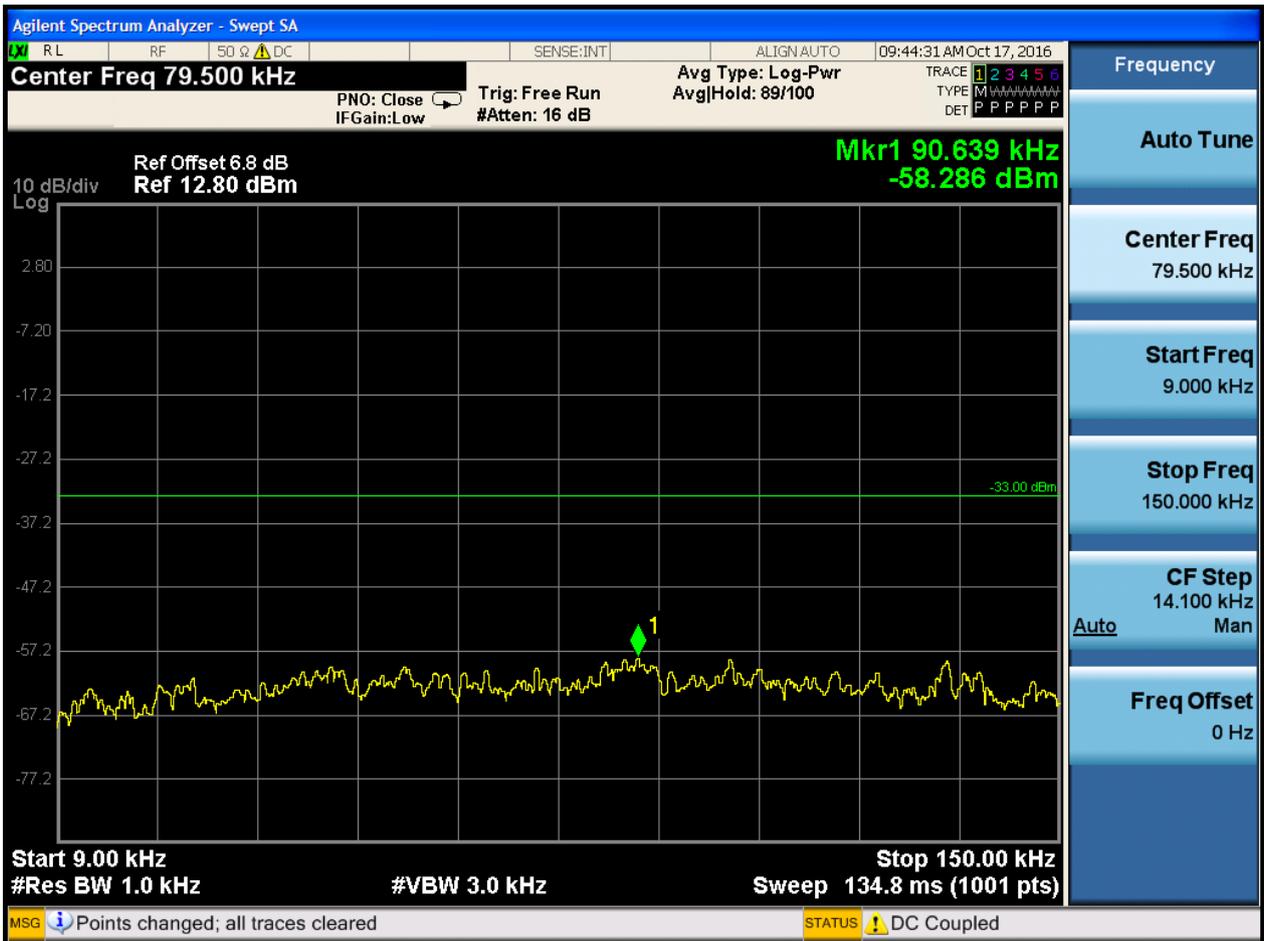




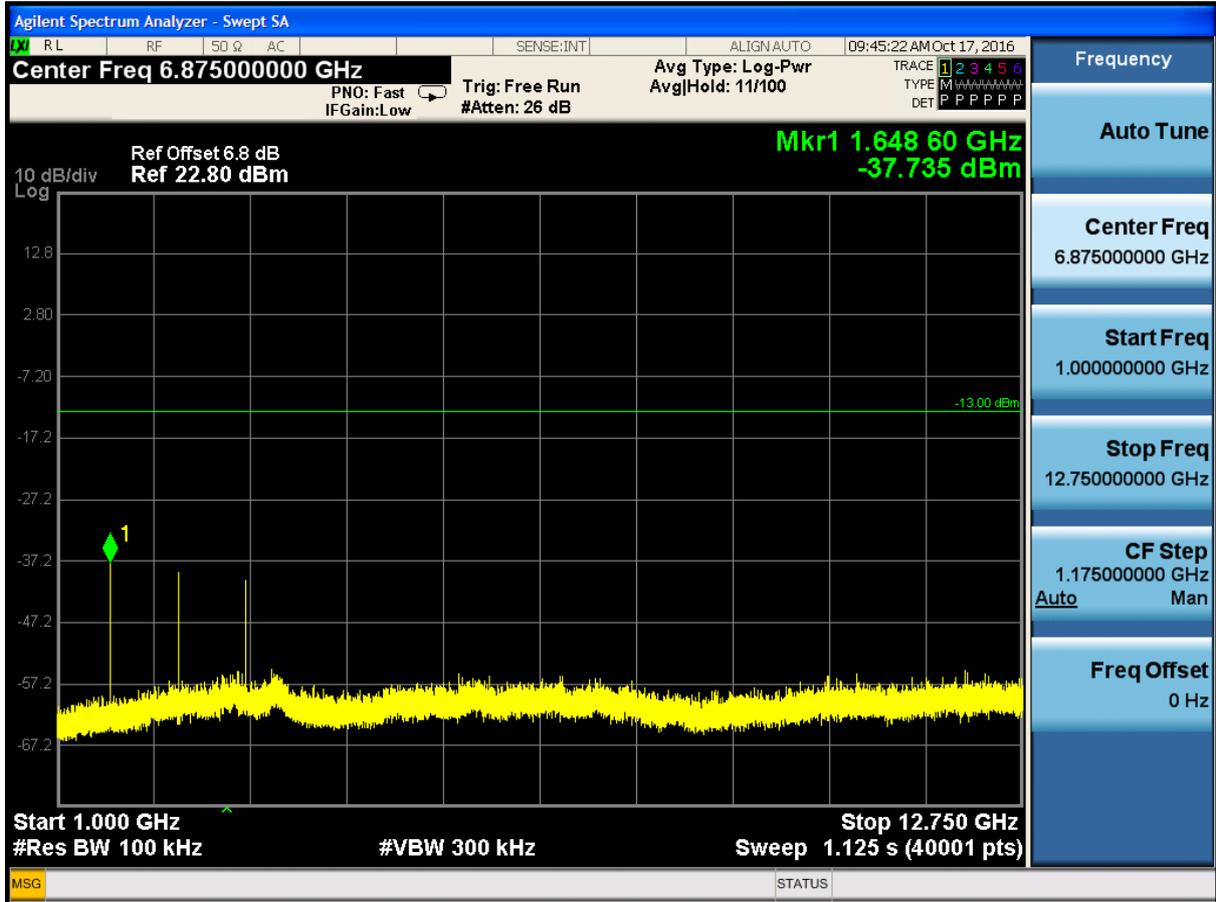
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



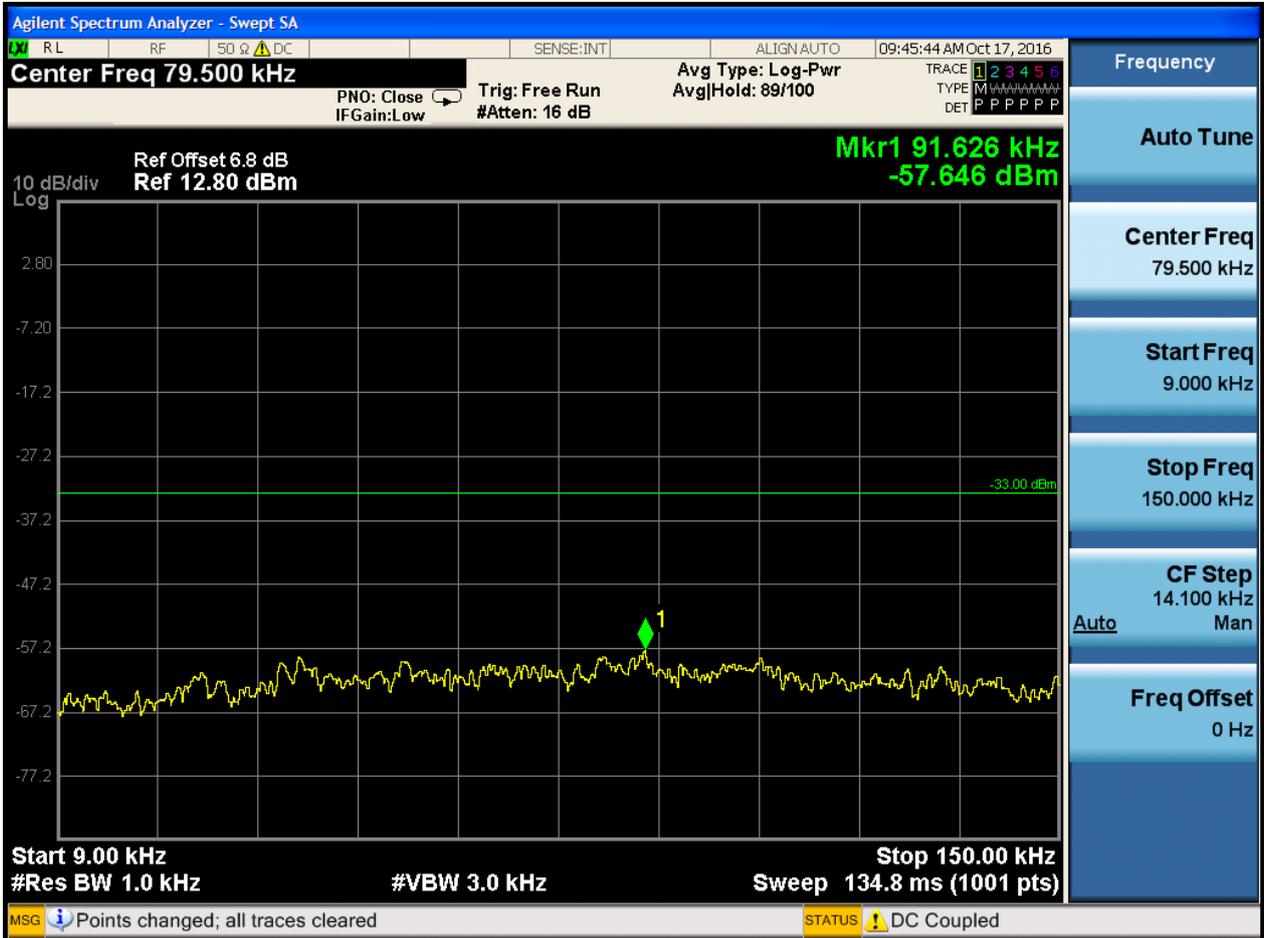




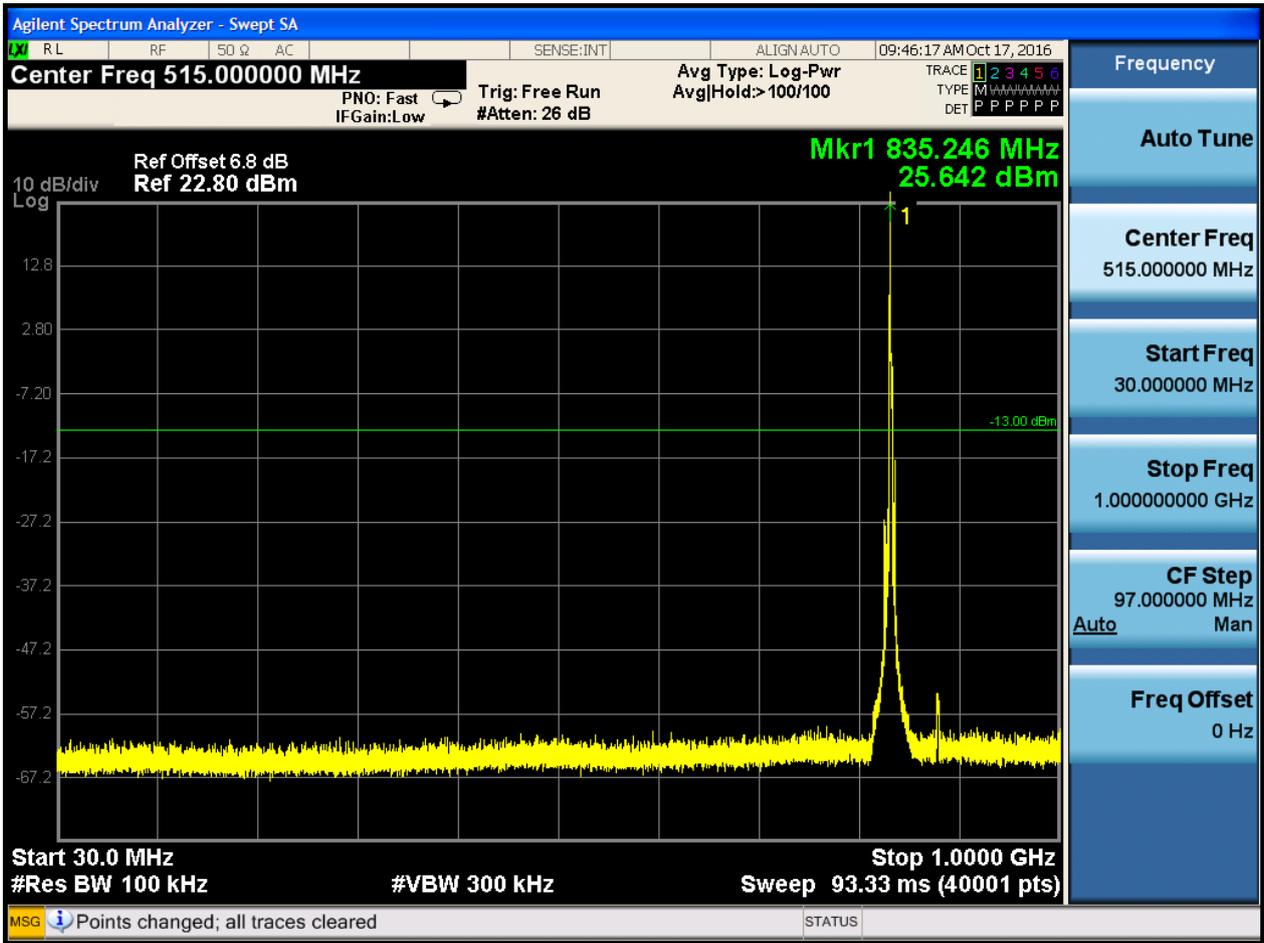


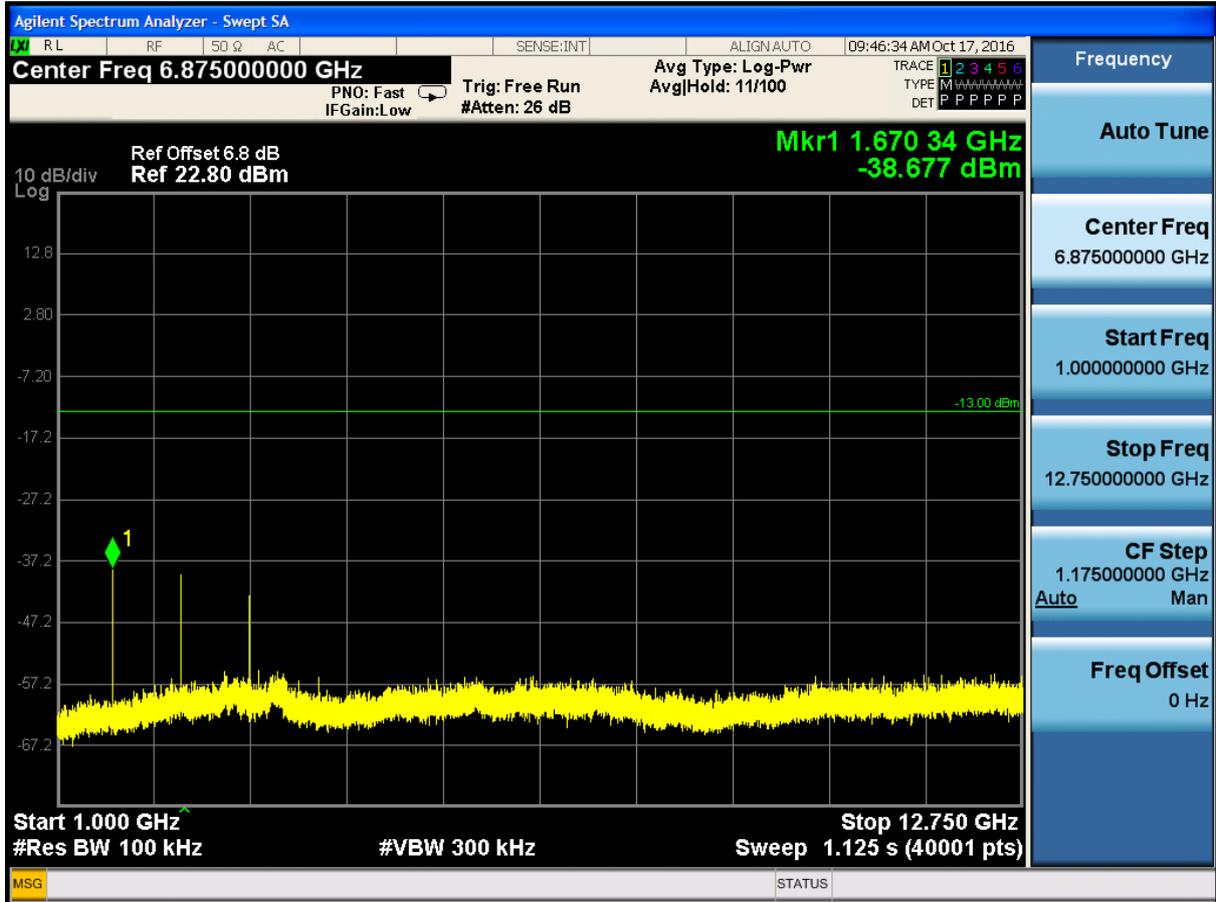
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0





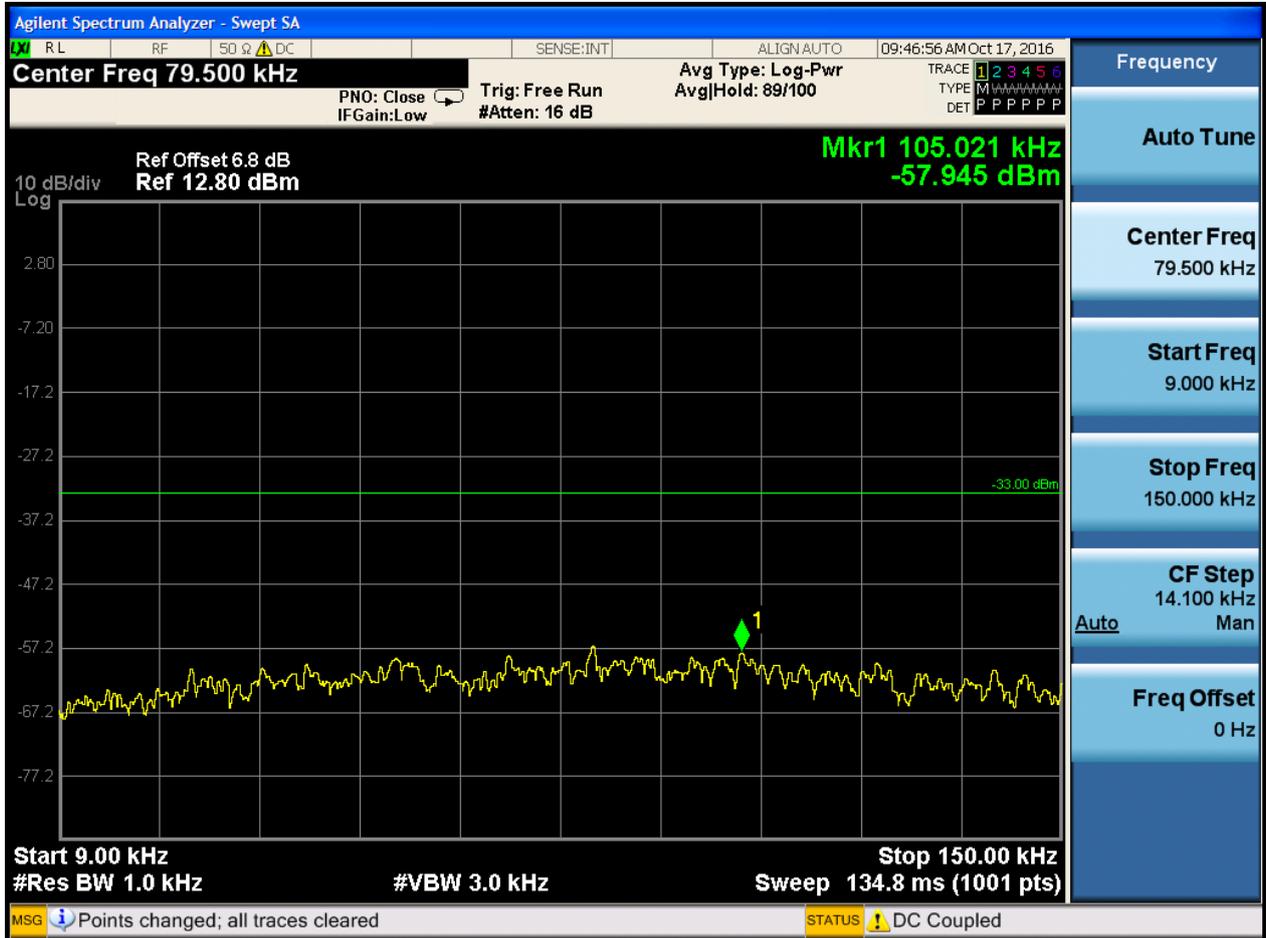




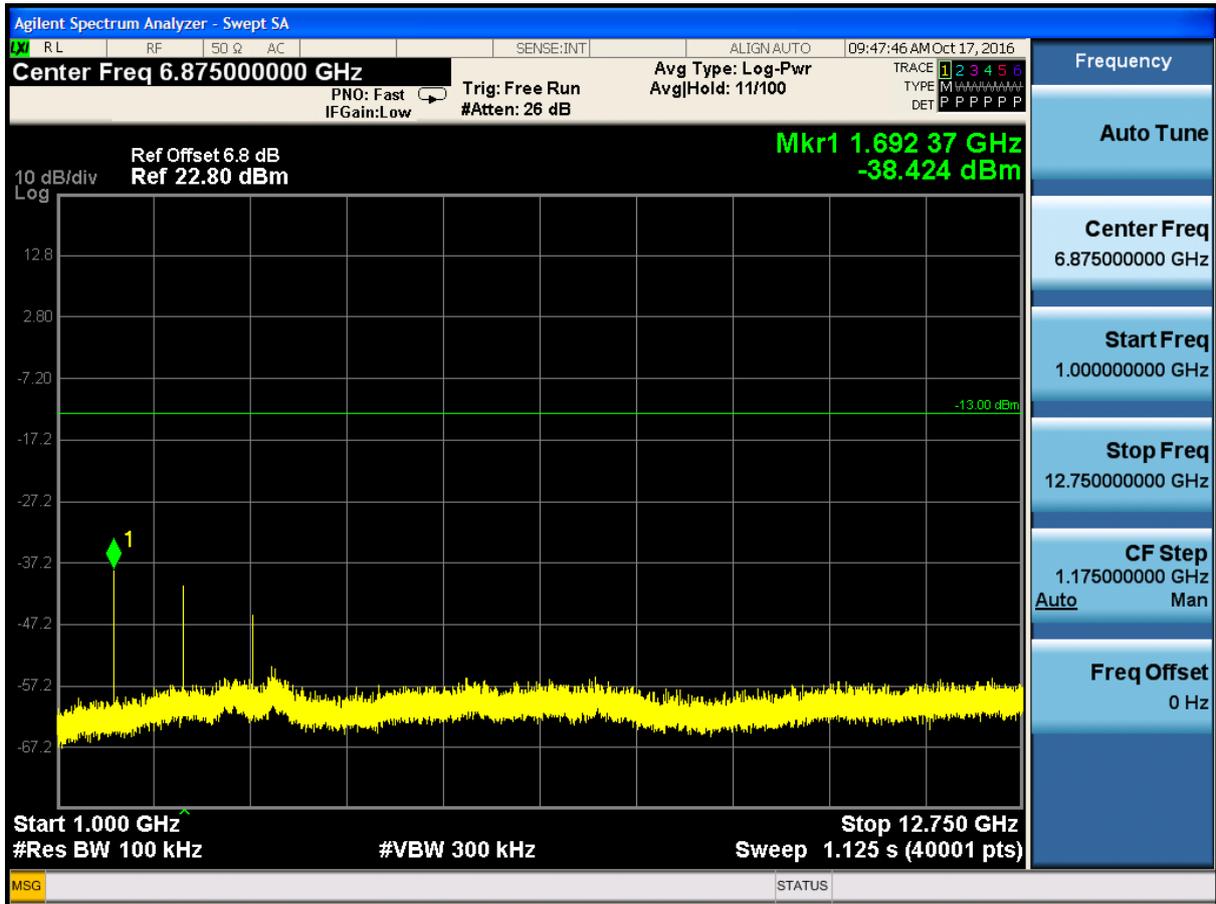


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





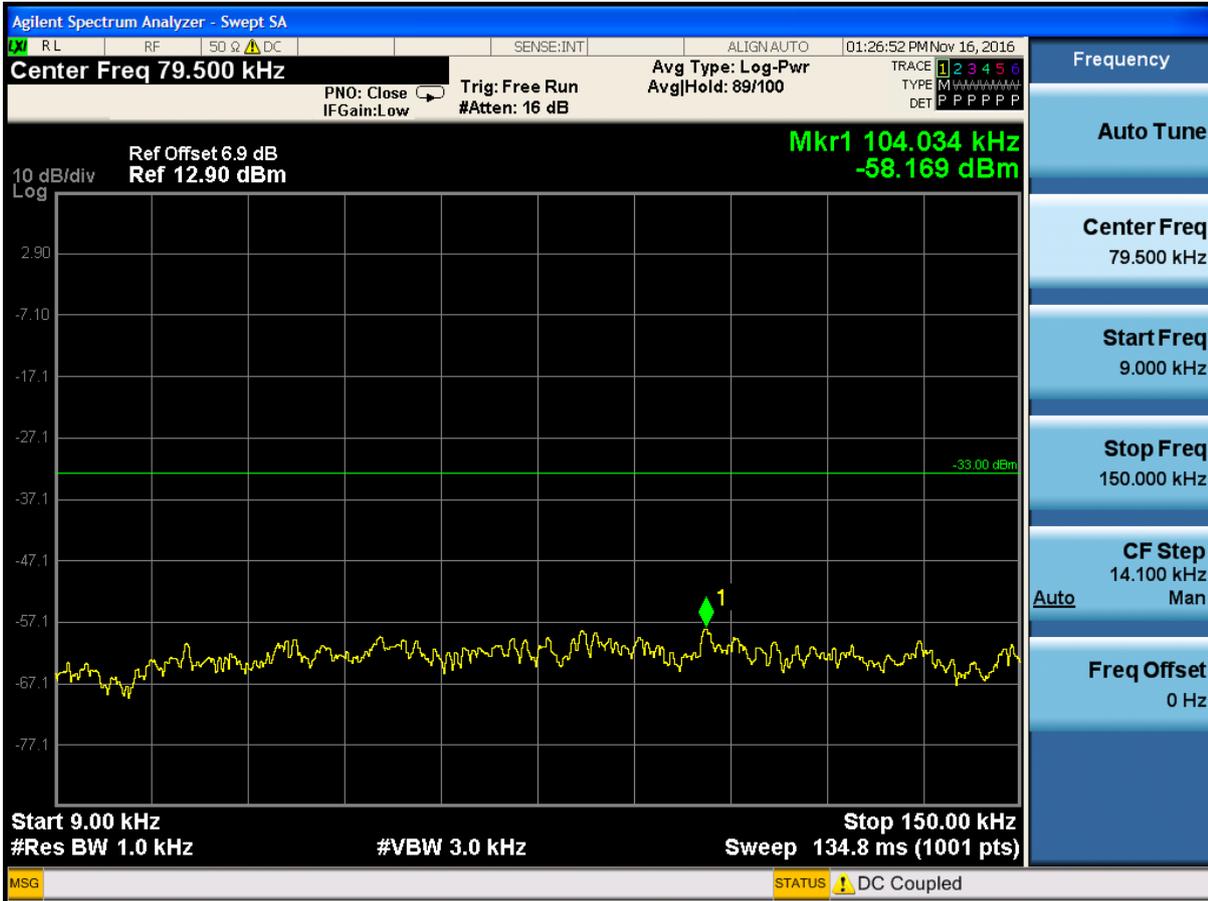




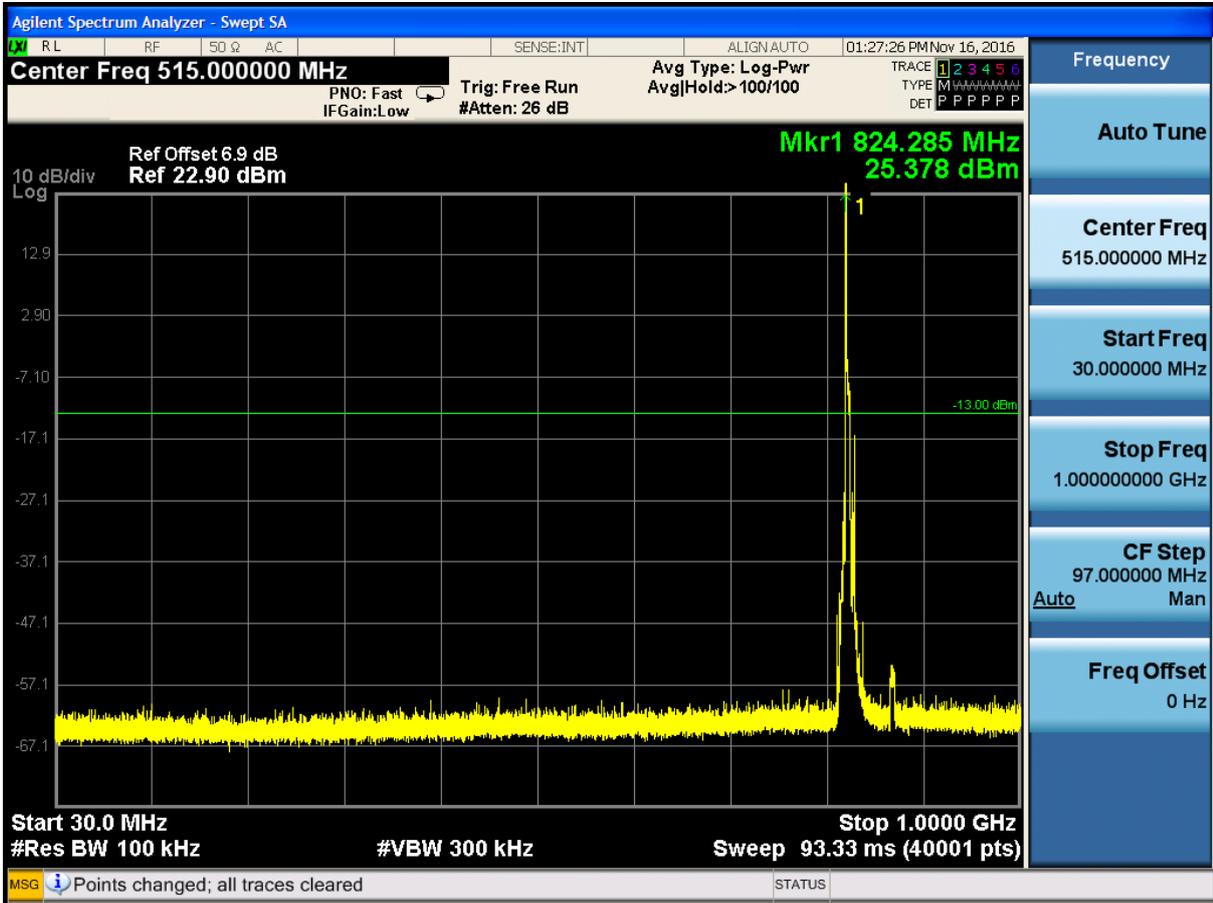
6.1.1.1.3 Test Bandwidth = 5

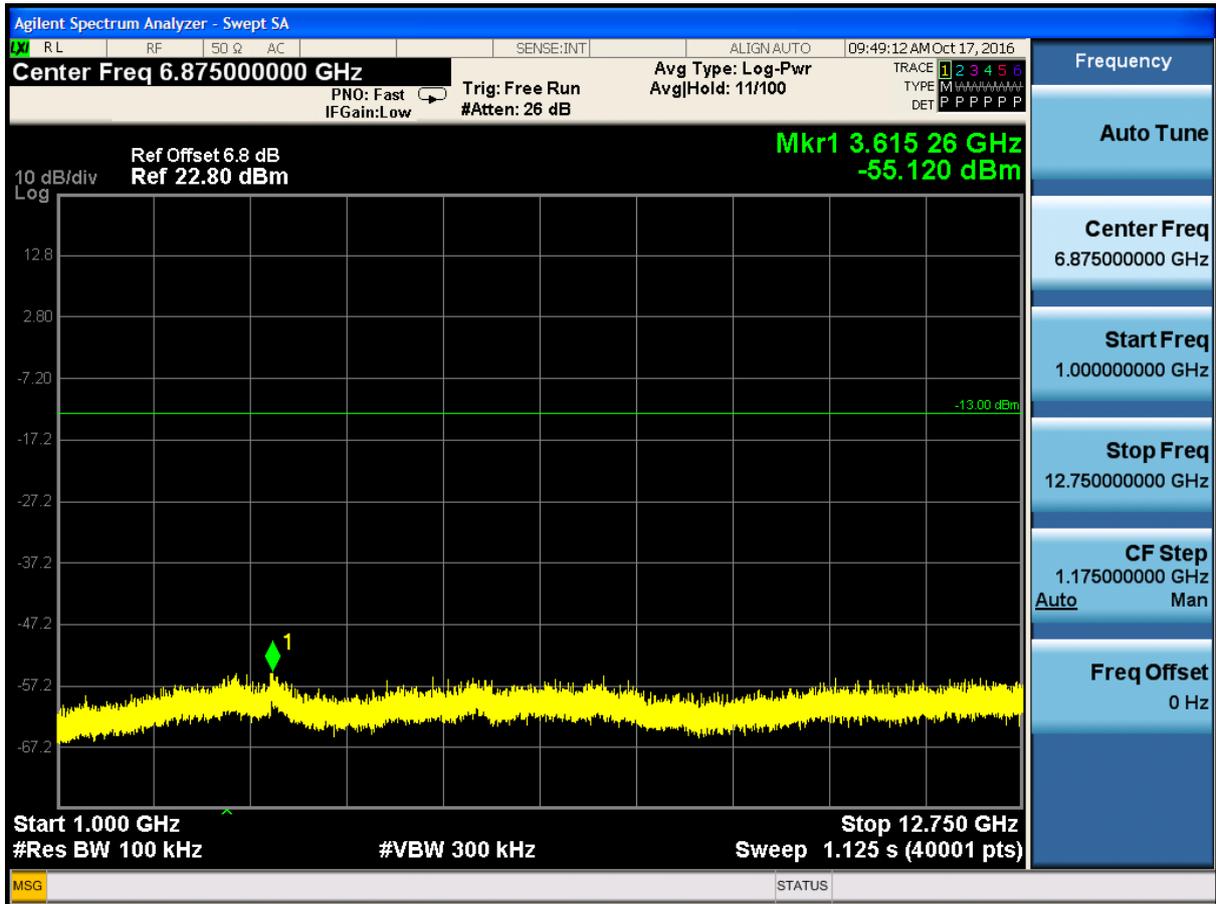
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0









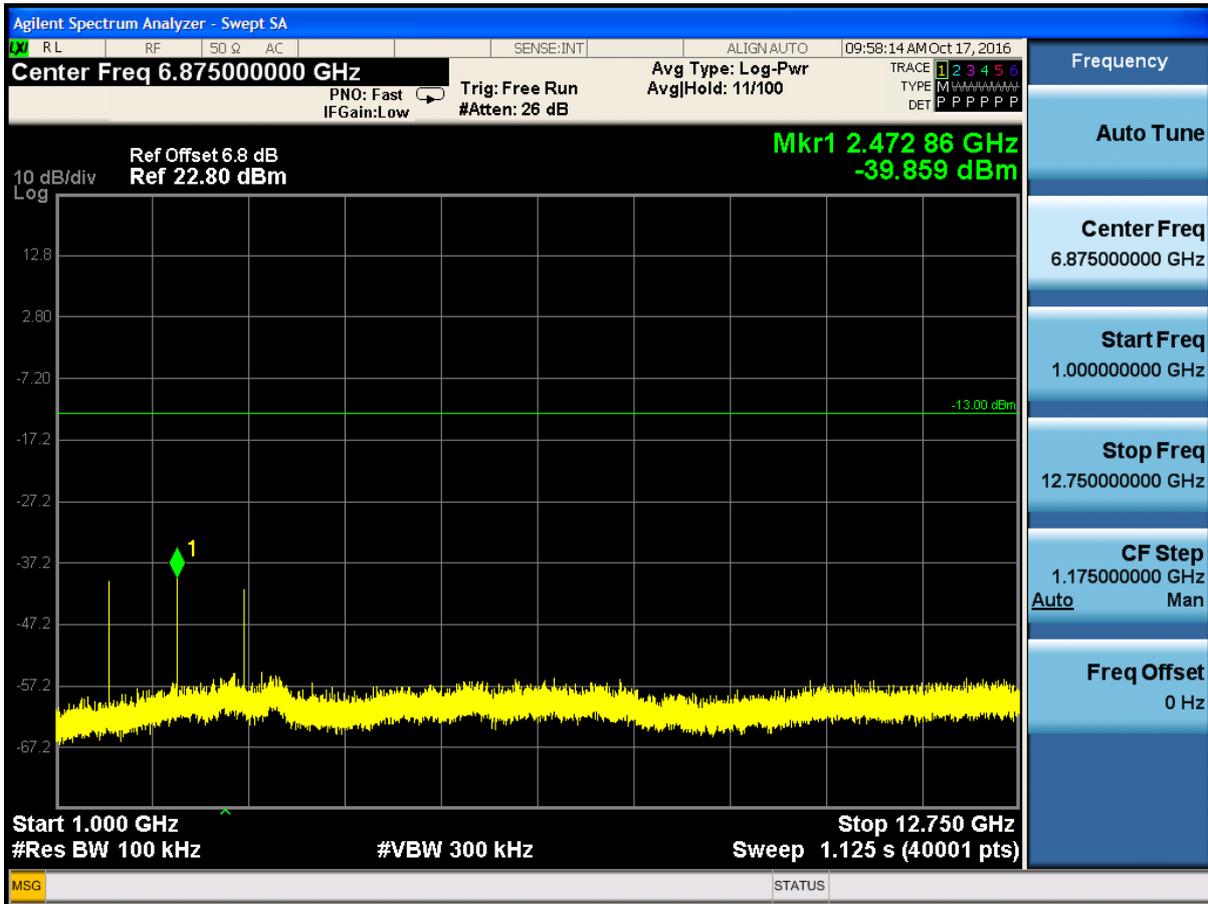


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



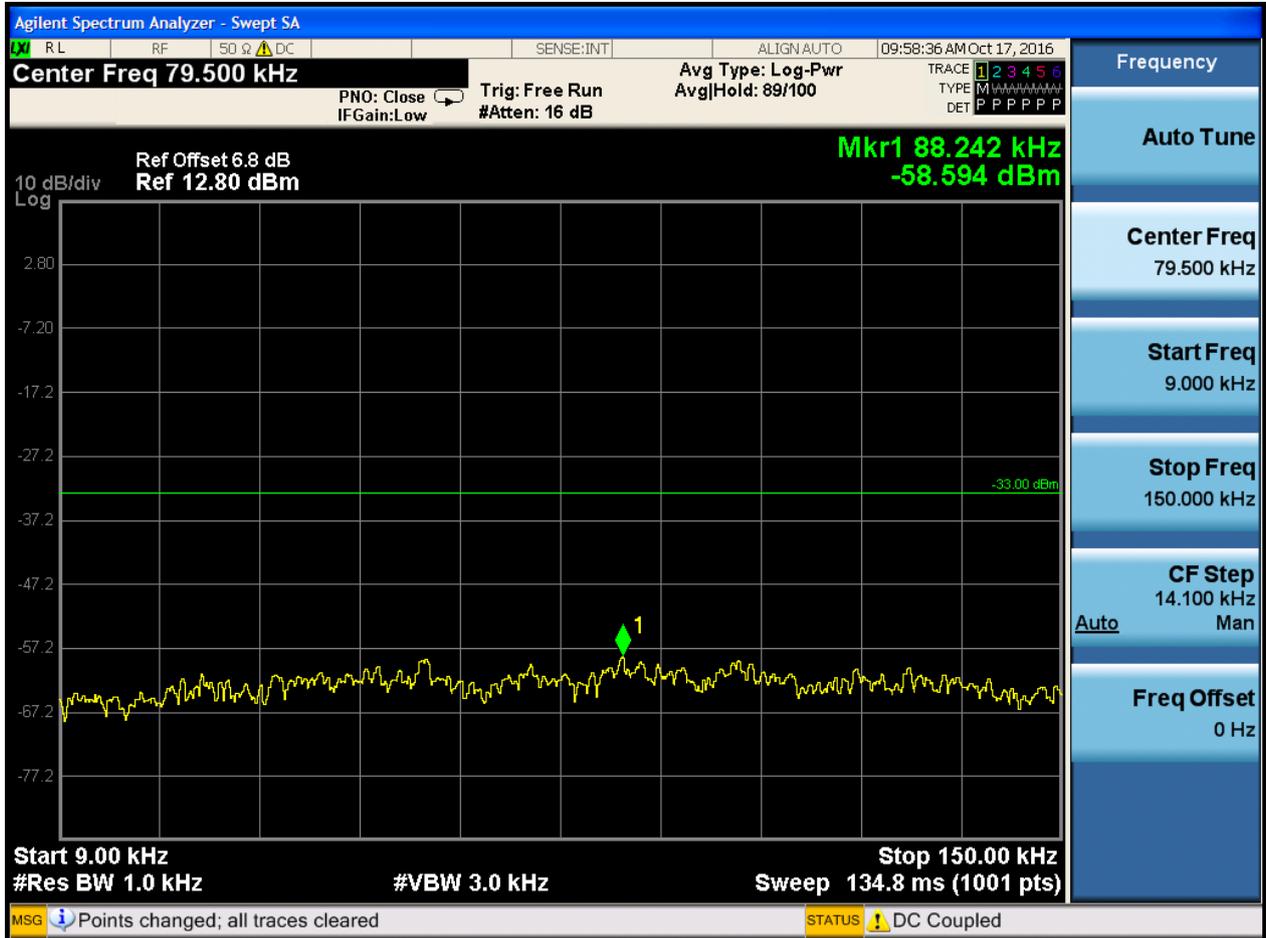


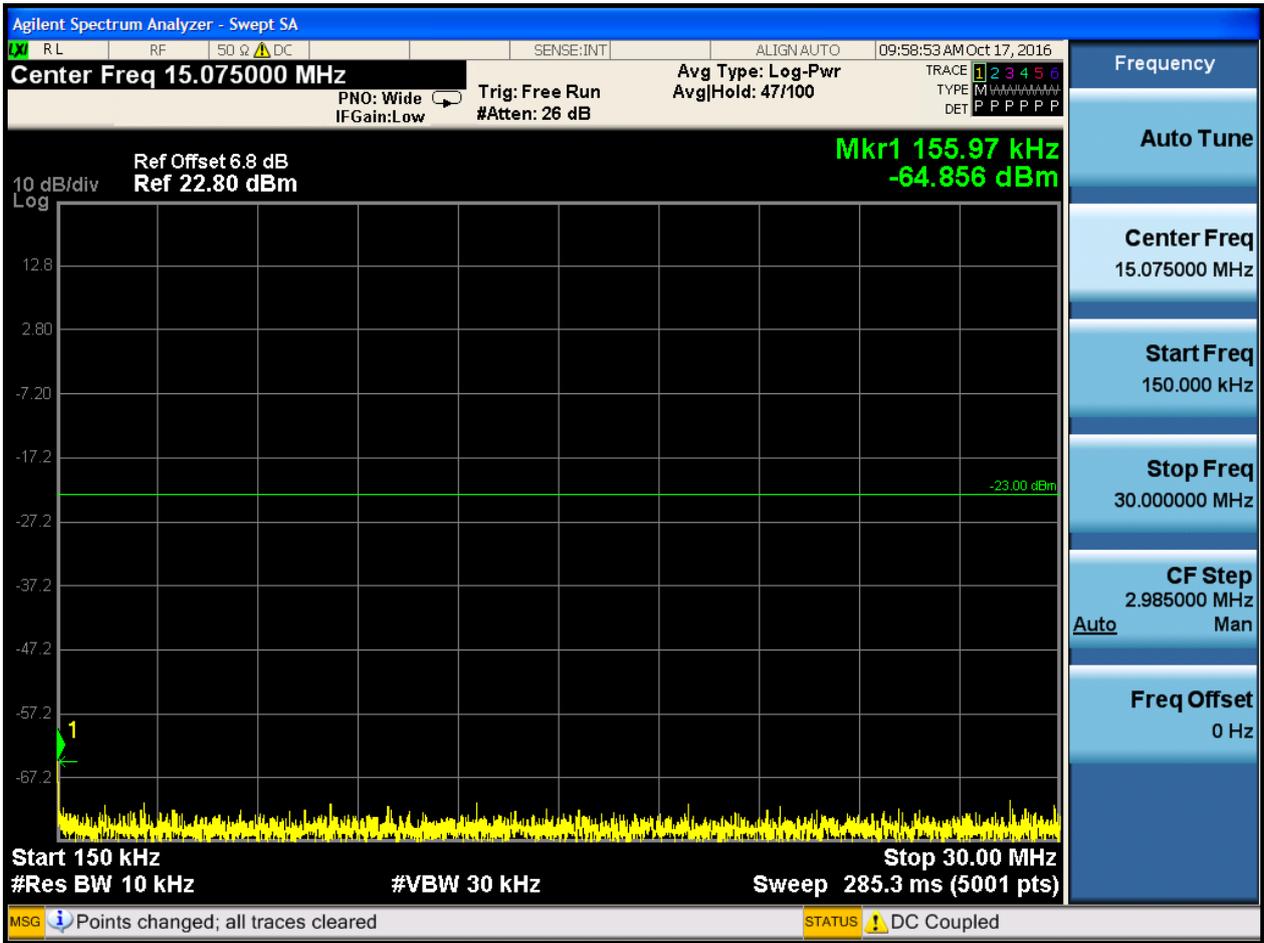


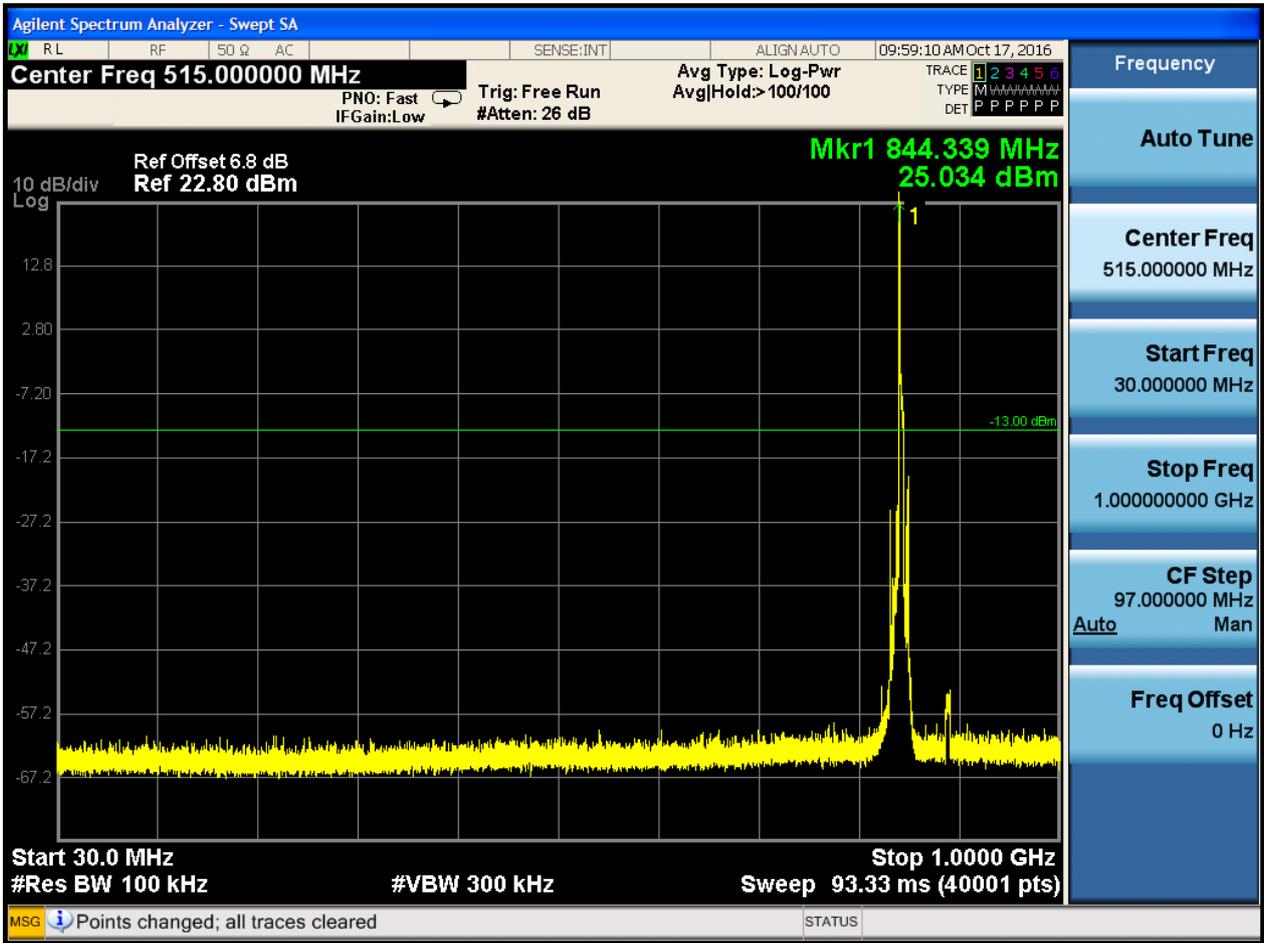


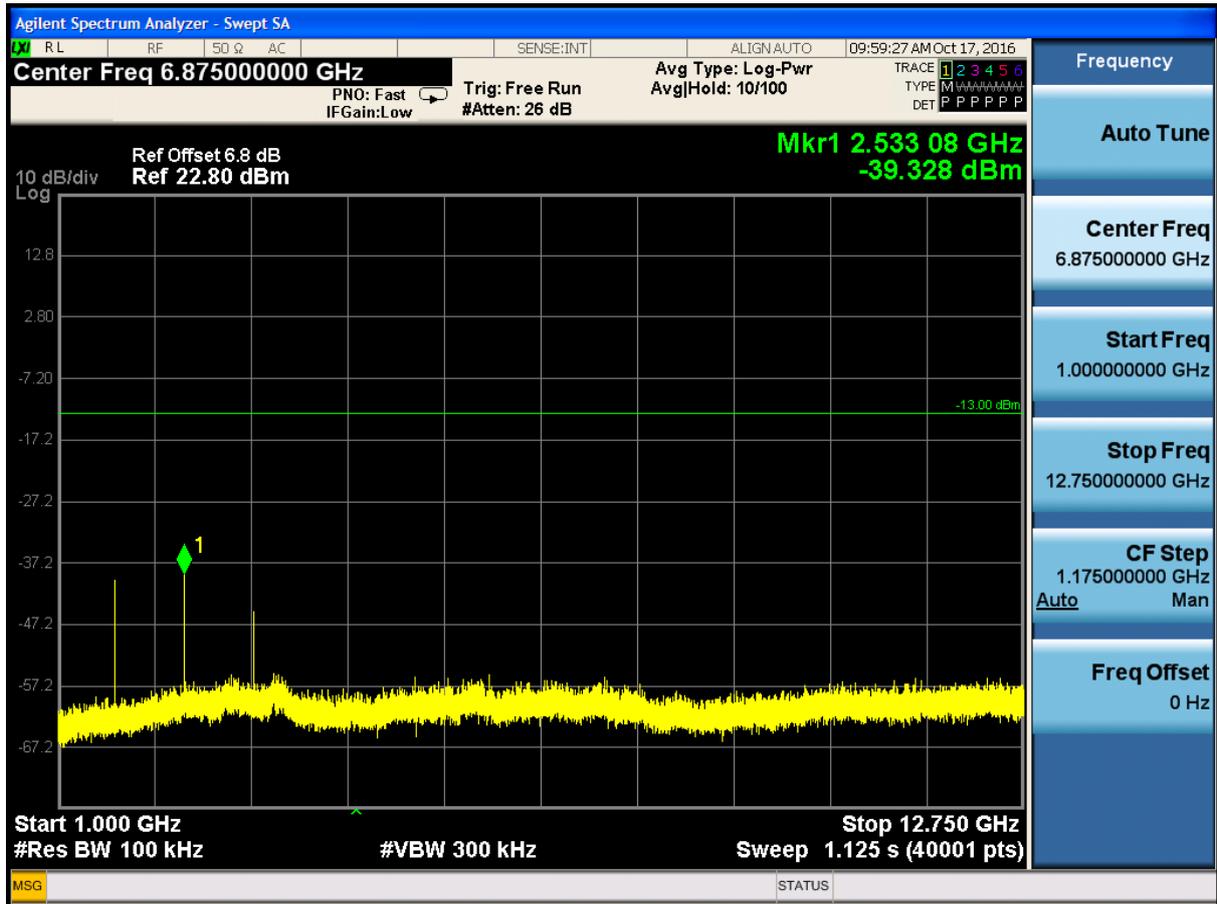
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







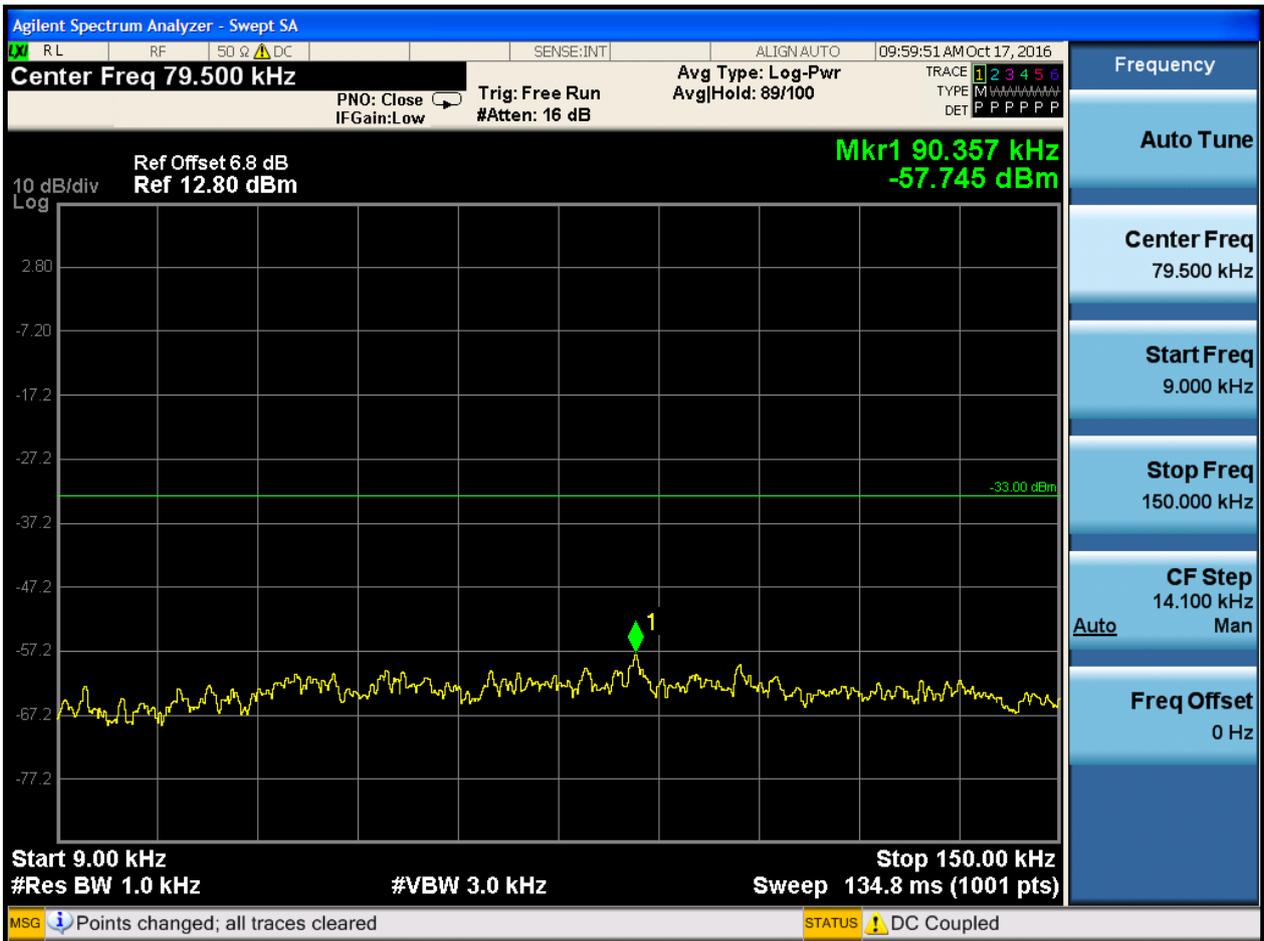


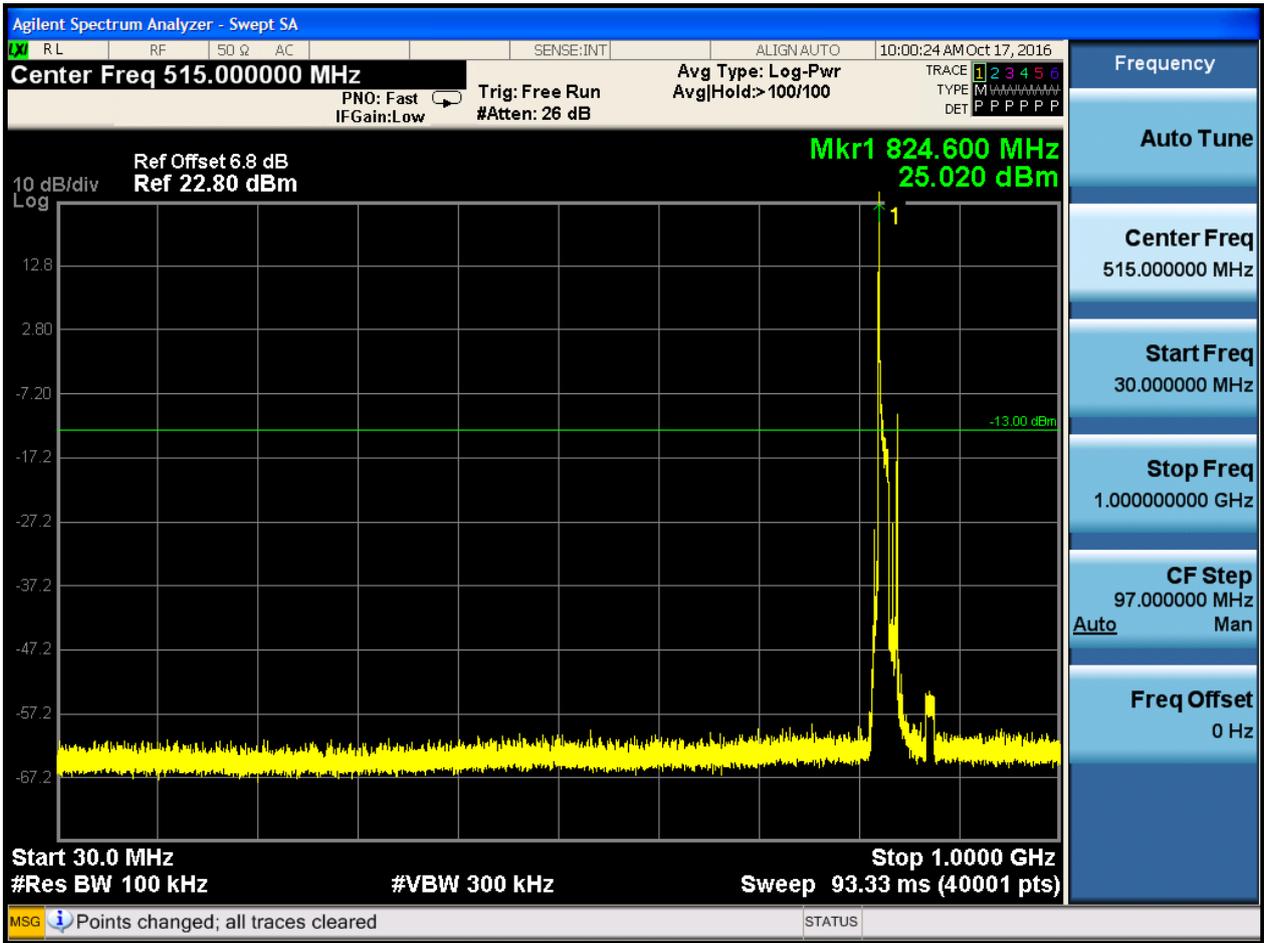


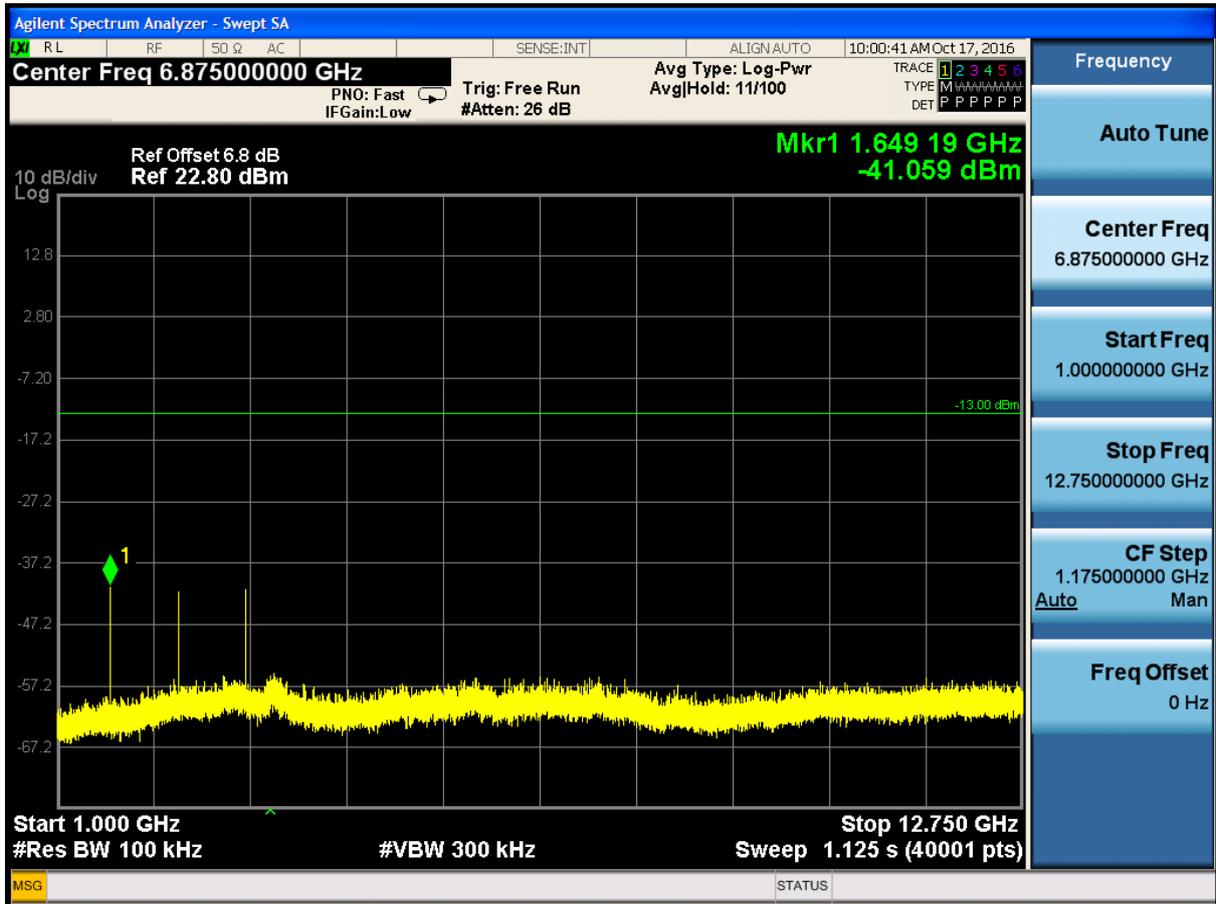
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



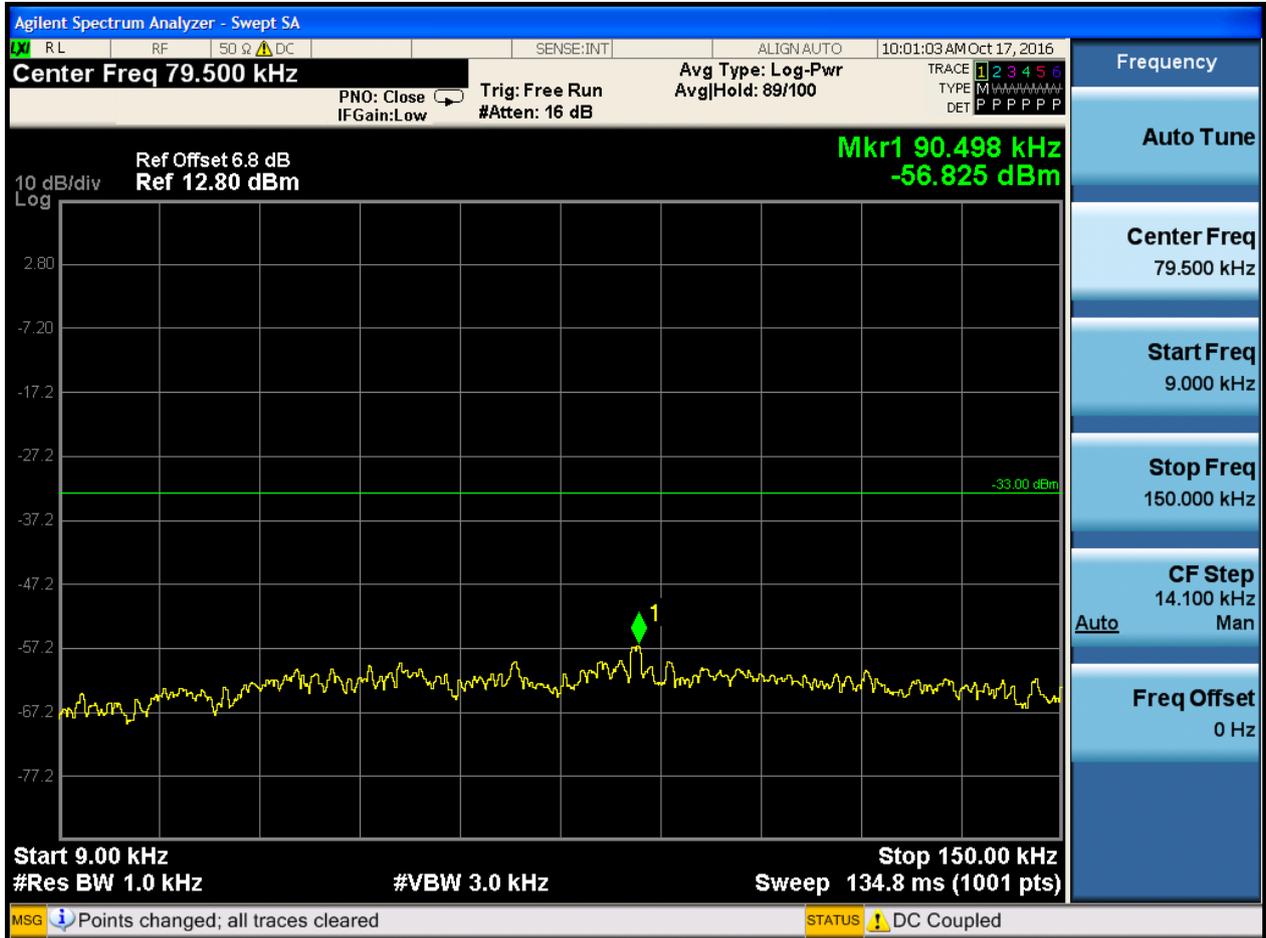




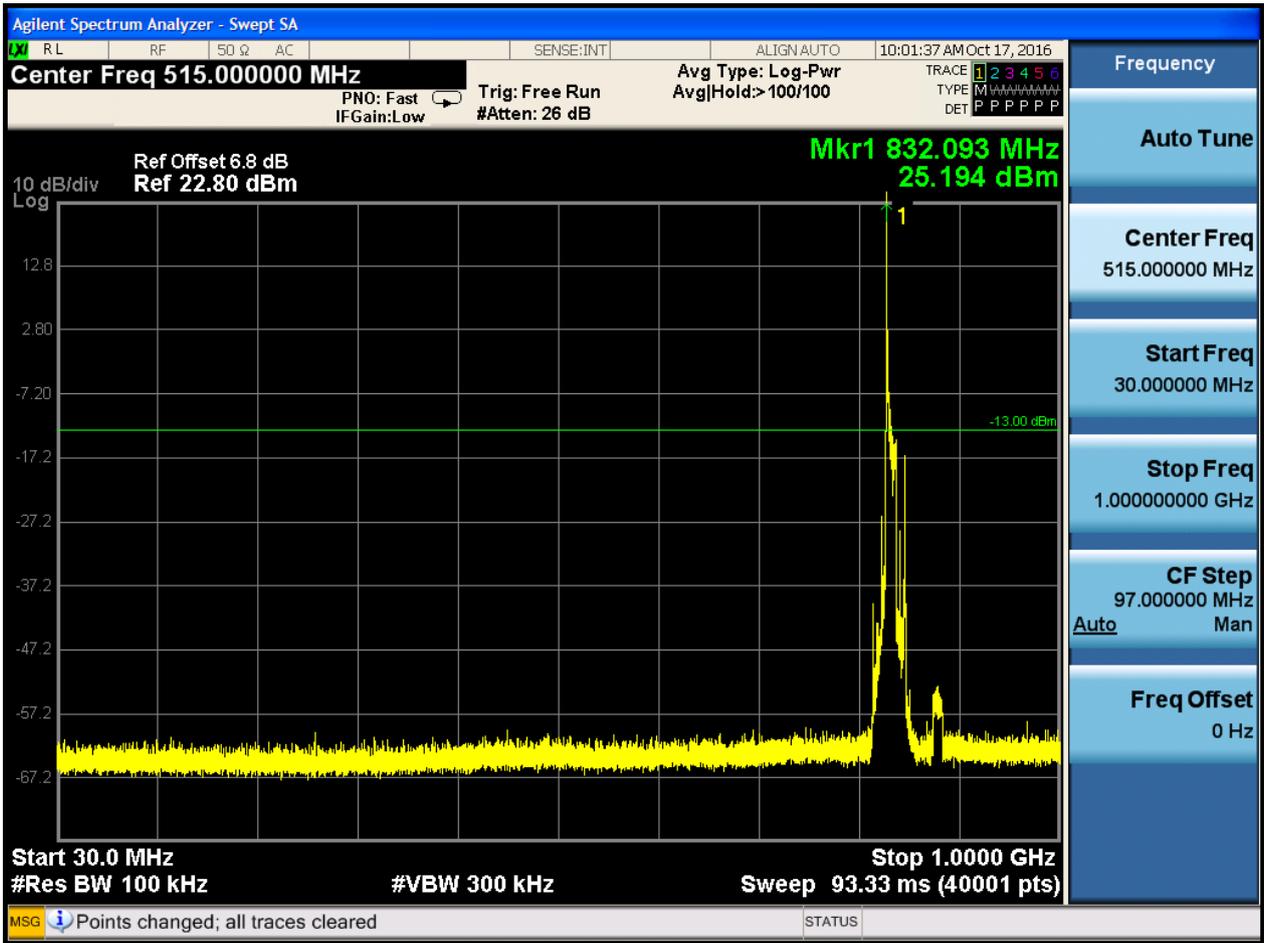


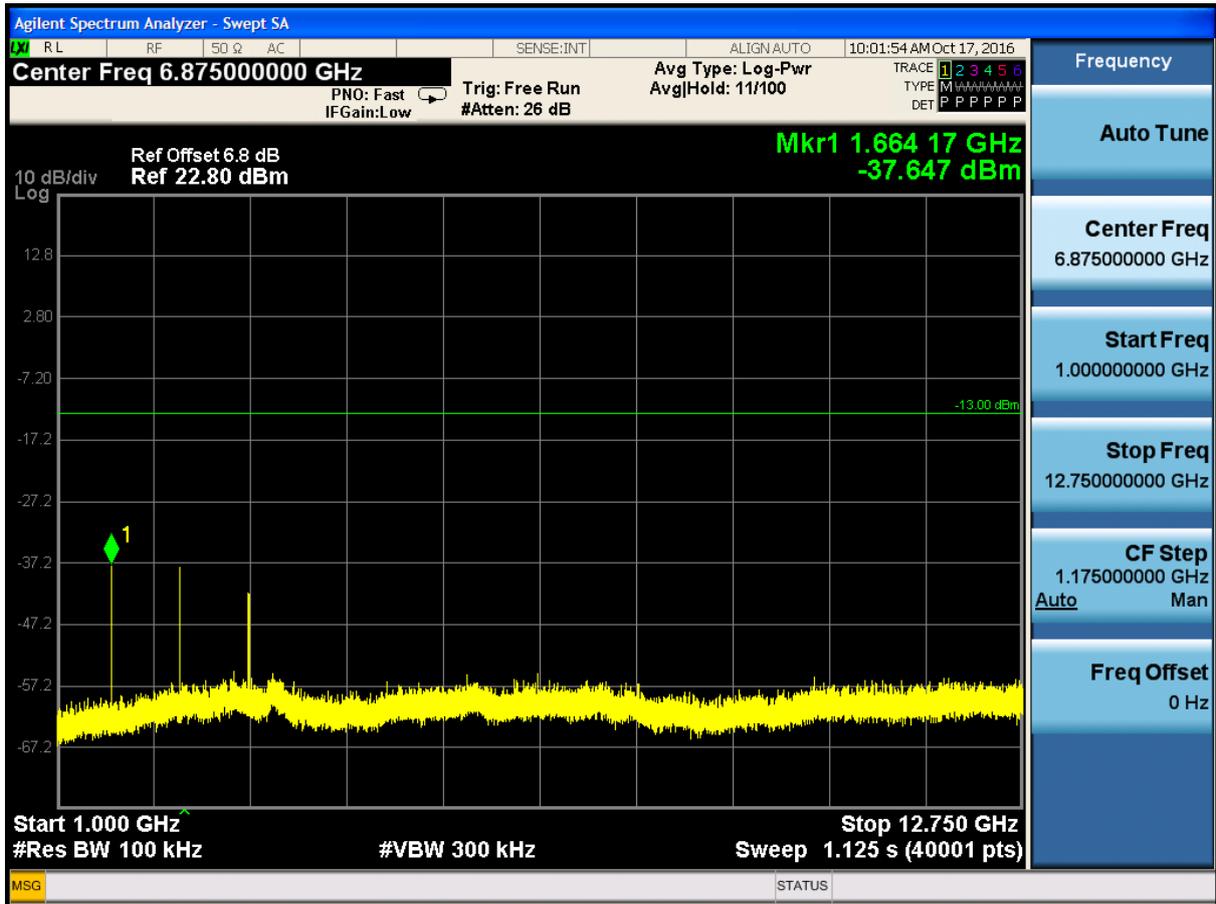
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





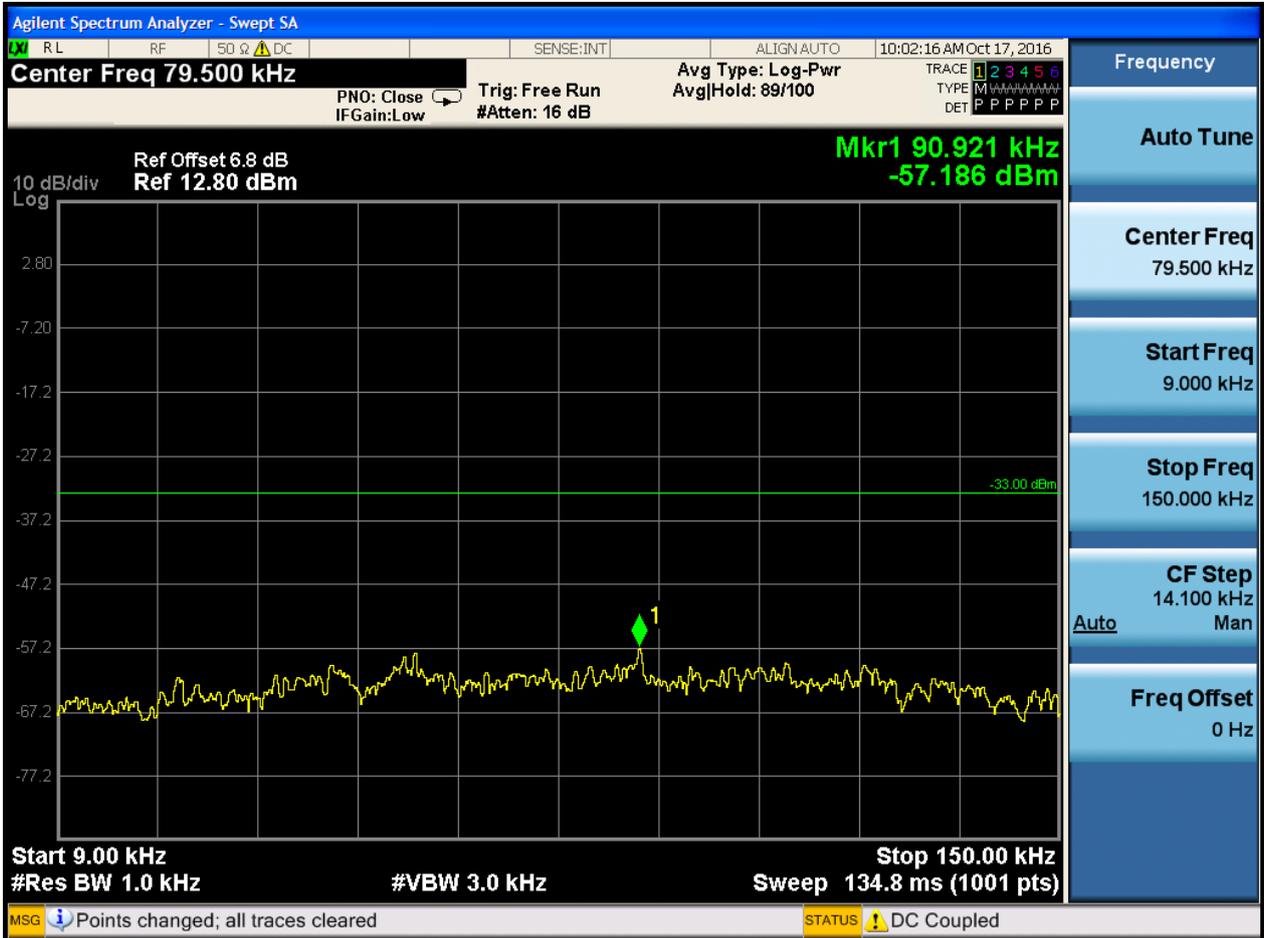


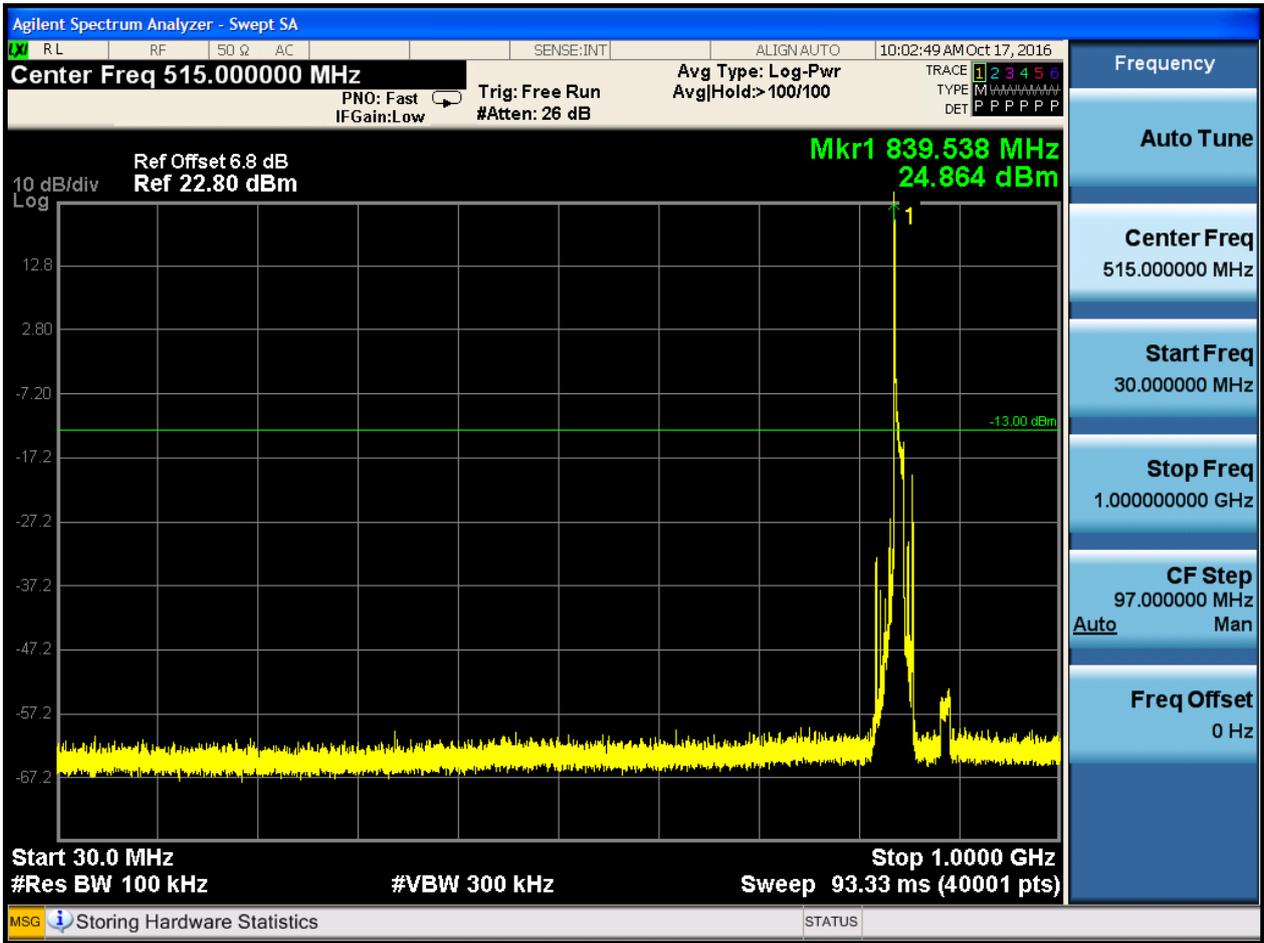


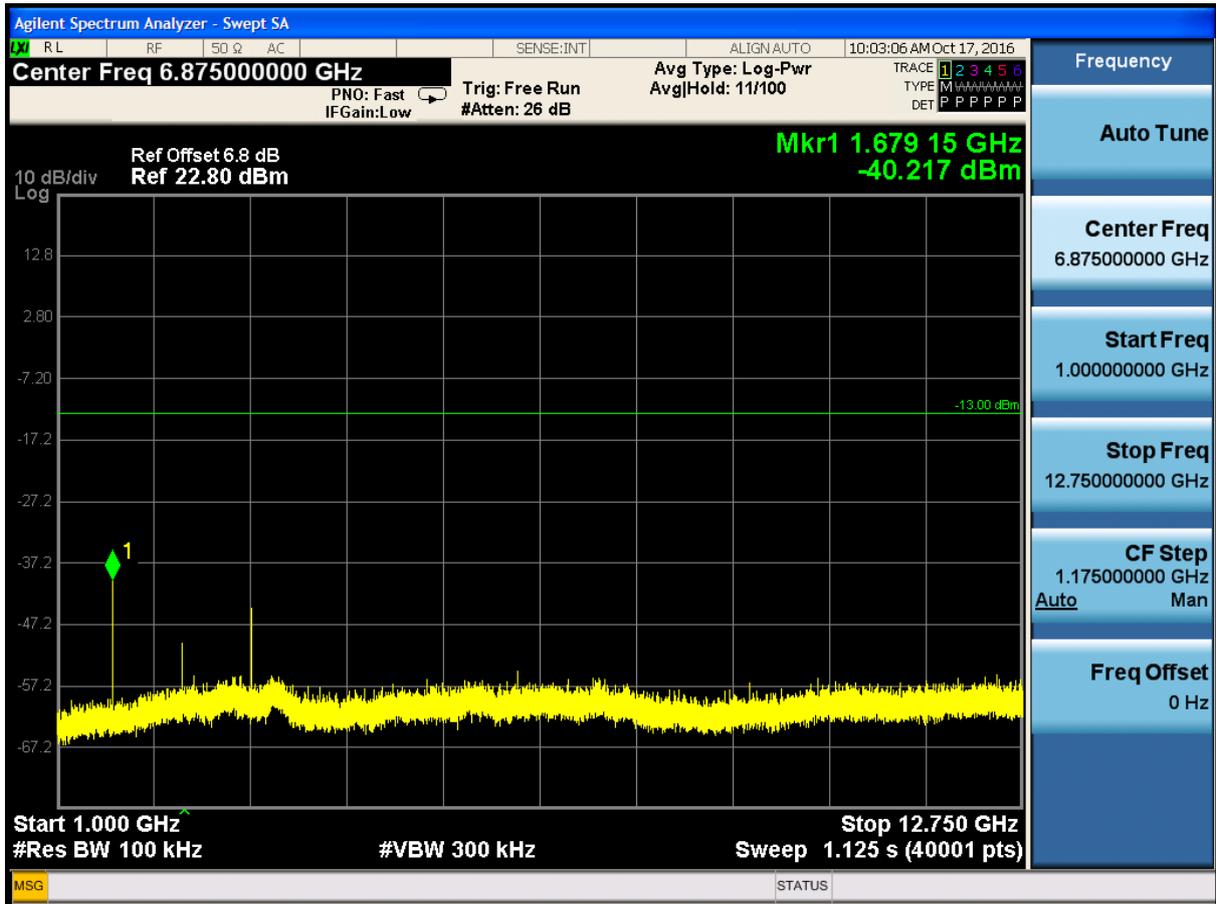


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







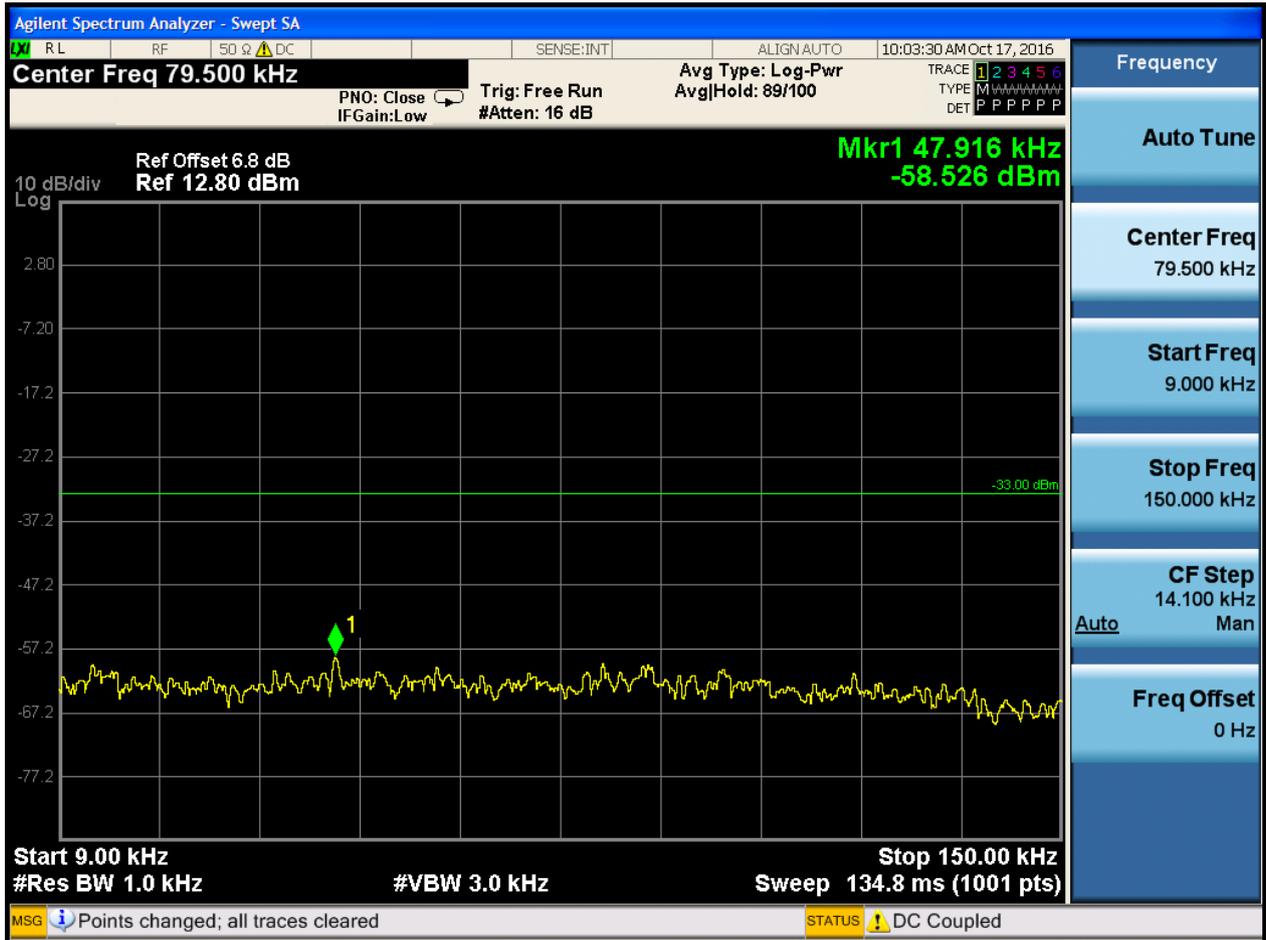


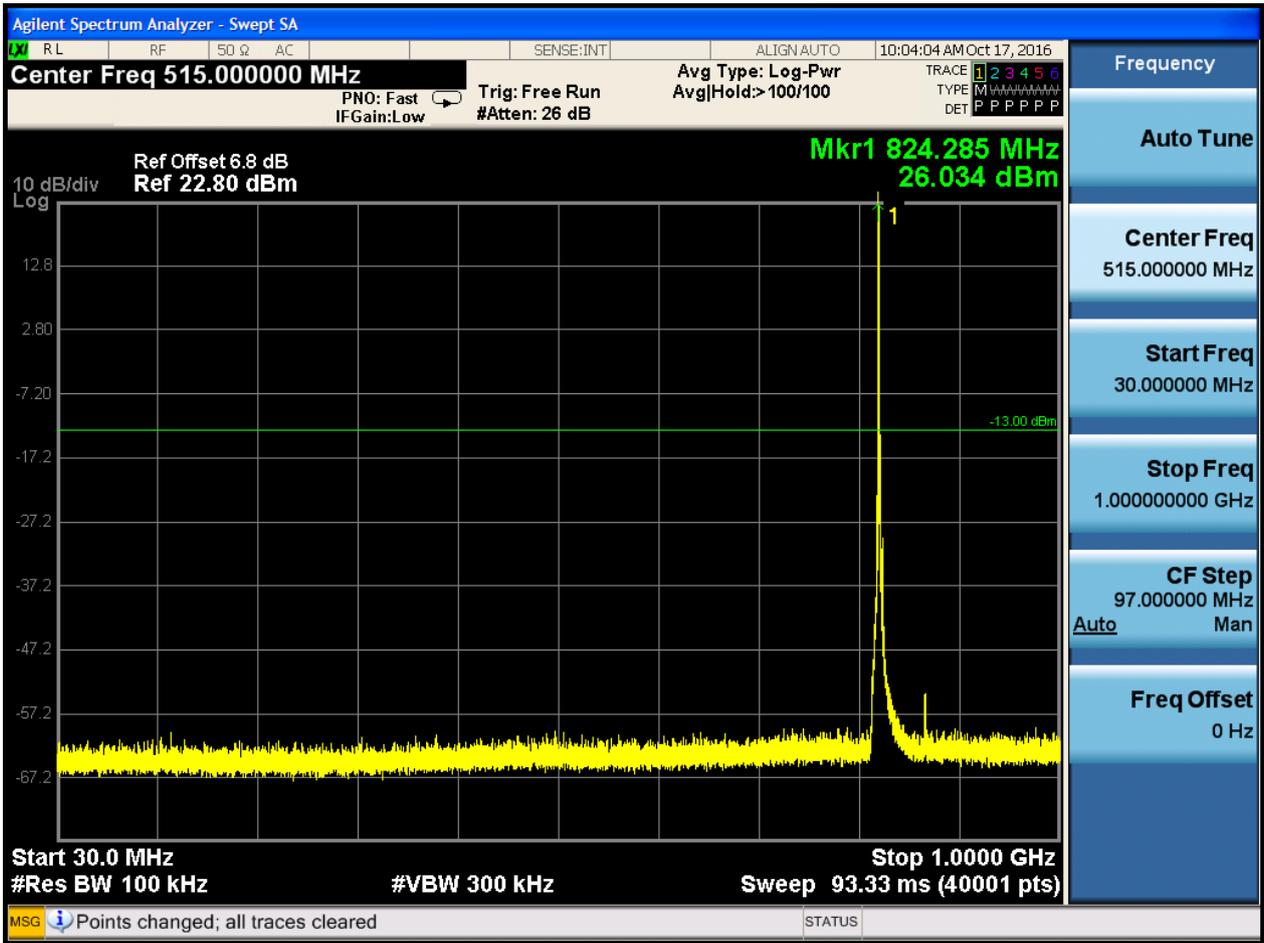
6.1.1.2 Test Mode = LTE/TM2

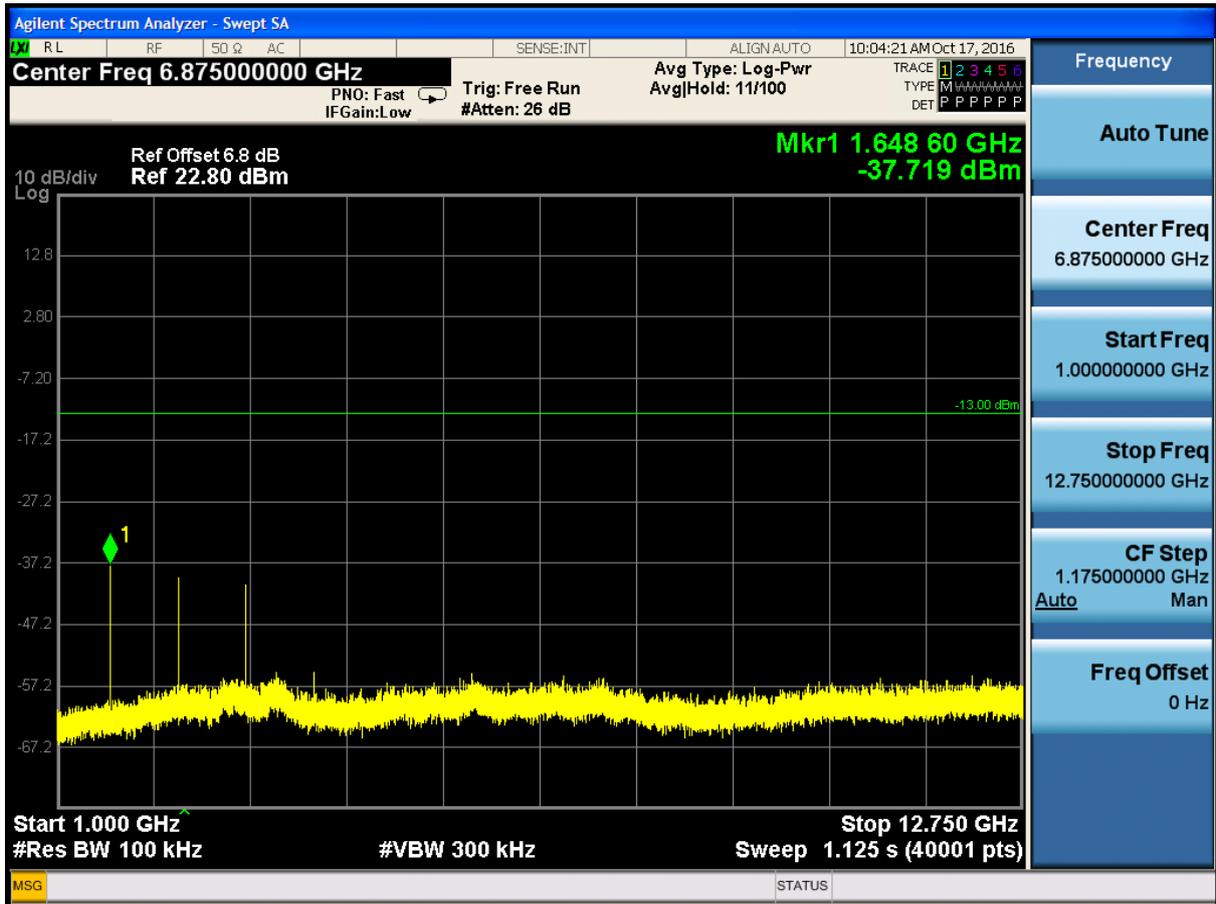
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



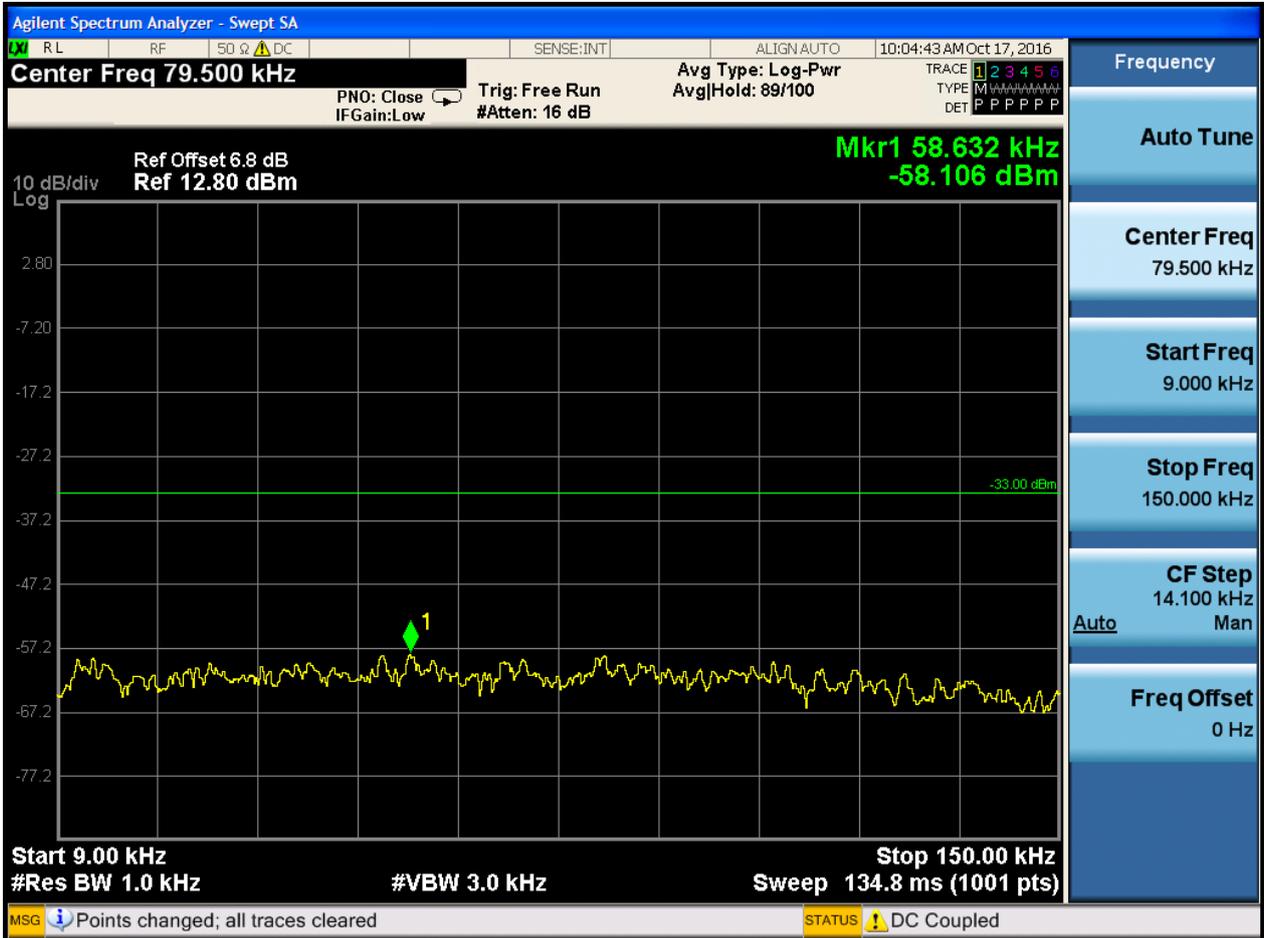


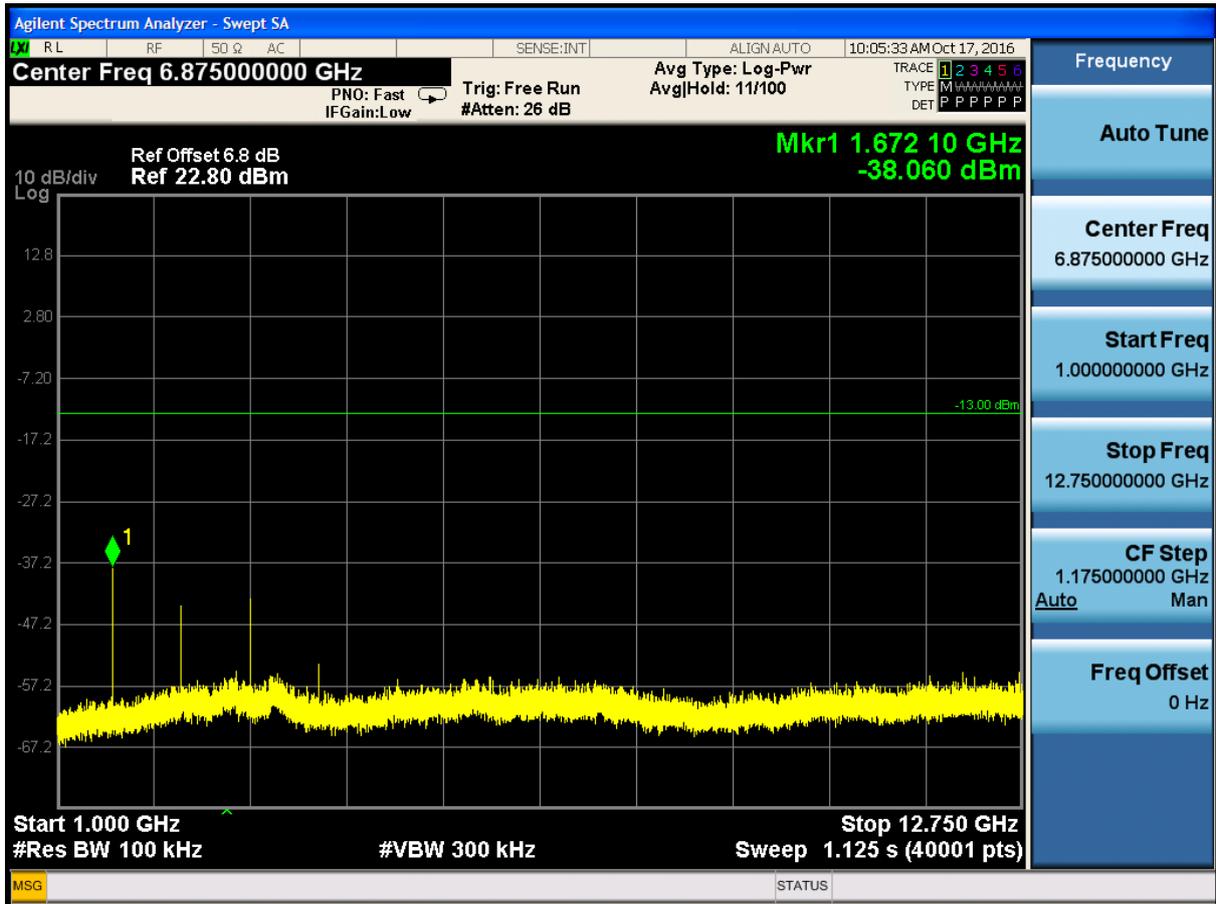




6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

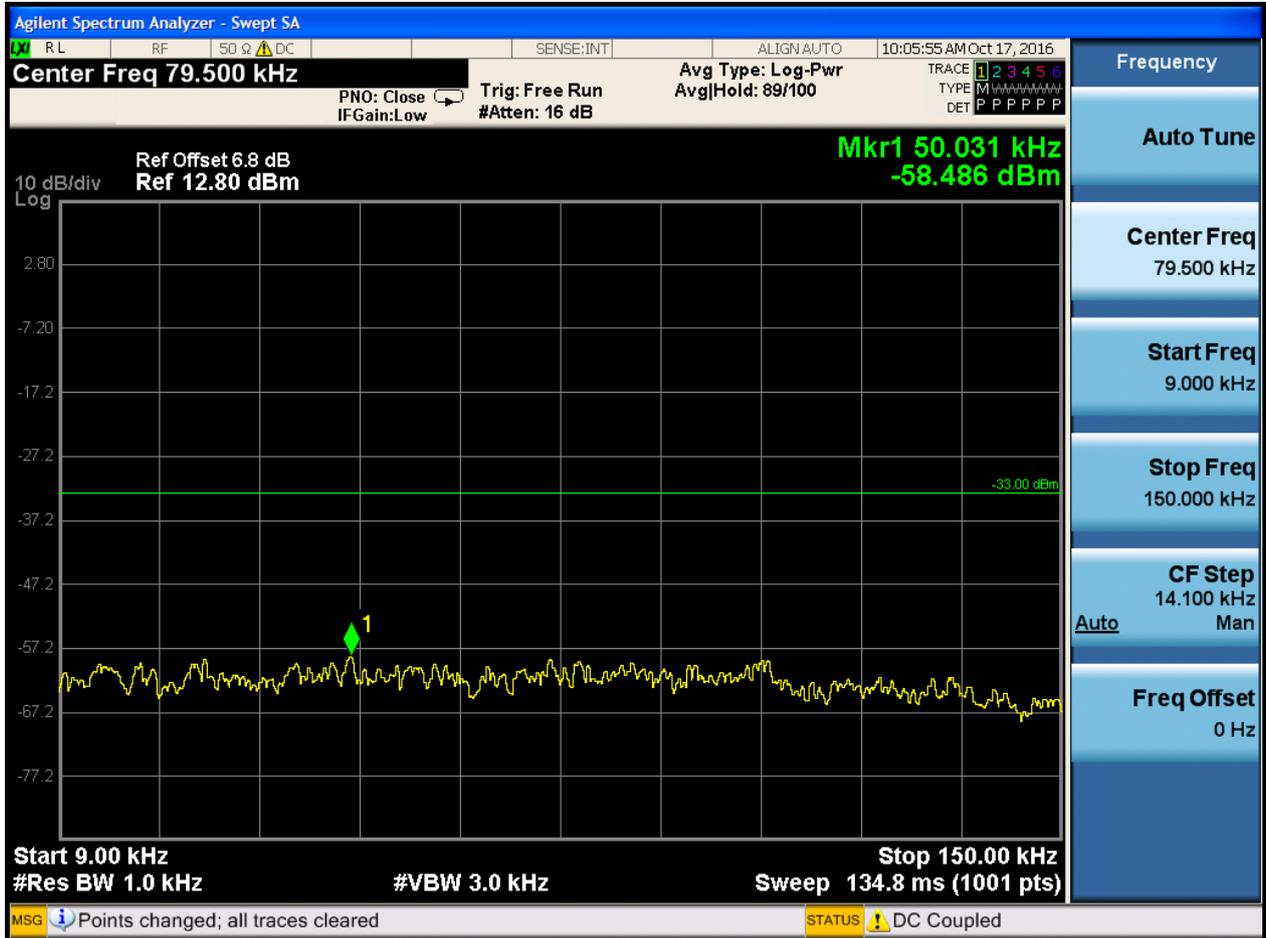


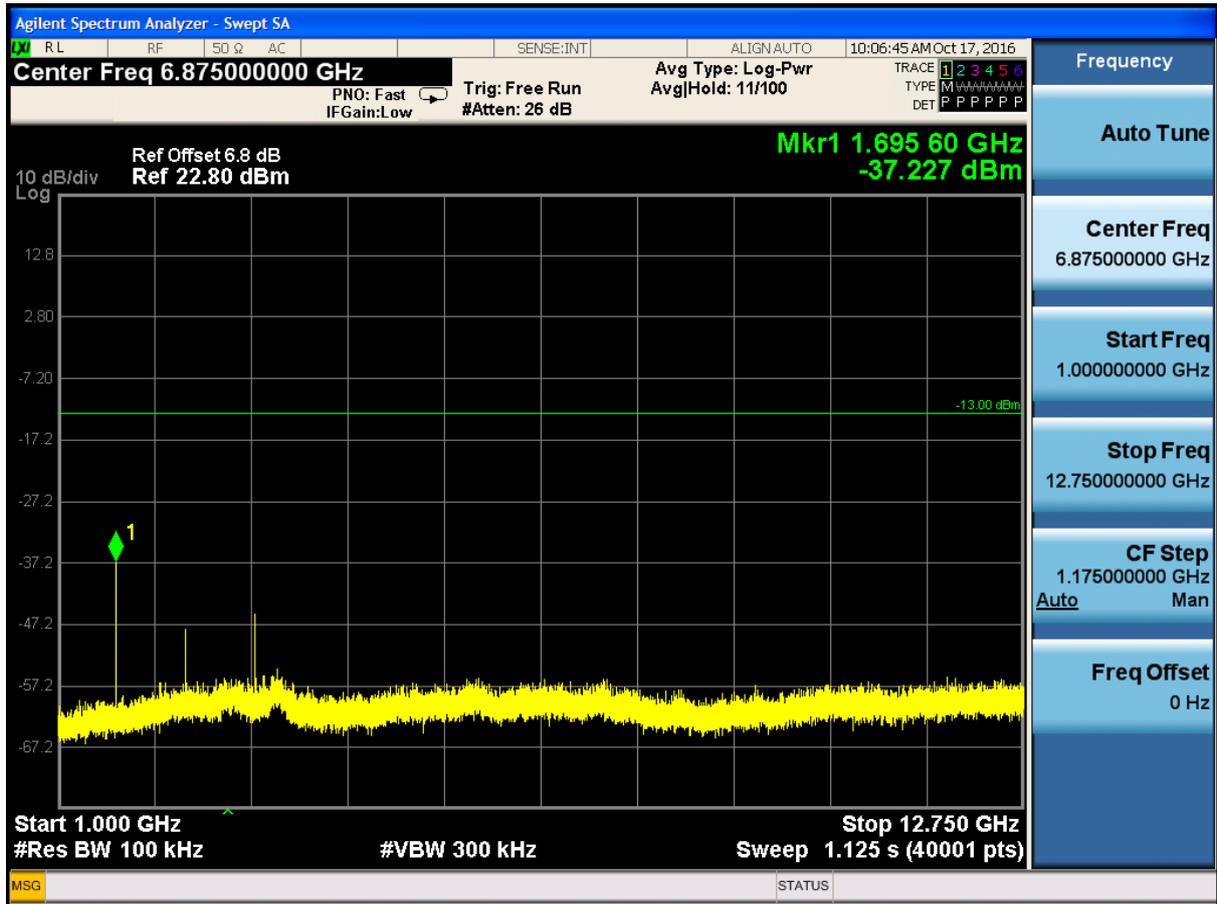




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





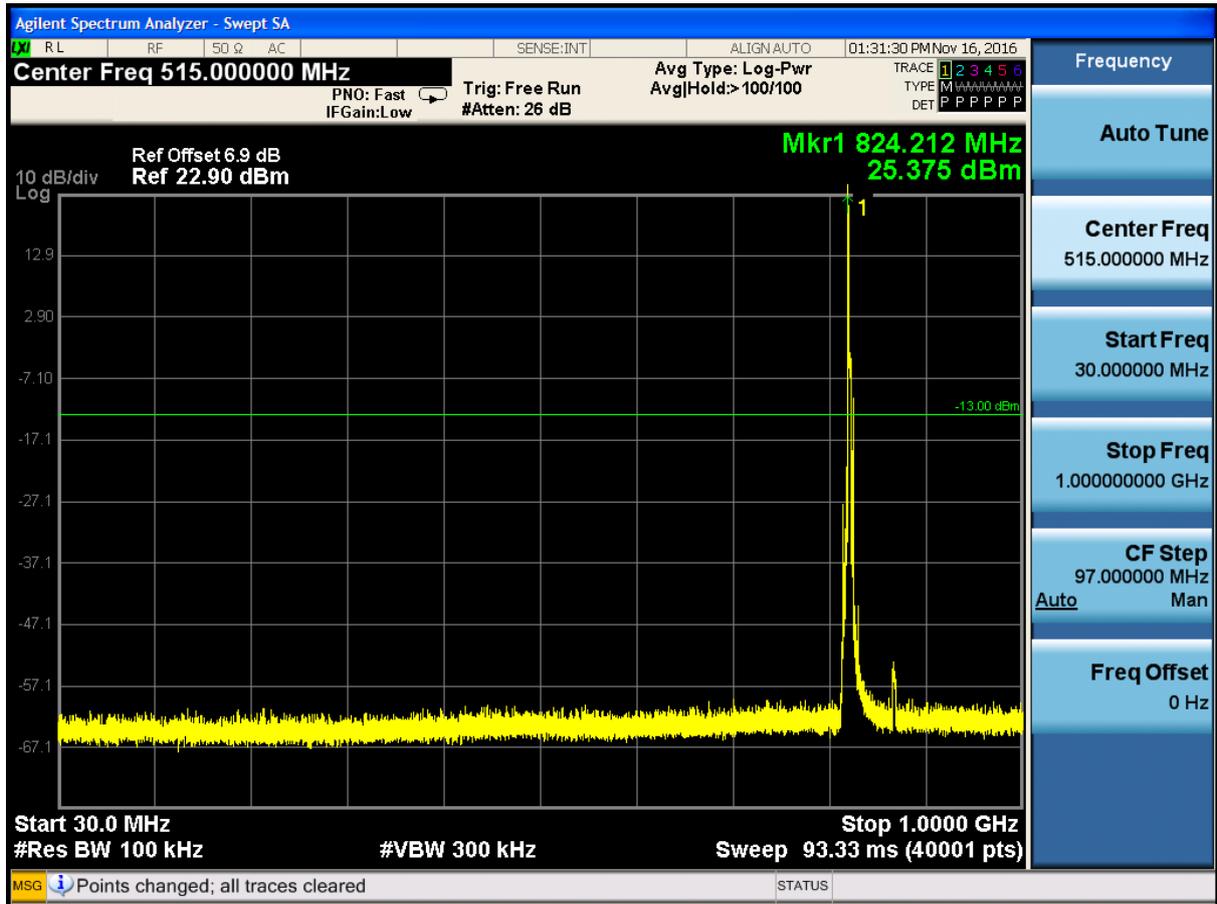


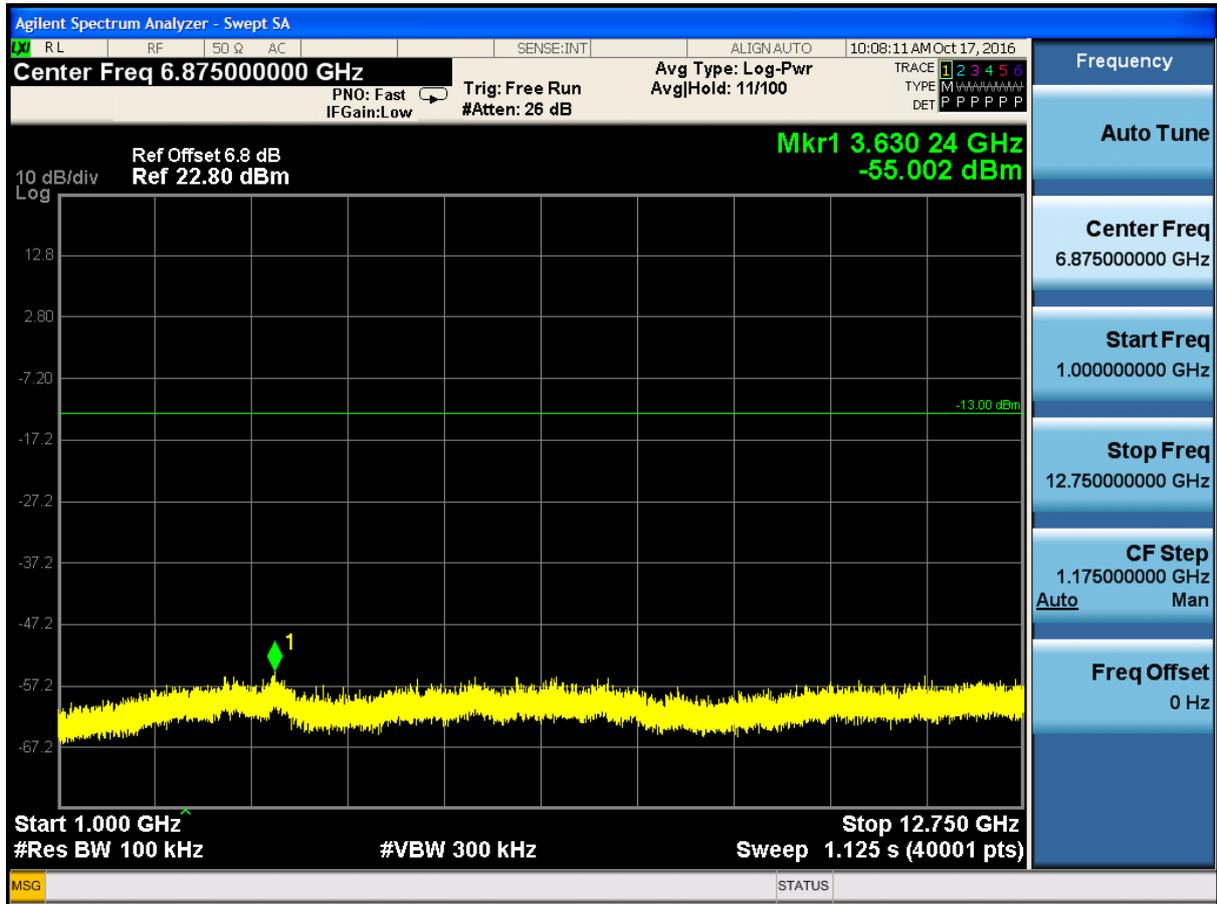
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



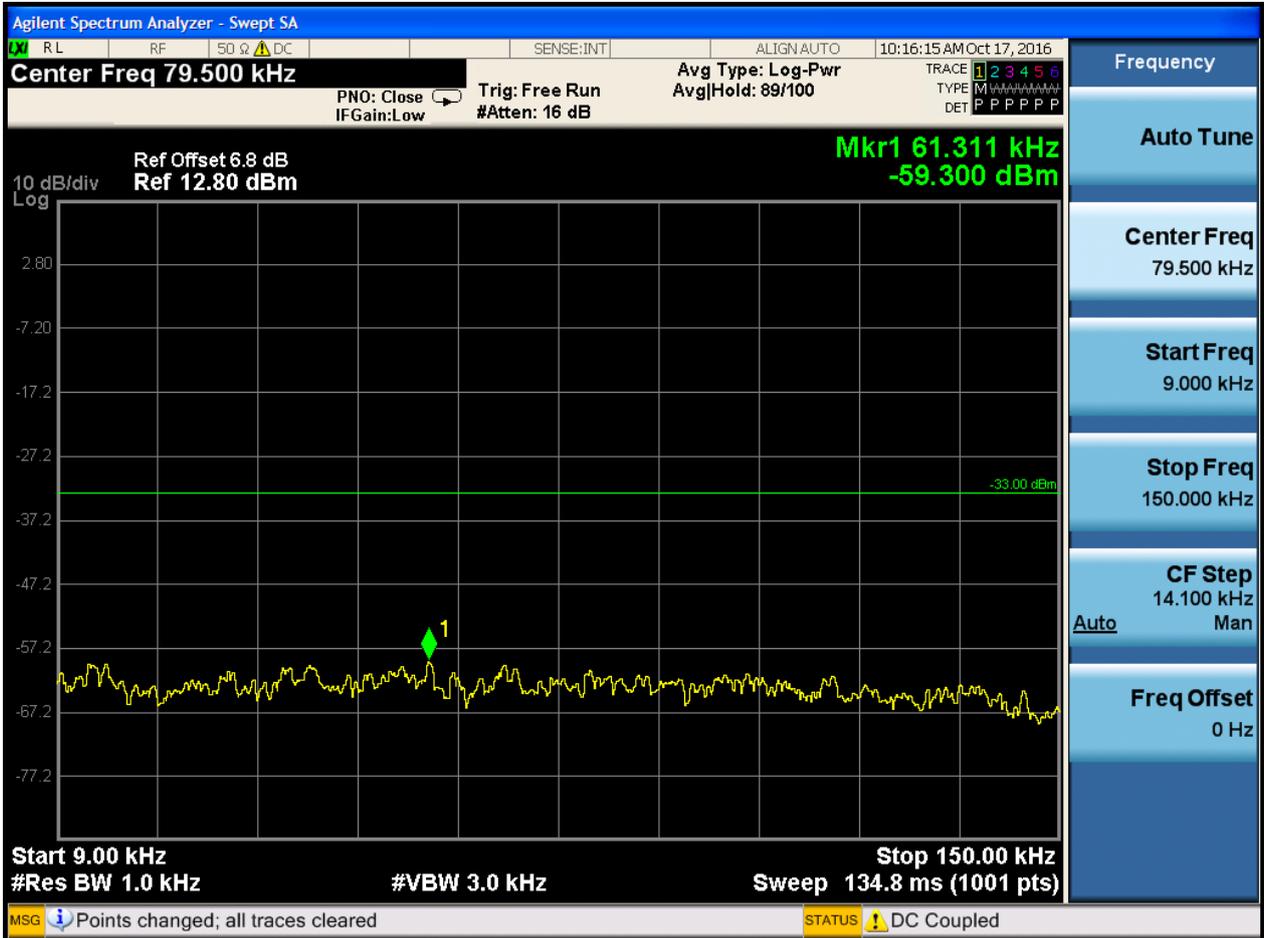


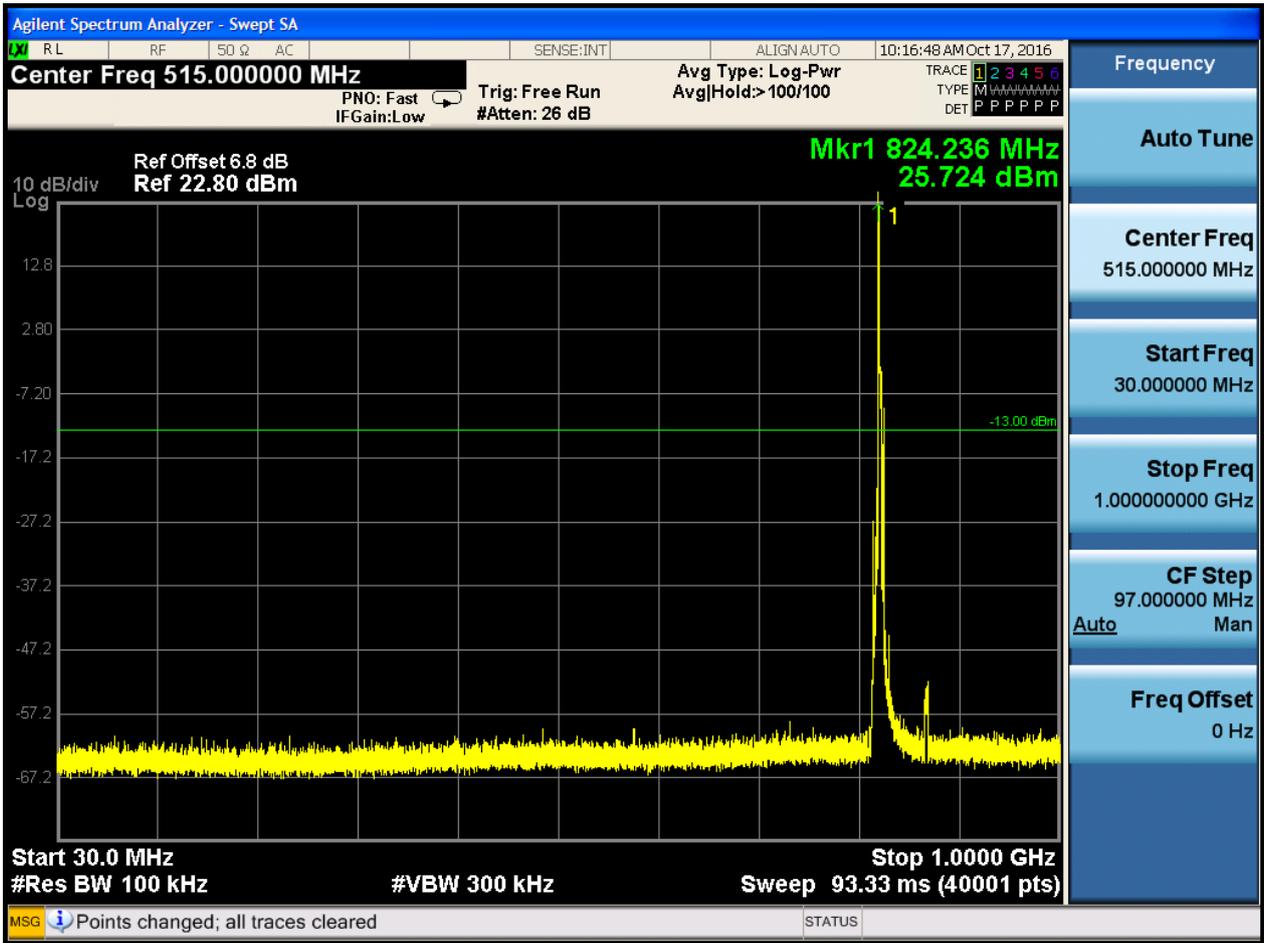


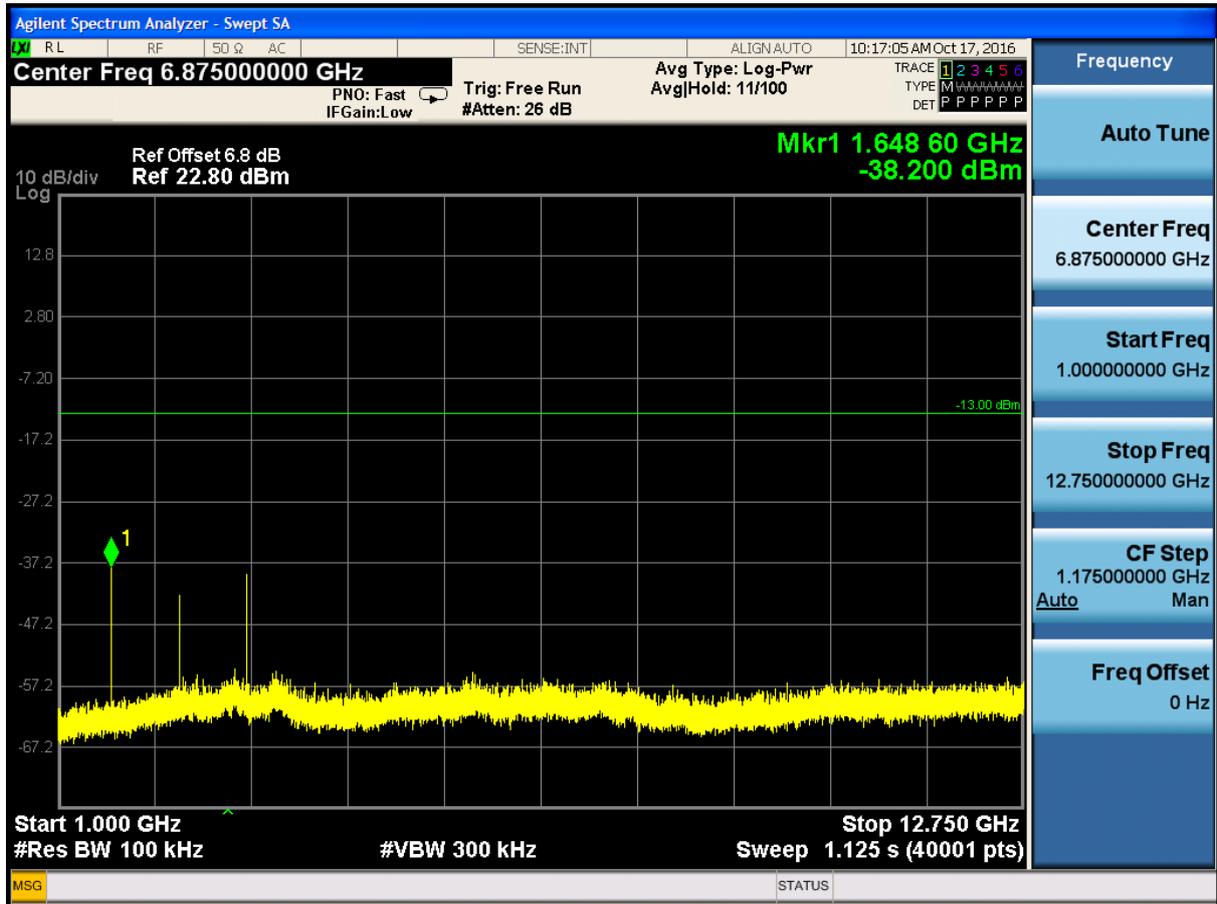


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



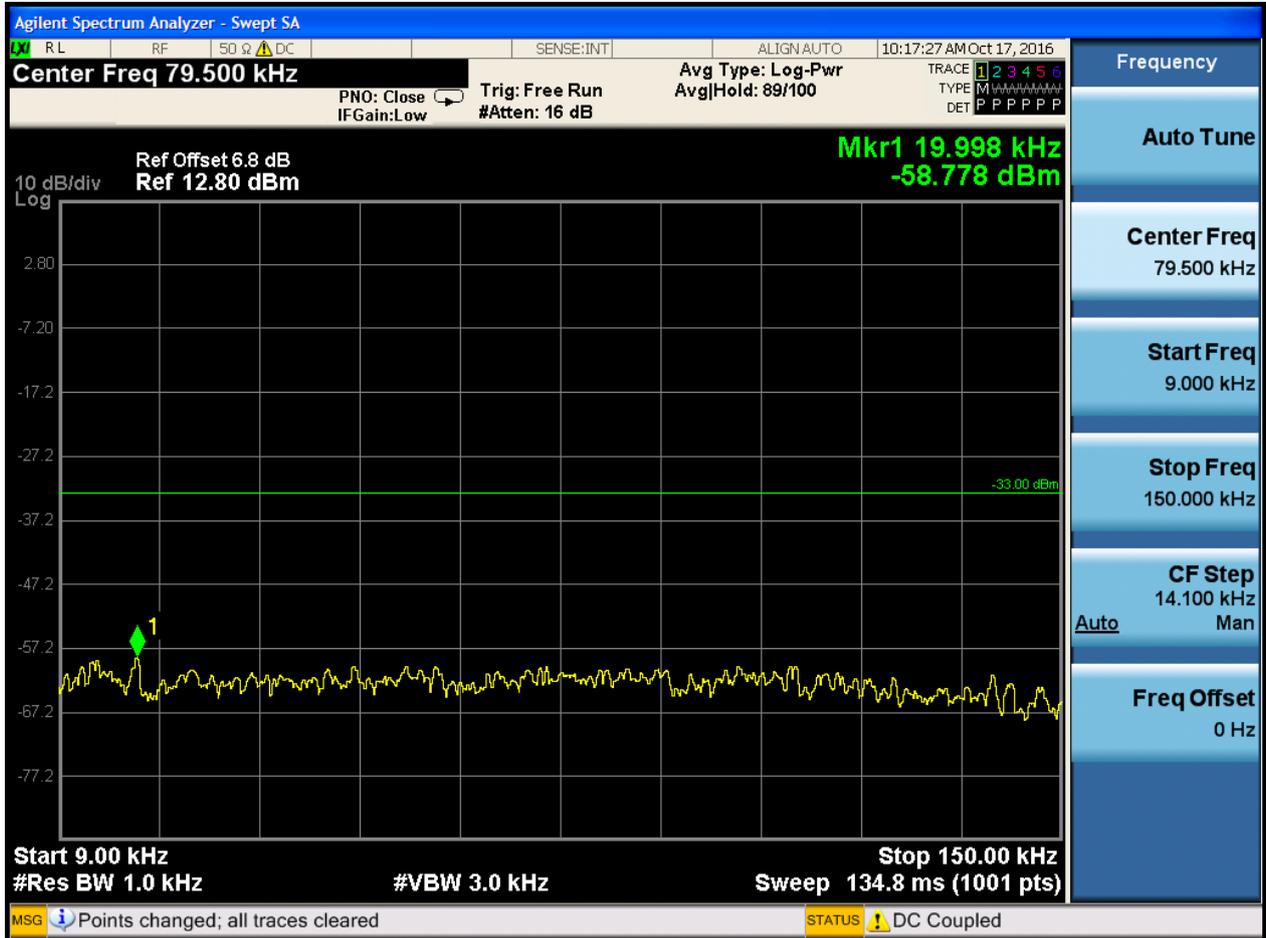


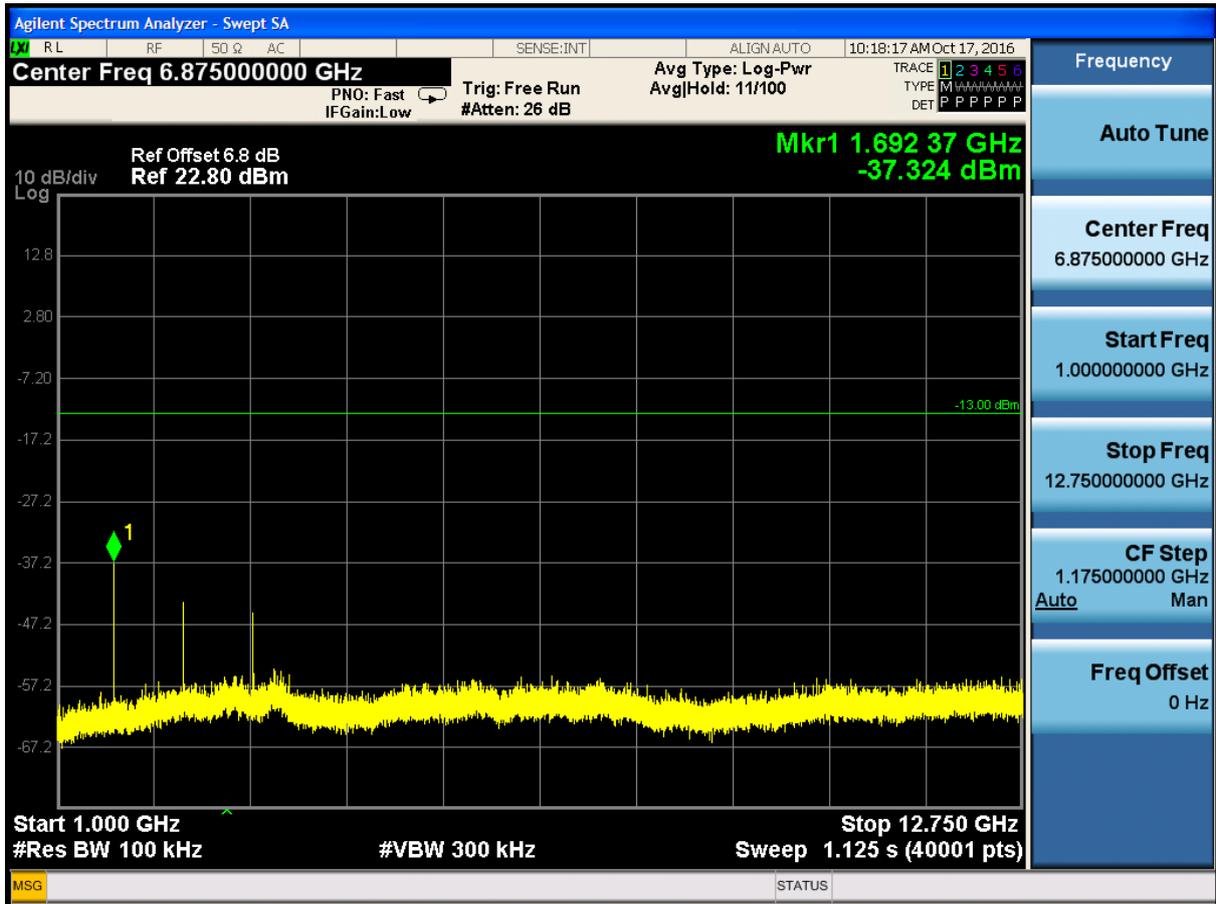




6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



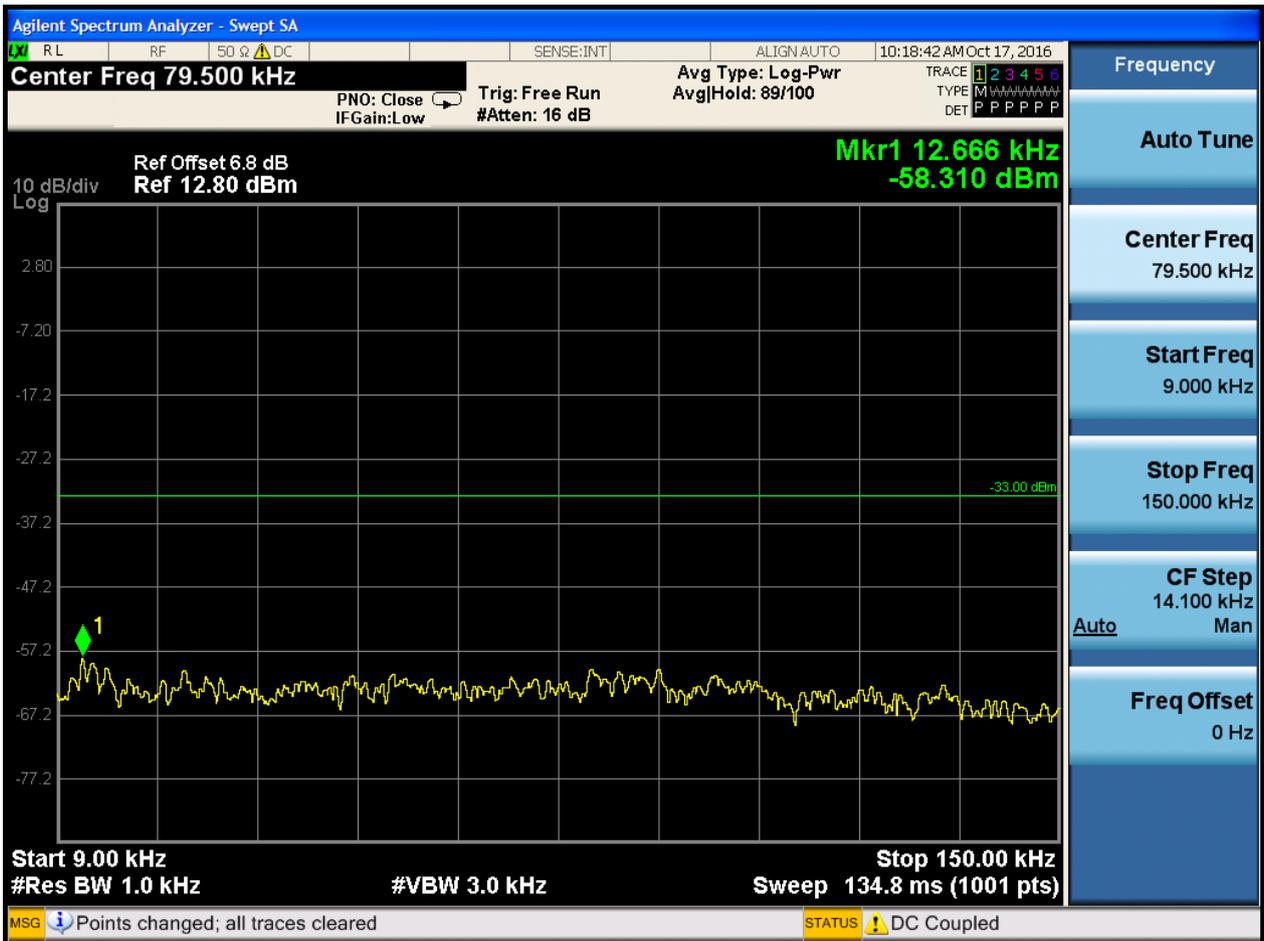




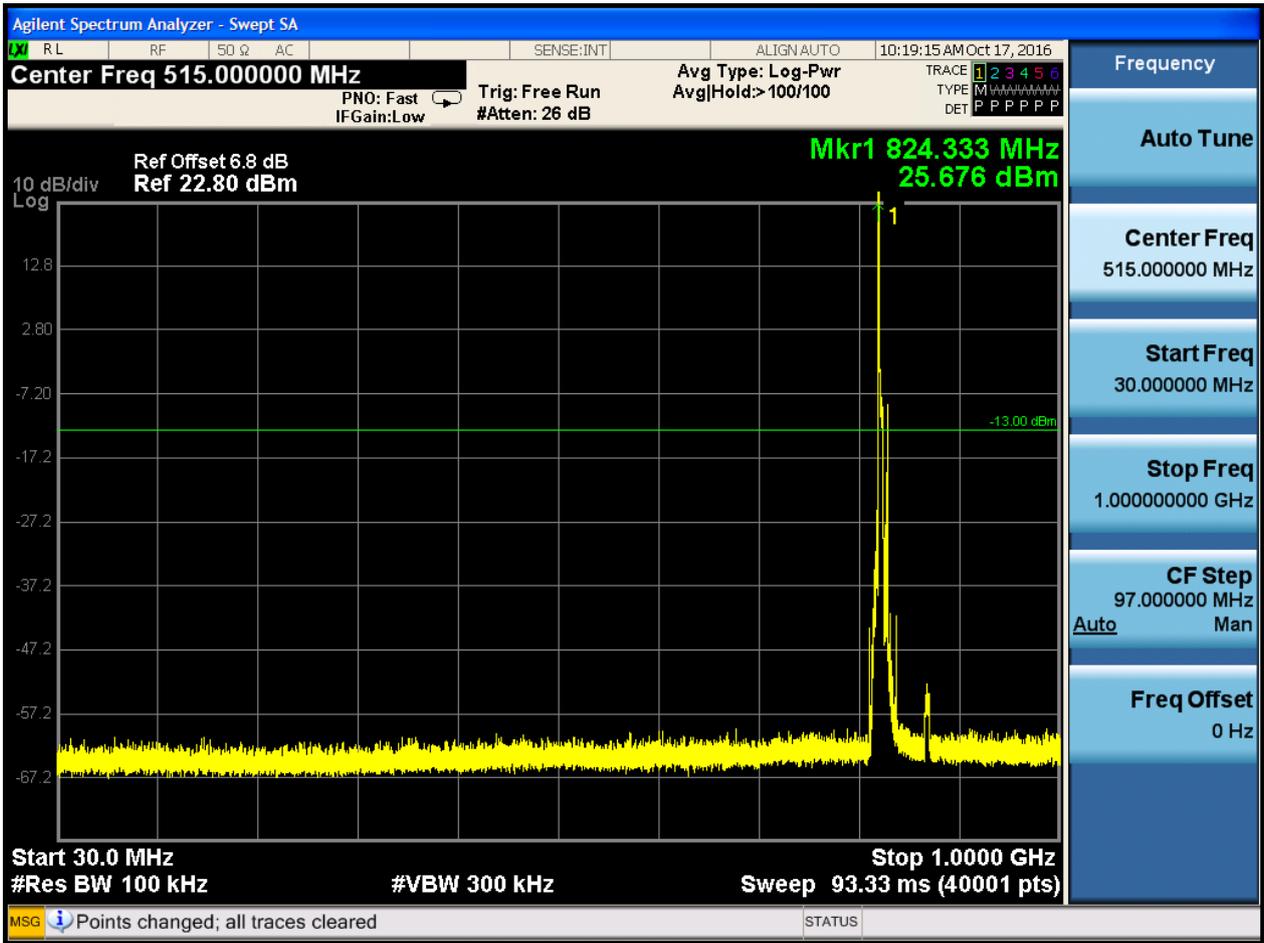
6.1.1.2.3 Test Bandwidth = 5

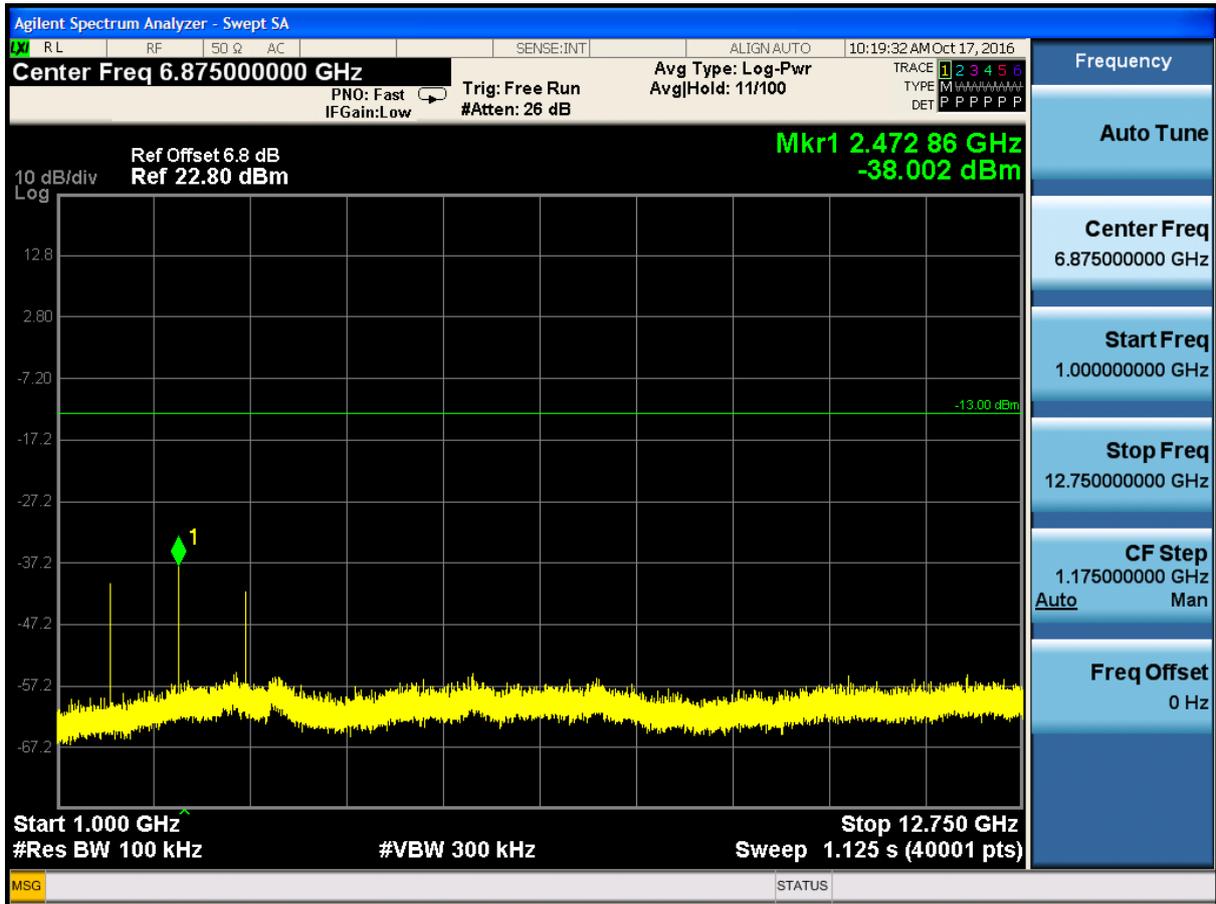
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





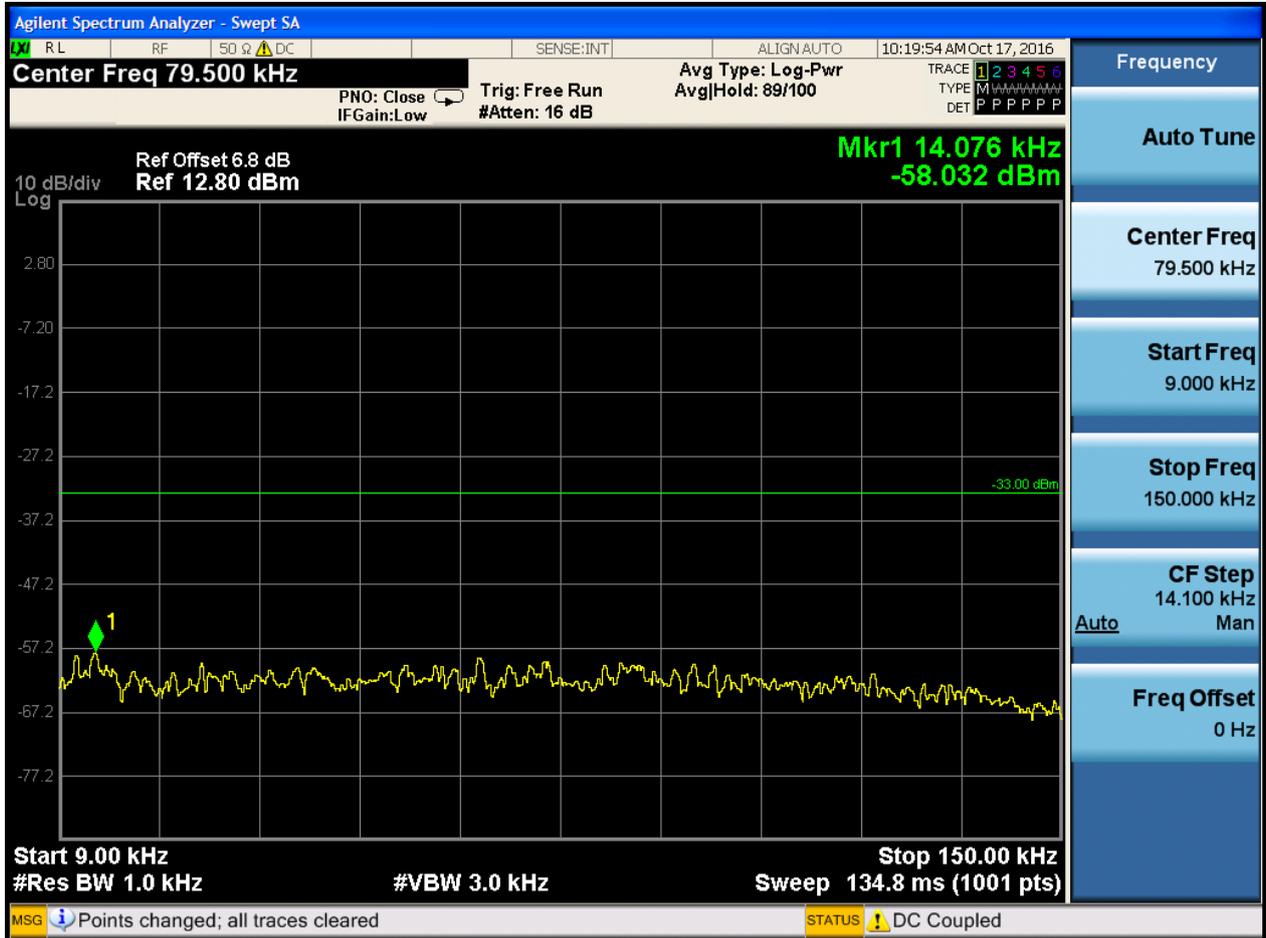


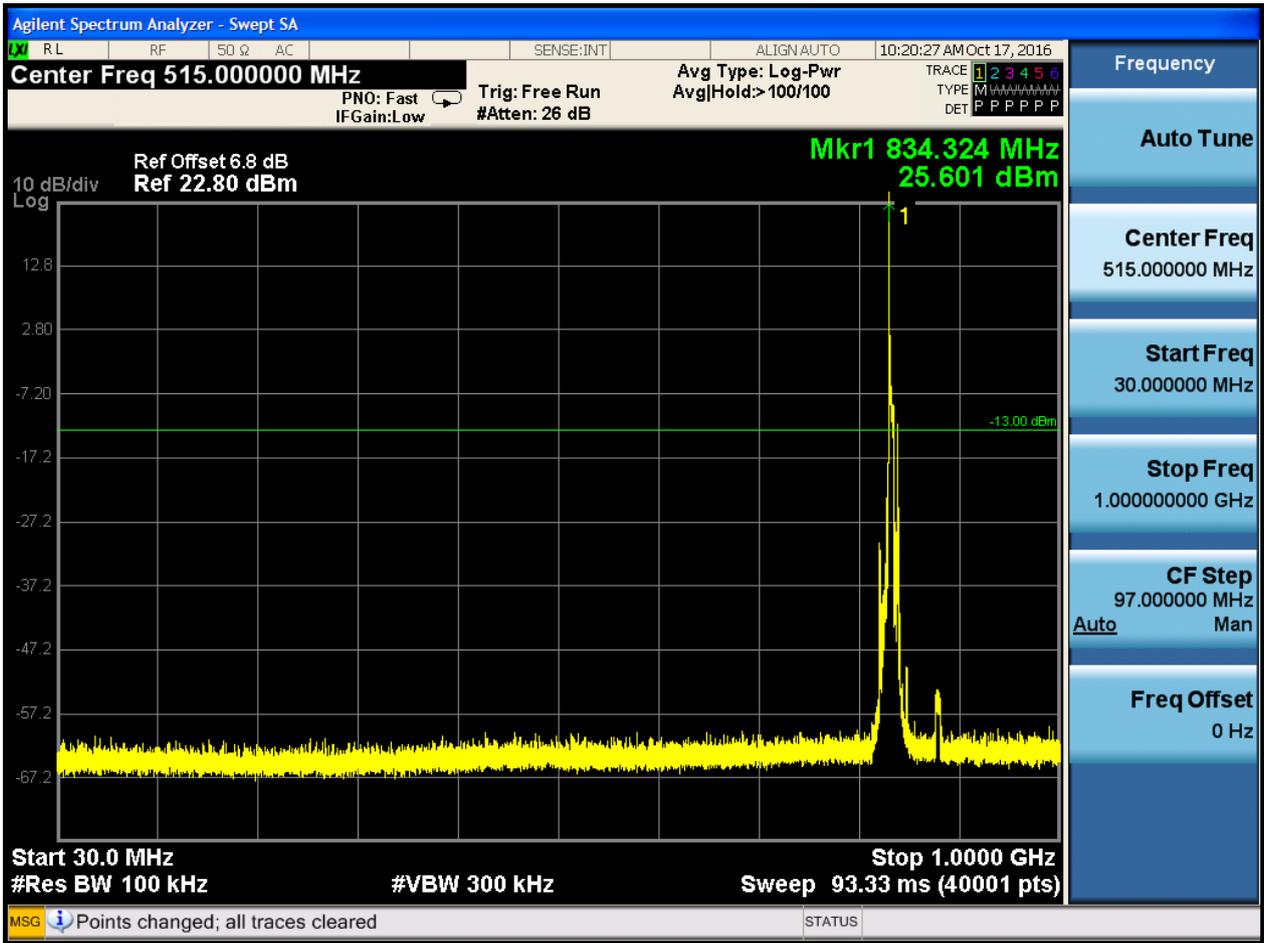


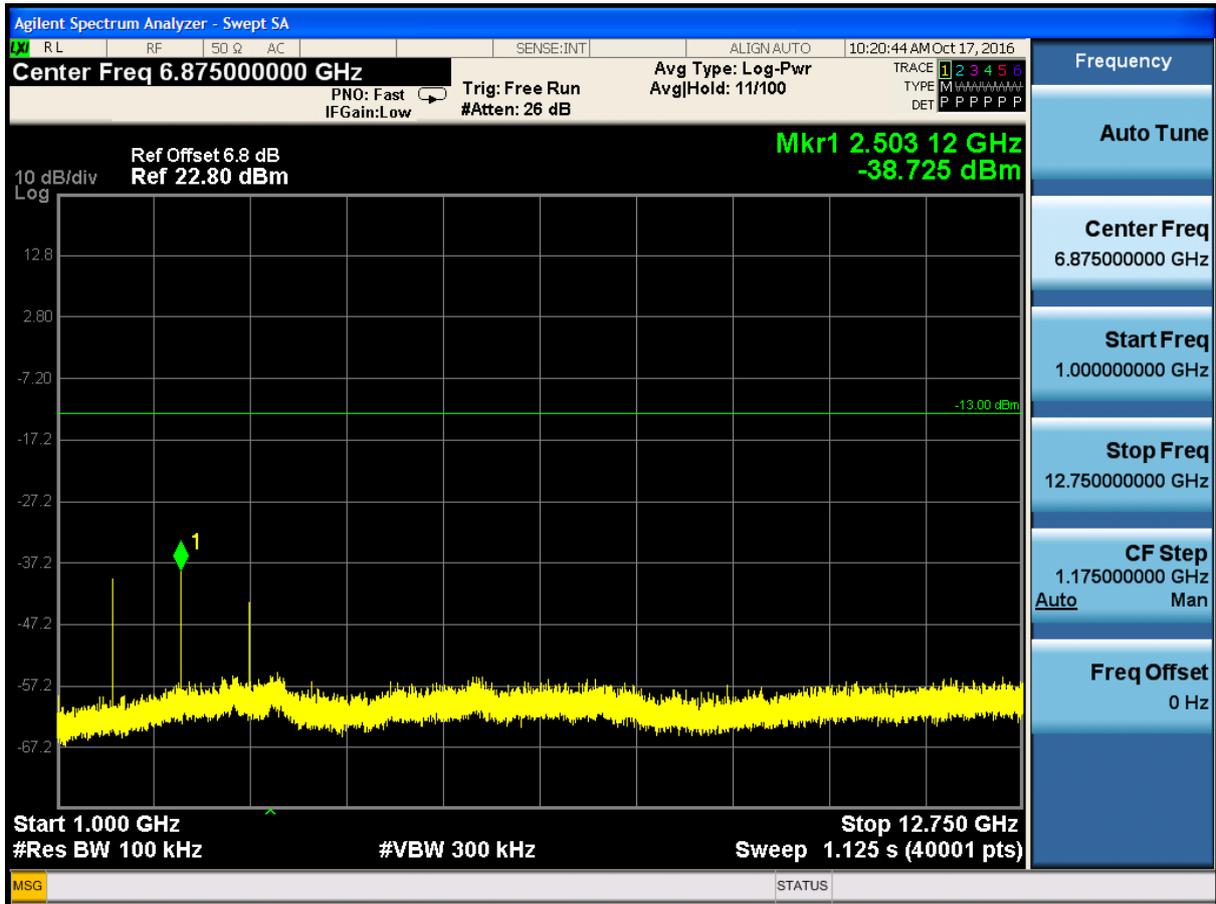


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



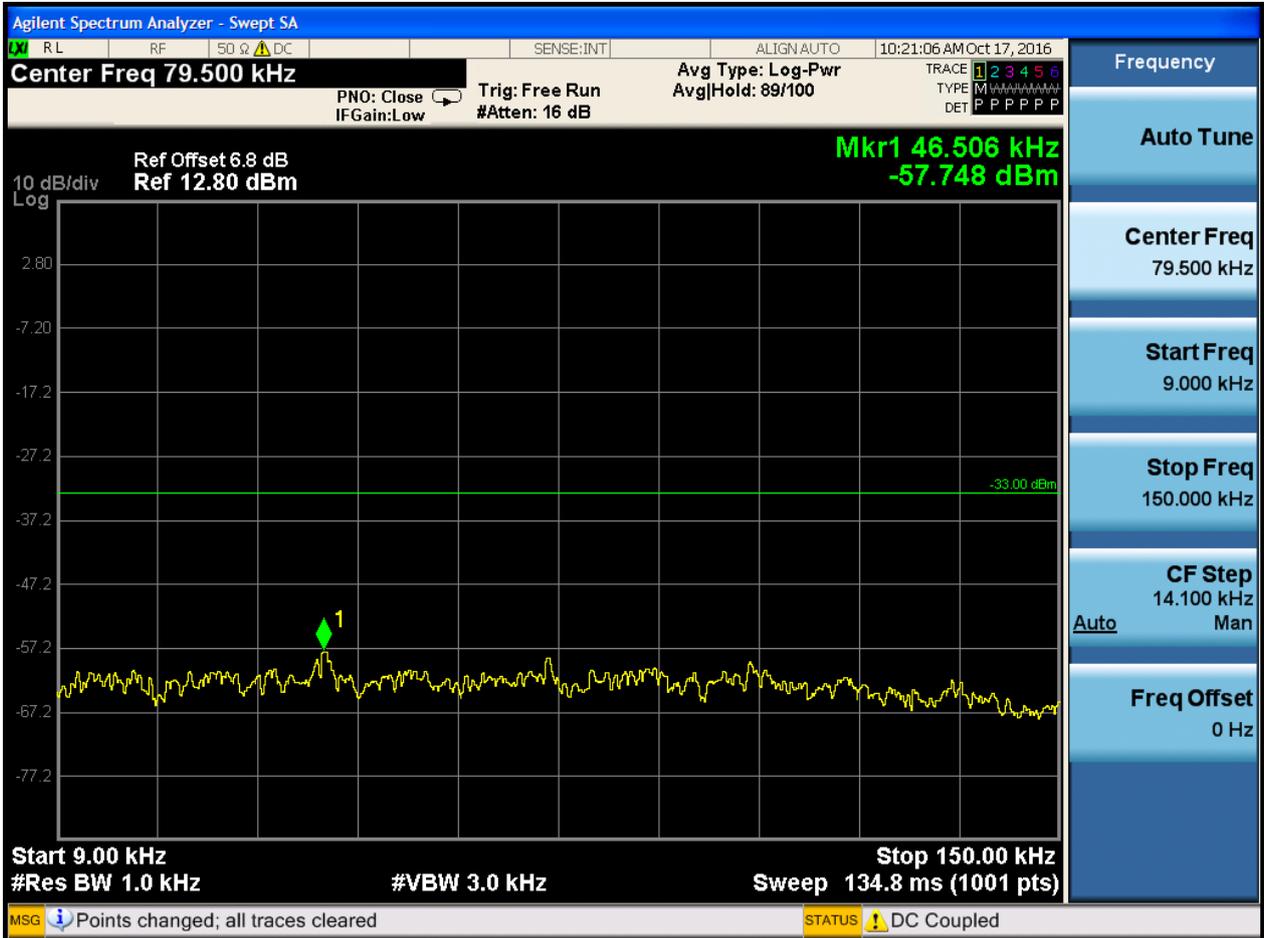


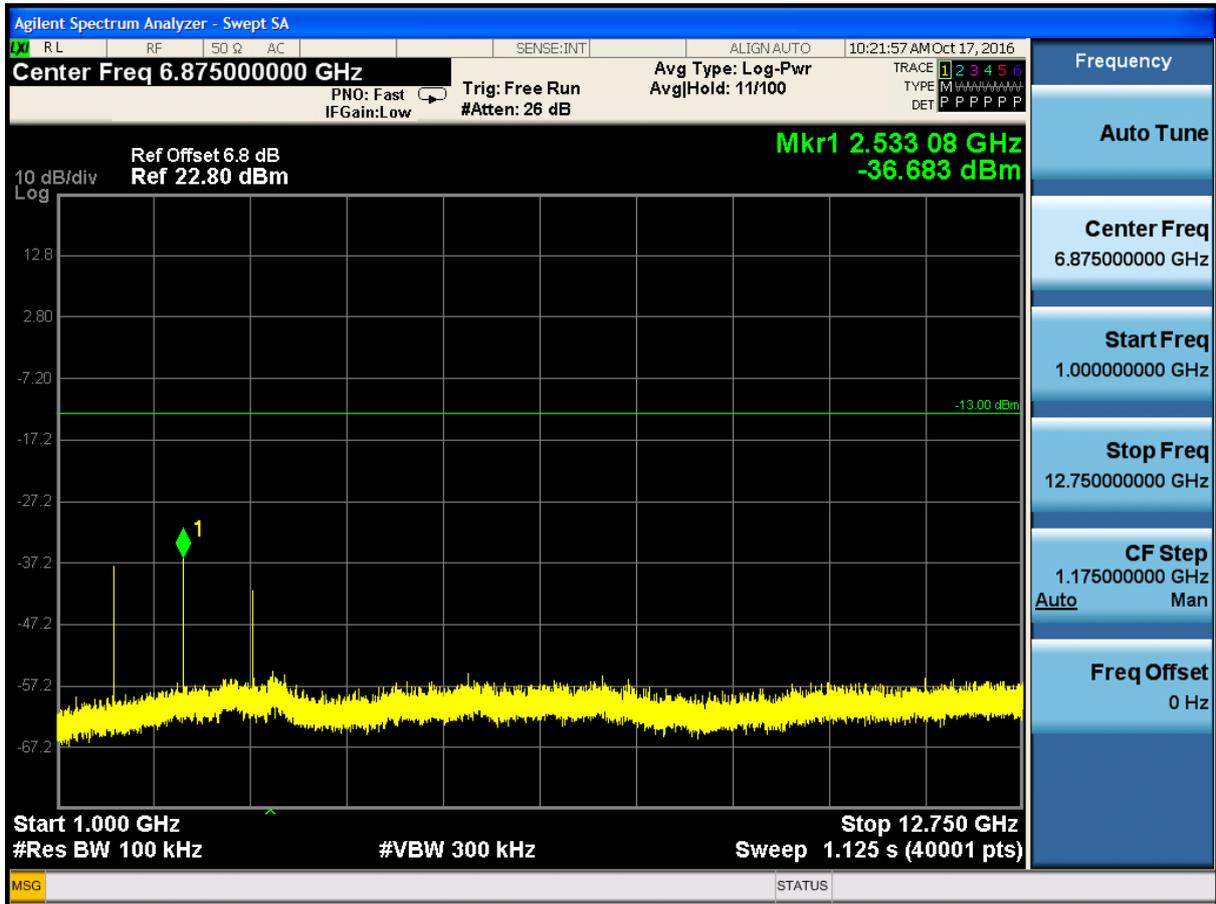




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



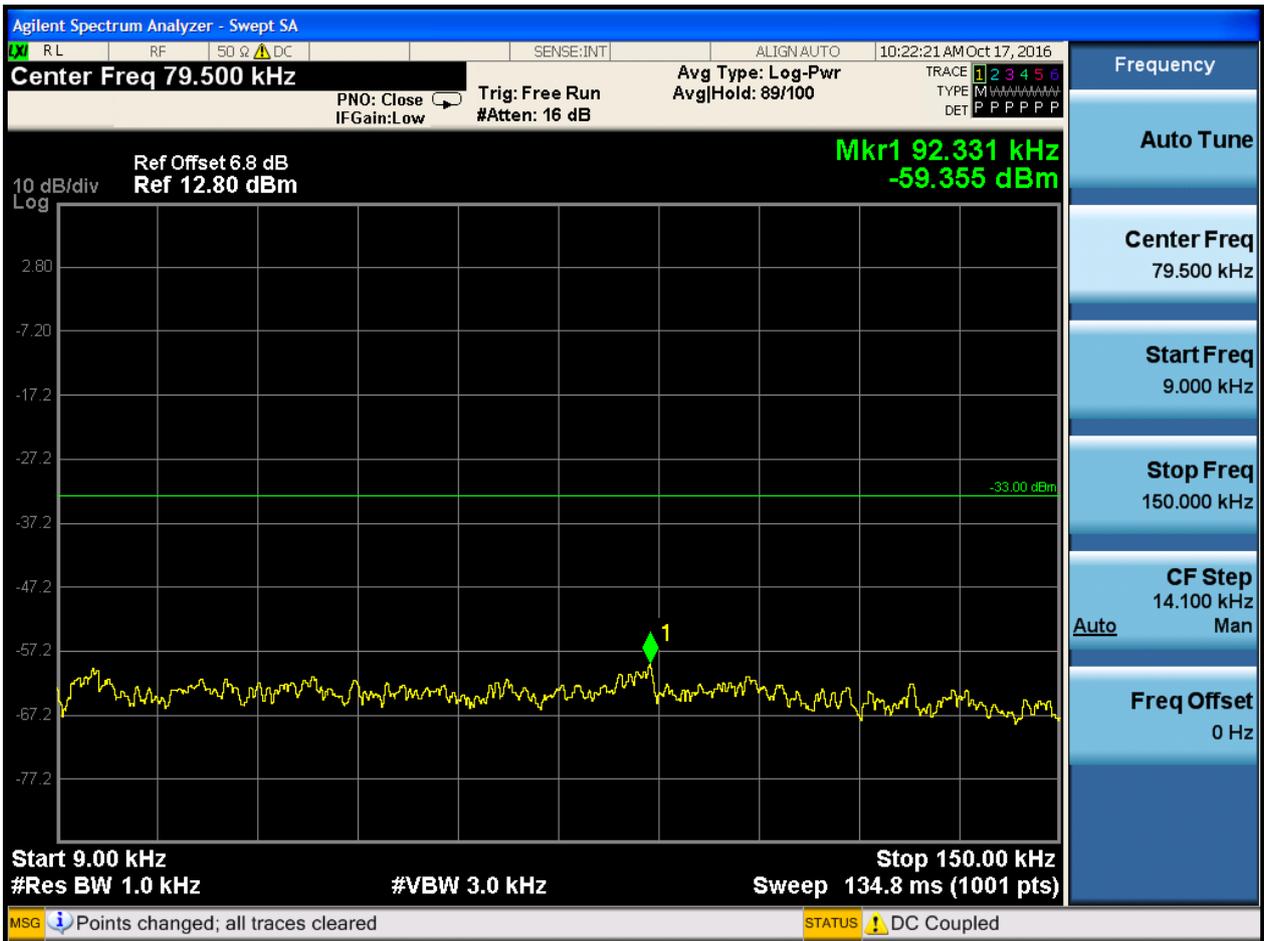


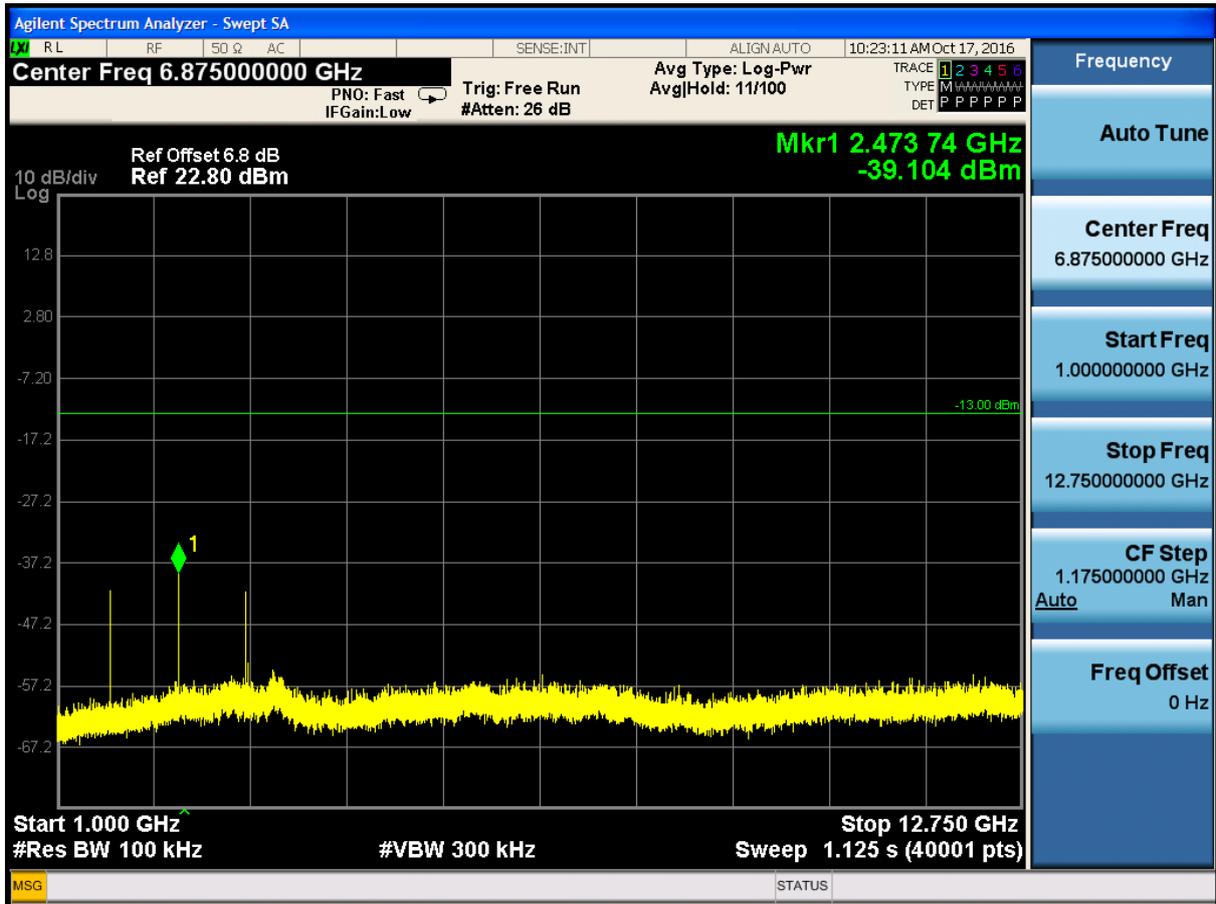


6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

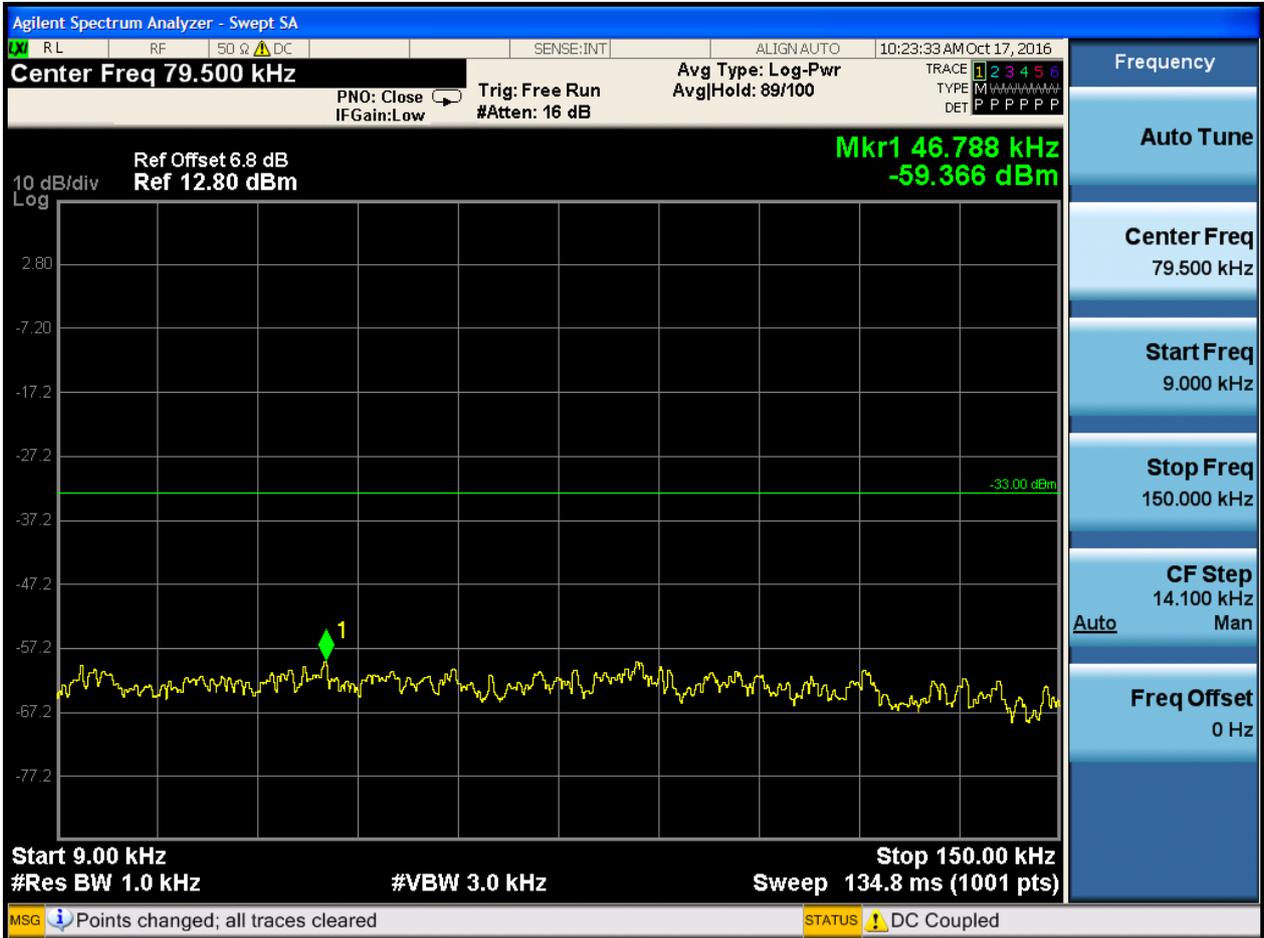


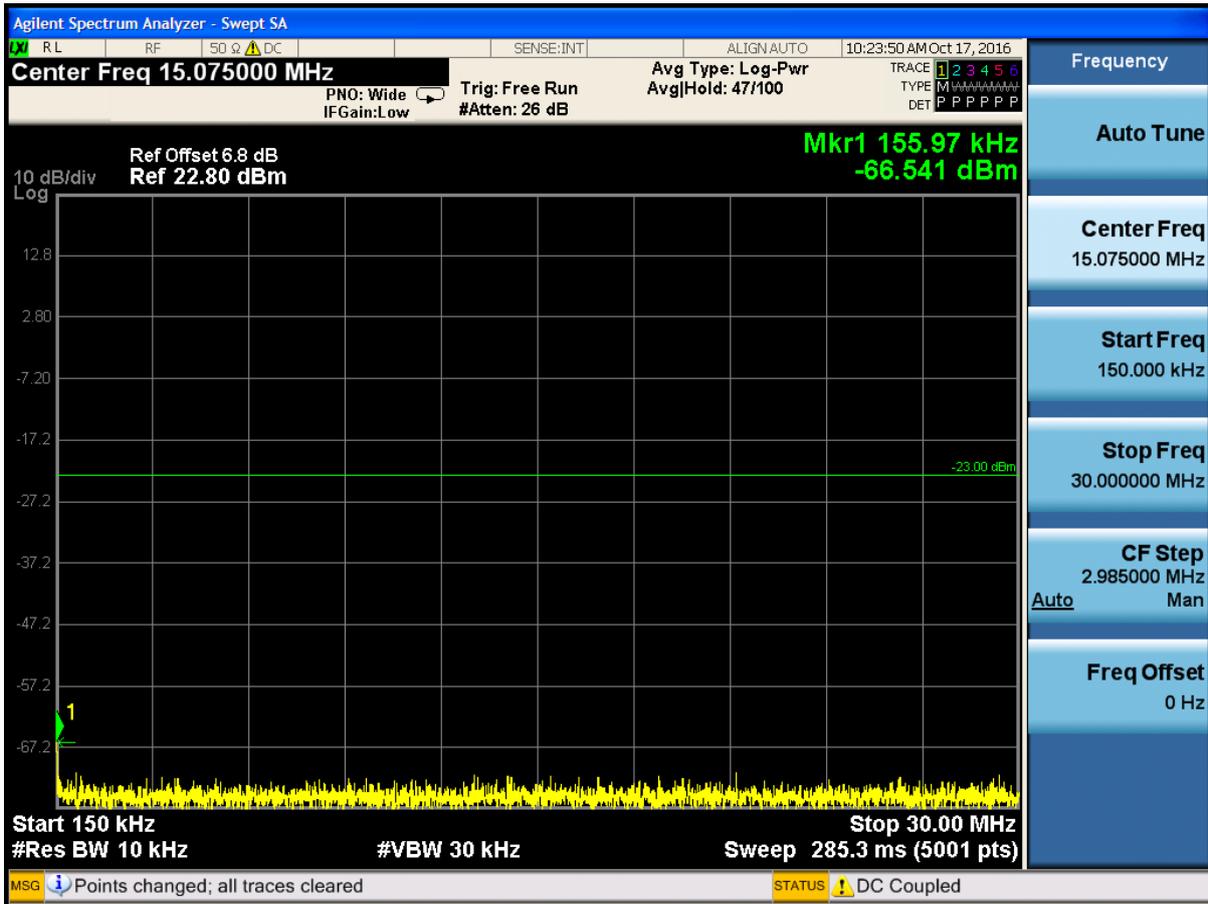


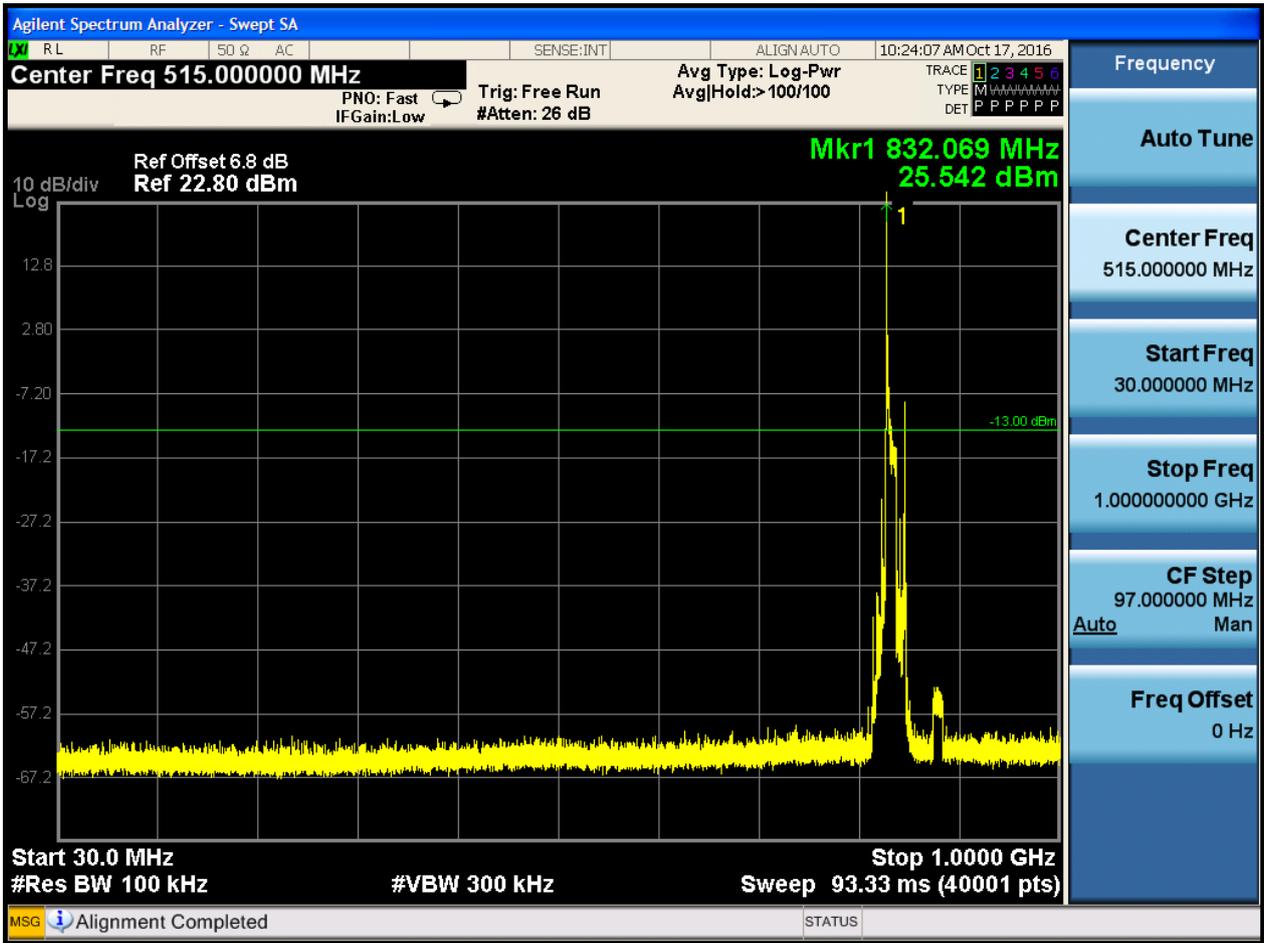


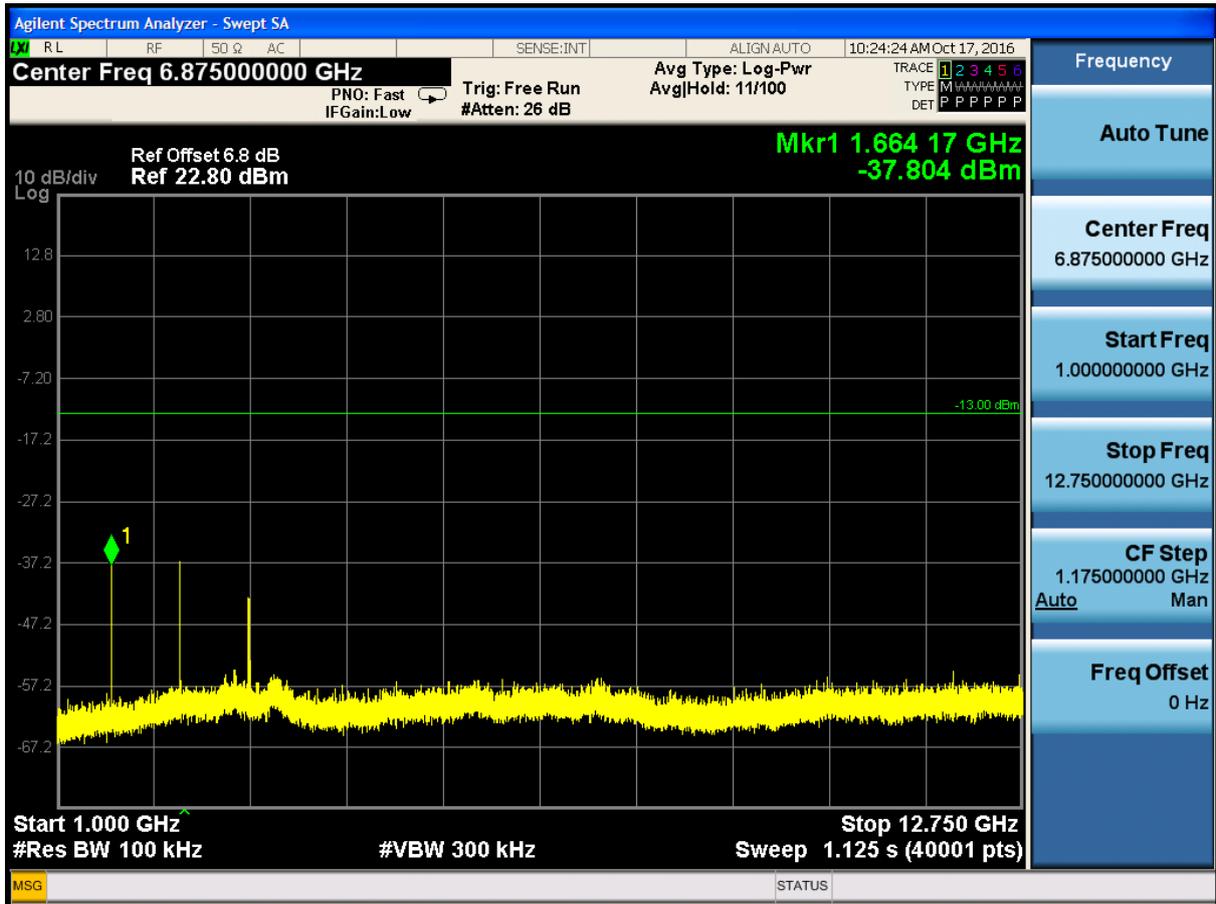
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0





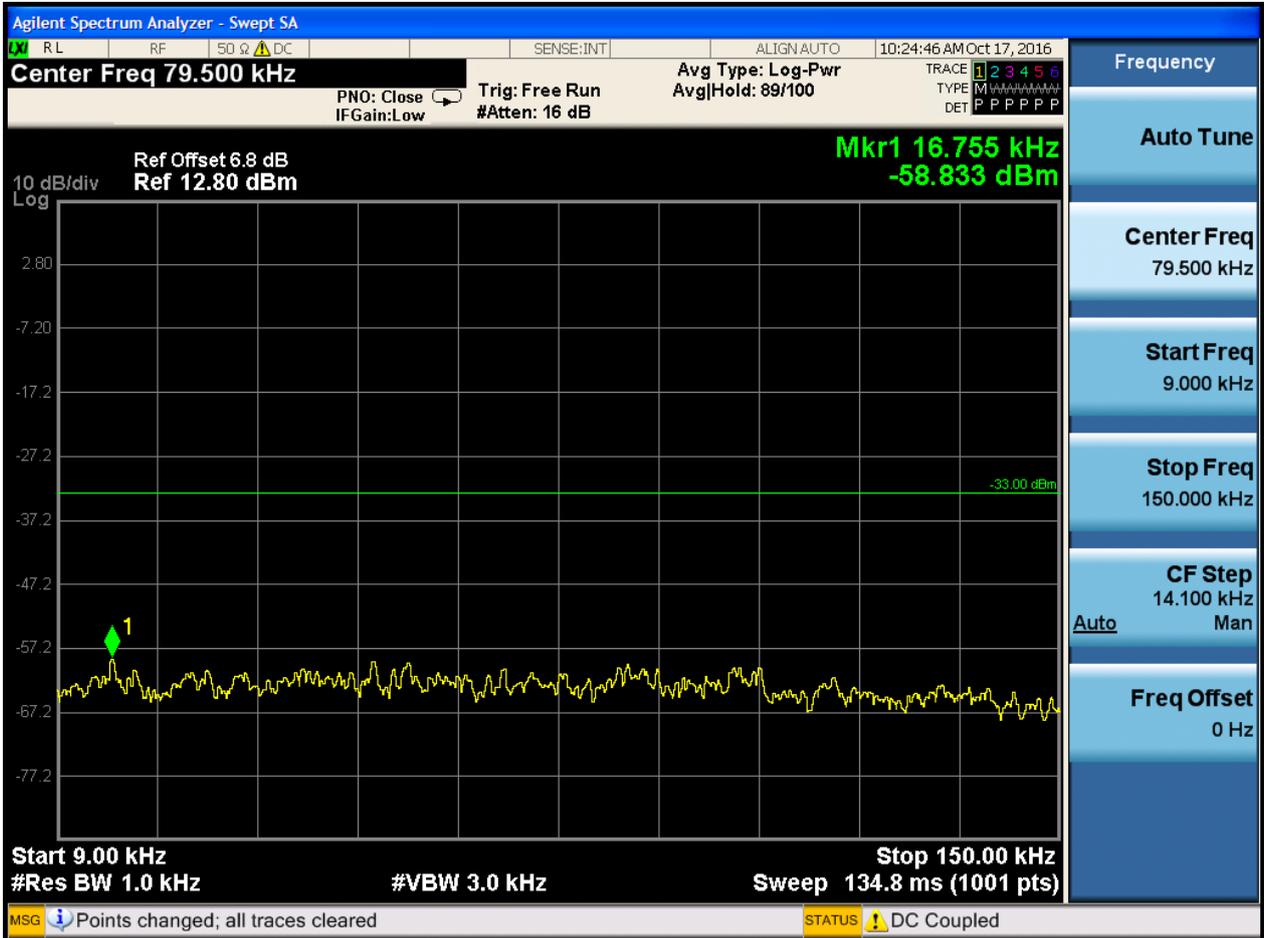


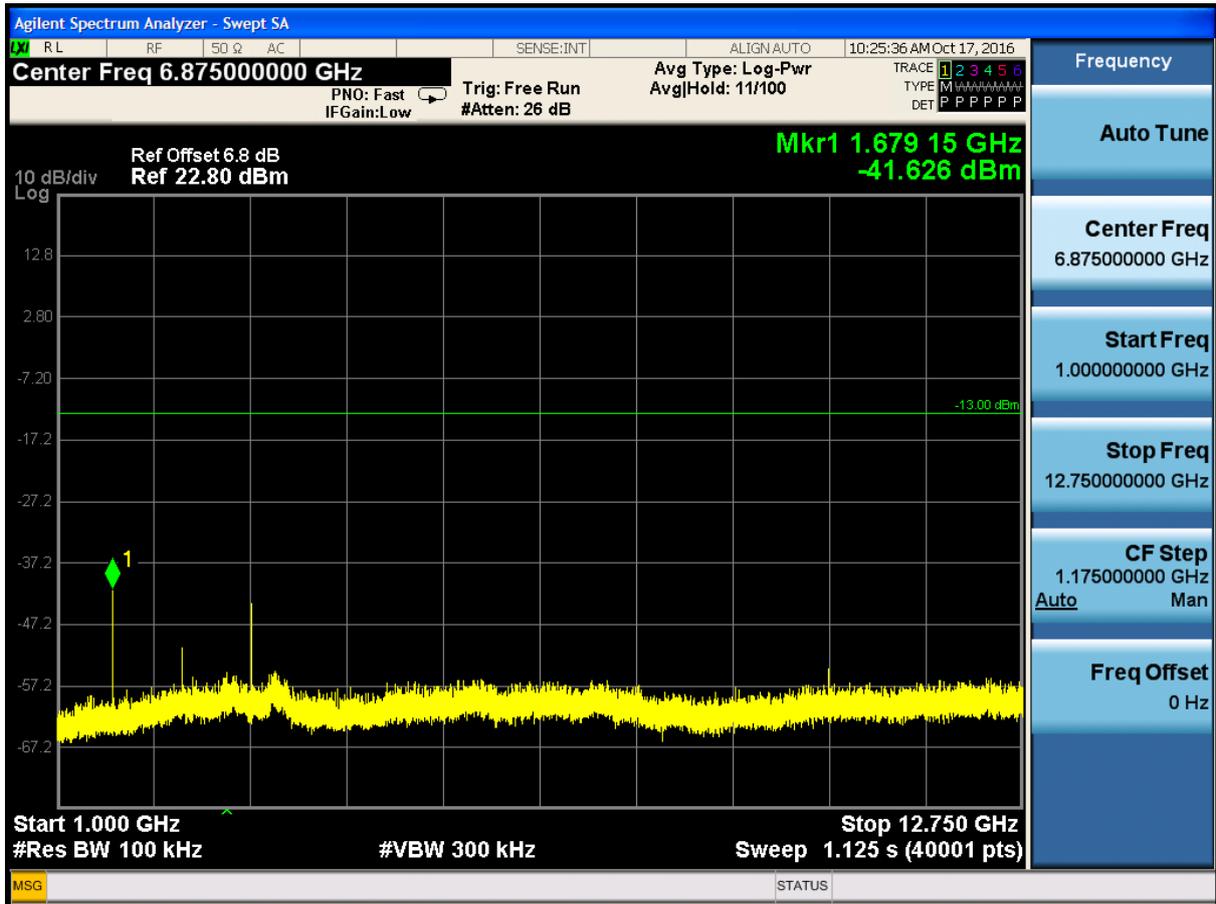




6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0





7Appendix_G: Field Strength of Spurious Radiation

Note: 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

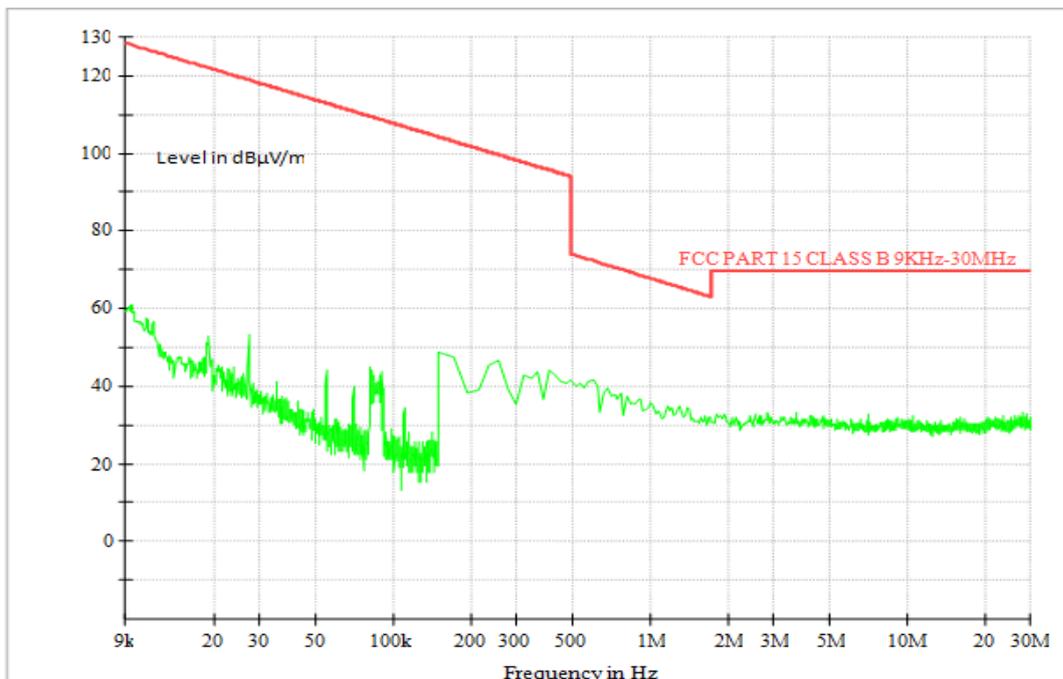
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

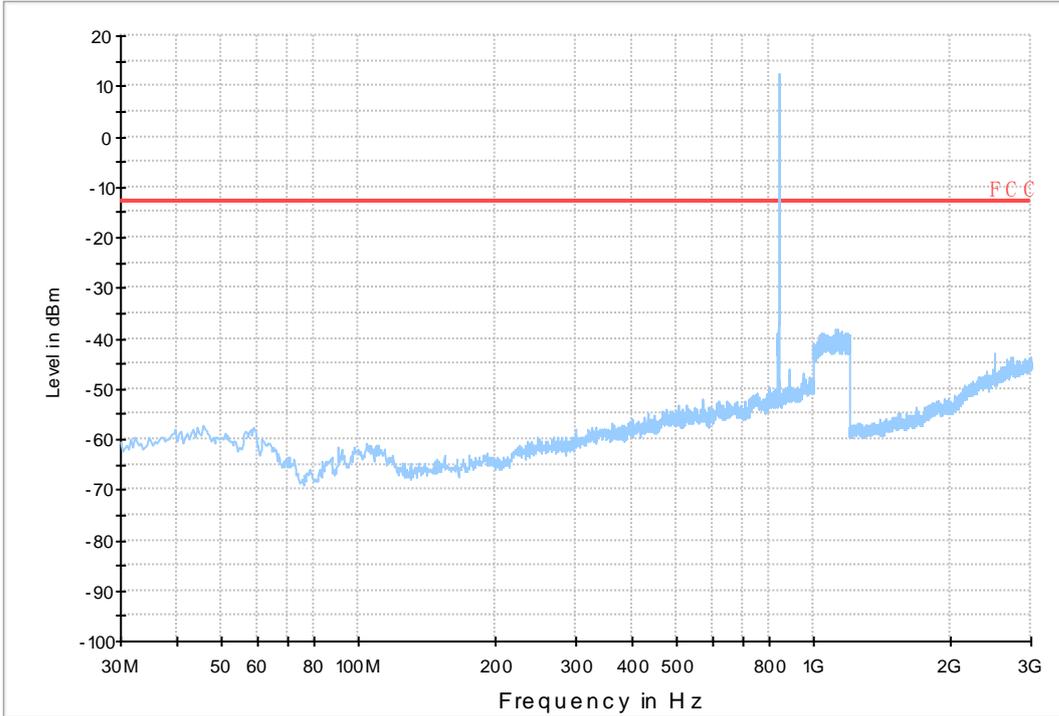
7.1 For LTE

7.1.1 Test Band = BAND5

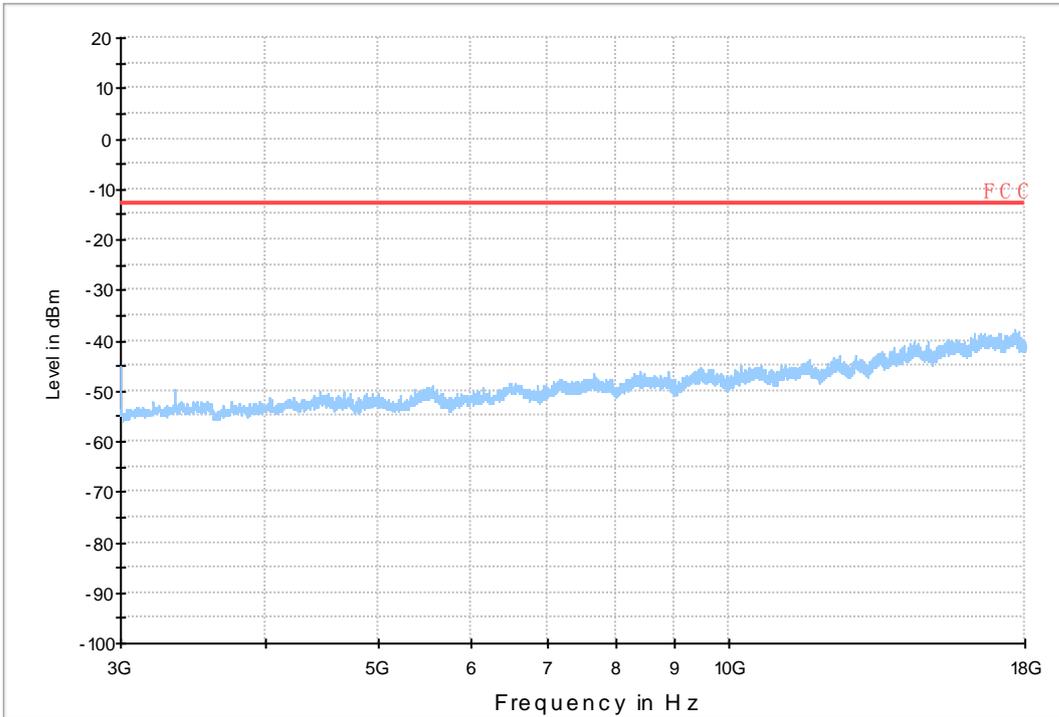
7.1.1.1 Test Bandwidth = 1.4



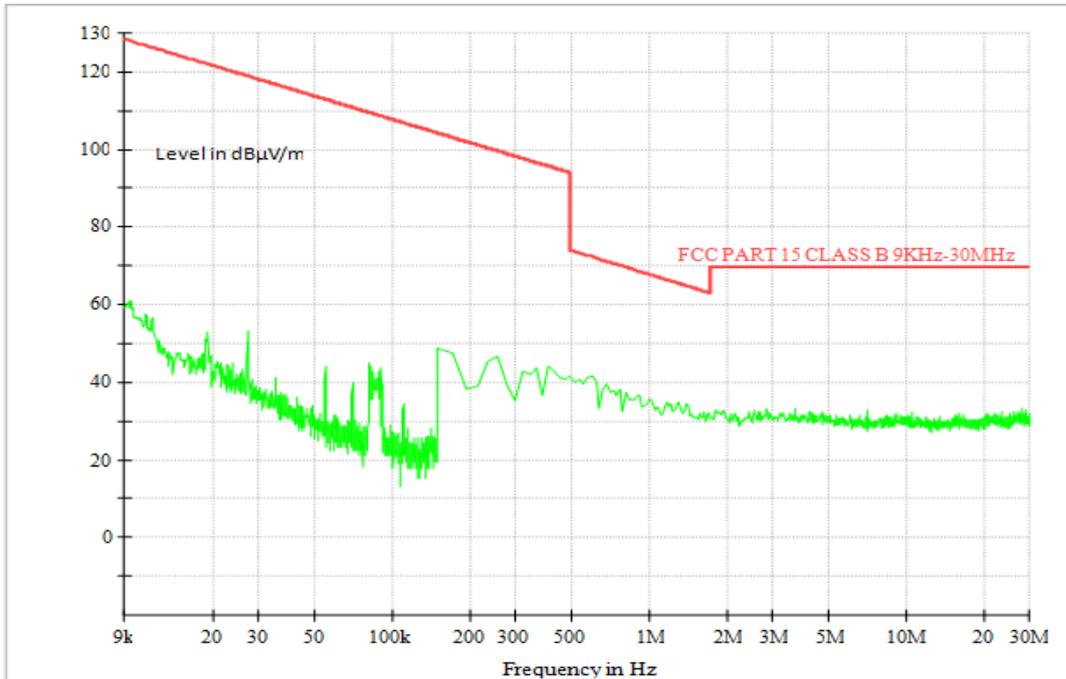
Copy of RSE-TX-DIRECTOR BELOW 1G_L



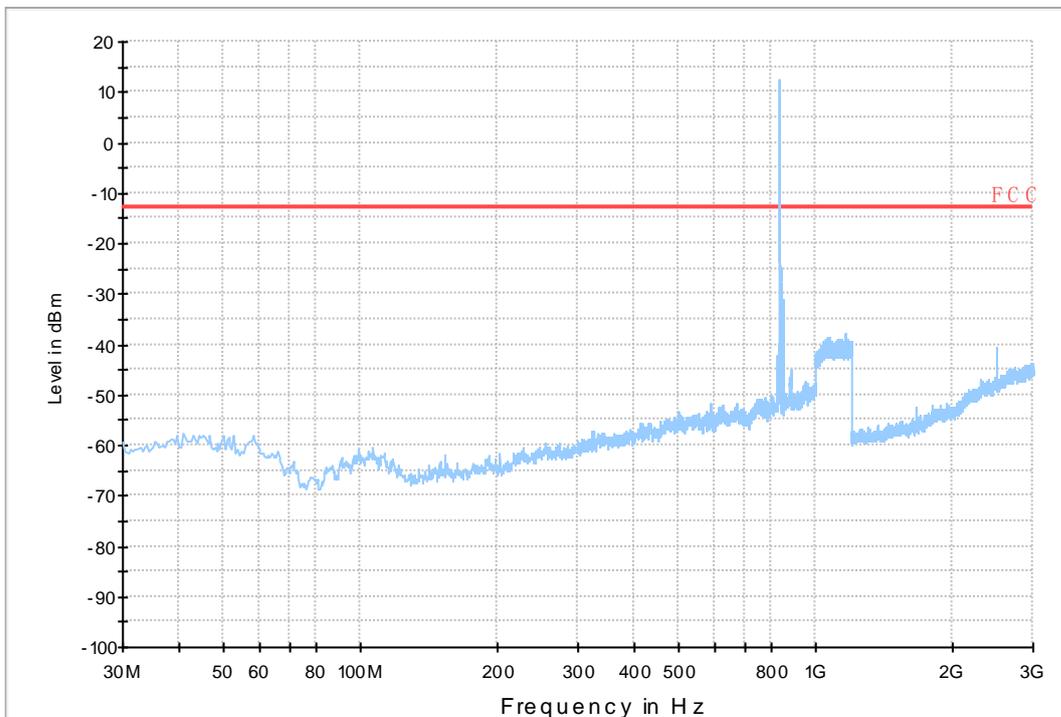
Copy of RSE-TX-DIRECTOR BELOW 1G_H



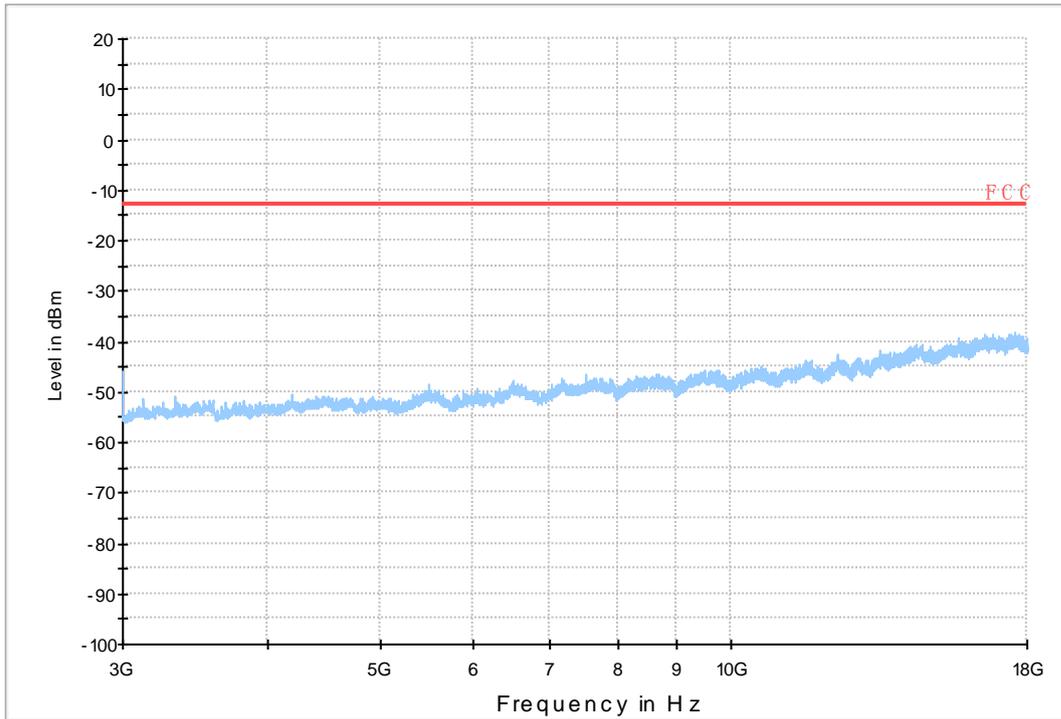
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H





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	-2.36	0.0035	PASS
					VN	0.15	0.0069	PASS
					VH	-3.86	-0.00468	PASS
			MCH	TN	VL	1.99	0.00238	PASS
					VN	-7.74	-0.00925	PASS
					VH	-1.95	-0.00233	PASS
			HCH	TN	VL	12.8	0.01509	PASS
					VN	18.68	0.02202	PASS
					VH	-6.65	-0.00784	PASS
		3	LCH	TN	VL	-7	-0.00848	PASS
					VN	7.17	0.00869	PASS
					VH	9.74	0.0118	PASS
			MCH	TN	VL	3.86	0.00461	PASS
					VN	-1.8	-0.00215	PASS
					VH	-1.76	-0.0021	PASS
			HCH	TN	VL	-28.21	-0.03329	PASS
					VN	-4.92	-0.00581	PASS
					VH	10.24	0.01208	PASS
		5	LCH	TN	VL	1.34	0.00162	PASS
					VN	2.99	0.00362	PASS
					VH	1.29	0.00156	PASS
			MCH	TN	VL	17.38	0.02078	PASS
					VN	-2.45	-0.00293	PASS
					VH	6.95	0.00831	PASS
			HCH	TN	VL	3.03	0.00358	PASS
					VN	4.36	0.00515	PASS
					VH	0.33	0.00039	PASS
		10	LCH	TN	VL	18.22	0.02198	PASS
					VN	20.97	0.0253	PASS
					VH	17.81	0.02148	PASS
MCH	TN		VL	11.42	0.01365	PASS		
			VN	1.99	0.00238	PASS		
			VH	6.18	0.00739	PASS		

LTE/TM2		1.4	HCH	TN	VL	3.2	0.00379	PASS
					VN	1.02	0.00121	PASS
					VH	-5.39	-0.00639	PASS
			LCH	TN	VL	3.6	-0.00591	PASS
					VN	-9.14	-0.01108	PASS
					VH	-0.41	-0.0005	PASS
			MCH	TN	VL	2.98	0.00356	PASS
					VN	2.22	0.00265	PASS
					VH	11.77	0.01407	PASS
		HCH	TN	VL	13.78	0.01624	PASS	
				VN	16.22	0.01912	PASS	
				VH	-2.7	-0.00318	PASS	
		3	LCH	TN	VL	4.63	0.00561	PASS
					VN	-10.57	-0.0128	PASS
					VH	-10.09	-0.01222	PASS
			MCH	TN	VL	5.64	0.00674	PASS
					VN	1.99	0.00238	PASS
					VH	2.69	0.00322	PASS
			HCH	TN	VL	16.61	0.0196	PASS
					VN	-24.98	-0.02947	PASS
					VH	-10.53	-0.01242	PASS
		5	LCH	TN	VL	-2.72	-0.00329	PASS
					VN	5.05	0.00611	PASS
					VH	-2.43	-0.00294	PASS
			MCH	TN	VL	-0.66	-0.00079	PASS
					VN	5.19	0.0062	PASS
					VH	-3.35	-0.004	PASS
			HCH	TN	VL	8.15	0.00963	PASS
					VN	9.43	0.01114	PASS
					VH	8.17	0.00965	PASS
		10	LCH	TN	VL	13.4	0.01616	PASS
					VN	11.77	0.0142	PASS
					VH	-5.51	-0.00665	PASS
			MCH	TN	VL	-12.39	-0.01481	PASS
					VN	-2.79	-0.00334	PASS
					VH	-3.1	-0.00371	PASS
			HCH	TN	VL	-3.39	-0.00402	PASS
					VN	-2.78	-0.00329	PASS
					VH	-4.61	-0.00546	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	1.11	0.00437	PASS
					-20	0.68	0.00385	PASS
					-10	0.41	0.00352	PASS
					0	0.54	0.00368	PASS
					10	0.7	0.00387	PASS
					20	-0.28	0.00268	PASS
					30	0.28	0.00336	PASS
					40	0.24	0.00332	PASS
			50	0.41	0.00352	PASS		
			MCH	VN	-30	-0.09	0.00292	PASS
					-20	0.21	0.00327	PASS
					-10	0.04	0.00307	PASS
					0	0.61	0.00375	PASS
					10	0.61	0.00375	PASS
					20	0.37	0.00347	PASS
					30	0.74	0.00391	PASS
					40	-0.22	0.00276	PASS
			50	0.24	0.00331	PASS		
			HCH	VN	-30	-0.53	0.0024	PASS
					-20	-1.74	0.00097	PASS
					-10	-1.21	0.0016	PASS
					0	-1.44	0.00133	PASS
					10	-2.02	0.00064	PASS
					20	0.02	0.00305	PASS
		30			0.19	0.00325	PASS	
		40			0.71	0.00386	PASS	
		50	0.25	0.00332	PASS			
		3	LCH	VN	-30	-0.42	0.00252	PASS
					-20	-2.65	-0.00019	PASS
					-10	5.52	0.00971	PASS
					0	-0.11	0.00289	PASS
					10	7.12	0.01165	PASS
20	0.18				0.00324	PASS		
30	-7.3				-0.00582	PASS		
40	0.75				0.00393	PASS		
50	0.51				0.00364	PASS		
MCH	VN				-30	2.51	0.00602	PASS
		-20	2.08	0.00551	PASS			

					-10	1.27	0.00454	PASS	
					0	-2.27	0.00031	PASS	
					10	6.62	0.01094	PASS	
					20	5.17	0.0092	PASS	
					30	-1.82	0.00085	PASS	
					40	1.25	0.00452	PASS	
					50	5.03	0.00904	PASS	
			HCH	VN	-30	5.56	0.00958	PASS	
					-20	2.91	0.00646	PASS	
					-10	-5.08	-0.00297	PASS	
					0	-5.33	-0.00327	PASS	
					10	-3.64	-0.00127	PASS	
					20	7.35	0.0117	PASS	
					30	5.12	0.00906	PASS	
		LCH	VN	40	-1.78	0.00092	PASS		
				50	-1.56	0.00118	PASS		
				-30	-3.97	-0.00178	PASS		
				-20	-10.79	-0.01003	PASS		
				-10	-0.61	0.00229	PASS		
				0	2	0.00544	PASS		
				10	3.97	0.00783	PASS		
				20	-2.95	-0.00055	PASS		
				30	-0.95	0.00187	PASS		
				40	0.95	0.00417	PASS		
				50	3	0.00665	PASS		
				MCH	VN	-30	-1.79	0.00088	PASS
						-20	-1.58	0.00114	PASS
						-10	-2.14	0.00047	PASS
		0	-1.61			0.0011	PASS		
		10	-3.34			-0.00097	PASS		
		20	-1.38			0.00137	PASS		
		30	-1.06			0.00176	PASS		
		40	-3.07			-0.00065	PASS		
		HCH	VN	50	-0.49	0.00244	PASS		
				-30	-10.36	-0.00922	PASS		
				-20	8.98	0.01363	PASS		
				-10	3.01	0.00658	PASS		
				0	-5.54	-0.00352	PASS		
				10	-0.43	0.00252	PASS		
				20	-8.23	-0.0067	PASS		
30	-10.46	-0.00933	PASS						

		10	LCH	VN	40	5.2	0.00917	PASS
					50	0.55	0.00367	PASS
					-30	-3.38	-0.00105	PASS
					-20	12.64	0.01827	PASS
					-10	9.81	0.01486	PASS
					0	-20.15	-0.02128	PASS
					10	-23.98	-0.0259	PASS
					20	-16.81	-0.01725	PASS
					30	-0.68	0.0022	PASS
					40	13.93	0.01983	PASS
			50	-23.22	-0.02499	PASS		
			-30	-32.48	-0.0358	PASS		
			-20	28.59	0.0372	PASS		
			-10	3.57	0.00729	PASS		
			0	-21.13	-0.02224	PASS		
			10	2.41	0.0059	PASS		
			20	4.7	0.00864	PASS		
			30	-9.15	-0.00791	PASS		
			40	-17.83	-0.01829	PASS		
			50	-23.95	-0.02561	PASS		
	-30	-6.86	-0.0051	PASS				
	-20	4.56	0.00843	PASS				
	-10	-3.51	-0.00114	PASS				
	0	-9.4	-0.00811	PASS				
	10	1.08	0.0043	PASS				
	20	1.93	0.00531	PASS				
	30	2.3	0.00575	PASS				
	40	-0.86	0.002	PASS				
	50	-6.54	-0.00473	PASS				
	LTE/TM2	1.4	LCH	VN	-30	0.29	0.00338	PASS
					-20	0.17	0.00323	PASS
					-10	-0.36	0.00259	PASS
0					0.29	0.00338	PASS	
10					-0.19	0.00279	PASS	
20					0.44	0.00356	PASS	
30					0.17	0.00323	PASS	
40					-0.81	0.00204	PASS	
50					0.81	0.00401	PASS	
MCH					VN	-30	-1.81	0.00086
-20			-0.95	0.00189		PASS		
-10			-0.23	0.00275		PASS		



					0	-0.43	0.00251	PASS
					10	-2.15	0.00045	PASS
					20	-0.66	0.00223	PASS
					30	1.11	0.00435	PASS
					40	-0.36	0.00259	PASS
					50	0.38	0.00348	PASS
			HCH	VN	-30	0.28	0.00335	PASS
			HCH	VN	-20	-0.16	0.00283	PASS
			HCH	VN	-10	-0.81	0.00207	PASS
			HCH	VN	0	-1.02	0.00182	PASS
			HCH	VN	10	-1.32	0.00147	PASS
			HCH	VN	20	0.72	0.00387	PASS
			HCH	VN	30	0.47	0.00358	PASS
			HCH	VN	40	-1.45	0.00131	PASS
			HCH	VN	50	-0.42	0.00253	PASS
			LCH	VN	-30	-0.19	0.00279	PASS
			LCH	VN	-20	-2.39	0.00013	PASS
			LCH	VN	-10	0.68	0.00385	PASS
			LCH	VN	0	4.17	0.00808	PASS
			LCH	VN	10	-0.35	0.0026	PASS
			LCH	VN	20	3.73	0.00754	PASS
			LCH	VN	30	-3.83	-0.00162	PASS
			LCH	VN	40	15.92	0.02231	PASS
			LCH	VN	50	-1.16	0.00162	PASS
			MCH	VN	-30	-4.84	-0.00276	PASS
			MCH	VN	-20	2.11	0.00555	PASS
			MCH	VN	-10	3.6	0.00733	PASS
			MCH	VN	0	-4.38	-0.00221	PASS
			MCH	VN	10	8.18	0.0128	PASS
			MCH	VN	20	3.26	0.00692	PASS
			MCH	VN	30	0.17	0.00323	PASS
			MCH	VN	40	-9.02	-0.00776	PASS
			MCH	VN	50	7.29	0.01174	PASS
		3	HCH	VN	-30	2.78	0.0063	PASS
		3	HCH	VN	-20	0.64	0.00378	PASS
		3	HCH	VN	-10	0.14	0.00319	PASS
		3	HCH	VN	0	-2.75	-0.00022	PASS
		3	HCH	VN	10	-11.96	-0.01109	PASS
		3	HCH	VN	20	-6.16	-0.00424	PASS
		3	HCH	VN	30	-3.28	-0.00085	PASS
		3	HCH	VN	40	-0.33	0.00263	PASS

				50	-12.32	-0.01151	PASS
				-30	8.71	0.01356	PASS
				-20	14.23	0.02024	PASS
				-10	0.71	0.00388	PASS
				0	0.44	0.00356	PASS
			LCH	10	-0.65	0.00224	PASS
				20	-0.09	0.00292	PASS
				30	-0.82	0.00203	PASS
				40	-3.14	-0.00077	PASS
				50	0.9	0.00411	PASS
				-30	-2.91	-0.00045	PASS
				-20	-2.04	0.00059	PASS
				-10	-1.35	0.00141	PASS
				0	-2.58	-6E-05	PASS
			MCH	10	2.5	0.00601	PASS
				20	-2.64	-0.00013	PASS
				30	-2.24	0.00035	PASS
				40	1.2	0.00446	PASS
				50	3.97	0.00777	PASS
				-30	0.72	0.00387	PASS
				-20	-3.57	-0.00119	PASS
				-10	0.55	0.00367	PASS
				0	-2.08	0.00057	PASS
			HCH	10	2.31	0.00575	PASS
				20	-0.74	0.00215	PASS
				30	1.45	0.00474	PASS
				40	-2.47	0.00011	PASS
				50	-2.21	0.00041	PASS
				-30	-1.78	0.00088	PASS
				-20	-5.74	-0.0039	PASS
				-10	0.61	0.00376	PASS
				0	-1.74	0.00093	PASS
			LCH	10	6.06	0.01033	PASS
				20	-1.91	0.00072	PASS
				30	1.78	0.00517	PASS
				40	1.64	0.005	PASS
				50	-0.38	0.00257	PASS
				-30	-3.08	-0.00066	PASS
				-20	4.7	0.00864	PASS
			MCH	-10	4.37	0.00825	PASS
				0	2.88	0.00643	PASS



					10	3.79	0.0075	PASS
					20	-4.94	-0.00281	PASS
					30	-4	-0.0018	PASS
					40	0.92	0.00413	PASS
					50	-3.47	-0.00116	PASS
			HCH	VN	-30	3.89	0.00767	PASS
					-20	-4.7	-0.00259	PASS
					-10	7.75	0.01229	PASS
					0	-1.36	0.00141	PASS
					10	-1.26	0.00153	PASS
					20	-0.92	0.00193	PASS
					30	0.27	0.00334	PASS
					40	0.09	0.00313	PASS
					50	-1.81	0.00083	PASS

END