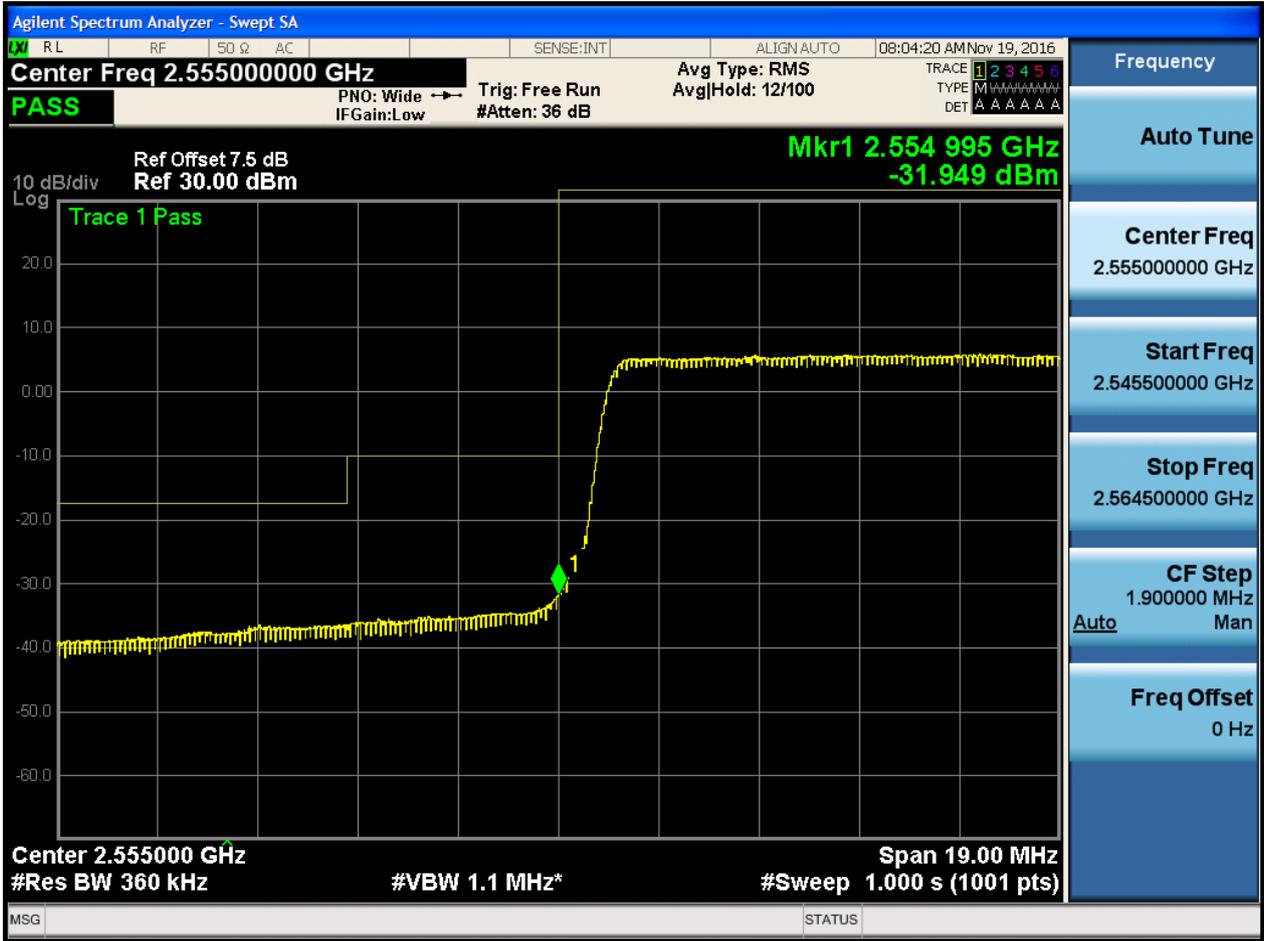




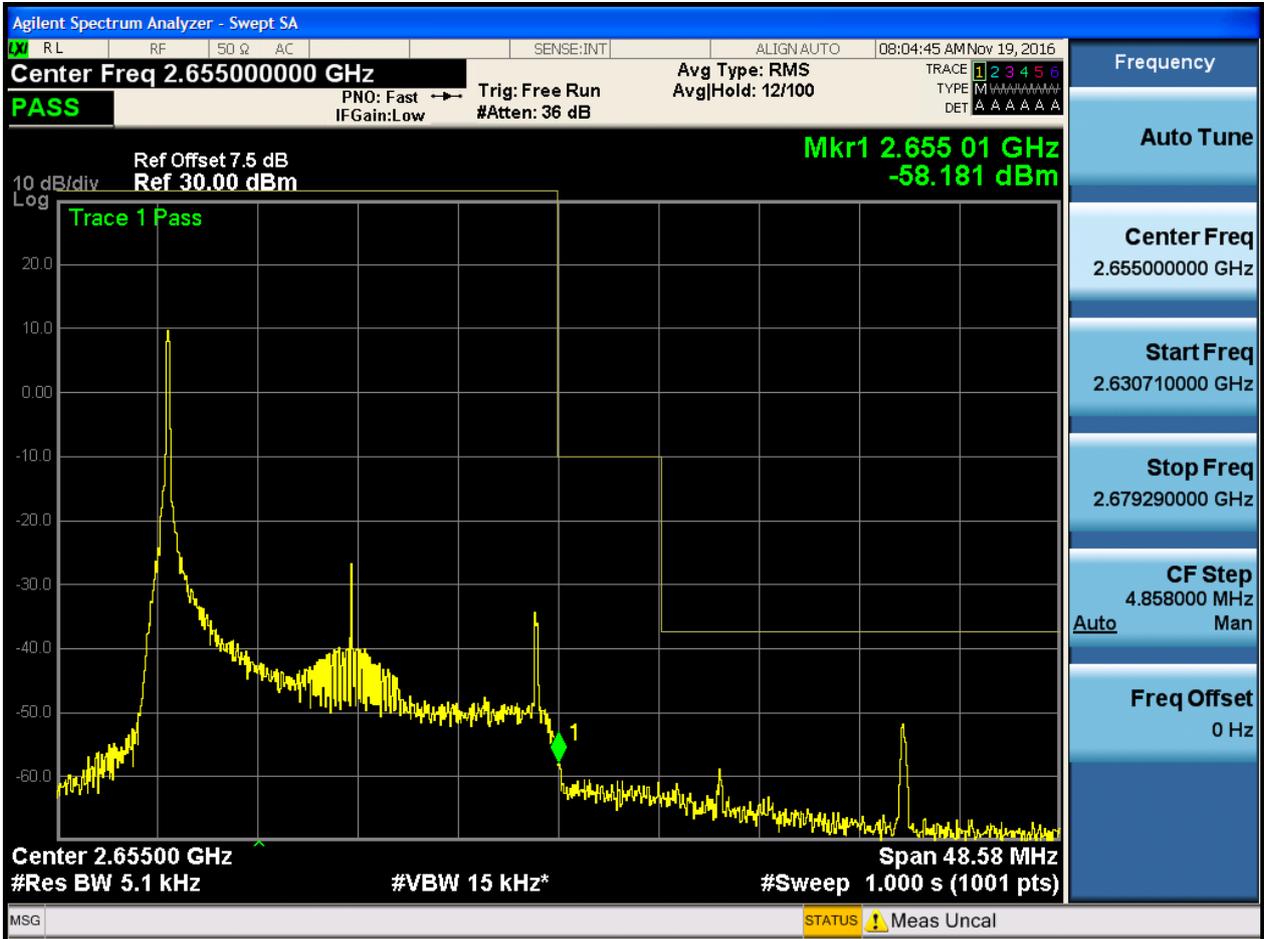
5.1.1.2.4.1.4 Test RB = RB100#0





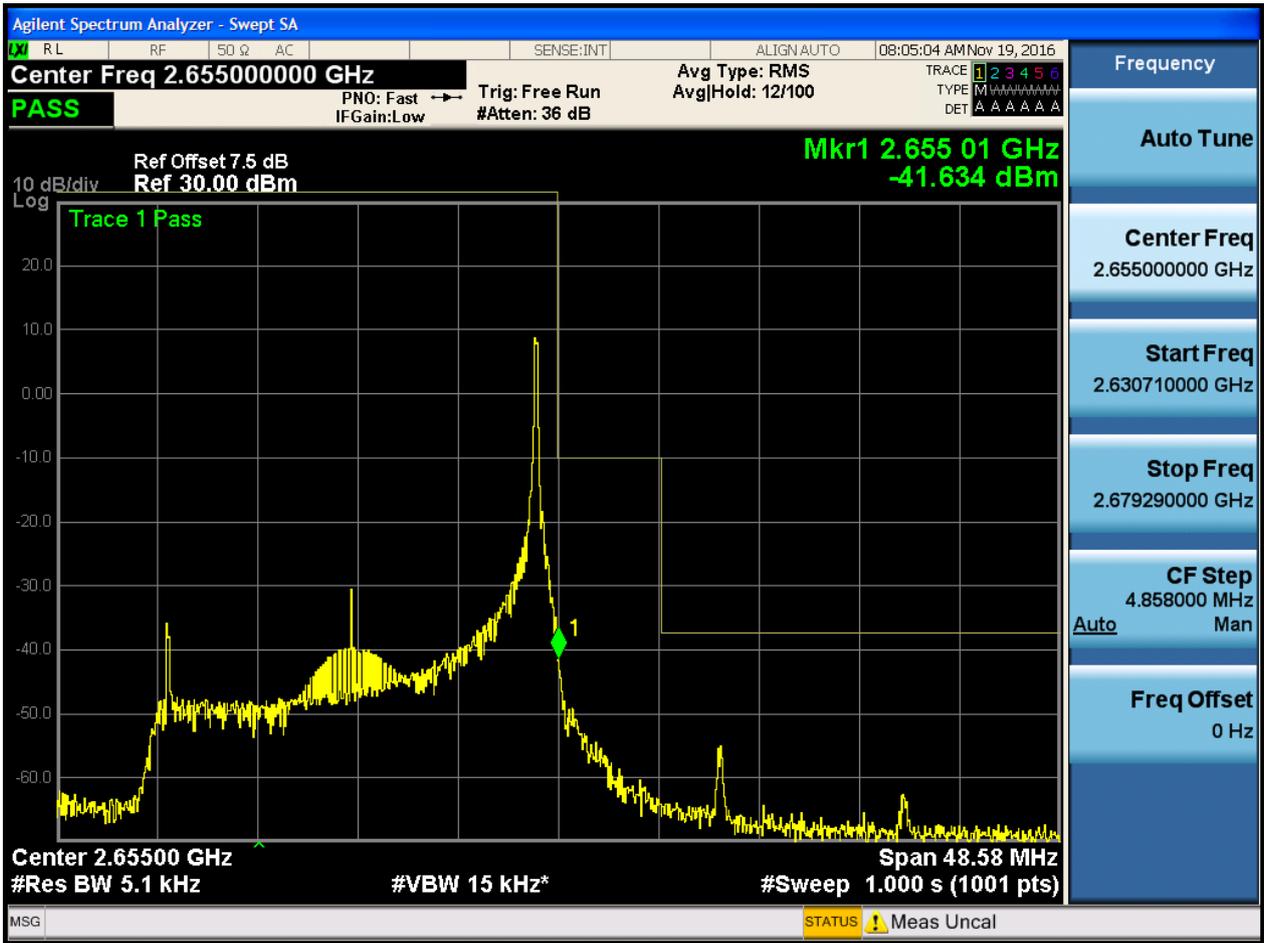
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





5.1.1.2.4.2.2 Test RB = RB1#99





5.1.1.2.4.2.3 Test RB = RB50#25





5.1.1.2.4.2.4 Test RB = RB100#0





## 6Appendix\_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

### Part I - Test Plots

#### 6.1 For LTE

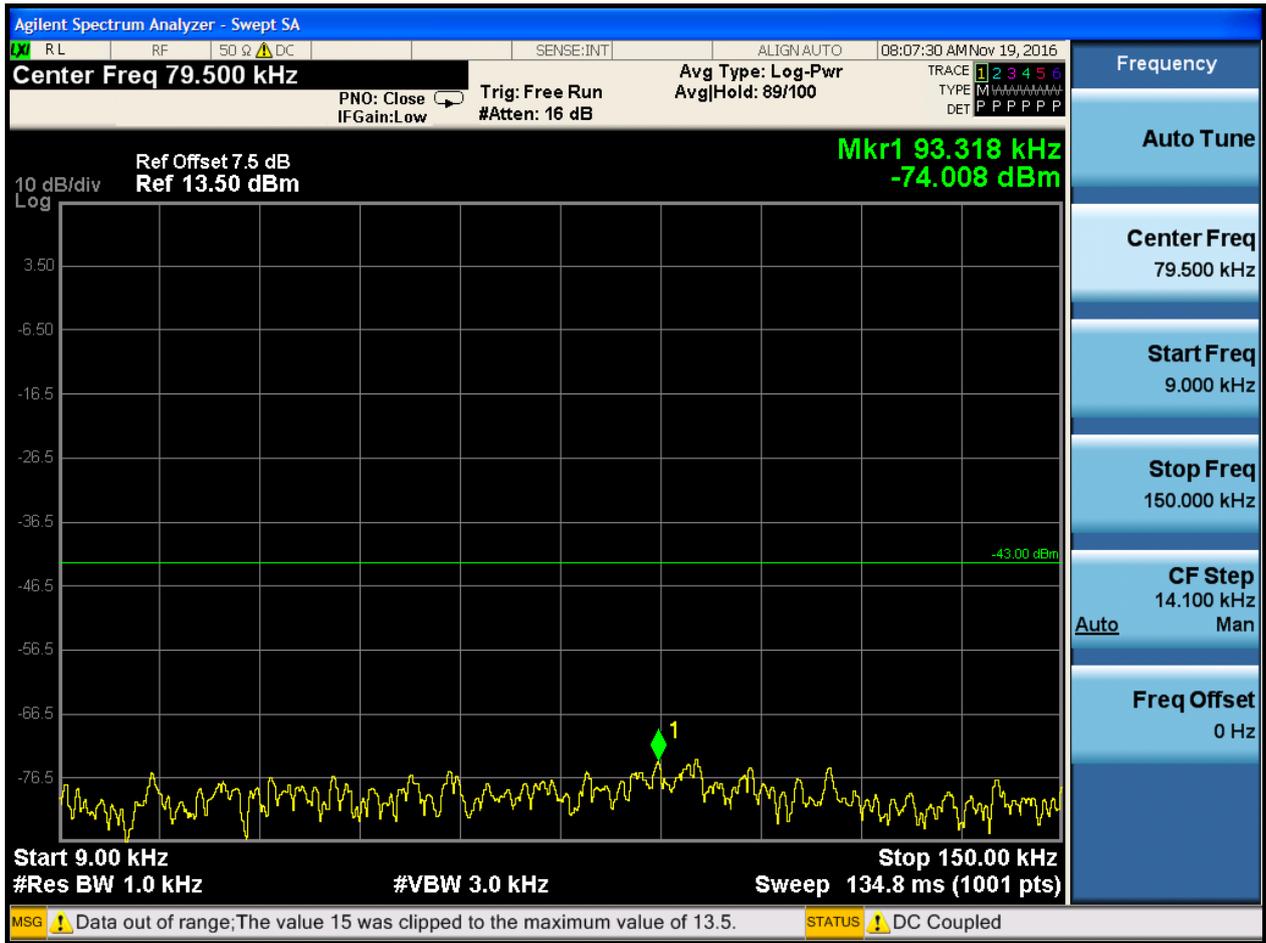
##### 6.1.1 Test Band = BAND41

##### 6.1.1.1 Test Mode = LTE/TM1

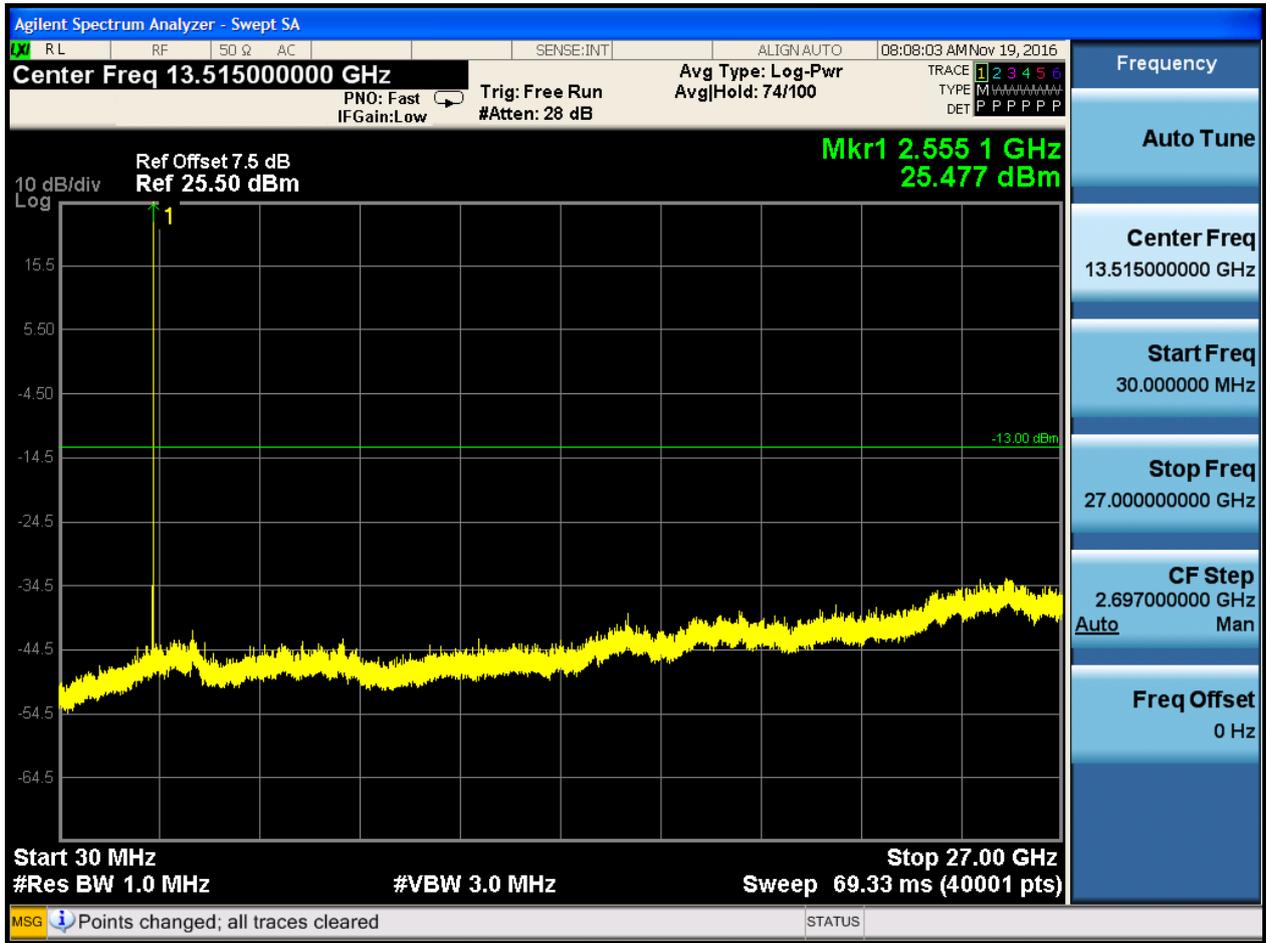
##### 6.1.1.1.1 Test Bandwidth = 5

##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 Test RB = RB1#0



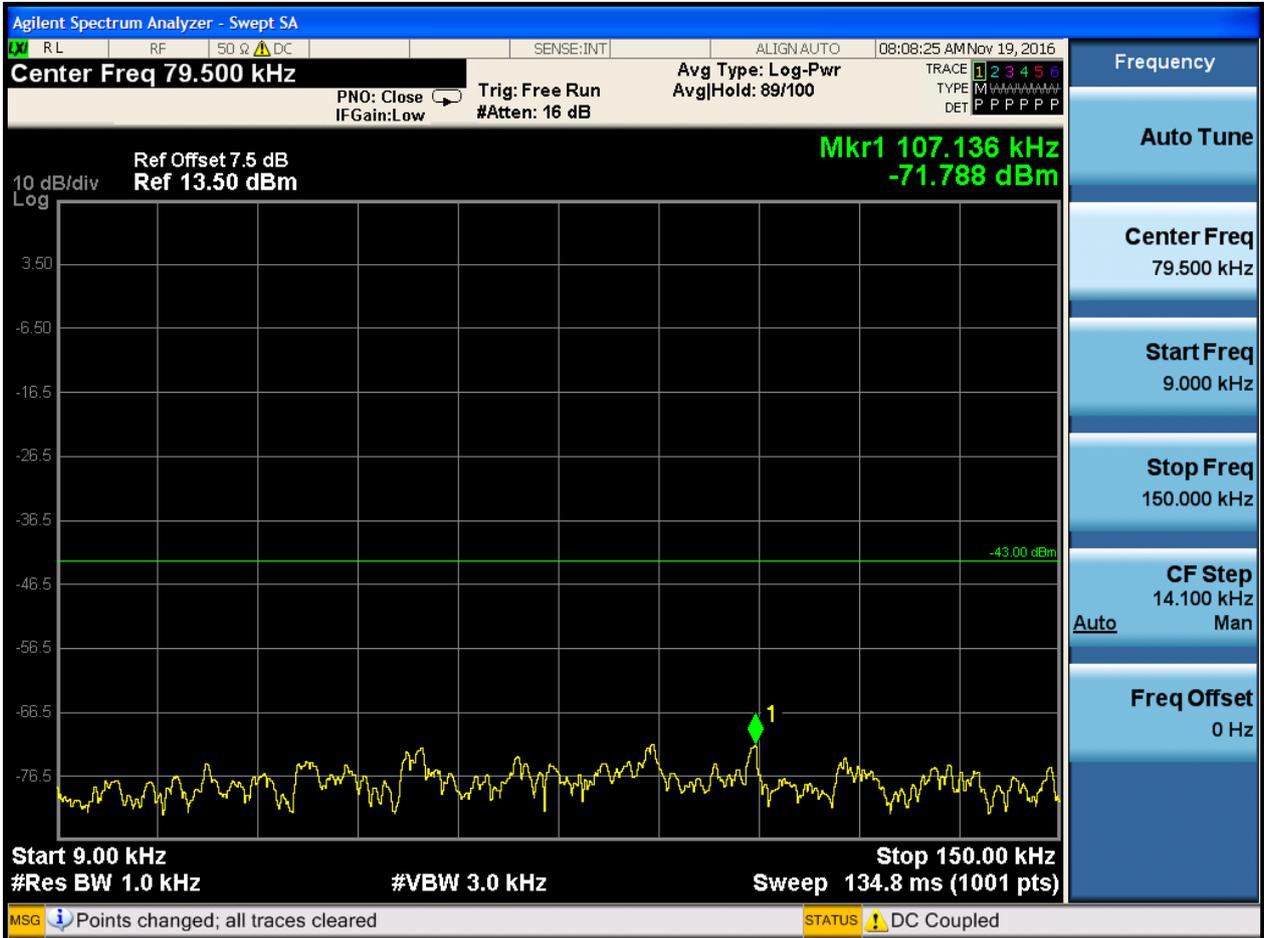






6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



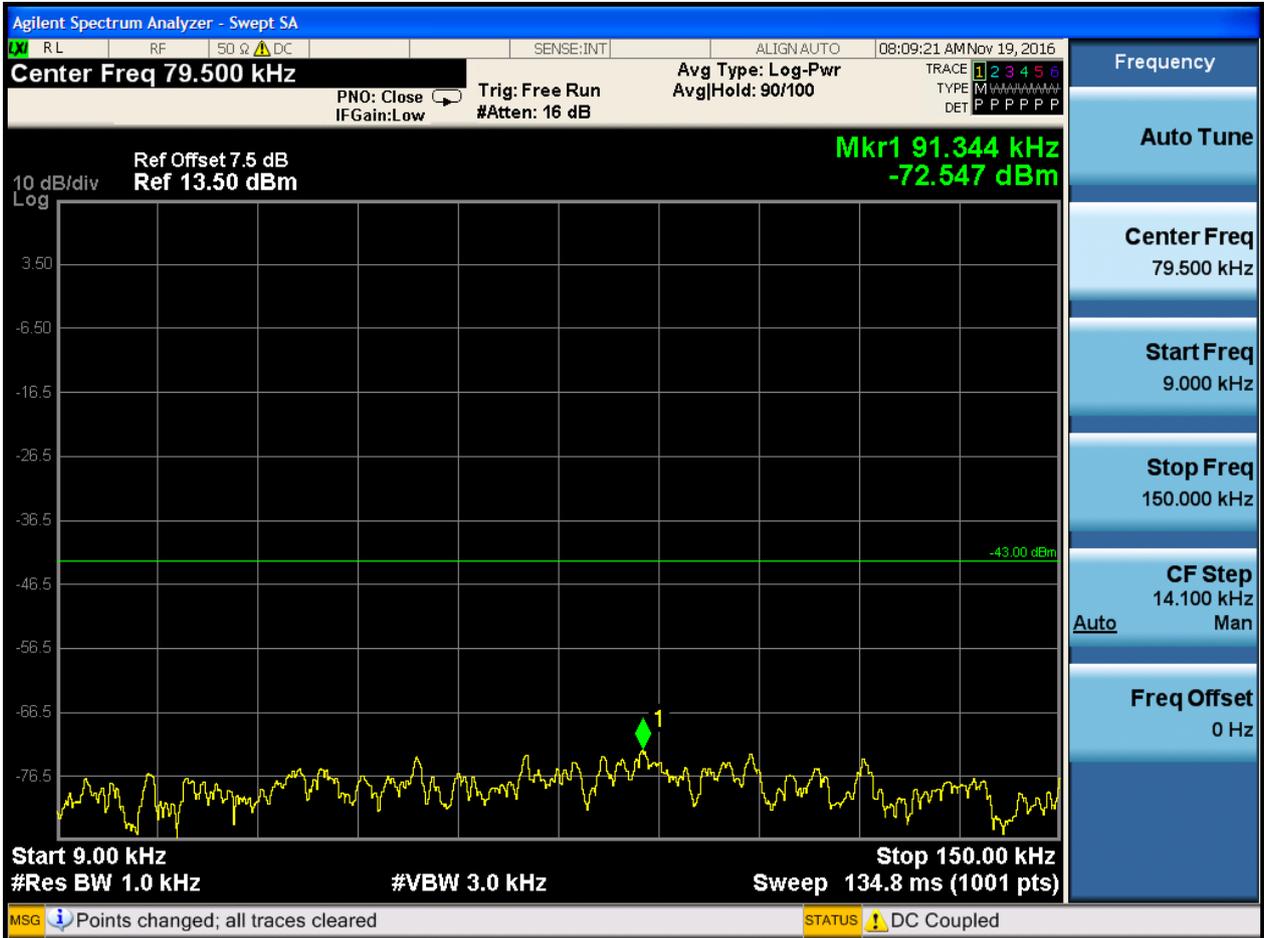






6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0





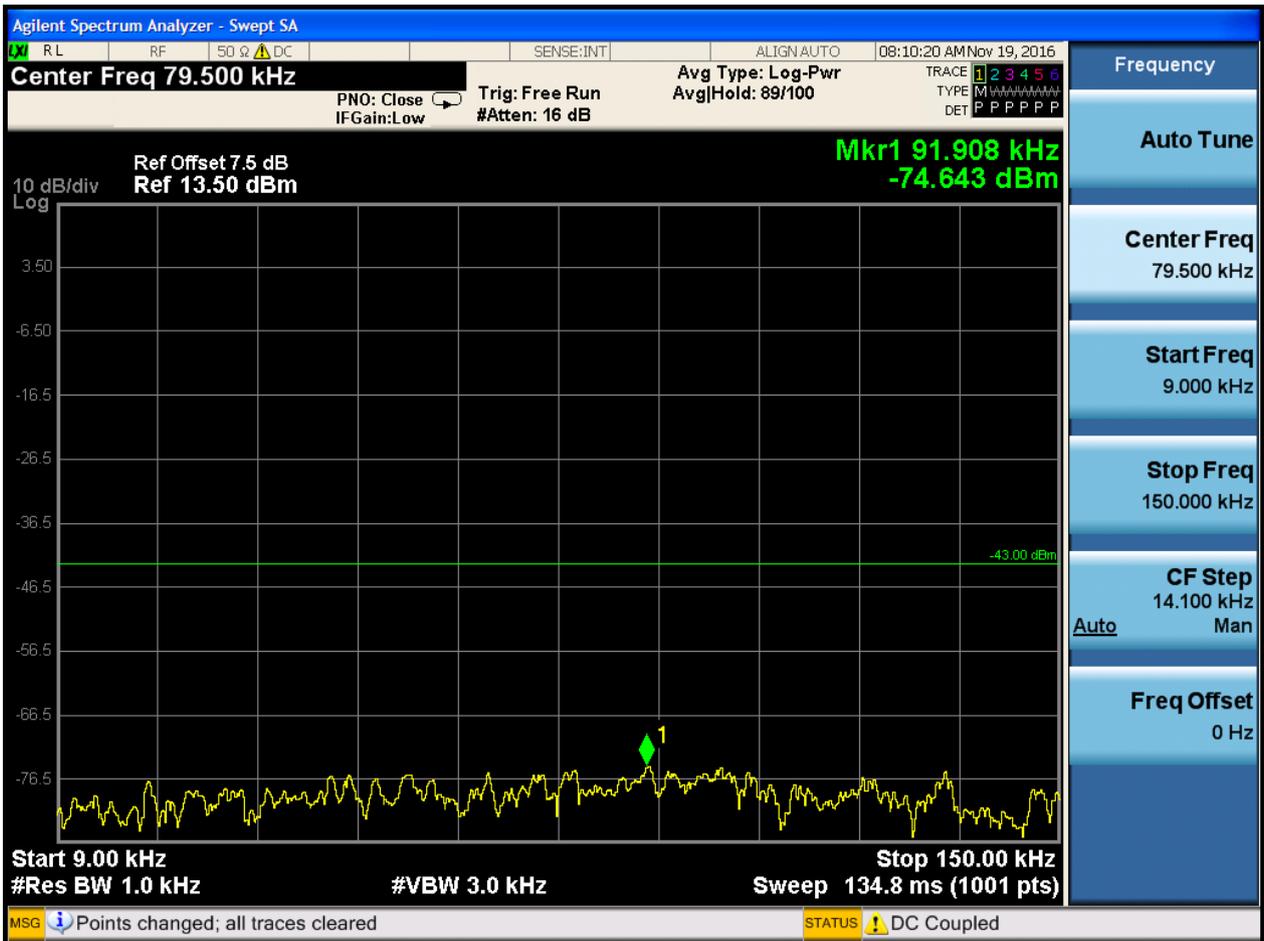




6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



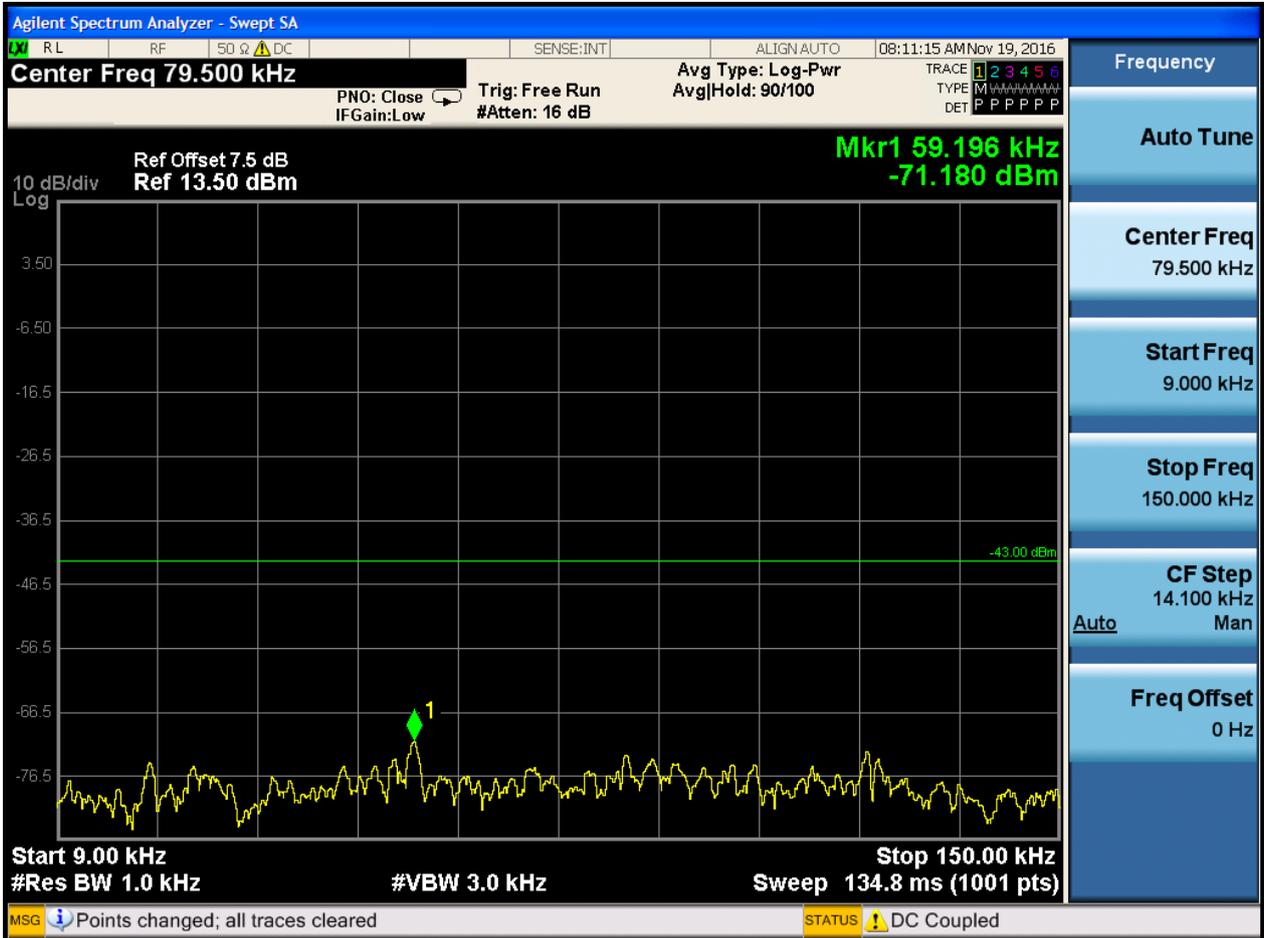






6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



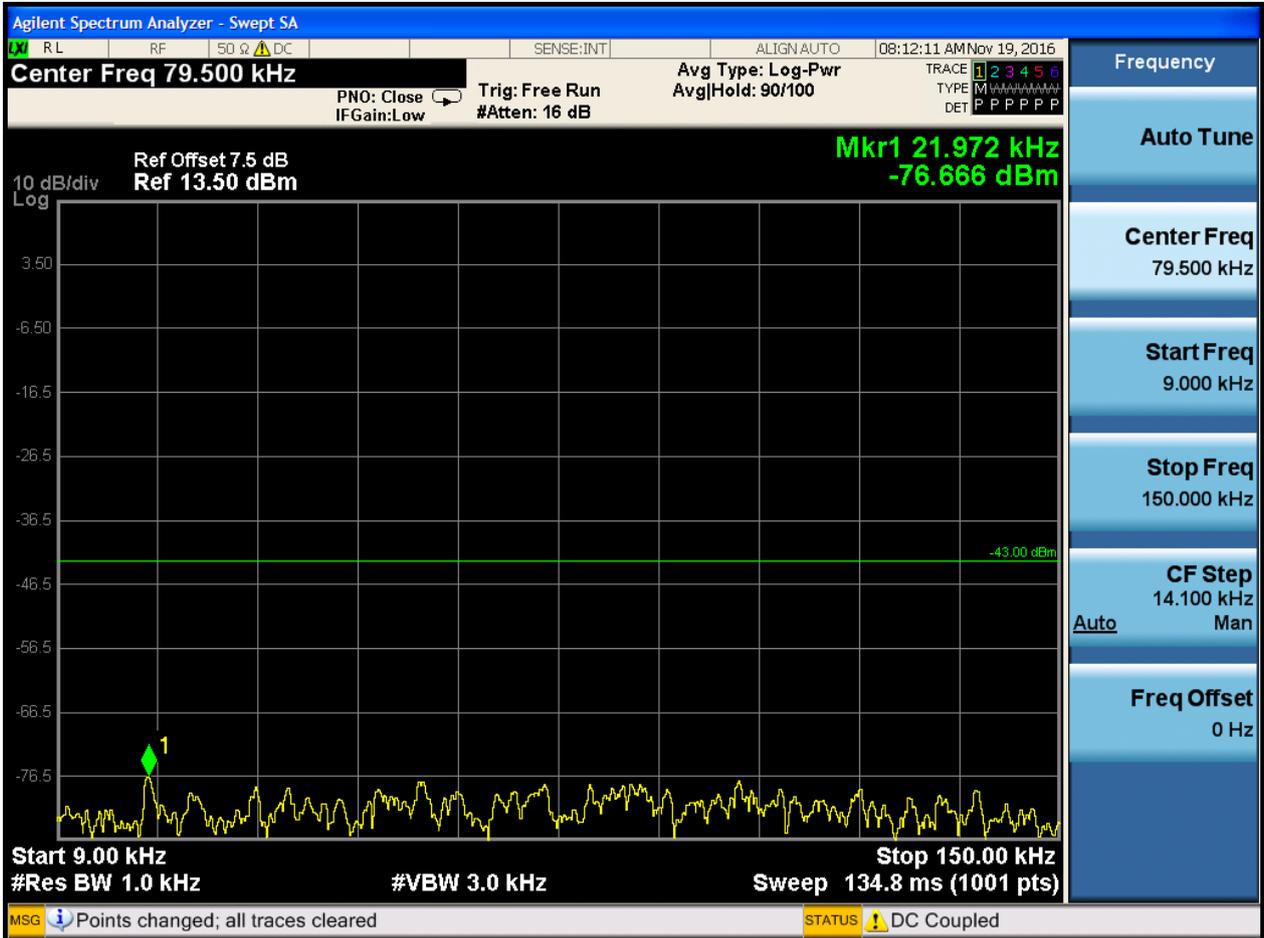




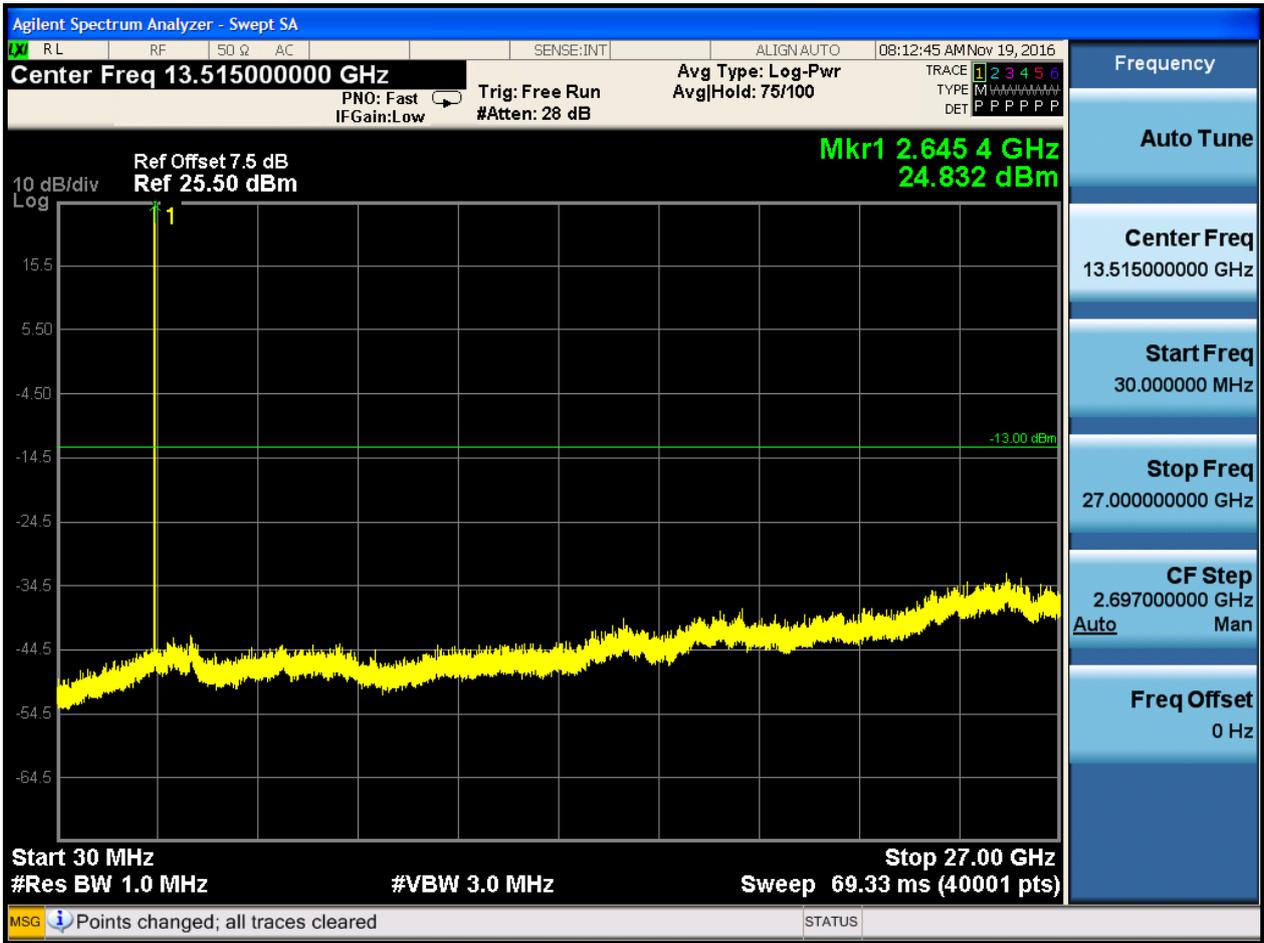


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





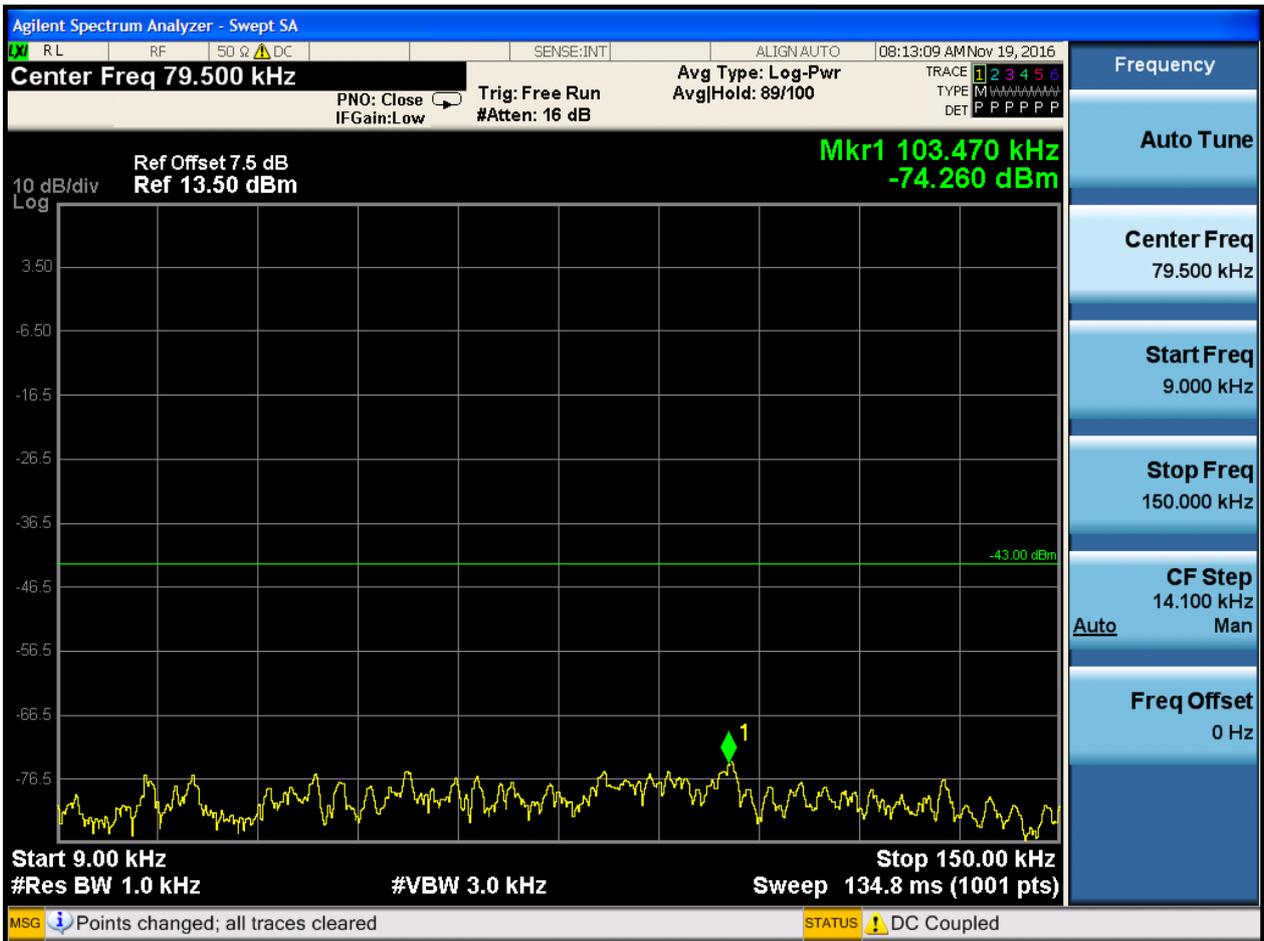




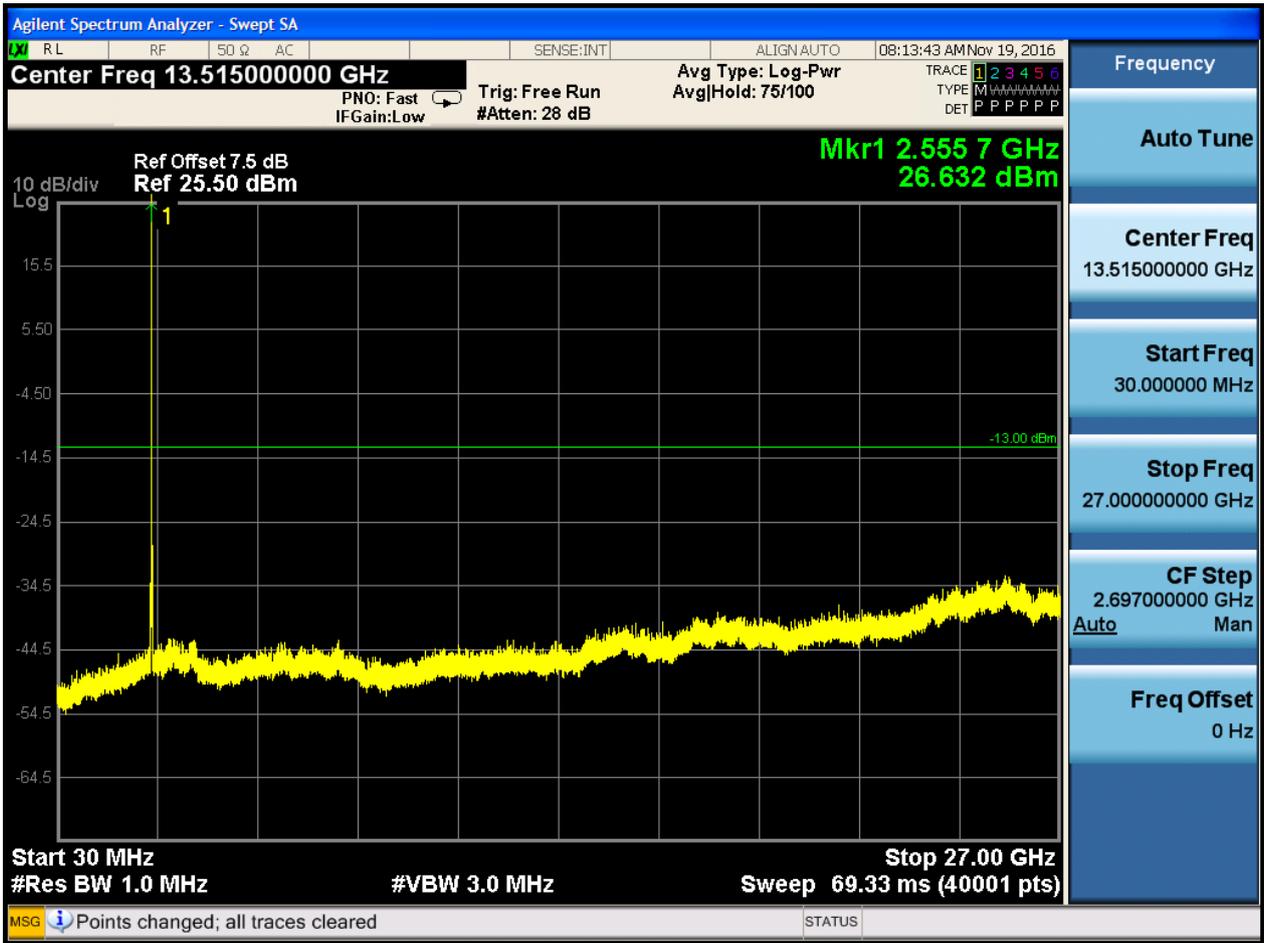
6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



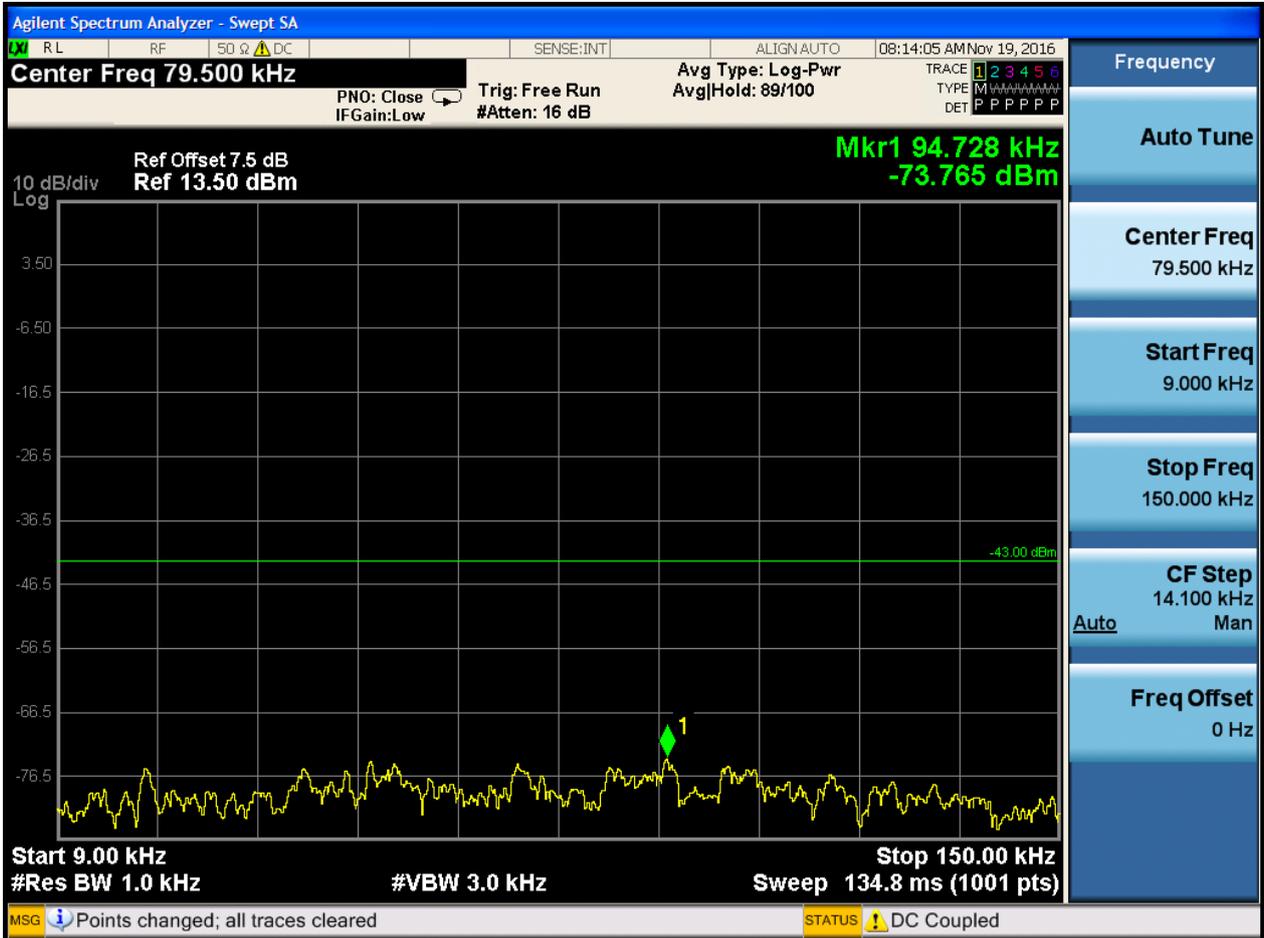


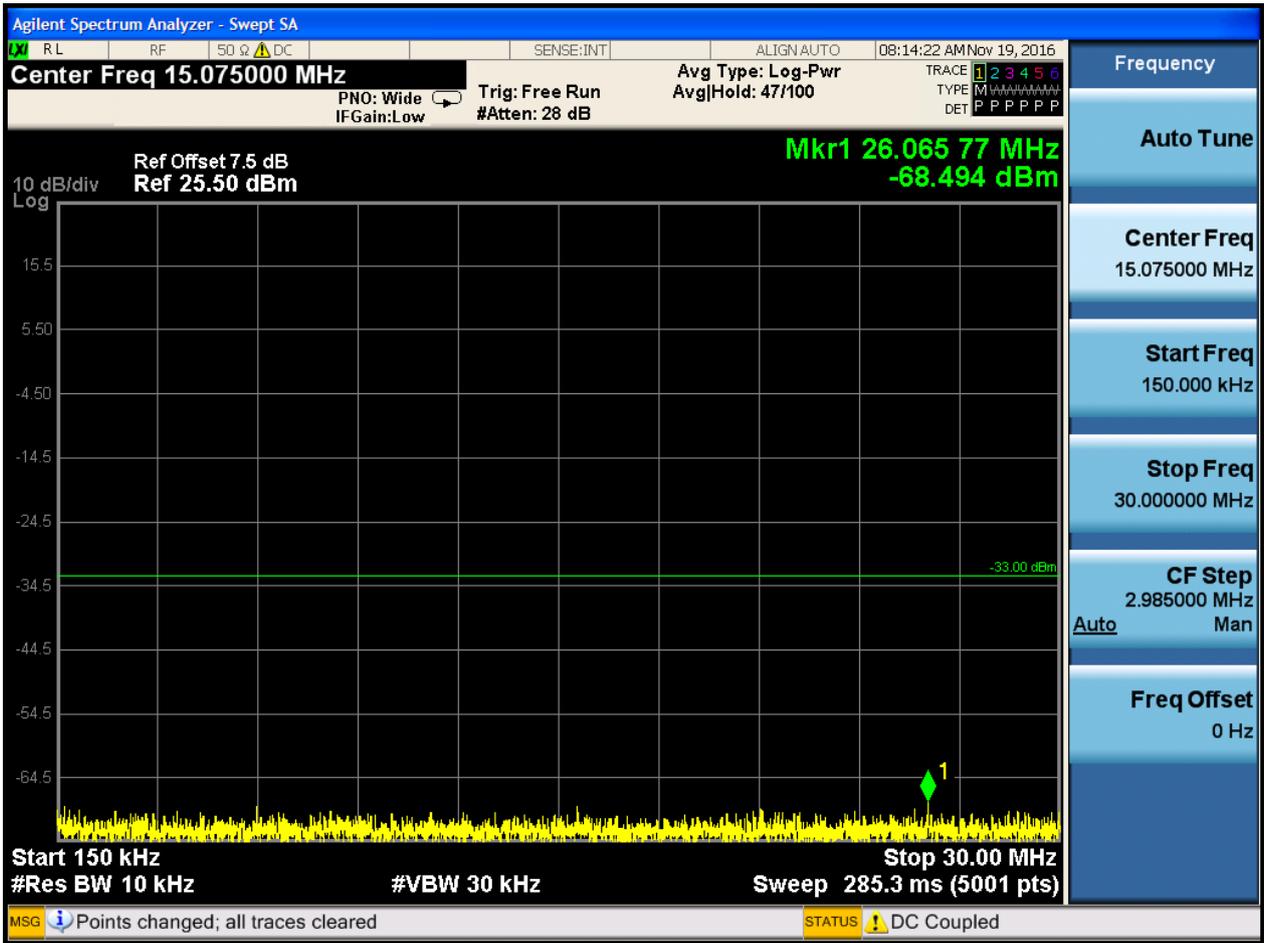




6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0







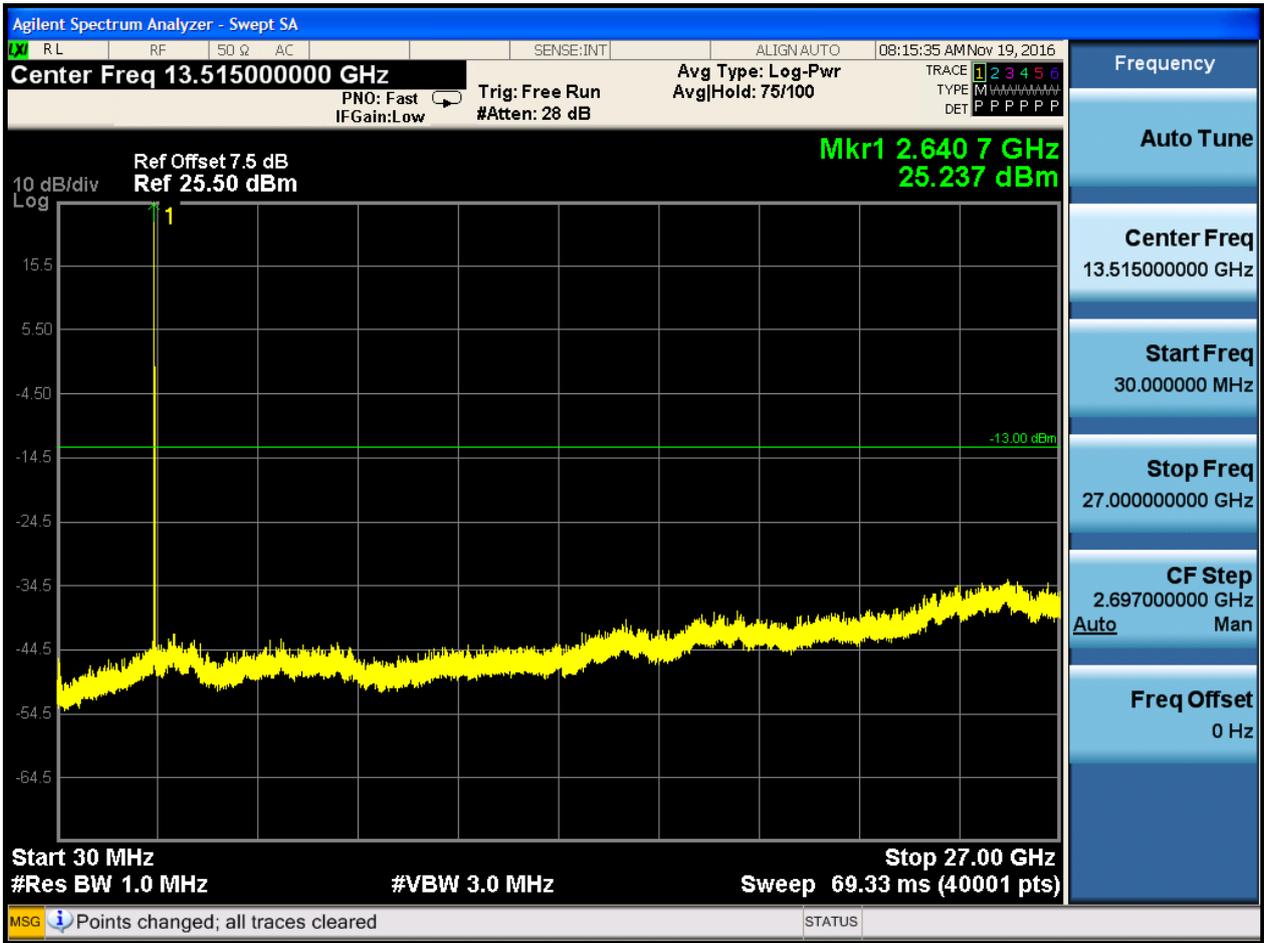


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





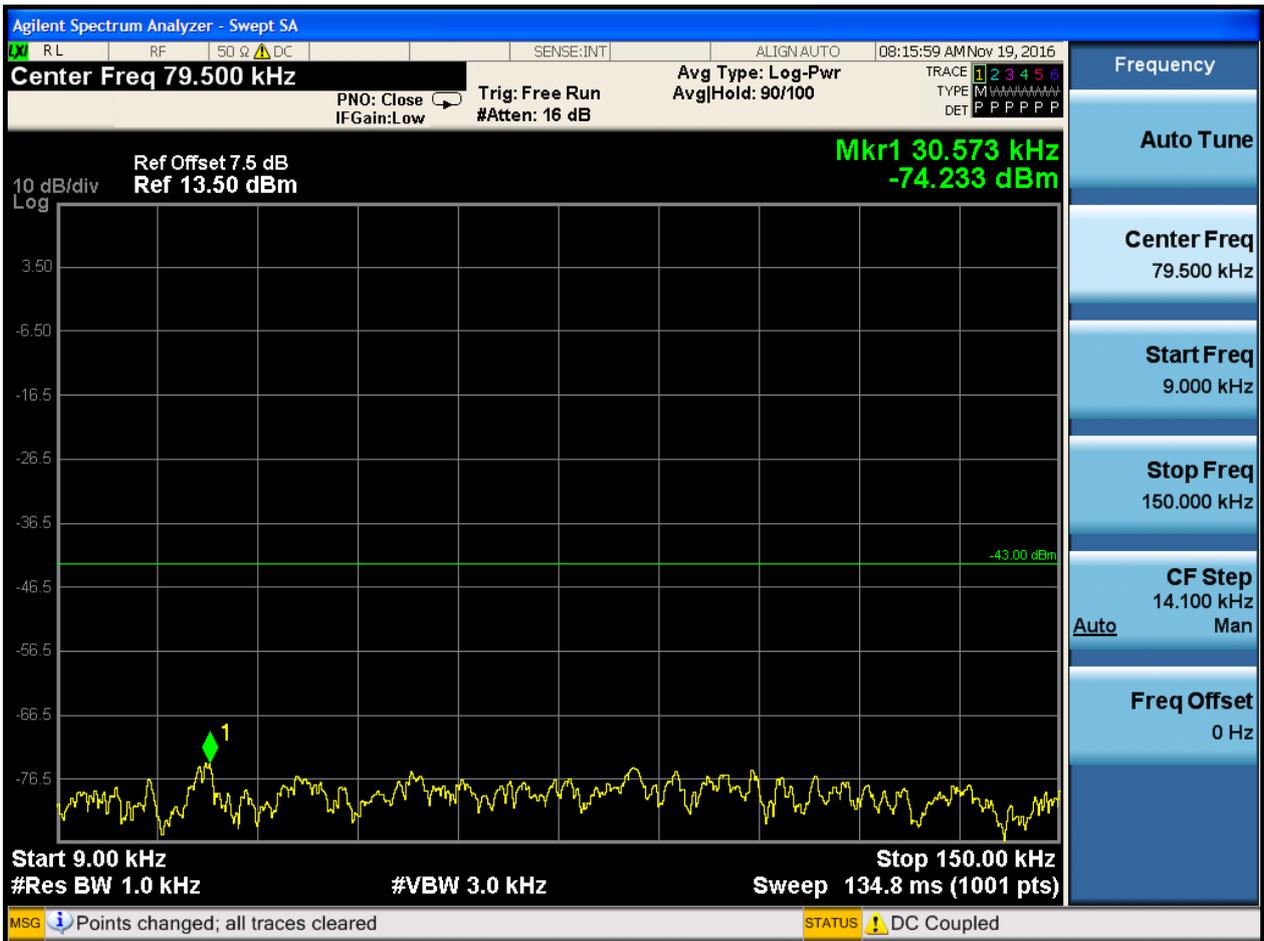




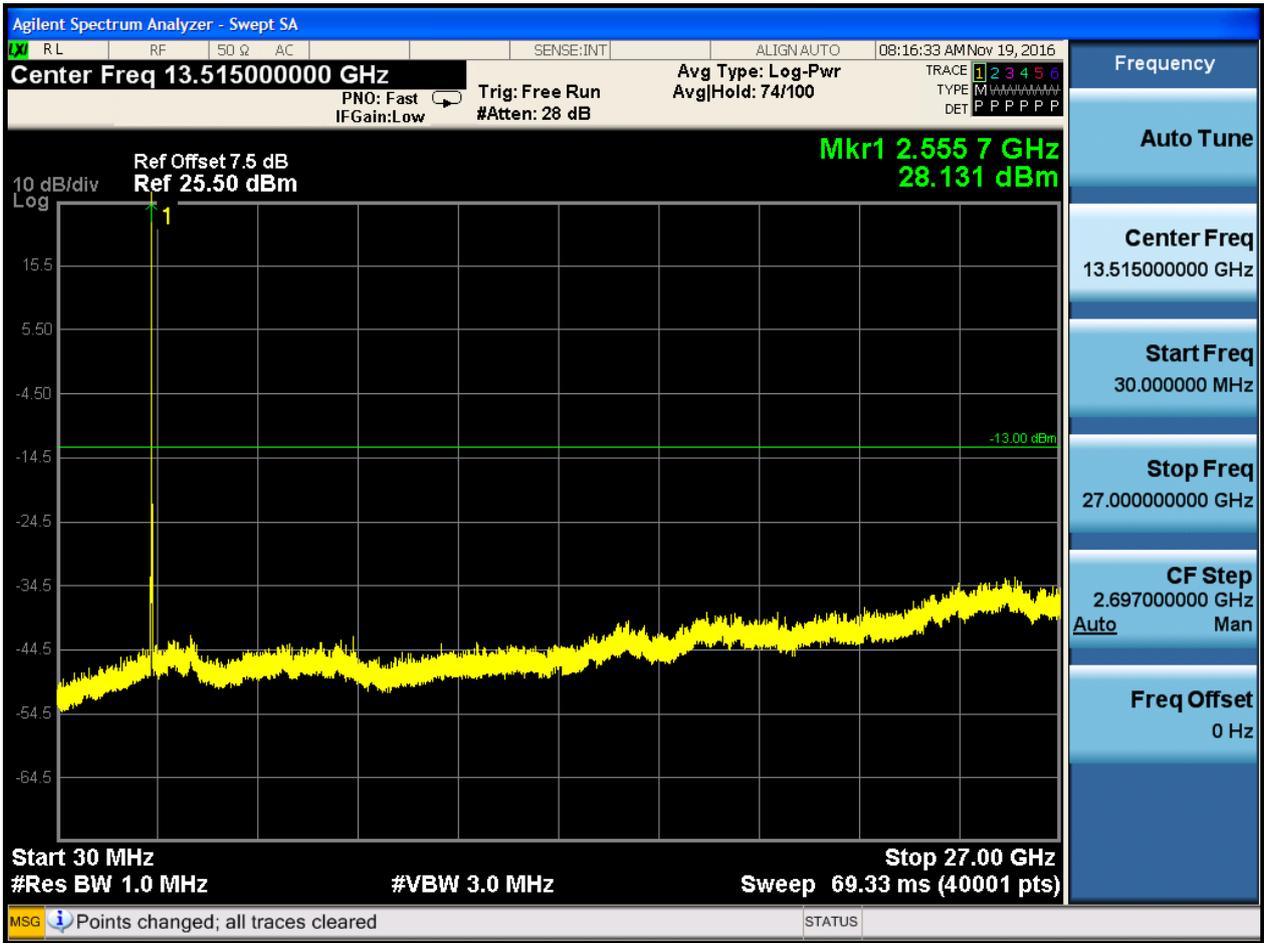
6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



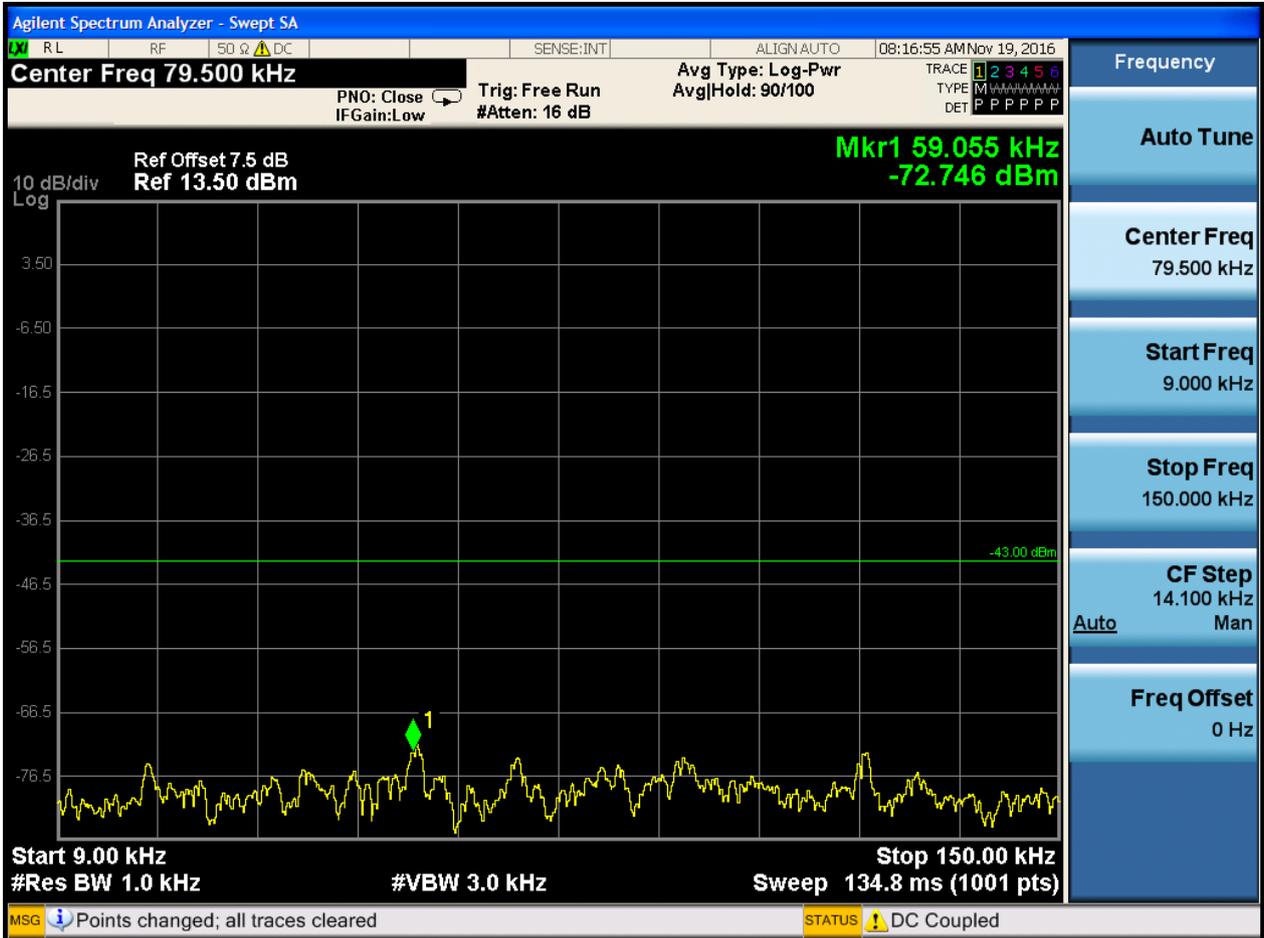






6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



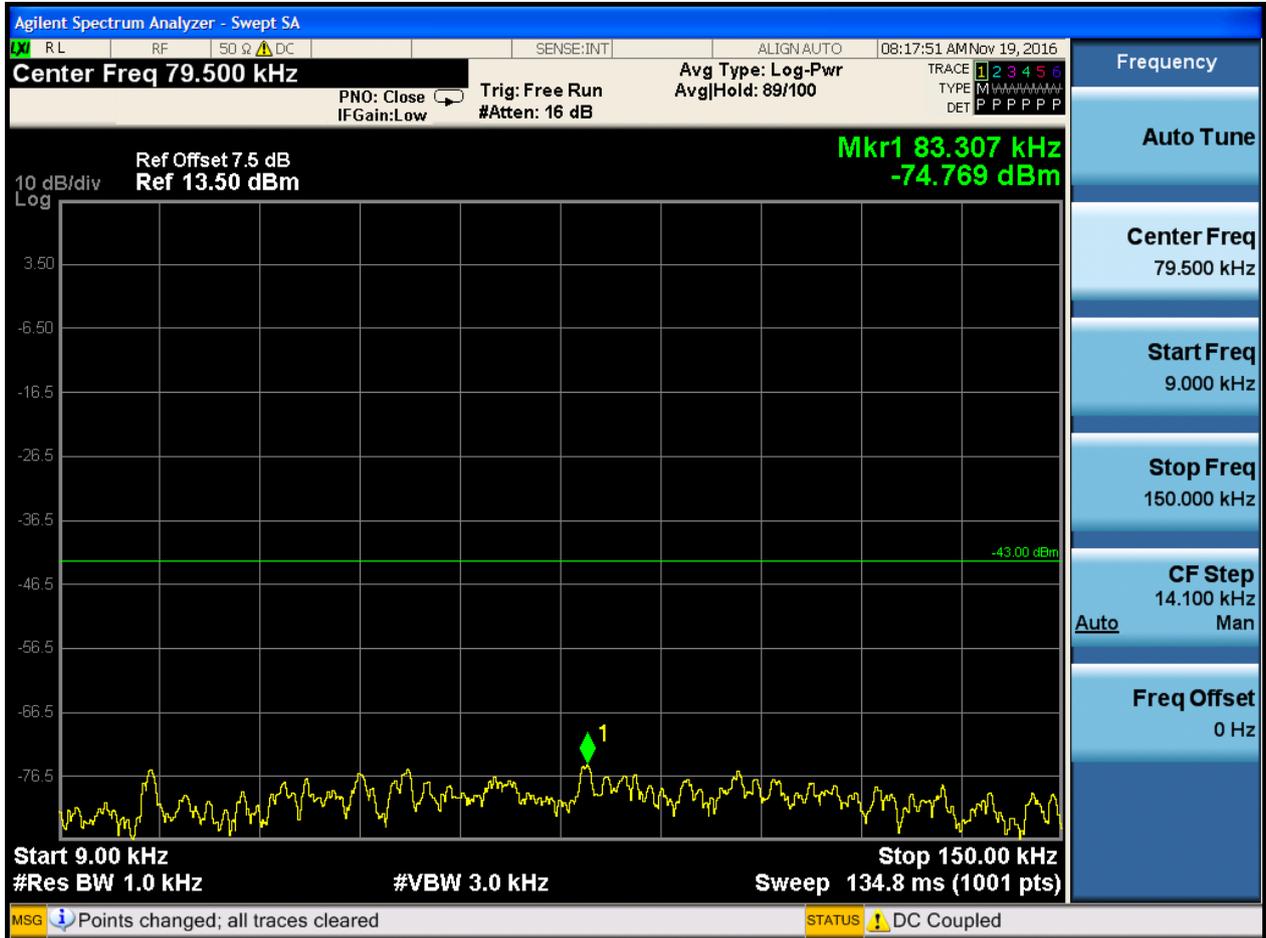




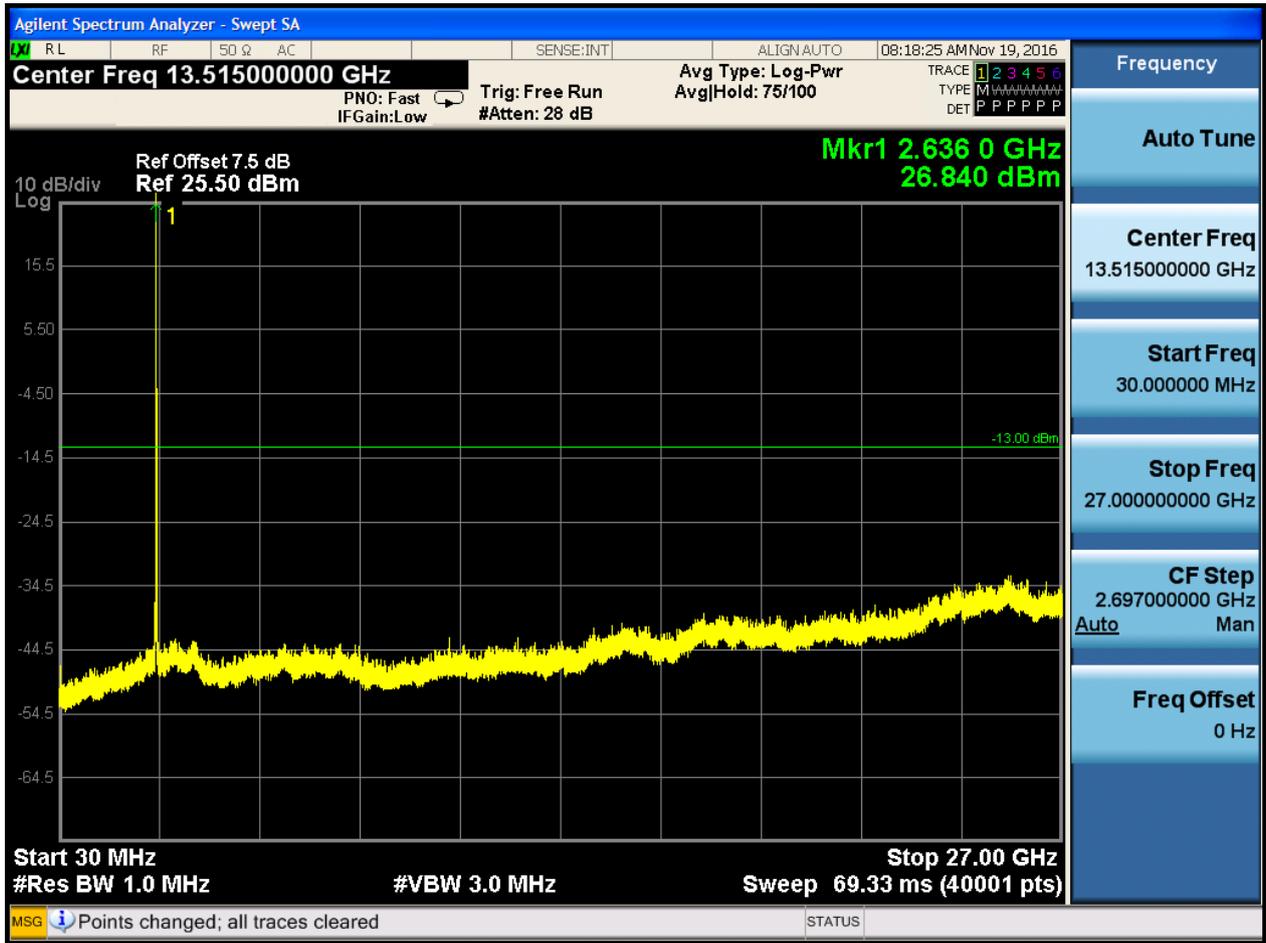


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







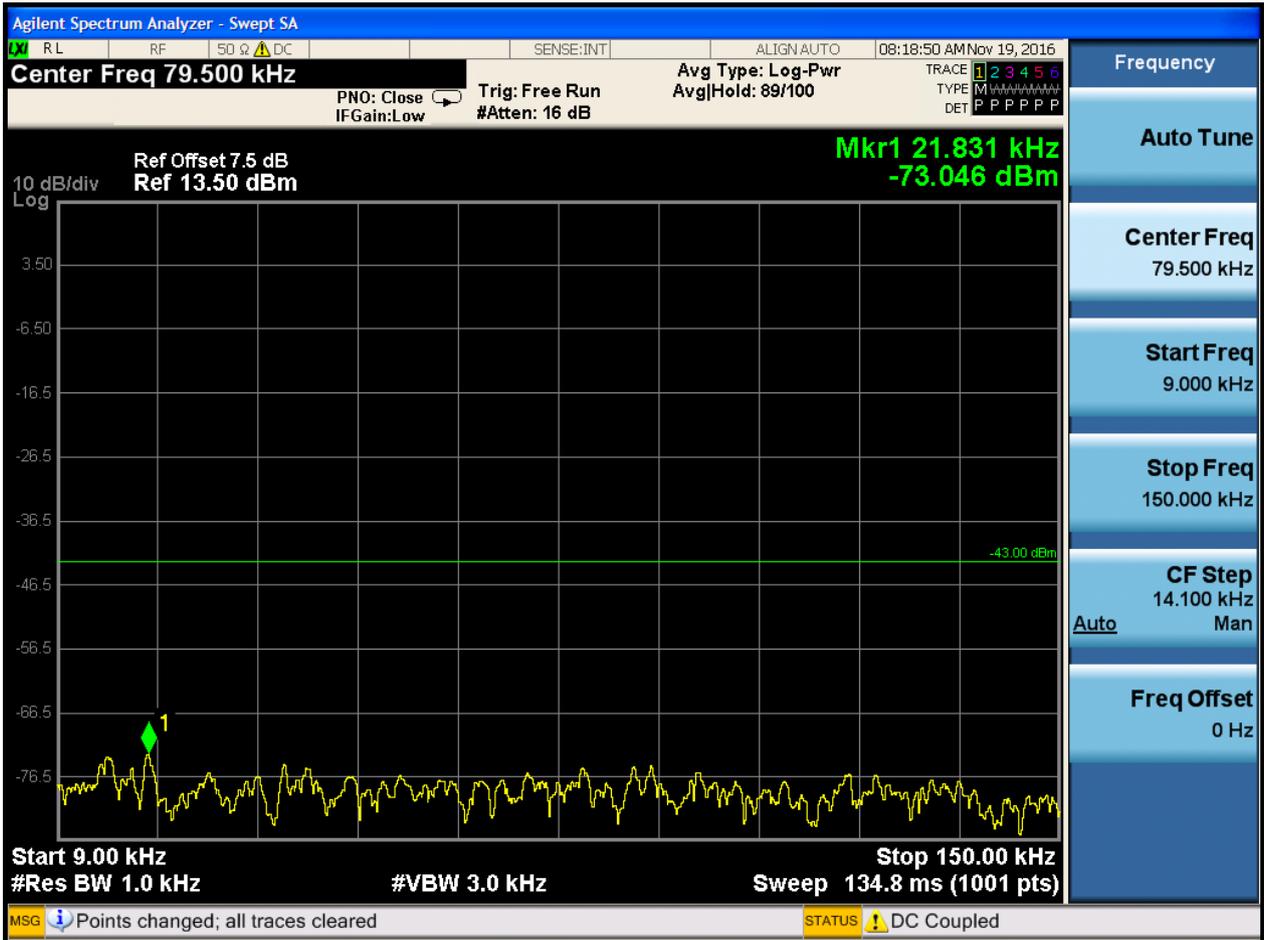


6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



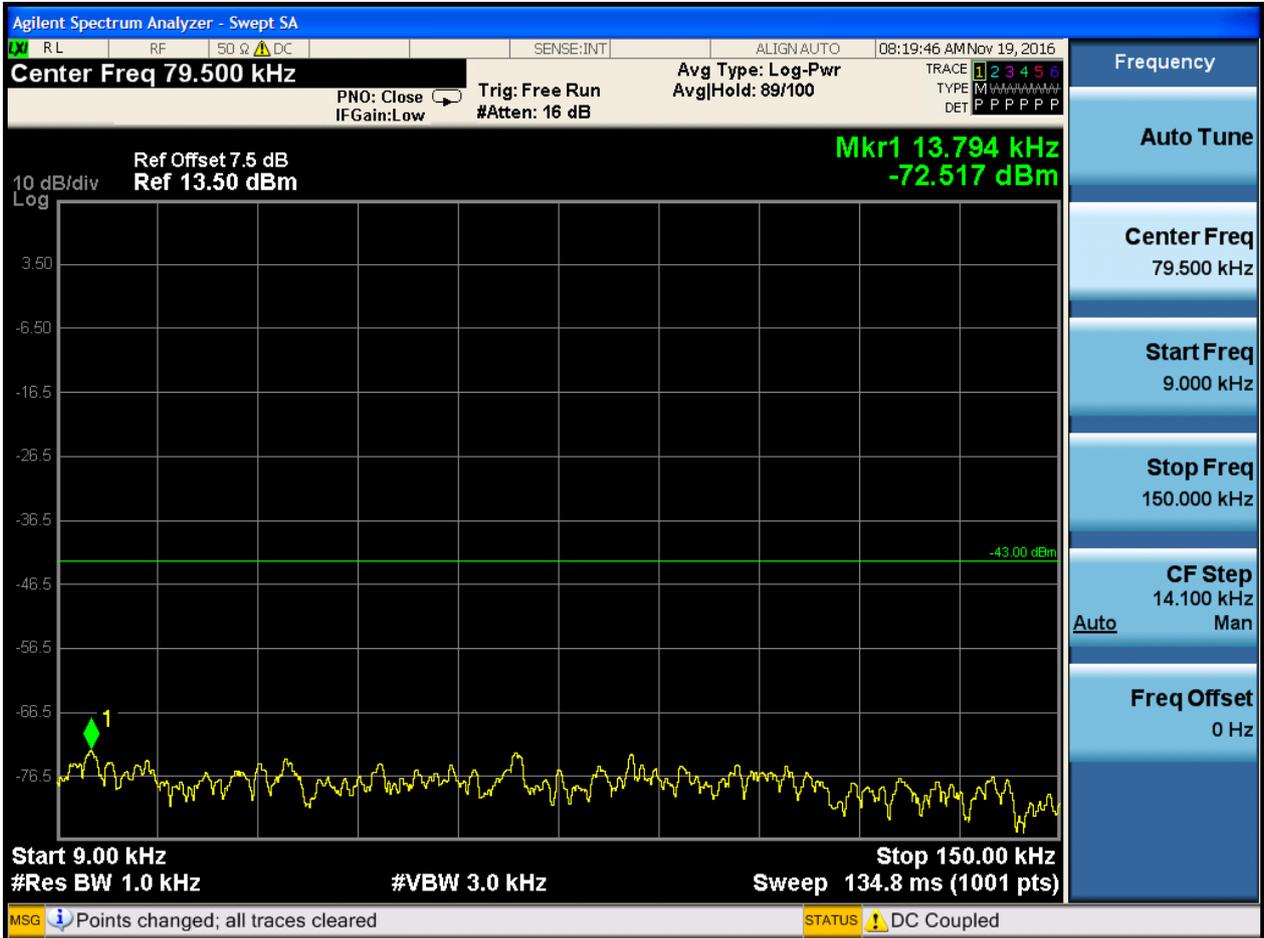




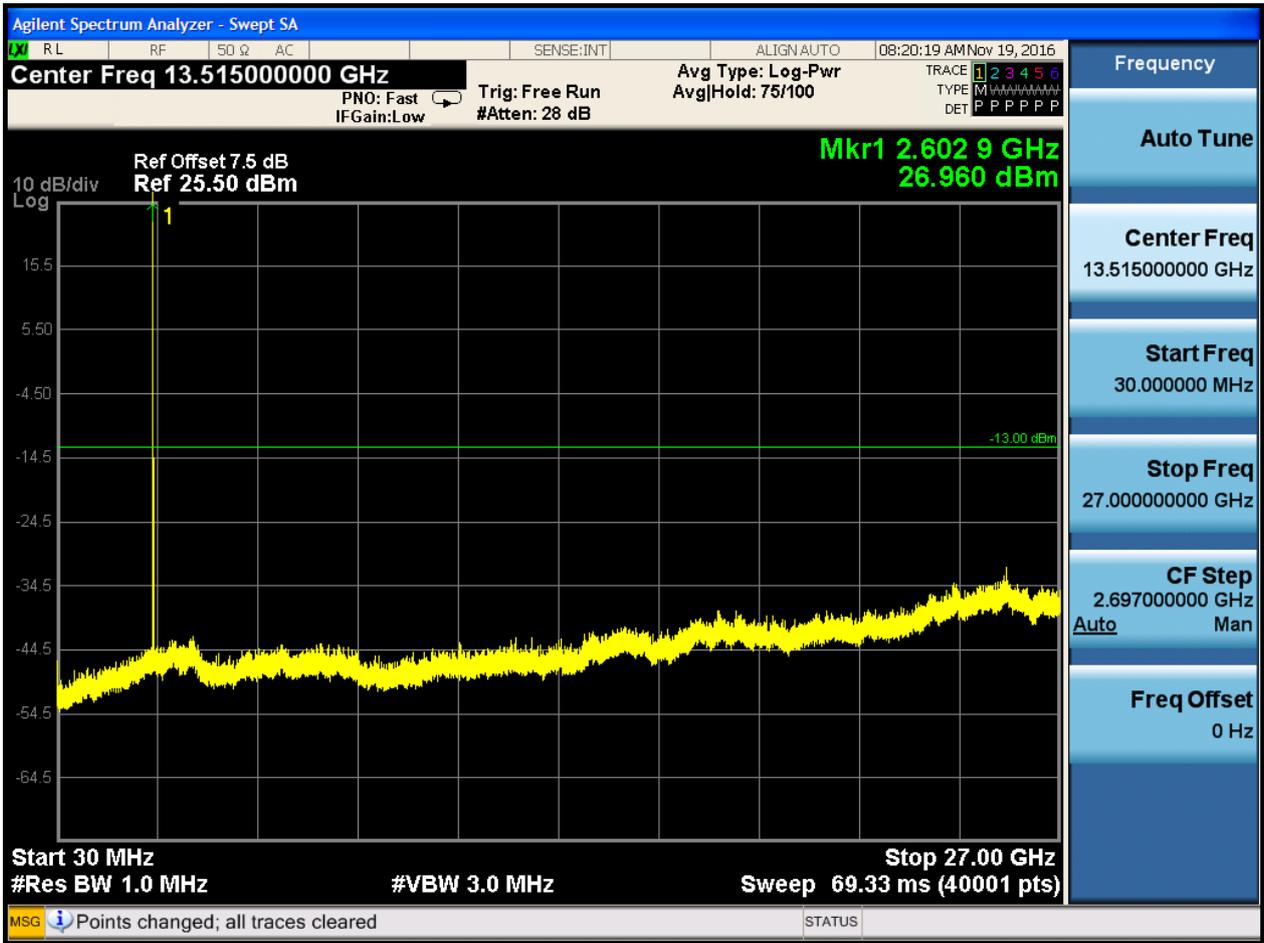


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



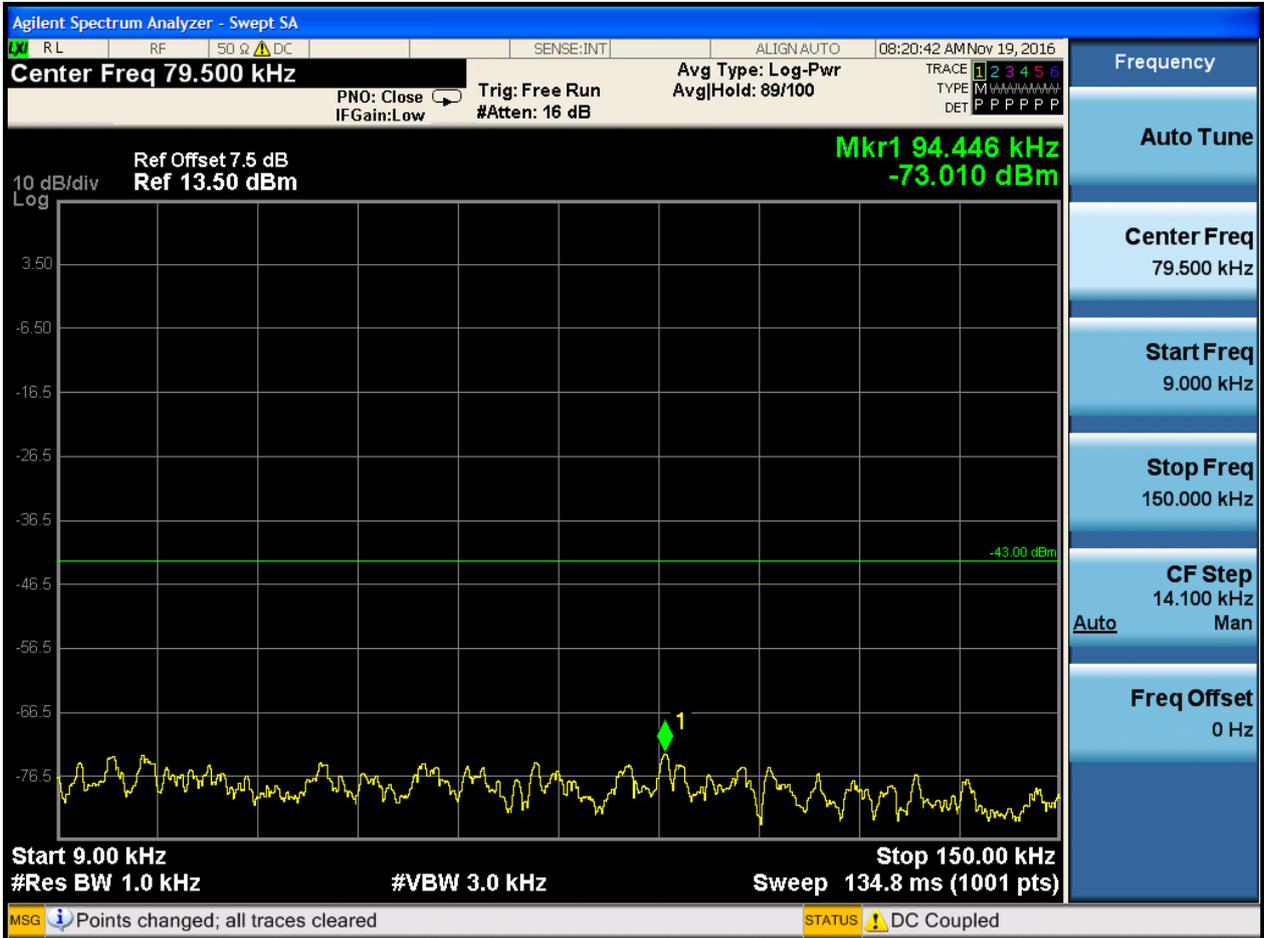




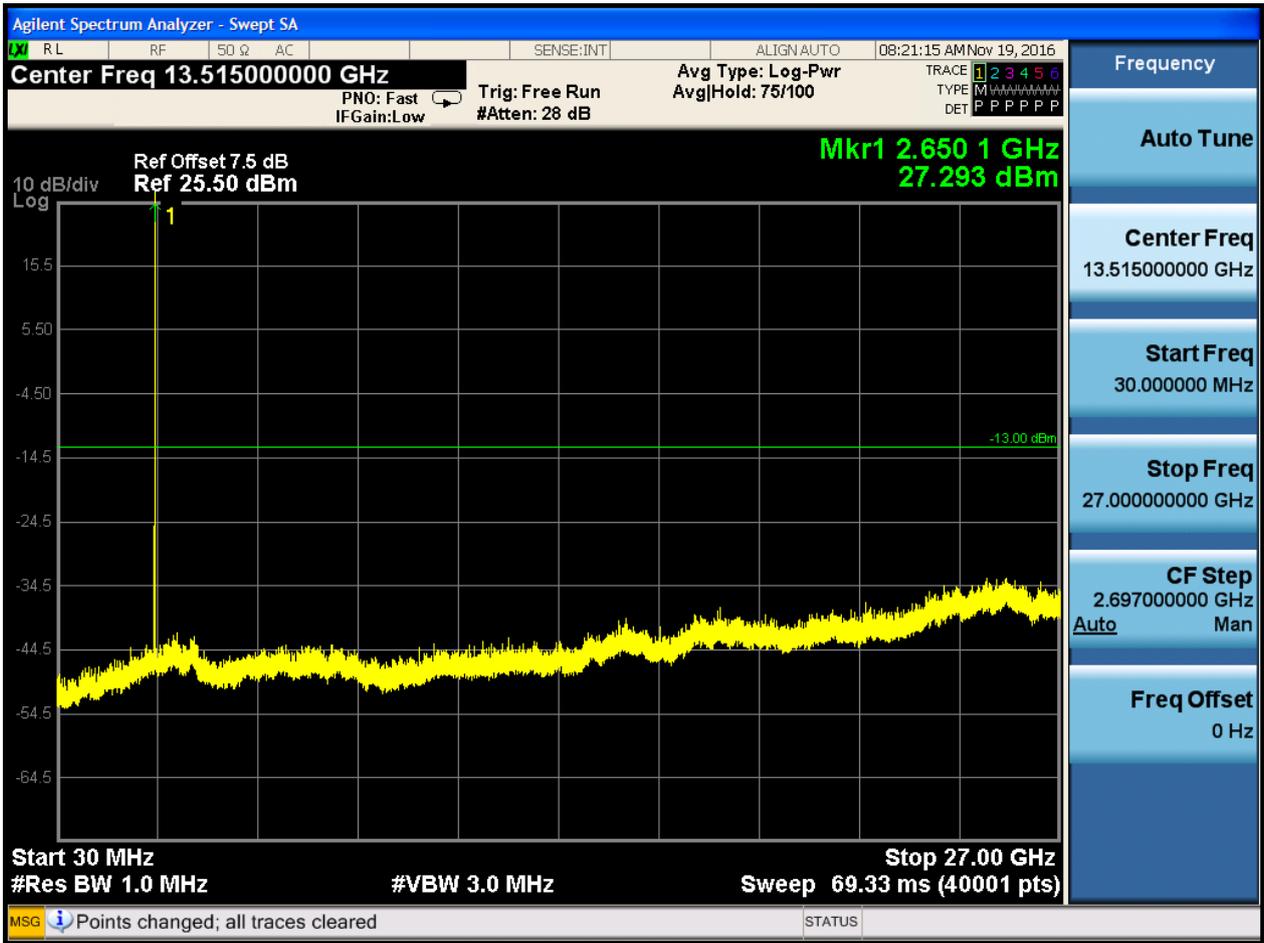


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





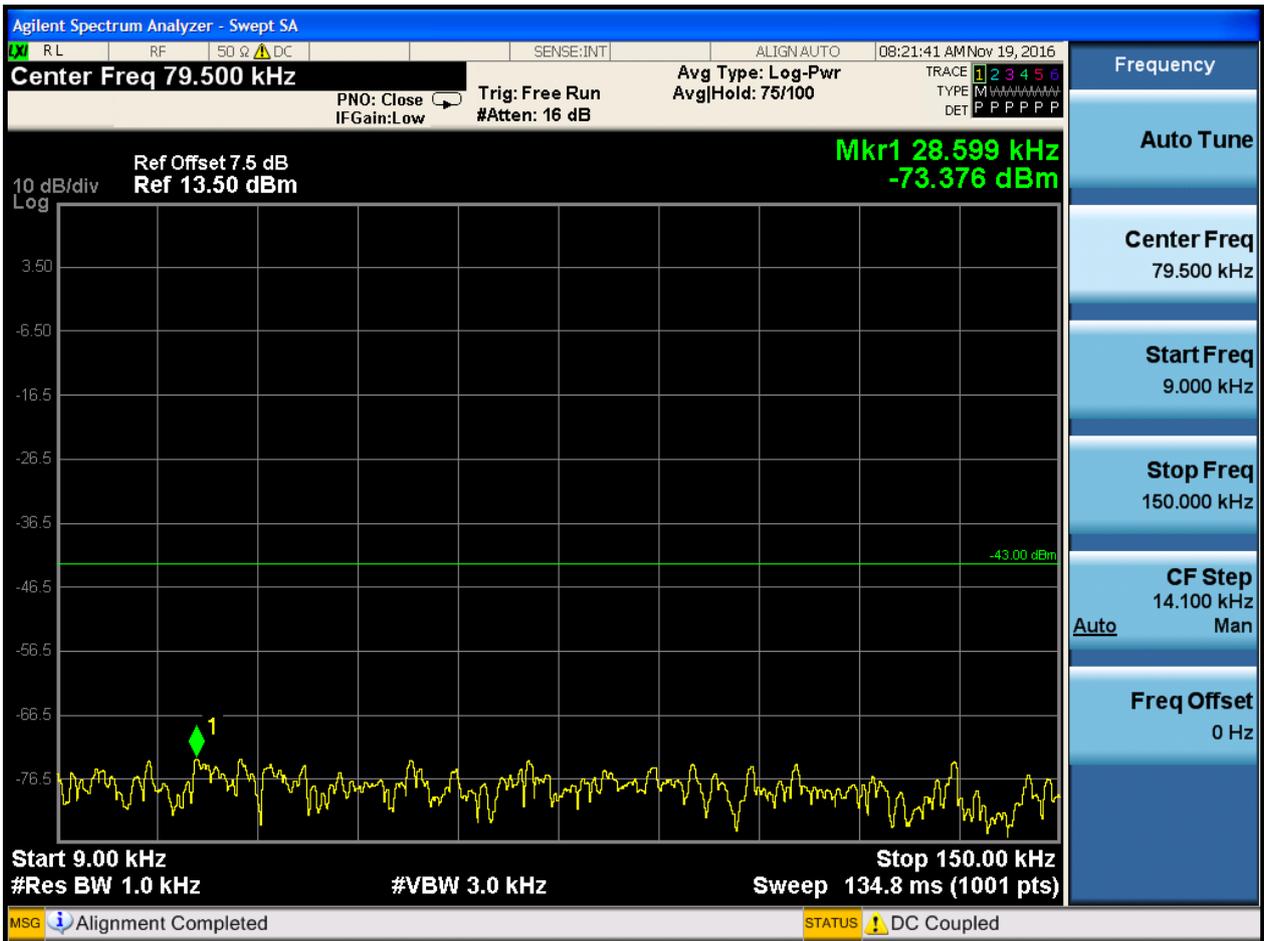




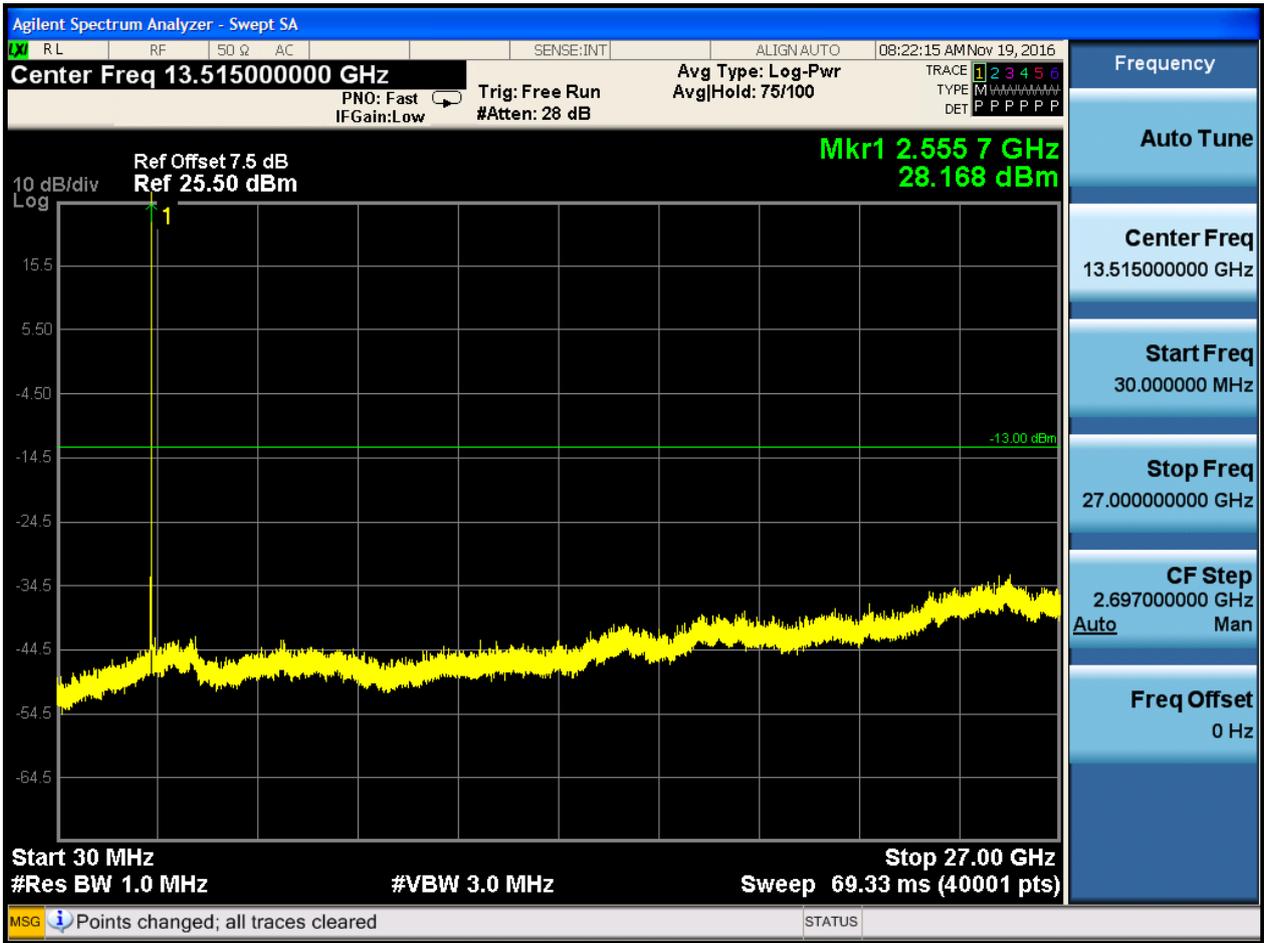
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



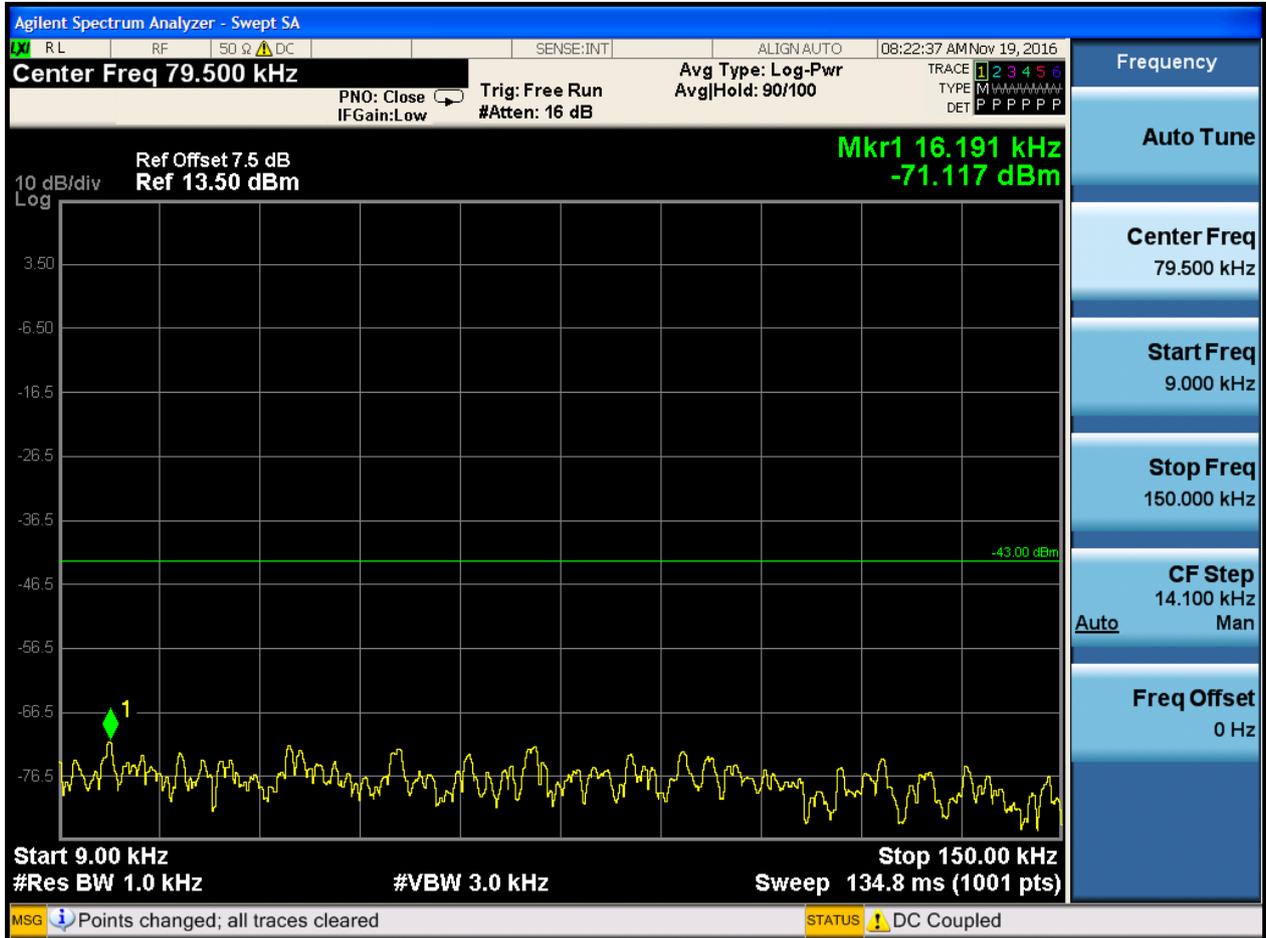






6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0







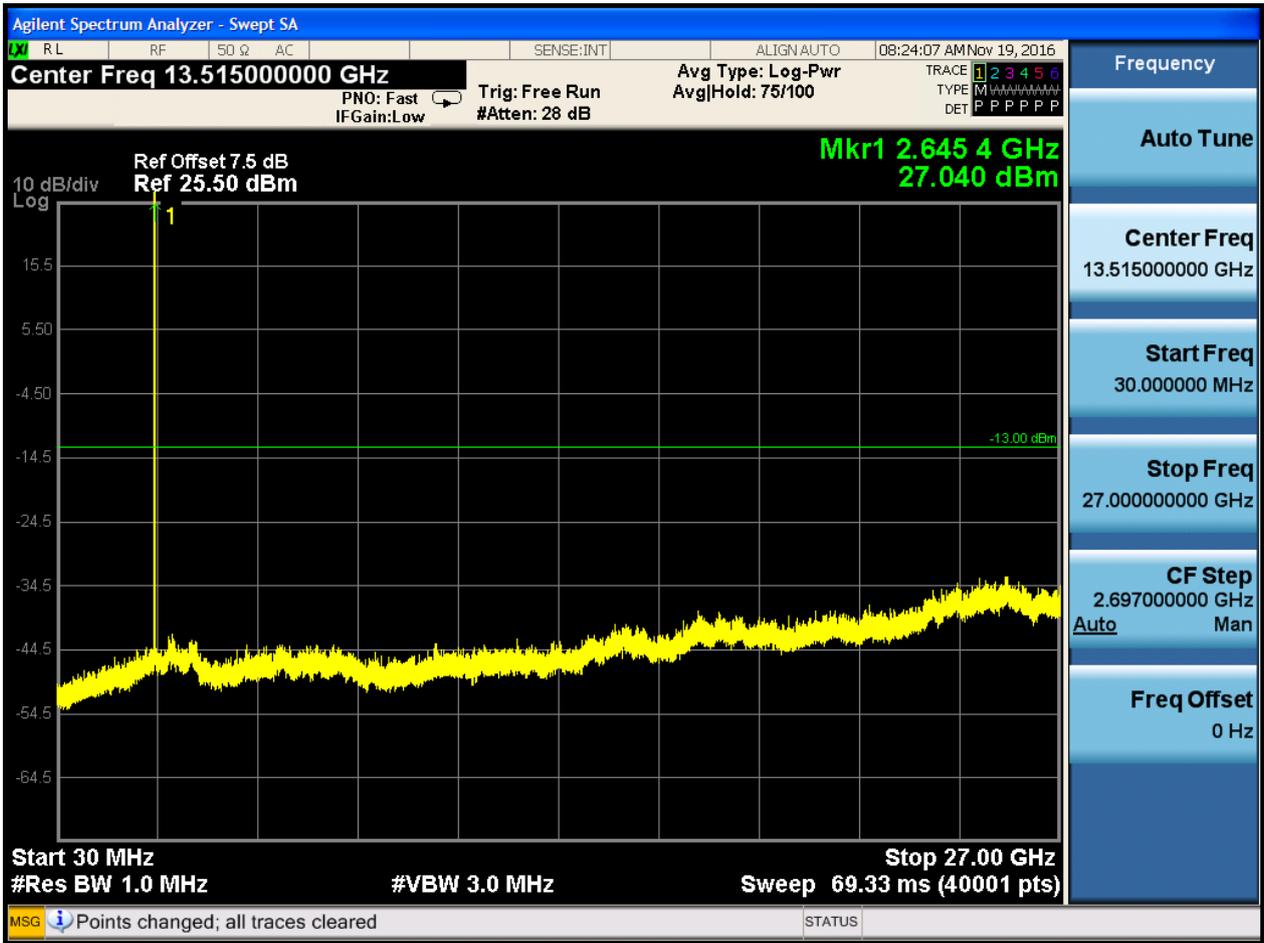


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





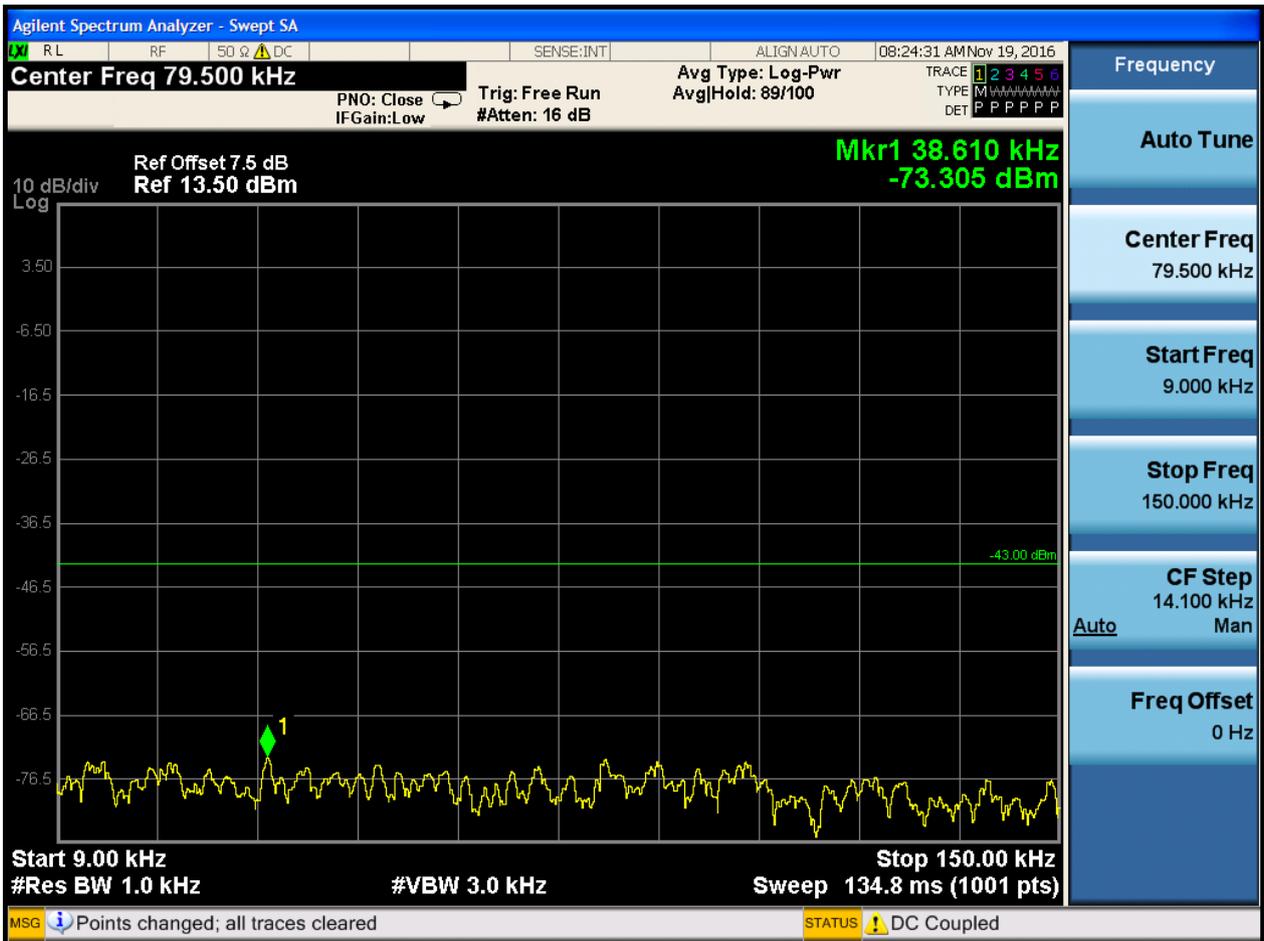




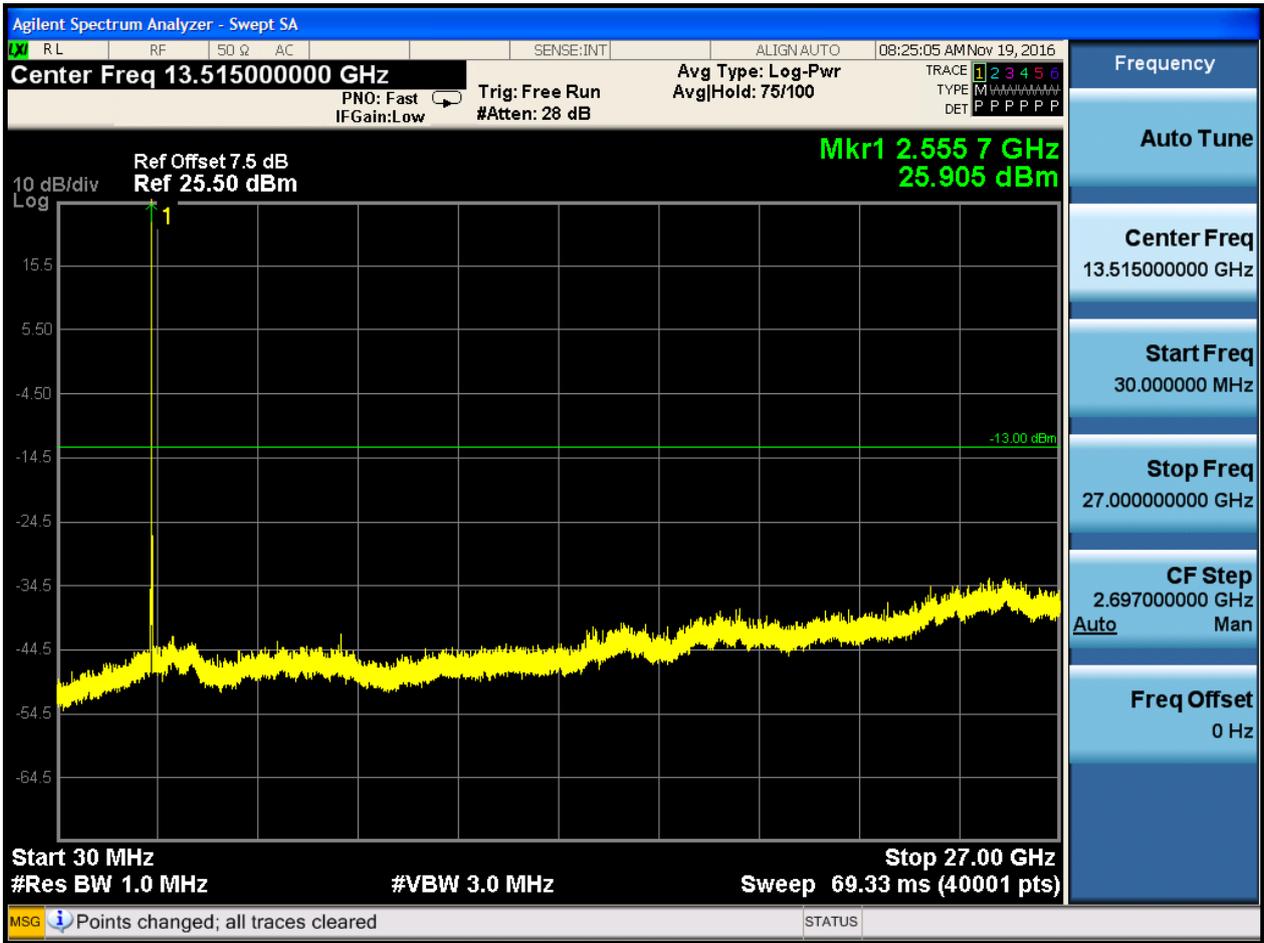
6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



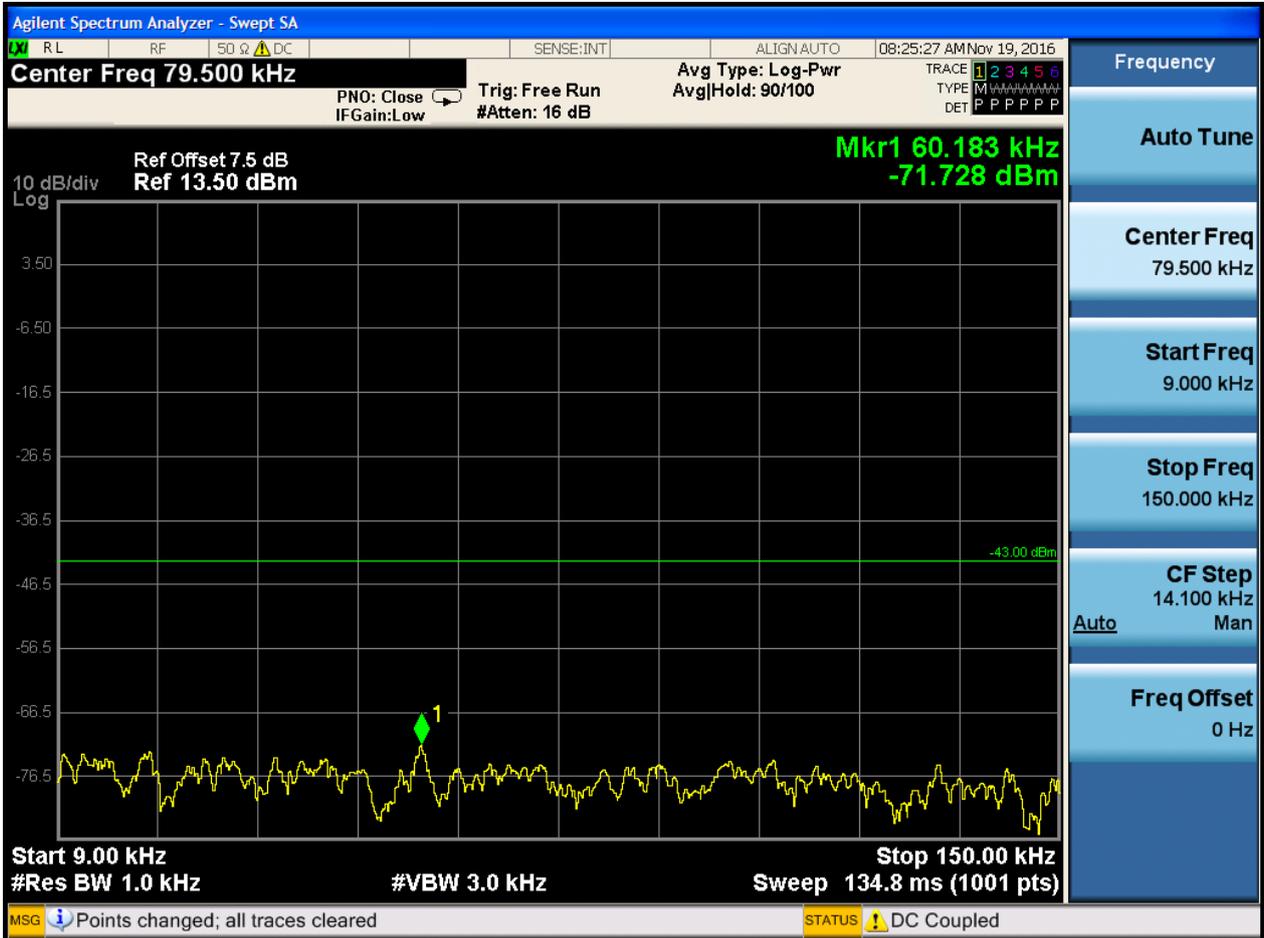


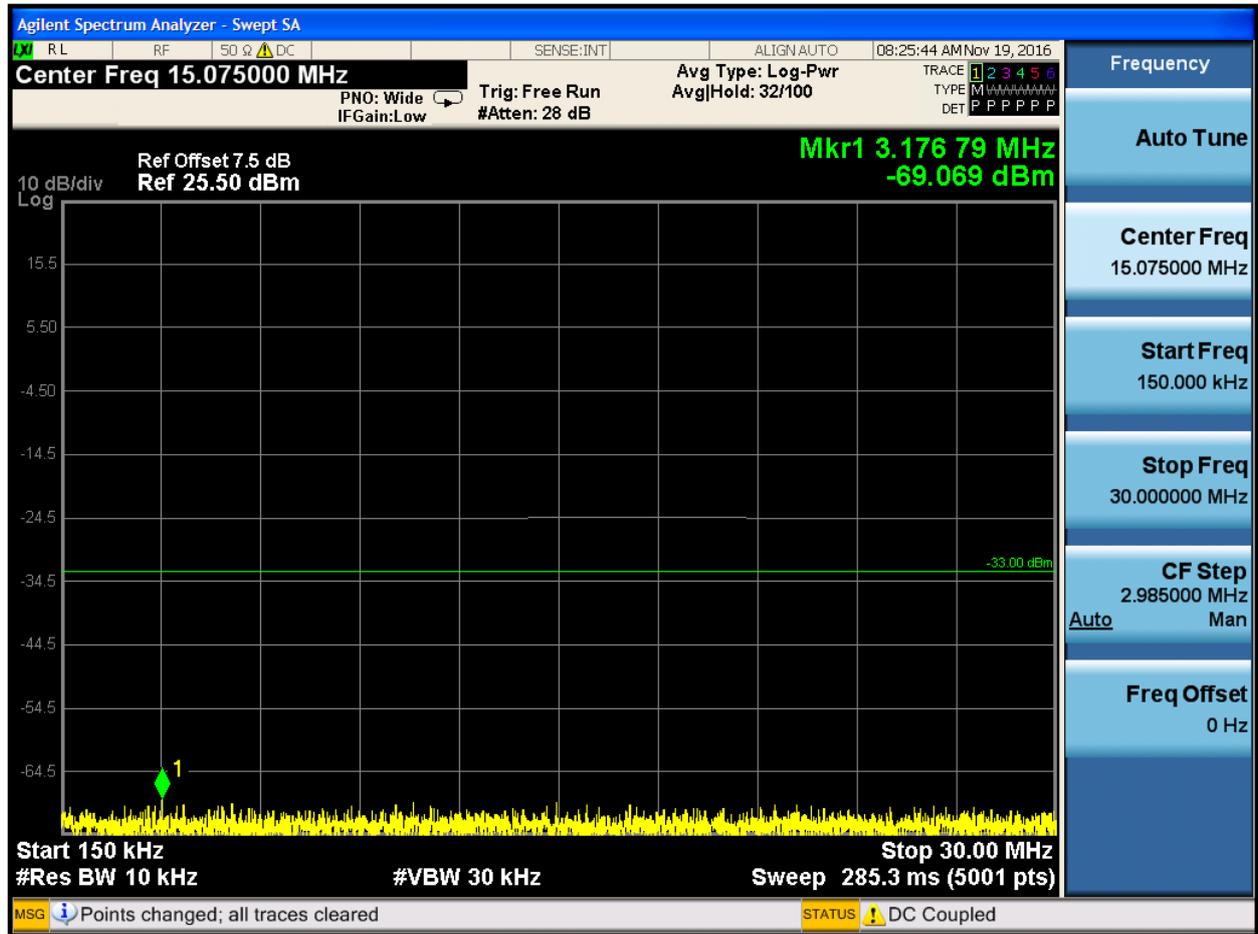


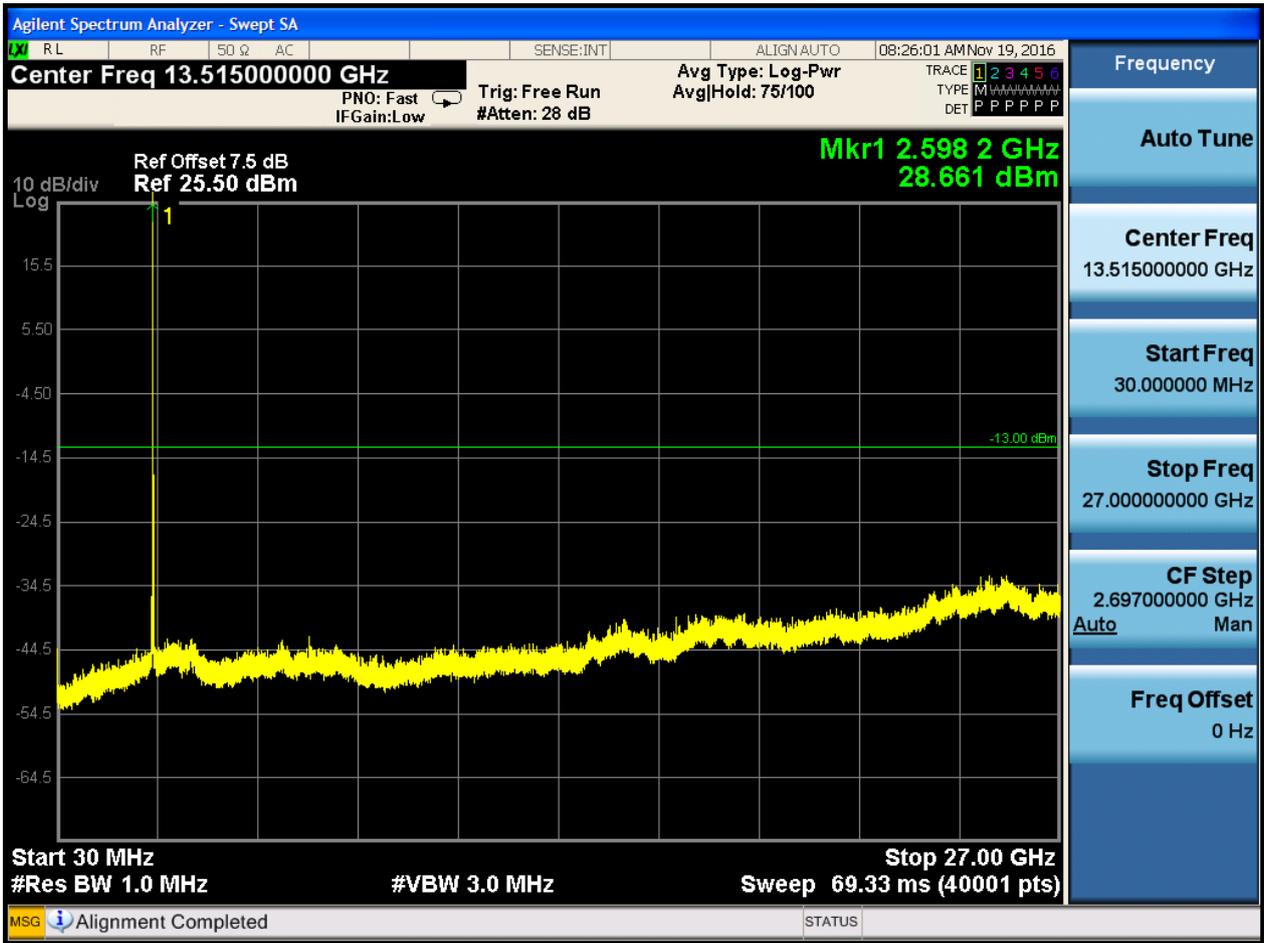


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

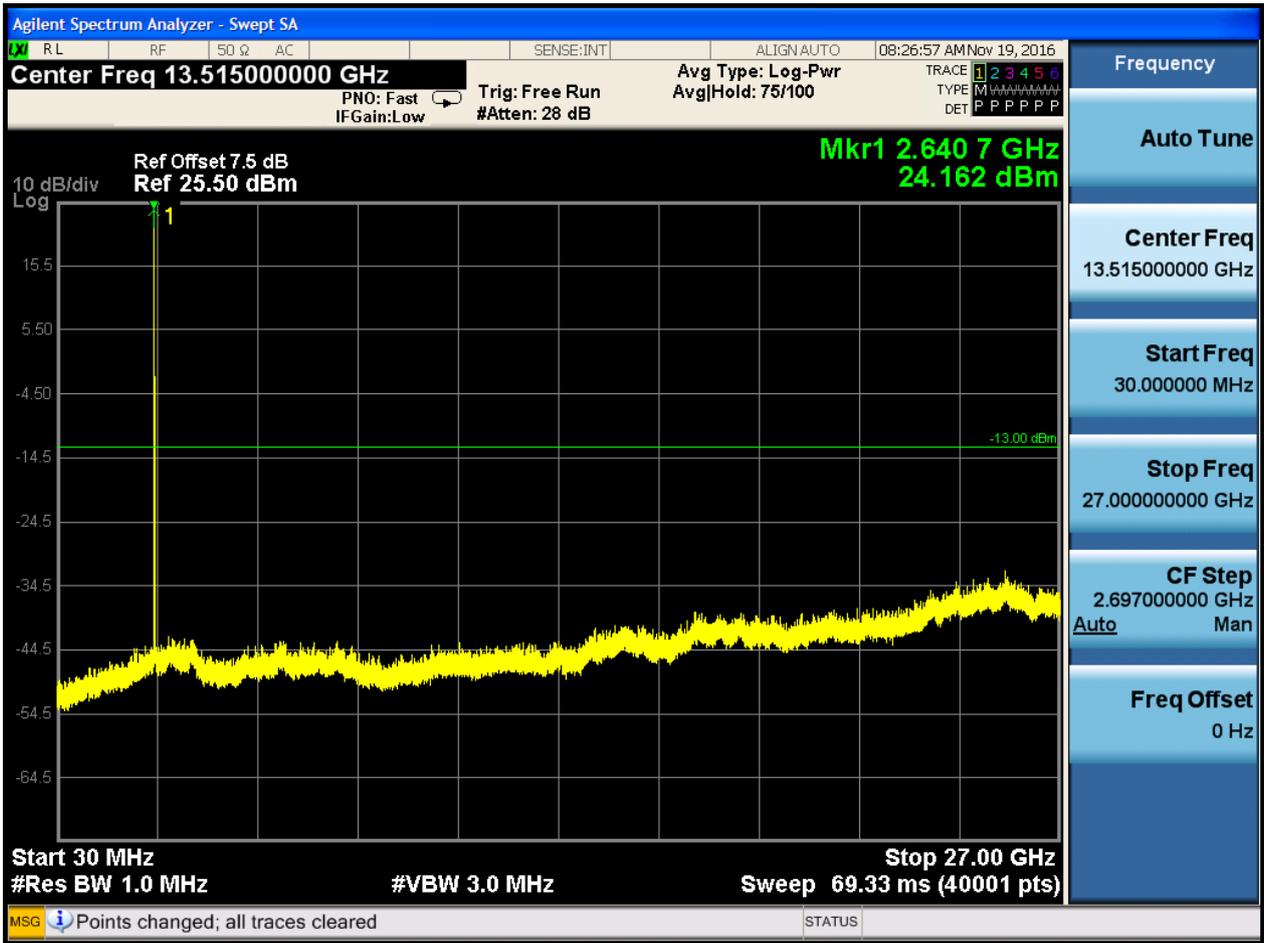










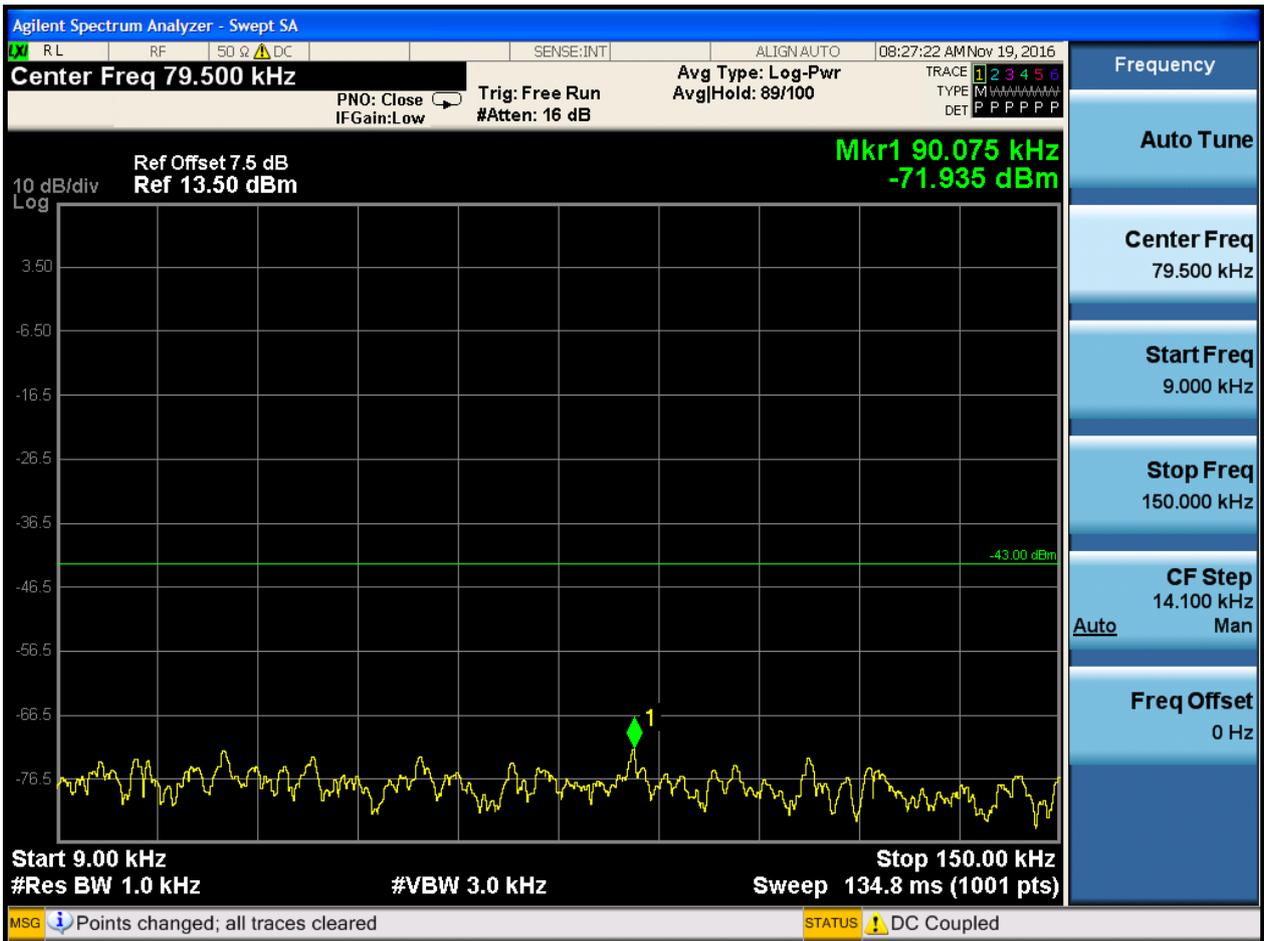




6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



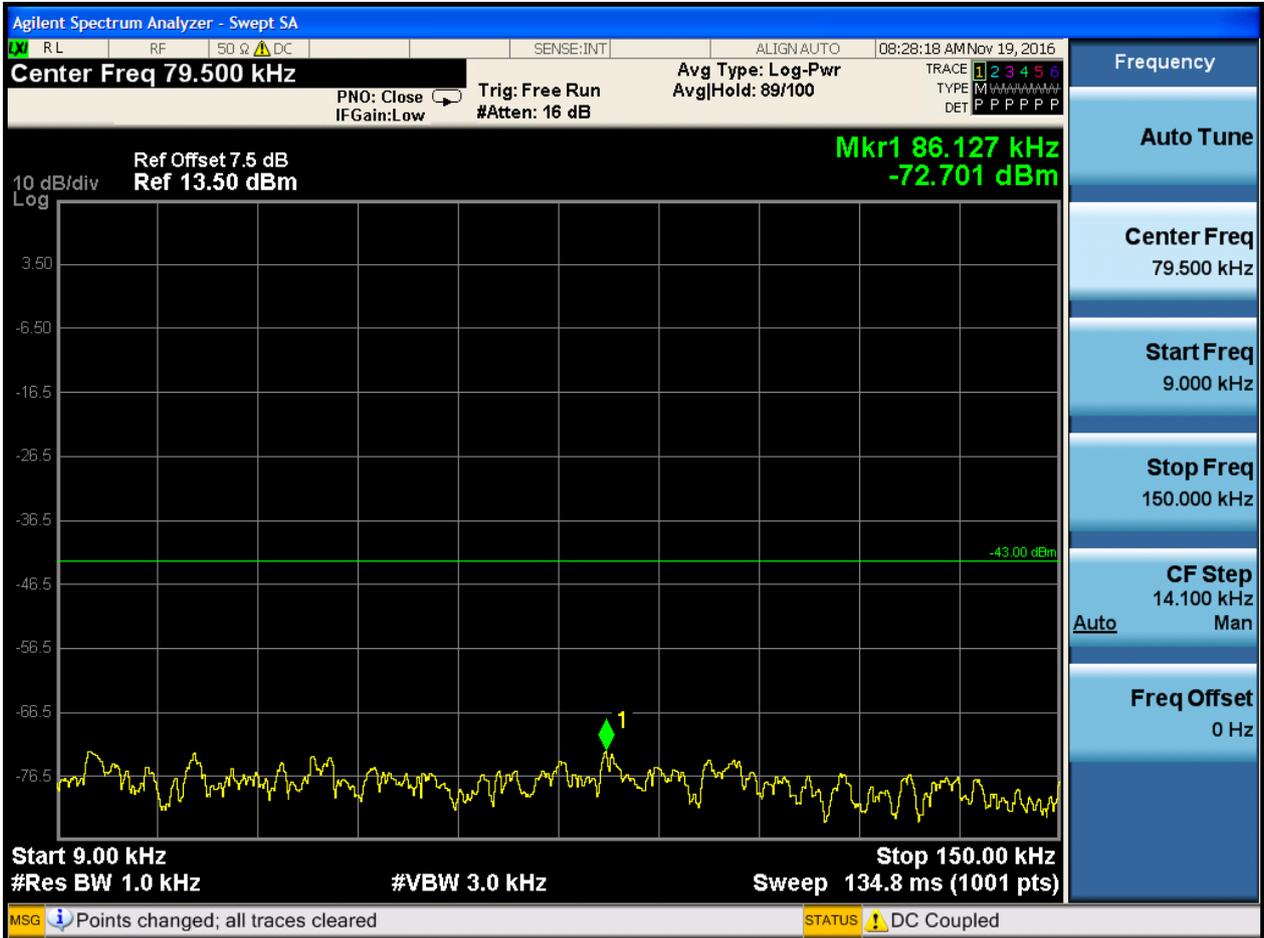






6.1.1.2.4.2 Test Channel = MCH

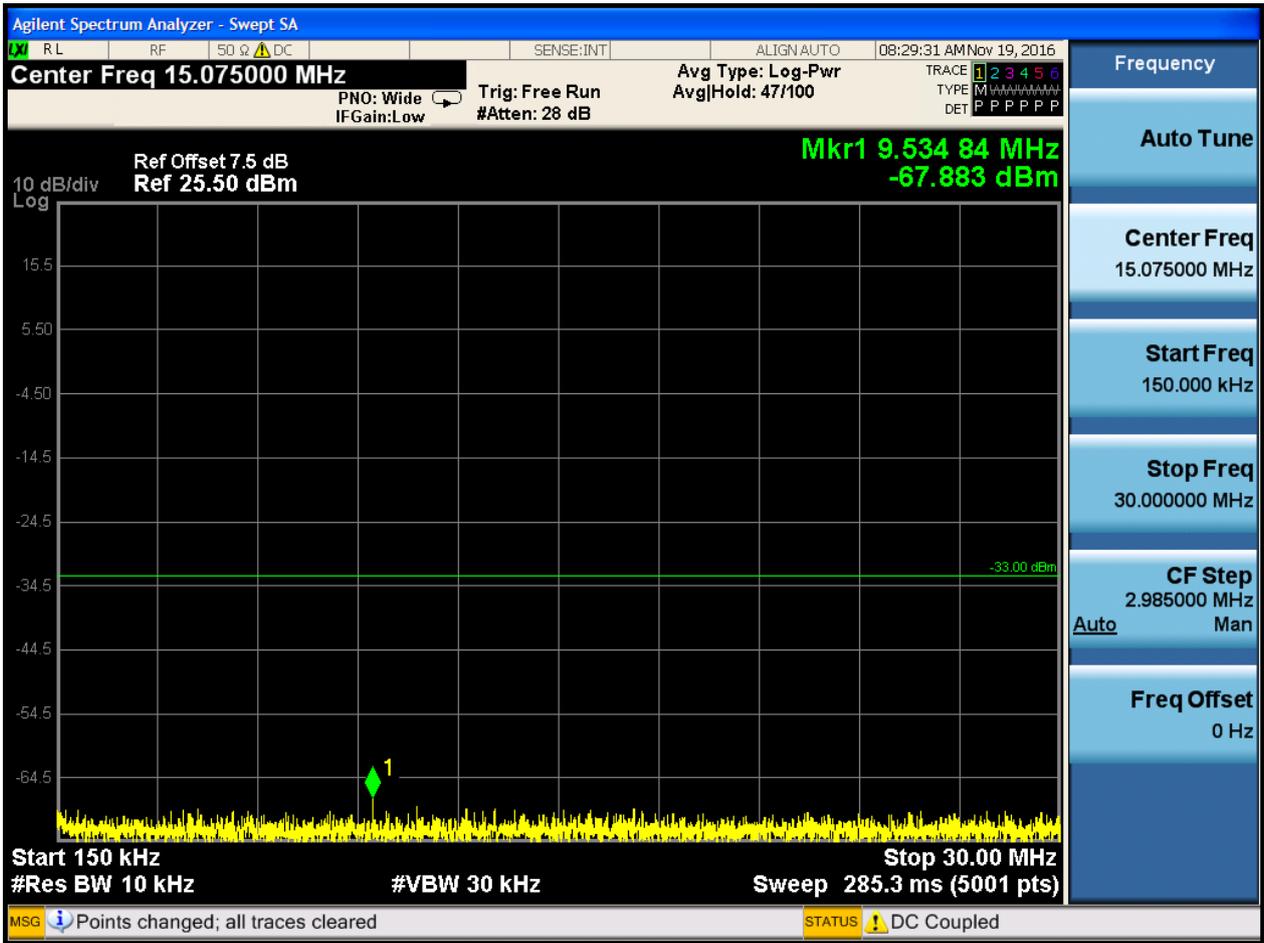
6.1.1.2.4.2.1 Test RB = RB1#0

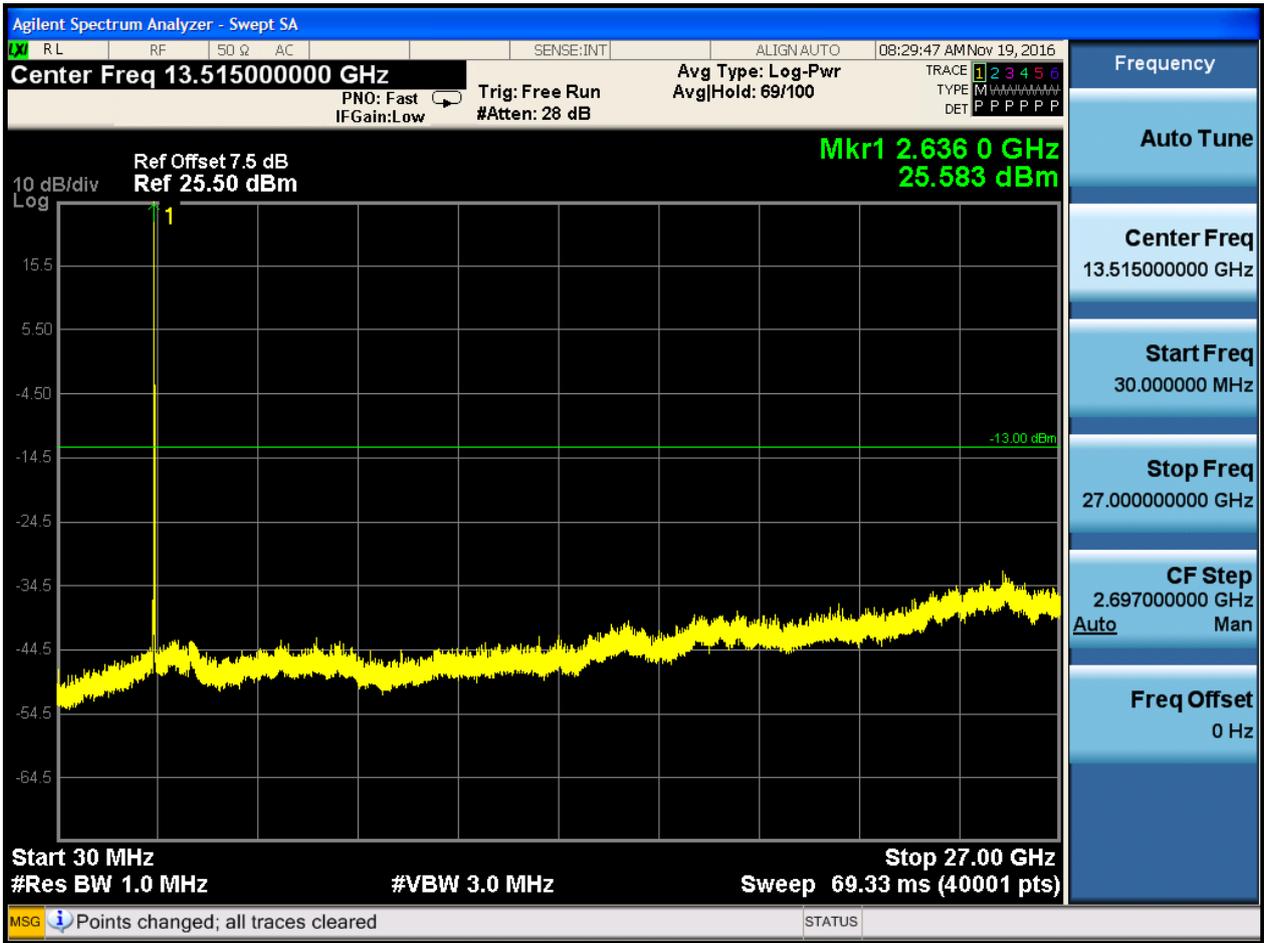












## 7Appendix\_G: Field Strength of Spurious Radiation

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

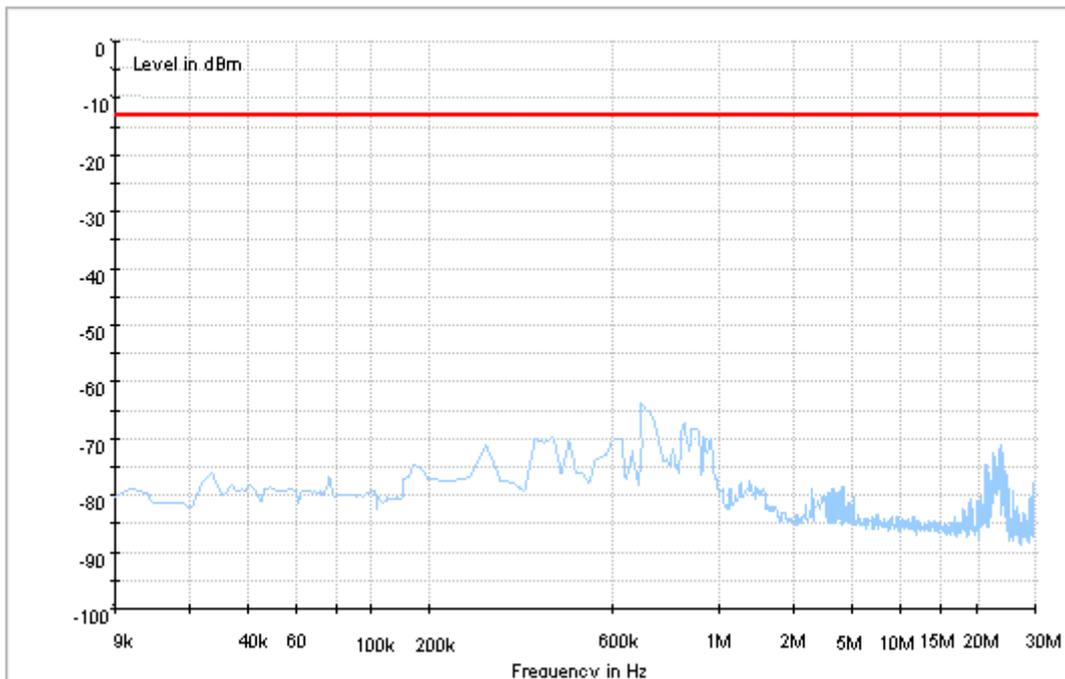
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

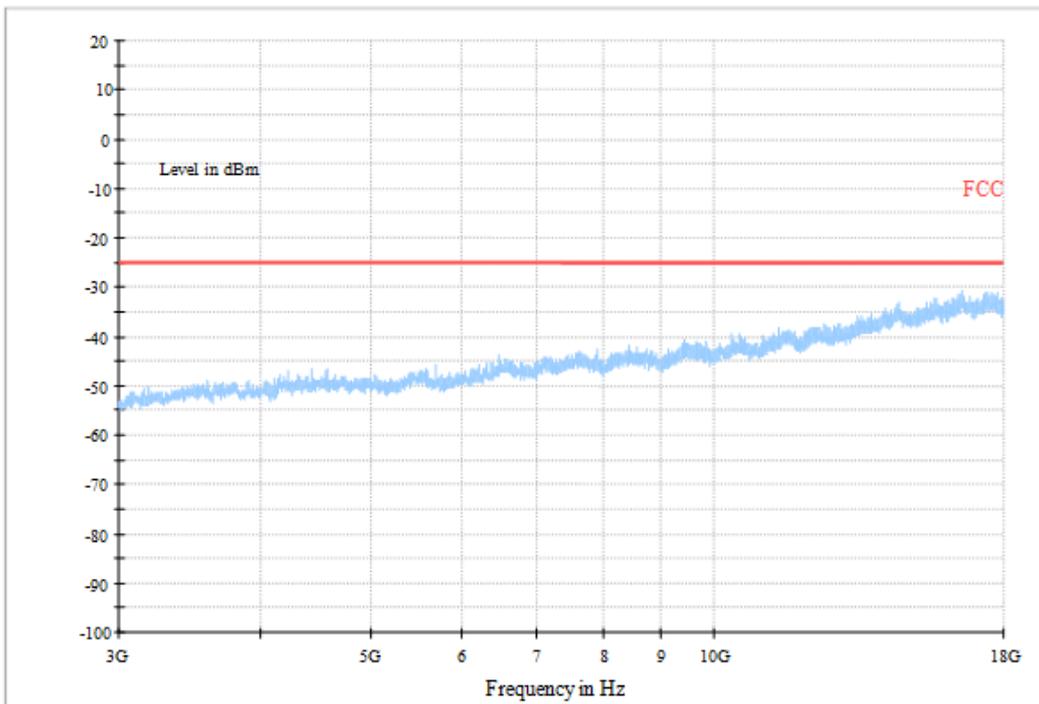
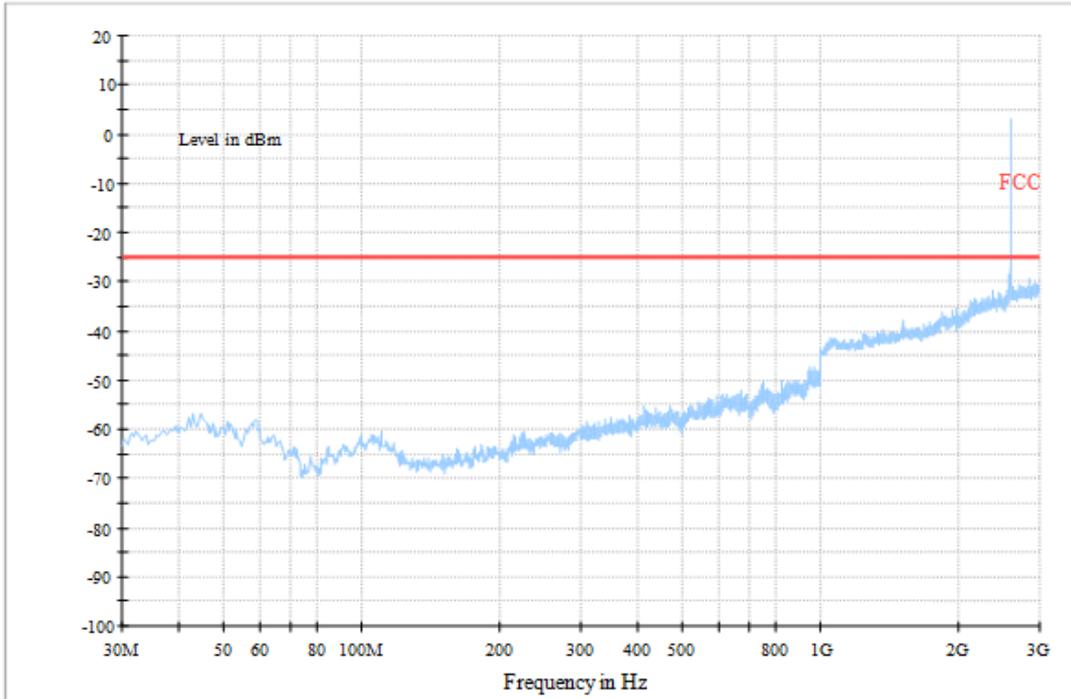
### Part I - Test Plots

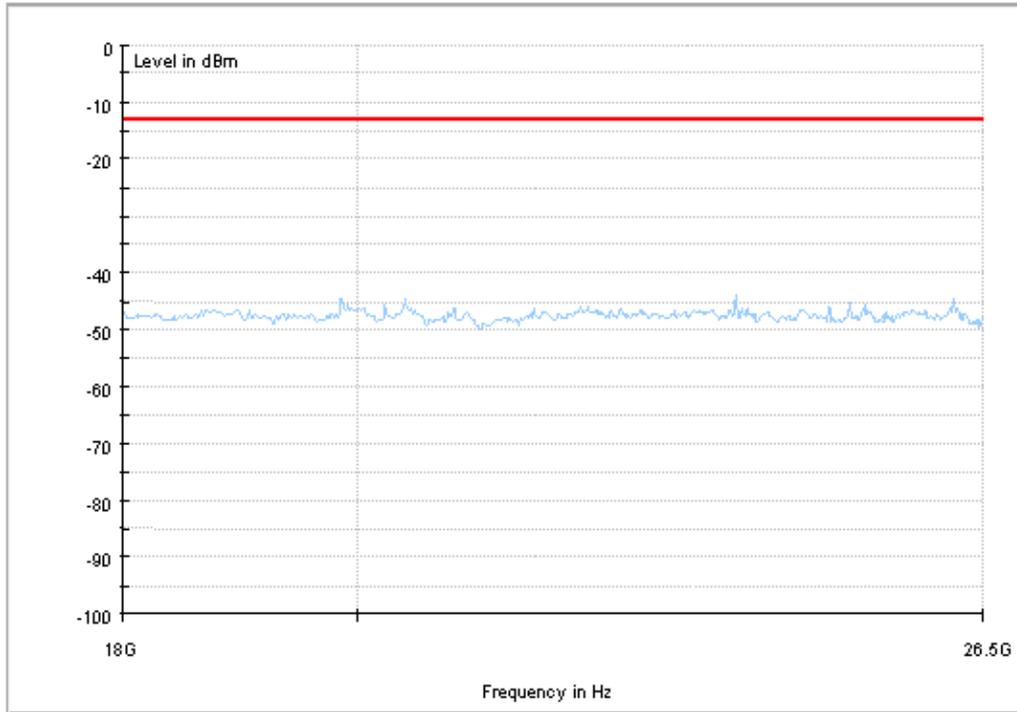
#### 7.1 For LTE

##### 7.1.1 Test Band = BAND41\_Ant1

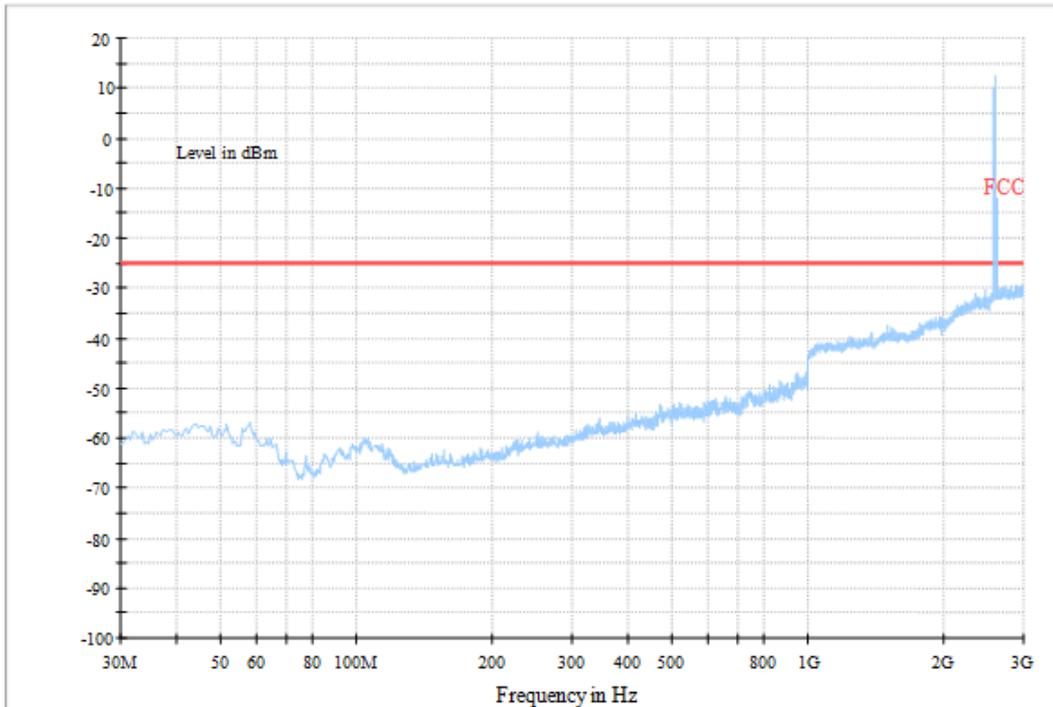
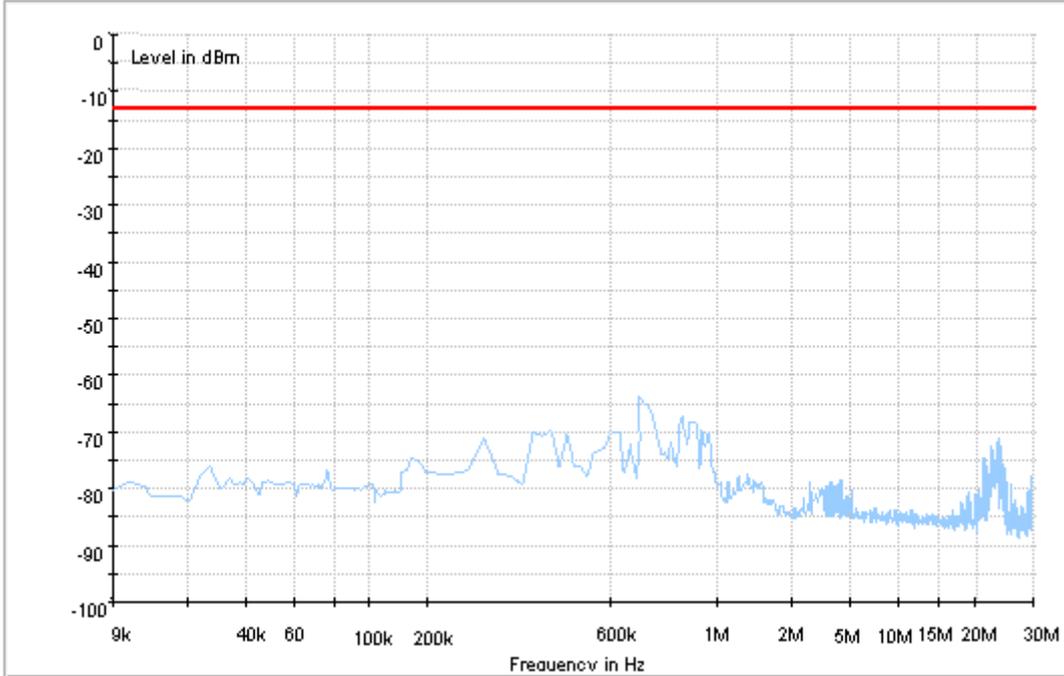
##### 7.1.1.1 Test Bandwidth = 5

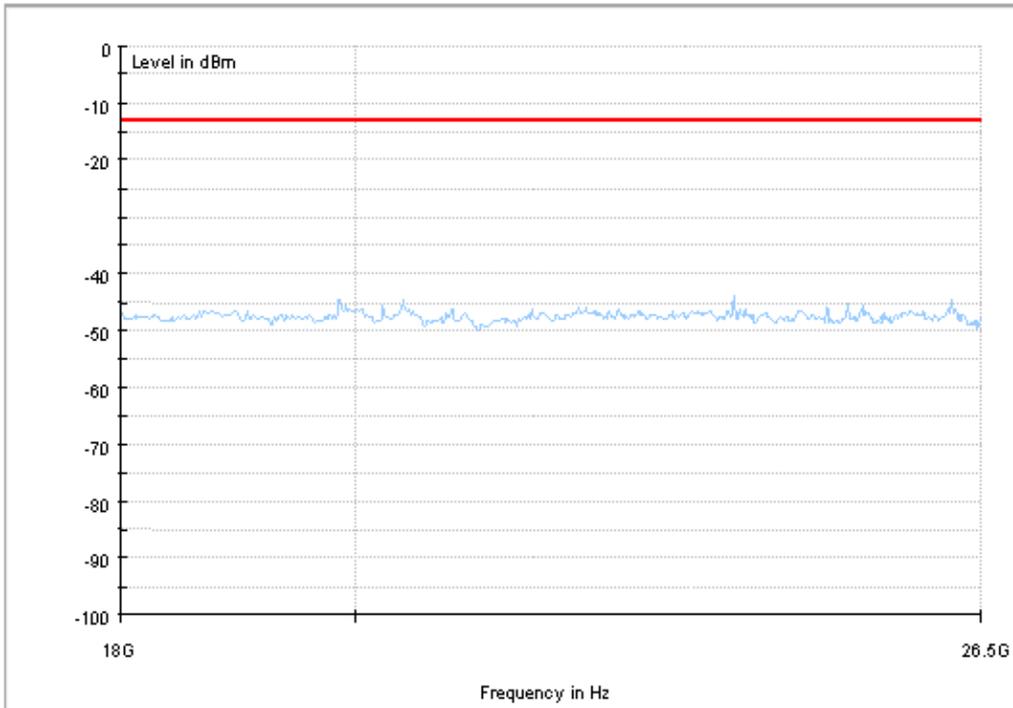
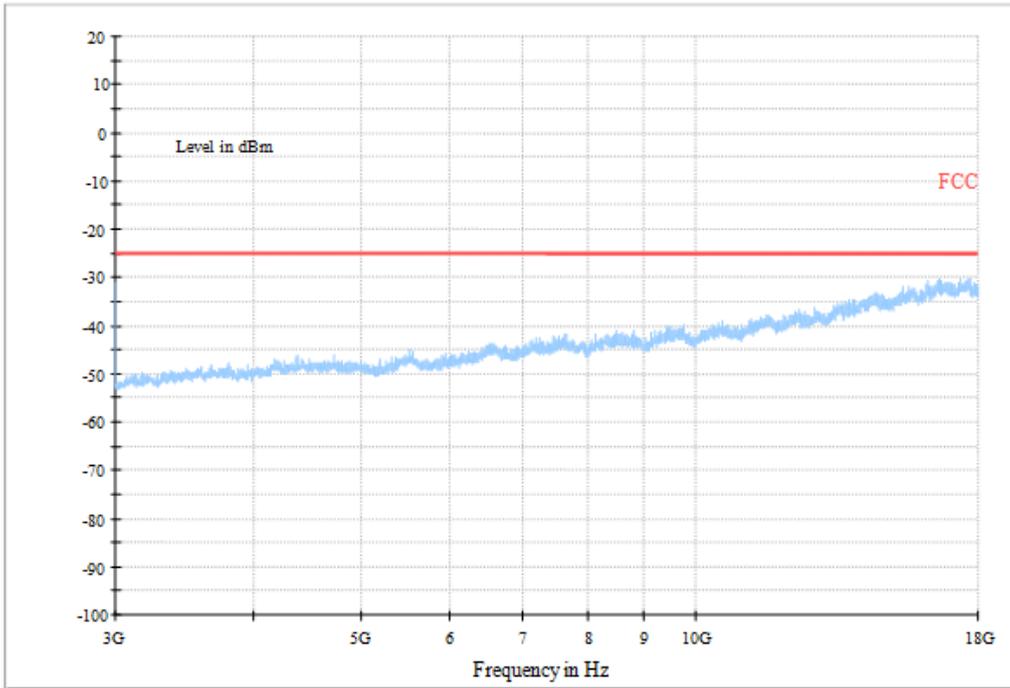






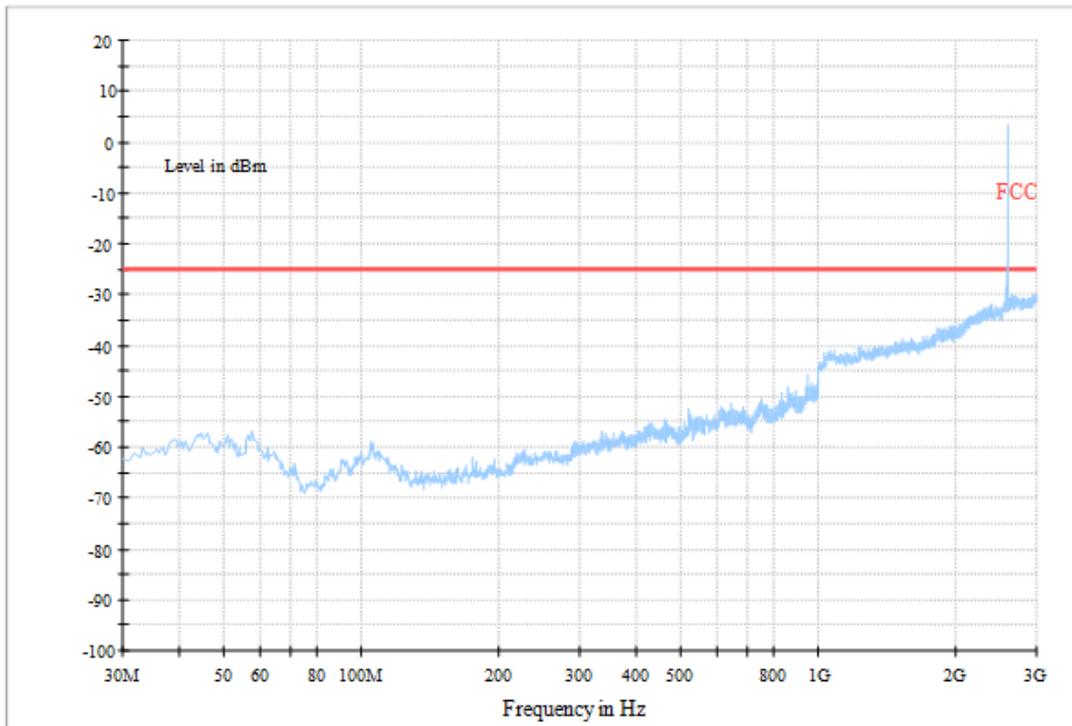
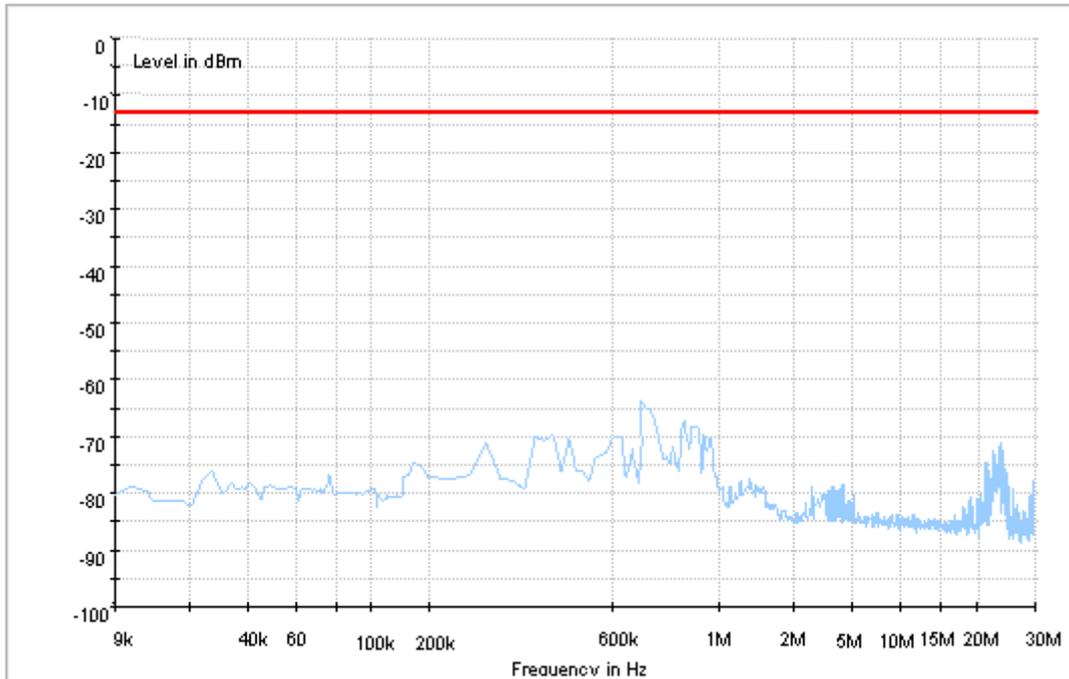
### 7.1.1.2 Test Bandwidth = 20

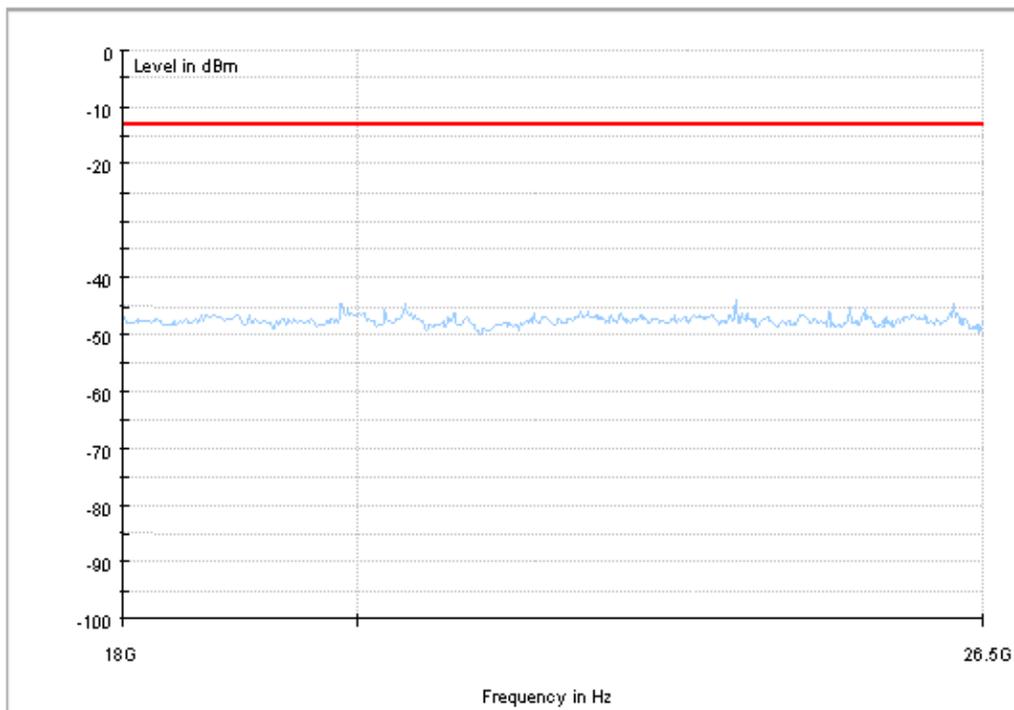
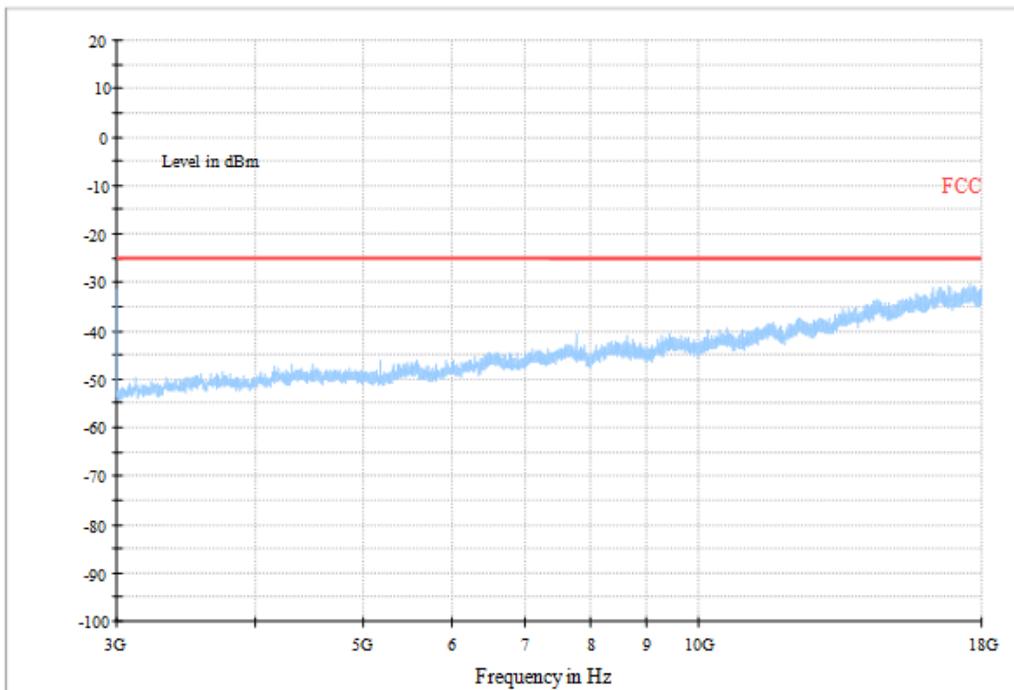




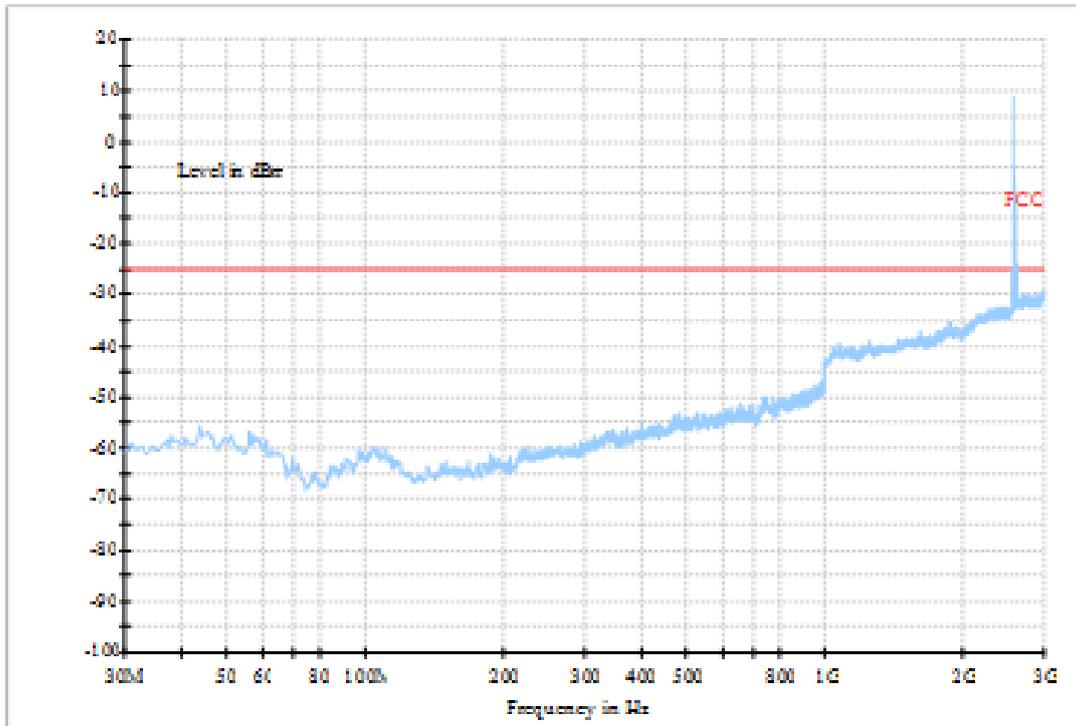
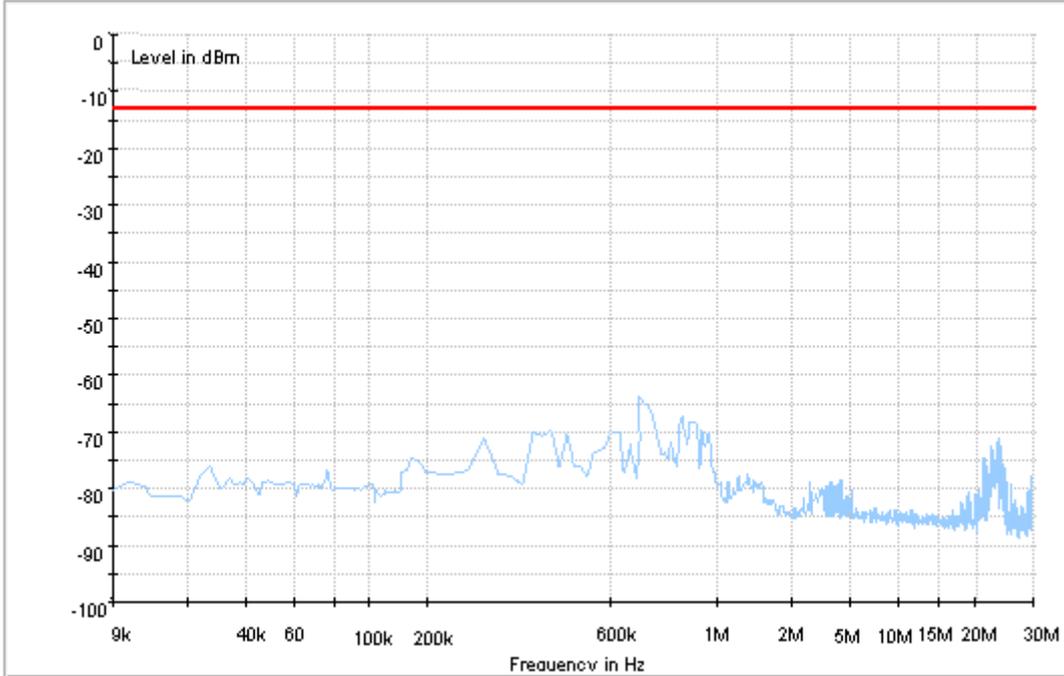
## 7.1.2 Test Band = BAND41\_Ant2

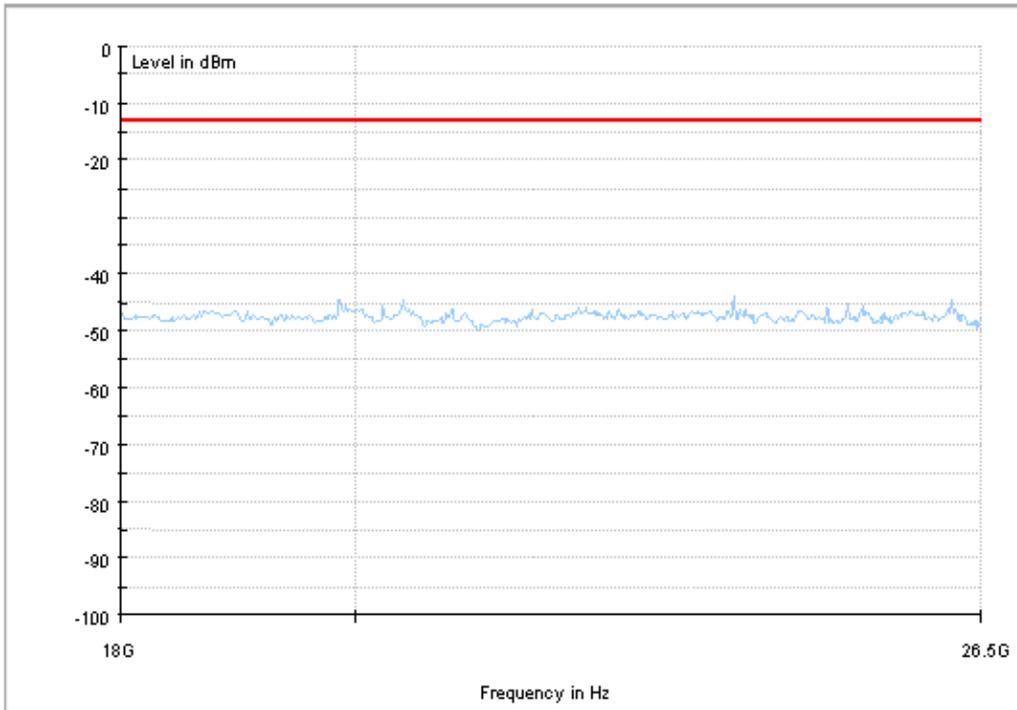
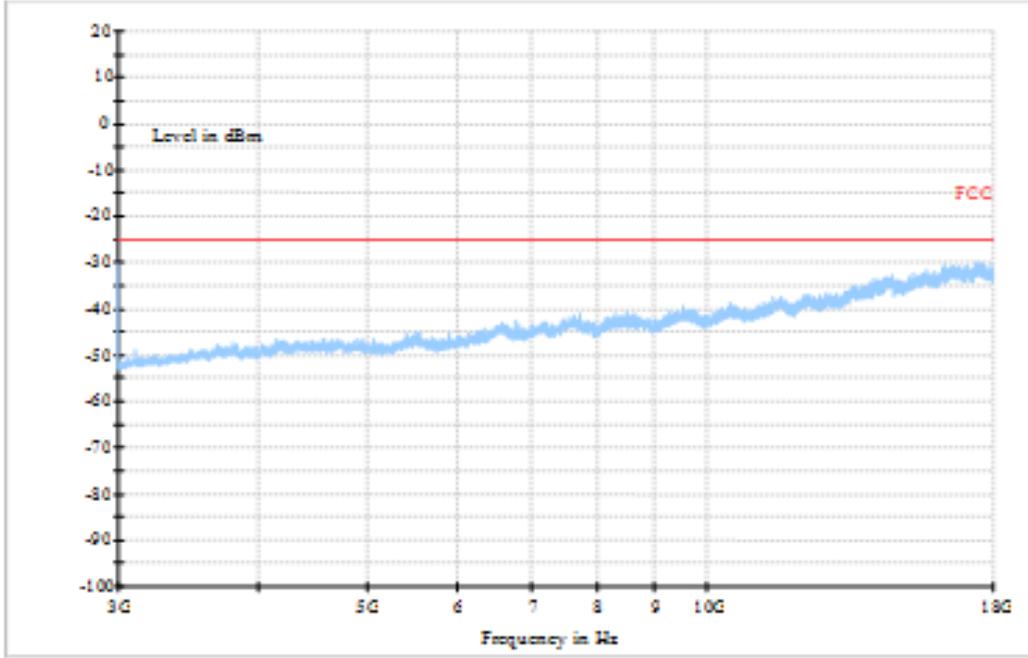
### 7.1.2.1 Test Bandwidth = 5





### 7.1.2.2 Test Bandwidth = 20





## 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
BAND41	LTE/TM1	5	LCH	TN	VL	-9.44	-0.00369	PASS
					VN	-6.91	-0.0027	PASS
					VH	-1.89	-0.00074	PASS
			MCH	TN	VL	-7.32	-0.00281	PASS
					VN	-6.79	-0.00261	PASS
					VH	-47.66	-0.0183	PASS
			HCH	TN	VL	-8.07	-0.00304	PASS
					VN	-11.00	-0.00415	PASS
					VH	-8.25	-0.00311	PASS
		10	LCH	TN	VL	-22.79	-0.0089	PASS
					VN	-9.54	-0.00373	PASS
					VH	-16.58	-0.00648	PASS
			MCH	TN	VL	-10.43	-0.004	PASS
					VN	-15.71	-0.00603	PASS
					VH	-22.49	-0.00863	PASS
			HCH	TN	VL	-16.31	-0.00615	PASS
					VN	-27.74	-0.01047	PASS
					VH	-25.18	-0.0095	PASS
		15	LCH	TN	VL	-2.20	-0.00086	PASS
					VN	-0.20	-0.00008	PASS
					VH	-5.98	-0.00233	PASS
			MCH	TN	VL	-6.78	-0.0026	PASS
					VN	-3.32	-0.00127	PASS
					VH	-40.13	-0.0154	PASS
			HCH	TN	VL	-11.50	-0.00434	PASS
					VN	-8.34	-0.00315	PASS
					VH	-8.87	-0.00335	PASS
		20	LCH	TN	VL	-2.03	-0.00079	PASS
					VN	-1.90	-0.00074	PASS
					VH	-2.19	-0.00085	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	-3.93	-0.00151	PASS
					VN	-4.31	-0.00165	PASS
					VH	-2.59	-0.00099	PASS
			HCH	TN	VL	-7.35	-0.00278	PASS
					VN	-7.75	-0.00293	PASS
					VH	-11.37	-0.0043	PASS
		5	LCH	TN	VL	-8.14	-0.00318	PASS
					VN	-63.43	-0.0248	PASS
					VH	-87.13	-0.03407	PASS
			MCH	TN	VL	-76.52	-0.02937	PASS
					VN	-72.70	-0.02791	PASS
					VH	-30.93	-0.01187	PASS
			HCH	TN	VL	-12.89	-0.00486	PASS
					VN	-9.84	-0.00371	PASS
					VH	-13.82	-0.00521	PASS
		10	LCH	TN	VL	-9.33	-0.00364	PASS
					VN	-15.08	-0.00589	PASS
					VH	-33.52	-0.01309	PASS
			MCH	TN	VL	-35.96	-0.0138	PASS
					VN	-22.14	-0.0085	PASS
					VH	-20.26	-0.00778	PASS
			HCH	TN	VL	-14.78	-0.00558	PASS
					VN	-32.00	-0.01208	PASS
					VH	-6.18	-0.00233	PASS
		15	LCH	TN	VL	-22.82	-0.00891	PASS
					VN	1.65	0.00064	PASS
					VH	-23.07	-0.009	PASS
			MCH	TN	VL	-0.16	-0.00006	PASS
					VN	-1.46	-0.00056	PASS
					VH	-3.48	-0.00134	PASS
			HCH	TN	VL	-19.40	-0.00733	PASS
					VN	-8.65	-0.00327	PASS
					VH	-7.18	-0.00271	PASS
		20	LCH	TN	VL	-2.65	-0.00103	PASS
					VN	0.54	0.00021	PASS
					VH	-6.21	-0.00242	PASS
			MCH	TN	VL	-3.45	-0.00132	PASS
					VN	-1.92	-0.00074	PASS
					VH	-5.69	-0.00218	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	-4.88	-0.00184	PASS
					VN	-6.65	-0.00251	PASS
					VH	-7.02	-0.00265	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
BAND41	LTE/TM1	5	LCH	VN	-30	-7.94	-0.0031	PASS
					-20	-5.42	-0.00212	PASS
					-10	-9.77	-0.00382	PASS
					0	-9.31	-0.00364	PASS
					10	-8.94	-0.0035	PASS
					20	-10.30	-0.00403	PASS
					30	-9.23	-0.00361	PASS
					40	-8.11	-0.00317	PASS
					50	-13.19	-0.00516	PASS
			MCH	VN	-30	-32.00	-0.01228	PASS
					-20	-119.22	-0.04577	PASS
					-10	-5.01	-0.00192	PASS
					0	-5.62	-0.00216	PASS
					10	-64.17	-0.02463	PASS
					20	-4.25	-0.00163	PASS
					30	-34.00	-0.01305	PASS
					40	-77.25	-0.02965	PASS
					50	-35.29	-0.01355	PASS
			HCH	VN	-30	-64.13	-0.02418	PASS
					-20	-6.05	-0.00228	PASS
					-10	-9.88	-0.00372	PASS
					0	-8.96	-0.00338	PASS
					10	-51.68	-0.01948	PASS
					20	-9.01	-0.0034	PASS
		30			-39.58	-0.01492	PASS	
		40			-12.15	-0.00458	PASS	
		50			-10.96	-0.00413	PASS	
		10	LCH	VN	-30	-0.21	-0.00008	PASS
					-20	-3.12	-0.00122	PASS
					-10	-4.49	-0.00175	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					0	-5.75	-0.00225	PASS		
					10	-3.69	-0.00144	PASS		
					20	-5.06	-0.00198	PASS		
					30	-0.80	-0.00031	PASS		
					40	-31.07	-0.01214	PASS		
					50	-3.92	-0.00153	PASS		
			MCH	VN	-30	-20.77	-0.00797	PASS		
					-20	-17.74	-0.00681	PASS		
					-10	-19.30	-0.00741	PASS		
					0	-26.95	-0.01035	PASS		
					10	-24.96	-0.00958	PASS		
					20	-28.41	-0.01091	PASS		
					30	-9.93	-0.00381	PASS		
			HCH	VN	40	-24.22	-0.0093	PASS		
					50	-18.98	-0.00729	PASS		
					-30	-20.54	-0.00775	PASS		
					-20	-11.07	-0.00418	PASS		
					-10	-31.64	-0.01194	PASS		
					0	-21.47	-0.0081	PASS		
					10	-24.45	-0.00923	PASS		
					20	-11.43	-0.00431	PASS		
		15	LCH	VN	30	-31.86	-0.01202	PASS		
					40	-26.78	-0.01011	PASS		
					50	-15.16	-0.00572	PASS		
					-30	-6.32	-0.00247	PASS		
					-20	-5.51	-0.00215	PASS		
					-10	-4.12	-0.00161	PASS		
					0	-4.85	-0.00189	PASS		
					10	-2.26	-0.00088	PASS		
			MCH	VN	20	0.53	0.00021	PASS		
					30	-8.37	-0.00327	PASS		
					40	-9.10	-0.00355	PASS		
		50			-6.08	-0.00237	PASS			
		-30			-1.92	-0.00074	PASS			
							-20	-0.01	0	PASS
							-10	-1.49	-0.00057	PASS
							0	-0.96	-0.00037	PASS
							10	-6.02	-0.00231	PASS
							20	-2.13	-0.00082	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					30	-4.99	-0.00192	PASS			
					40	-4.22	-0.00162	PASS			
					50	-6.81	-0.00261	PASS			
			HCH	VN	-30	-7.64	-0.00289	PASS			
					-20	-10.03	-0.00379	PASS			
					-10	-10.23	-0.00386	PASS			
					0	-7.21	-0.00272	PASS			
					10	-9.23	-0.00349	PASS			
					20	-5.19	-0.00196	PASS			
					30	-34.48	-0.01302	PASS			
					40	-10.66	-0.00403	PASS			
					50	-5.34	-0.00202	PASS			
					20	LCH	VN	-30	-2.25	-0.00088	PASS
								-20	-4.63	-0.00181	PASS
								-10	-3.81	-0.00149	PASS
		0	-5.04	-0.00196				PASS			
		10	0.04	0.00002				PASS			
		20	-3.32	-0.00129				PASS			
		30	-2.79	-0.00109				PASS			
		40	-5.51	-0.00215				PASS			
		50	-2.43	-0.00095				PASS			
		MCH	VN	-30		-2.59	-0.00099	PASS			
				-20		-7.02	-0.00269	PASS			
				-10		-7.08	-0.00272	PASS			
				0		-4.71	-0.00181	PASS			
				10		-4.26	-0.00164	PASS			
				20		-6.49	-0.00249	PASS			
		HCH	VN	30	-5.55	-0.00213	PASS				
				40	-5.68	-0.00218	PASS				
				50	-5.42	-0.00208	PASS				
				-30	-5.97	-0.00226	PASS				
				-20	-7.25	-0.00274	PASS				
				-10	-8.84	-0.00334	PASS				
				0	-6.92	-0.00262	PASS				
				10	-9.73	-0.00368	PASS				
				20	-11.66	-0.00441	PASS				
		30	-8.77	-0.00332	PASS						
		40	-10.00	-0.00378	PASS						
		50	-7.32	-0.00277	PASS						

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	5	LCH	VN	-30	-6.27	-0.00245	PASS
					-20	-9.20	-0.0036	PASS
					-10	-3.59	-0.0014	PASS
					0	-8.41	-0.00329	PASS
					10	-5.11	-0.002	PASS
					20	-11.59	-0.00453	PASS
					30	-16.28	-0.00637	PASS
					40	-71.51	-0.02796	PASS
					50	-8.83	-0.00345	PASS
			MCH	VN	-30	-1.83	-0.0007	PASS
					-20	-5.36	-0.00206	PASS
					-10	-46.78	-0.01796	PASS
					0	-8.20	-0.00315	PASS
					10	-4.86	-0.00187	PASS
					20	-8.91	-0.00342	PASS
					30	-9.96	-0.00382	PASS
					40	-84.79	-0.03255	PASS
					50	-57.98	-0.02226	PASS
		HCH	VN	-30	-8.54	-0.00322	PASS	
				-20	-57.12	-0.02153	PASS	
				-10	-12.79	-0.00482	PASS	
				0	-12.65	-0.00477	PASS	
				10	-10.60	-0.004	PASS	
				20	-70.75	-0.02667	PASS	
				30	-11.26	-0.00425	PASS	
				40	-9.61	-0.00362	PASS	
				50	-9.58	-0.00361	PASS	
		10	LCH	VN	-30	-27.47	-0.01073	PASS
					-20	-14.09	-0.0055	PASS
					-10	-21.04	-0.00822	PASS
					0	-14.45	-0.00564	PASS
					10	-5.35	-0.00209	PASS
					20	-32.70	-0.01277	PASS
					30	-19.83	-0.00775	PASS
			MCH	VN	-30	-20.67	-0.00793	PASS
					-20	-23.67	-0.00909	PASS
					-10	-16.48	-0.00633	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-8.25	-0.00317	PASS
					10	-16.51	-0.00634	PASS
					20	-21.29	-0.00817	PASS
					30	-15.34	-0.00589	PASS
					40	-9.16	-0.00352	PASS
					50	-26.08	-0.01001	PASS
			HCH	VN	-30	-5.08	-0.00192	PASS
					-20	-12.73	-0.0048	PASS
					-10	-15.46	-0.00583	PASS
					0	-24.93	-0.00941	PASS
					10	-6.58	-0.00248	PASS
					20	-16.92	-0.00638	PASS
					30	-25.86	-0.00976	PASS
					40	-13.15	-0.00496	PASS
		LCH	VN	50	-29.18	-0.01101	PASS	
				-30	2.63	0.00103	PASS	
				-20	-6.31	-0.00246	PASS	
				-10	-5.92	-0.00231	PASS	
				0	-6.45	-0.00252	PASS	
				10	-1.83	-0.00071	PASS	
				20	-4.86	-0.0019	PASS	
				30	-22.99	-0.00897	PASS	
				40	-9.81	-0.00383	PASS	
				50	-4.71	-0.00184	PASS	
		MCH	VN	-30	-4.61	-0.00177	PASS	
				-20	-33.80	-0.01298	PASS	
				-10	-3.45	-0.00132	PASS	
				0	-39.11	-0.01501	PASS	
				10	-4.86	-0.00187	PASS	
				20	-30.01	-0.01152	PASS	
				30	-6.08	-0.00233	PASS	
				40	-2.83	-0.00109	PASS	
		HCH	VN	50	-37.69	-0.01447	PASS	
				-30	-11.59	-0.00438	PASS	
				-20	-7.88	-0.00298	PASS	
				-10	-7.82	-0.00295	PASS	
				0	-6.91	-0.00261	PASS	
				10	-10.11	-0.00382	PASS	
		20	-6.64	-0.00251	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-9.00	-0.0034	PASS		
					40	-7.80	-0.00295	PASS		
					50	-4.12	-0.00156	PASS		
				20	LCH	VN	-30	-1.80	-0.0007	PASS
							-20	-2.40	-0.00094	PASS
							-10	-3.99	-0.00156	PASS
							0	-4.51	-0.00176	PASS
							10	-3.22	-0.00126	PASS
							20	-7.44	-0.0029	PASS
							30	-1.82	-0.00071	PASS
							40	-3.55	-0.00138	PASS
							50	-3.50	-0.00136	PASS
					MCH	VN	-30	-3.55	-0.00136	PASS
							-20	-8.83	-0.00339	PASS
							-10	-5.82	-0.00223	PASS
							0	-4.23	-0.00162	PASS
							10	-5.18	-0.00199	PASS
							20	-6.87	-0.00264	PASS
							30	-6.74	-0.00259	PASS
							40	-5.99	-0.0023	PASS
							50	-5.09	-0.00195	PASS
					HCH	VN	-30	-6.68	-0.00253	PASS
							-20	-11.06	-0.00418	PASS
							-10	-7.31	-0.00276	PASS
							0	-8.96	-0.00339	PASS
							10	-10.56	-0.00399	PASS
							20	-10.24	-0.00387	PASS
							30	-10.14	-0.00383	PASS
40	-7.52						-0.00284	PASS		
50	-9.43				-0.00357	PASS				

END