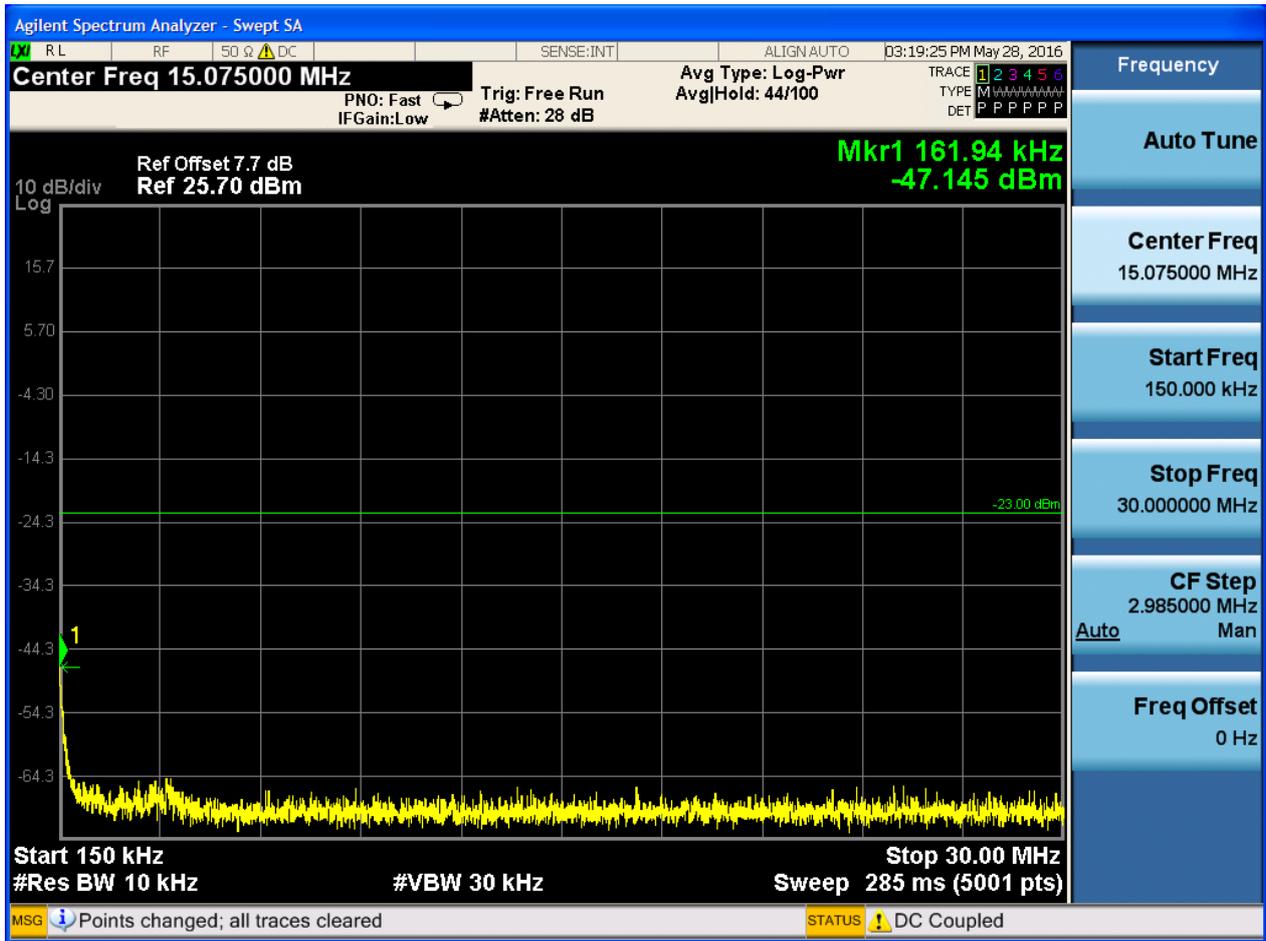


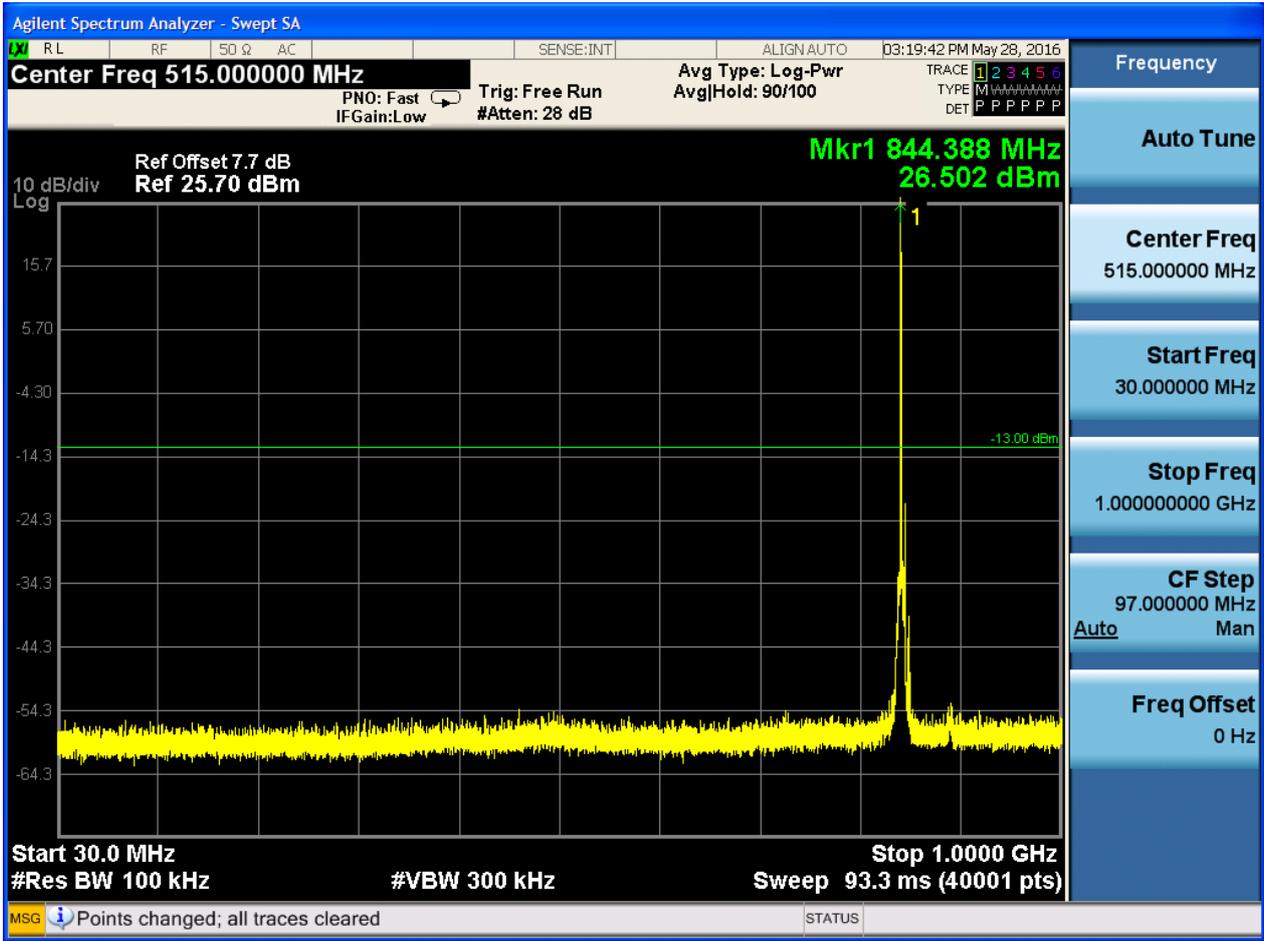


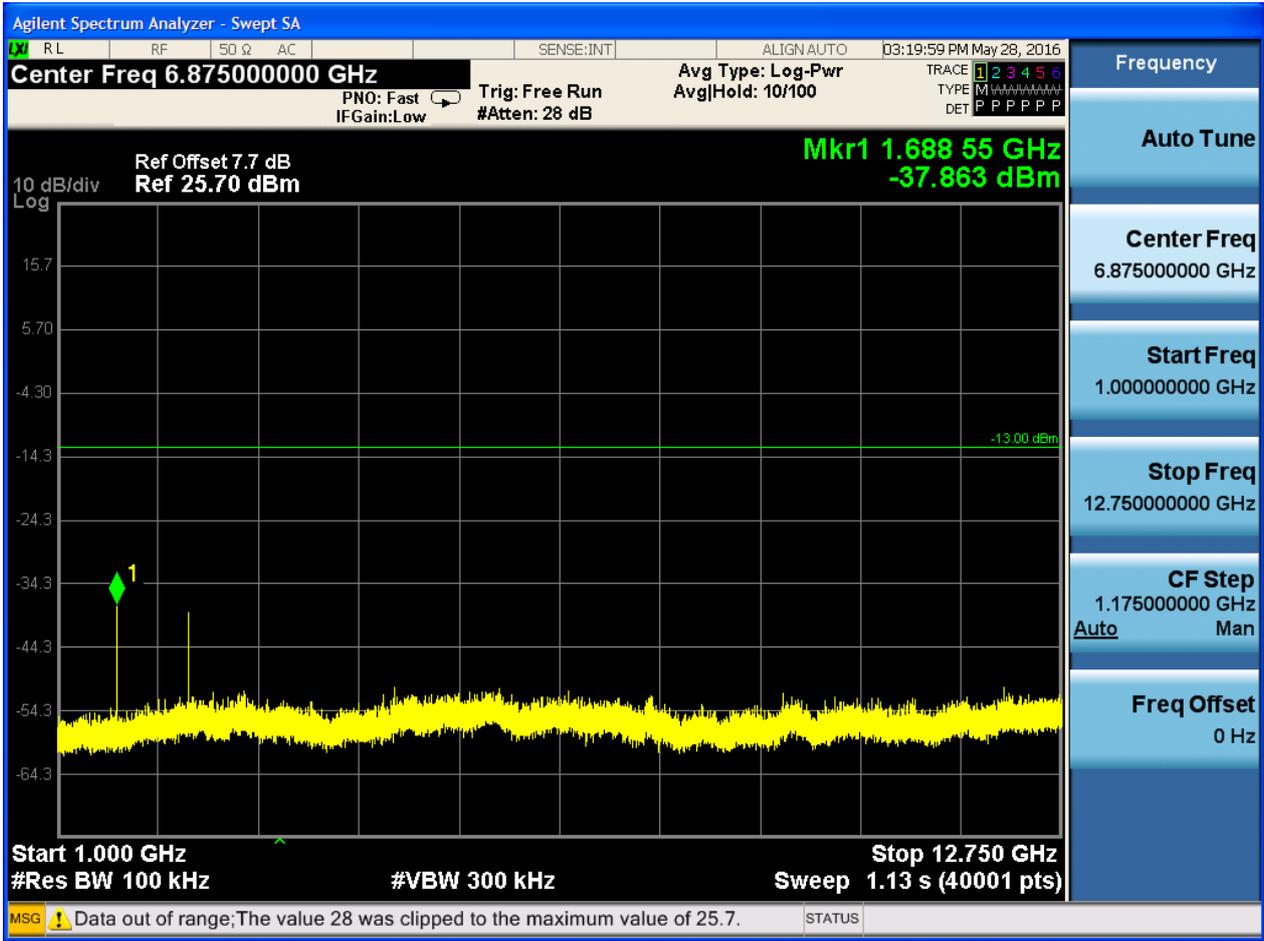
6.1.2.1.3.3 Test Channel = HCH

6.1.2.1.3.3.1 Test RB = RB1#0







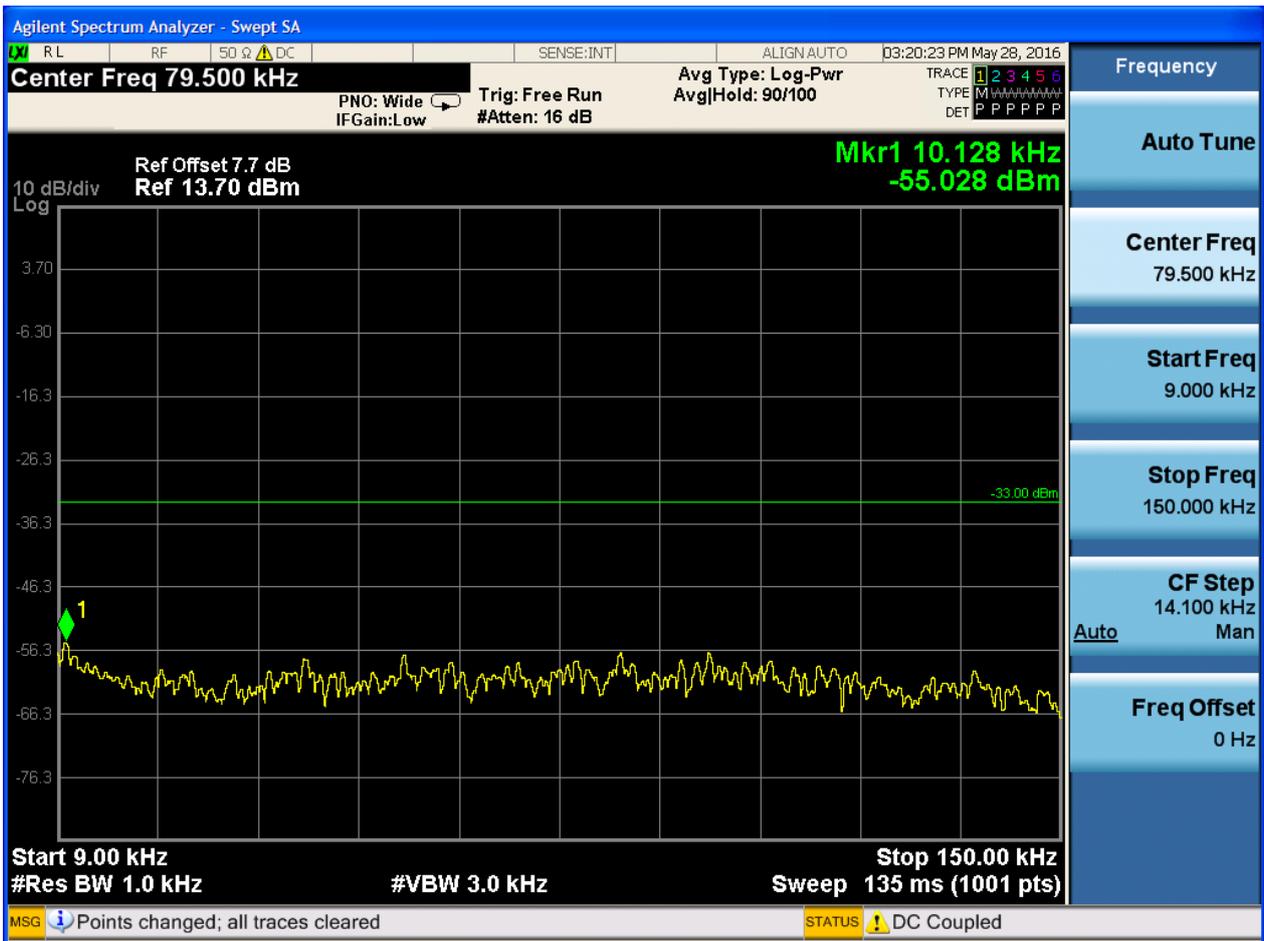




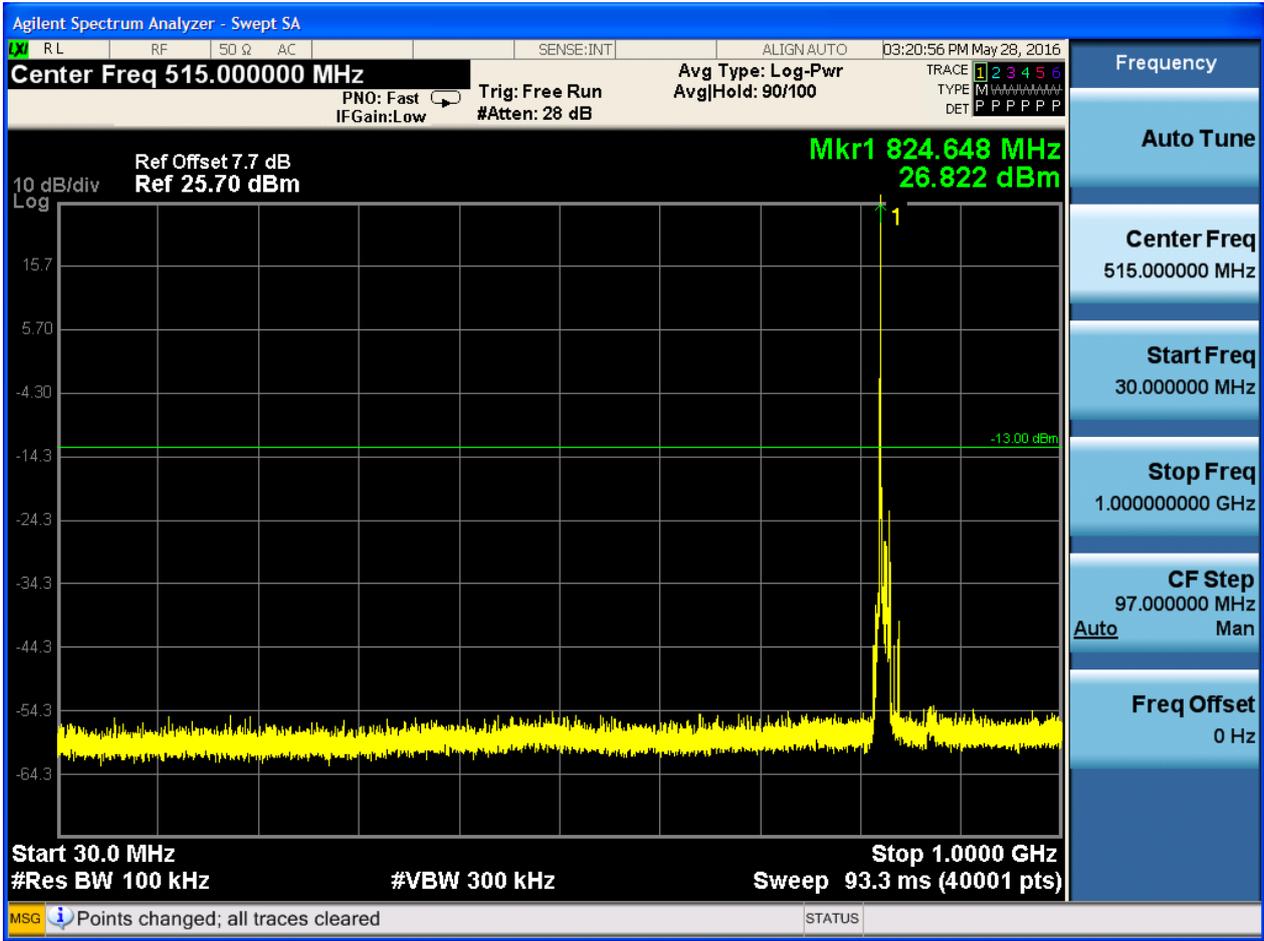
6.1.2.1.4 Test Bandwidth = 10

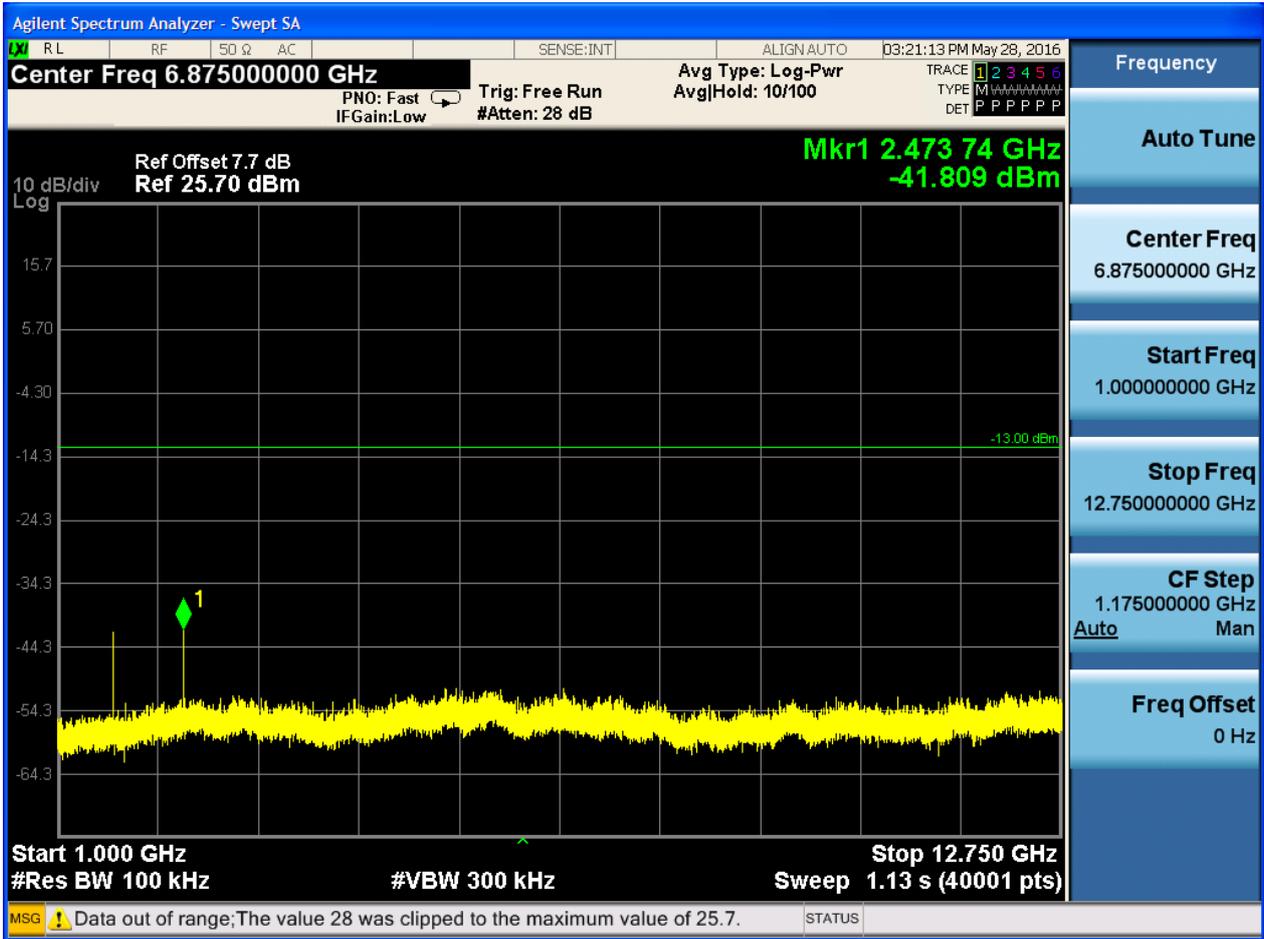
6.1.2.1.4.1 Test Channel = LCH

6.1.2.1.4.1.1 Test RB = RB1#0



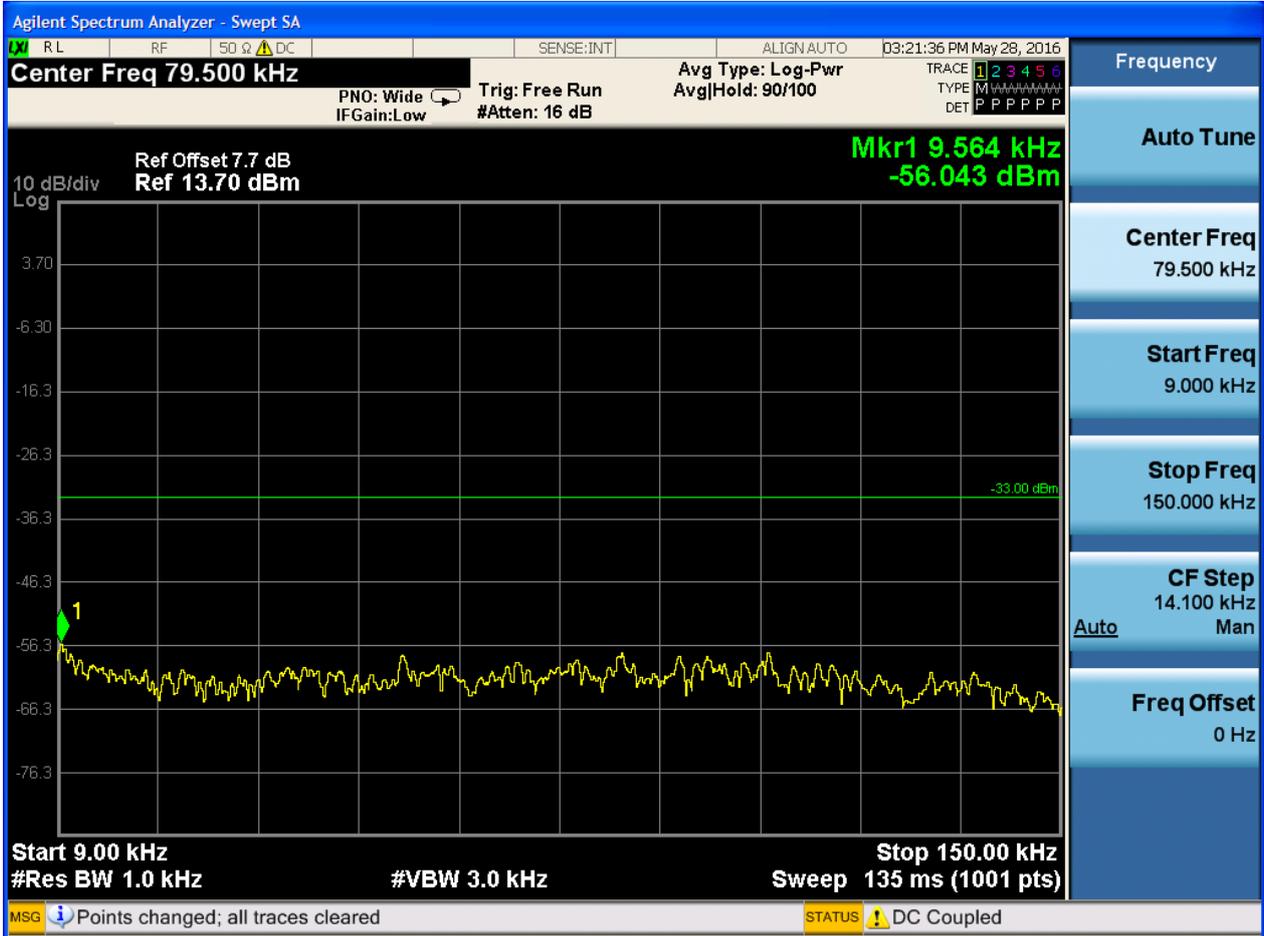


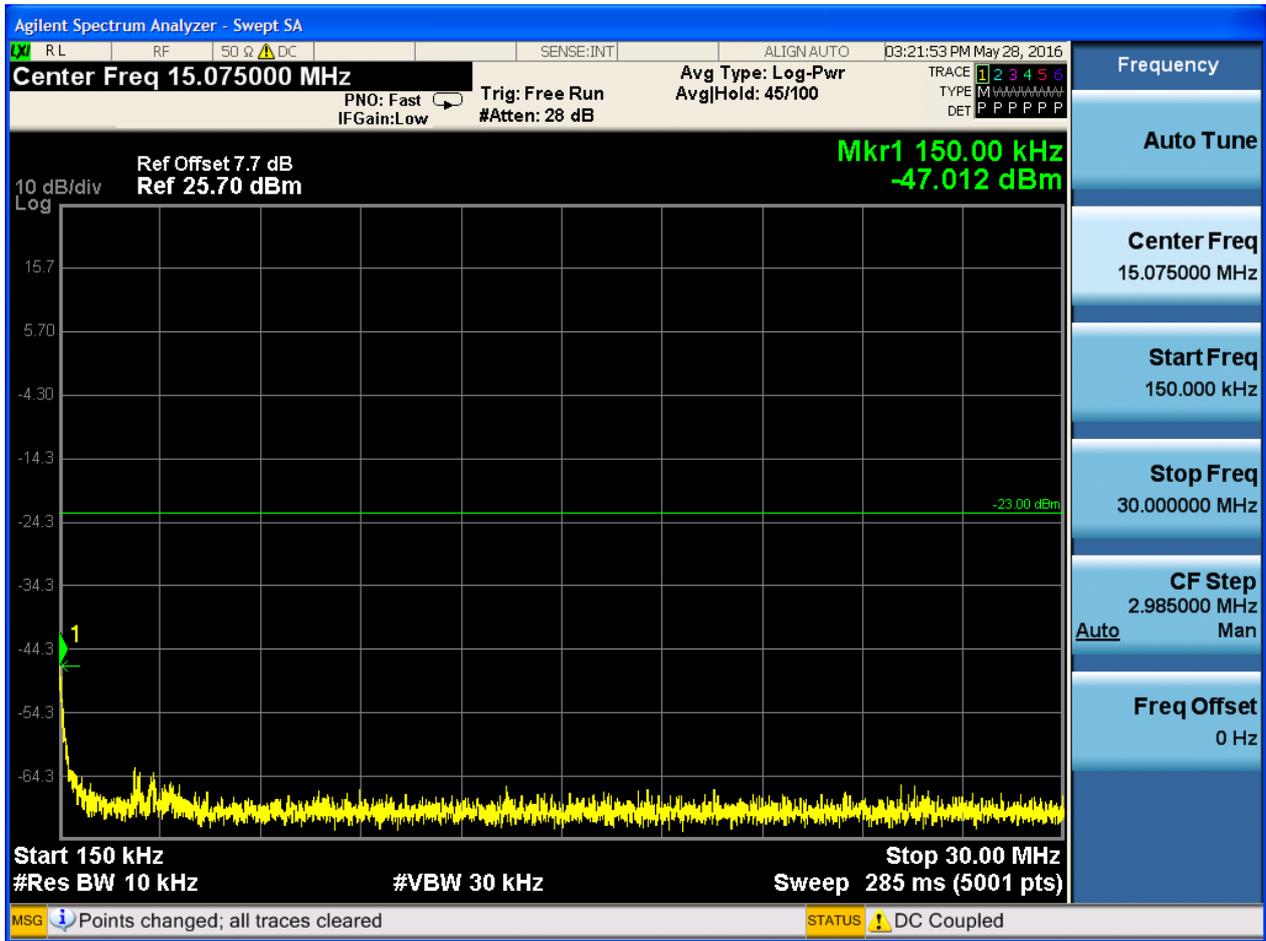


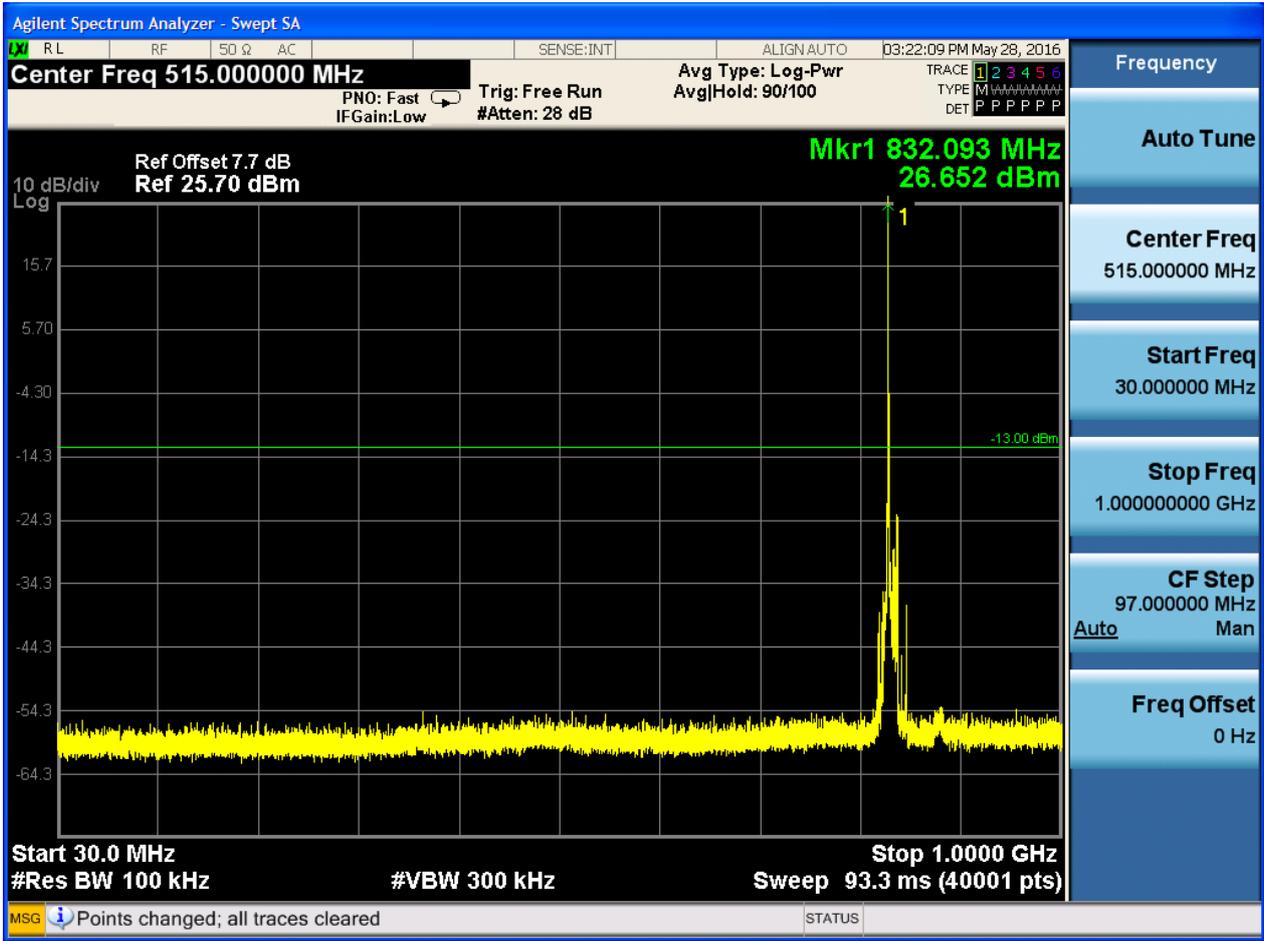


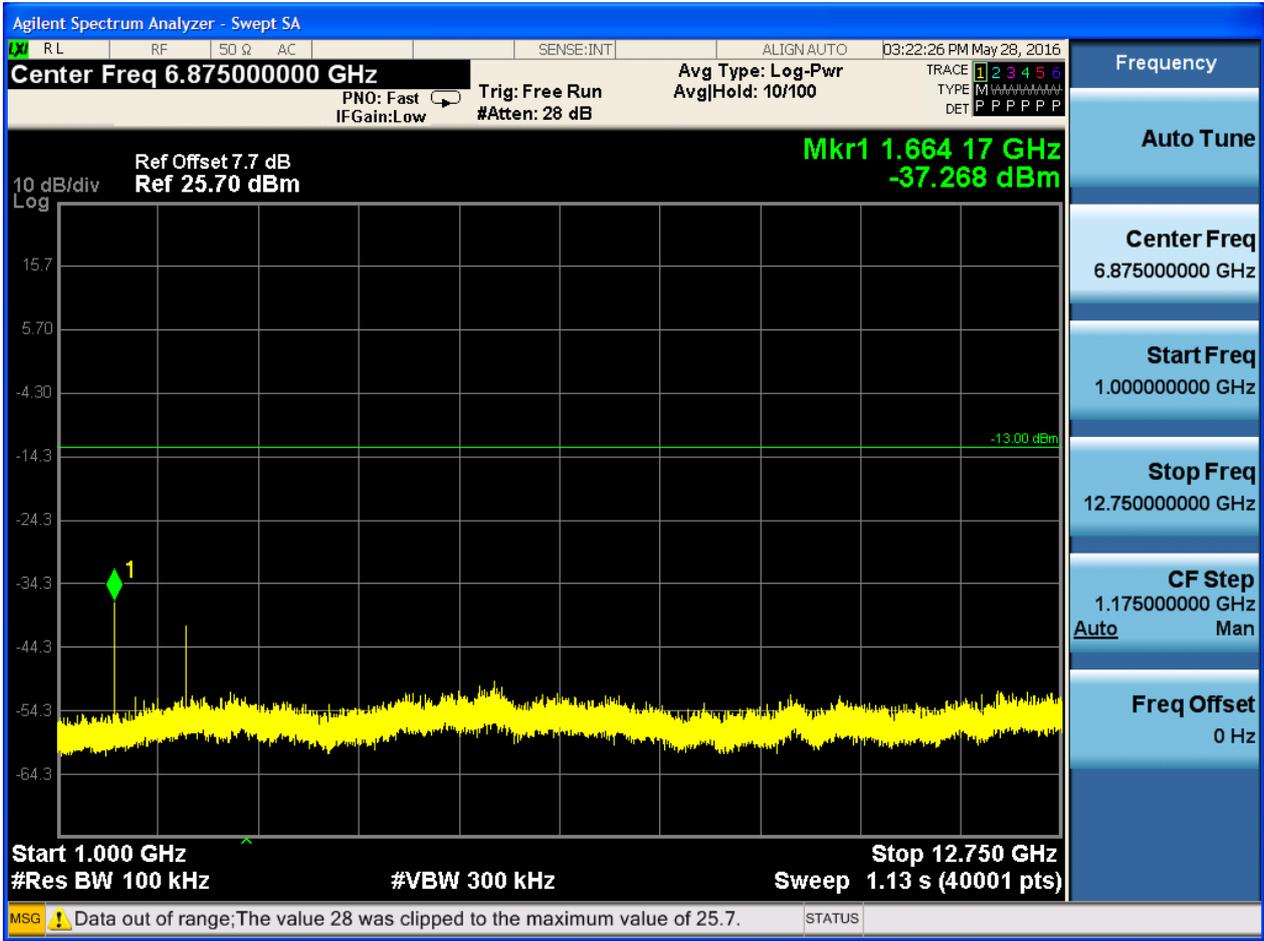
6.1.2.1.4.2 Test Channel = MCH

6.1.2.1.4.2.1 Test RB = RB1#0





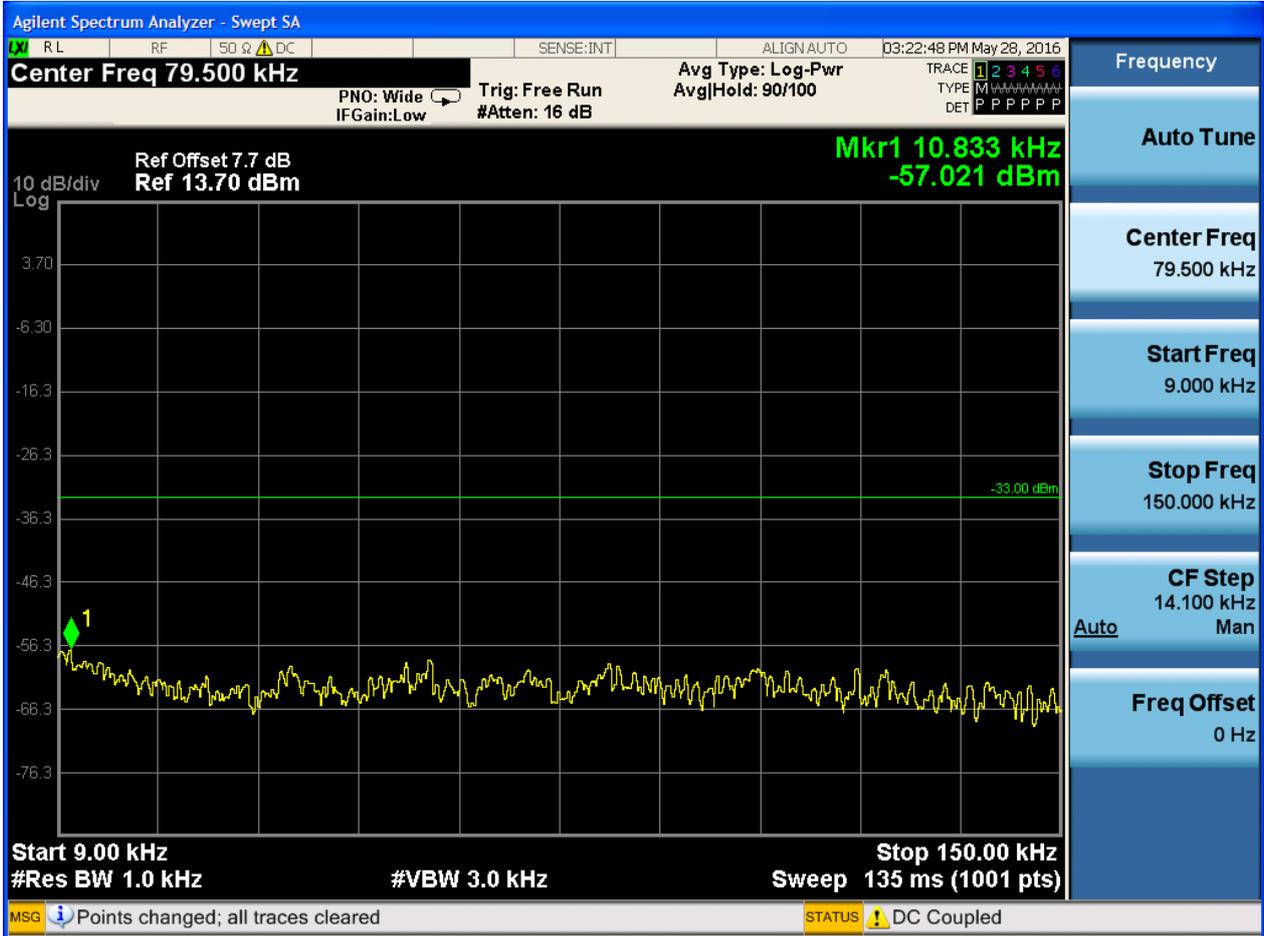


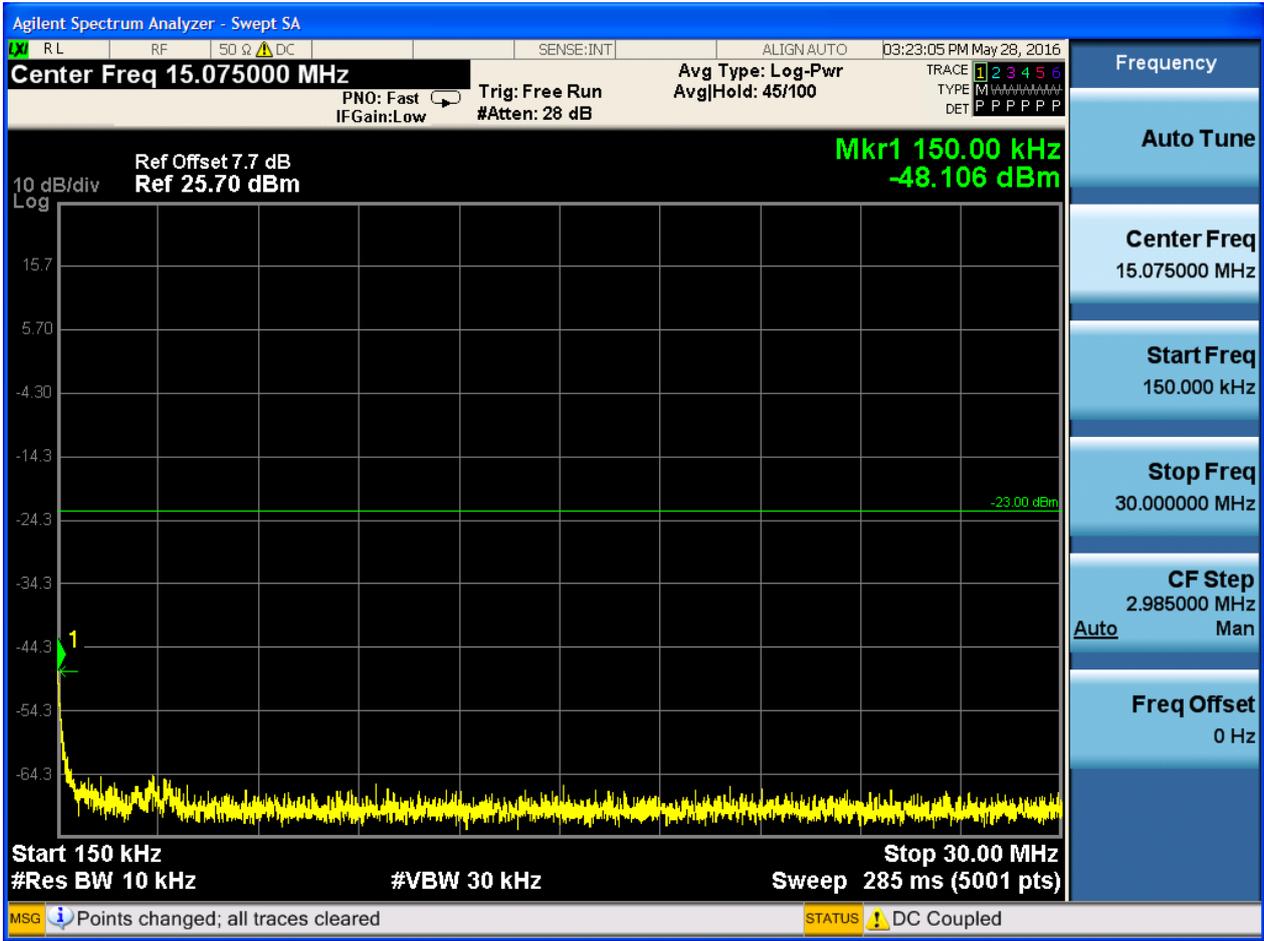


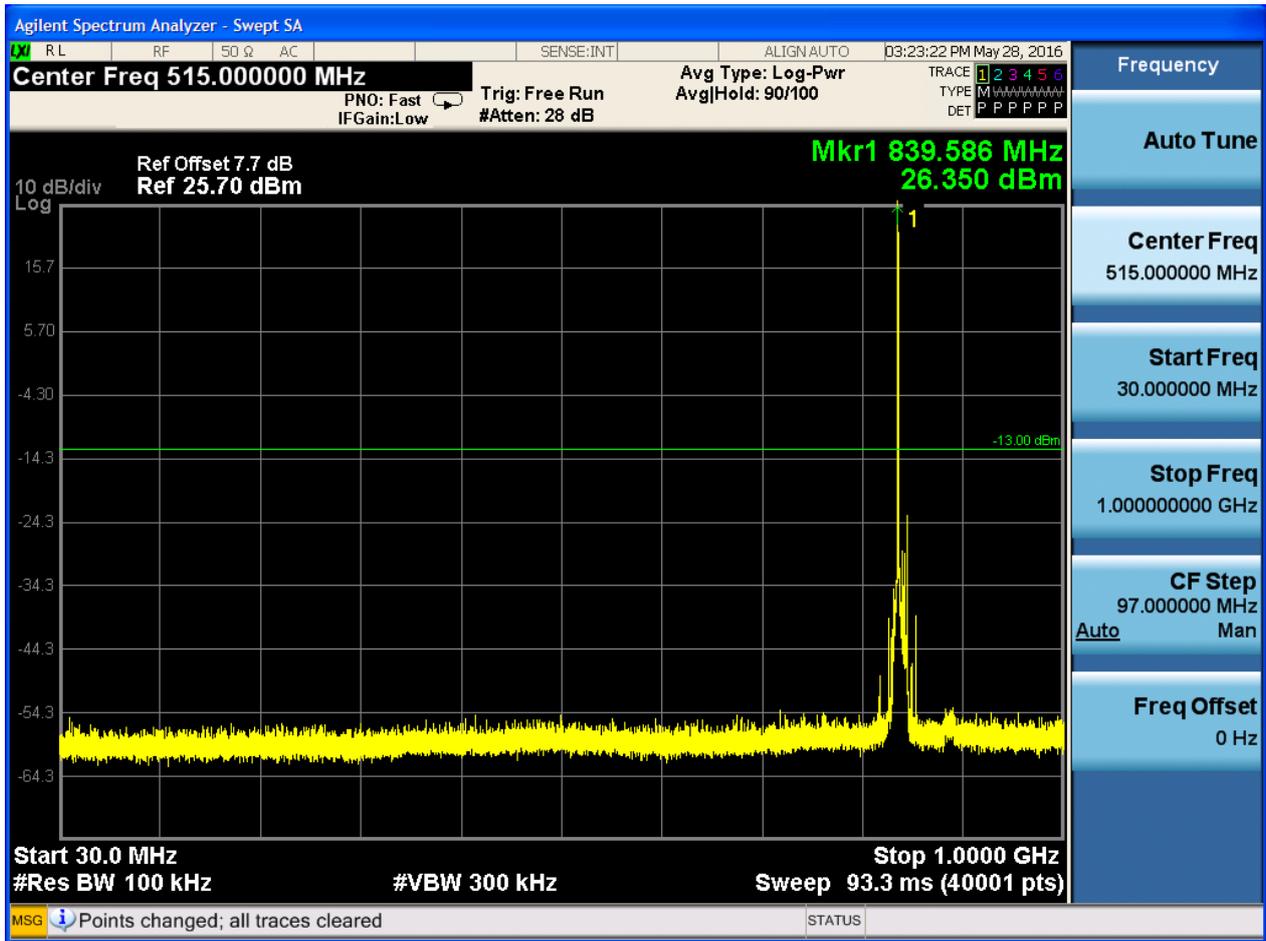


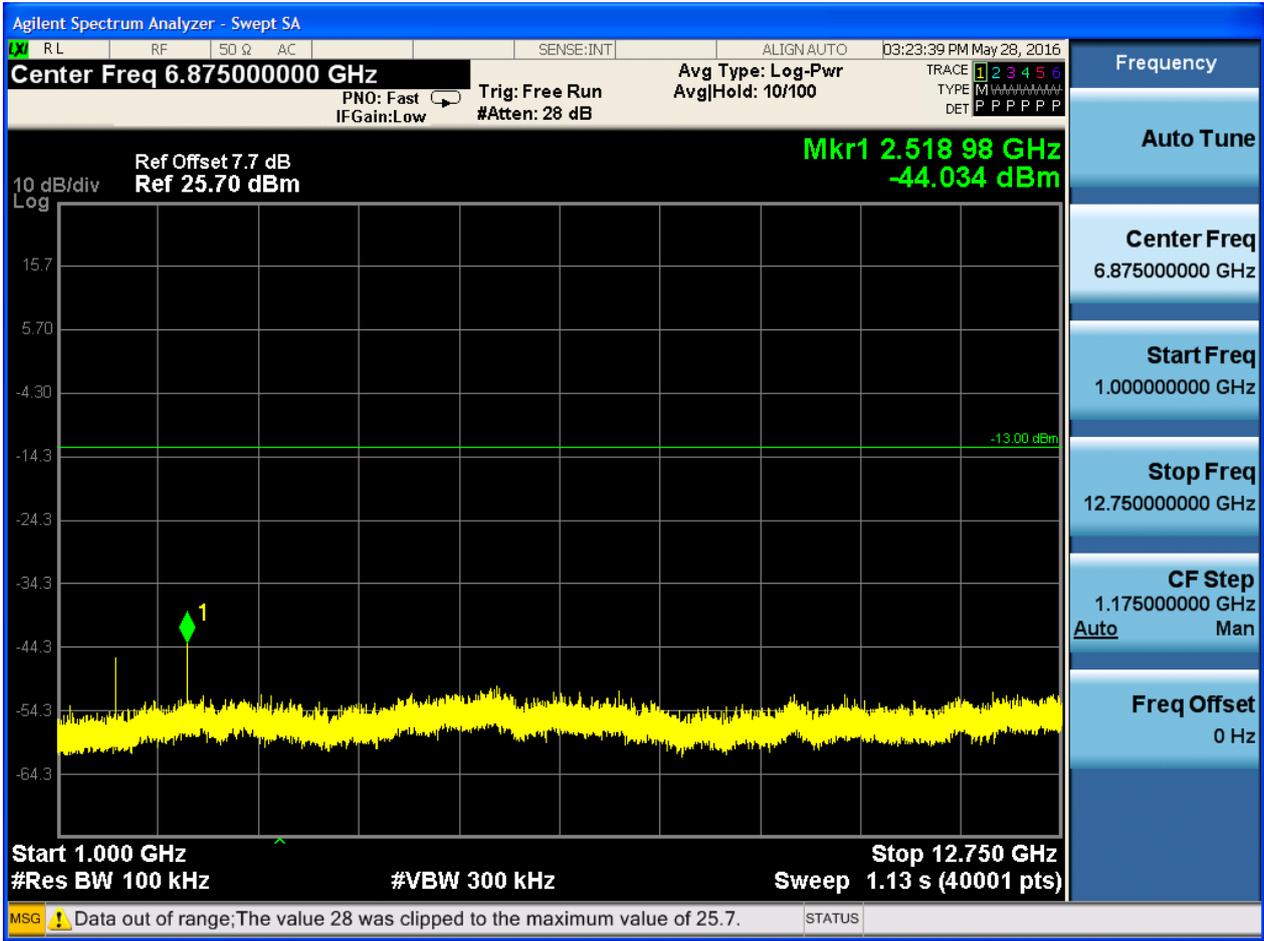
6.1.2.1.4.3 Test Channel = HCH

6.1.2.1.4.3.1 Test RB = RB1#0









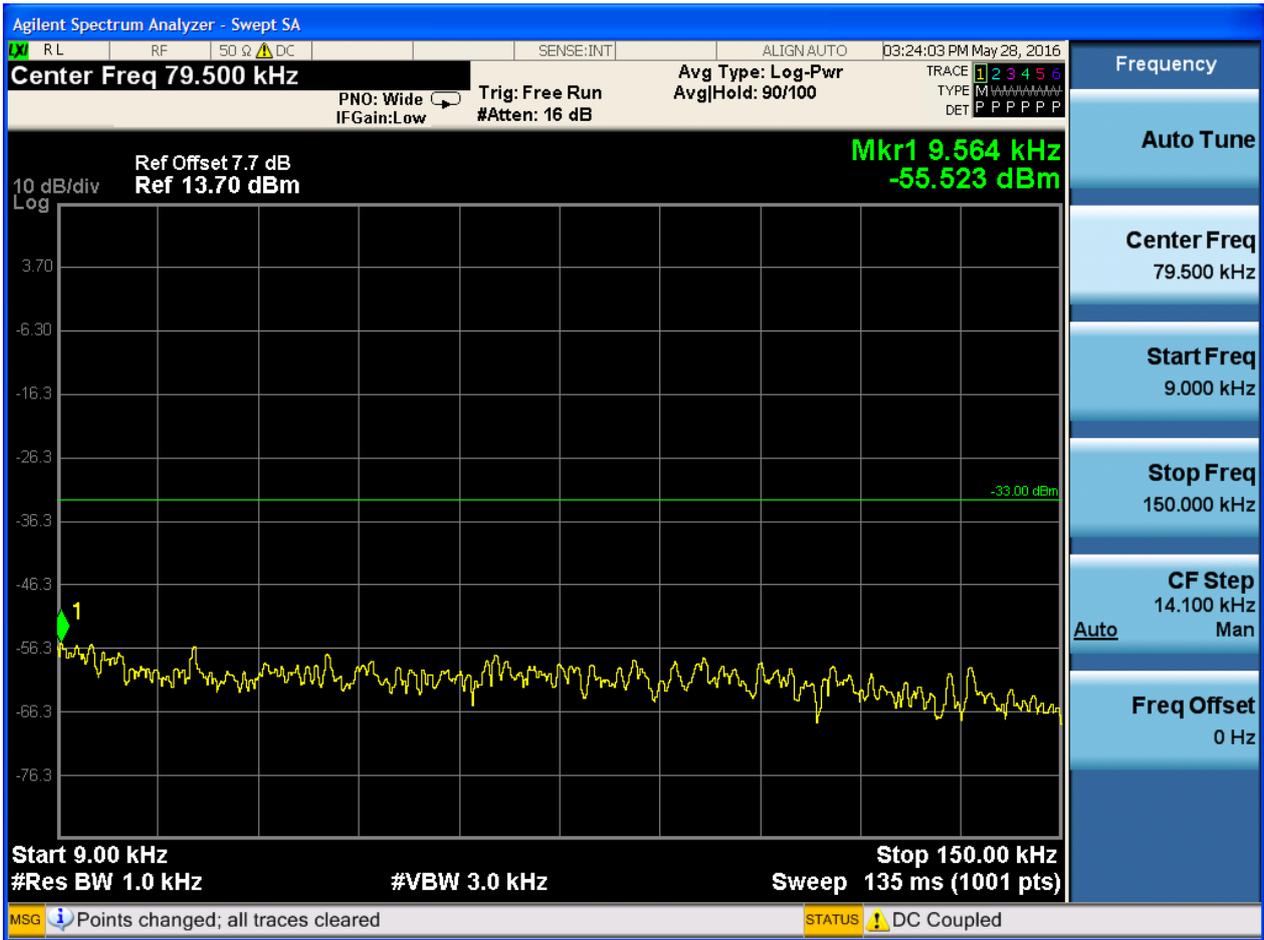


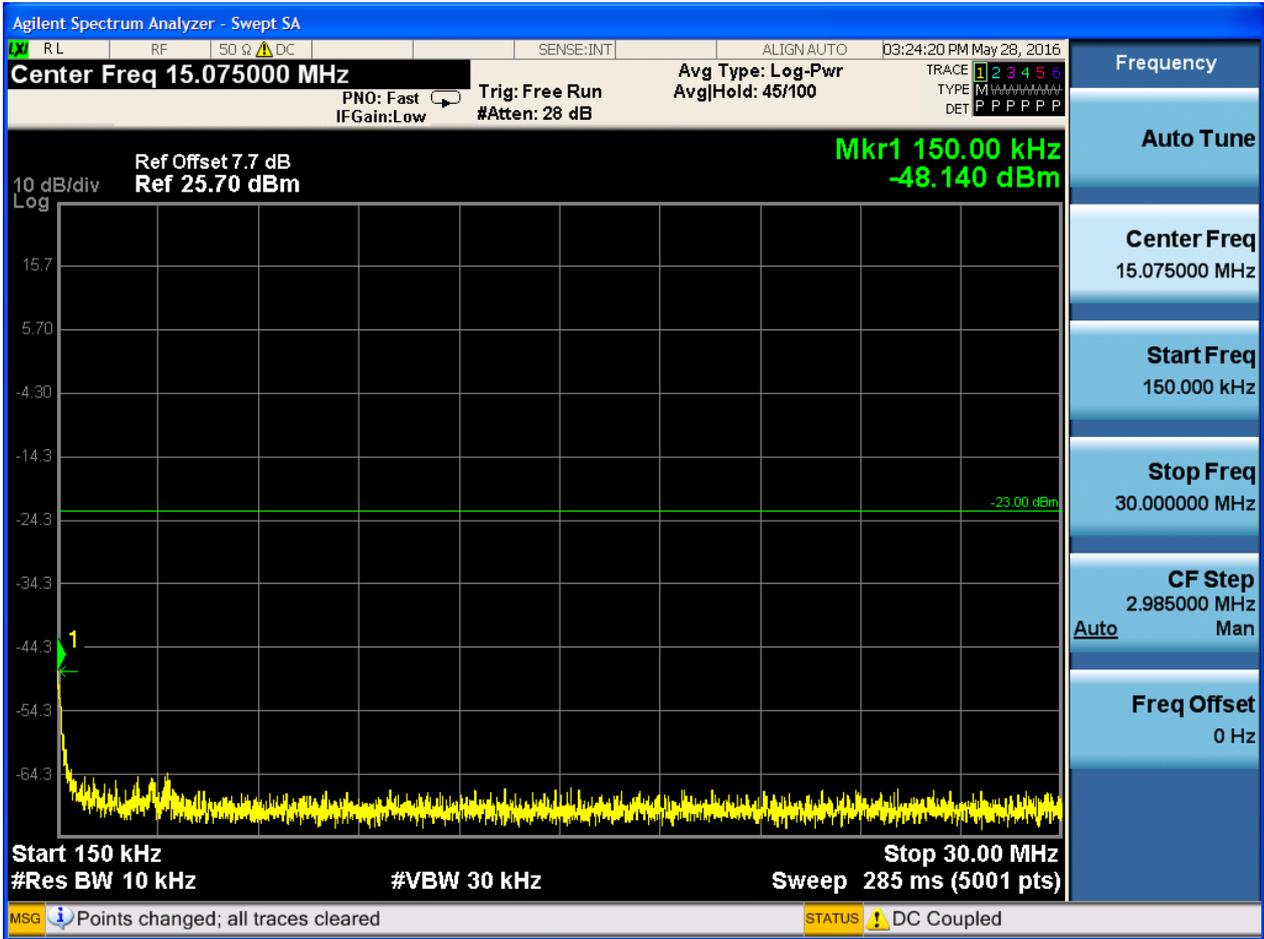
6.1.2.2 Test Mode = LTE/TM2

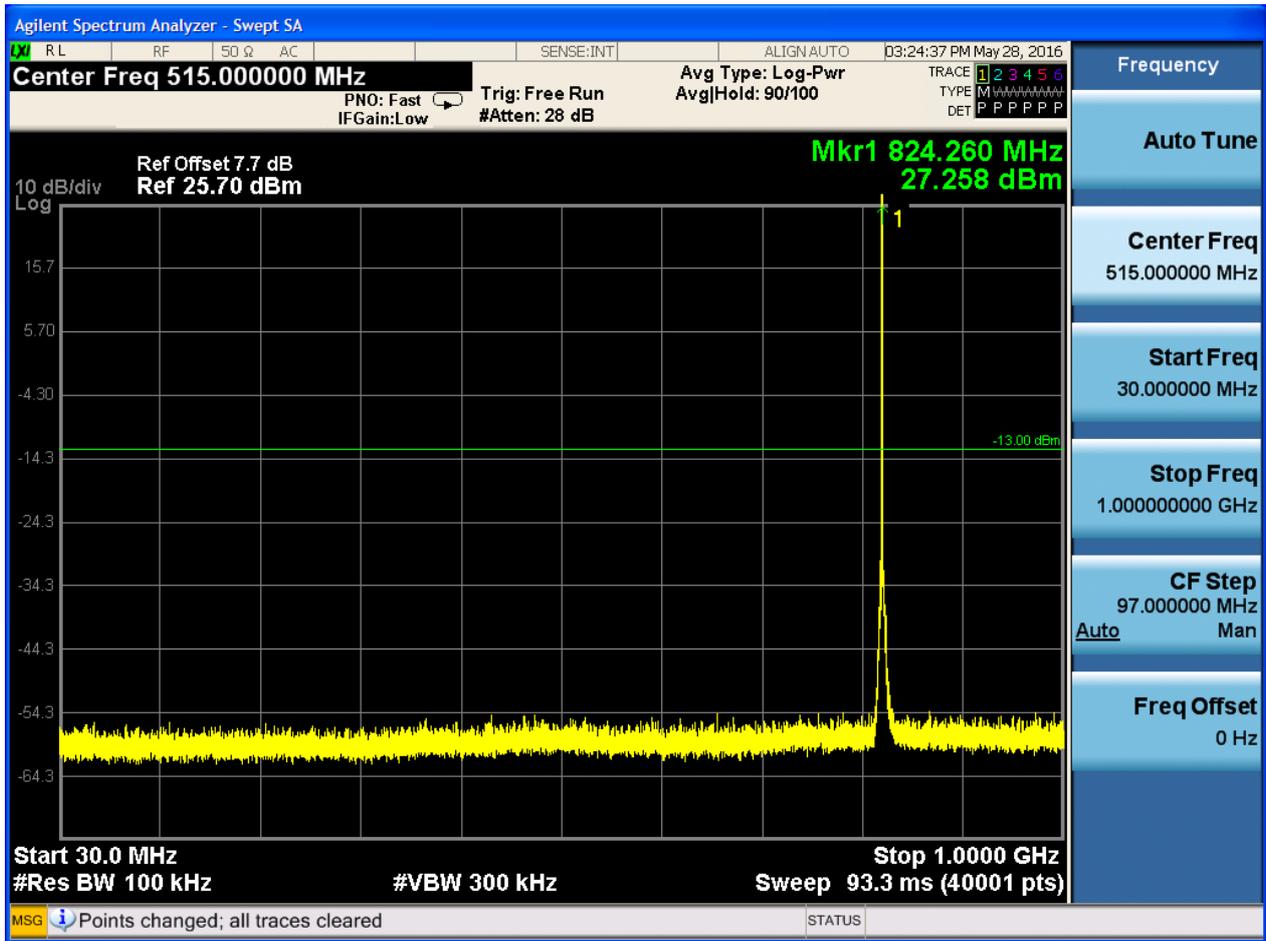
6.1.2.2.1 Test Bandwidth = 1.4

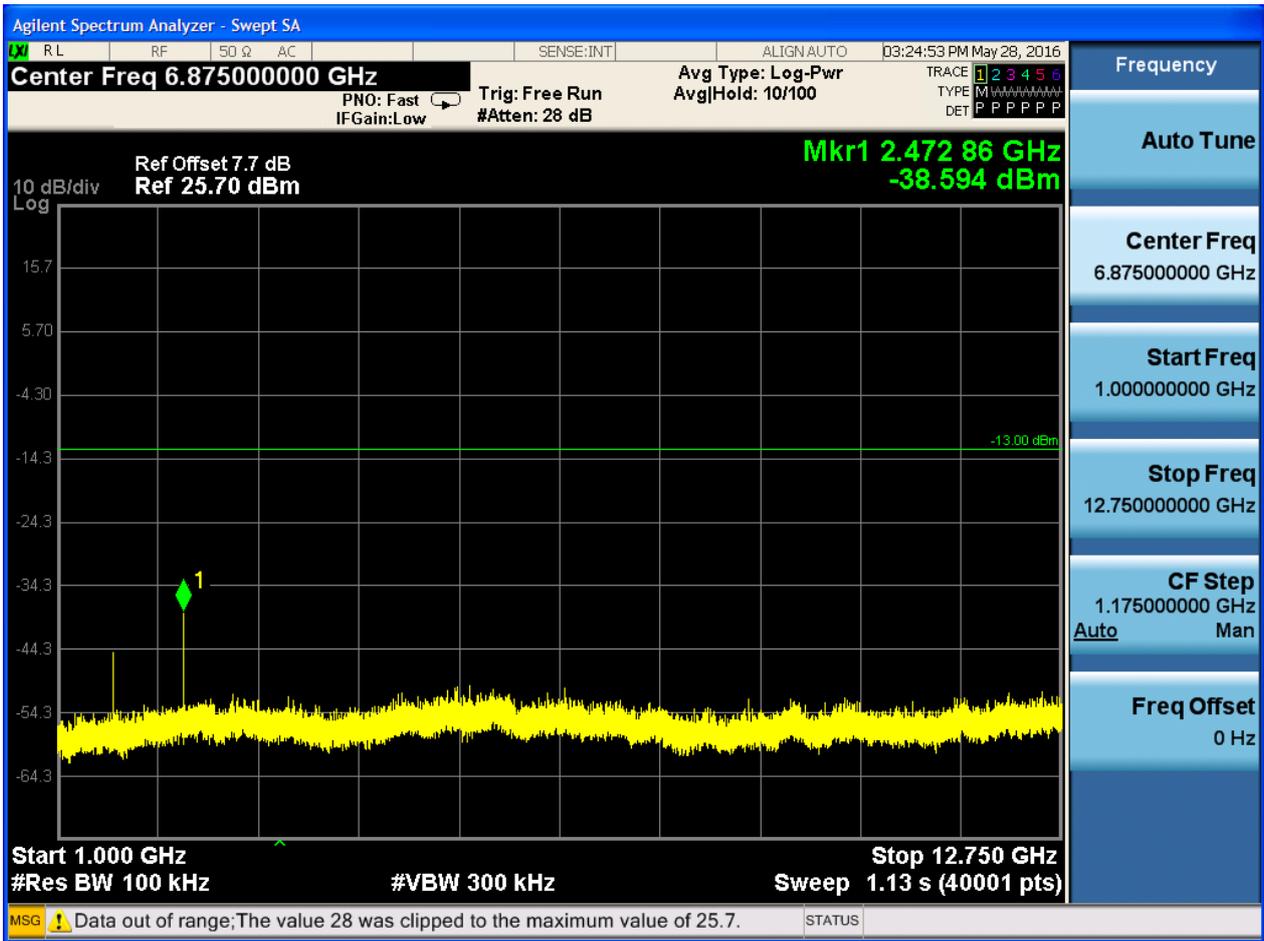
6.1.2.2.1.1 Test Channel = LCH

6.1.2.2.1.1.1 Test RB = RB1#0





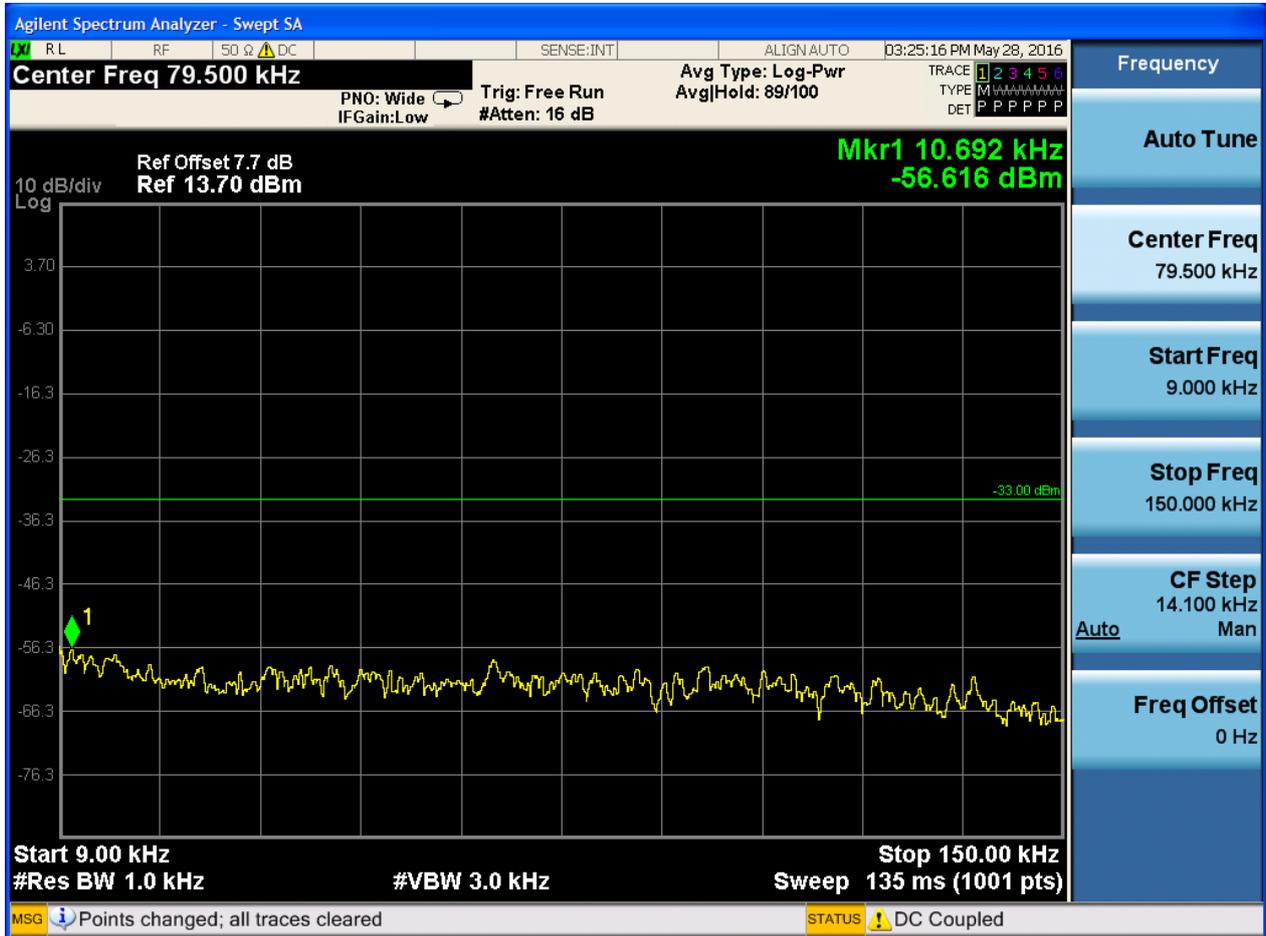


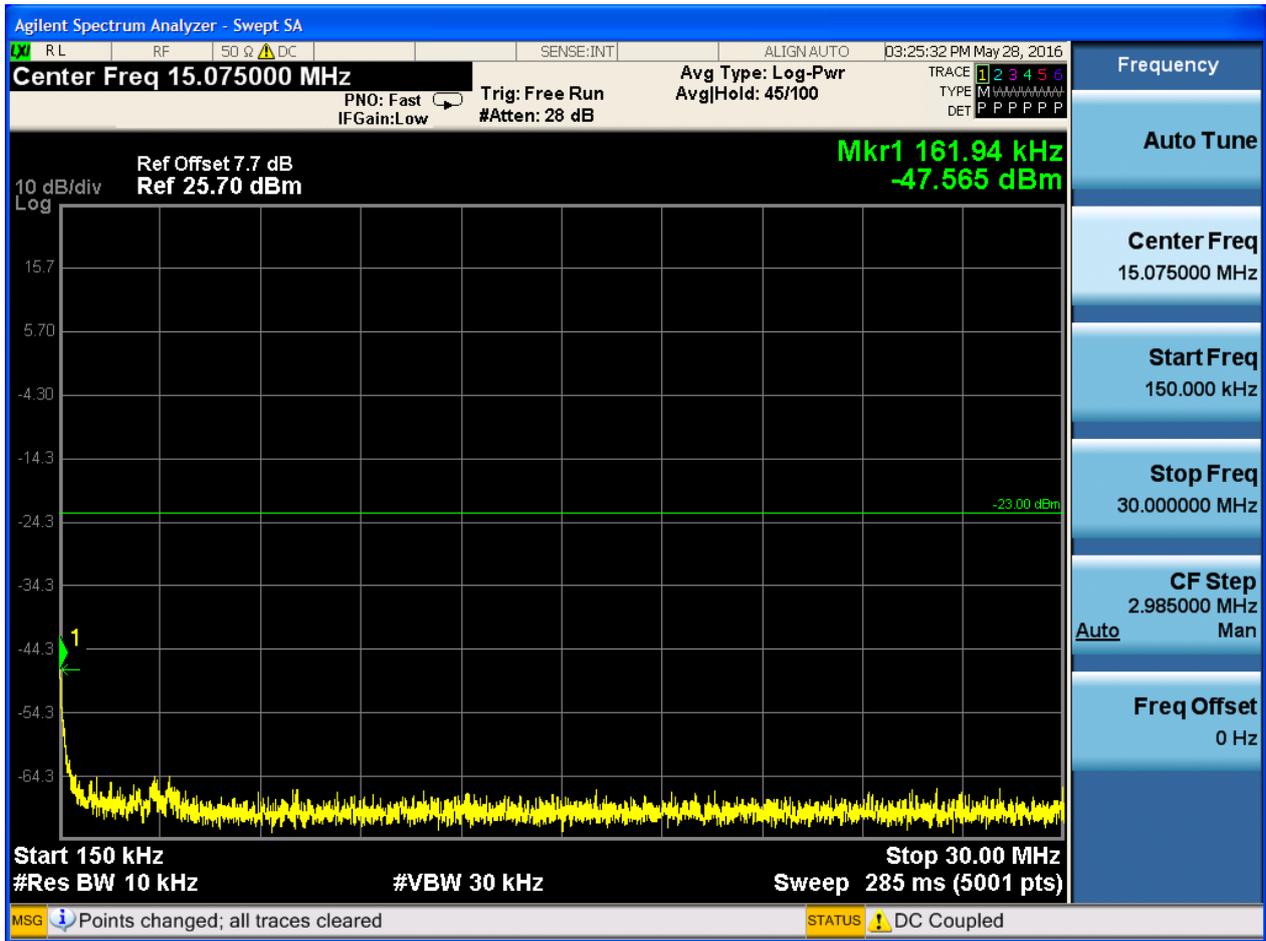


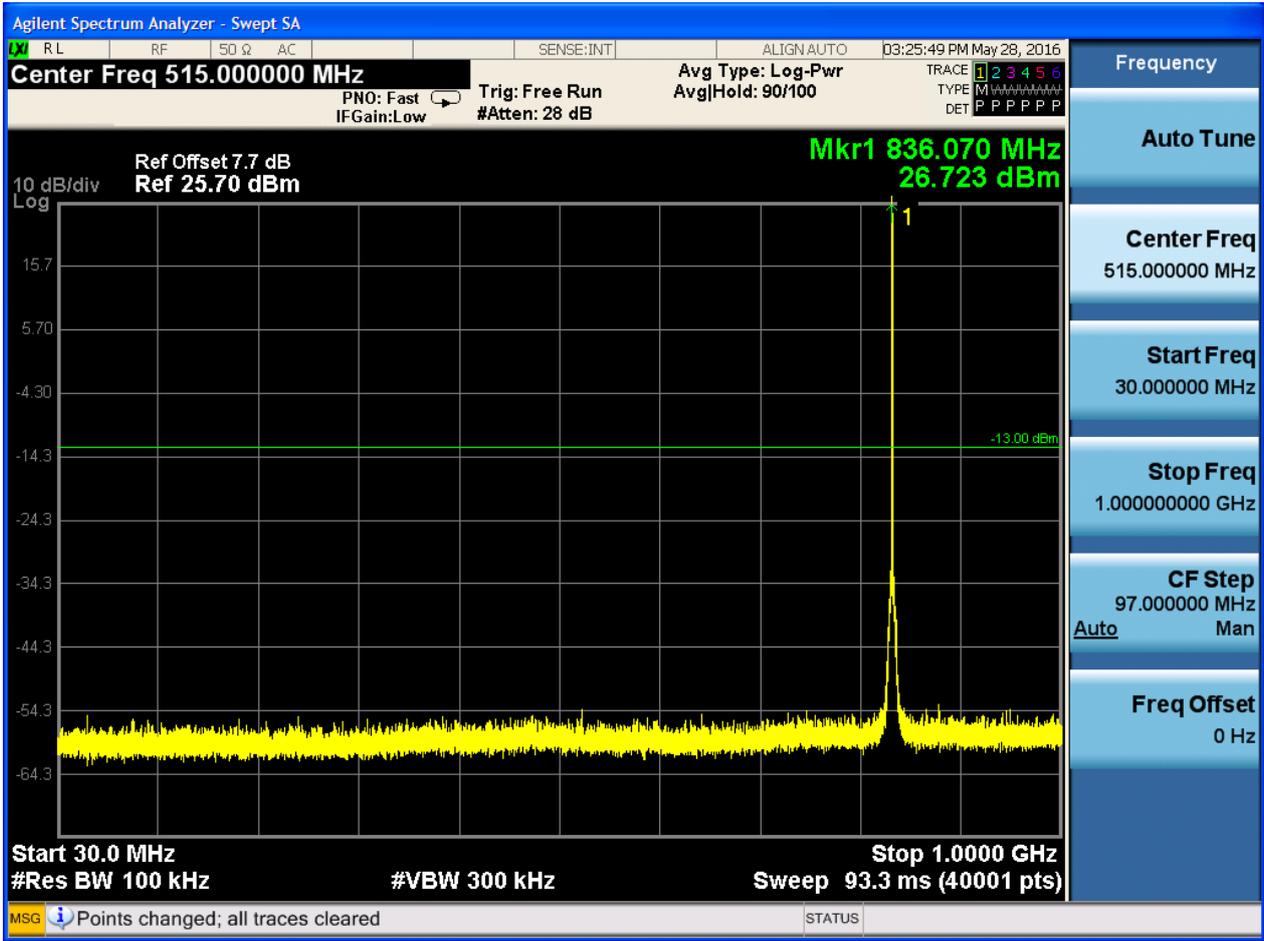


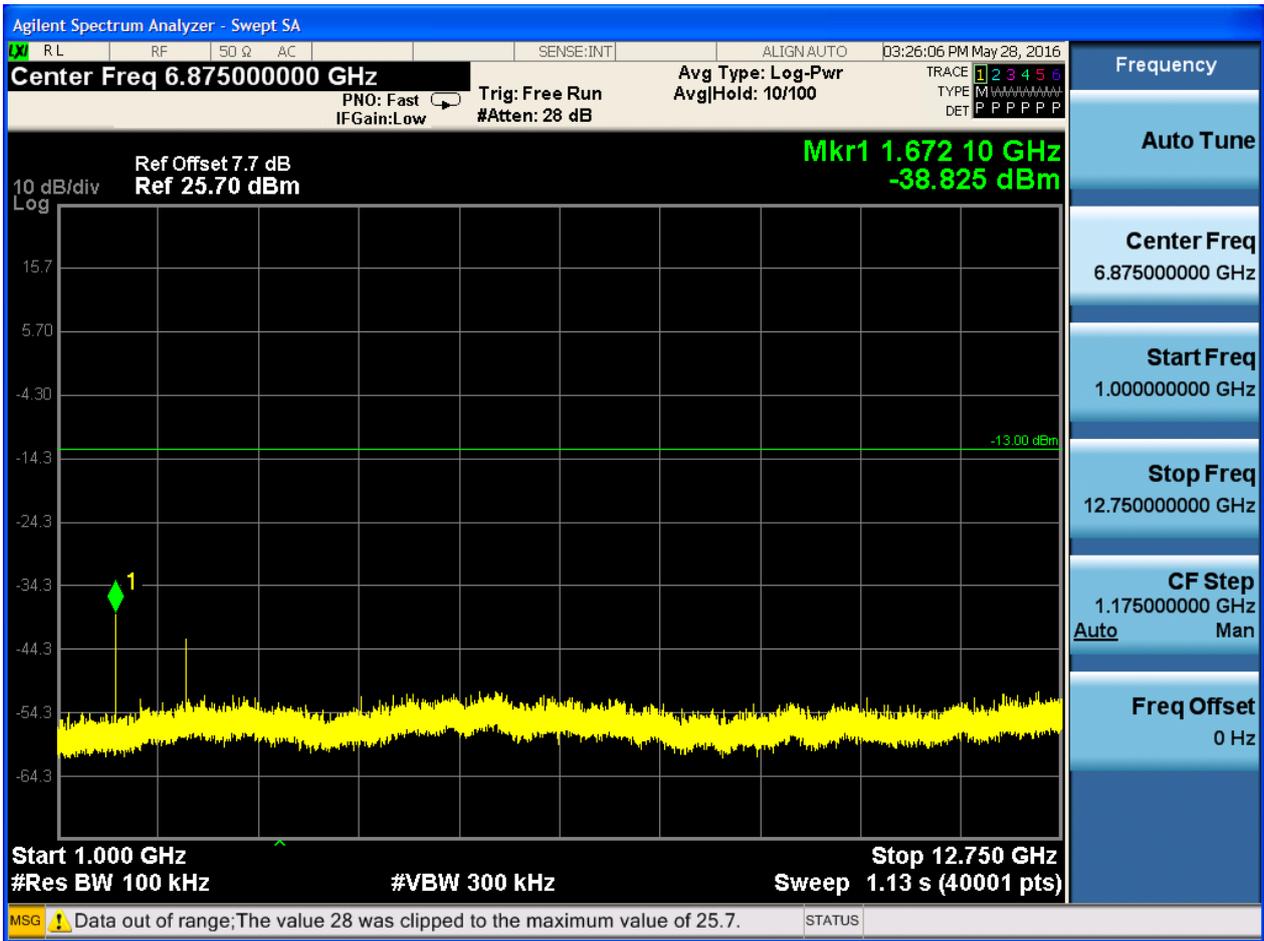
6.1.2.2.1.2 Test Channel = MCH

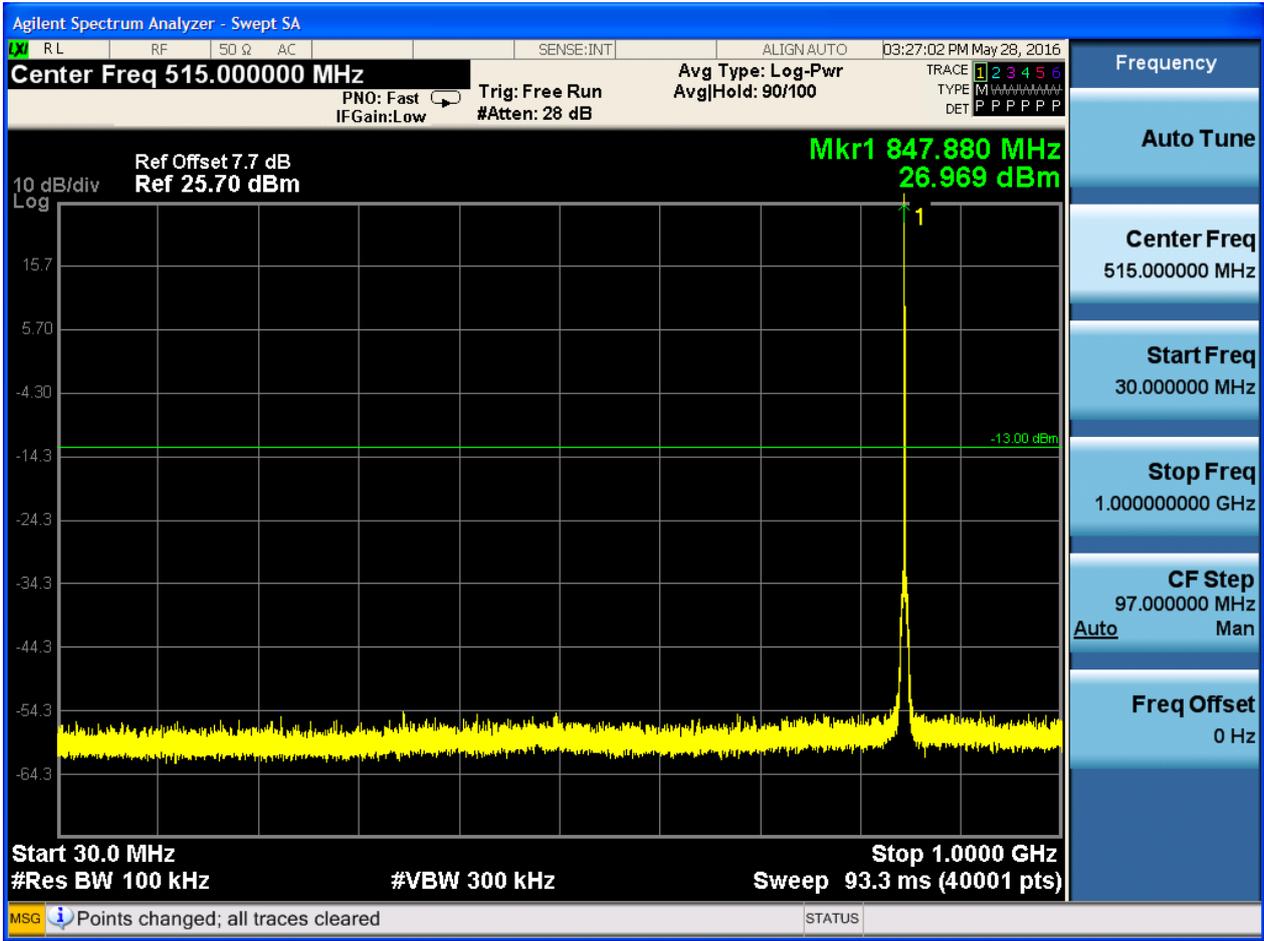
6.1.2.2.1.2.1 Test RB = RB1#0

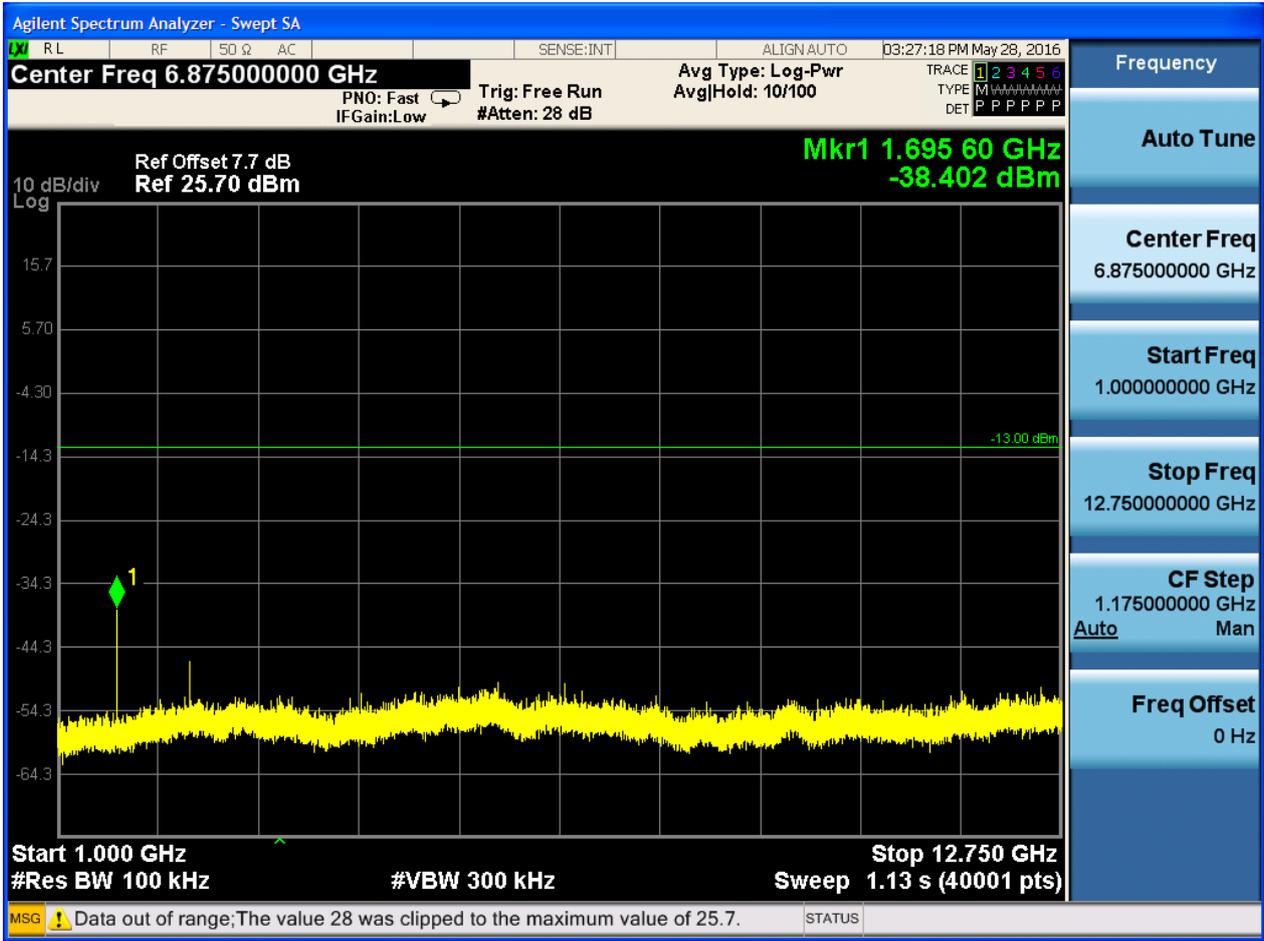










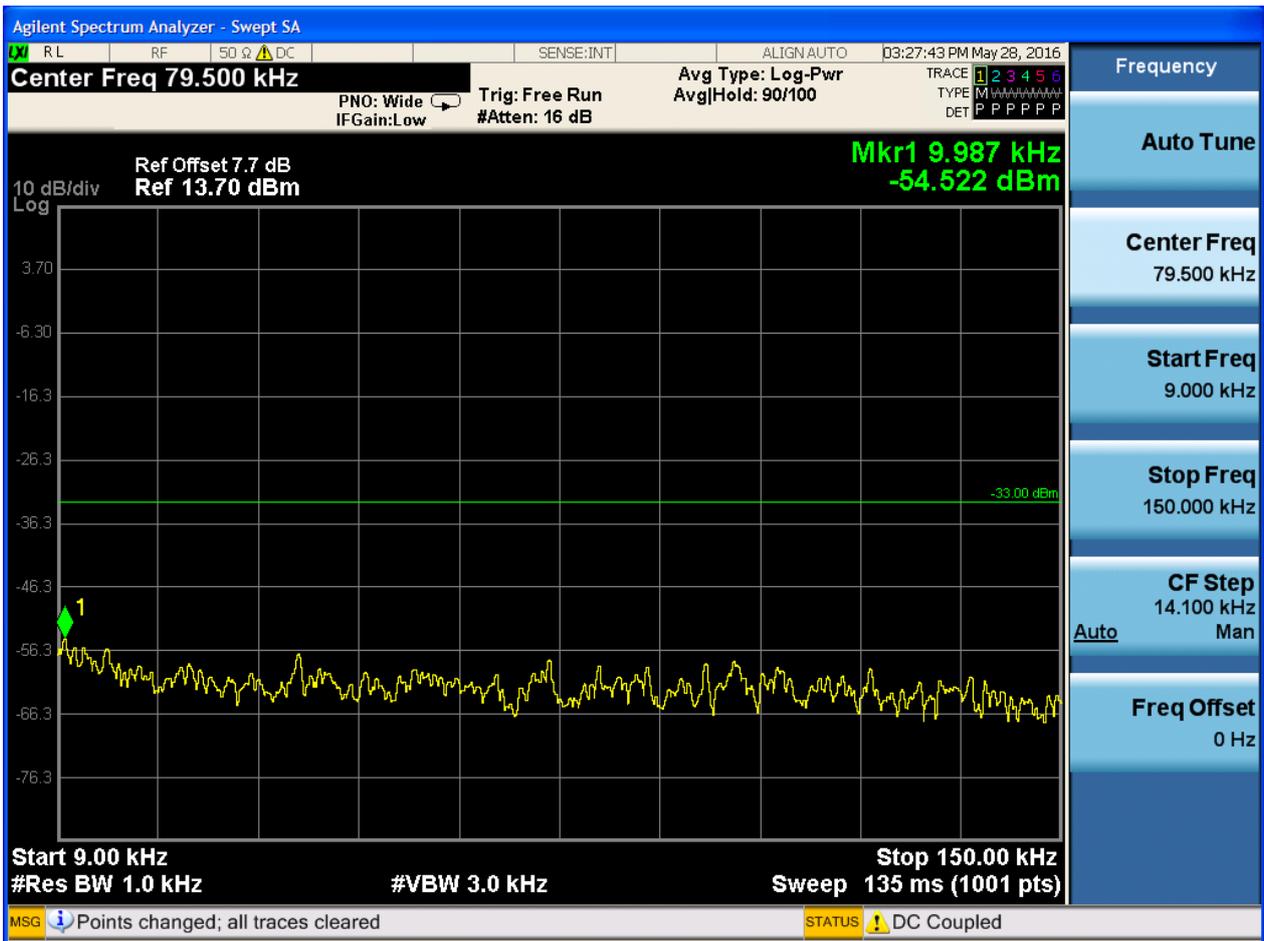




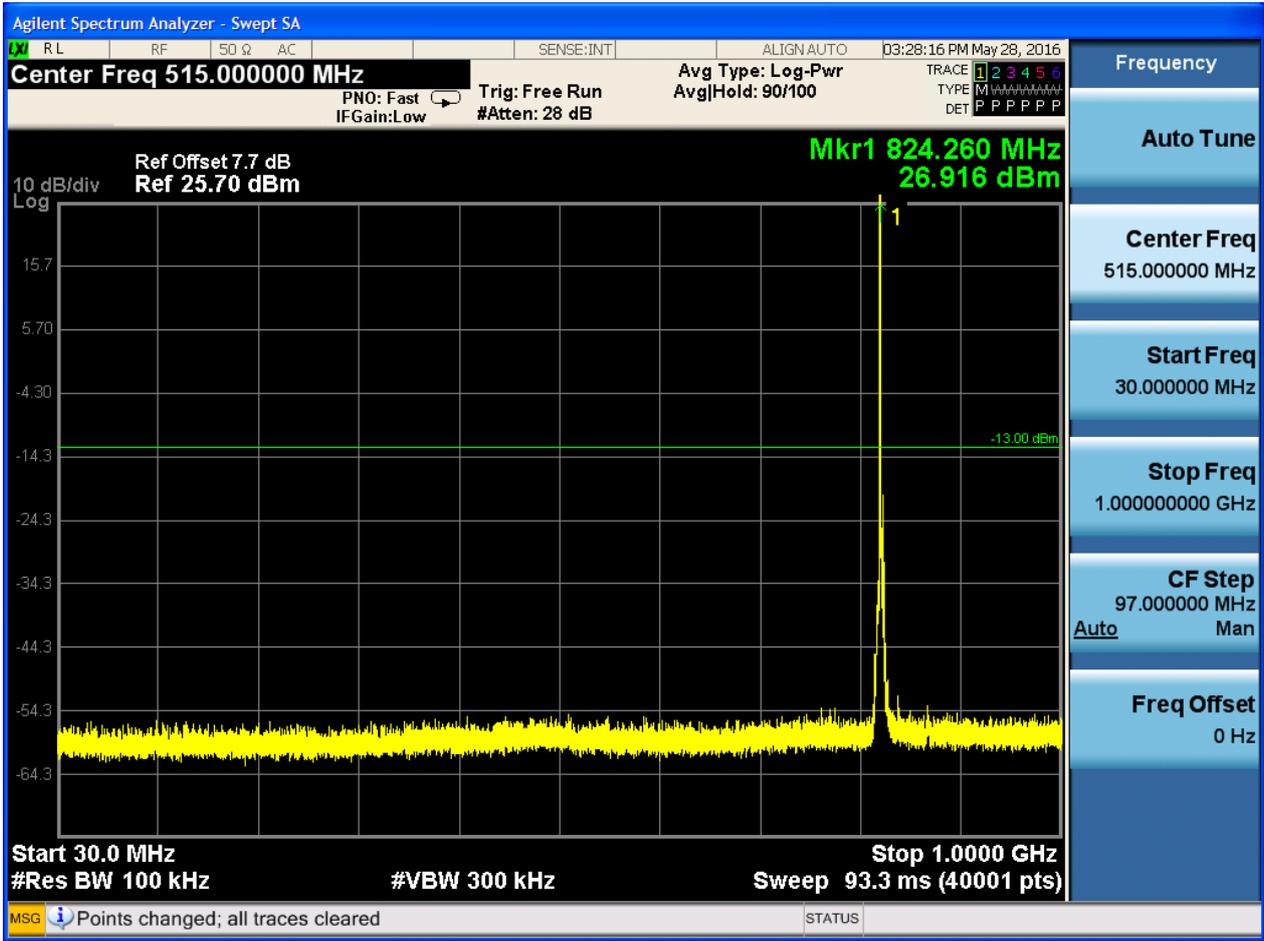
6.1.2.2.2 Test Bandwidth = 3

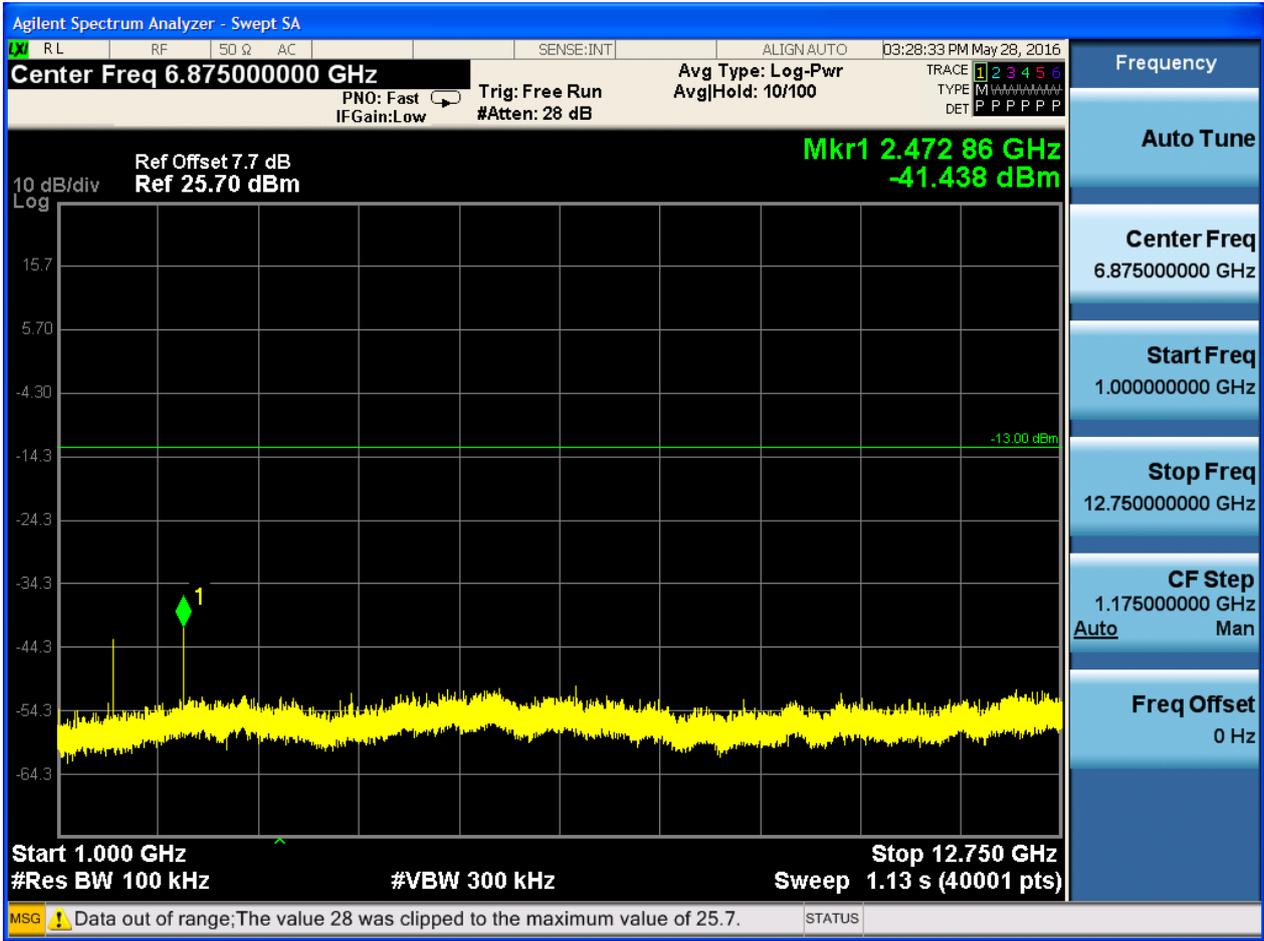
6.1.2.2.2.1 Test Channel = LCH

6.1.2.2.2.1.1 Test RB = RB1#0





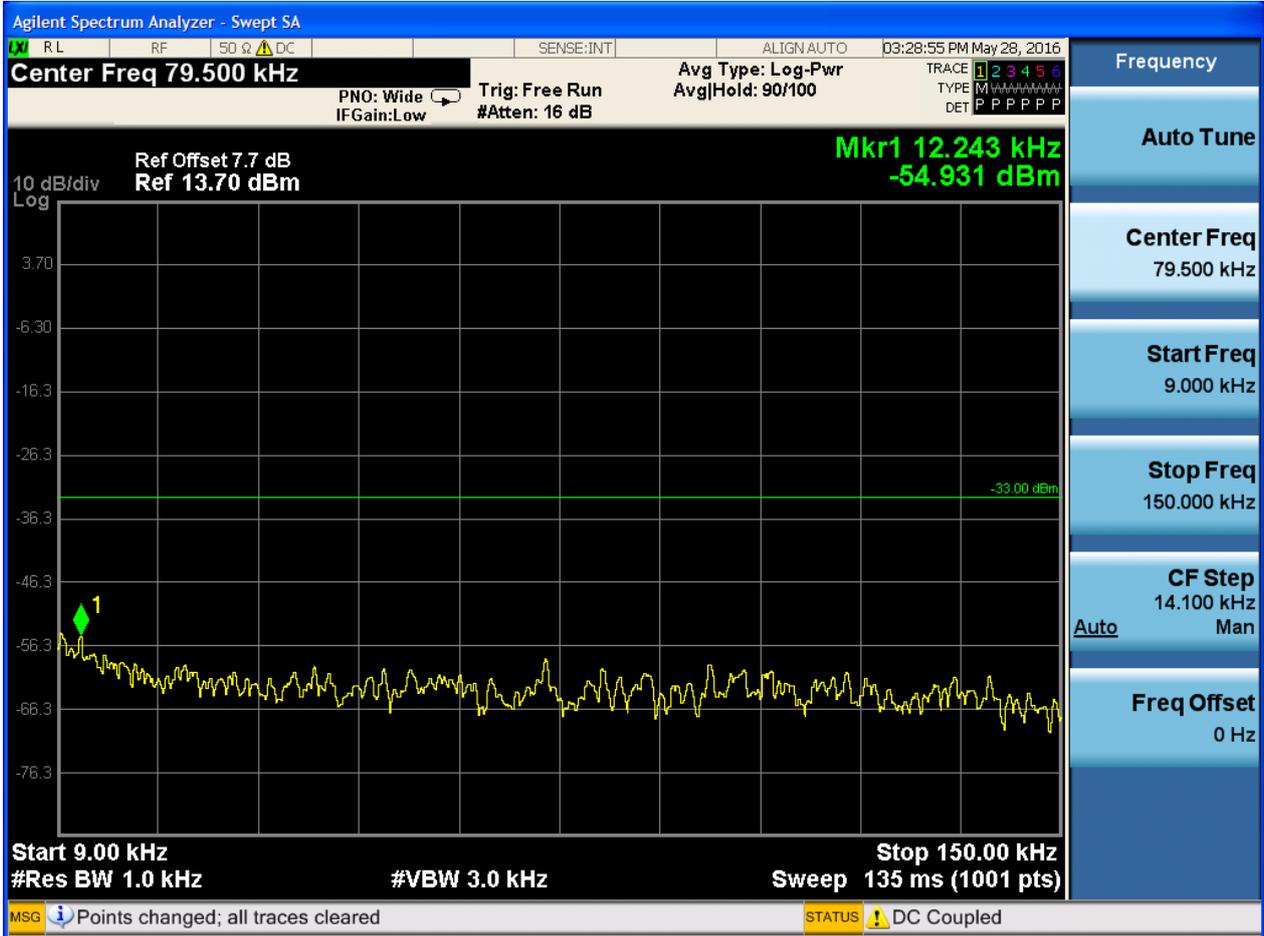


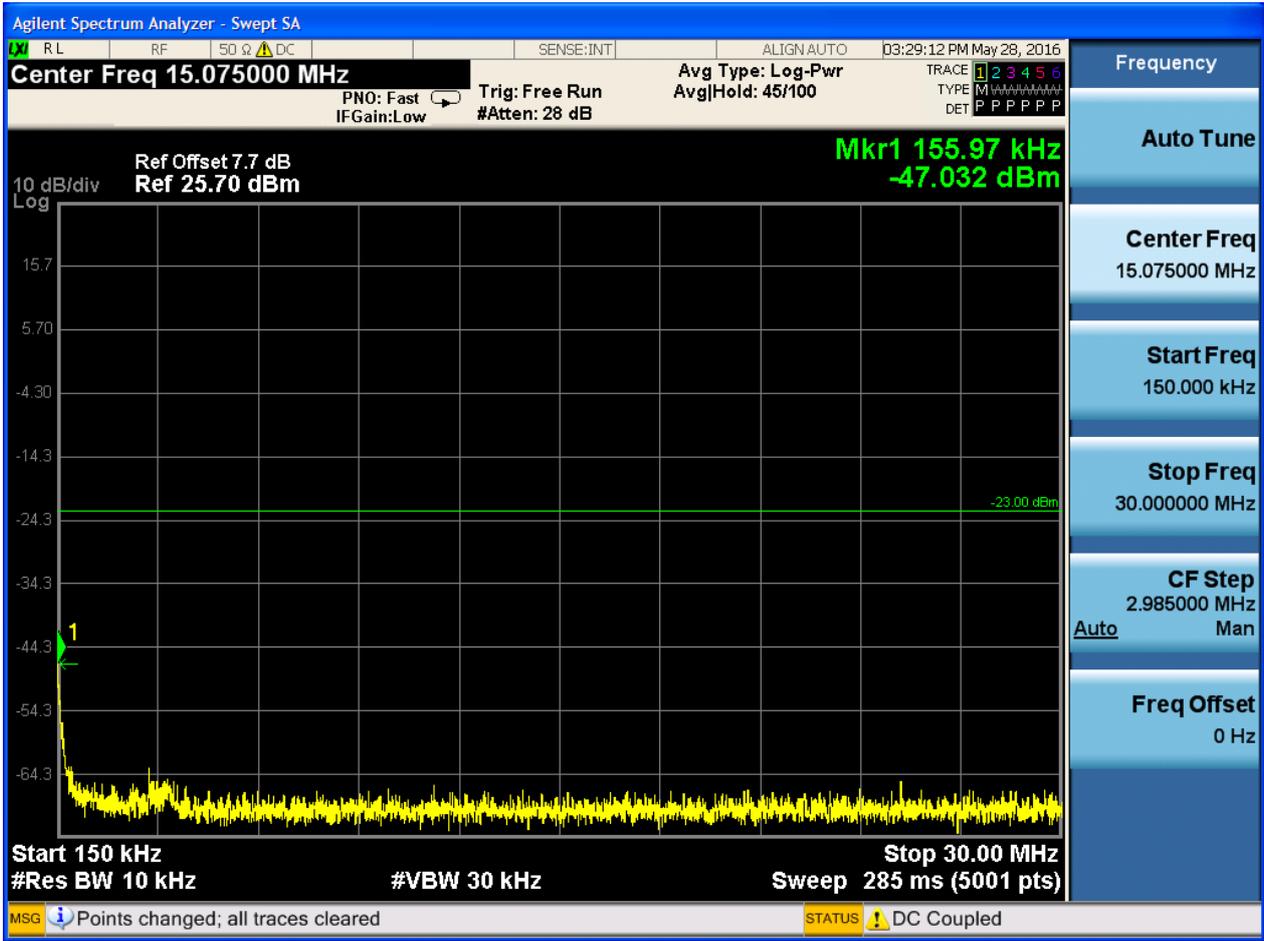


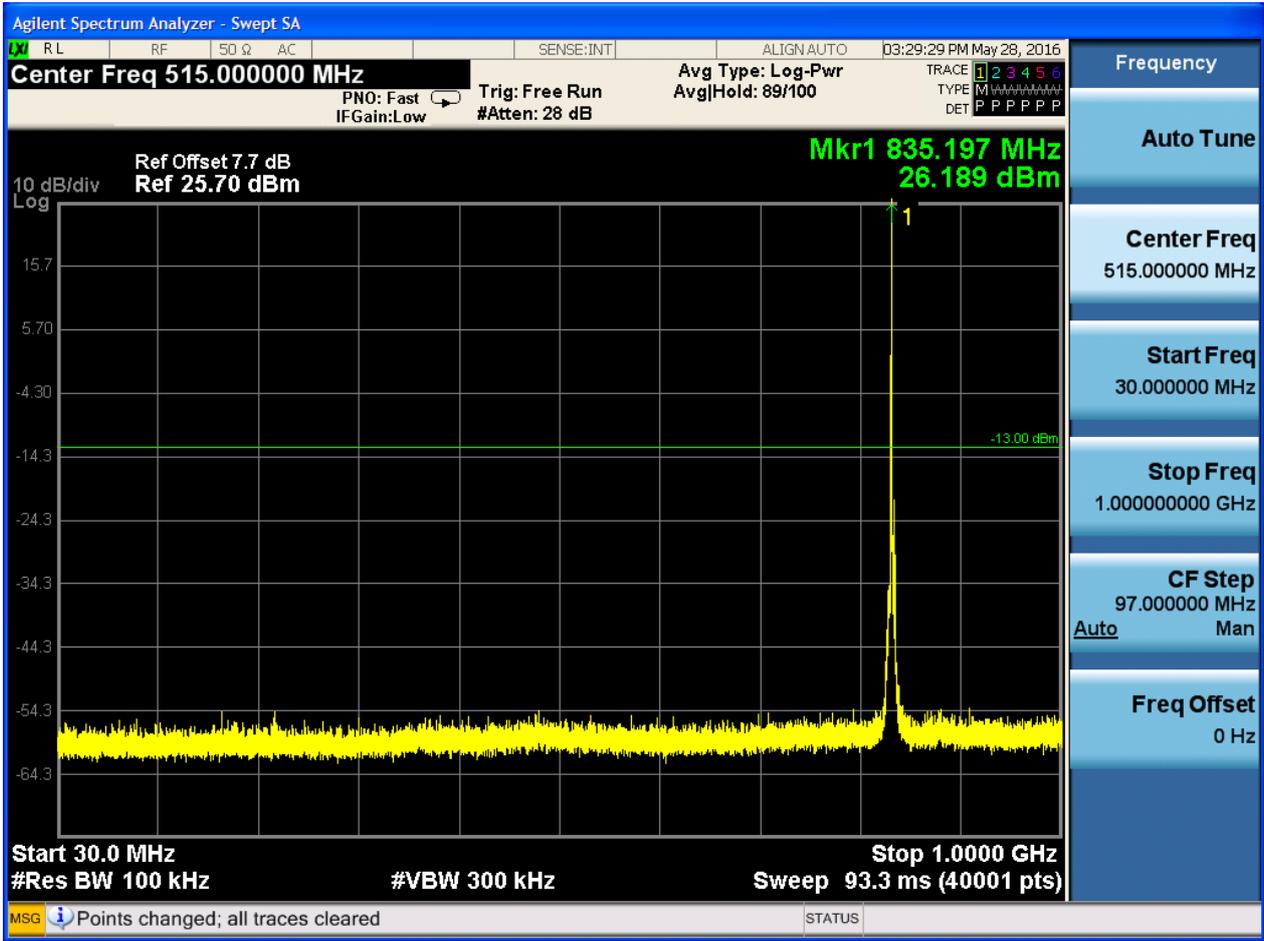


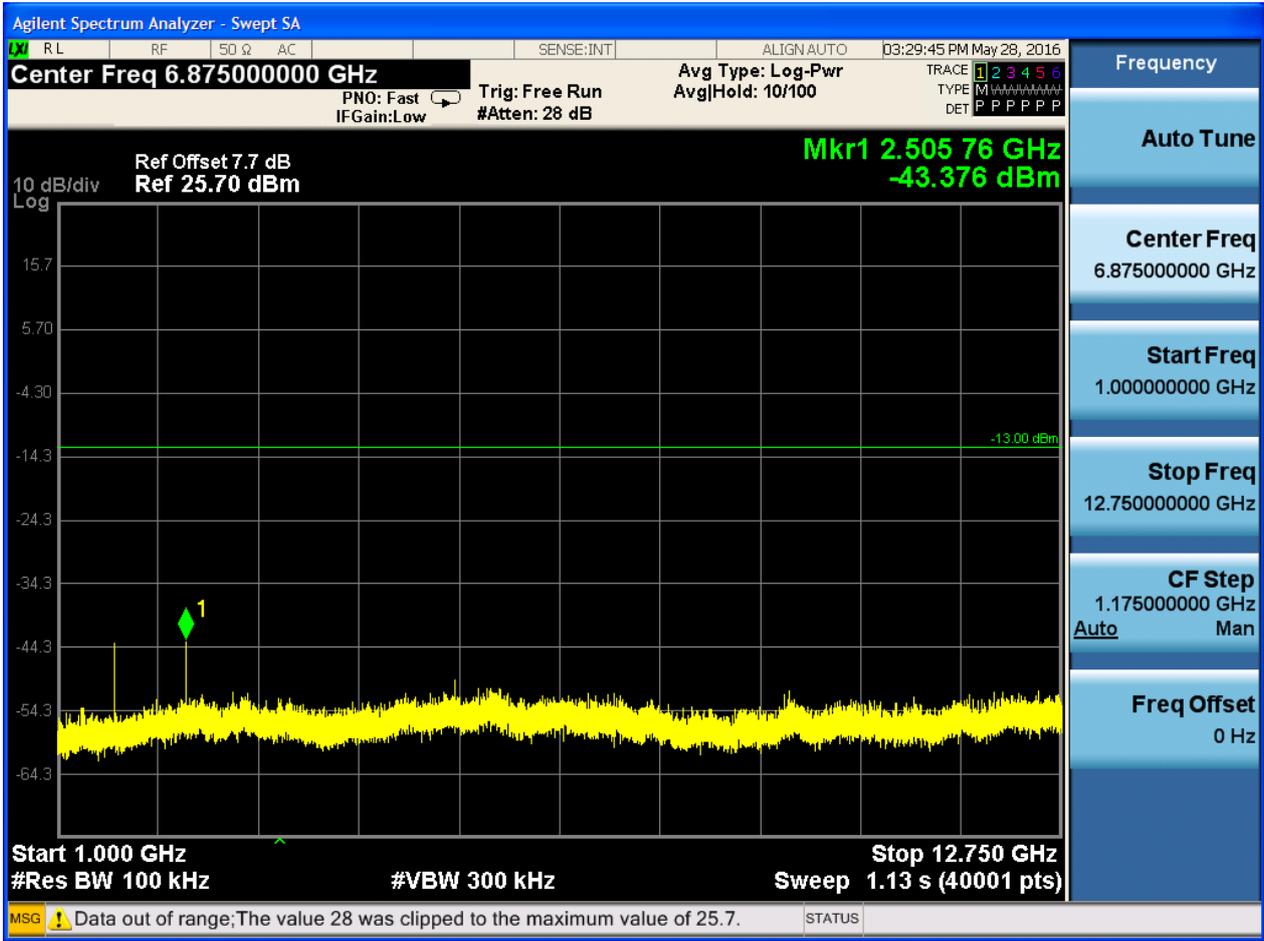
6.1.2.2.2 Test Channel = MCH

6.1.2.2.2.1 Test RB = RB1#0





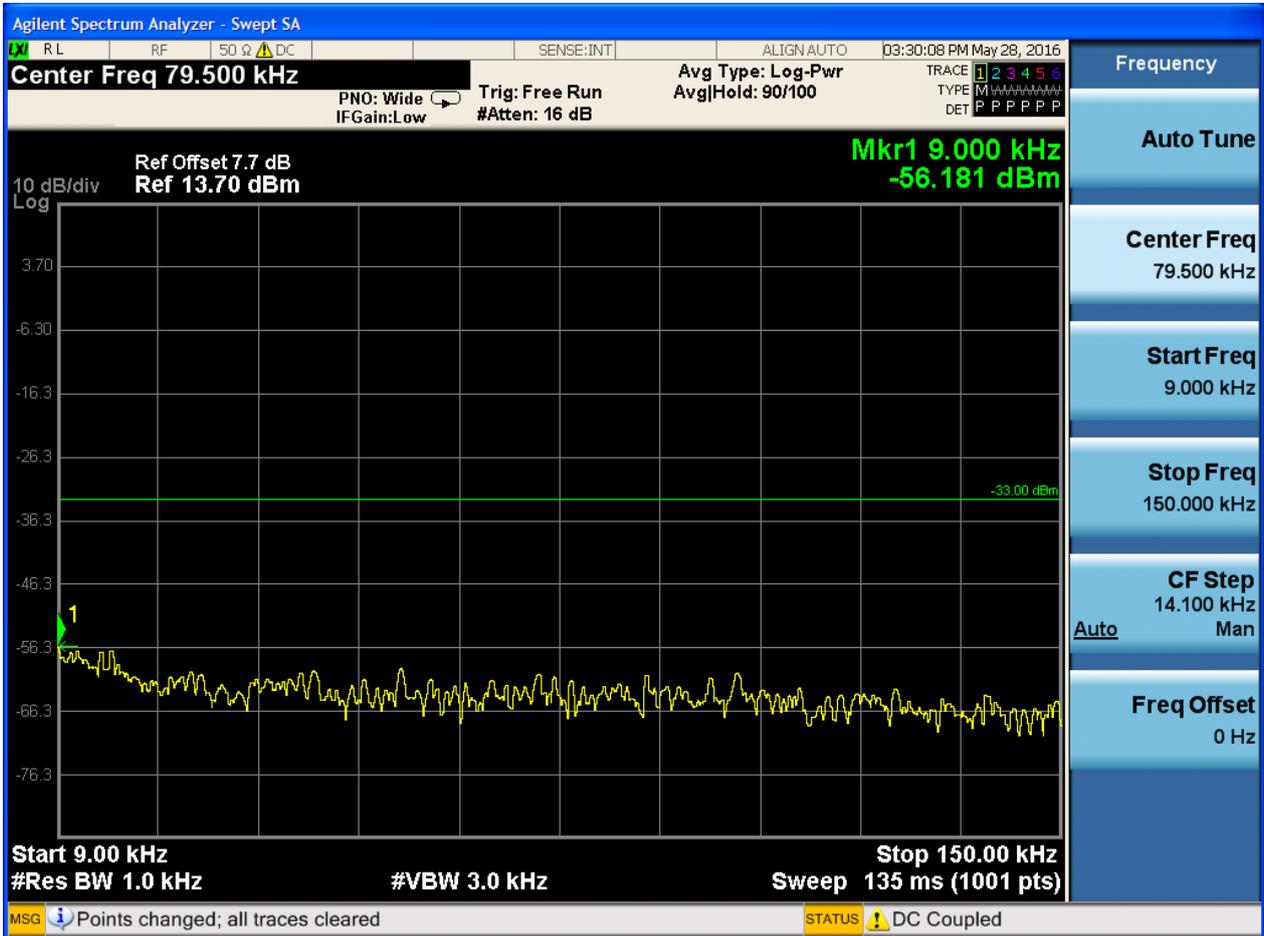


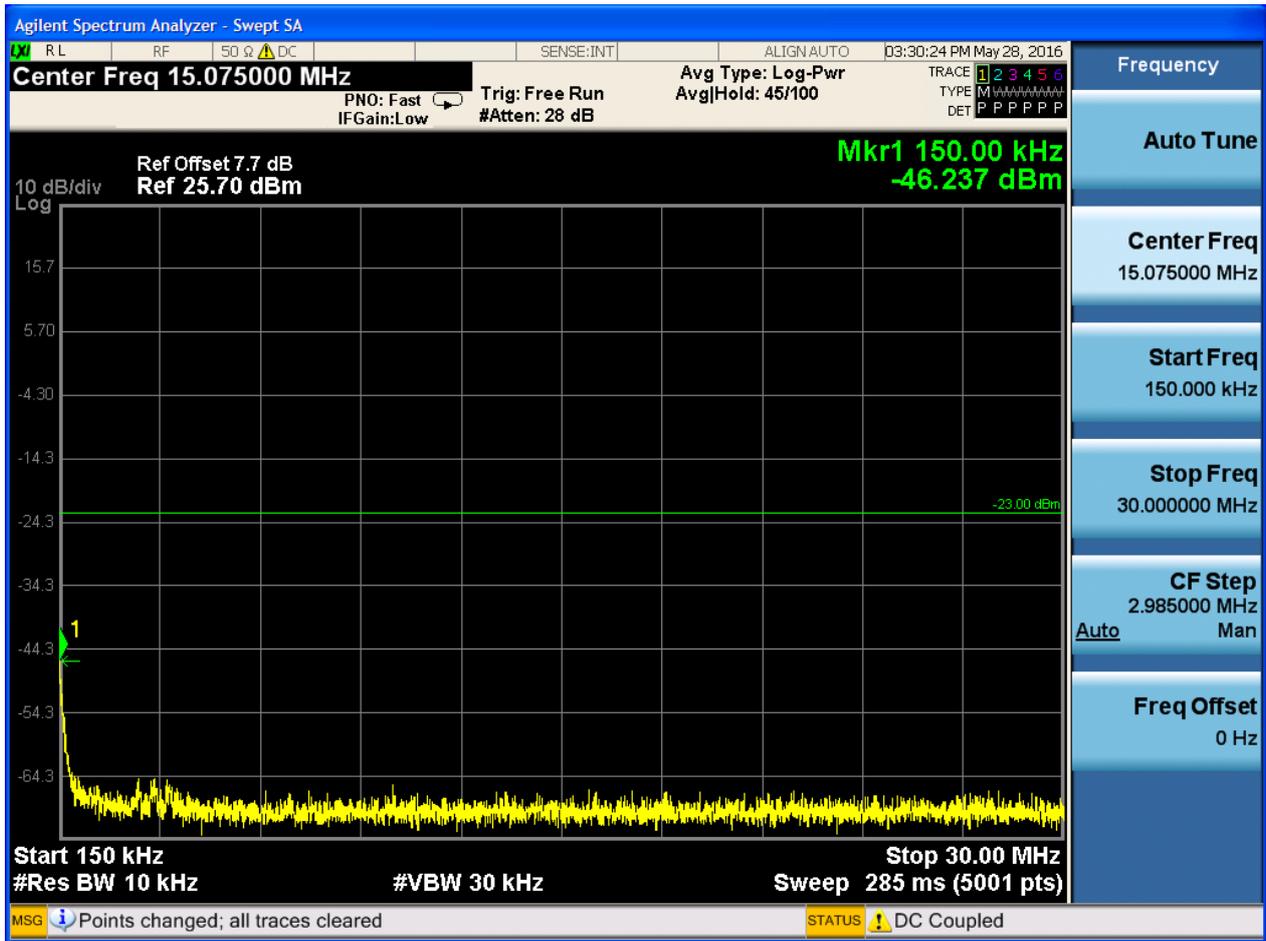


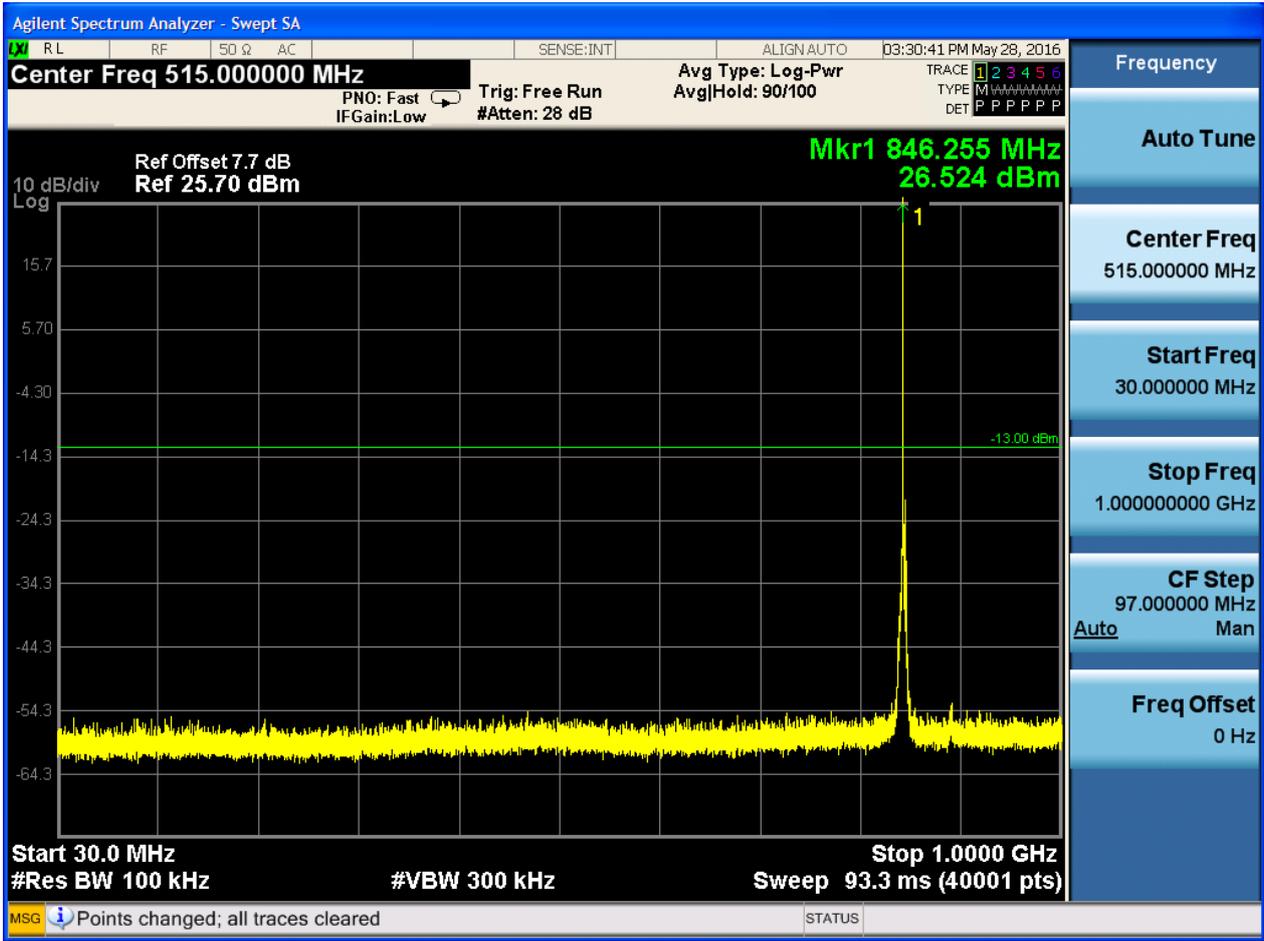


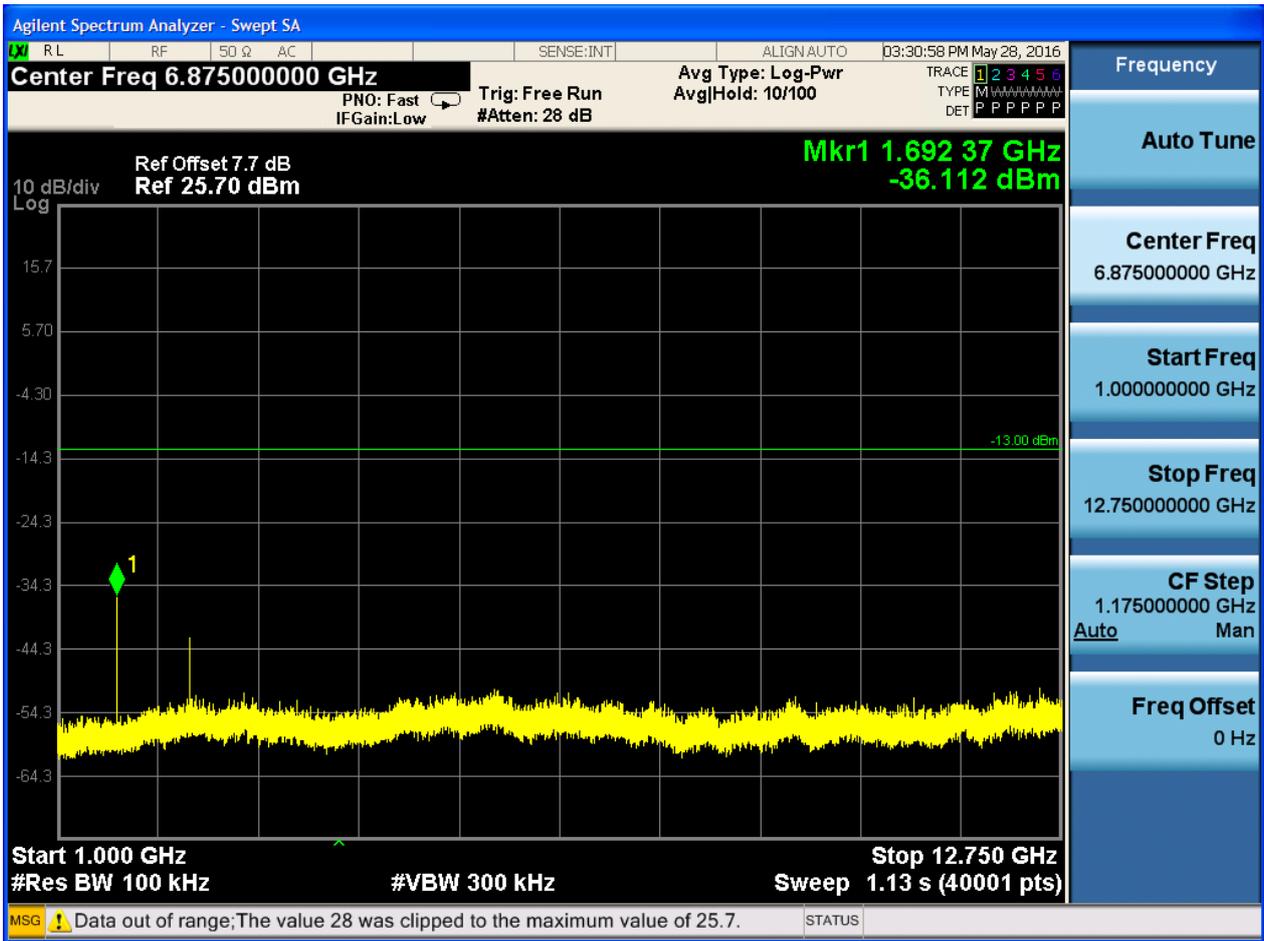
6.1.2.2.2.3 Test Channel = HCH

6.1.2.2.2.3.1 Test RB = RB1#0







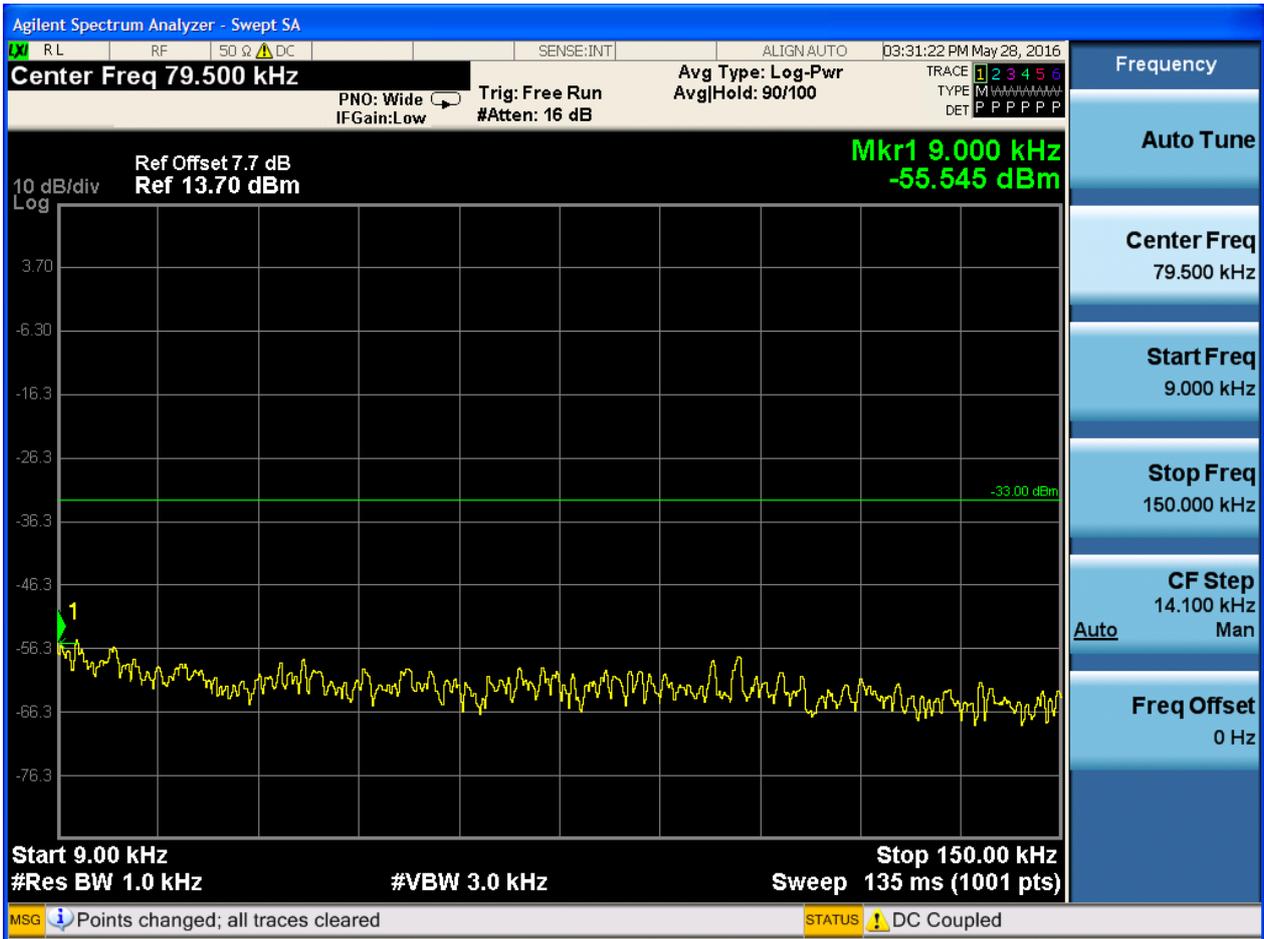


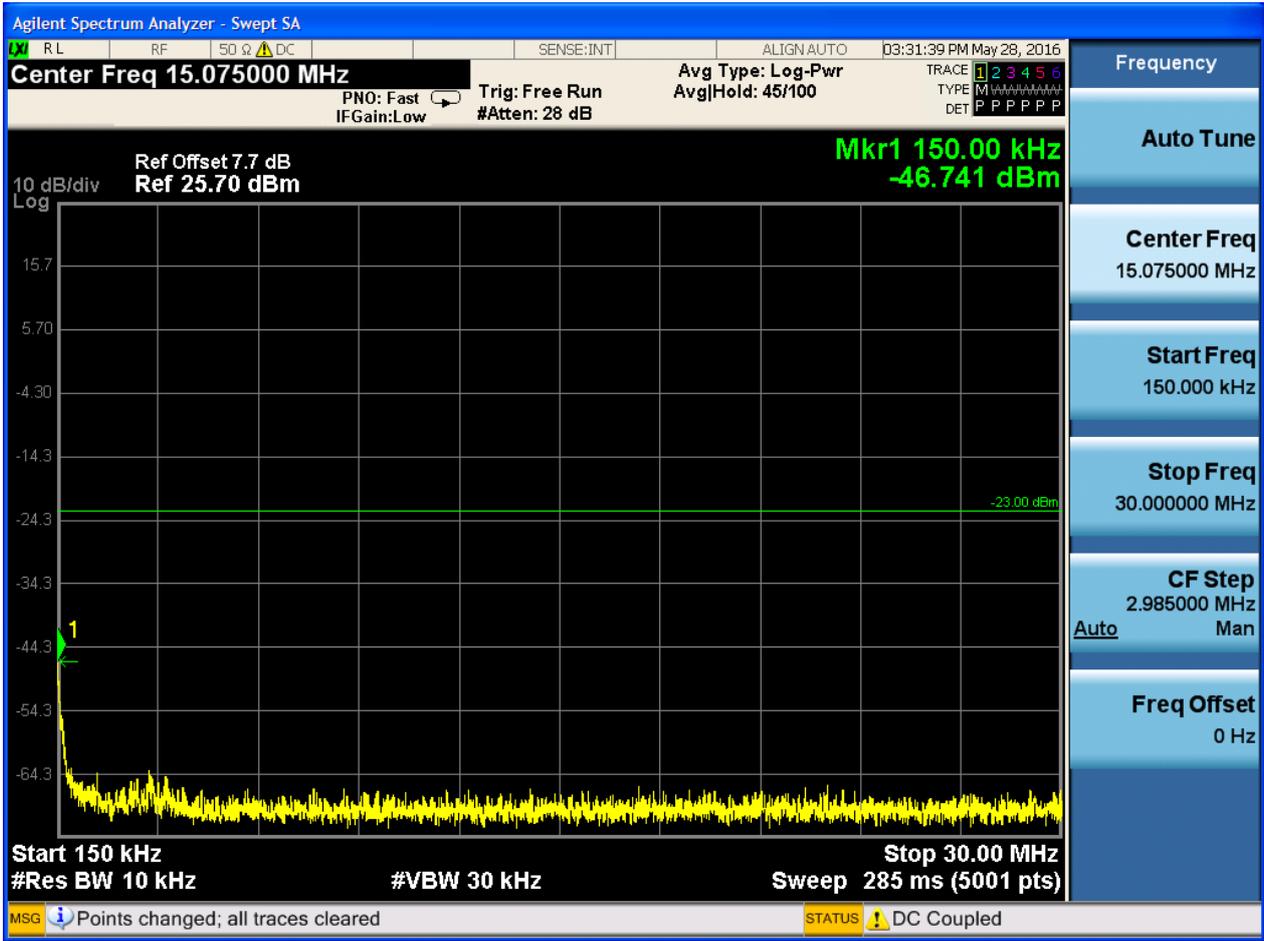


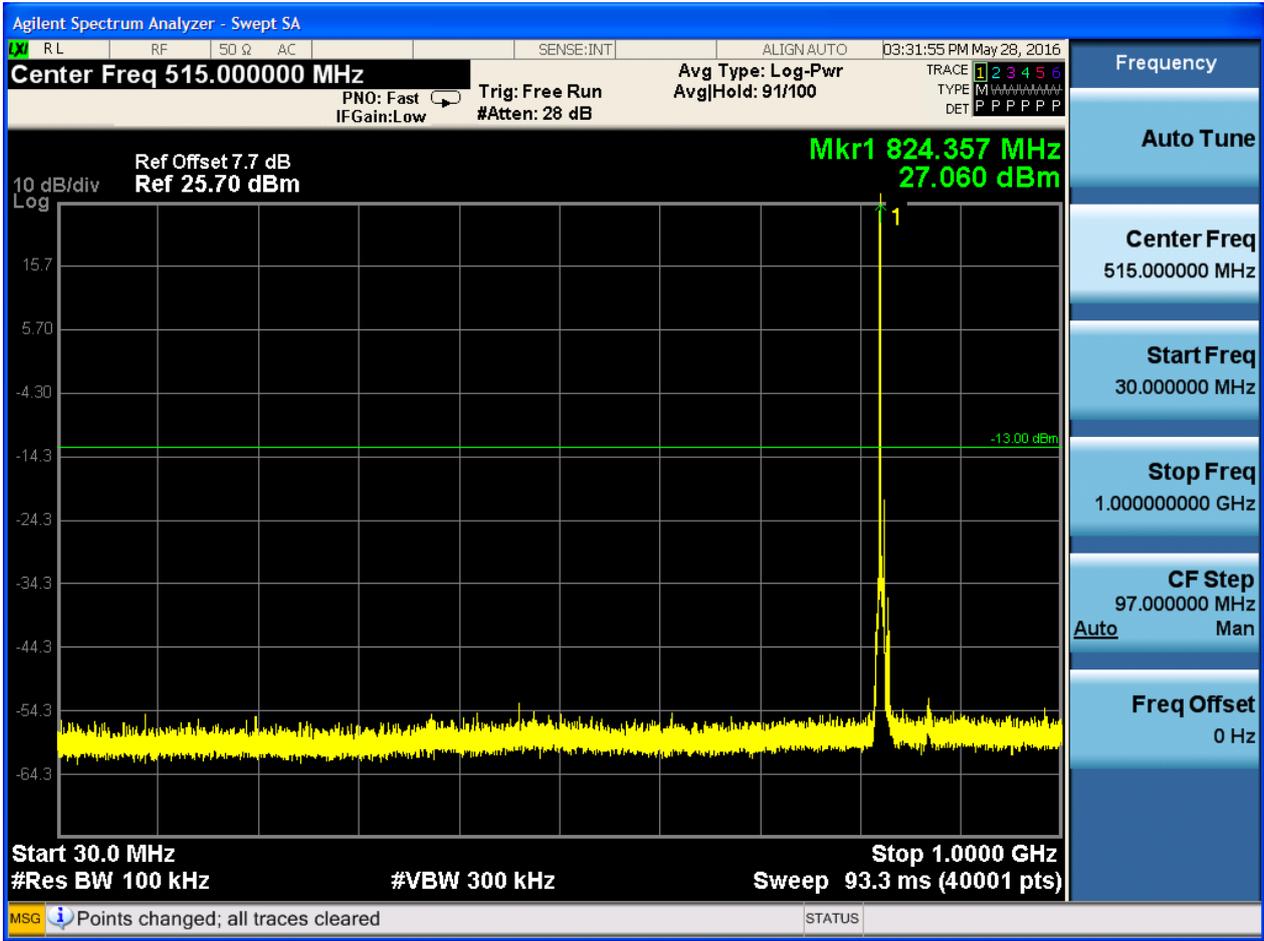
6.1.2.2.3 Test Bandwidth = 5

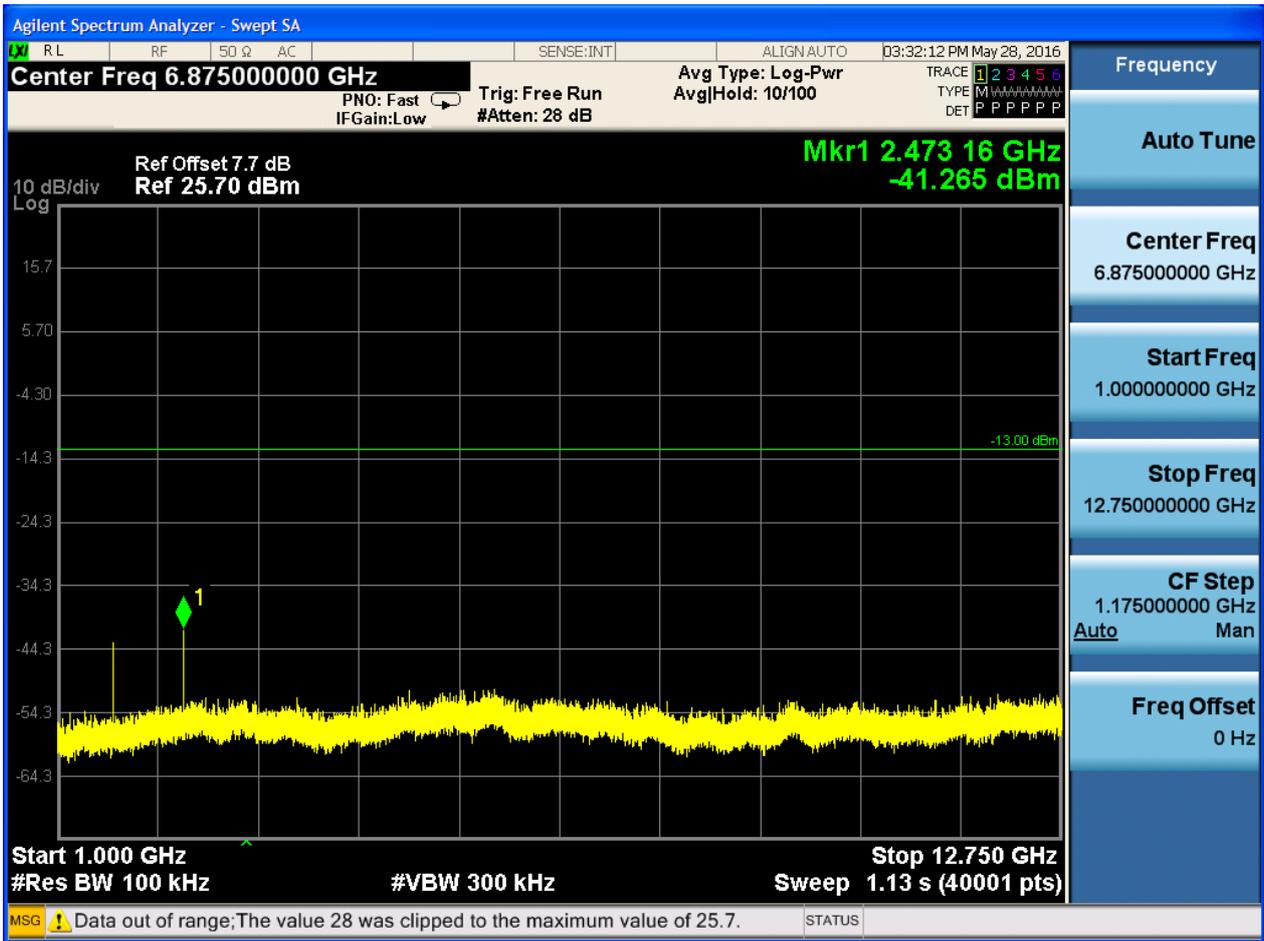
6.1.2.2.3.1 Test Channel = LCH

6.1.2.2.3.1.1 Test RB = RB1#0





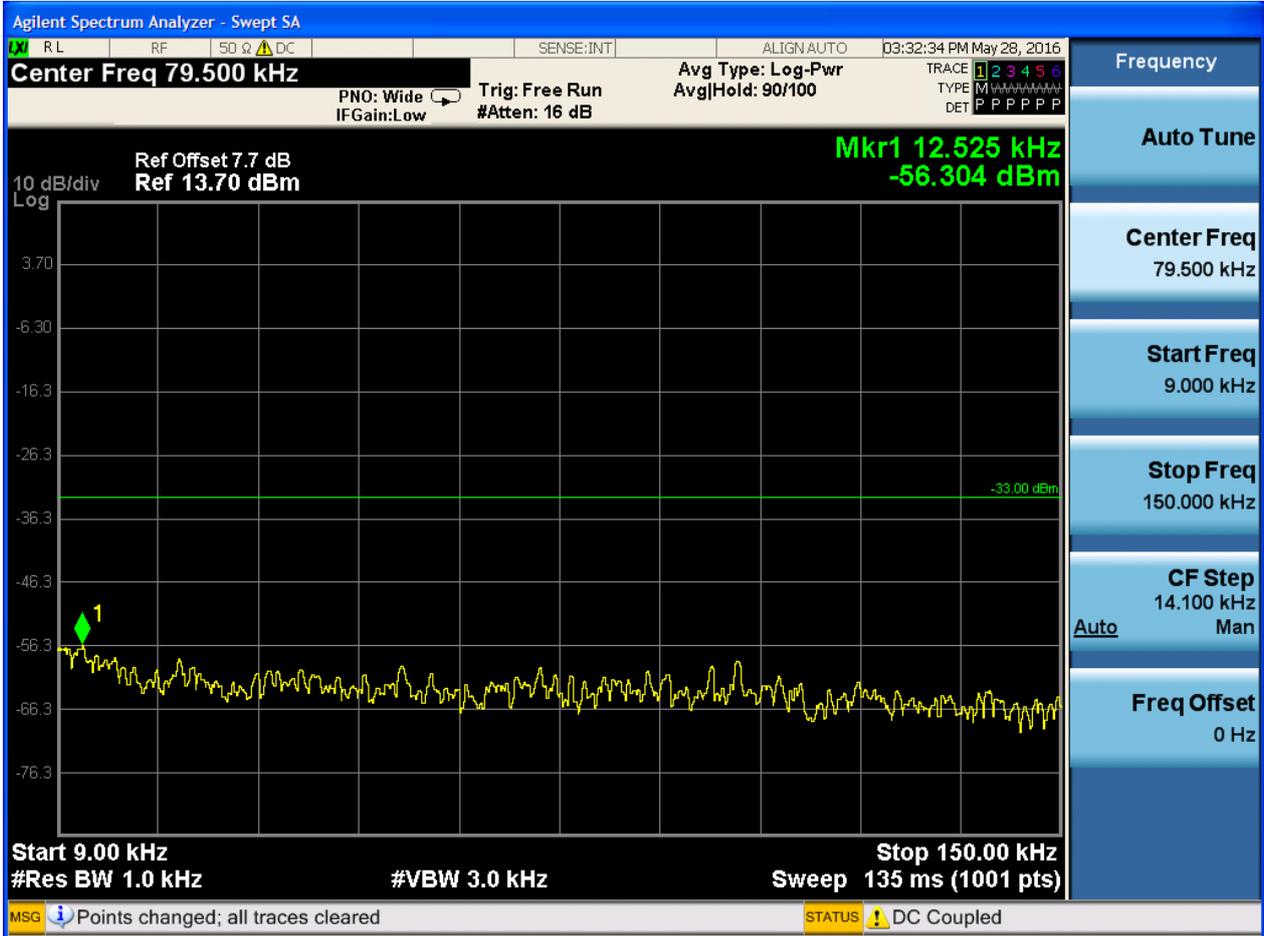


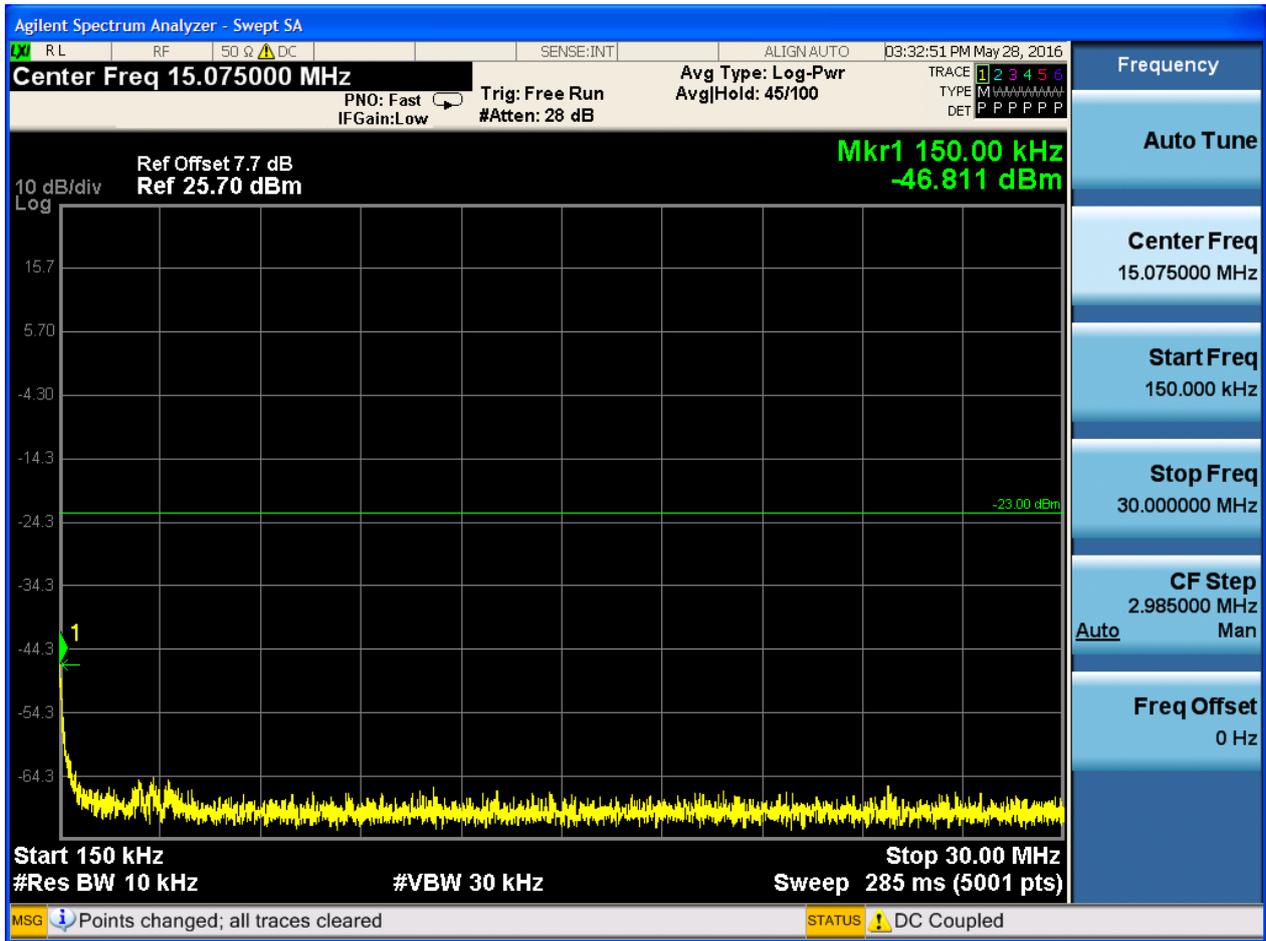


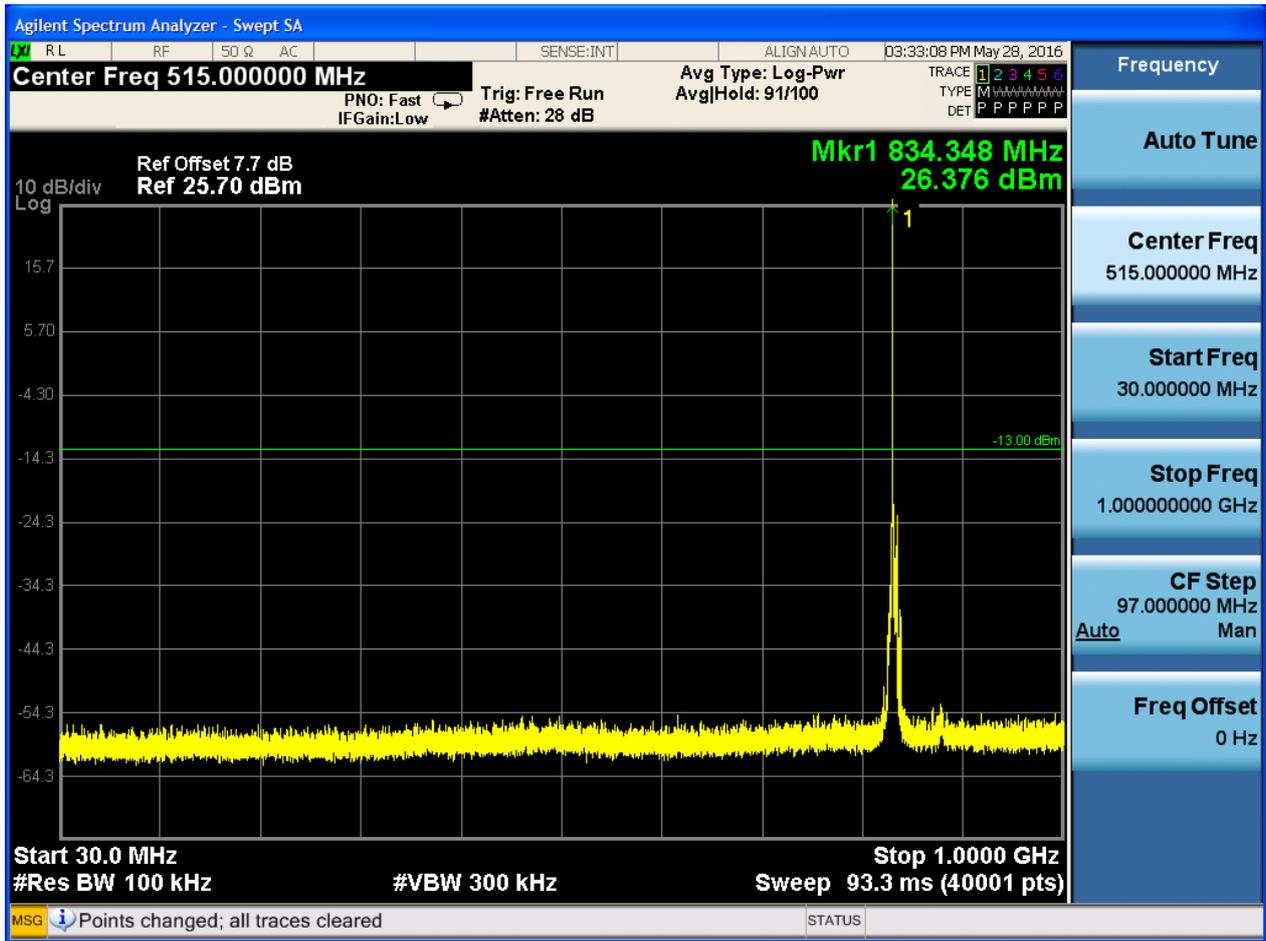


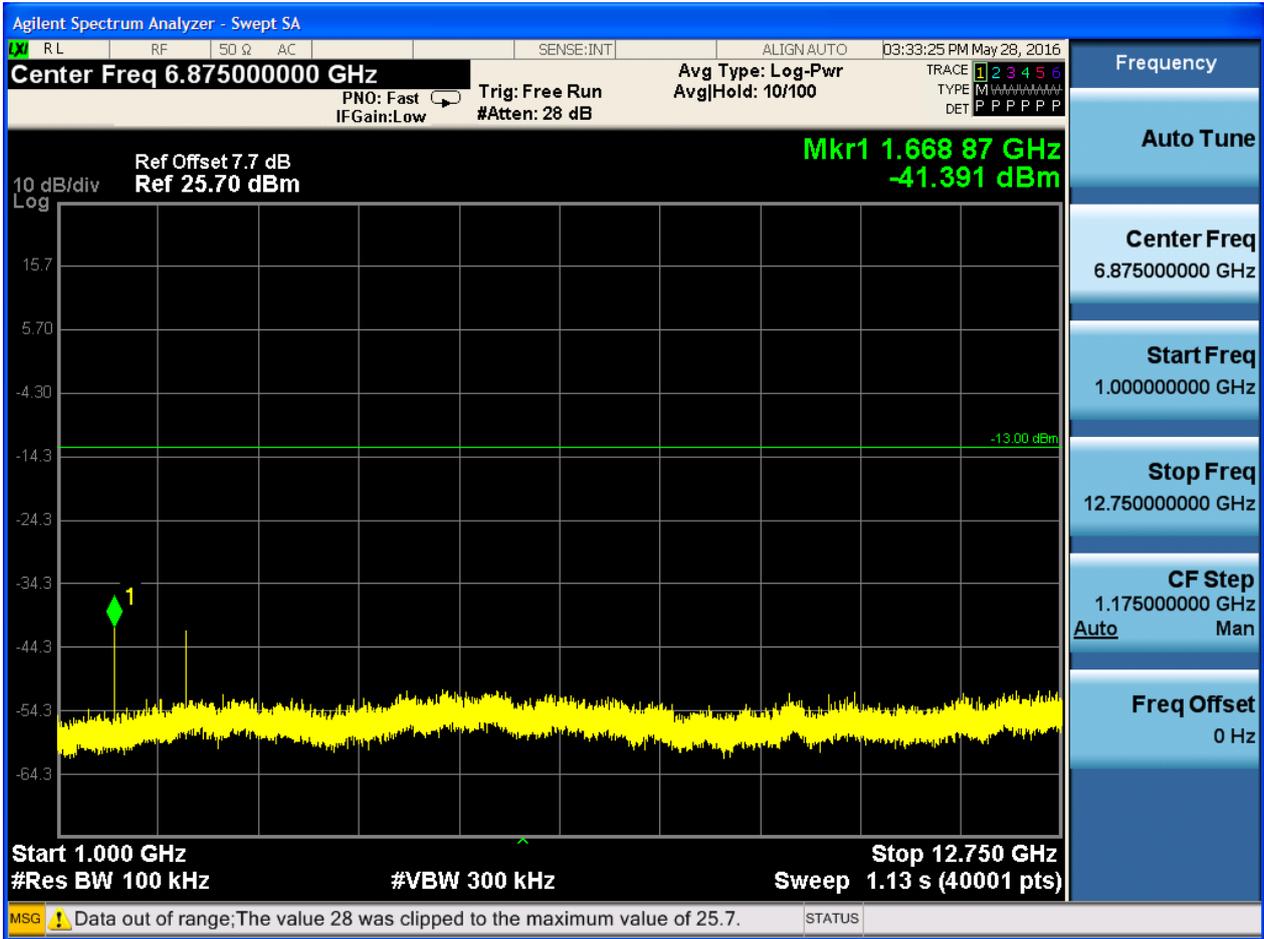
6.1.2.2.3.2 Test Channel = MCH

6.1.2.2.3.2.1 Test RB = RB1#0





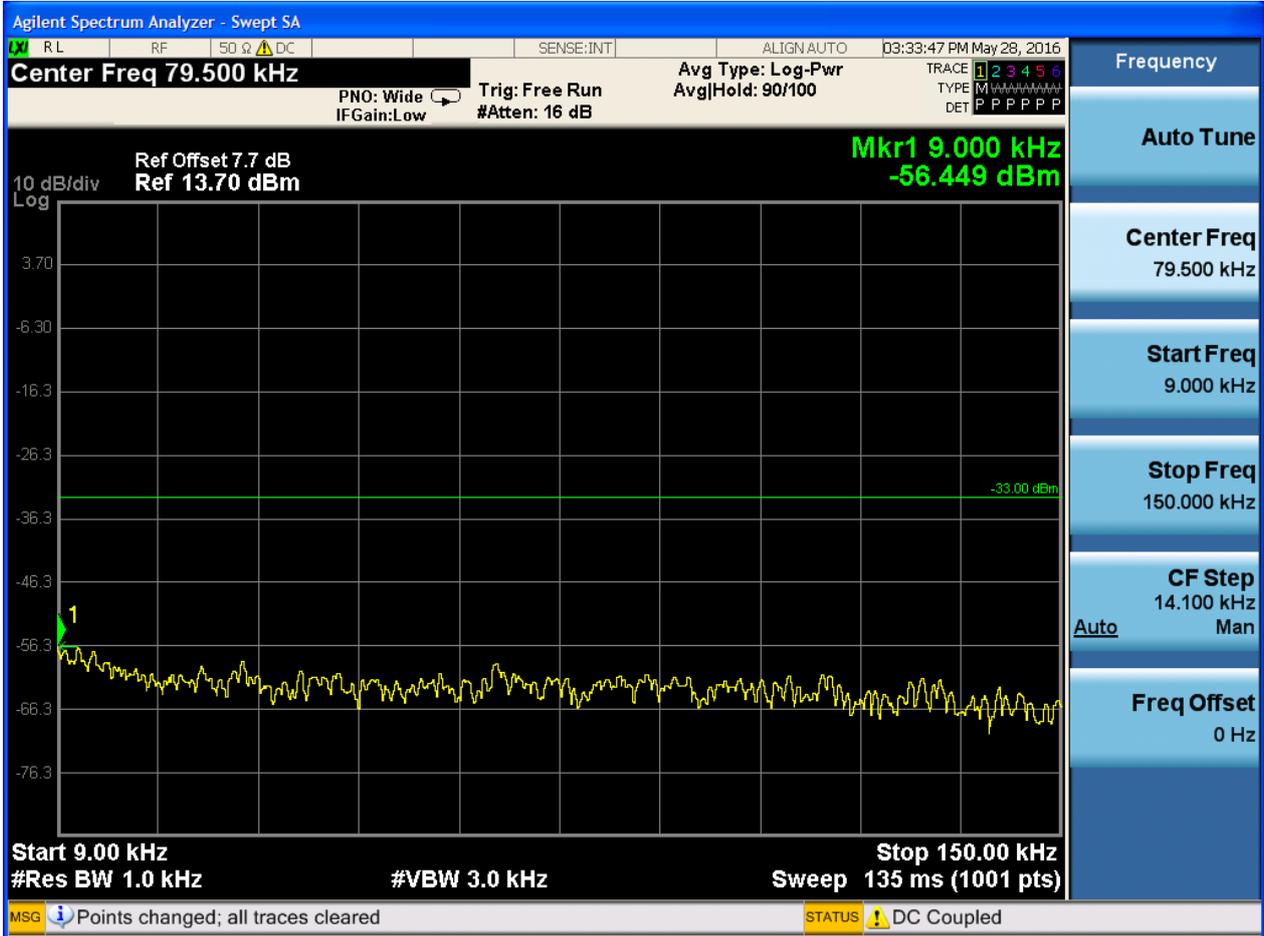


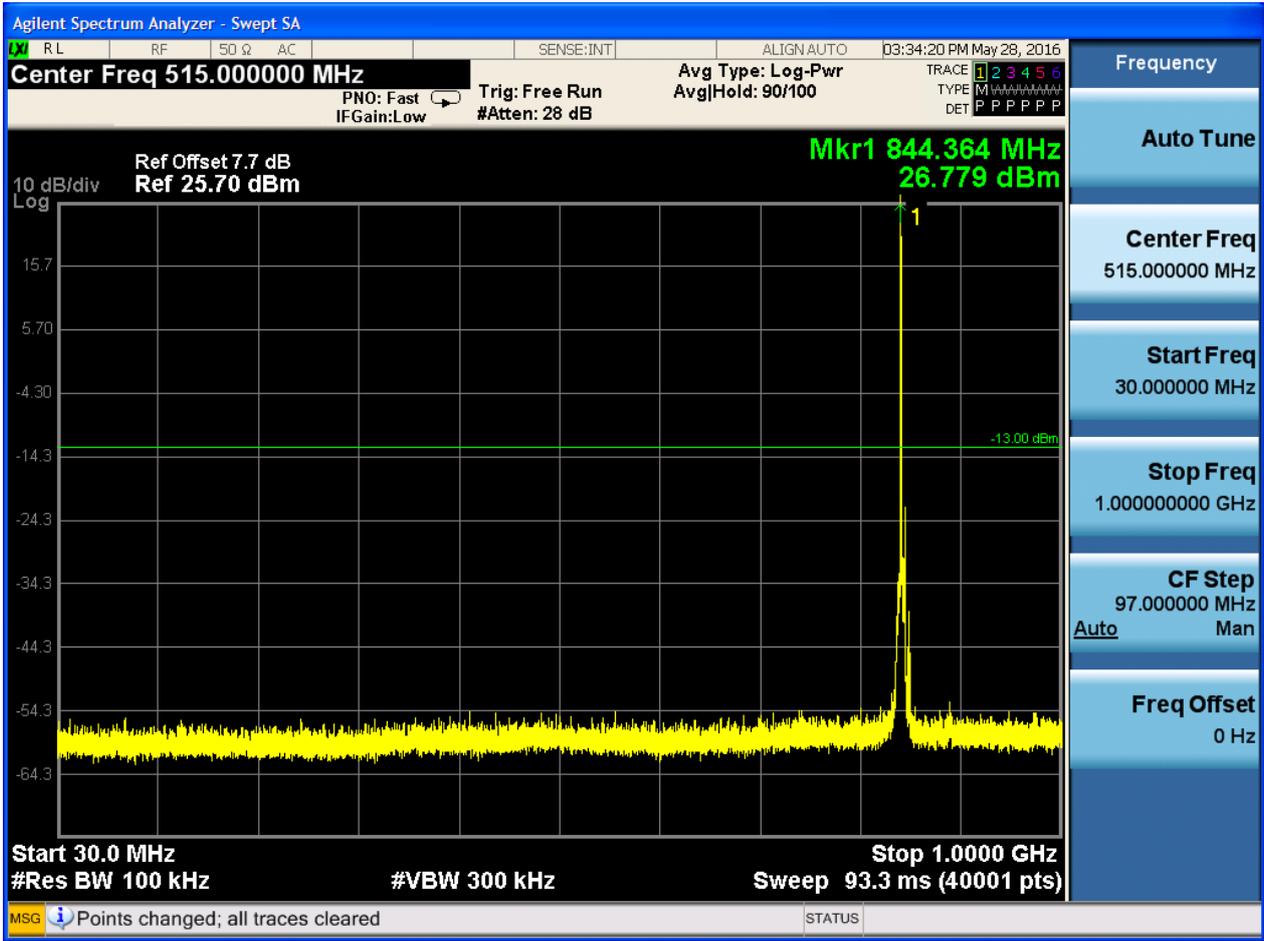


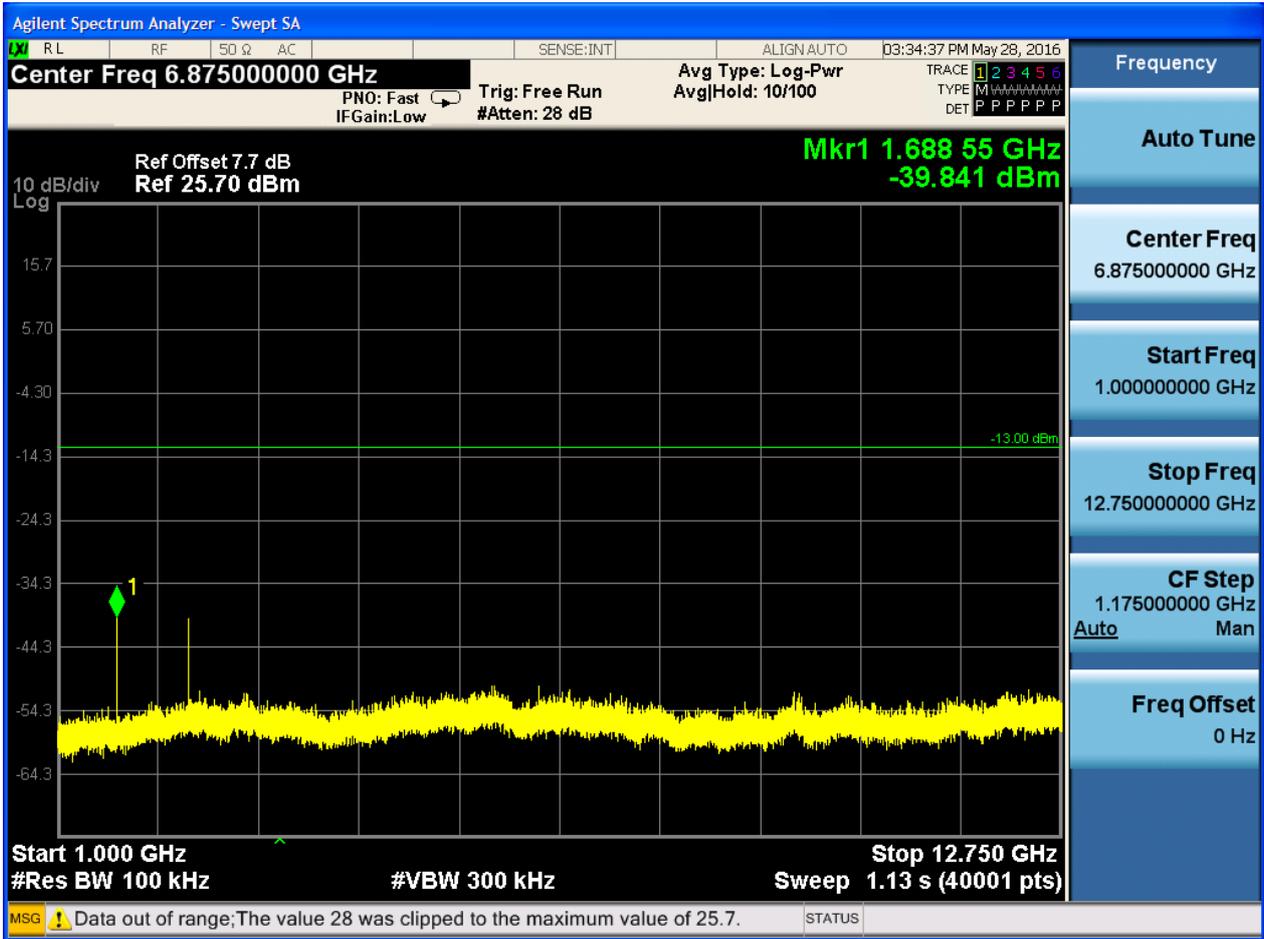


6.1.2.2.3.3 Test Channel = HCH

6.1.2.2.3.3.1 Test RB = RB1#0





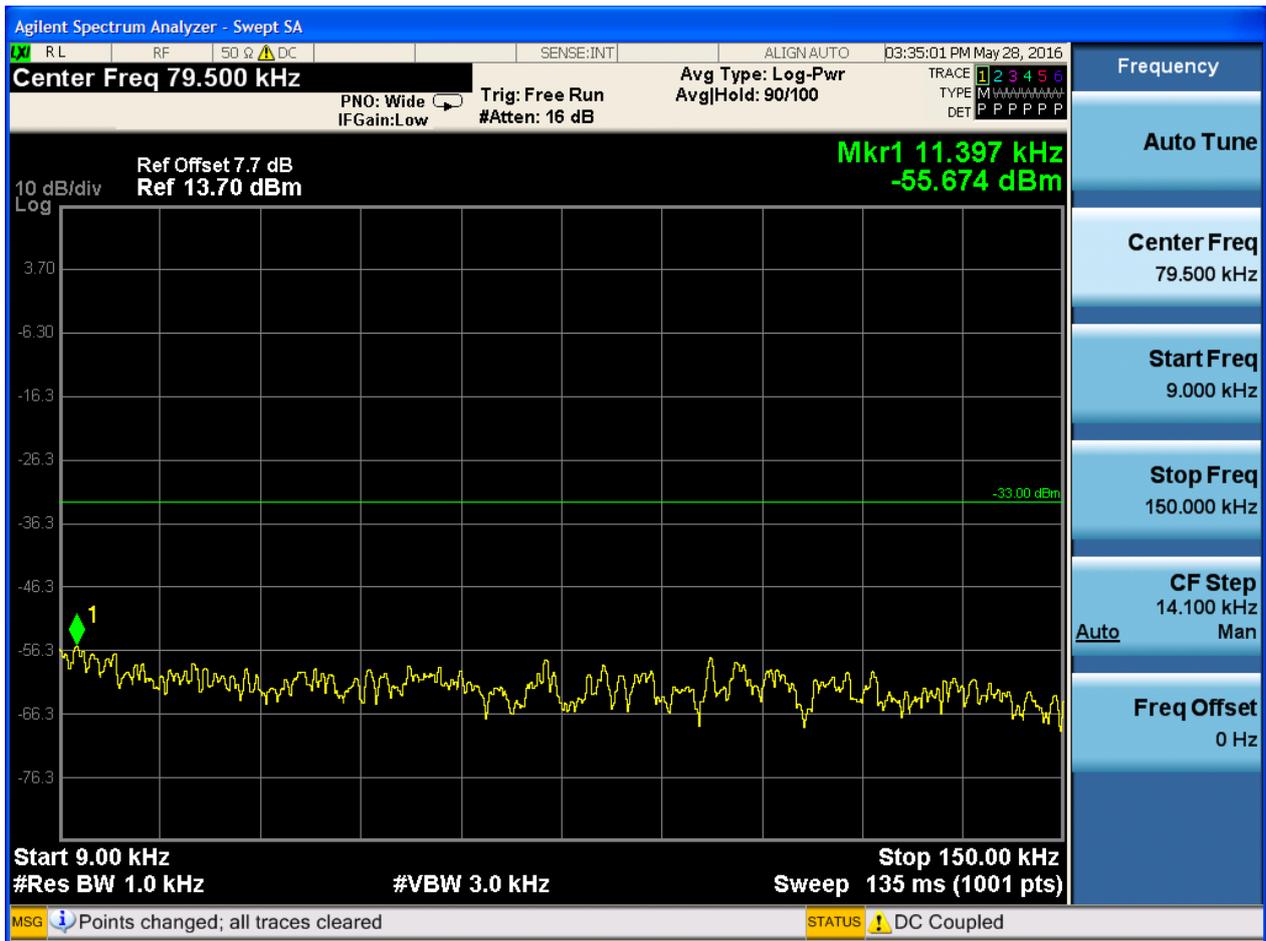




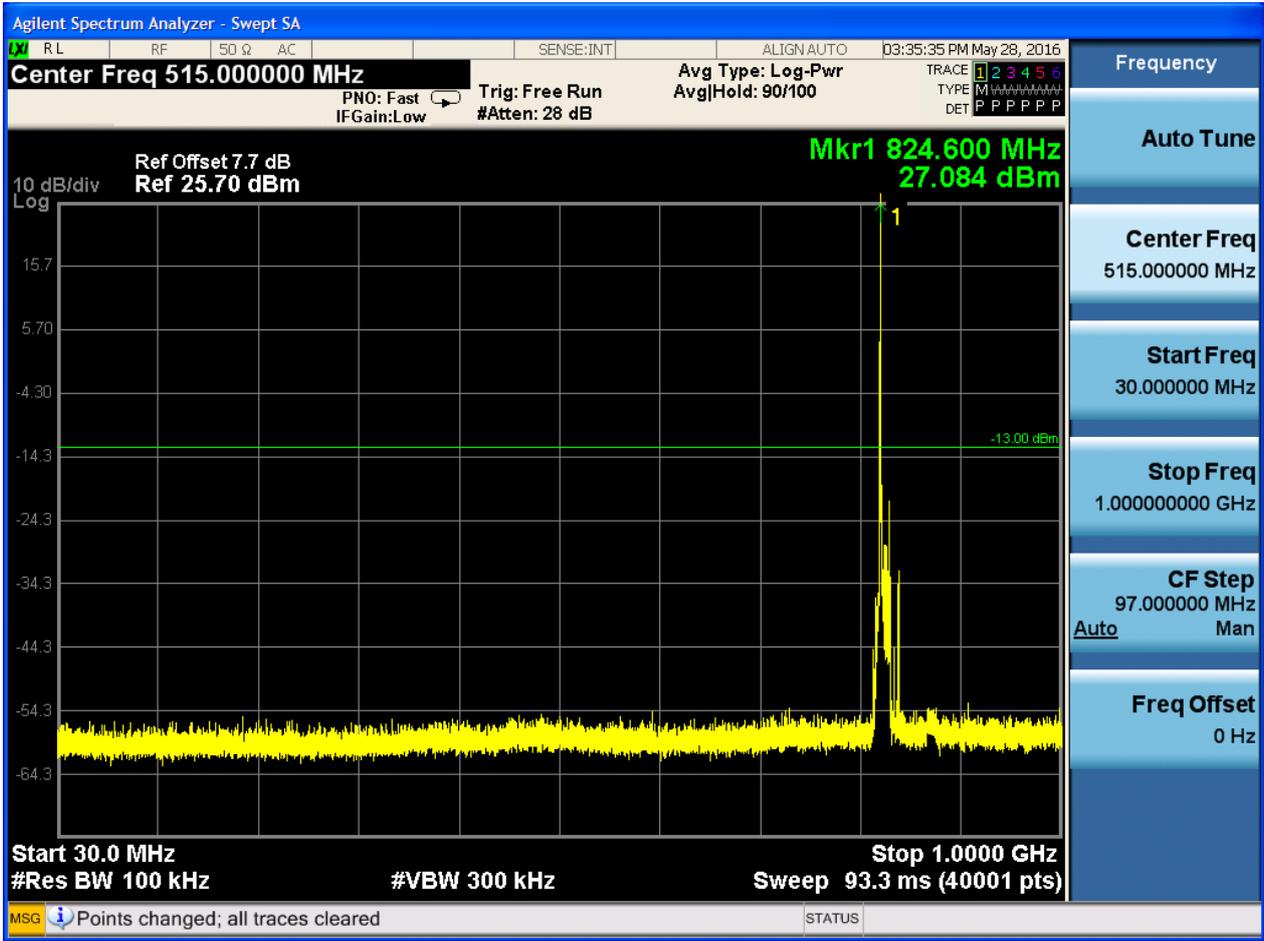
6.1.2.2.4 Test Bandwidth = 10

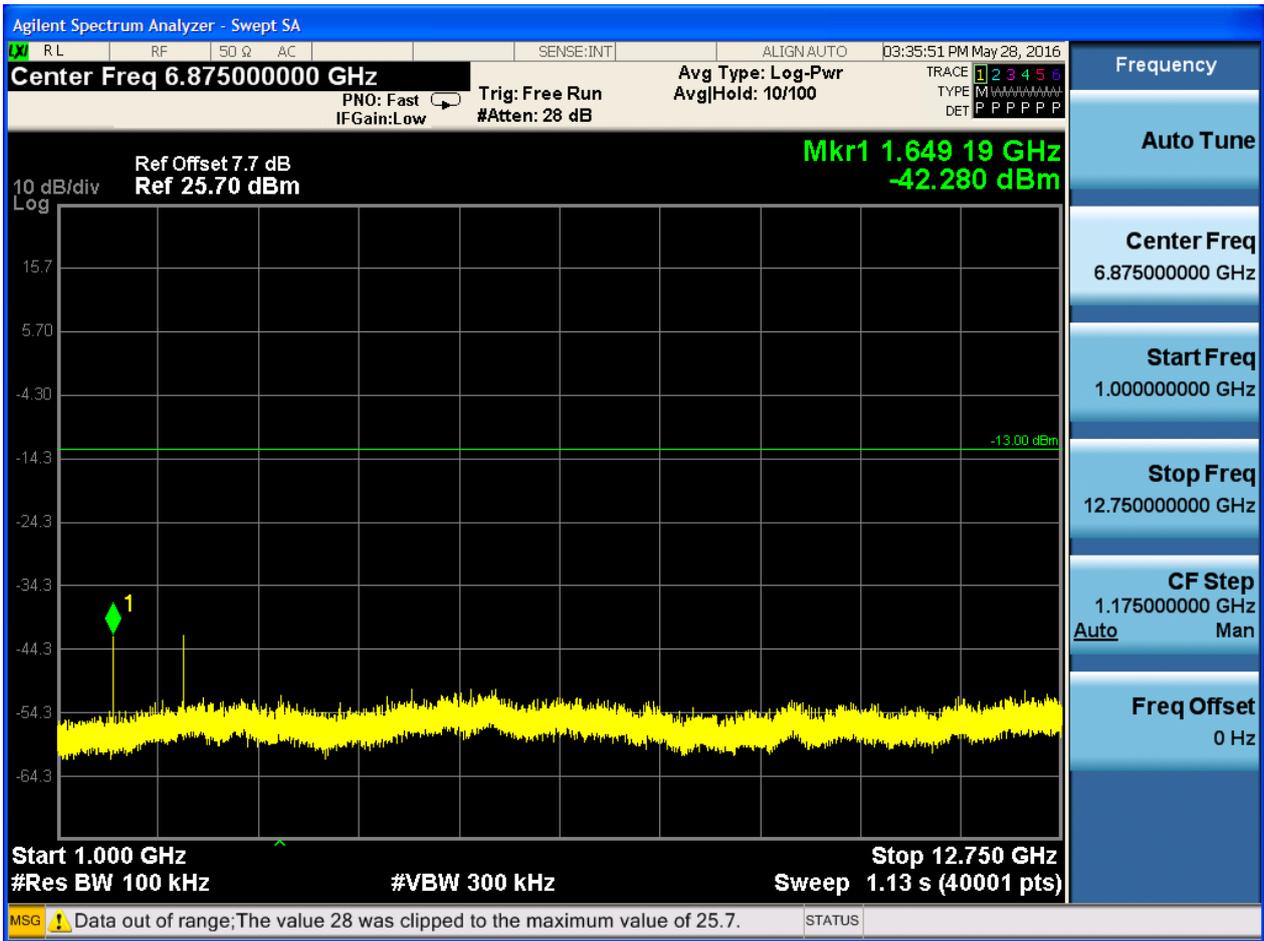
6.1.2.2.4.1 Test Channel = LCH

6.1.2.2.4.1.1 Test RB = RB1#0





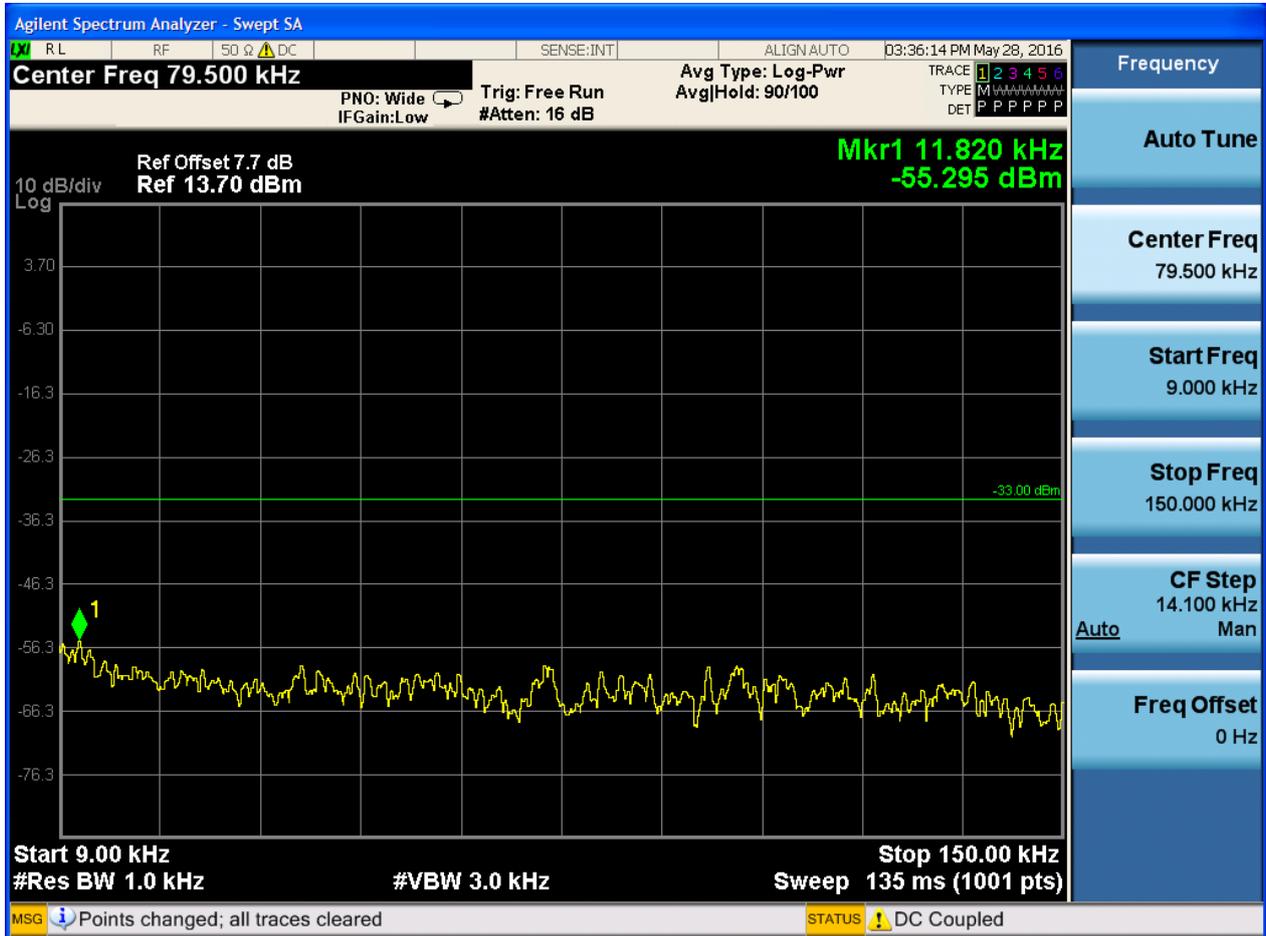




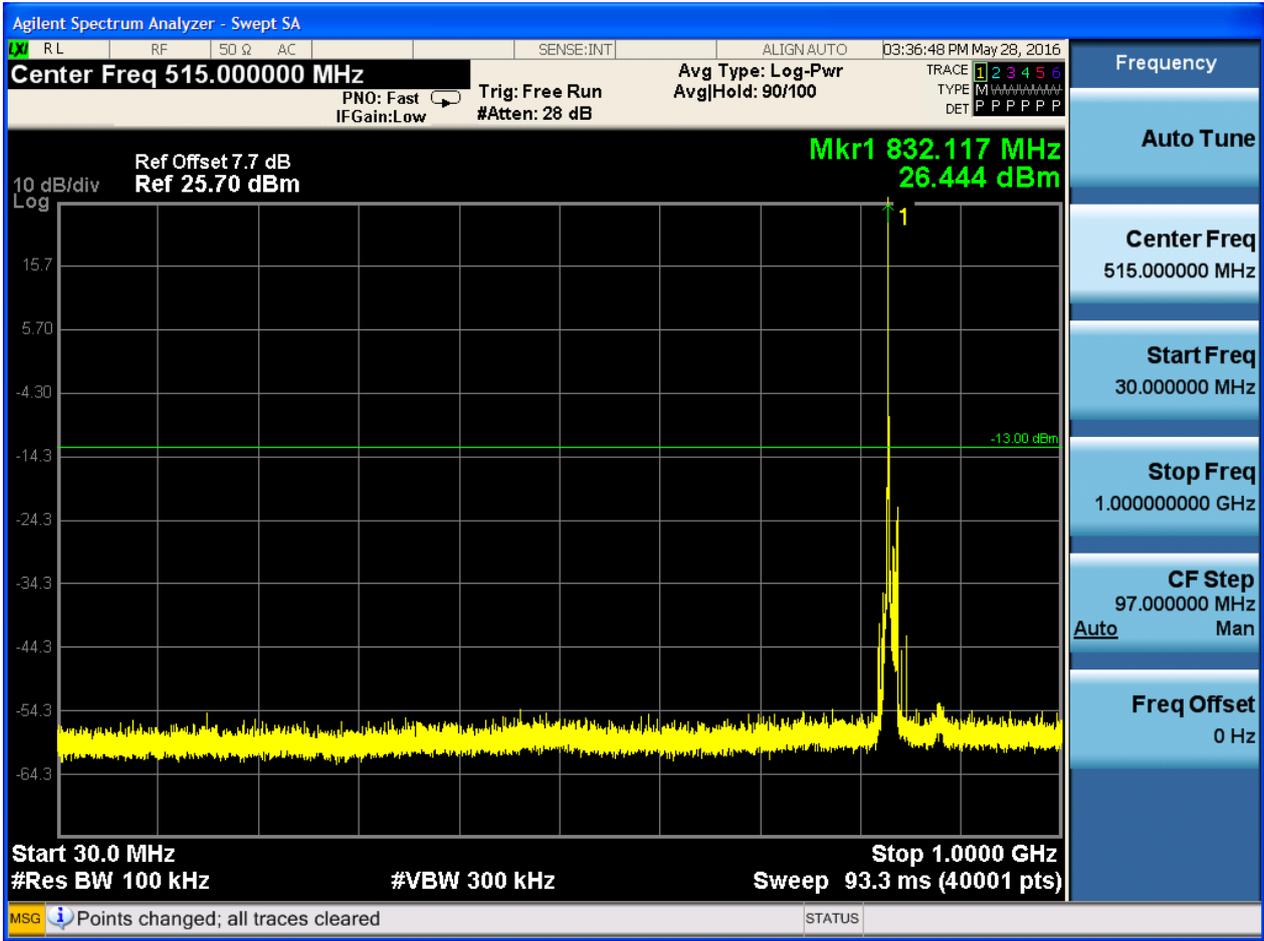


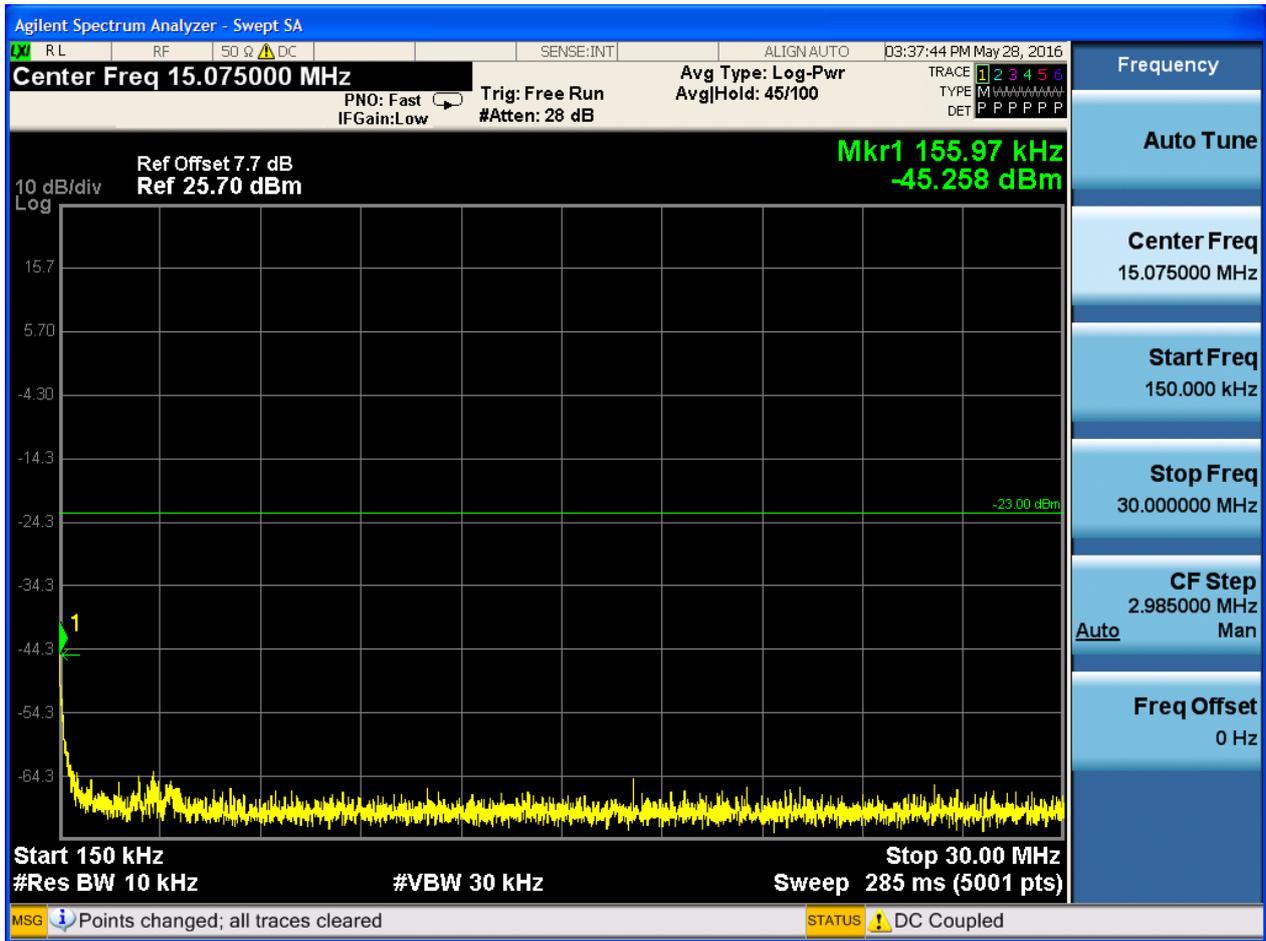
6.1.2.2.4.2 Test Channel = MCH

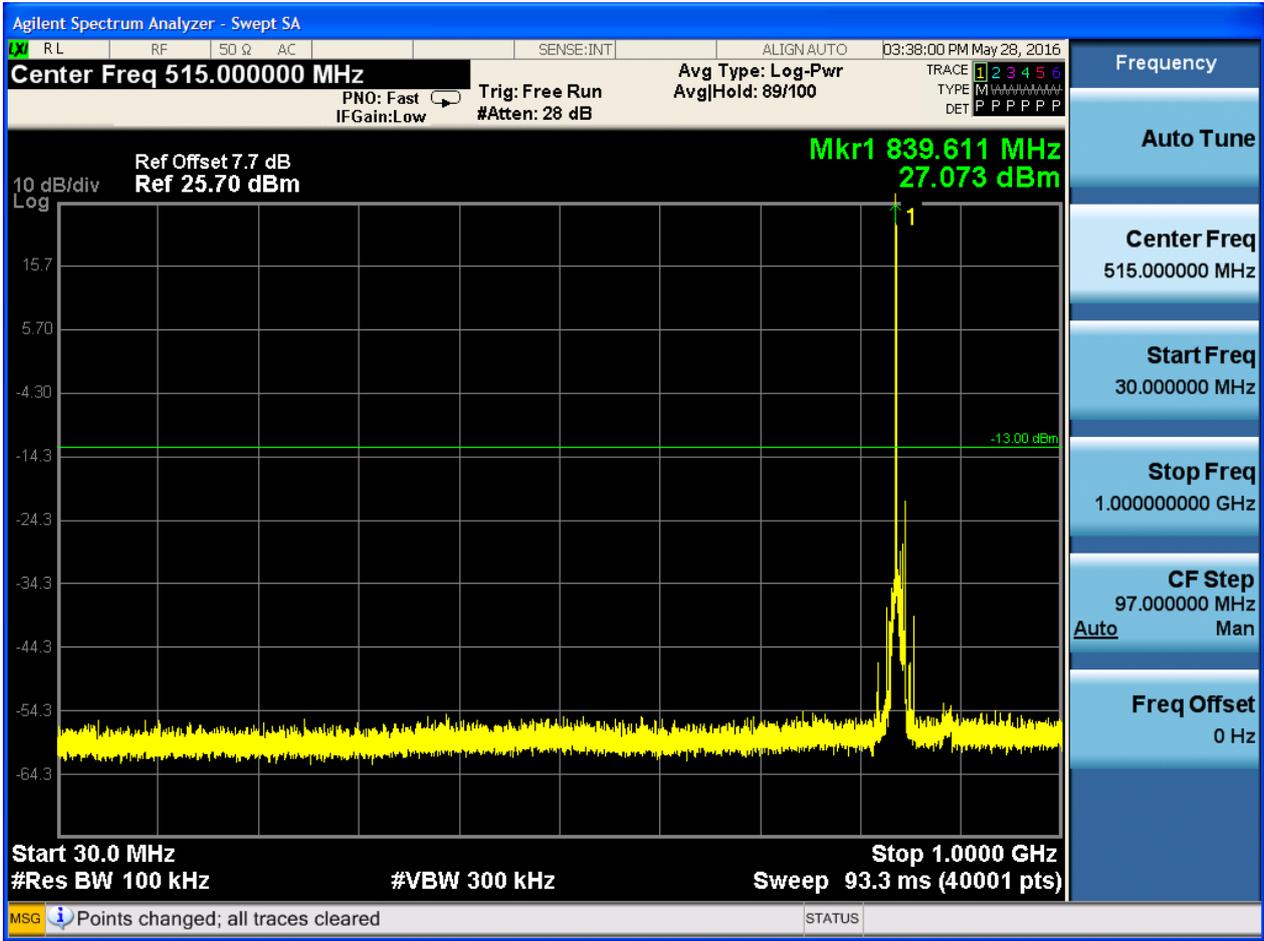
6.1.2.2.4.2.1 Test RB = RB1#0

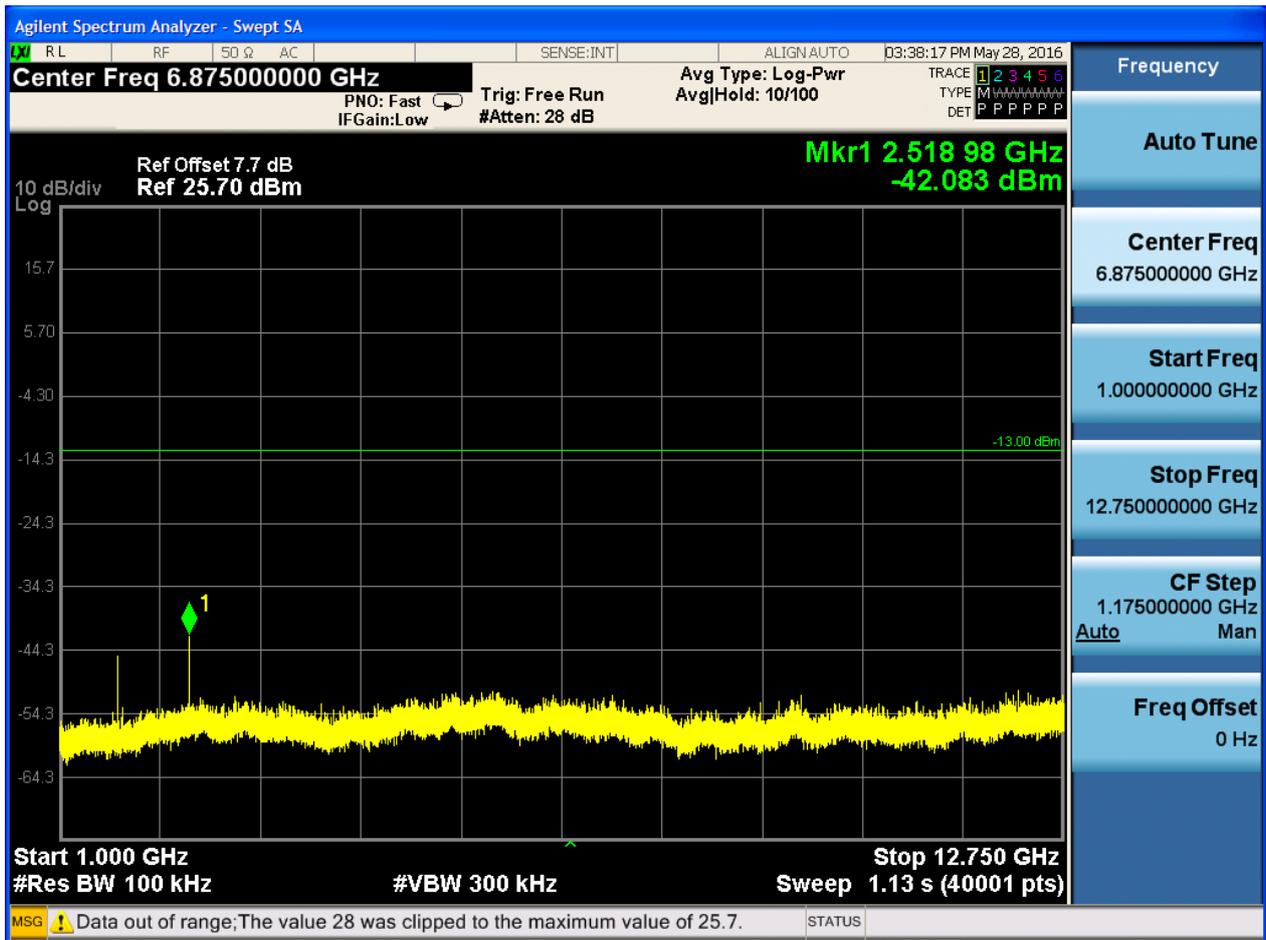














7Appendix_G: Field Strength of Spurious Radiation

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

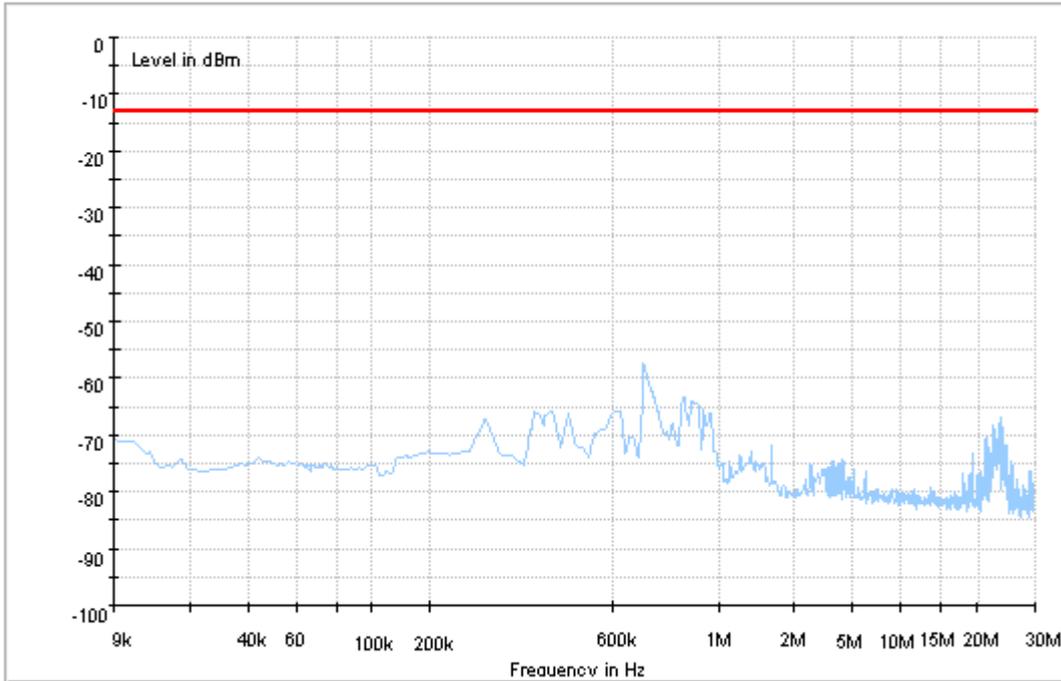
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

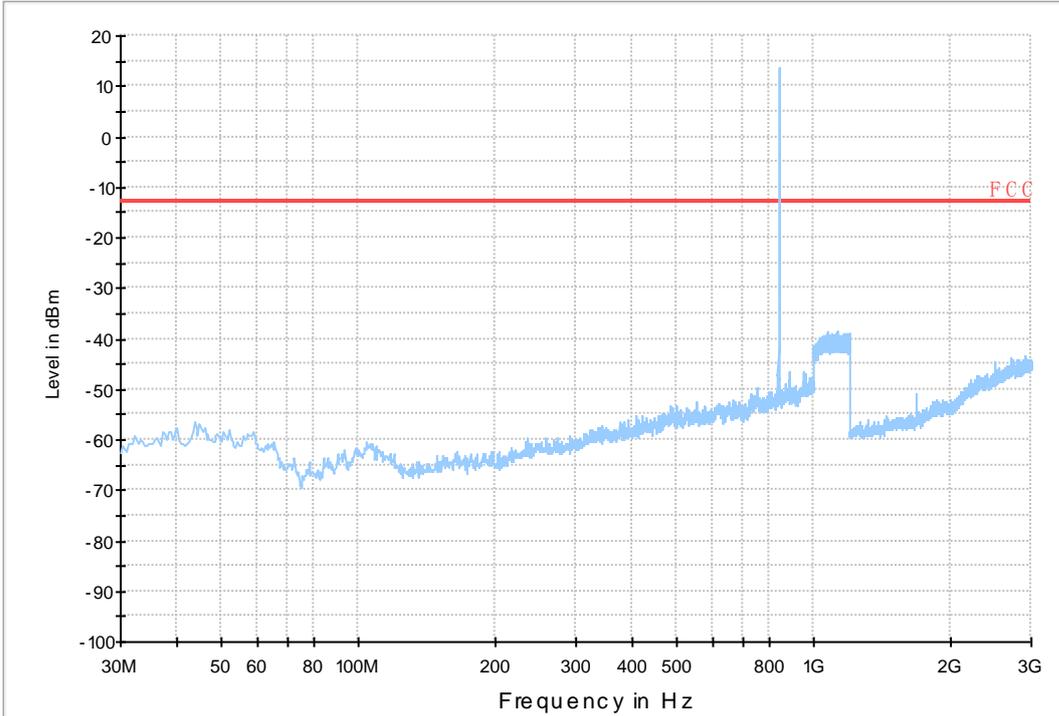
7.1 For LTE

7.1.1 Test Band = BAND5

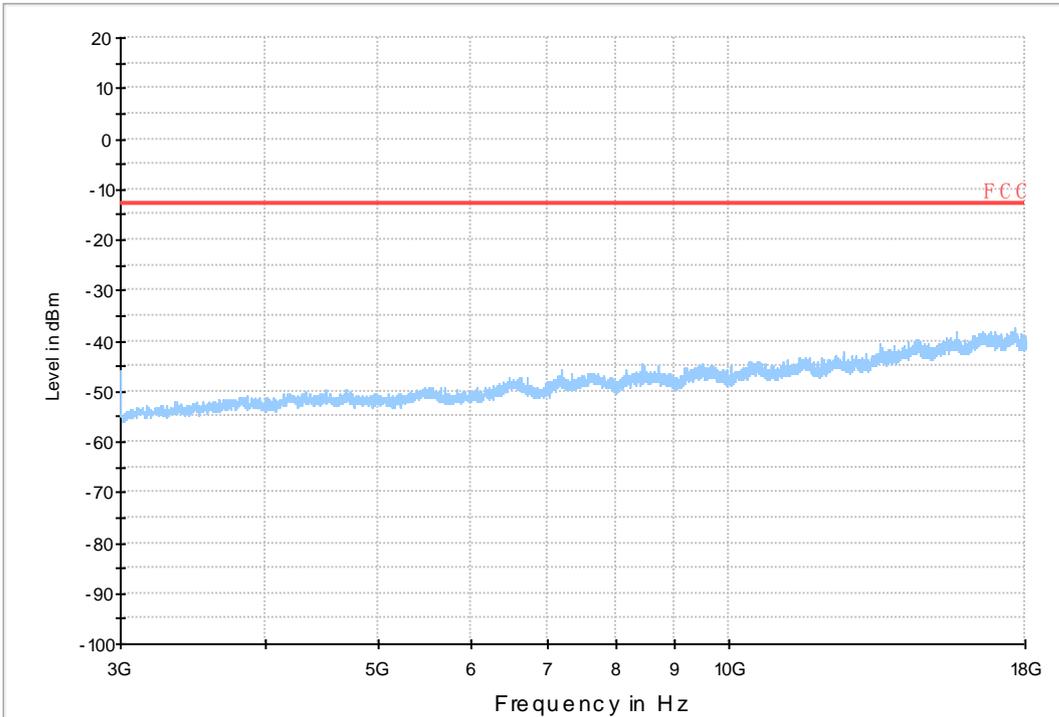
7.1.2.1 Test Bandwidth = 1.4



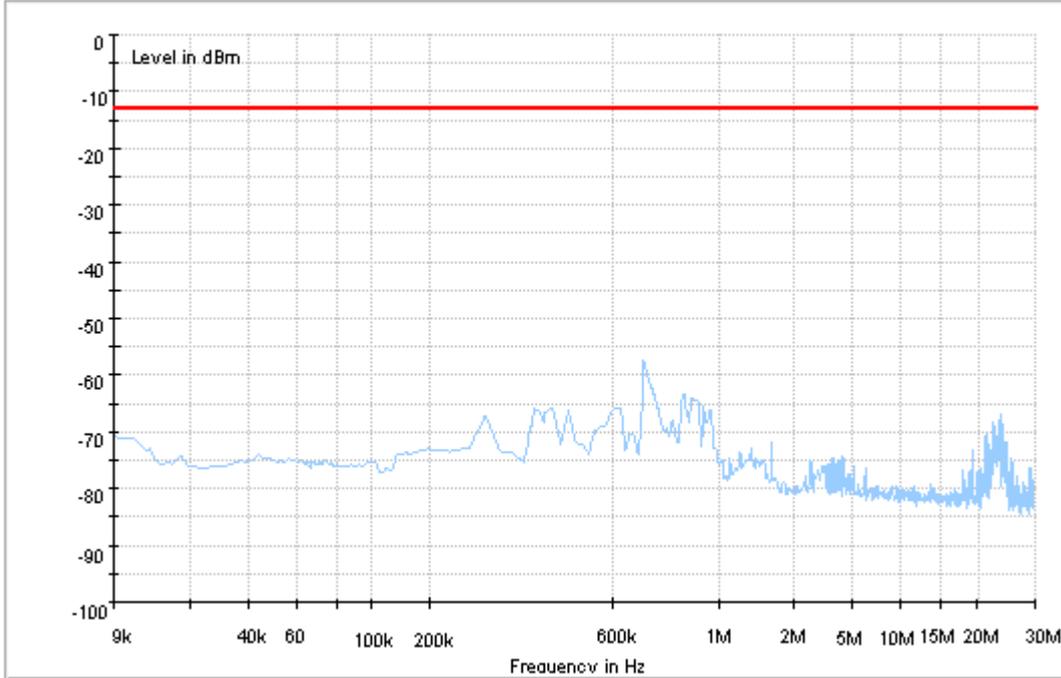
Copy of RSE-TX-DIRECTOR BELOW 1G_L



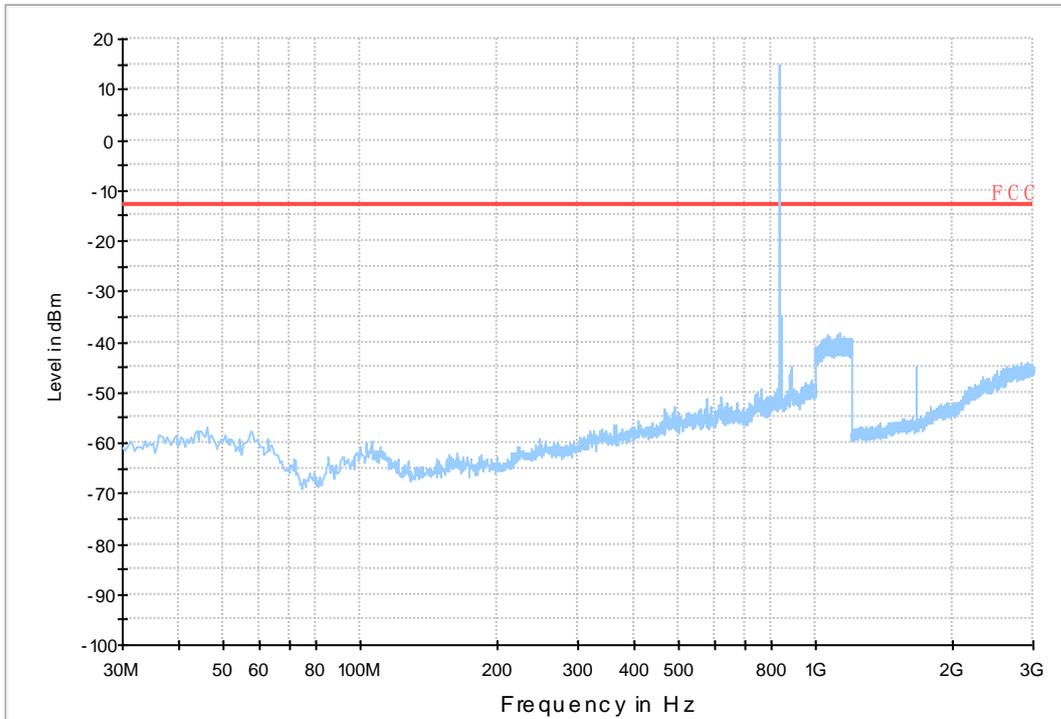
Copy of RSE-TX-DIRECTOR BELOW 1G_H



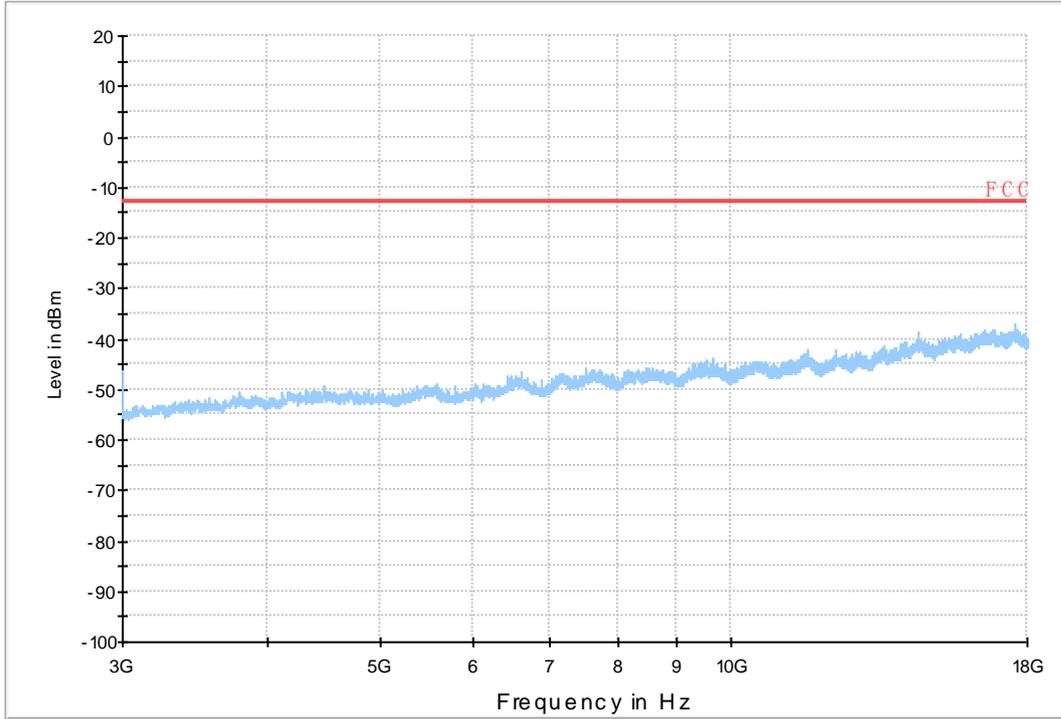
7.1.2.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency 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	8.51	0.01032	PASS
					VN	4.15	0.00503	PASS
					VH	-6.69	-0.00811	PASS
			MCH	TN	VL	3.15	0.00377	PASS
					VN	8.55	0.01022	PASS
					VH	-9.66	-0.01155	PASS
			HCH	TN	VL	18.07	0.0213	PASS
					VN	1.60	0.00189	PASS
					VH	-4.55	-0.00536	PASS
		3	LCH	TN	VL	-32.33	-0.03916	PASS
					VN	3.83	0.00464	PASS
					VH	-1.66	-0.00201	PASS
			MCH	TN	VL	0.94	0.00112	PASS
					VN	0.51	0.00061	PASS
					VH	-2.55	-0.00305	PASS
			HCH	TN	VL	1.77	0.00209	PASS
					VN	6.57	0.00775	PASS
					VH	-4.02	-0.00474	PASS
		5	LCH	TN	VL	-3.02	-0.00365	PASS
					VN	2.02	0.00244	PASS
					VH	-0.09	-0.00011	PASS
			MCH	TN	VL	0.70	0.00084	PASS
					VN	1.80	0.00215	PASS
					VH	-2.27	-0.00271	PASS
			HCH	TN	VL	-3.48	-0.00411	PASS
					VN	-10.00	-0.01181	PASS
					VH	16.34	0.0193	PASS
		10	LCH	TN	VL	50.43	0.06083	PASS
					VN	-6.54	-0.00789	PASS
					VH	8.34	0.01006	PASS
MCH	TN		VL	-14.29	-0.17847	PASS		
			VN	-0.11	-0.00013	PASS		
			VH	30.38	0.03632	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	HCH	TN	VL	-1.70	-0.00201	PASS
					VN	-1.24	-0.00147	PASS
					VH	-0.56	-0.00066	PASS
			LCH	TN	VL	1.90	0.0023	PASS
					VN	2.35	0.00285	PASS
					VH	-1.69	-0.00205	PASS
			MCH	TN	VL	11.23	0.01342	PASS
					VN	3.00	0.00359	PASS
					VH	-2.88	-0.00344	PASS
		HCH	TN	VL	12.63	0.01489	PASS	
				VN	-9.71	-0.01145	PASS	
				VH	6.74	0.00795	PASS	
		3	LCH	TN	VL	-19.91	-0.02412	PASS
					VN	-21.76	-0.02636	PASS
					VH	-18.35	-0.02223	PASS
			MCH	TN	VL	4.96	0.00593	PASS
					VN	-1.54	-0.00184	PASS
					VH	-7.81	-0.00934	PASS
			HCH	TN	VL	5.21	0.00615	PASS
					VN	3.98	0.0047	PASS
					VH	6.54	0.00772	PASS
		5	LCH	TN	VL	15.09	0.01826	PASS
					VN	0.46	0.00056	PASS
					VH	-0.10	-0.00012	PASS
			MCH	TN	VL	-3.10	-0.00371	PASS
					VN	-0.31	-0.00037	PASS
					VH	0.37	0.00044	PASS
			HCH	TN	VL	17.32	0.02046	PASS
					VN	14.71	0.01738	PASS
					VH	21.13	0.02496	PASS
		10	LCH	TN	VL	-55.35	-0.06677	PASS
					VN	-0.31	-0.00037	PASS
					VH	-24.50	-0.02955	PASS
			MCH	TN	VL	2.95	0.00353	PASS
					VN	-42.70	-0.05105	PASS
					VH	-93.80	-0.11213	PASS
			HCH	TN	VL	-1.07	-0.00127	PASS
					VN	0.31	0.00037	PASS
					VH	-3.85	-0.00456	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	-6.22	-0.00754	PASS
					-20	-14.05	-0.01704	PASS
					-10	8.14	0.00987	PASS
					0	-3.78	-0.00458	PASS
					10	-7.10	-0.00861	PASS
					20	-11.92	-0.01445	PASS
					30	-5.65	-0.00685	PASS
					40	4.48	0.00543	PASS
					50	-12.13	-0.01471	PASS
			MCH	VN	-30	-0.30	-0.00036	PASS
					-20	-3.38	-0.00404	PASS
					-10	25.49	0.03047	PASS
					0	-7.64	-0.00913	PASS
					10	-2.56	-0.00306	PASS
					20	7.60	0.00909	PASS
					30	2.02	0.00241	PASS
					40	3.71	0.00444	PASS
					50	1.20	0.00143	PASS
		HCH	VN	-30	-8.55	-0.01008	PASS	
				-20	0.29	0.00034	PASS	
				-10	-4.55	-0.00536	PASS	
				0	-14.09	-0.01661	PASS	
				10	-26.41	-0.03113	PASS	
				20	-16.04	-0.01891	PASS	
				30	4.29	0.00506	PASS	
				40	12.16	0.01433	PASS	
				50	12.89	0.0152	PASS	
		3	LCH	VN	-30	-4.89	-0.00592	PASS
					-20	-18.97	-0.02298	PASS
					-10	-2.12	-0.00257	PASS
0	-18.75				-0.02271	PASS		
10	8.38				0.01015	PASS		
20	-14.16				-0.01715	PASS		
30	12.52				0.01517	PASS		
40	-4.89				-0.00592	PASS		
50	-8.88				-0.01076	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	-30	0.43	0.00051	PASS
					-20	8.65	0.01034	PASS
					-10	-1.26	-0.00151	PASS
					0	2.59	0.0031	PASS
					10	-3.96	-0.00473	PASS
					20	-4.38	-0.00524	PASS
					30	-1.22	-0.00146	PASS
					40	-0.92	-0.0011	PASS
					50	-2.02	-0.00241	PASS
			HCH	VN	-30	-6.31	-0.00745	PASS
					-20	12.77	0.01507	PASS
					-10	-12.45	-0.01469	PASS
					0	4.79	0.00565	PASS
					10	4.55	0.00537	PASS
					20	4.85	0.00572	PASS
					30	-6.90	-0.00814	PASS
					40	6.81	0.00804	PASS
					50	-9.40	-0.01109	PASS
		5	LCH	VN	-30	2.32	0.00281	PASS
					-20	-0.06	-0.00007	PASS
					-10	-5.91	-0.00715	PASS
					0	1.27	0.00154	PASS
					10	-0.49	-0.00059	PASS
					20	-1.13	-0.00137	PASS
					30	-8.61	-0.01042	PASS
					40	-2.29	-0.00277	PASS
					50	3.89	0.00471	PASS
			MCH	VN	-30	-1.63	-0.00195	PASS
					-20	-0.20	-0.00024	PASS
					-10	-1.50	-0.00179	PASS
					0	-3.09	-0.00369	PASS
					10	-0.06	-0.00007	PASS
					20	-1.54	-0.00184	PASS
					30	-1.36	-0.00163	PASS
					40	-1.73	-0.00207	PASS
					50	-2.23	-0.00267	PASS
HCH	VN	-30	1.44	0.0017	PASS			
		-20	-23.37	-0.02761	PASS			
		-10	-0.47	-0.00056	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		10	LCH	VN	0	16.48	0.01947	PASS
					10	2.12	0.0025	PASS
					20	-16.29	-0.01924	PASS
					30	-7.82	-0.00924	PASS
					40	-7.64	-0.00903	PASS
					50	-1.57	-0.00185	PASS
			LCH	VN	-30	84.49	0.10192	PASS
					-20	-8.60	-0.01037	PASS
					-10	-68.01	-0.08204	PASS
					0	28.22	0.03404	PASS
					10	2.43	0.00293	PASS
					20	33.13	0.03996	PASS
		MCH	VN	30	-43.17	-0.05207	PASS	
				40	-18.34	-0.02212	PASS	
				50	25.75	0.03106	PASS	
				-30	0.10	0.00012	PASS	
				-20	-0.40	-0.00048	PASS	
				-10	55.46	0.0663	PASS	
		MCH	VN	0	56.66	0.06773	PASS	
				10	173.54	0.20746	PASS	
				20	39.10	0.04674	PASS	
				30	0.24	0.00029	PASS	
				40	215.98	0.25819	PASS	
				50	0.09	0.00011	PASS	
	HCH	VN	-30	2.55	0.00302	PASS		
			-20	4.12	0.00488	PASS		
			-10	6.84	0.0081	PASS		
			0	11.20	0.01327	PASS		
			10	-2.59	-0.00307	PASS		
			20	-21.60	-0.02559	PASS		
	LCH	VN	30	-5.54	-0.00656	PASS		
			40	-61.83	-0.07326	PASS		
			50	7.87	0.00932	PASS		
			-30	-1.42	-0.00172	PASS		
			-20	9.56	0.01159	PASS		
			-10	9.88	0.01198	PASS		
LTE/TM2	1.4	LCH	VN	0	-8.13	-0.00986	PASS	
				10	7.18	0.00871	PASS	
				20	0.87	0.00105	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	0.50	0.00061	PASS
					40	0.13	0.00016	PASS
					50	-3.53	-0.00428	PASS
			MCH	VN	-30	-10.70	-0.01279	PASS
					-20	-10.14	-0.01212	PASS
					-10	1.99	0.00238	PASS
					0	6.47	0.00773	PASS
					10	-19.08	-0.02281	PASS
					20	-3.58	-0.00428	PASS
					30	-3.71	-0.00444	PASS
					40	3.03	0.00362	PASS
					50	-16.12	-0.01927	PASS
			HCH	VN	-30	9.70	0.01143	PASS
					-20	0.36	0.00042	PASS
					-10	6.52	0.00769	PASS
					0	8.34	0.00983	PASS
					10	4.88	0.00575	PASS
					20	-40.30	-0.04751	PASS
		30			-5.14	-0.00606	PASS	
		3	LCH	VN	-30	-6.85	-0.0083	PASS
					-20	-10.97	-0.01329	PASS
					-10	6.88	0.00833	PASS
					0	1.20	0.00145	PASS
					10	-33.00	-0.03998	PASS
					20	-5.91	-0.00716	PASS
					30	7.64	0.00925	PASS
					40	-0.16	-0.00019	PASS
					50	40.15	0.04864	PASS
			MCH	VN	-30	12.89	0.01541	PASS
					-20	-2.23	-0.00267	PASS
					-10	-5.49	-0.00656	PASS
					0	-2.15	-0.00257	PASS
					10	-4.85	-0.0058	PASS
					20	0.96	0.00115	PASS
					30	-1.44	-0.00172	PASS
					40	-2.17	-0.00259	PASS
50	4.16				0.00497	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		5	HCH	VN	-30	-3.38	-0.00399	PASS
					-20	-1.37	-0.00162	PASS
					-10	-2.37	-0.0028	PASS
					0	-3.88	-0.00458	PASS
					10	1.12	0.00132	PASS
					20	4.15	0.0049	PASS
					30	11.50	0.01357	PASS
					40	-11.03	-0.01301	PASS
					50	-6.54	-0.00772	PASS
			LCH	VN	-30	-3.16	-0.00382	PASS
					-20	-1.72	-0.00208	PASS
					-10	4.86	0.00588	PASS
					0	0.14	0.00017	PASS
					10	-2.68	-0.00324	PASS
					20	-7.93	-0.00959	PASS
					30	8.20	0.00992	PASS
					40	-0.80	-0.00097	PASS
					50	-0.14	-0.00017	PASS
		MCH	VN	-30	0.40	0.00048	PASS	
				-20	-2.69	-0.00322	PASS	
				-10	-1.09	-0.0013	PASS	
				0	-2.07	-0.00247	PASS	
				10	1.07	0.00128	PASS	
				20	-2.98	-0.00356	PASS	
				30	0.60	0.00072	PASS	
				40	-0.67	-0.0008	PASS	
				50	-3.36	-0.00402	PASS	
		HCH	VN	-30	7.45	0.0088	PASS	
				-20	3.75	0.00443	PASS	
				-10	-4.79	-0.00566	PASS	
				0	-0.21	-0.00025	PASS	
				10	-4.62	-0.00546	PASS	
				20	-0.13	-0.00015	PASS	
				30	1.80	0.00213	PASS	
				40	-3.76	-0.00444	PASS	
				50	3.30	0.0039	PASS	
		10	LCH	VN	-30	-19.21	-0.02317	PASS
					-20	10.29	0.01241	PASS
					-10	-29.03	-0.03502	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	10.90	0.01315	PASS
					10	-13.72	-0.01655	PASS
					20	-21.01	-0.02534	PASS
					30	-4.38	-0.00528	PASS
					40	36.18	0.04364	PASS
					50	21.36	0.02577	PASS
			MCH	VN	-30	-0.21	-0.00025	PASS
					-20	-336.47	-0.40224	PASS
					-10	-0.39	-0.00047	PASS
					0	-127.26	-0.15213	PASS
					10	-198.96	-0.23785	PASS
					20	46.86	0.05602	PASS
					30	58.88	0.07039	PASS
					40	-88.53	-0.10583	PASS
			HCH	VN	50	-0.43	-0.00051	PASS
					-30	3.58	0.00424	PASS
					-20	-3.28	-0.00389	PASS
					-10	1.32	0.00156	PASS
					0	1.42	0.00168	PASS
					10	-1.92	-0.00227	PASS
					20	-2.22	-0.00263	PASS
					30	-5.97	-0.00707	PASS
			40	-0.37	-0.00044	PASS		
			50	-0.96	-0.00114	PASS		

END