

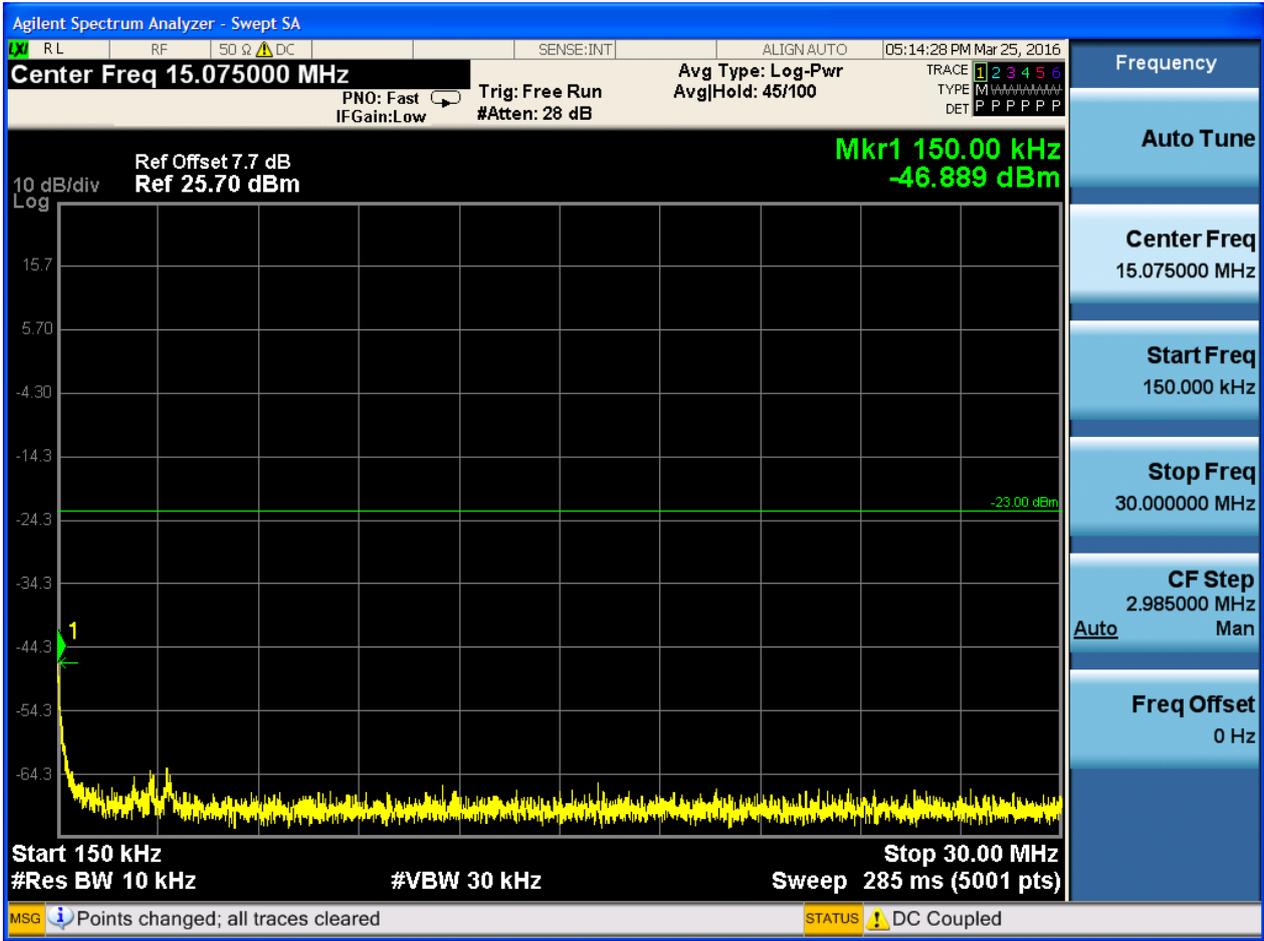


6.1.1.1.2 Test Bandwidth = 3

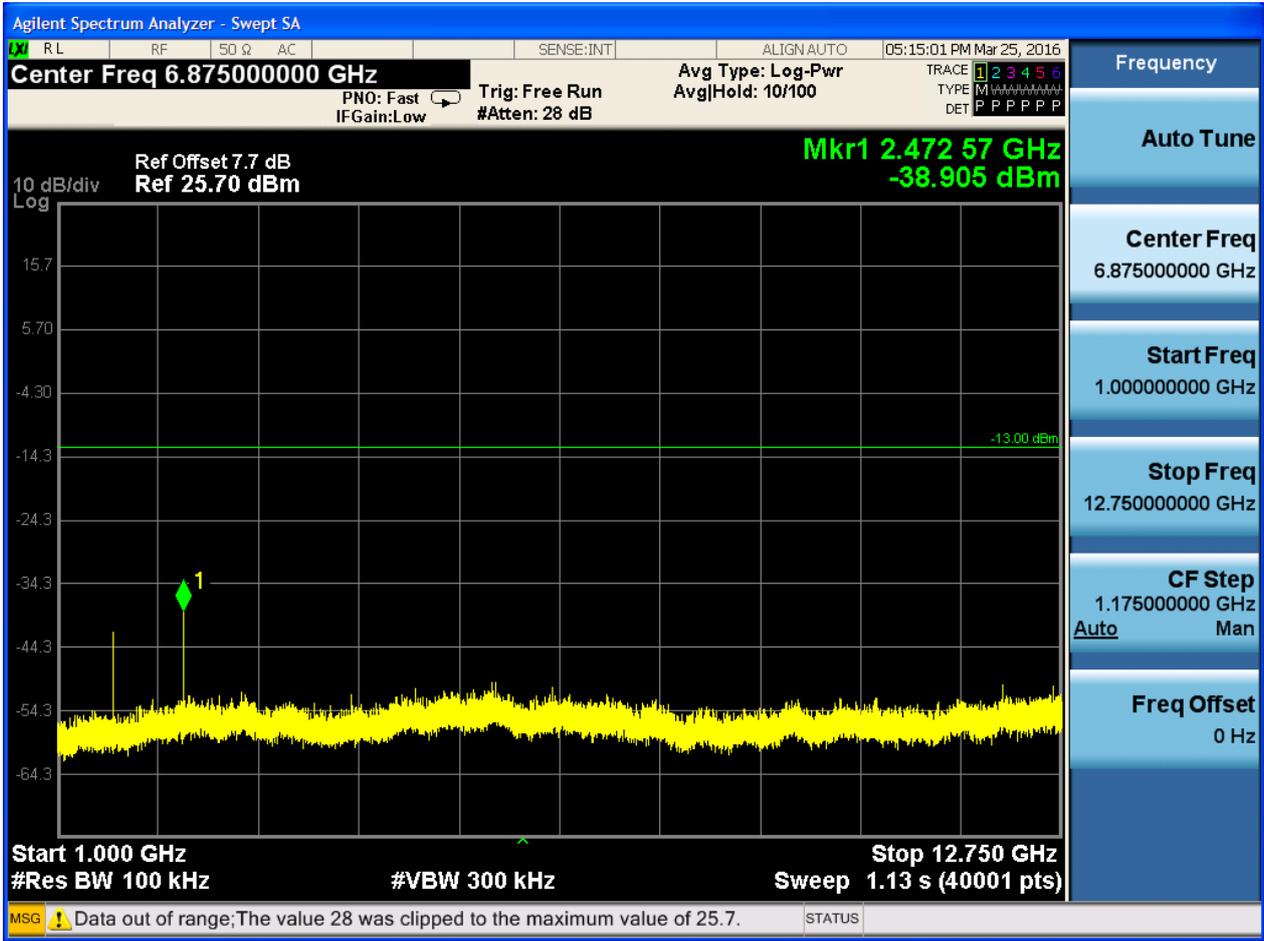
6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0









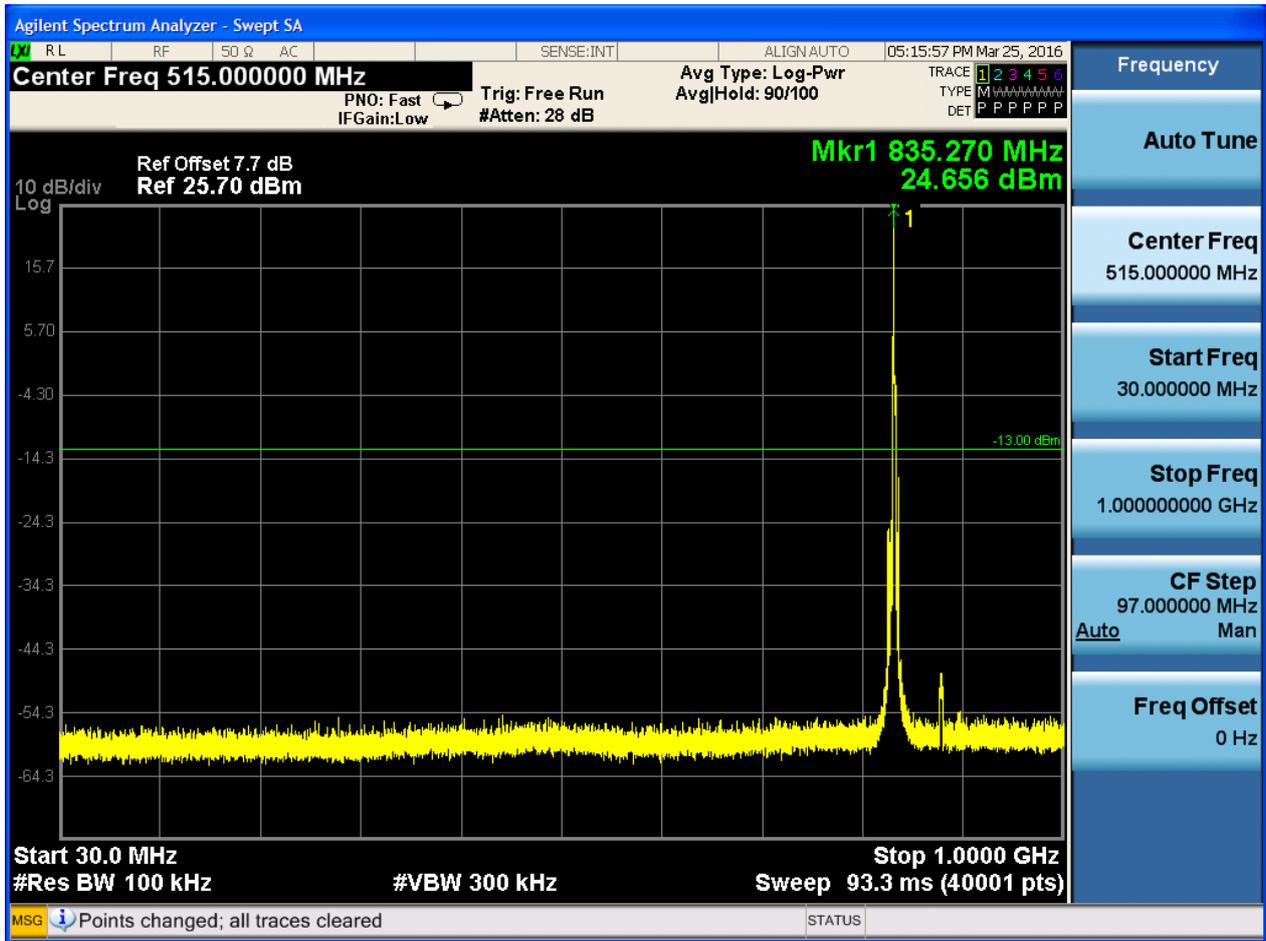


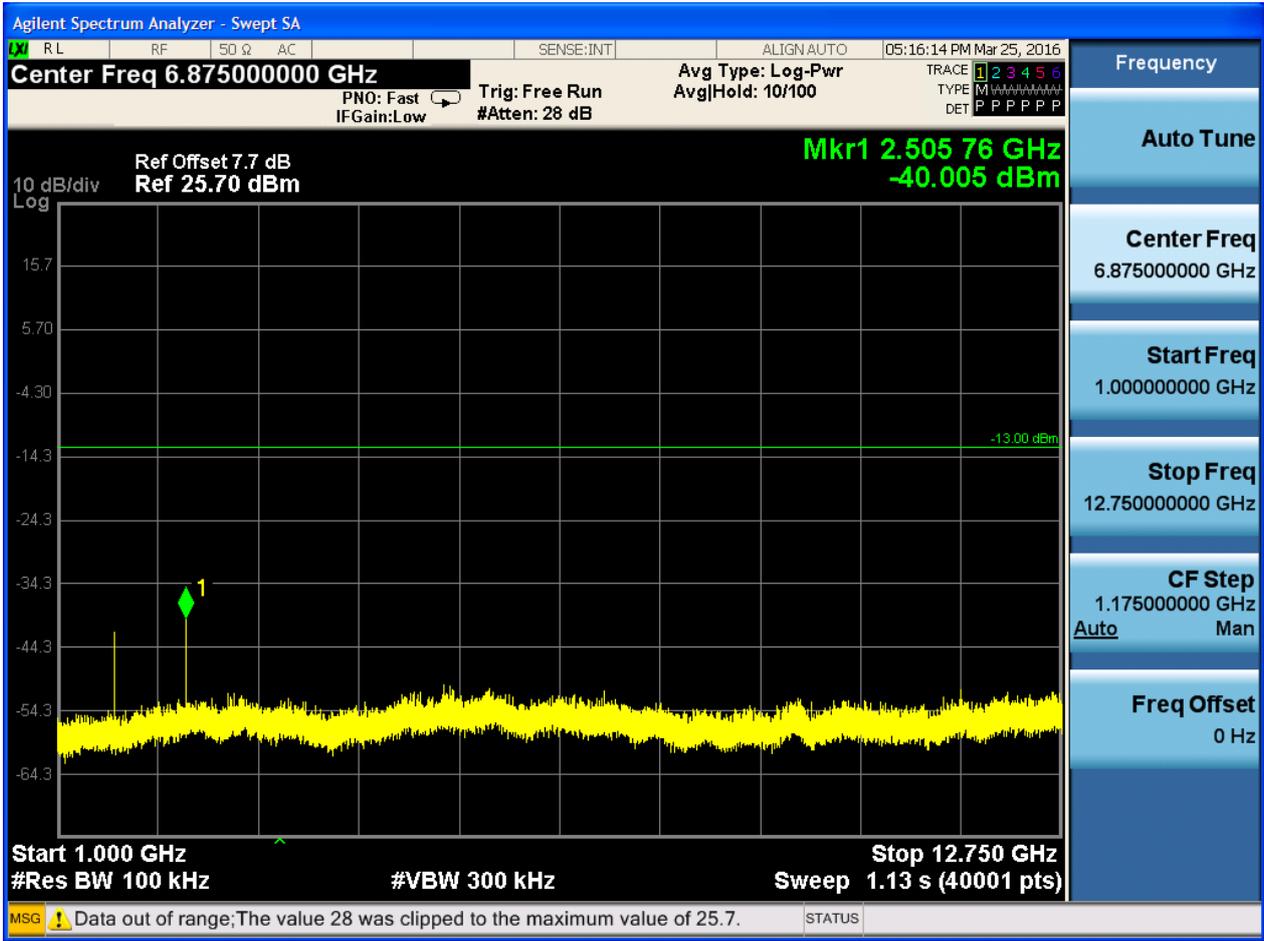
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0







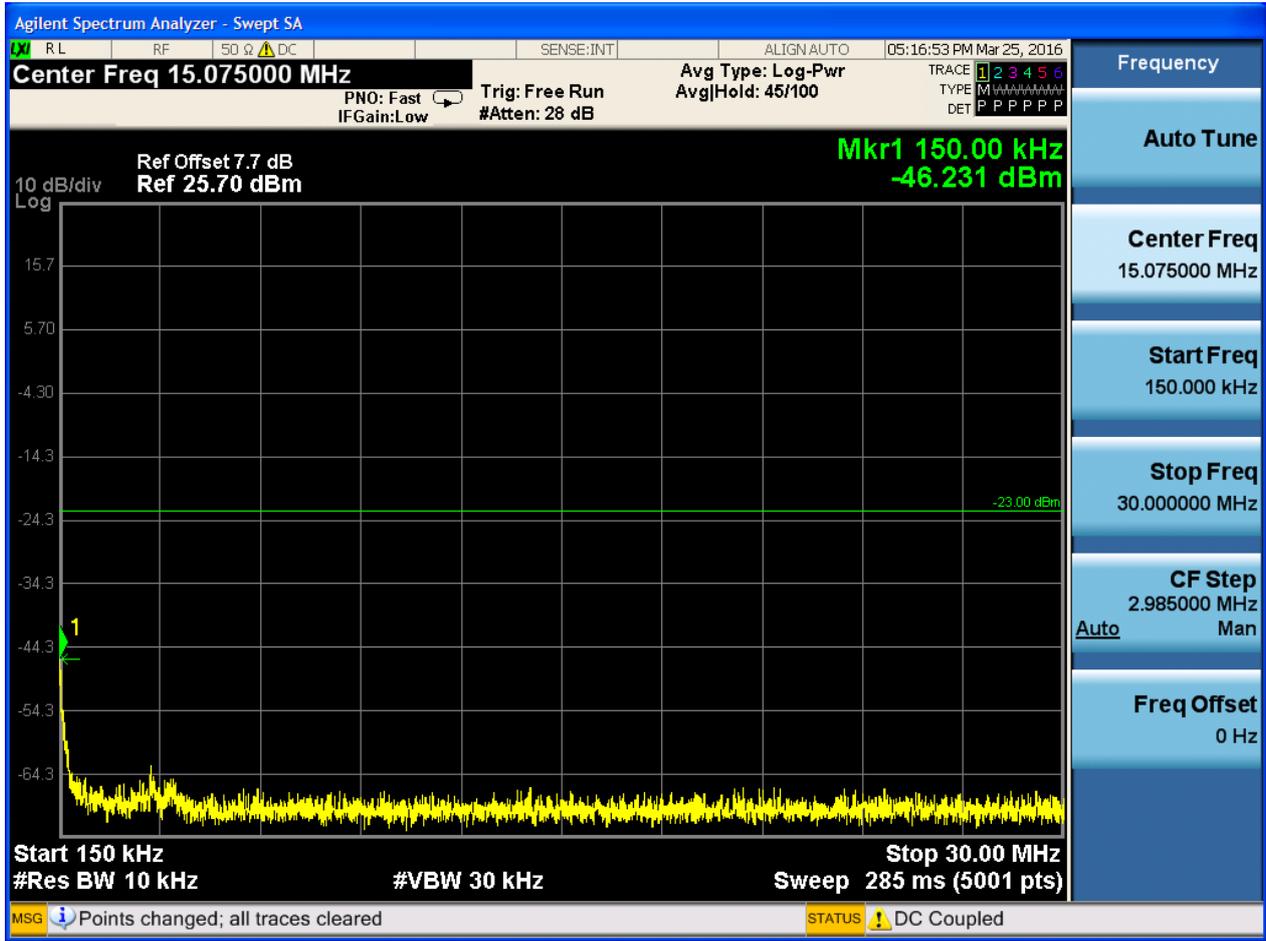


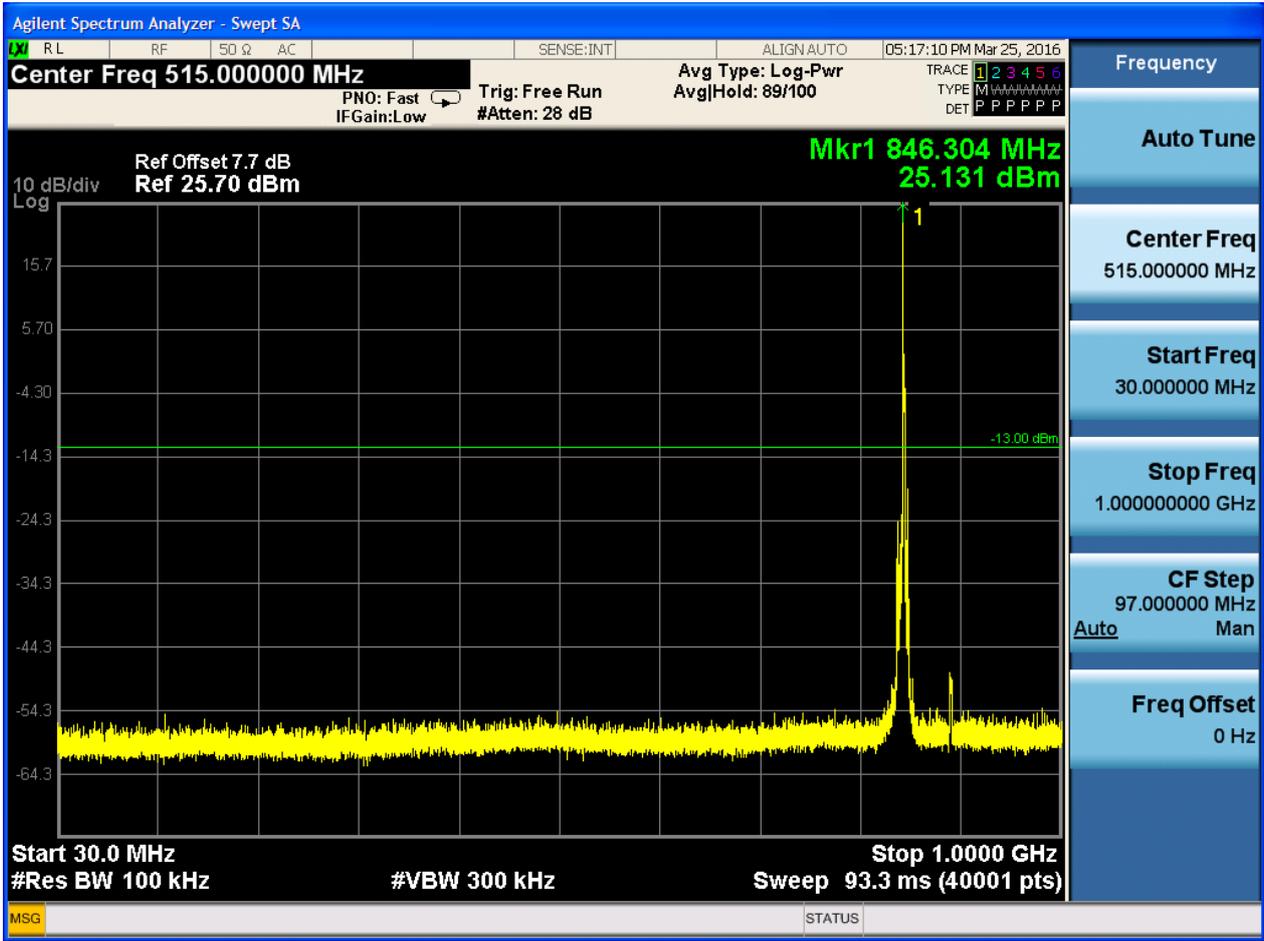


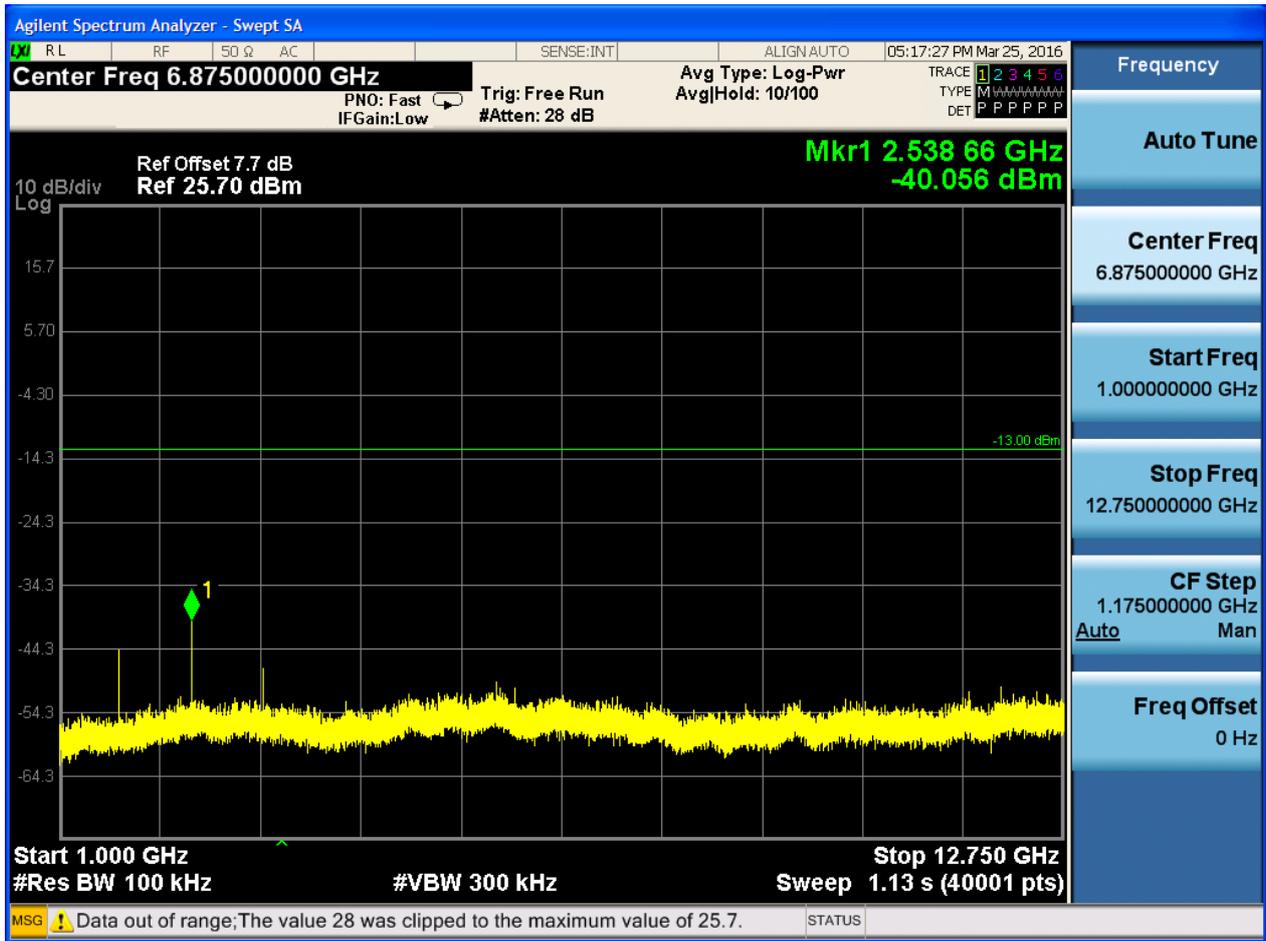
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0









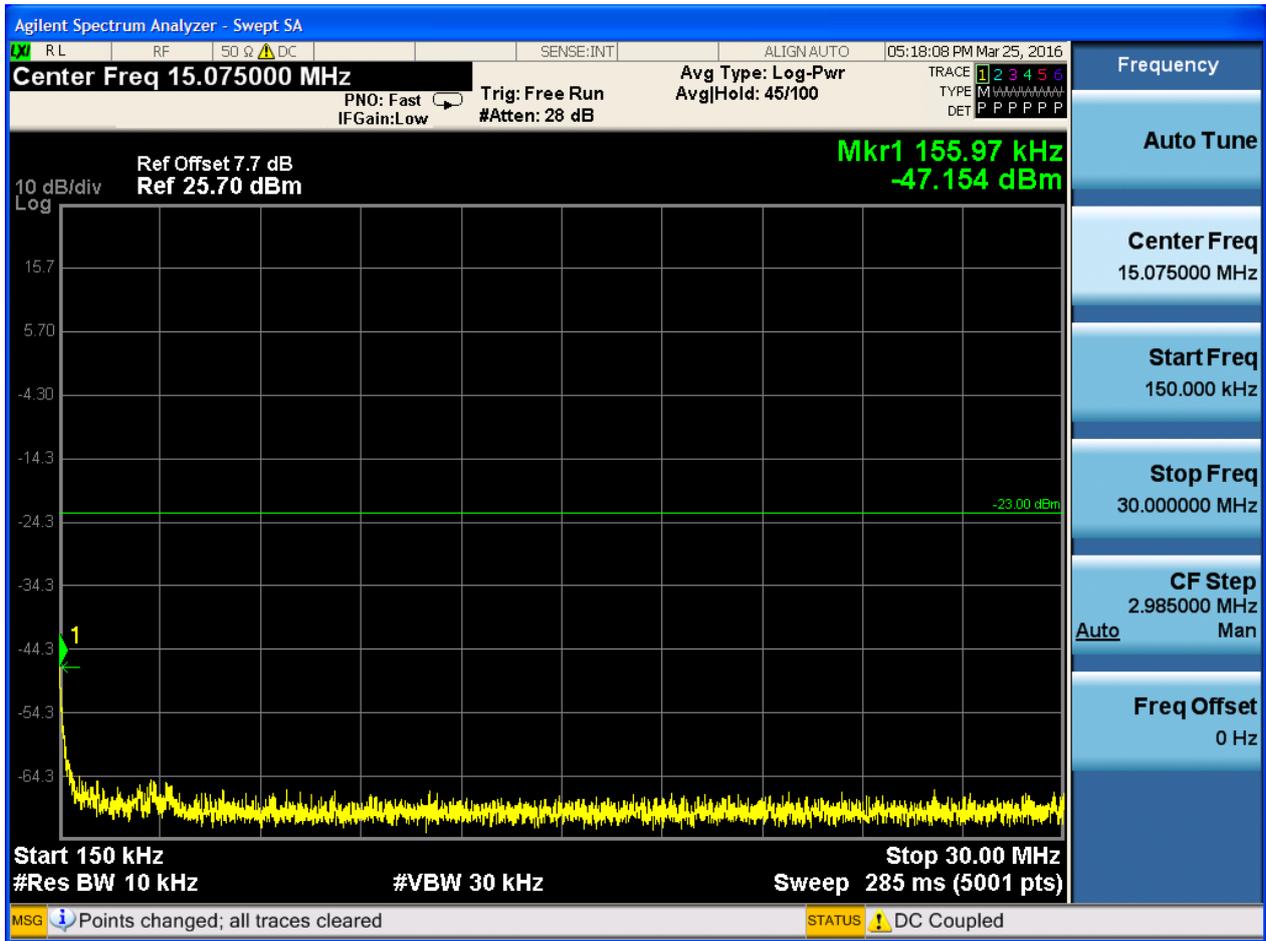


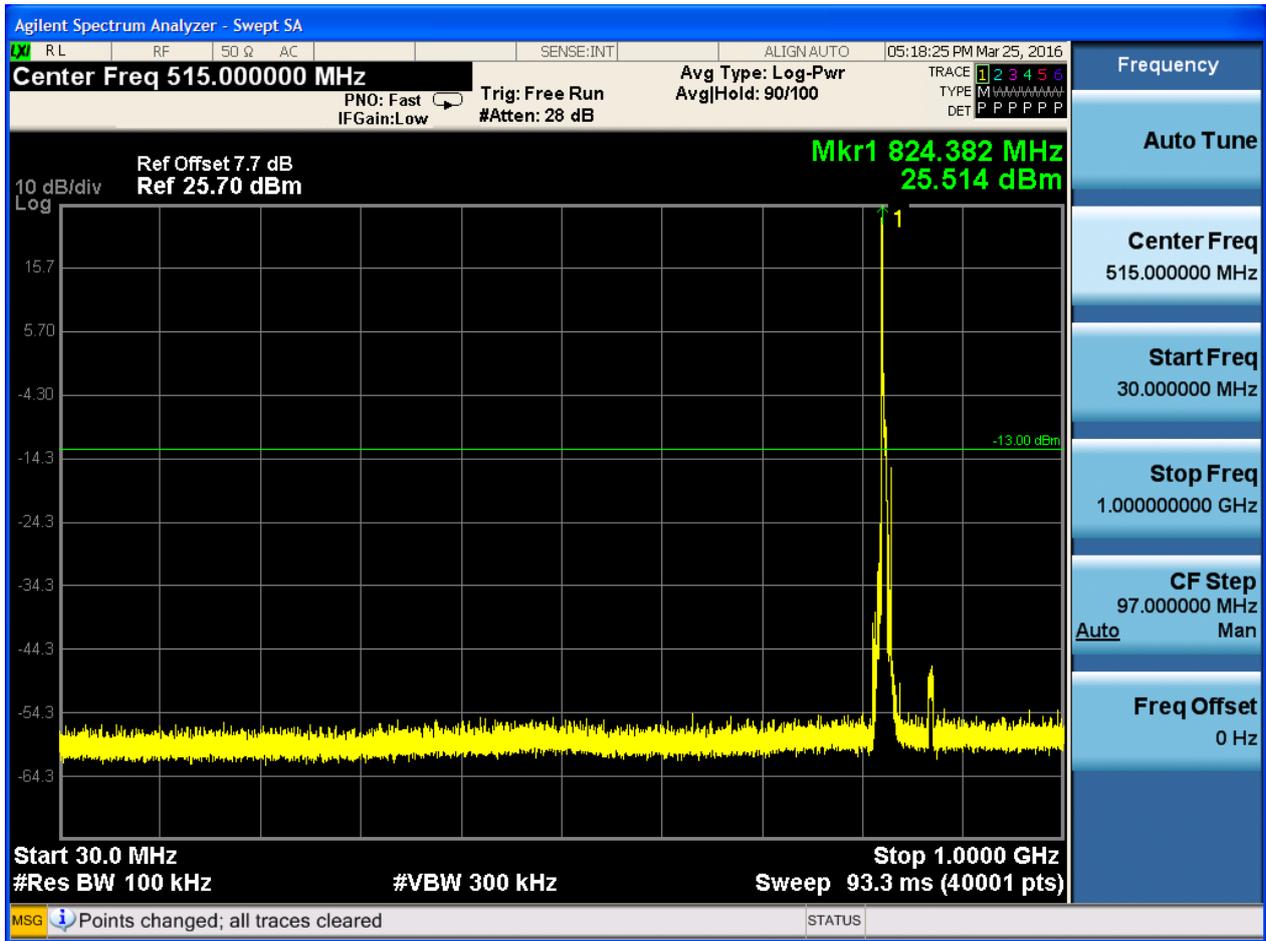
6.1.1.1.3 Test Bandwidth = 5

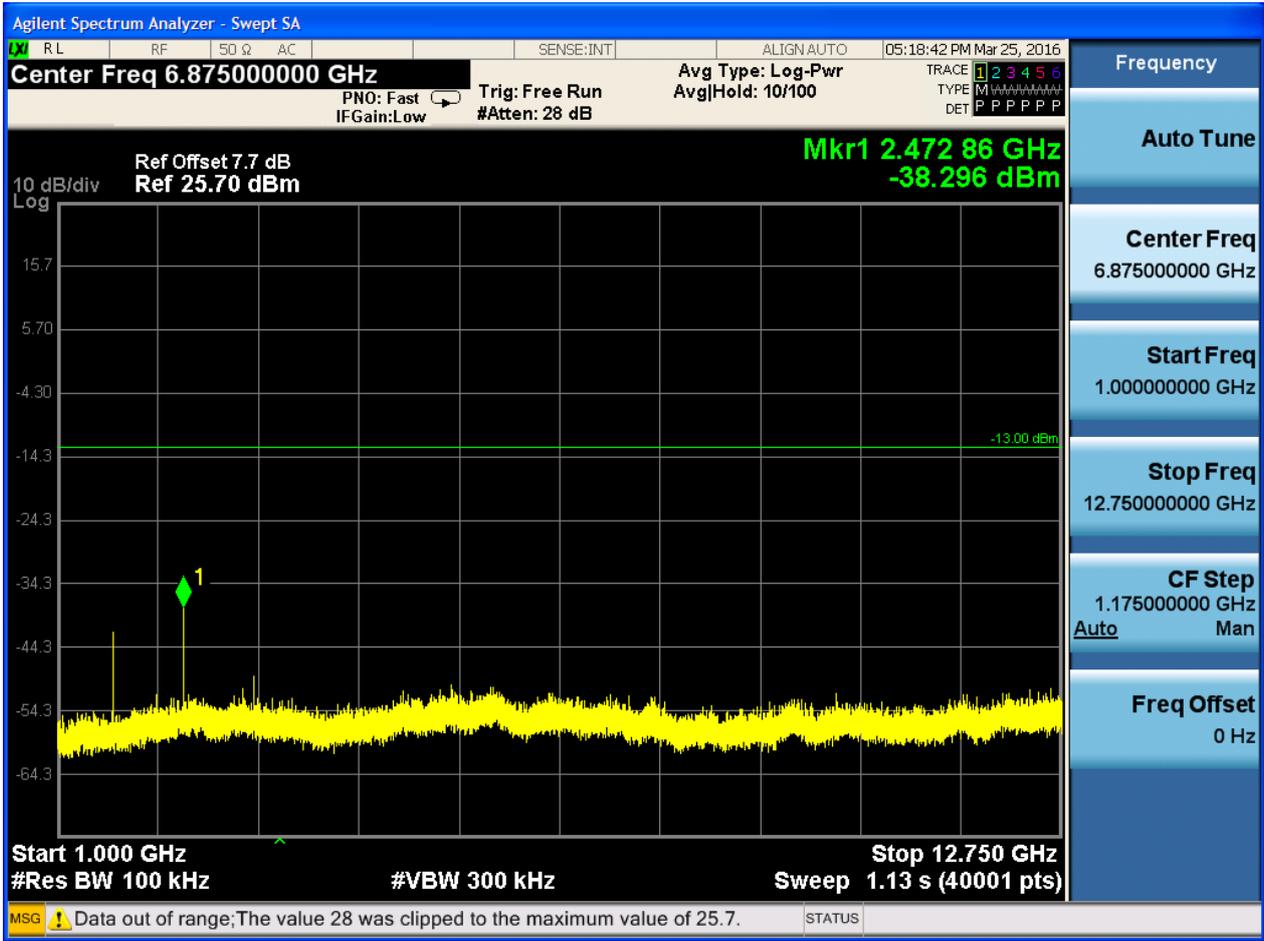
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0







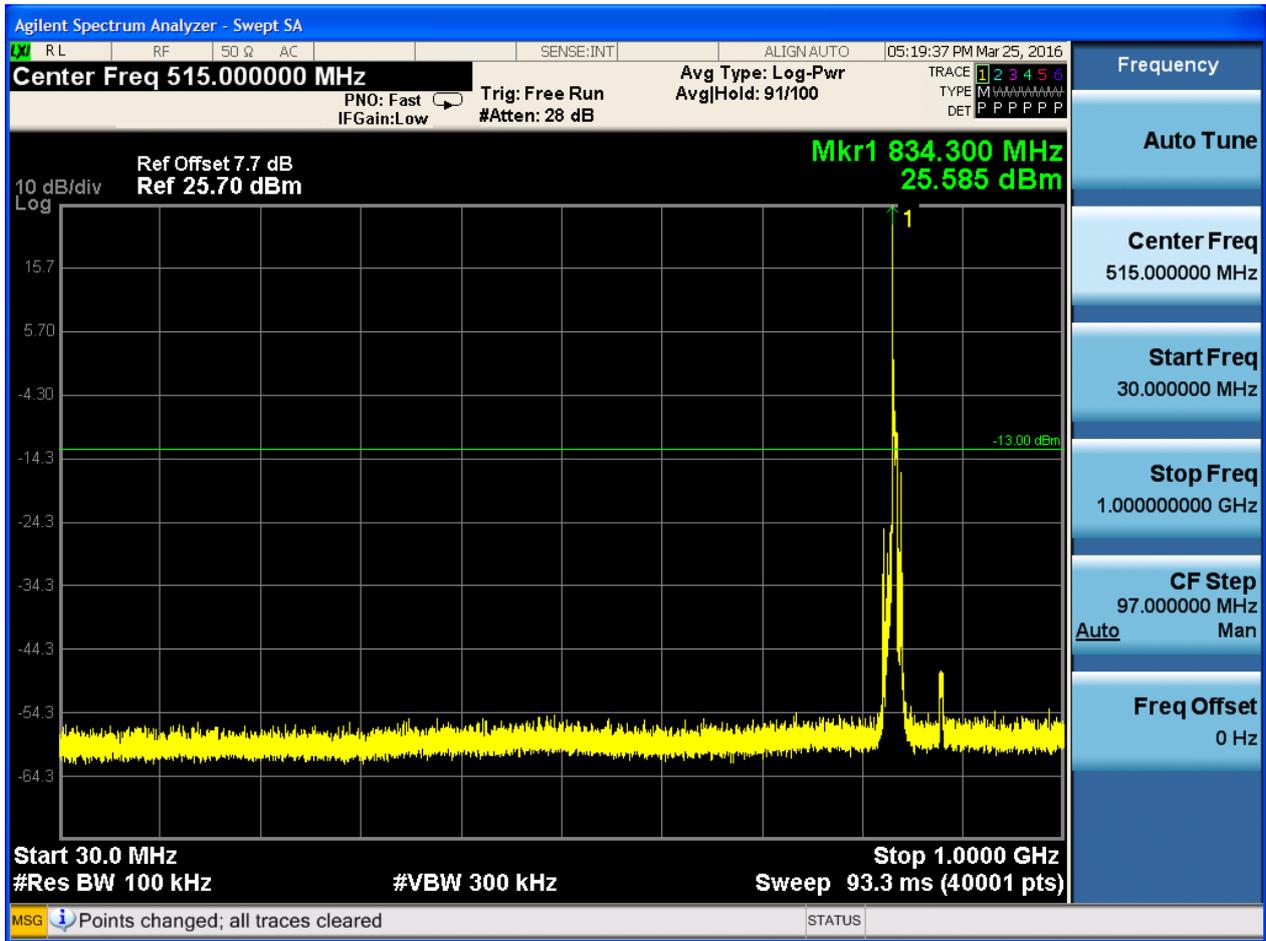


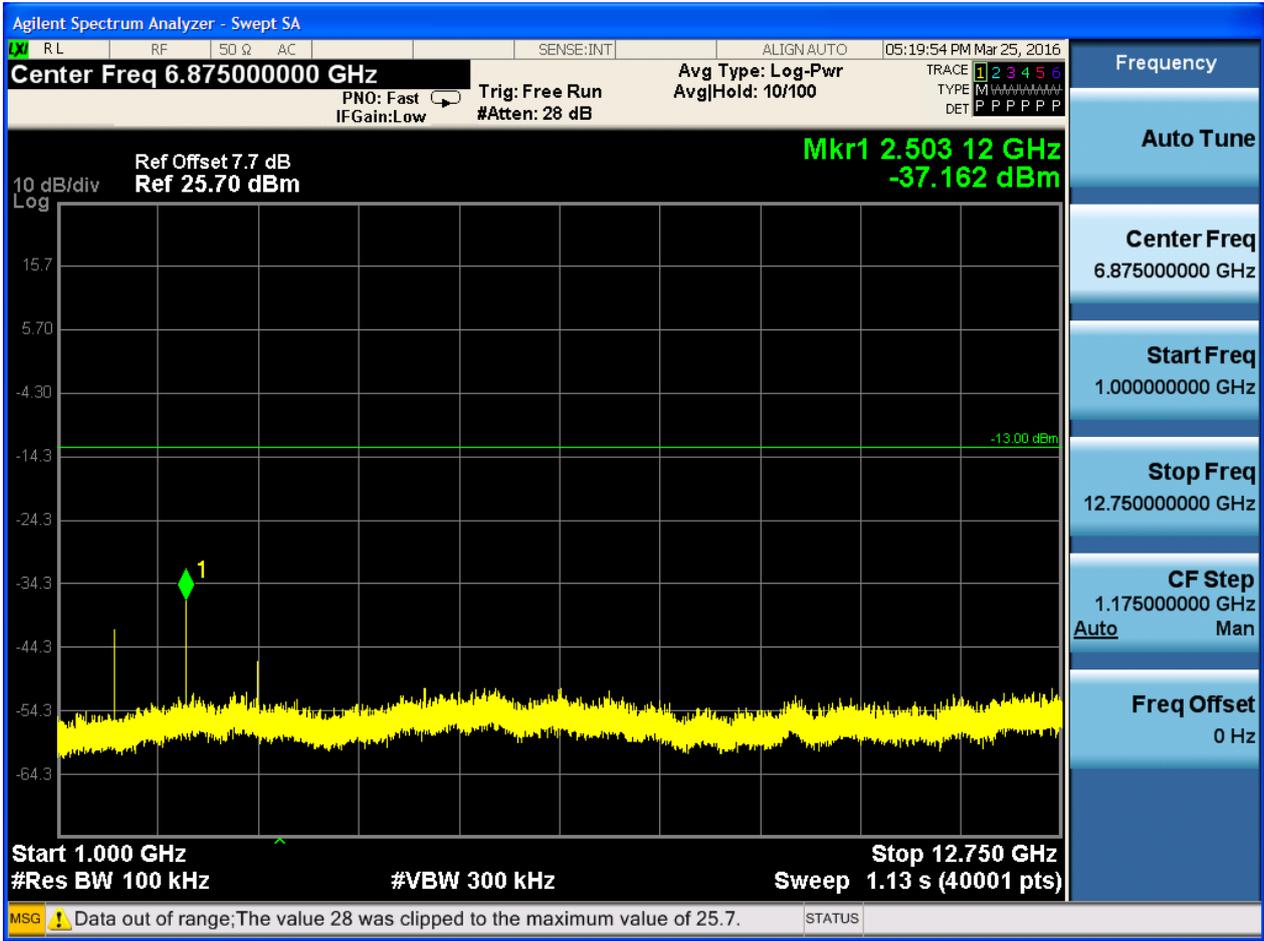
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



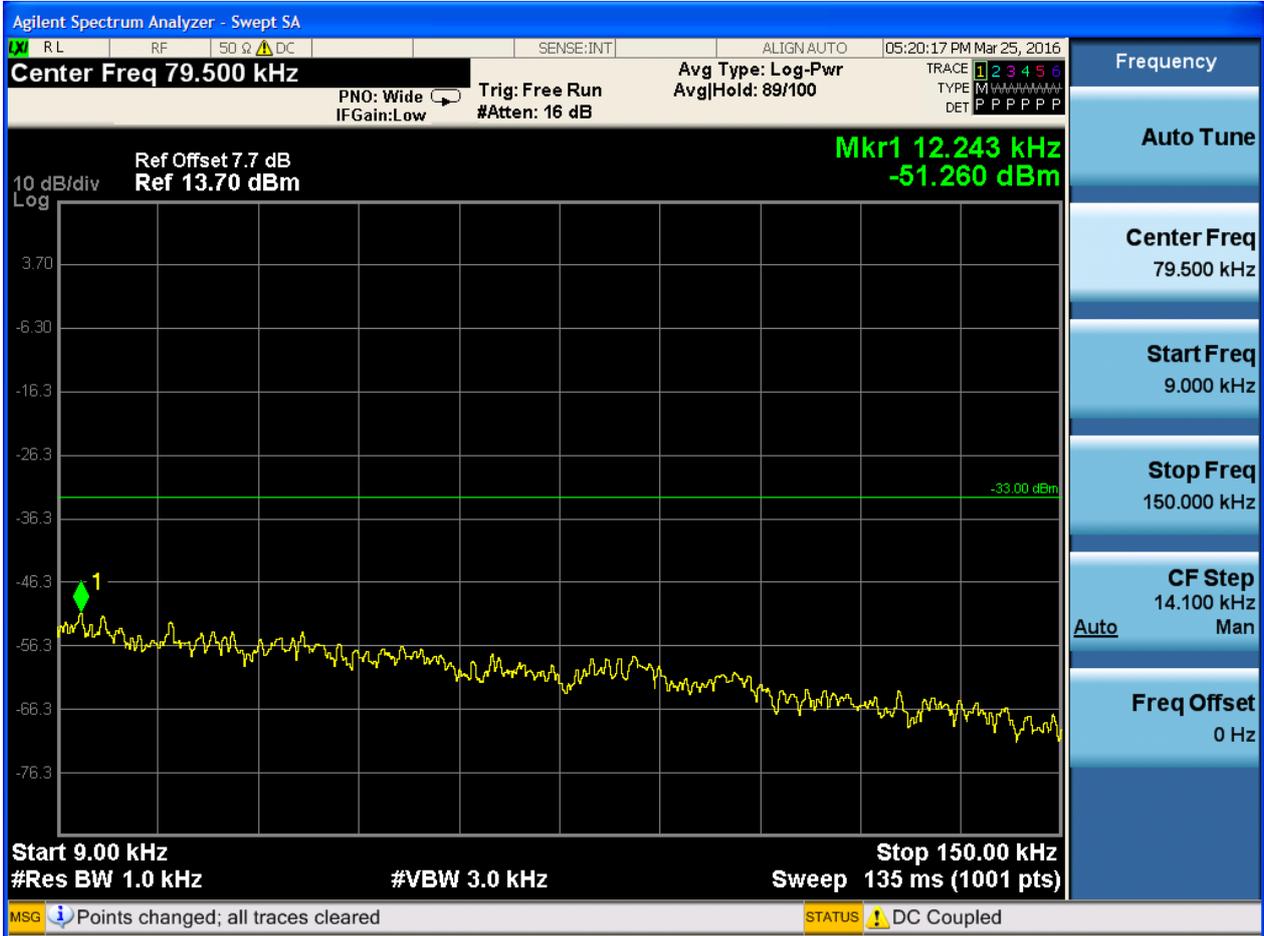


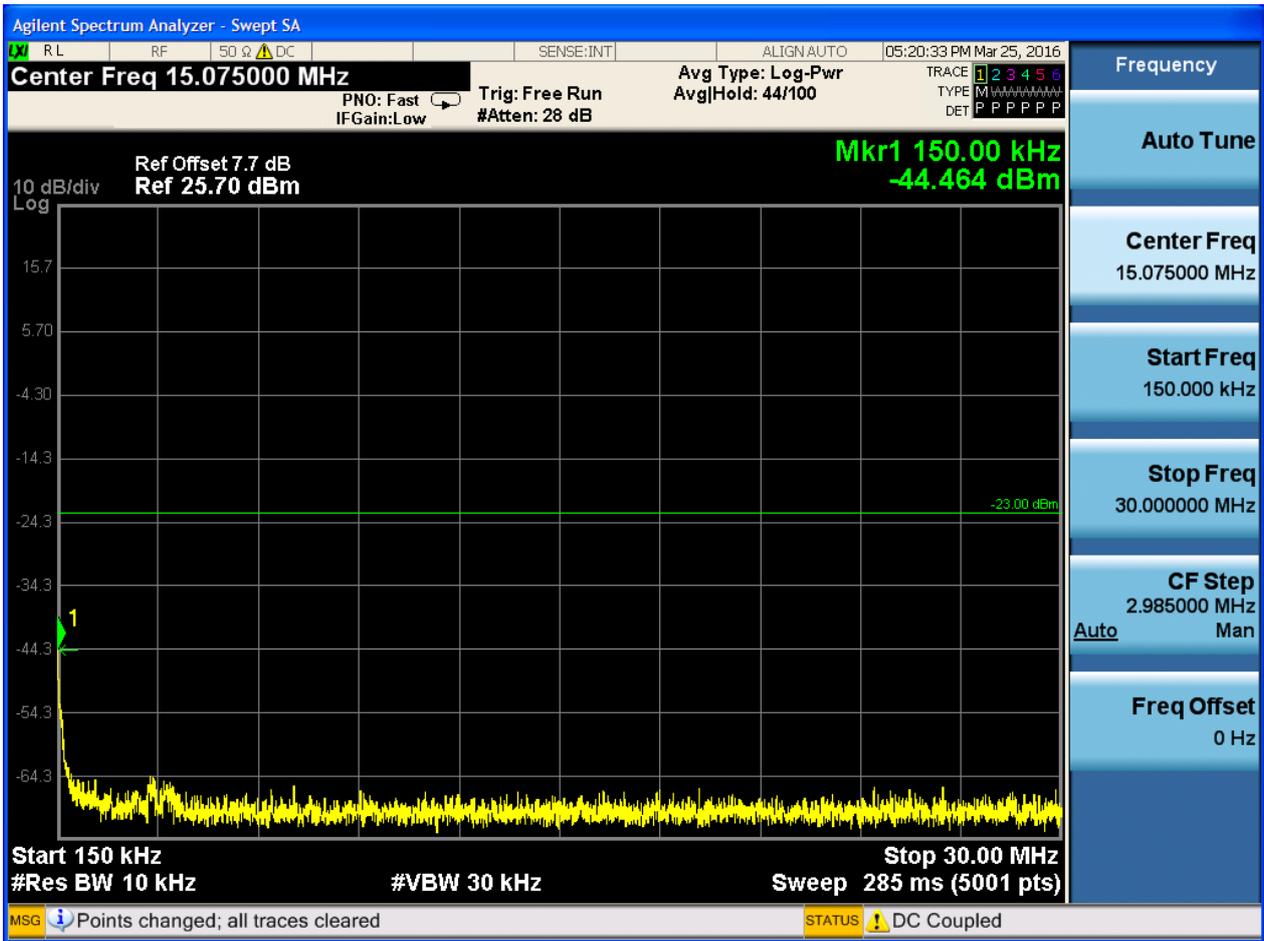


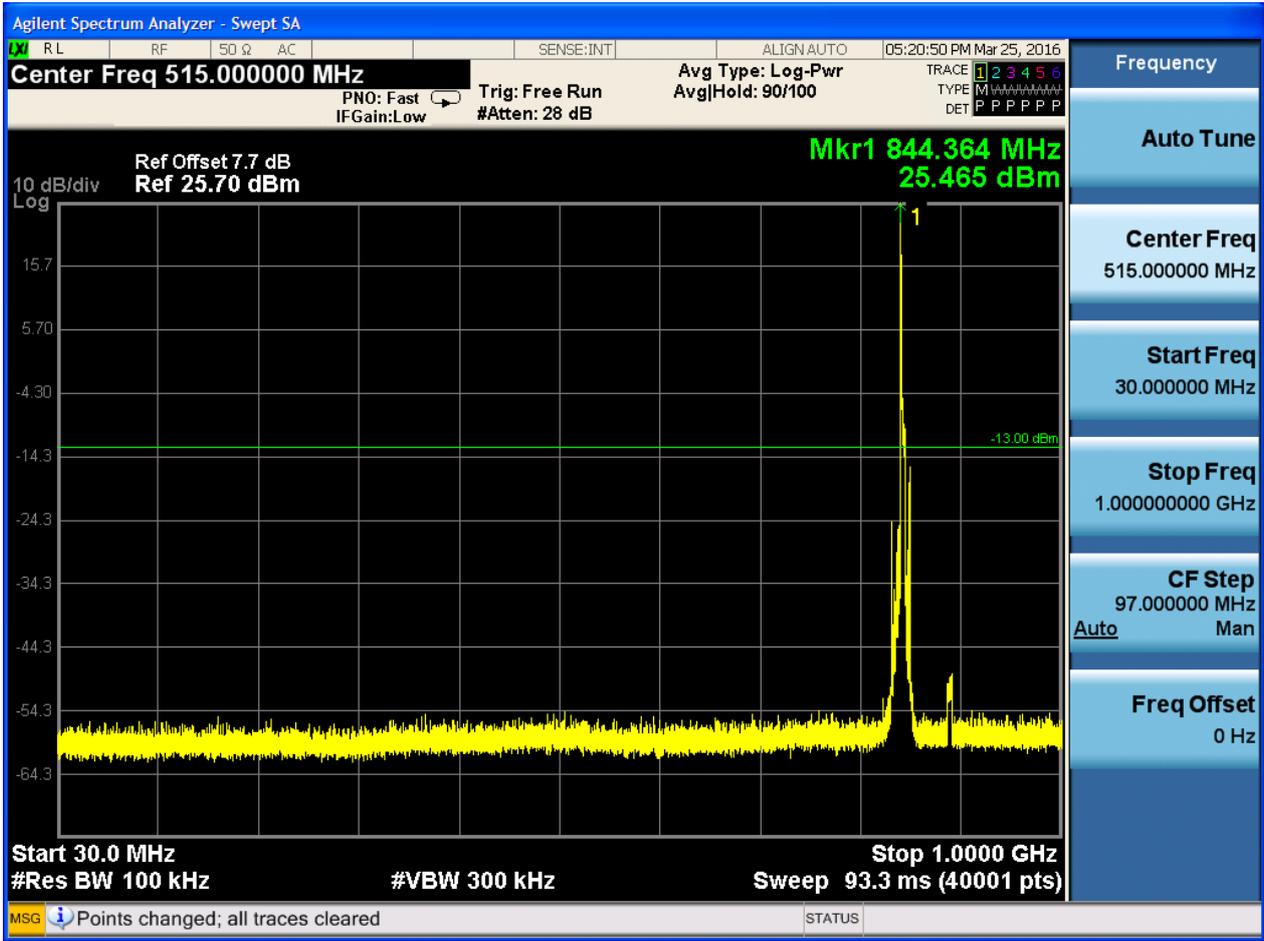


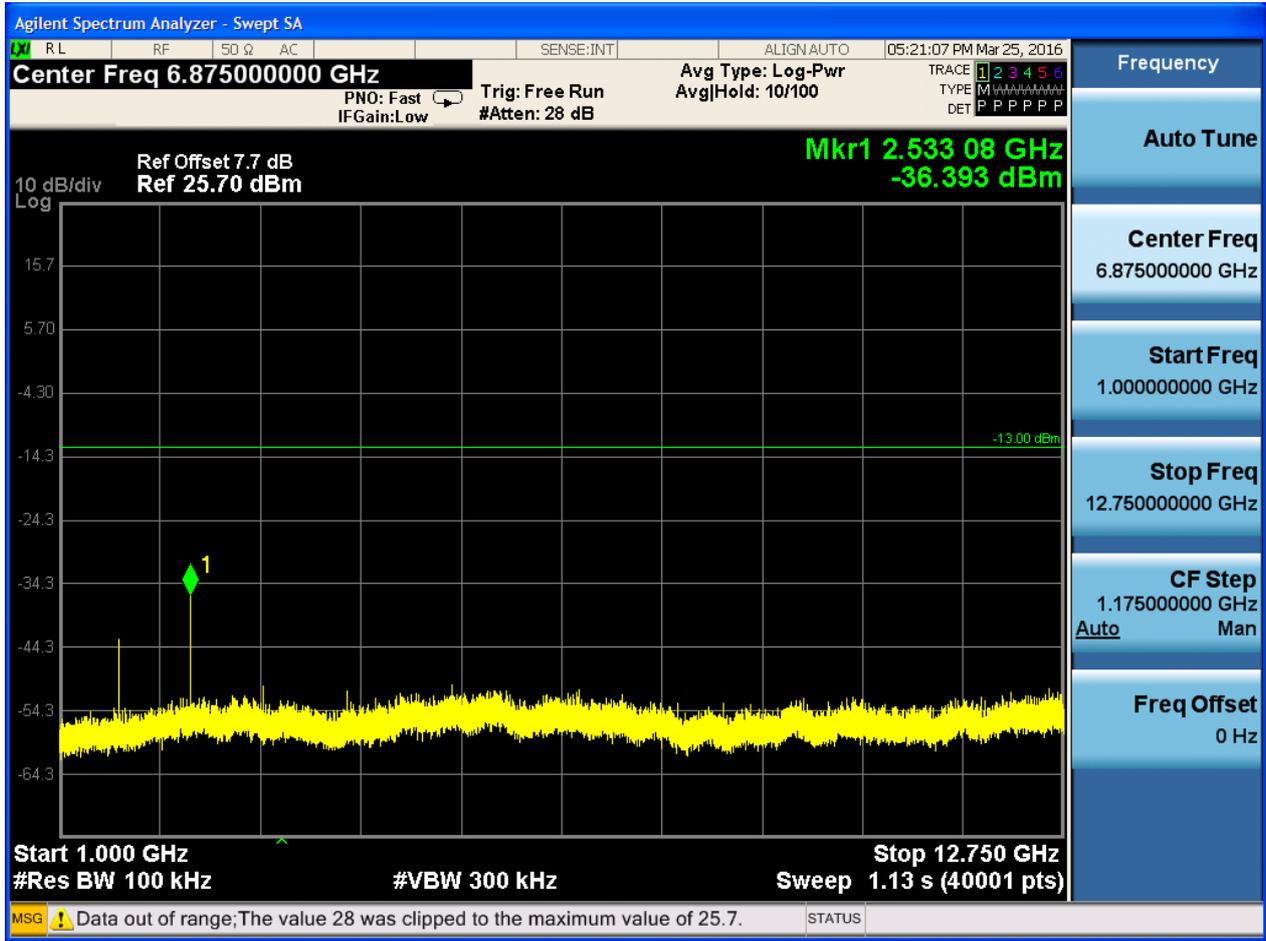
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0









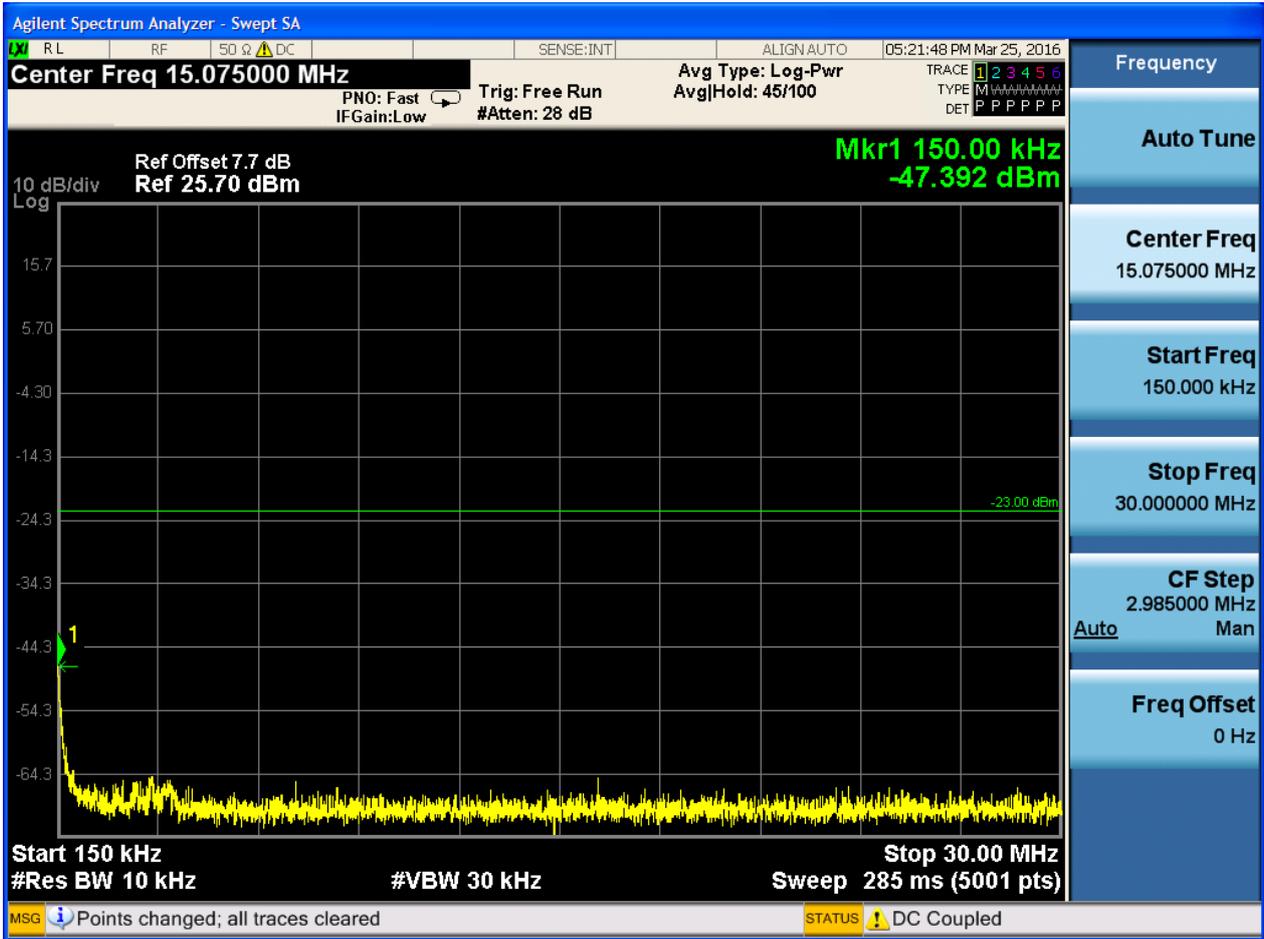


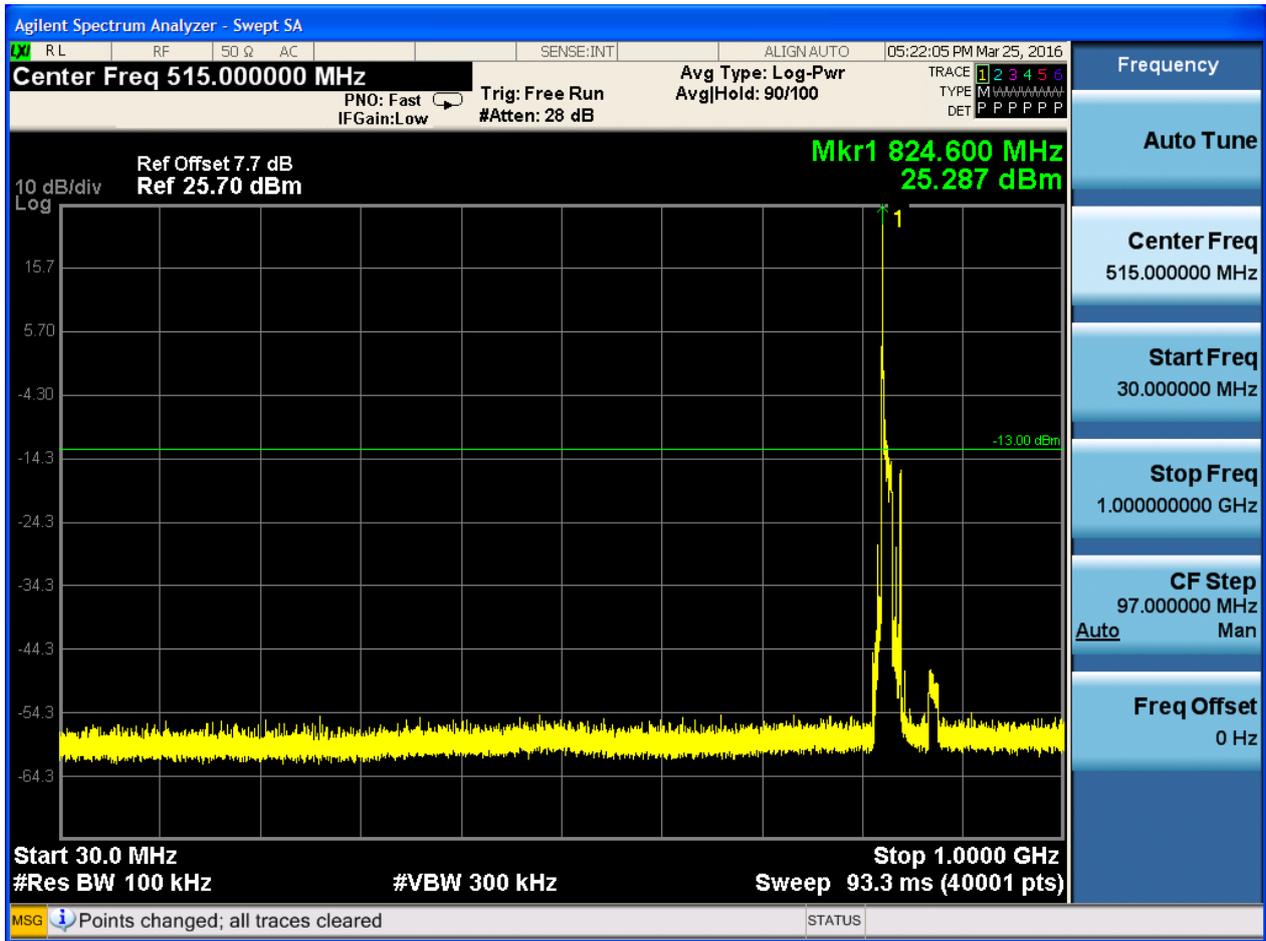
6.1.1.1.4 Test Bandwidth = 10

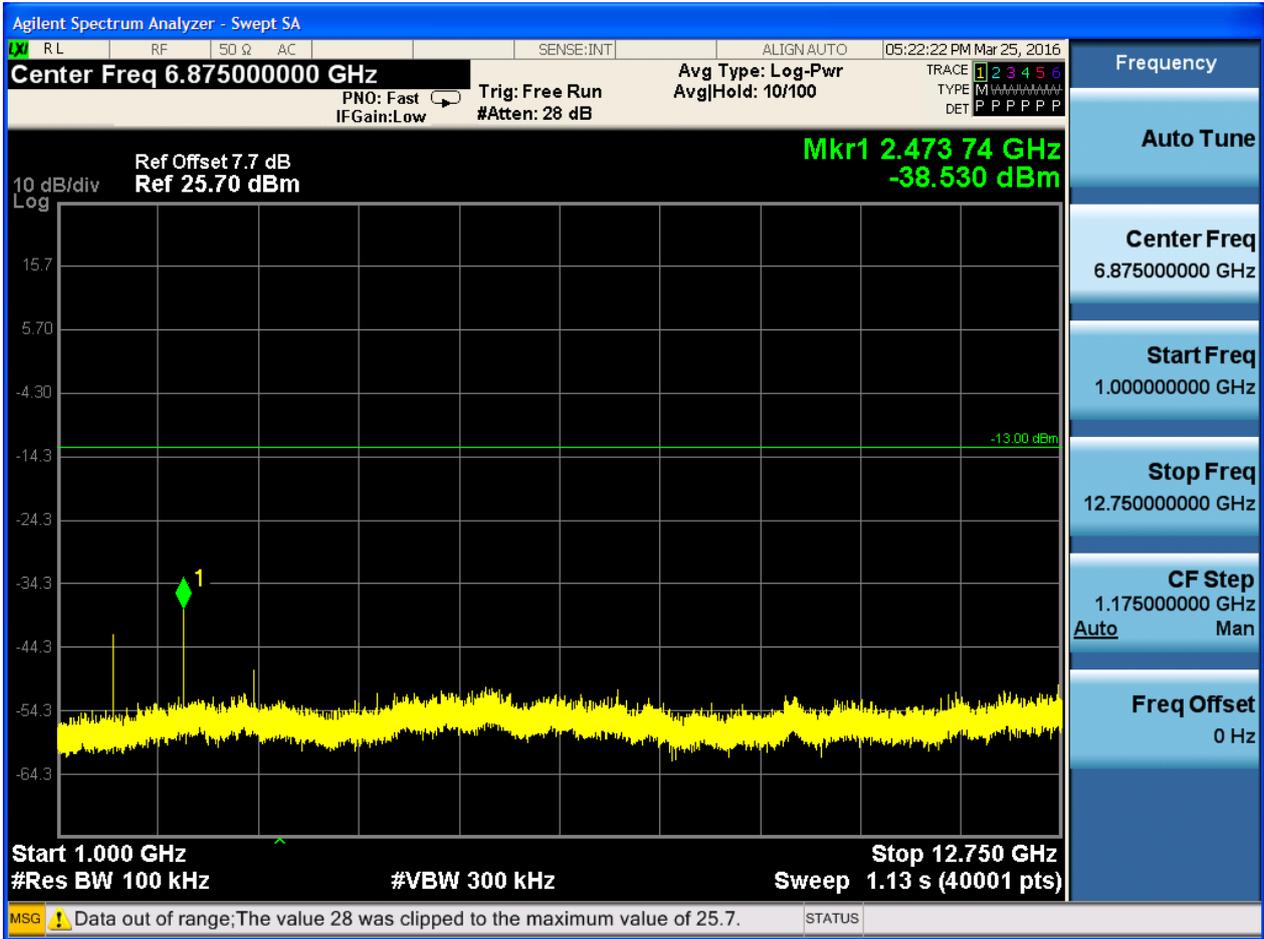
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0







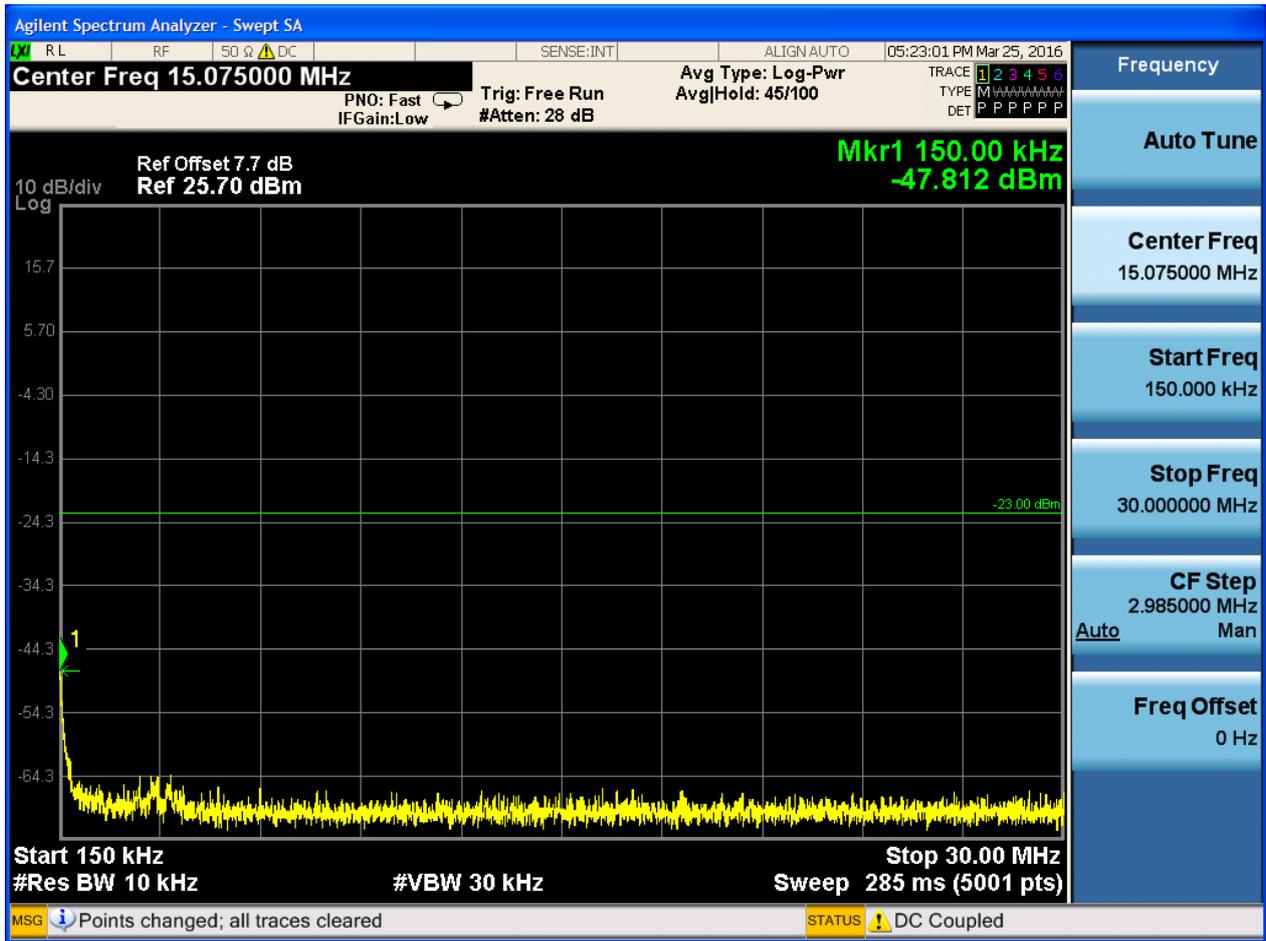


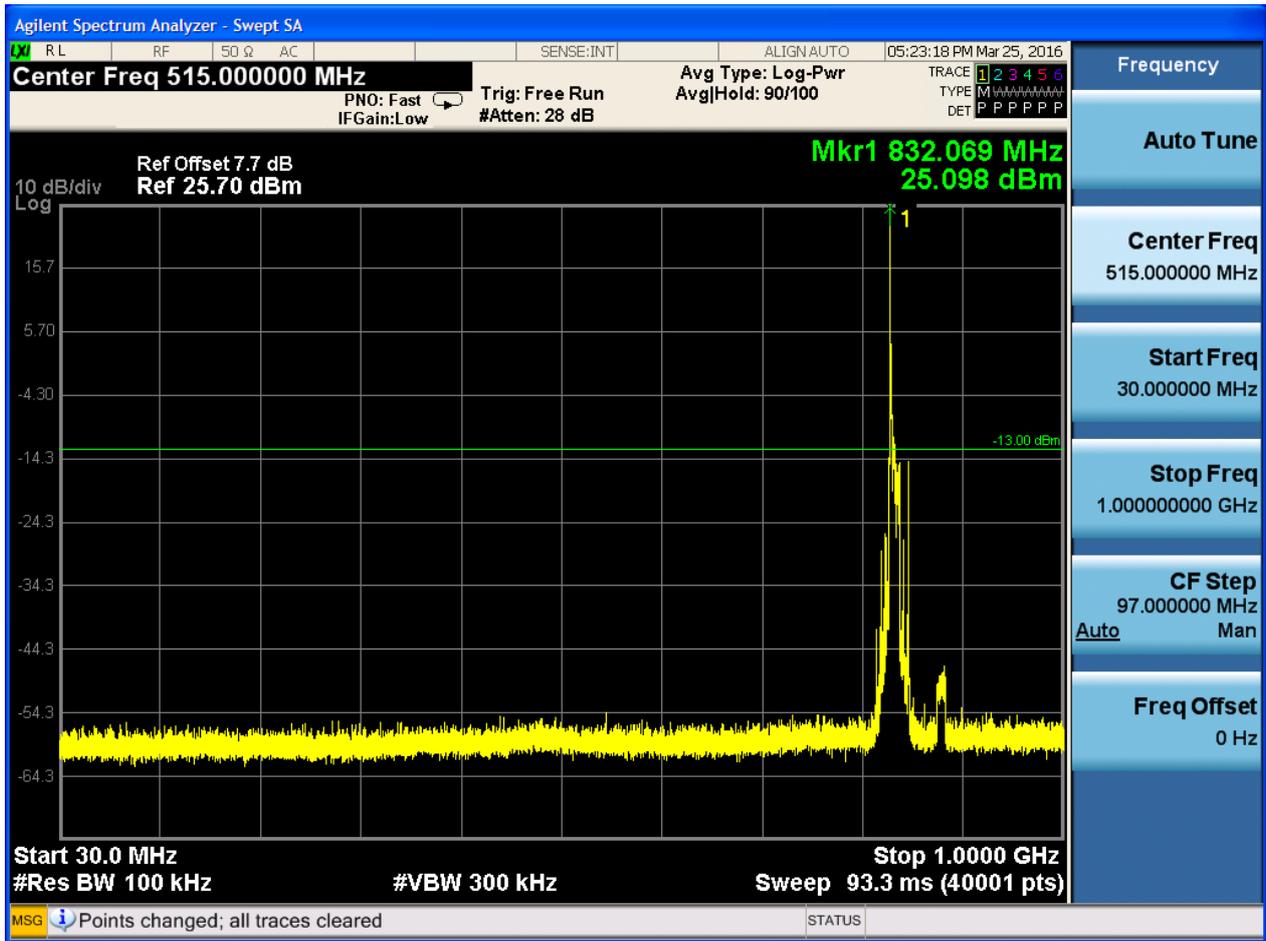


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





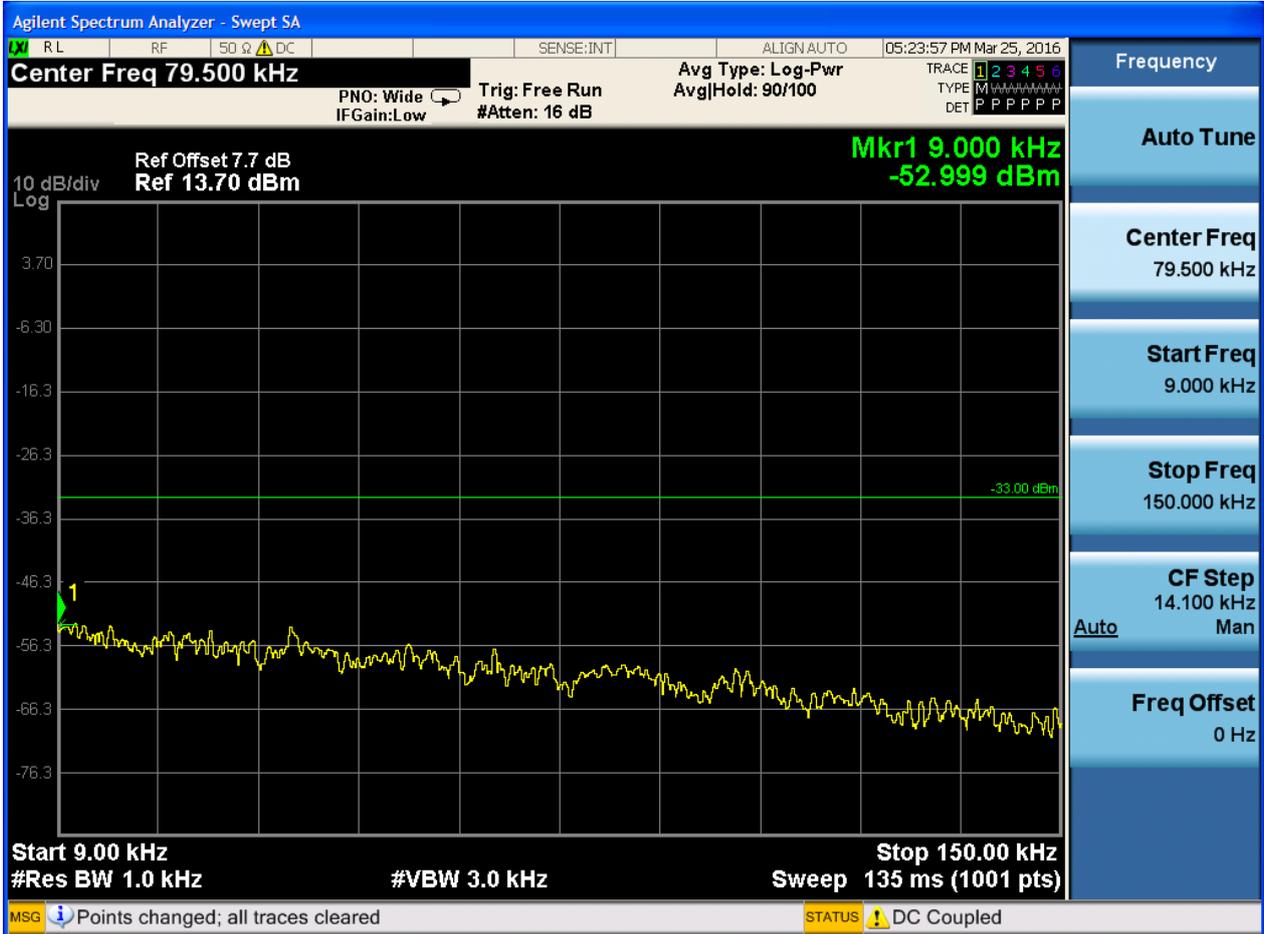


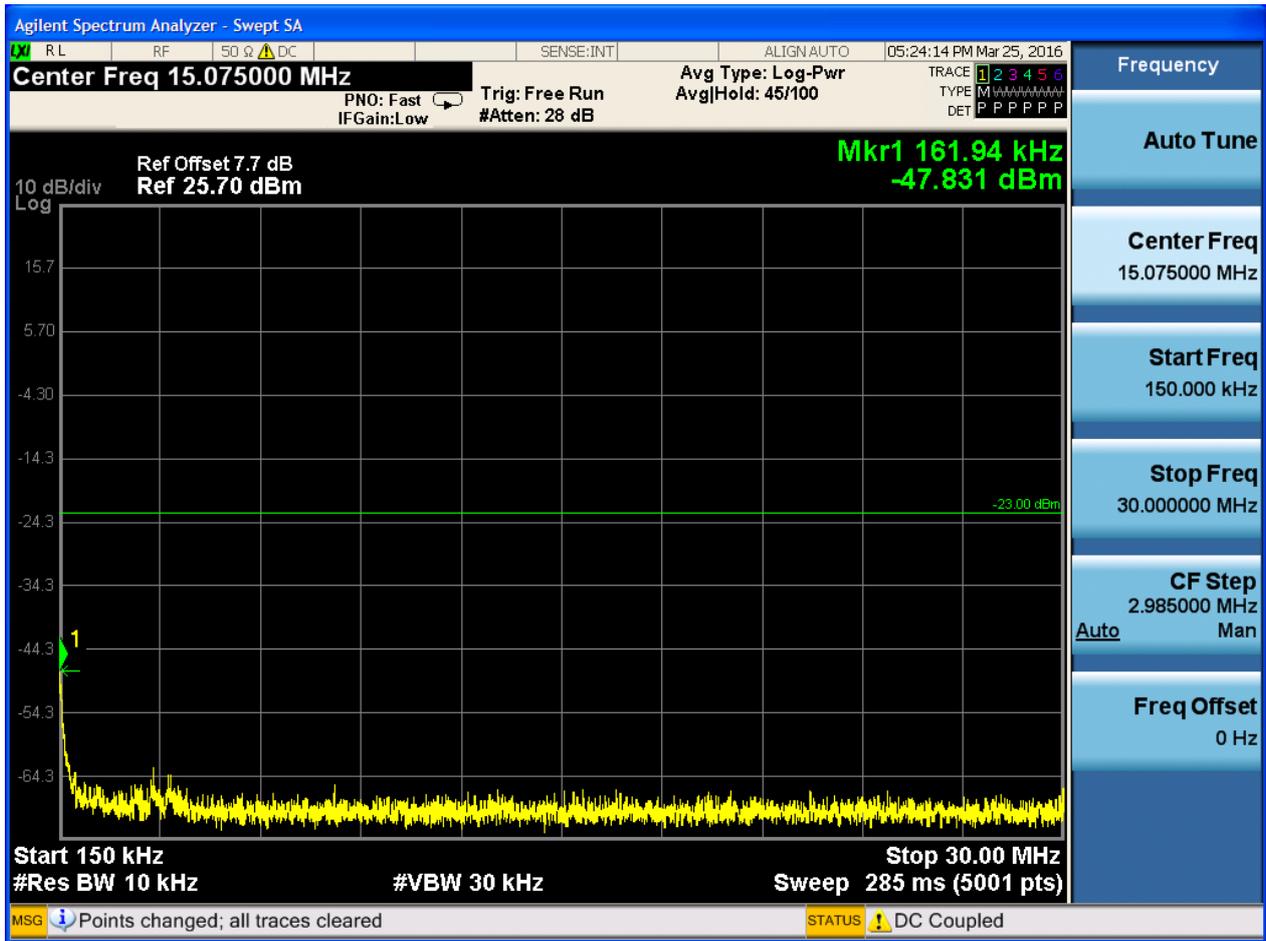


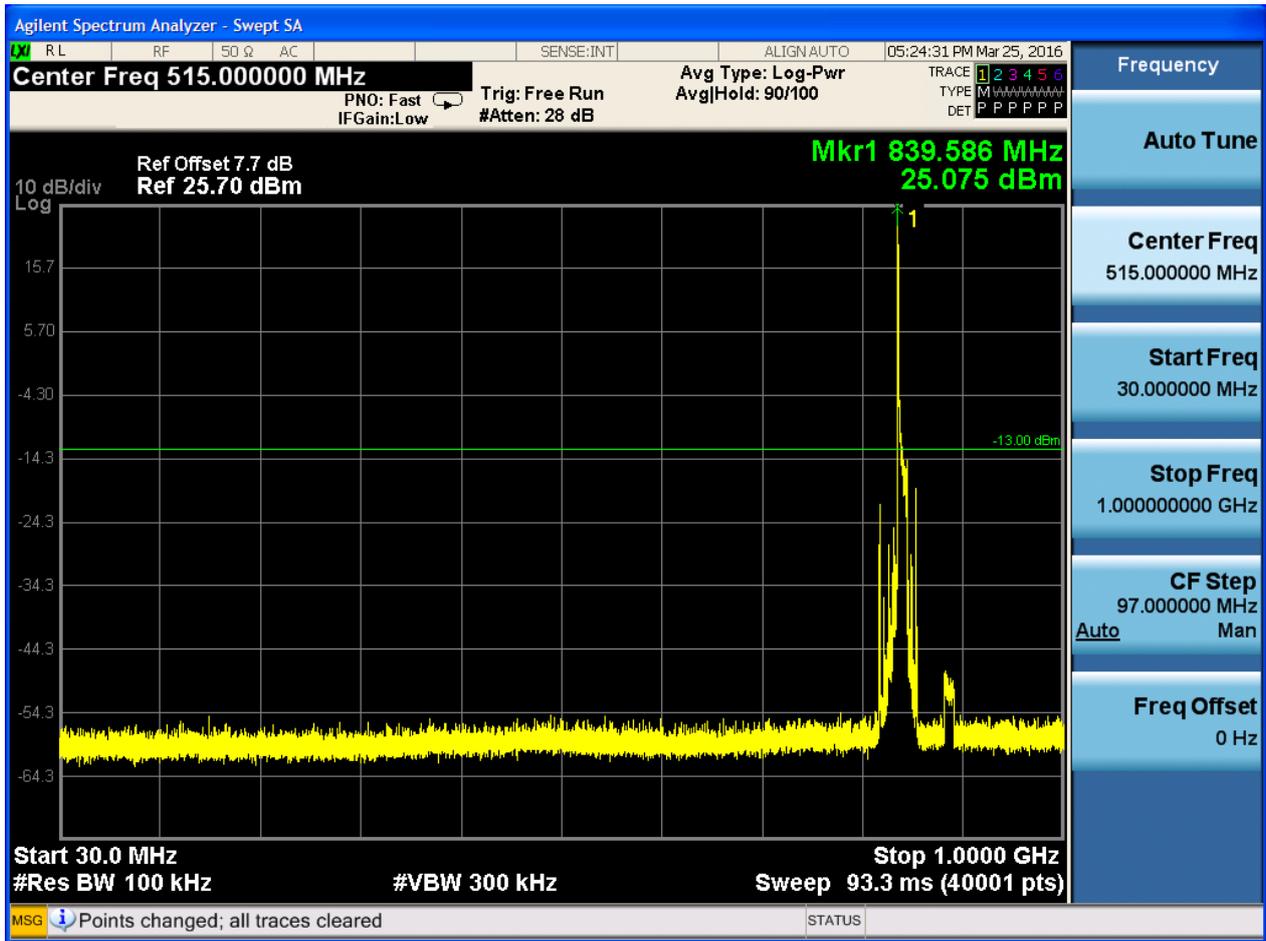


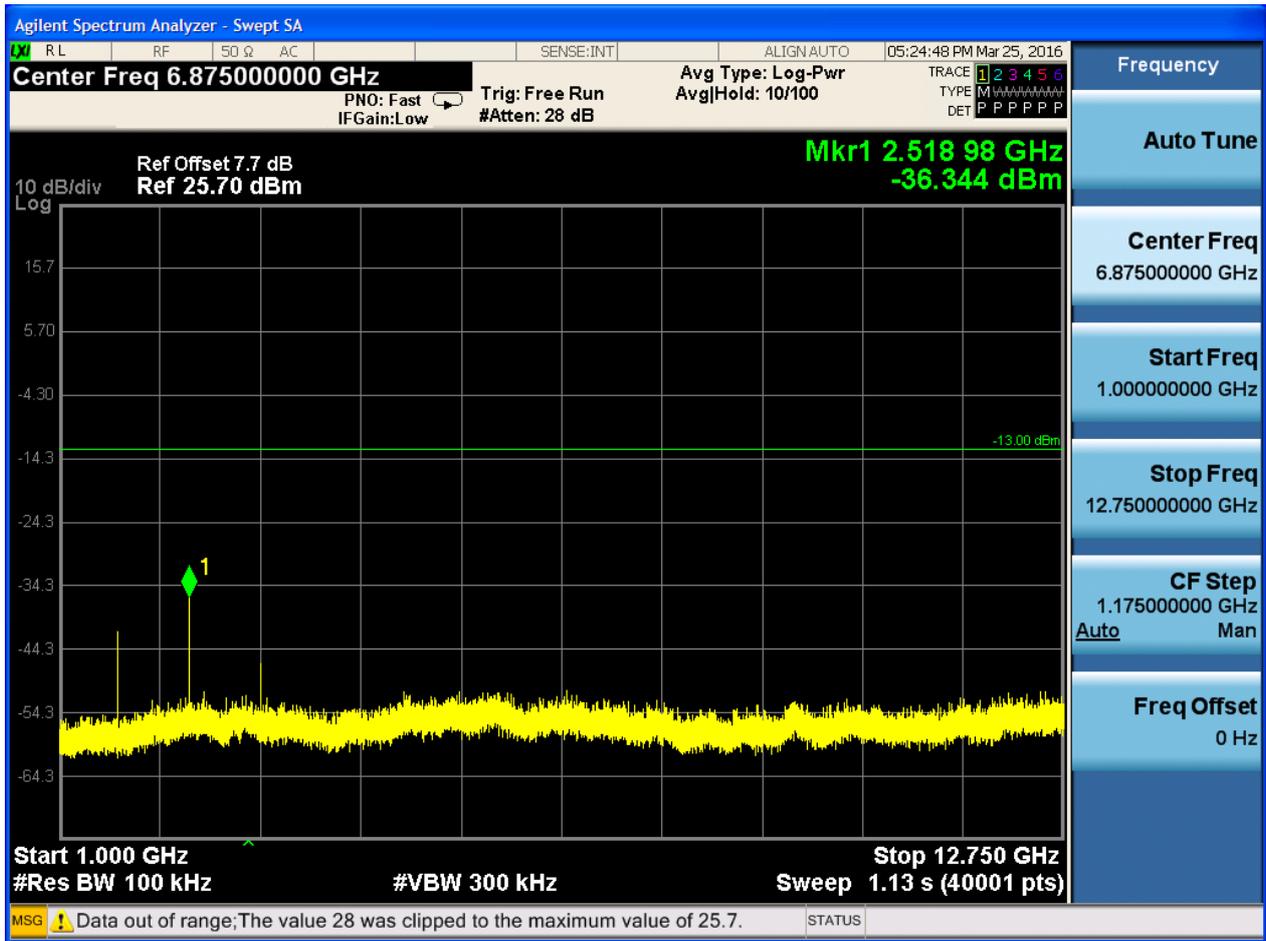
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0











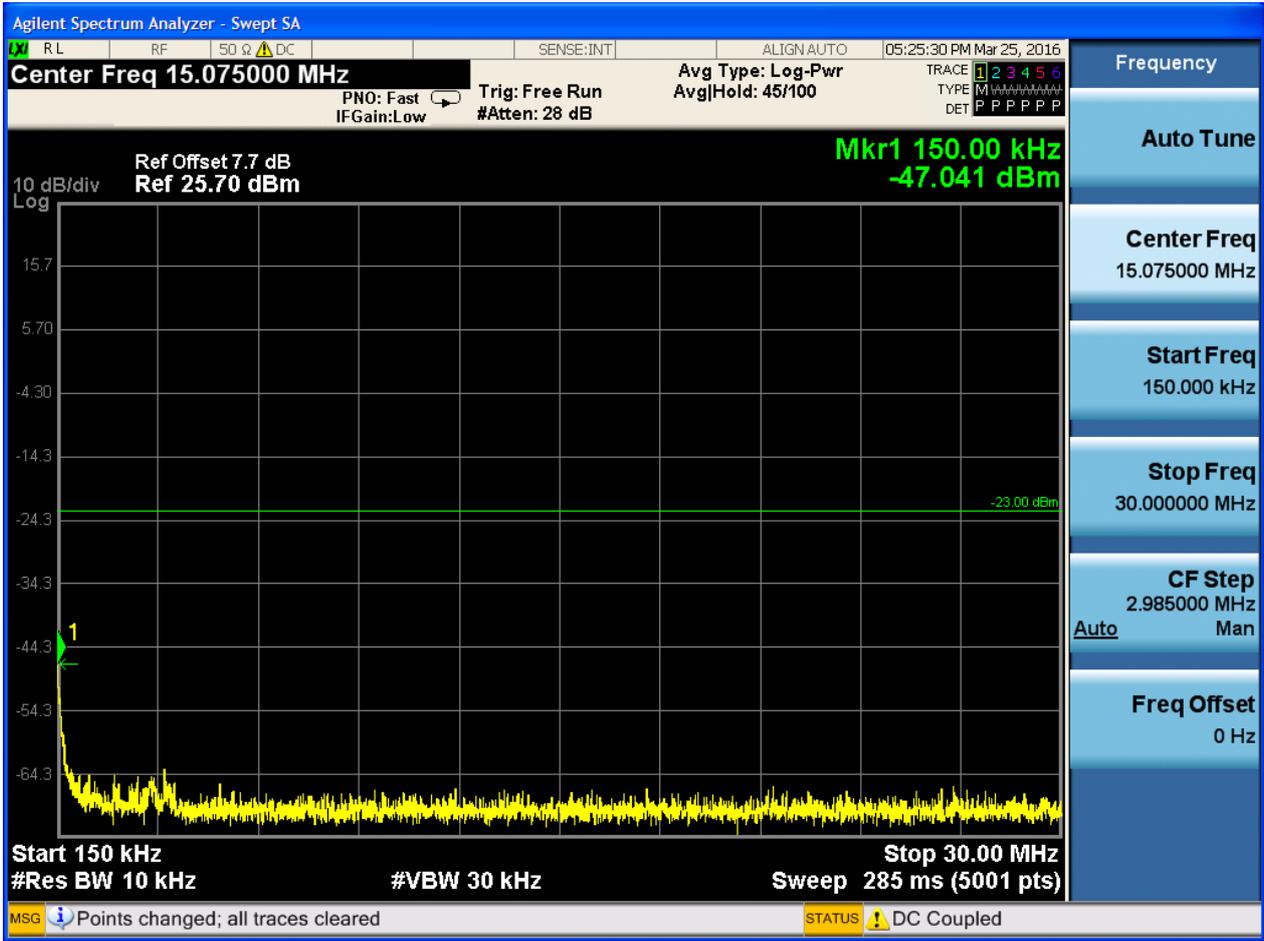
6.1.1.2 Test Mode = LTE/TM2

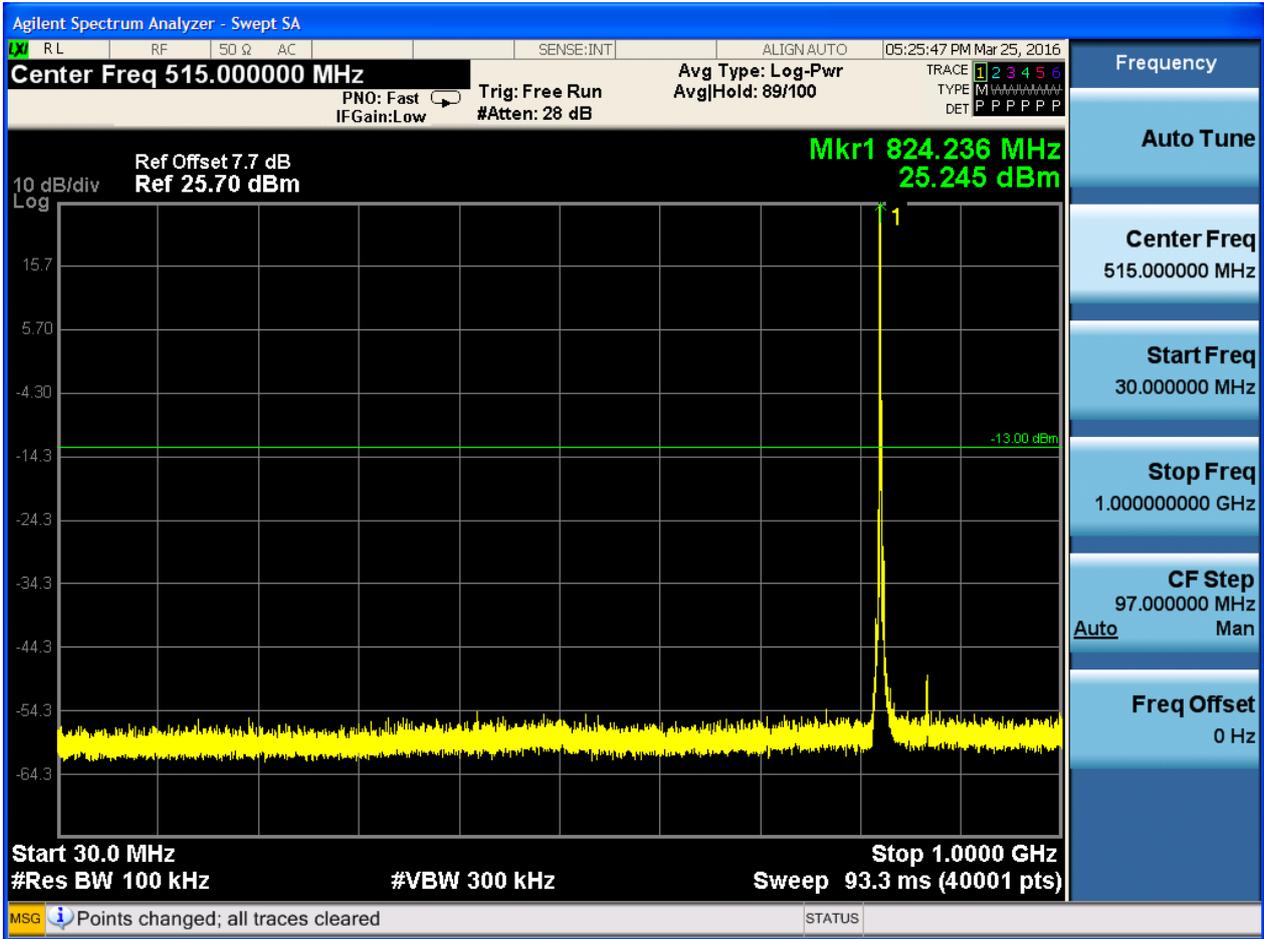
6.1.1.2.1 Test Bandwidth = 1.4

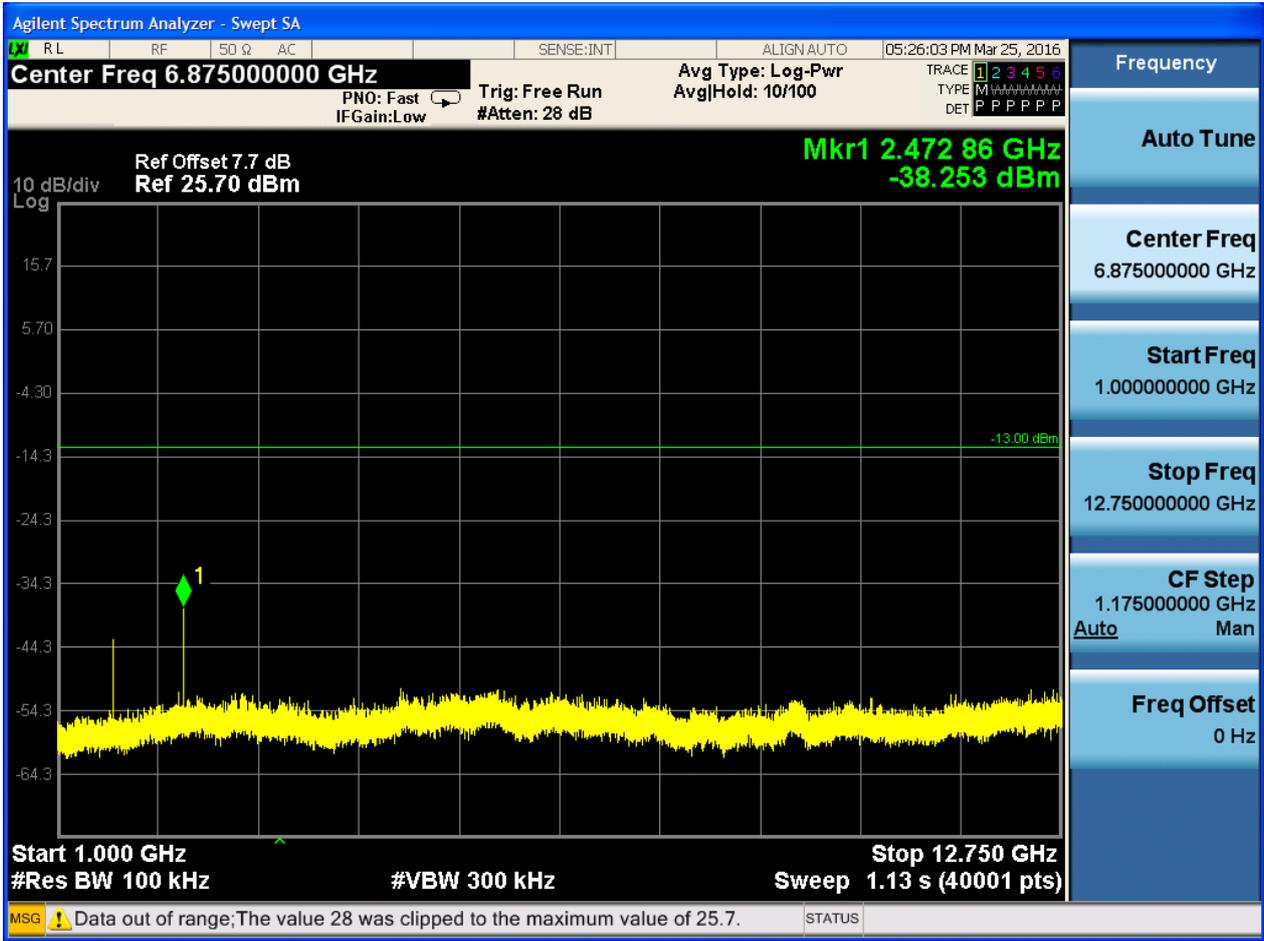
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





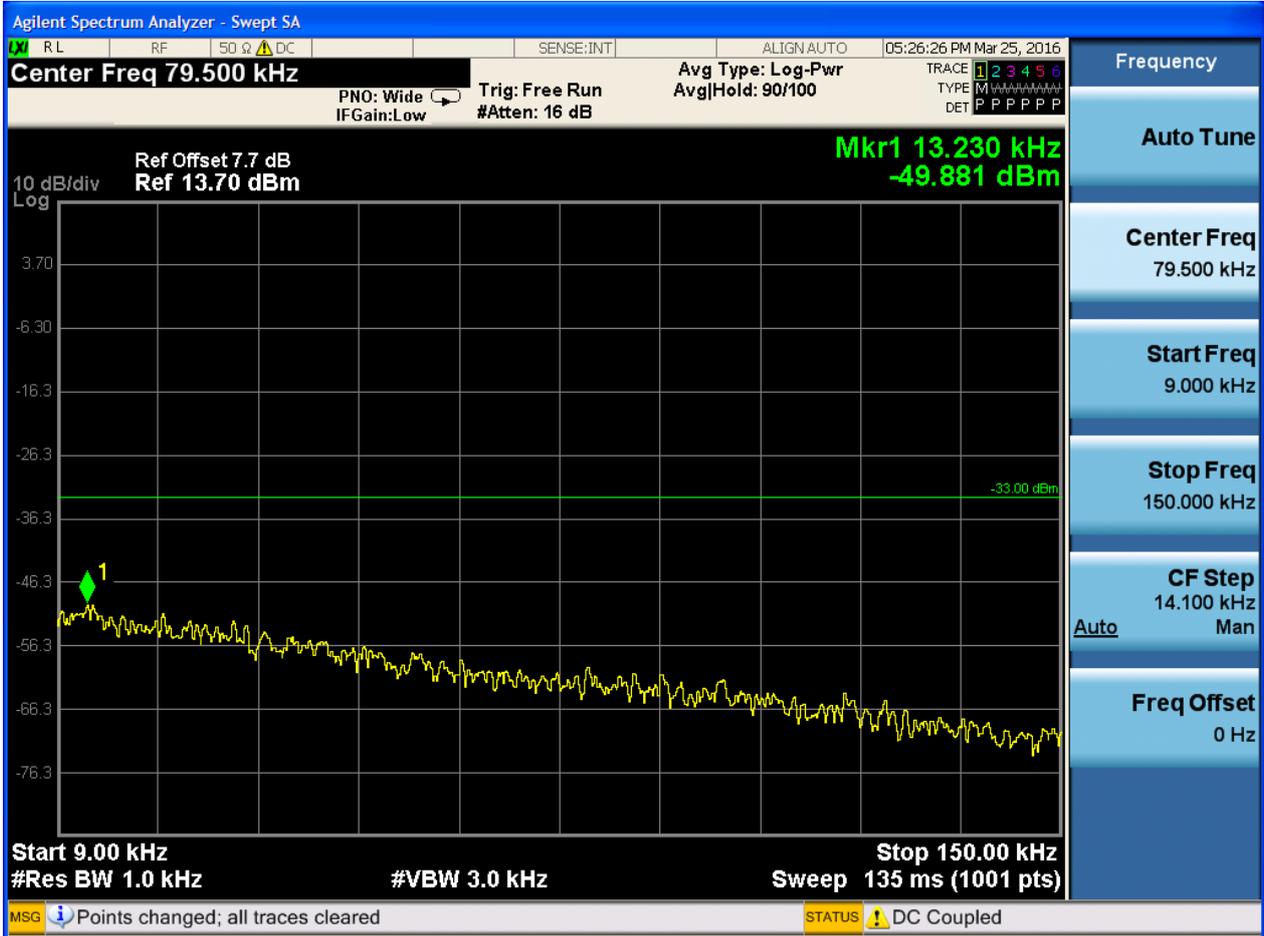






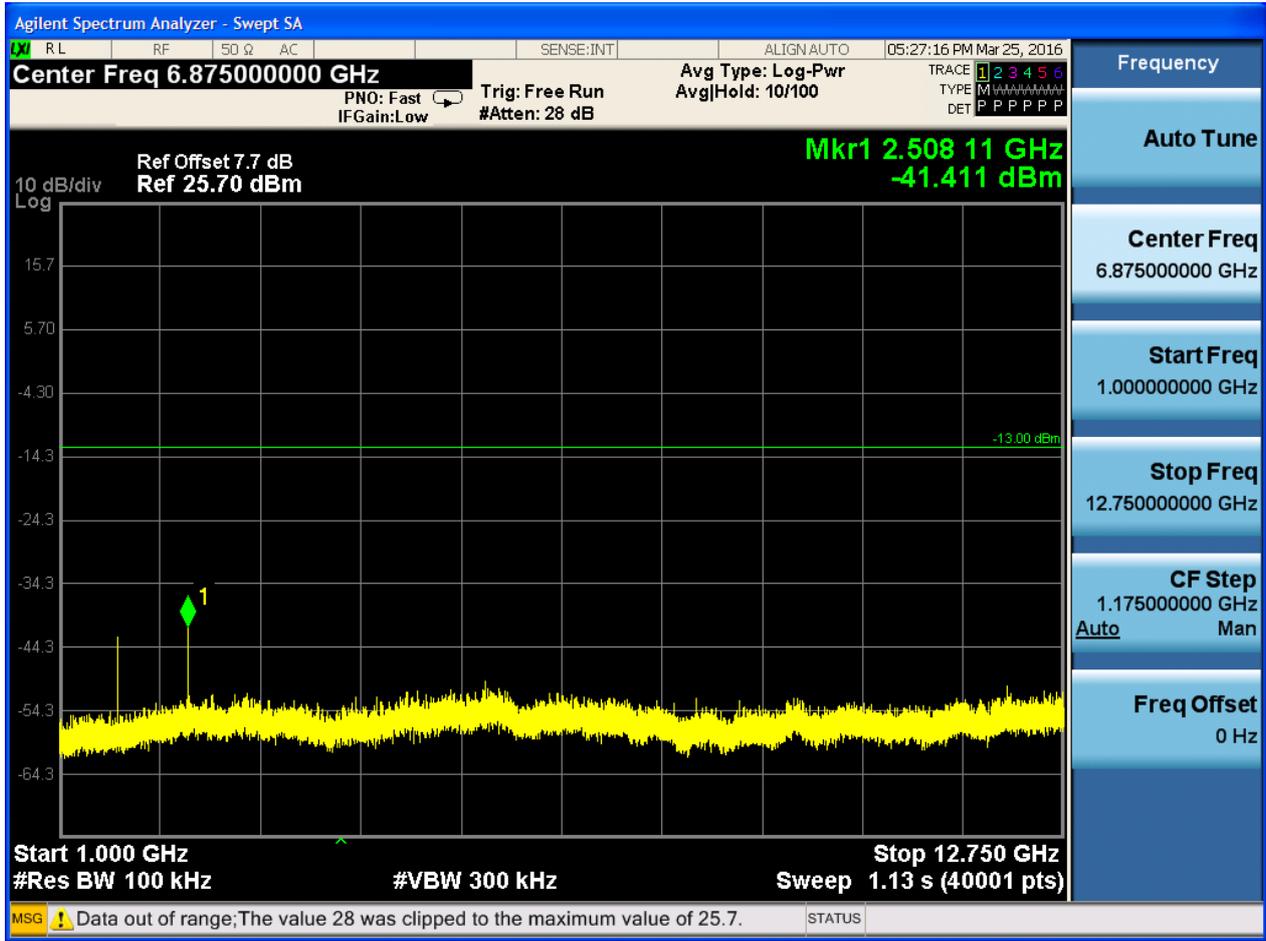
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

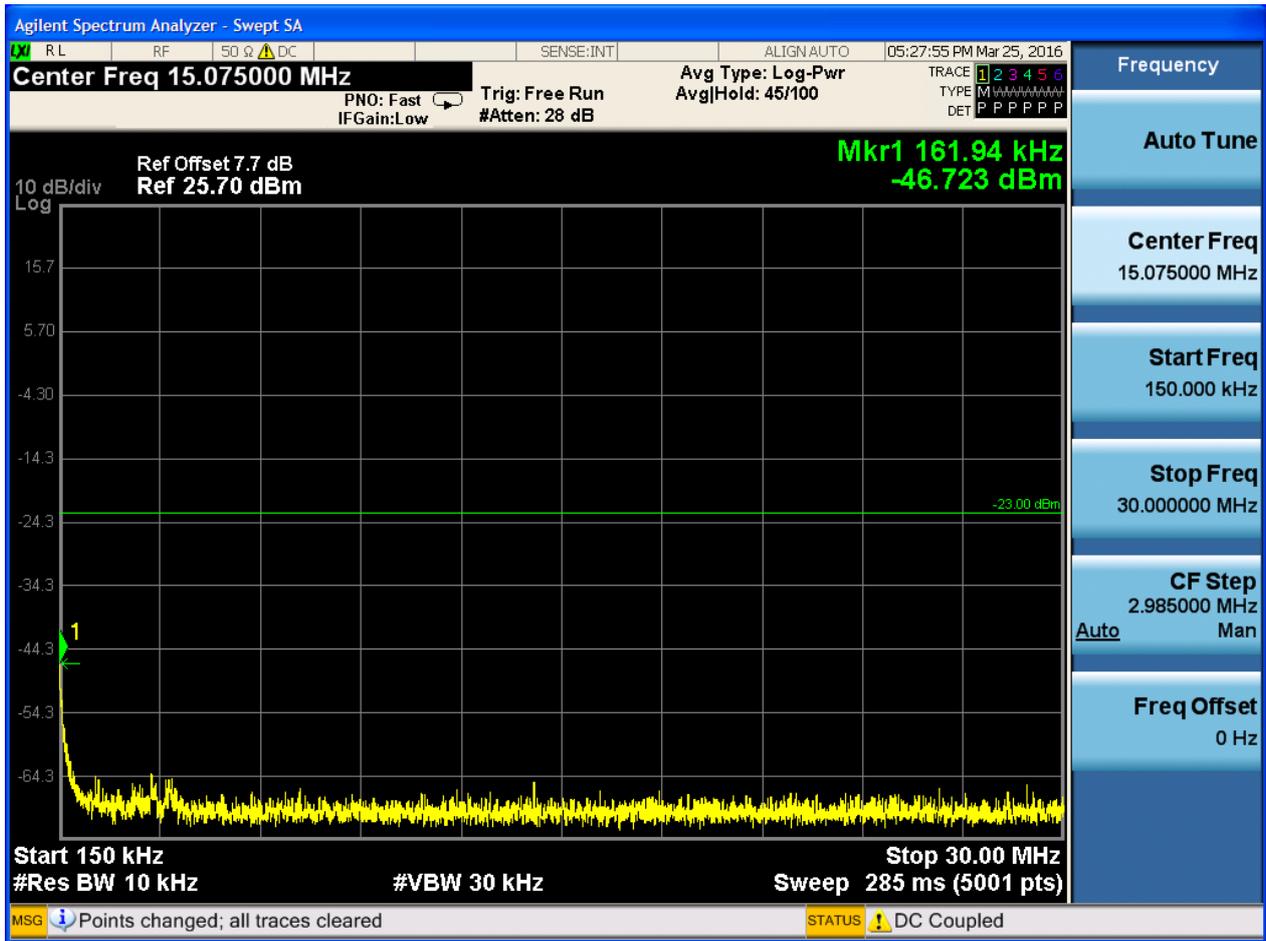


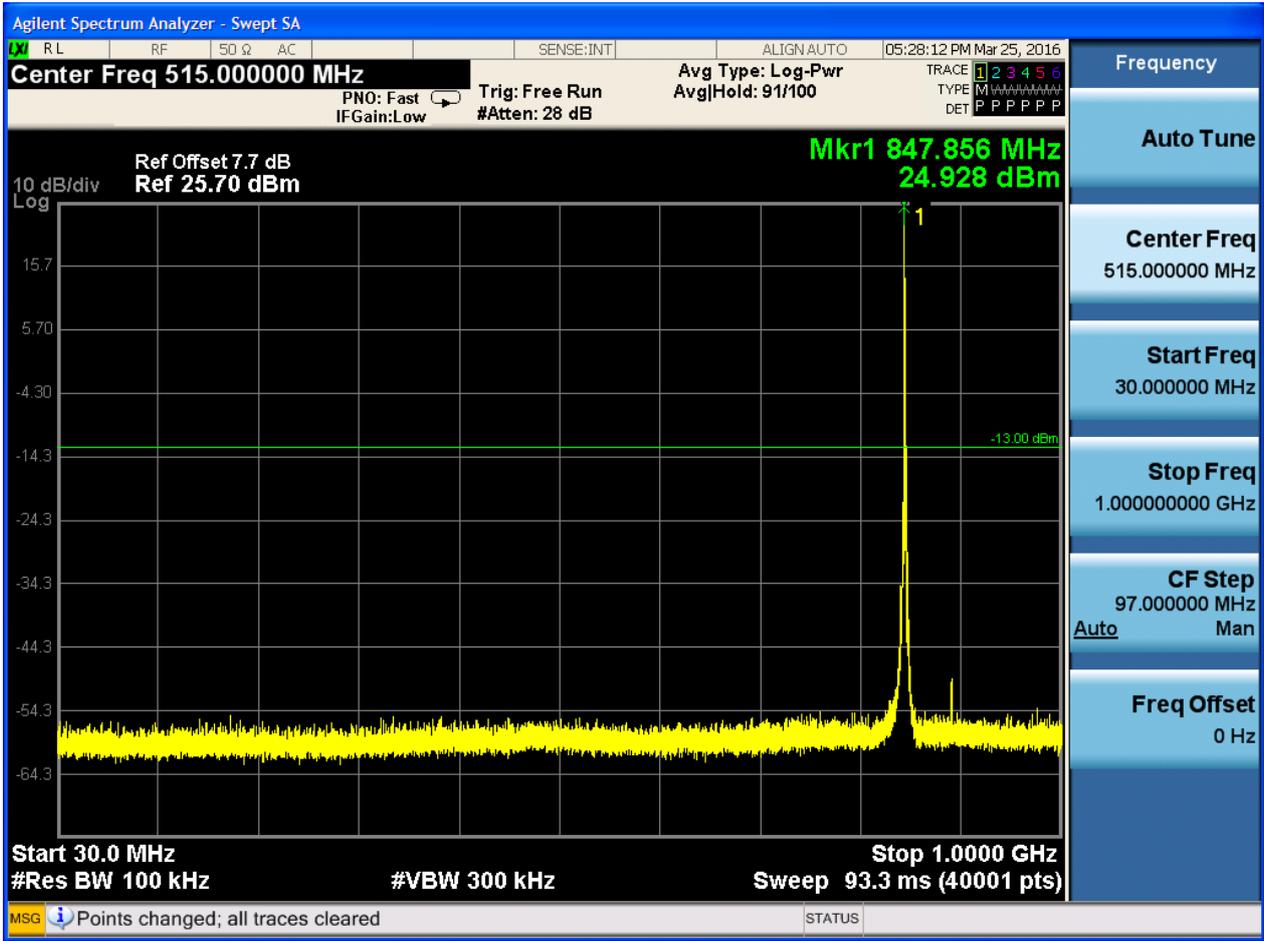


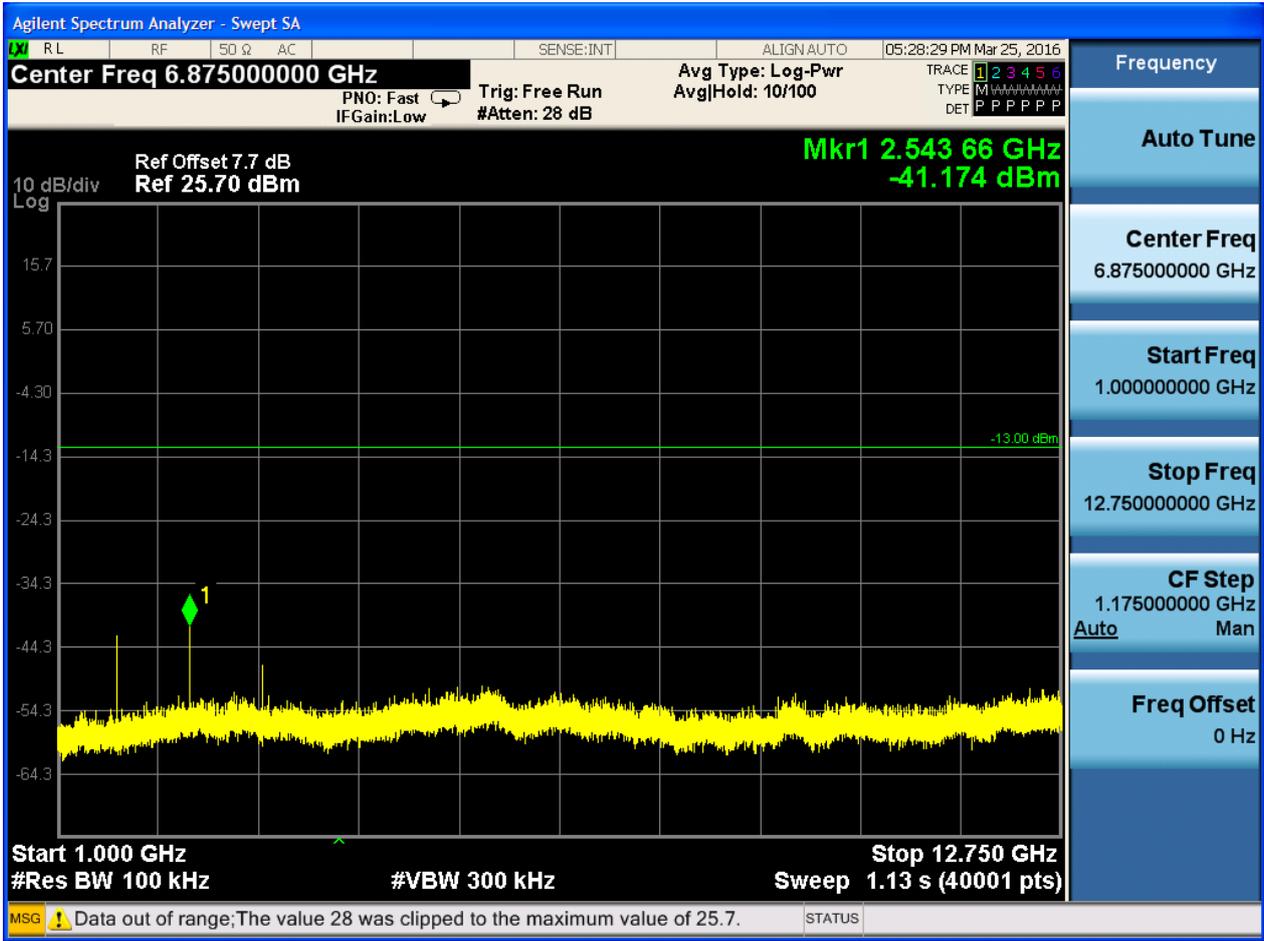














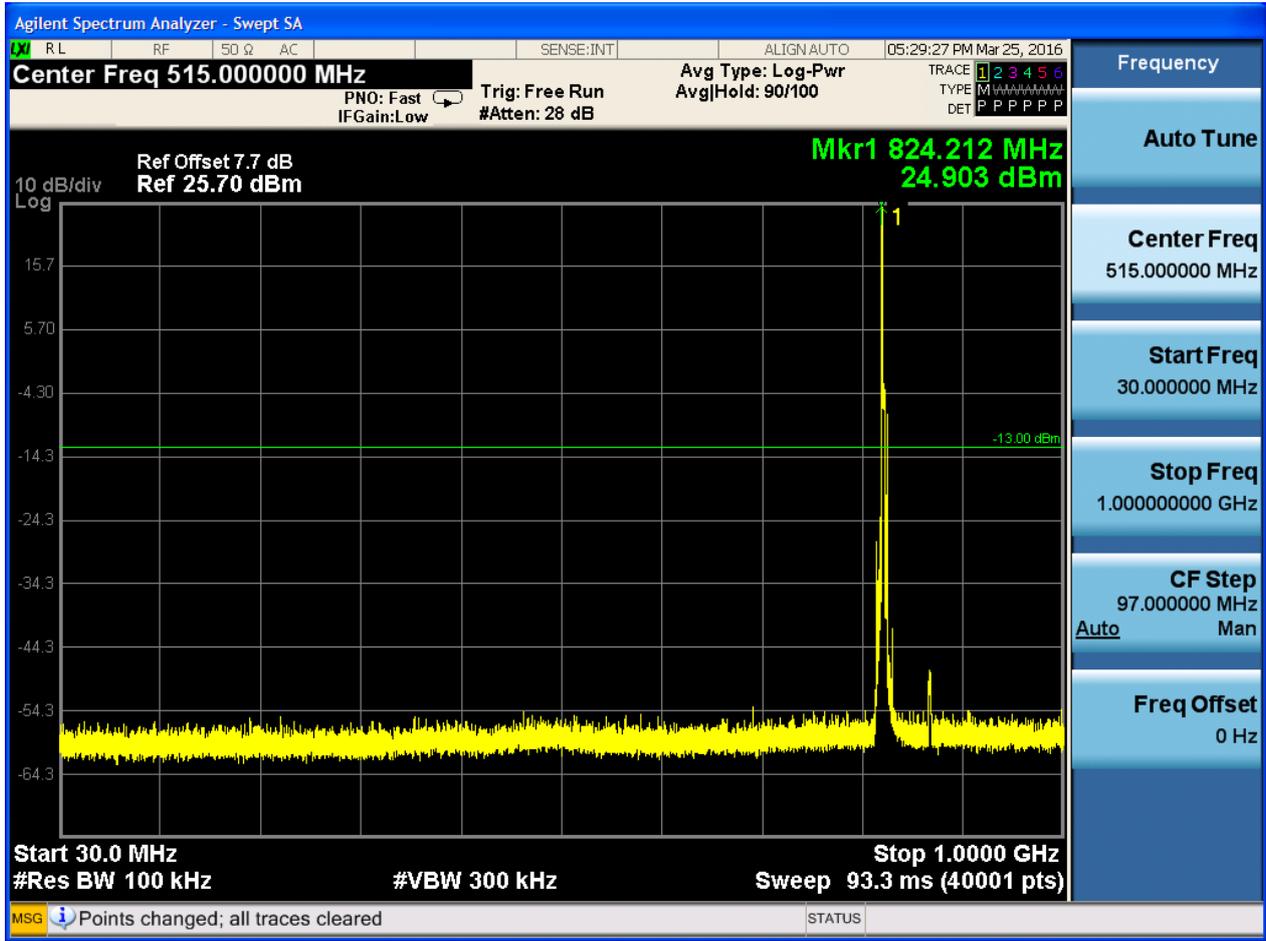
6.1.1.2.2 Test Bandwidth = 3

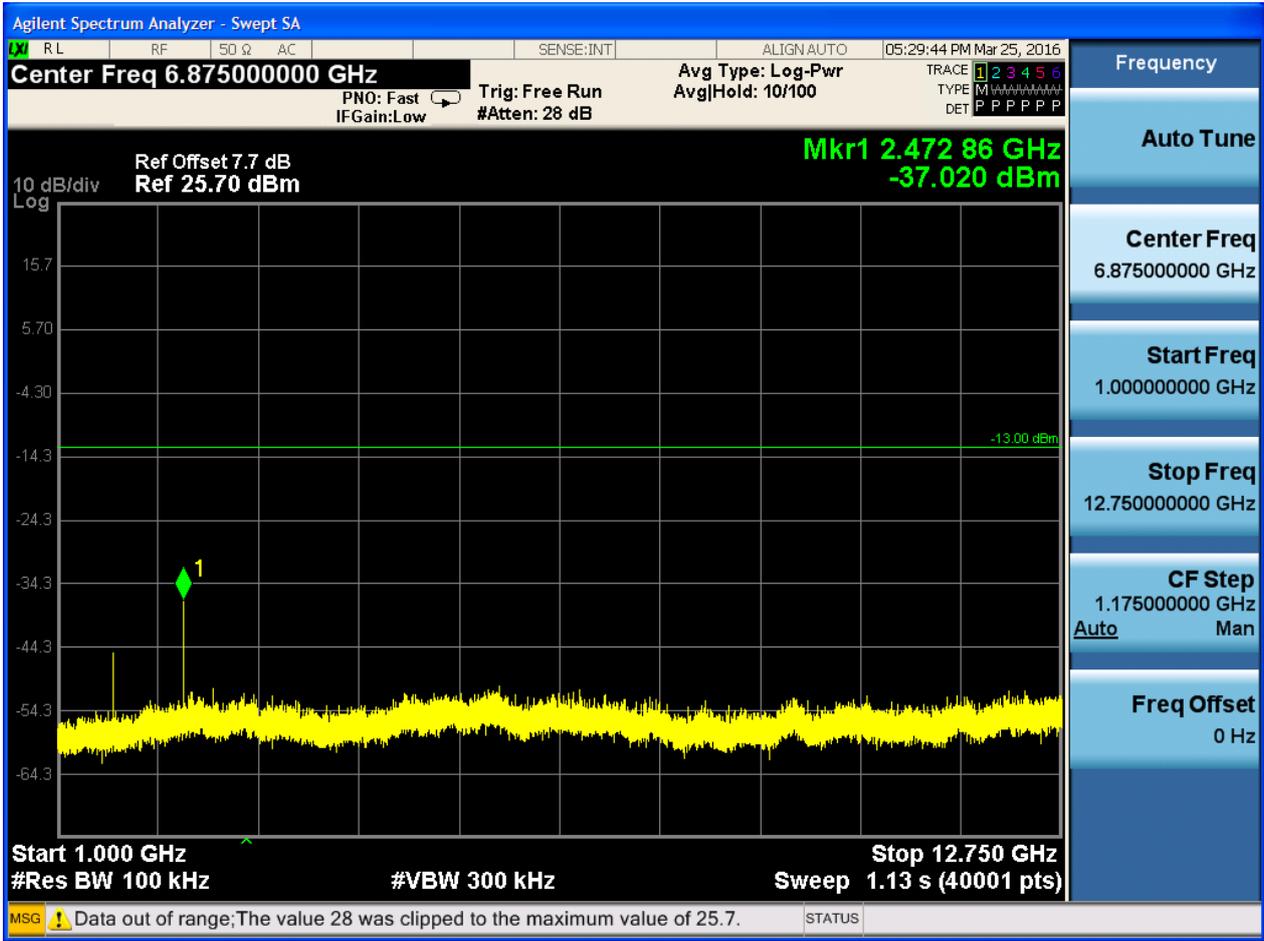
6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0







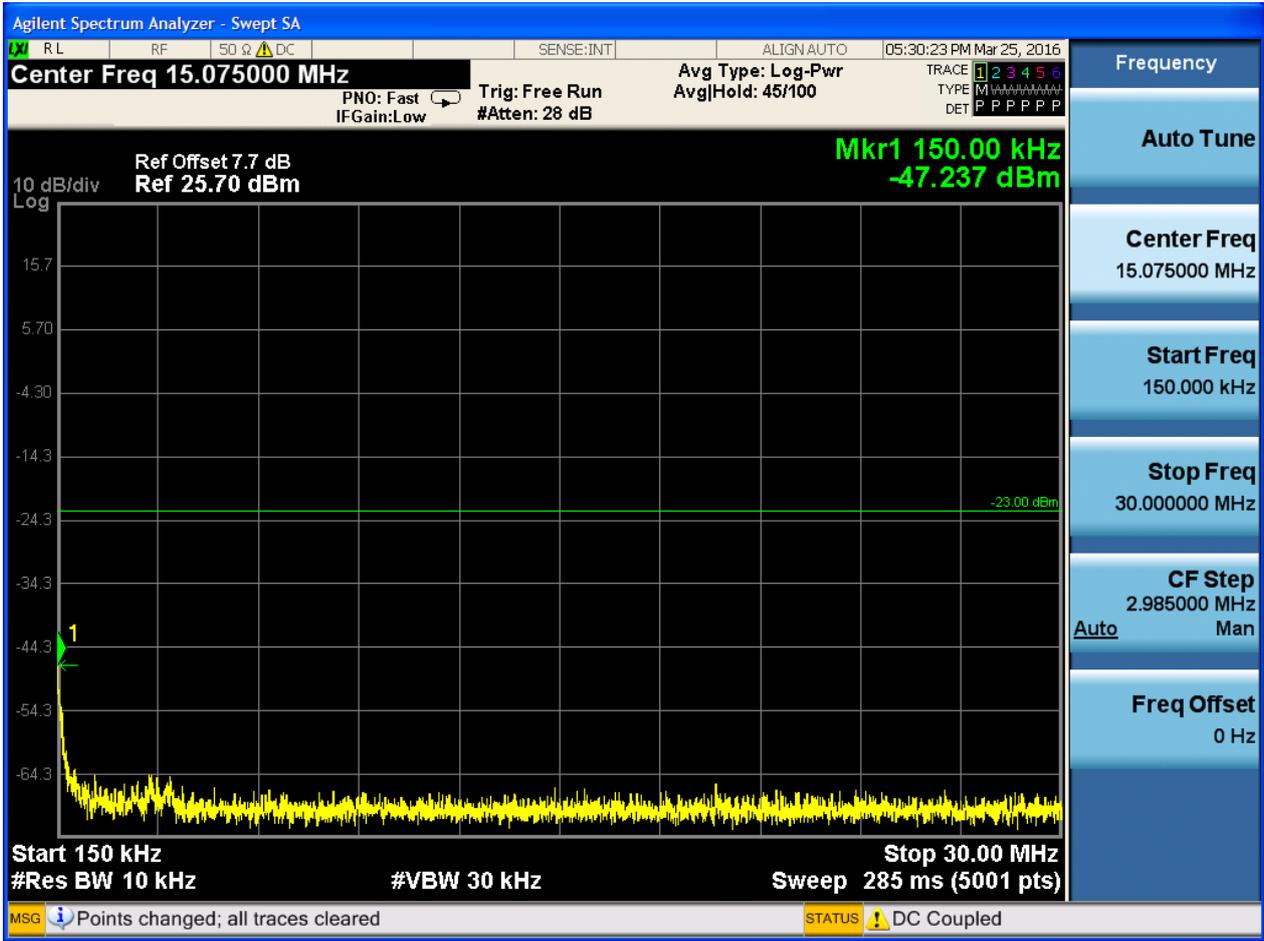




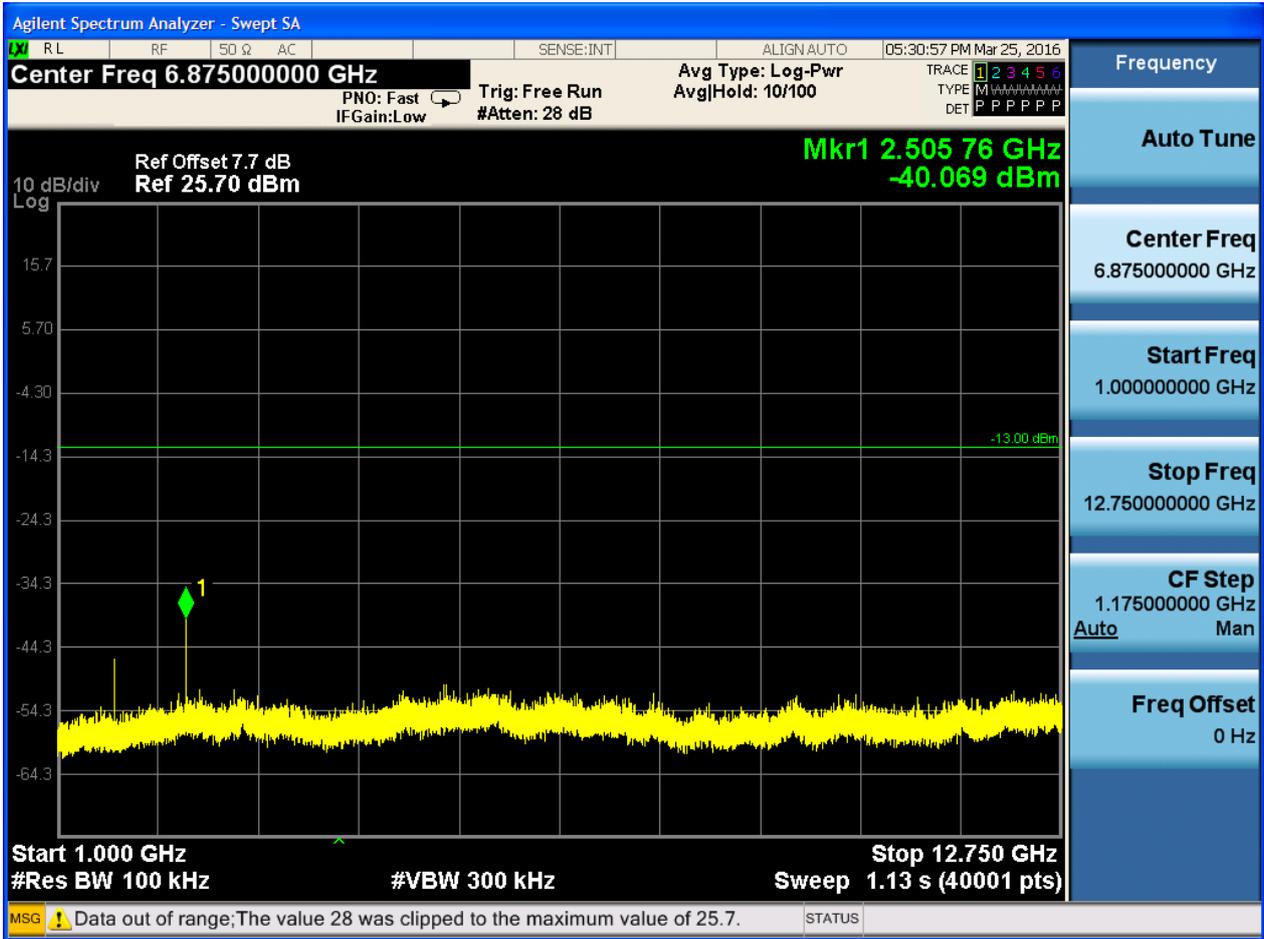
6.1.1.2.2 Test Channel = MCH

6.1.1.2.2.1 Test RB = RB1#0











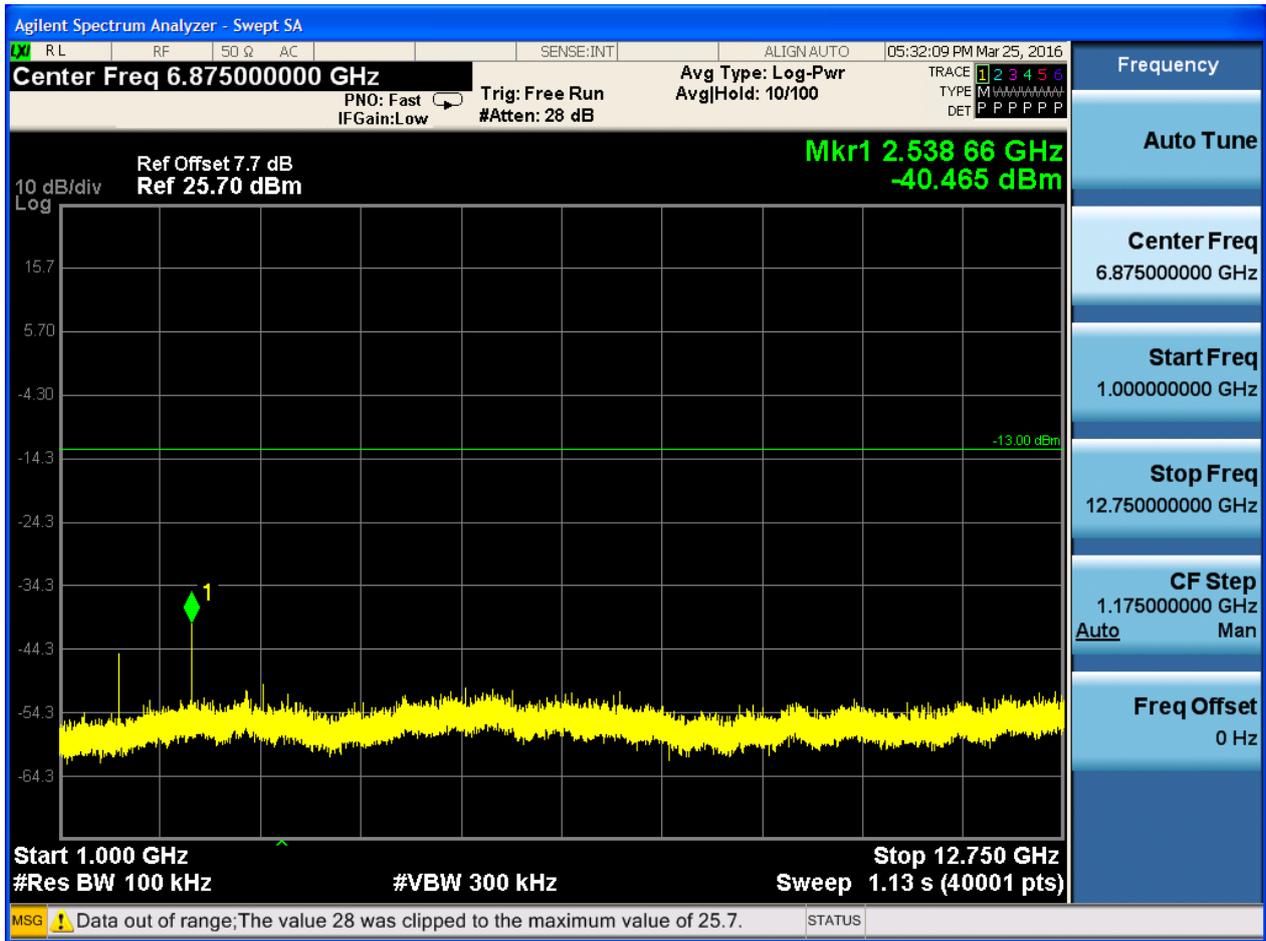
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0











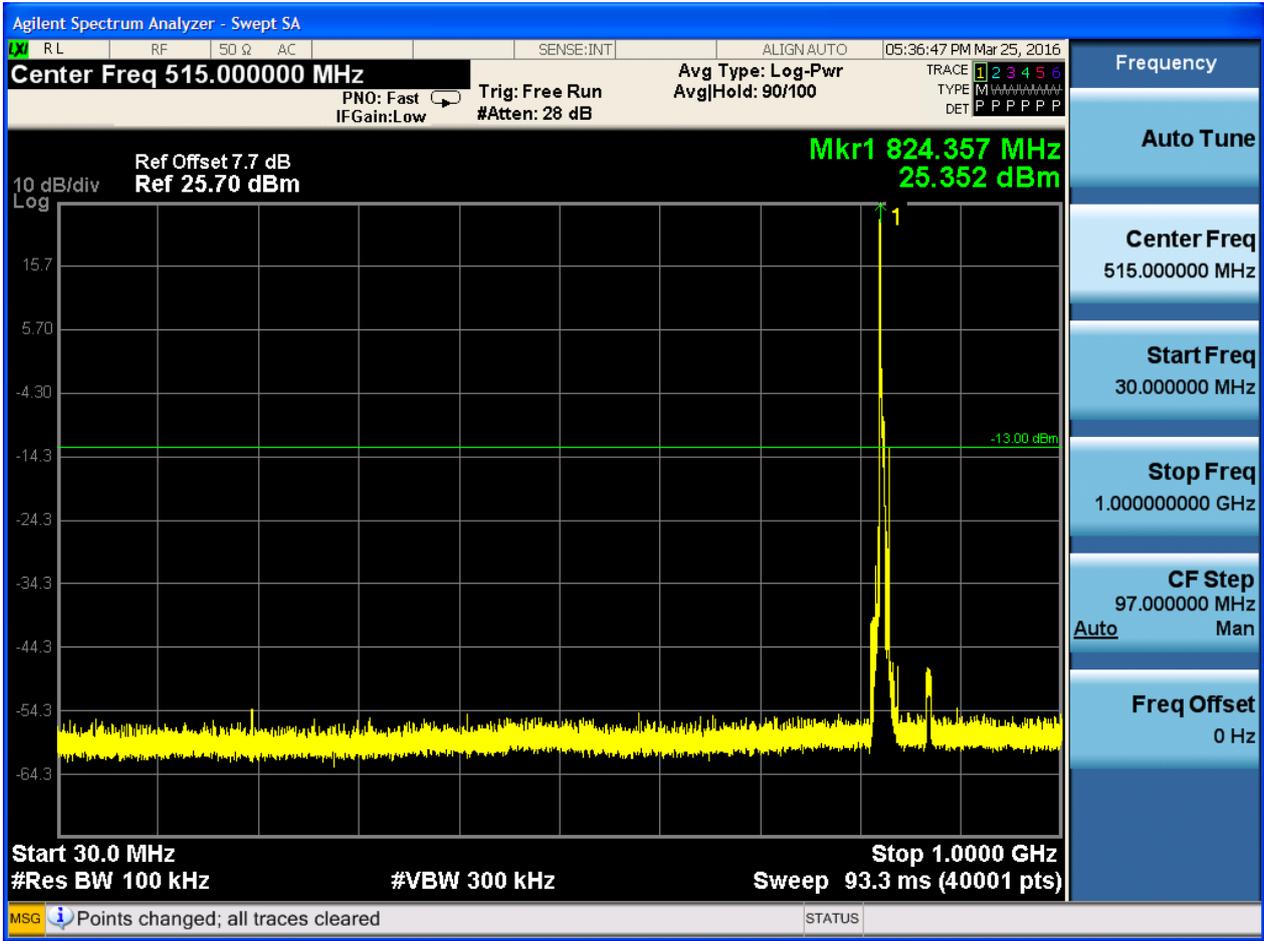
6.1.1.2.3 Test Bandwidth = 5

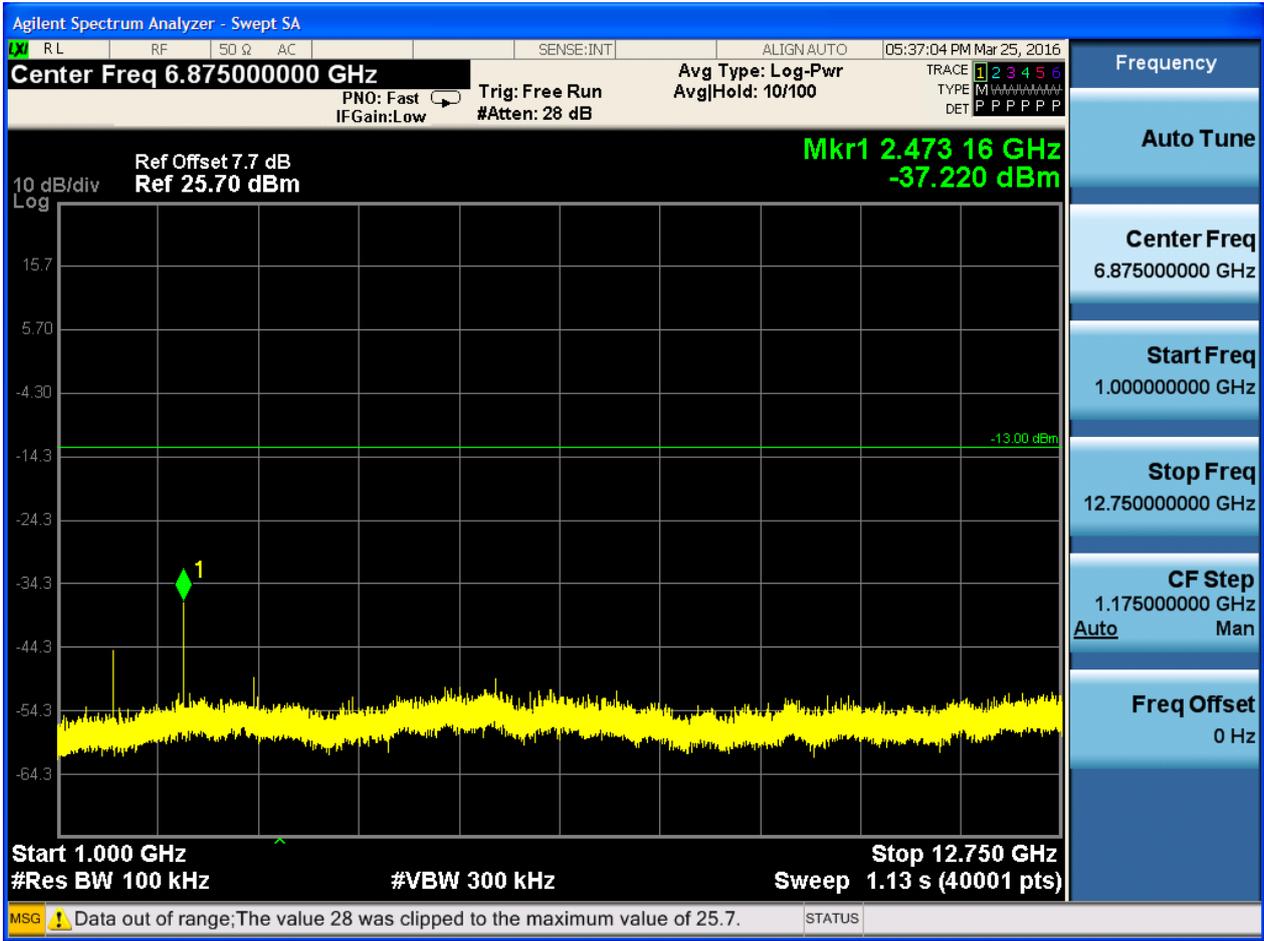
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



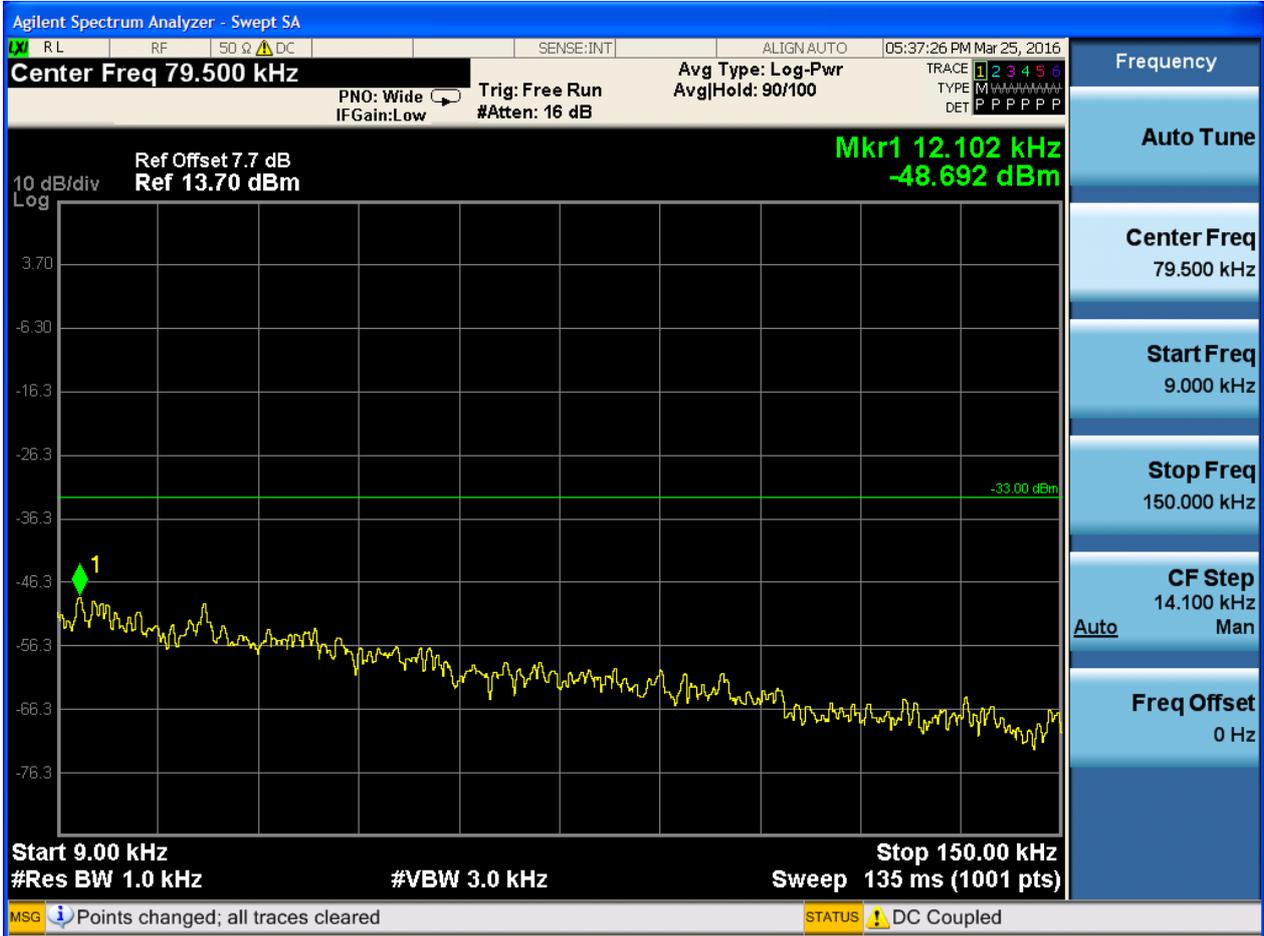


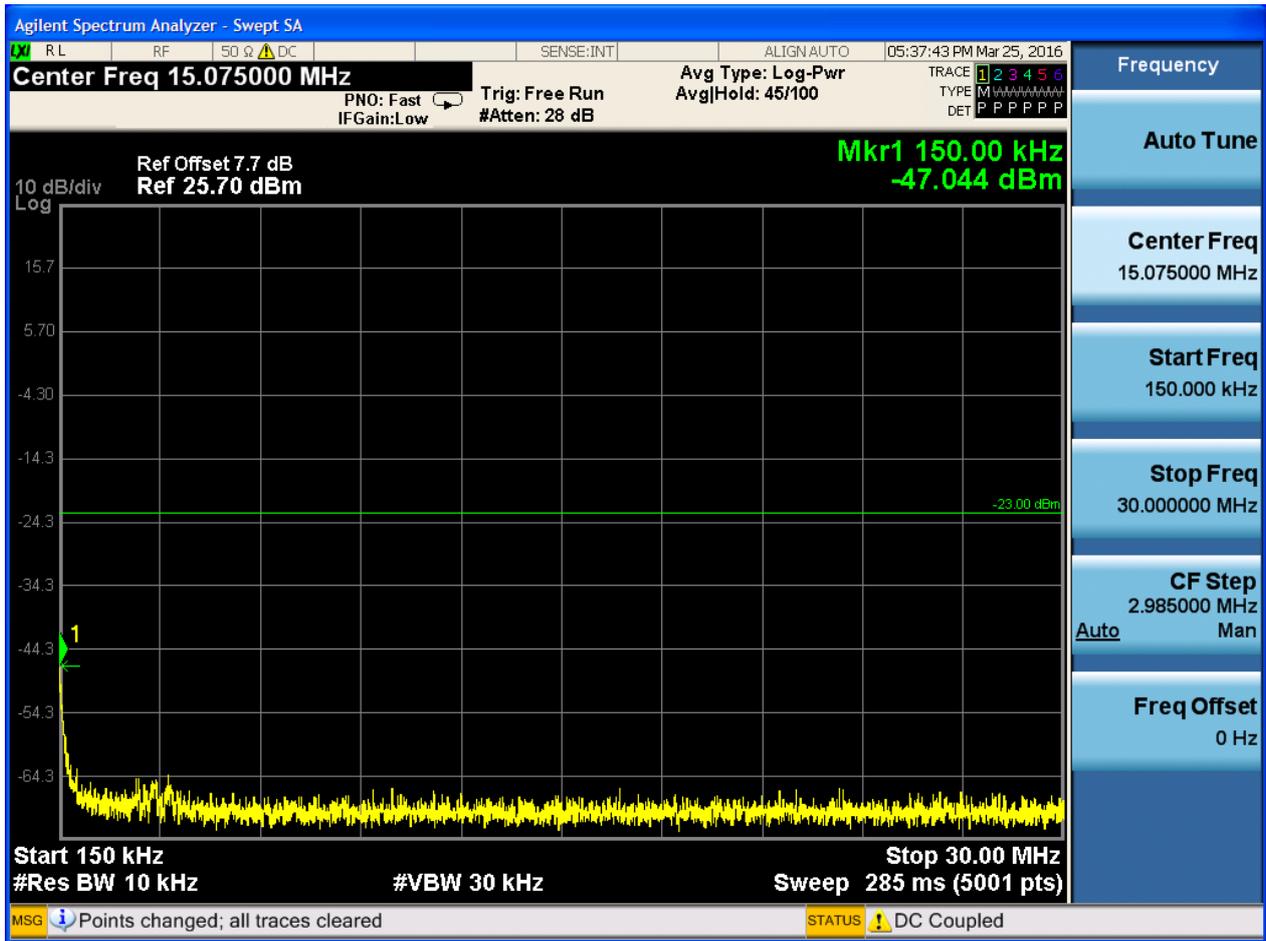


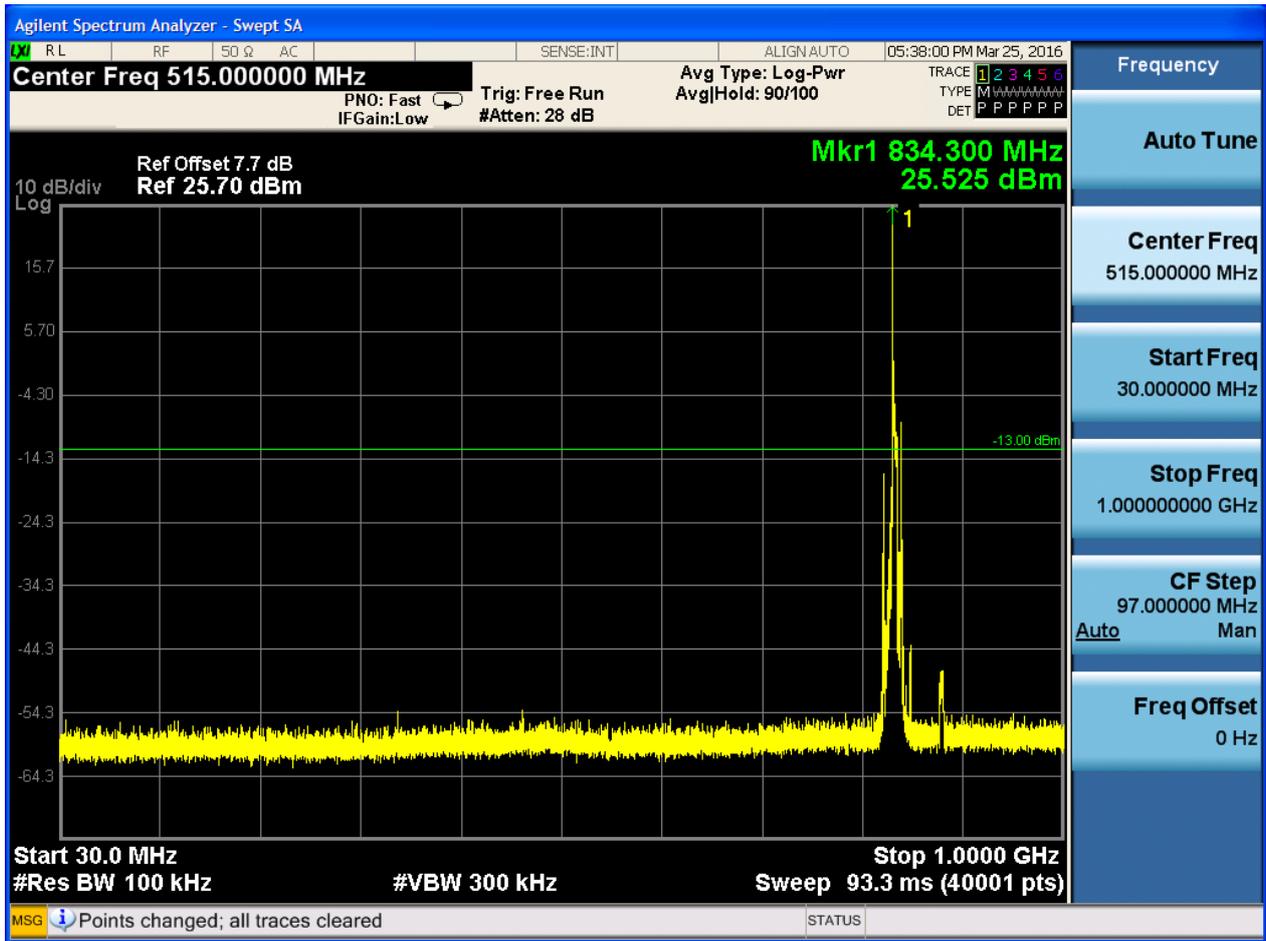


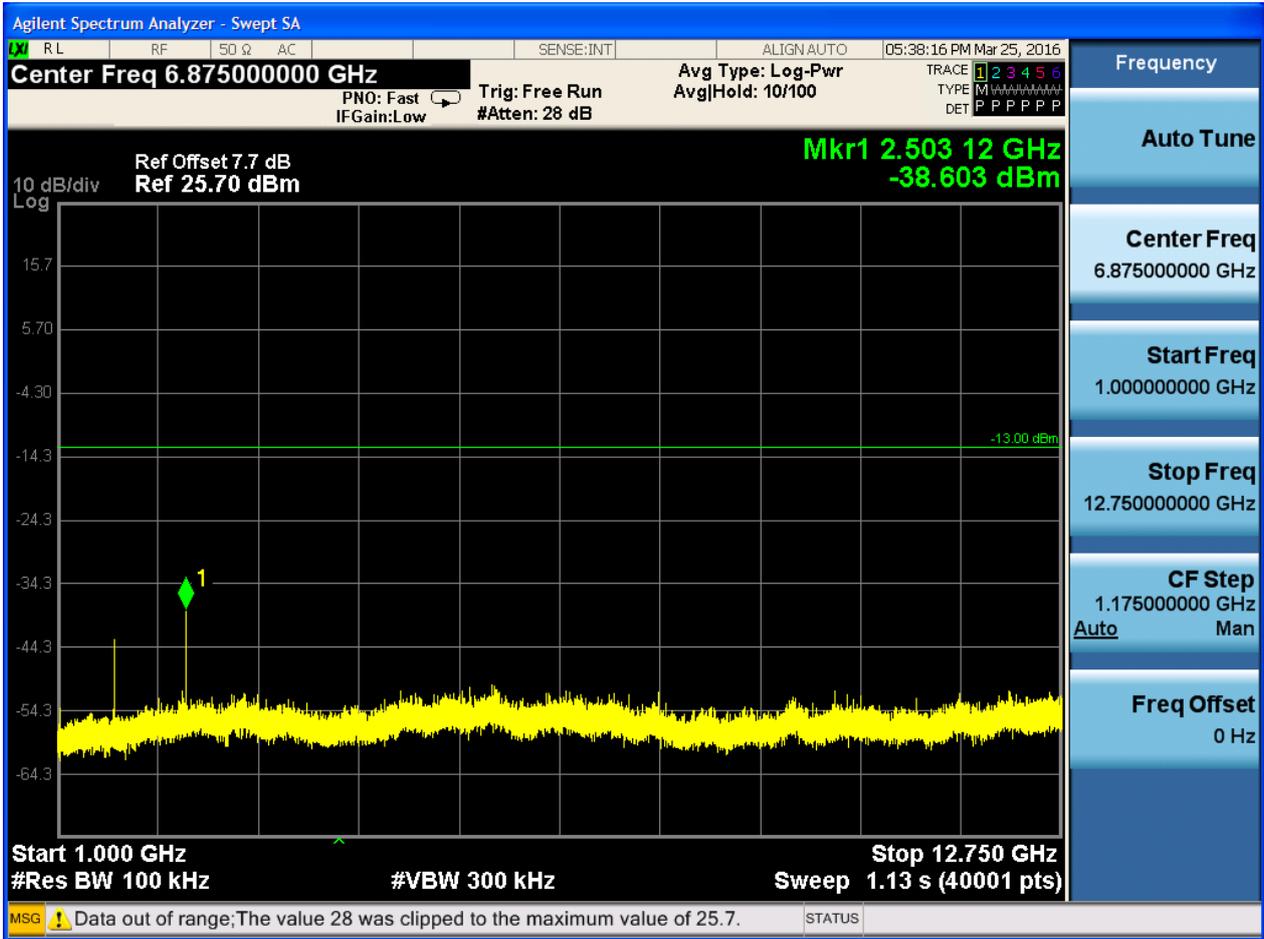
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0





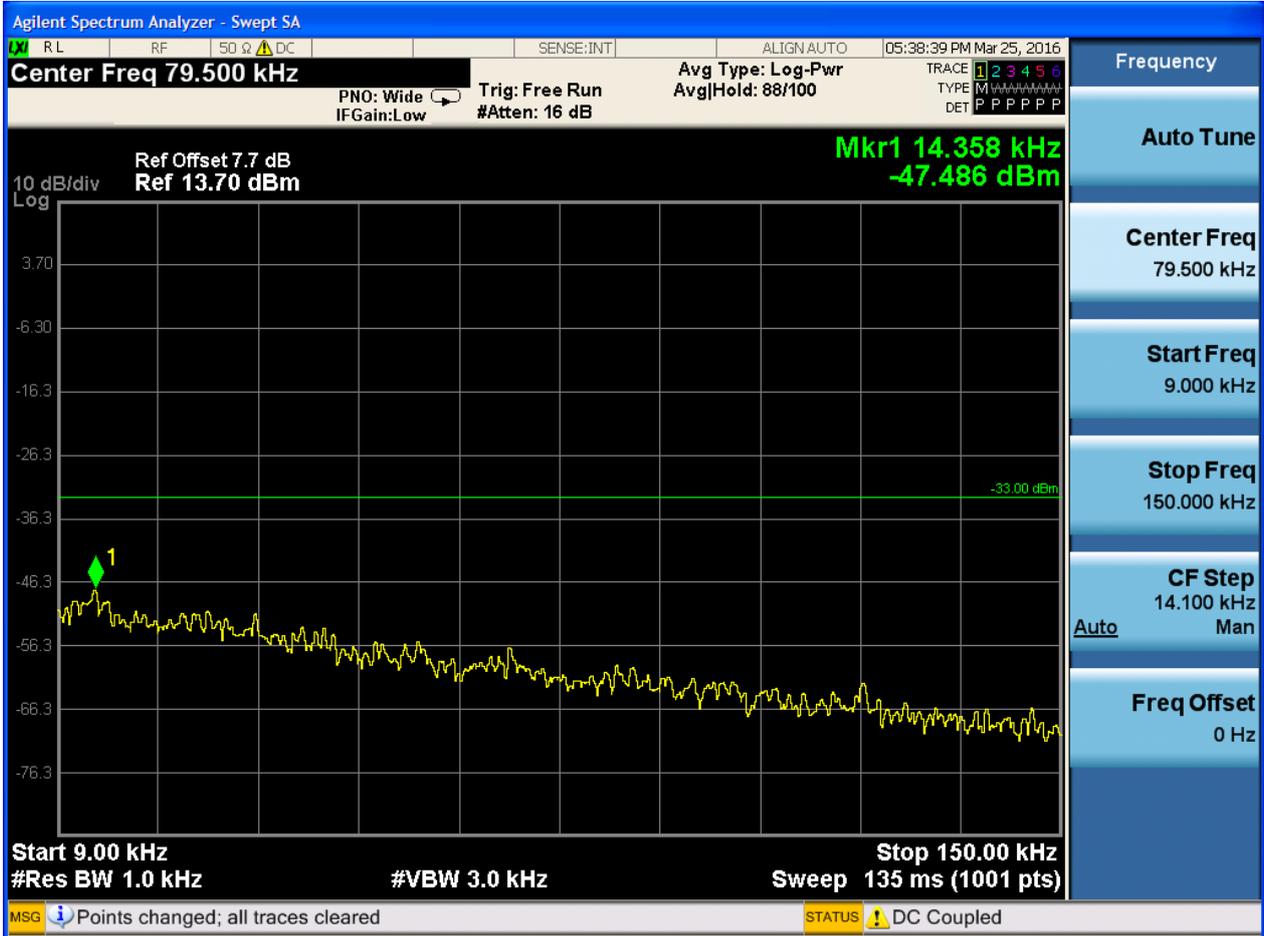


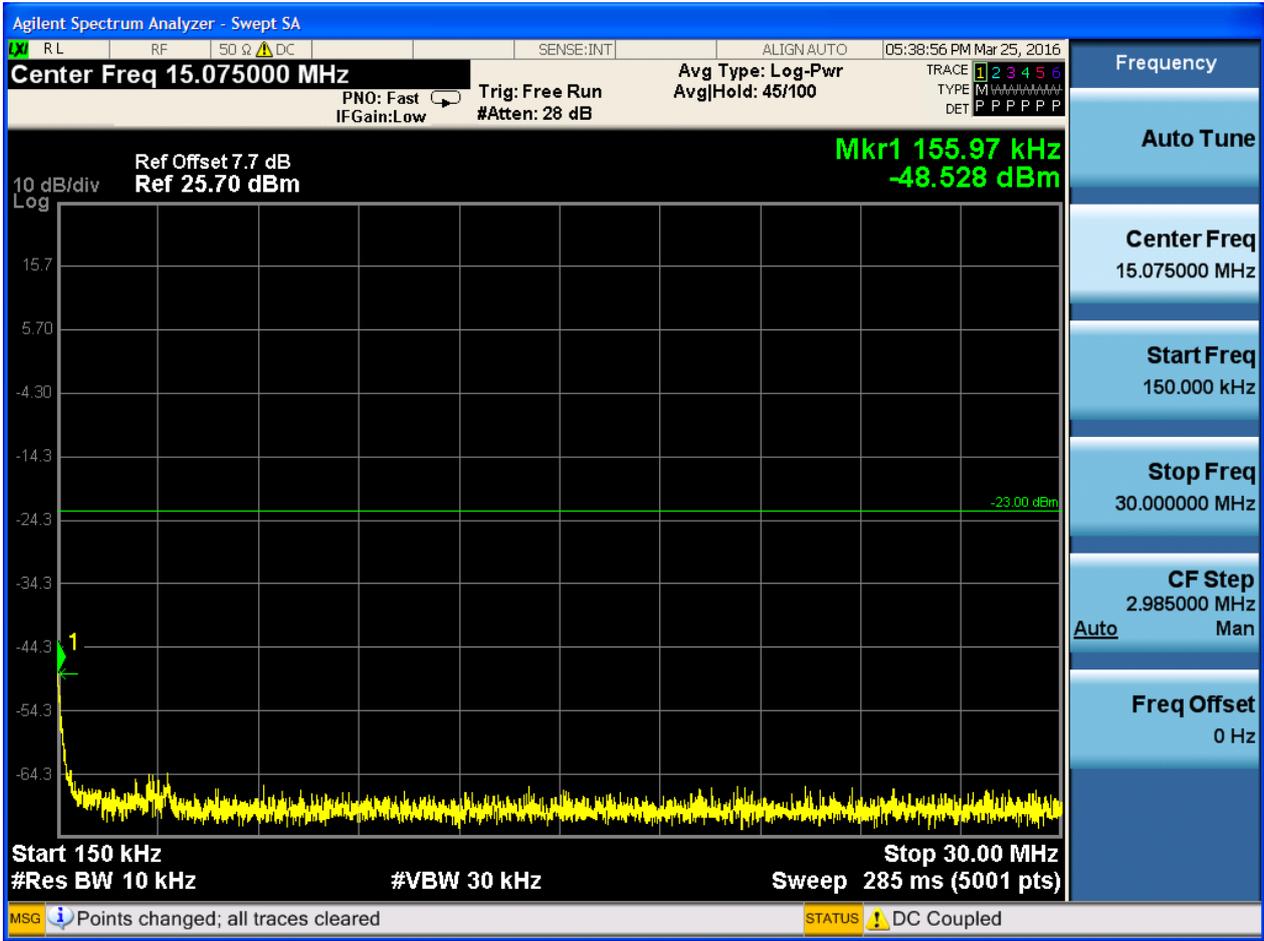




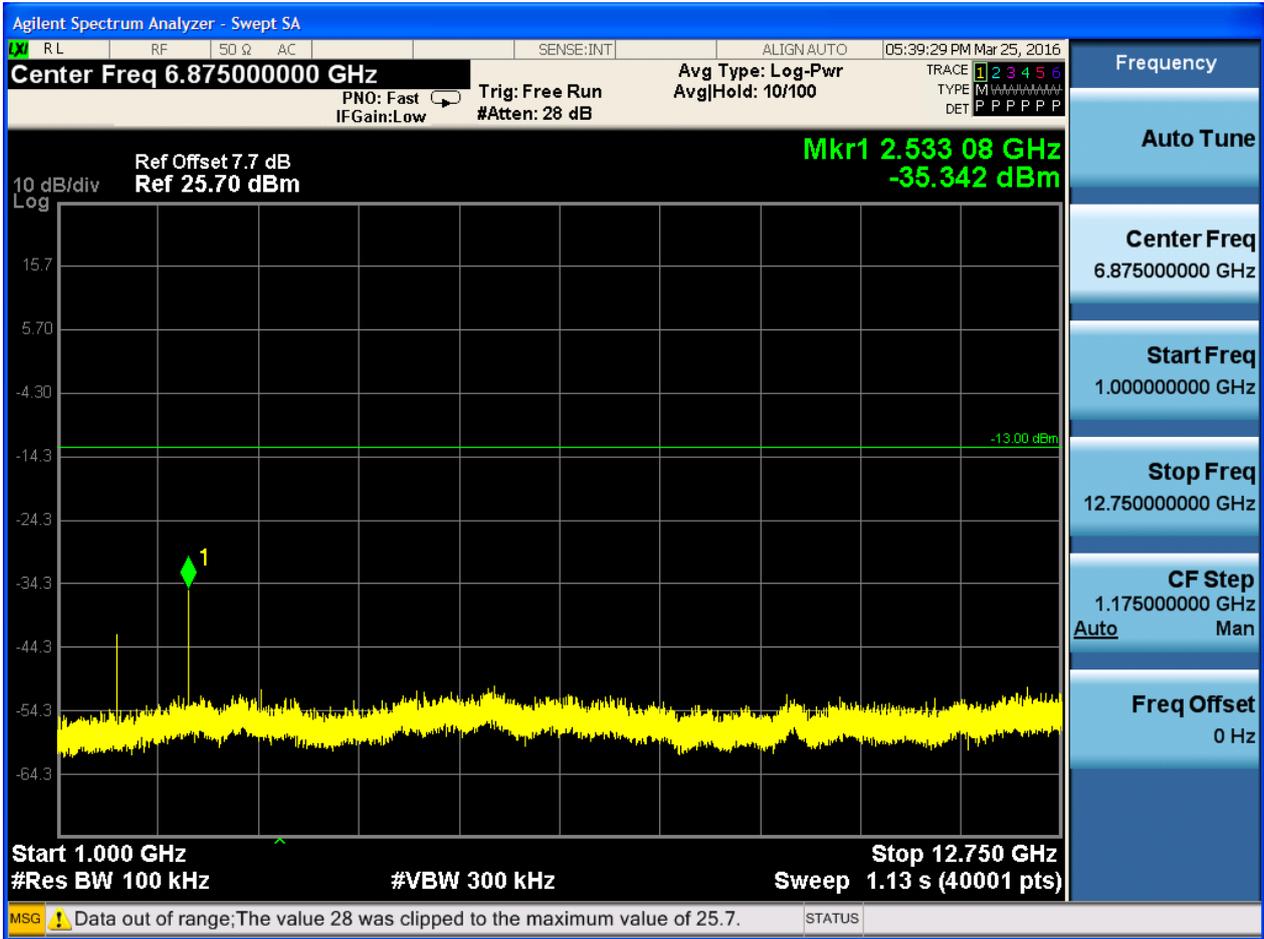
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0









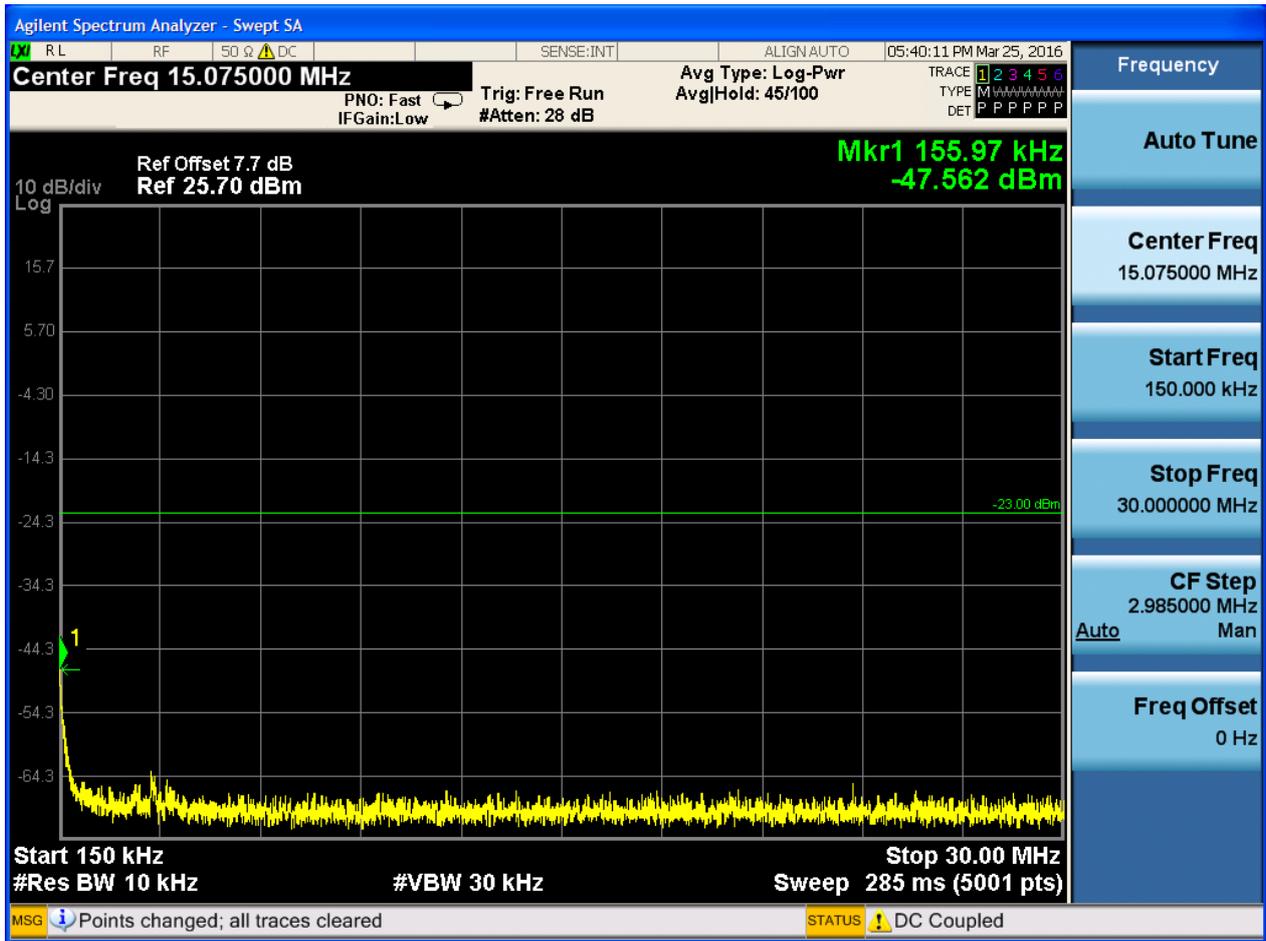


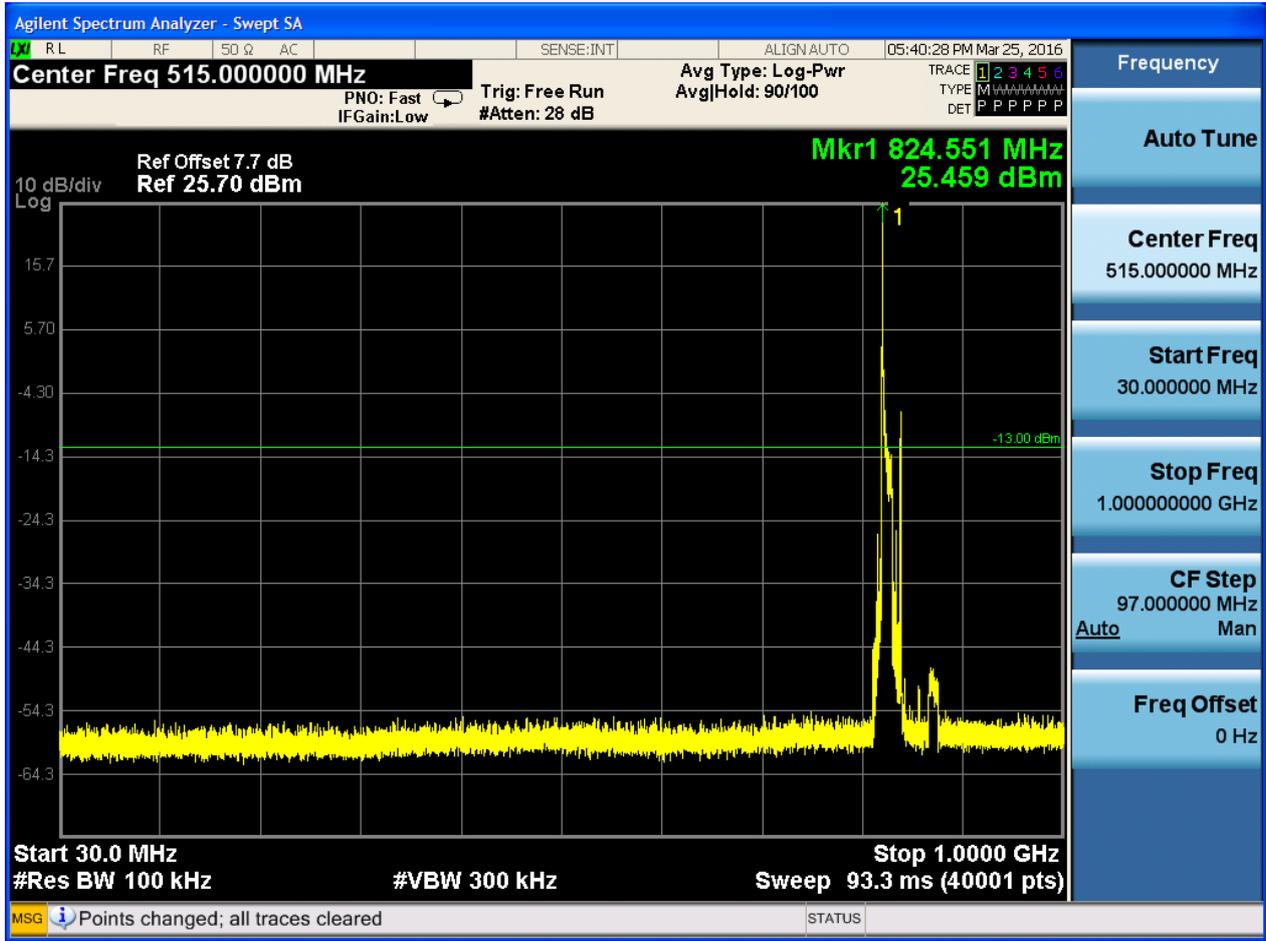
6.1.1.2.4 Test Bandwidth = 10

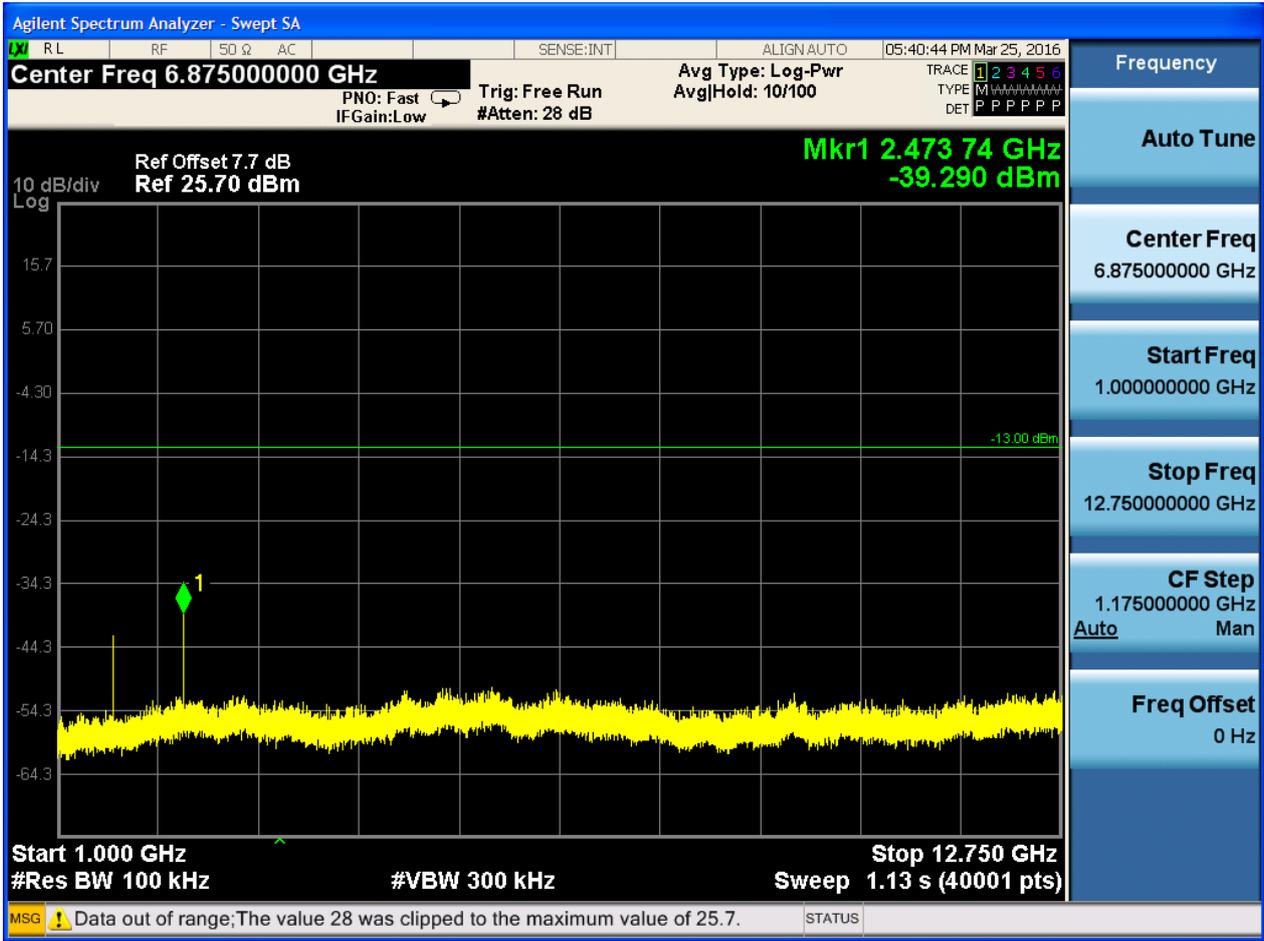
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0









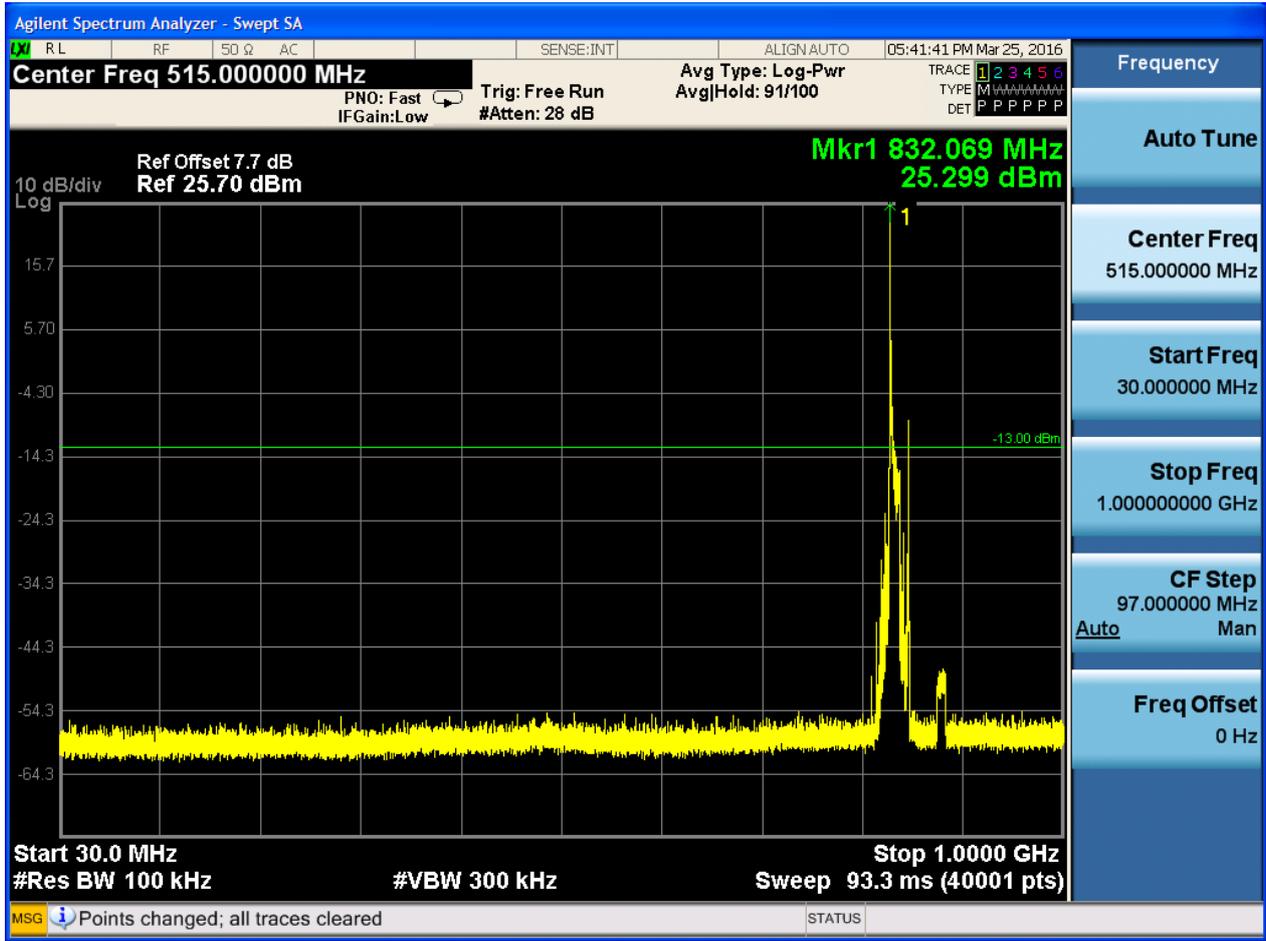


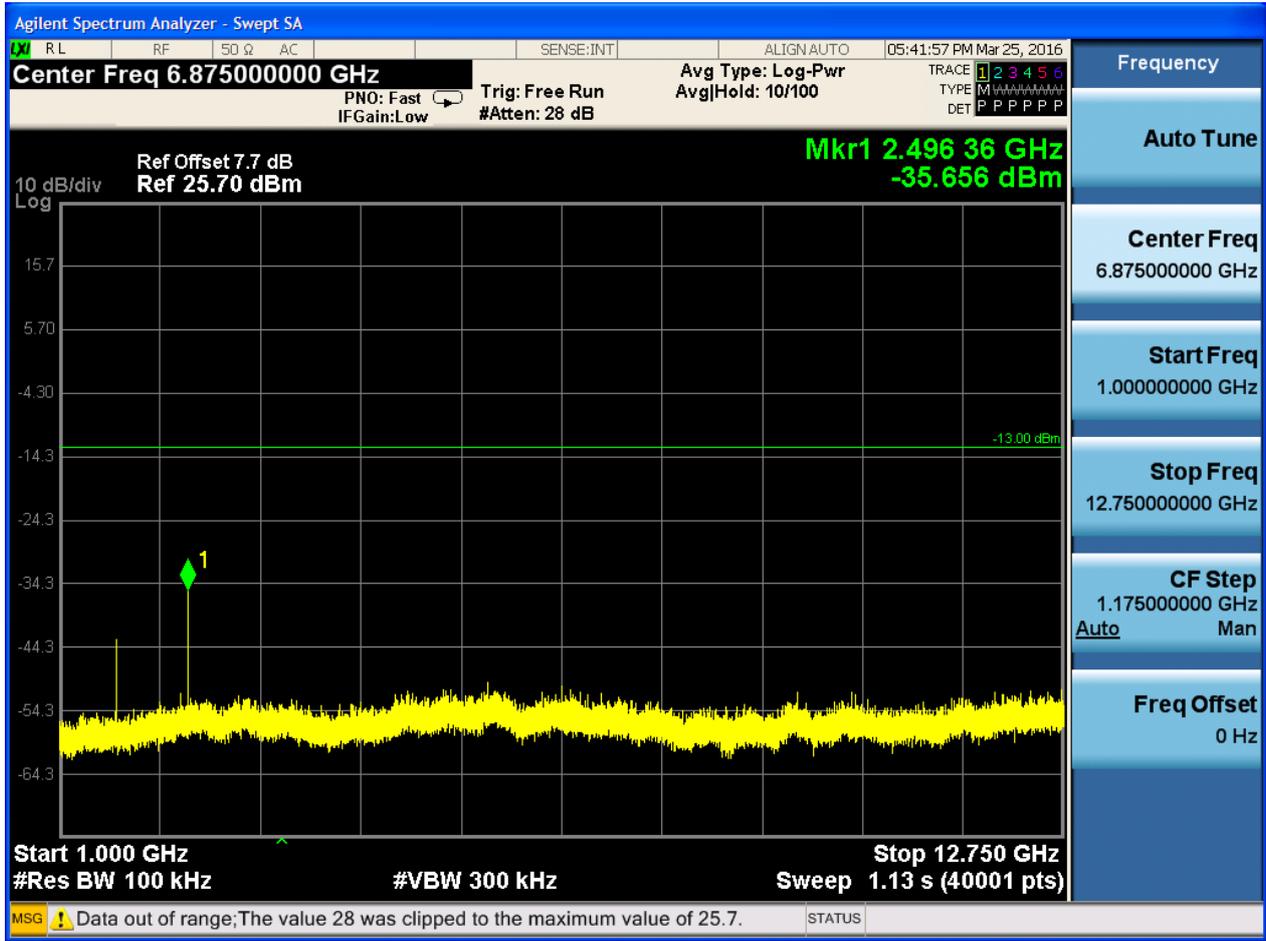
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0









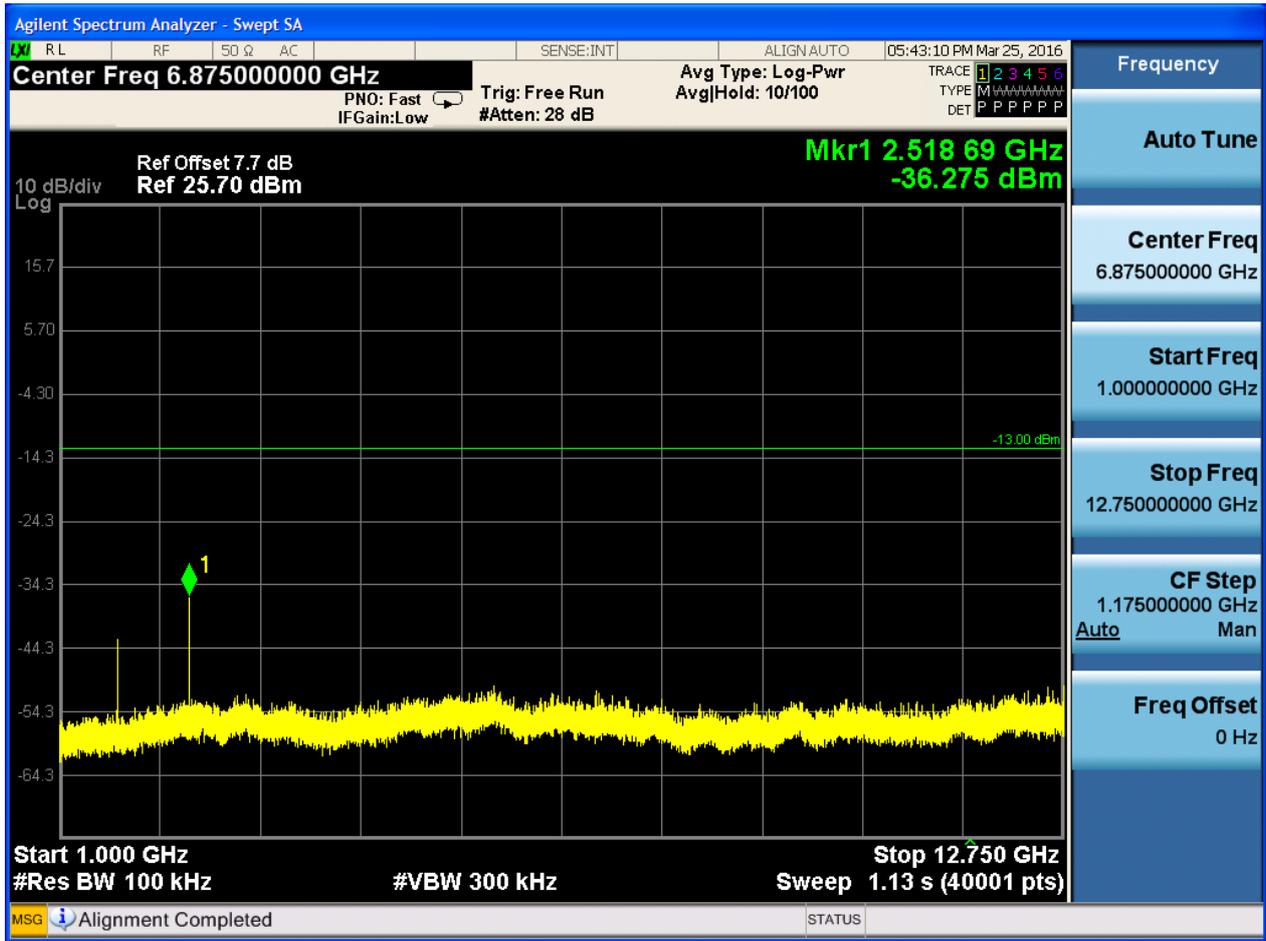
6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0









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

Note:

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

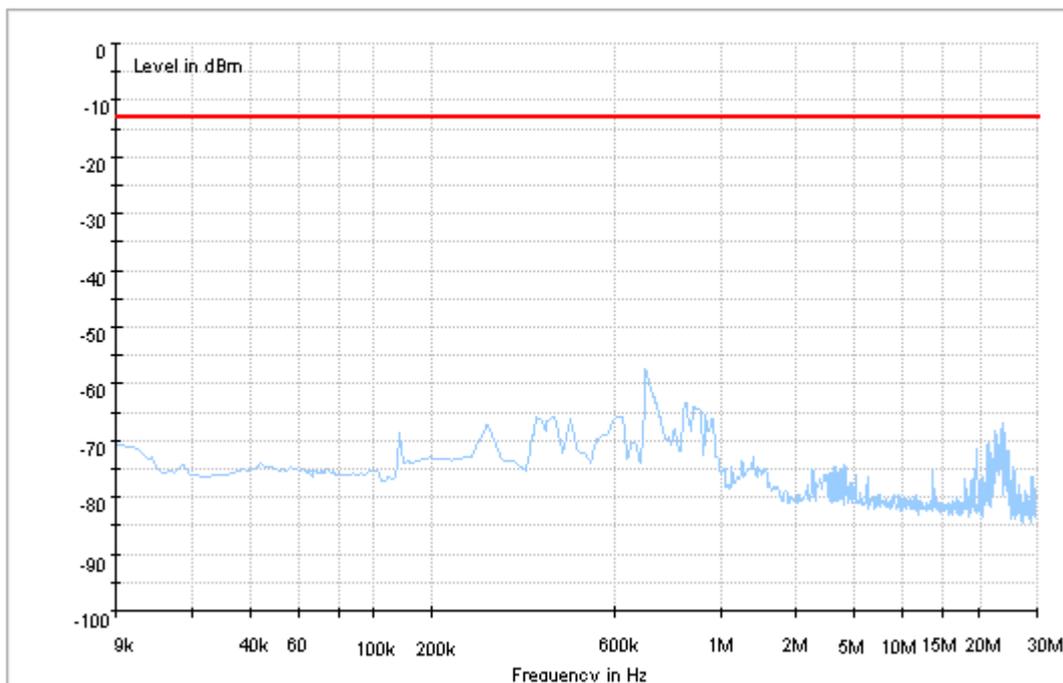
We tested all modes, but the data presented below is the worst case.

### Part I - Test Plots

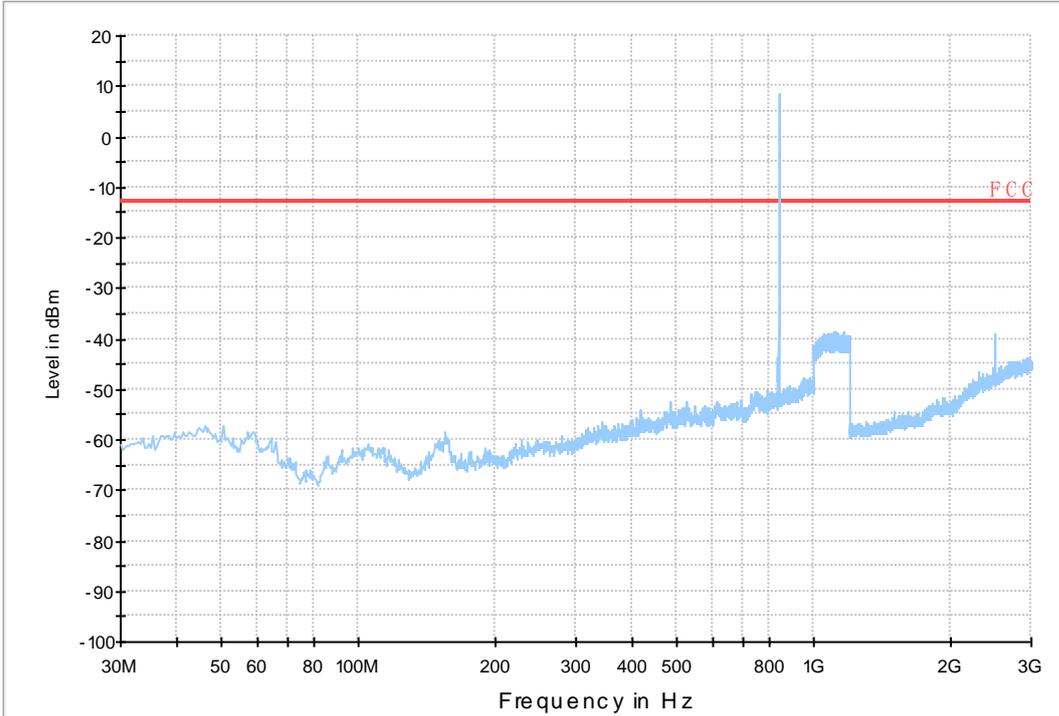
#### 7.1 For LTE

##### 7.1.1 Test Band = BAND5

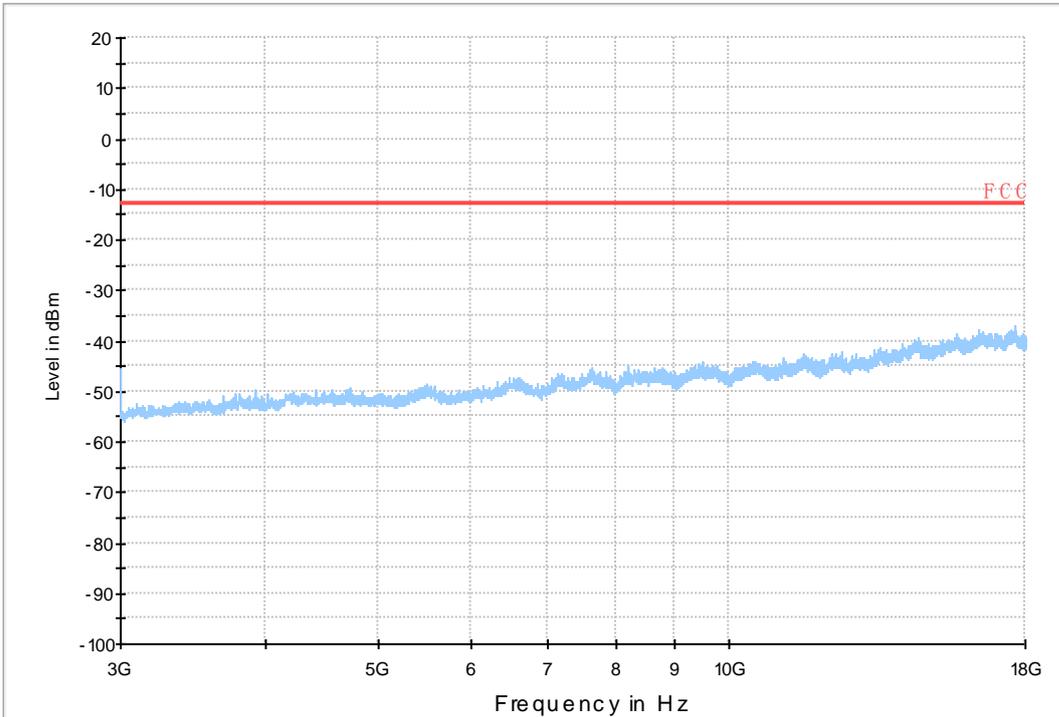
##### 7.1.1.1 Test Bandwidth = 1.4



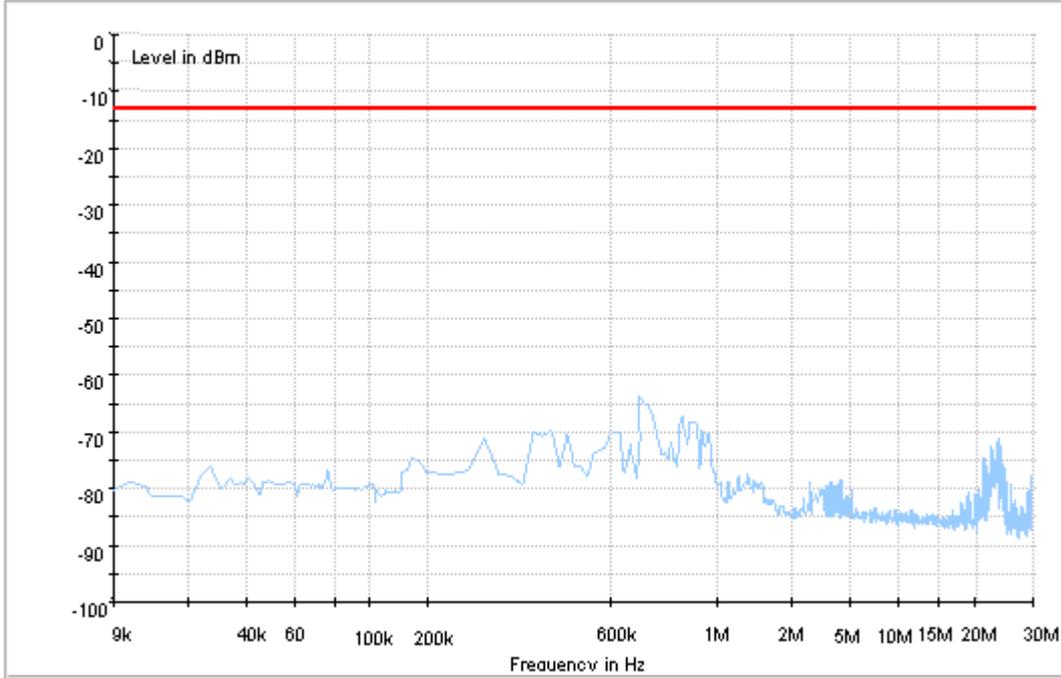
Copy of RSE-TX-DIRECTOR BELOW 1G\_L



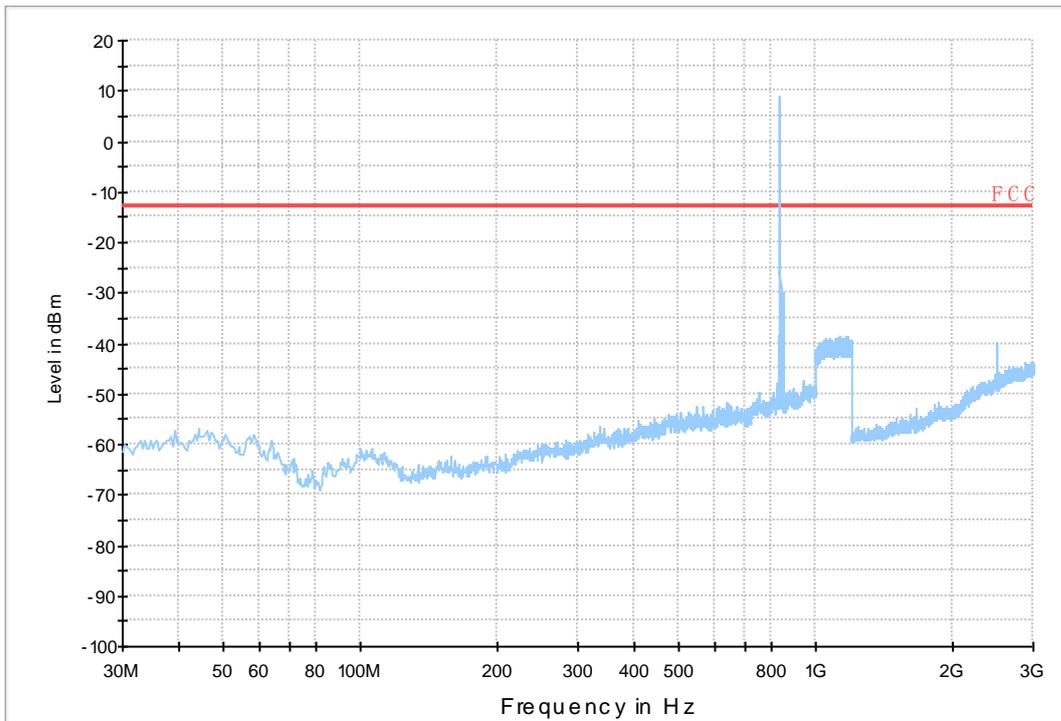
Copy of RSE-TX-DIRECTOR BELOW 1G\_H



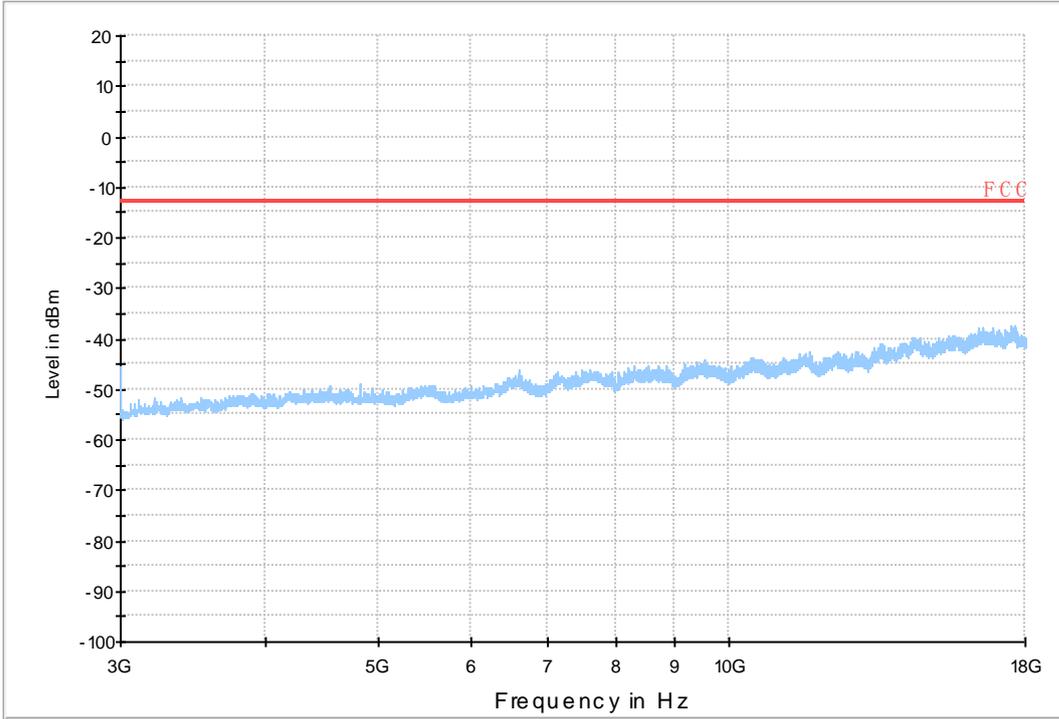
### 7.1.1.2 Test Bandwidth = 10



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	-5.24	-0.00635	PASS
					VN	-5.44	-0.0066	PASS
					VH	-3.79	-0.0046	PASS
			MCH	TN	VL	-16.52	-0.01975	PASS
					VN	-4.92	-0.00588	PASS
					VH	-6.81	-0.00814	PASS
			HCH	TN	VL	-10.24	-0.01207	PASS
					VN	6.11	0.0072	PASS
					VH	2.16	0.00255	PASS
		3	LCH	TN	VL	-3.03	-0.00367	PASS
					VN	-0.94	-0.00114	PASS
					VH	3.1	0.00376	PASS
			MCH	TN	VL	-1.02	-0.00122	PASS
					VN	-0.64	-0.00077	PASS
					VH	-2.36	-0.00282	PASS
			HCH	TN	VL	-4.39	-0.00518	PASS
					VN	-2.63	-0.0031	PASS
					VH	-3.15	-0.00372	PASS
		5	LCH	TN	VL	-2.06	-0.00249	PASS
					VN	2.33	0.00282	PASS
					VH	-3.39	-0.0041	PASS
			MCH	TN	VL	-1	-0.0012	PASS
					VN	-1.26	-0.00151	PASS
					VH	-2.57	-0.00307	PASS
			HCH	TN	VL	0.8	0.00095	PASS
					VN	-1.22	-0.00144	PASS
					VH	3.26	0.00385	PASS
		10	LCH	TN	VL	2.29	0.00276	PASS
					VN	3.32	0.004	PASS
					VH	-0.29	-0.00035	PASS
				MCH	TN	VL	2.95	0.00353

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					VN	1.42	0.0017	PASS		
					VH	-0.93	-0.00111	PASS		
					HCH	TN	VL	-0.8	-0.00095	PASS
							VN	0.03	0.00004	PASS
					VH	-0.53	-0.00063	PASS		
			LCH	TN	VL	8.03	0.00974	PASS		
					VN	-6.75	-0.00818	PASS		
					VH	4.22	0.00512	PASS		
			1.4	MCH	TN	VL	32.62	0.039	PASS	
						VN	-10.71	-0.0128	PASS	
	VH	-29.7				-0.03551	PASS			
	HCH	TN		VL	-2.1	-0.00248	PASS			
				VN	-2.12	-0.0025	PASS			
				VH	-9.76	-0.01151	PASS			
	3	LCH	TN	VL	-1.34	-0.00162	PASS			
				VN	-1.42	-0.00172	PASS			
				VH	-16.57	-0.02007	PASS			
		MCH	TN	VL	-2.57	-0.00307	PASS			
				VN	-0.21	-0.00025	PASS			
				VH	-1.29	-0.00154	PASS			
		HCH	TN	VL	-1.95	-0.0023	PASS			
				VN	-0.66	-0.00078	PASS			
				VH	-6.29	-0.00742	PASS			
	5	LCH	TN	VL	-2.7	-0.00327	PASS			
				VN	0.54	0.00065	PASS			
				VH	-3.28	-0.00397	PASS			
		MCH	TN	VL	-2.75	-0.00329	PASS			
				VN	-2.92	-0.00349	PASS			
				VH	2.27	0.00271	PASS			
		HCH	TN	VL	-4.19	-0.00495	PASS			
				VN	0.66	0.00078	PASS			
				VH	1.39	0.00164	PASS			
	10	LCH	TN	VL	5.87	0.00708	PASS			
				VN	-2.4	-0.0029	PASS			
				VH	2.52	0.00304	PASS			
		MCH	TN	VL	1.53	0.00183	PASS			
				VN	1.17	0.0014	PASS			
				VH	-5.95	-0.00711	PASS			
		HCH	TN	VL	-1.04	-0.00123	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-0.13	-0.00015	PASS
					VH	0.21	0.00025	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	4.42	0.00536	PASS
					-20	-7.27	-0.00882	PASS
					-10	-12.97	-0.01573	PASS
					0	-9.6	-0.01164	PASS
					10	9.97	0.01209	PASS
					20	-4.36	-0.00529	PASS
					30	-5.24	-0.00635	PASS
					40	-7.98	-0.00968	PASS
			50	-32.04	-0.03885	PASS		
			MCH	VN	-30	-2.25	-0.00269	PASS
					-20	-11.72	-0.01401	PASS
					-10	-10.27	-0.01228	PASS
					0	-12.87	-0.01539	PASS
					10	0.96	0.00115	PASS
					20	-8.35	-0.00998	PASS
					30	5.41	0.00647	PASS
					40	2.92	0.00349	PASS
			50	-12.26	-0.01466	PASS		
			HCH	VN	-30	-5.19	-0.00612	PASS
					-20	1.59	0.00187	PASS
					-10	0.94	0.00111	PASS
					0	-5.01	-0.00591	PASS
					10	-9.67	-0.0114	PASS
					20	2.25	0.00265	PASS
		30			-2.32	-0.00273	PASS	
		40			0.39	0.00046	PASS	
		50	6.34	0.00747	PASS			
		3	LCH	VN	-30	-3.76	-0.00455	PASS
					-20	-0.5	-0.00061	PASS
					-10	-0.11	-0.00013	PASS
					0	-0.63	-0.00076	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	6.82	0.00826	PASS
					20	-6.52	-0.0079	PASS
					30	-3	-0.00363	PASS
					40	1.1	0.00133	PASS
					50	-0.21	-0.00025	PASS
			MCH	VN	-30	-1.47	-0.00176	PASS
					-20	0.4	0.00048	PASS
					-10	0.06	0.00007	PASS
					0	-0.69	-0.00082	PASS
					10	1.14	0.00136	PASS
					20	0.1	0.00012	PASS
					30	-2.1	-0.00251	PASS
					40	-1.34	-0.0016	PASS
					50	-1.3	-0.00155	PASS
					HCH	VN	-30	-1.59
			-20	-4.13			-0.00487	PASS
			-10	-2.66			-0.00314	PASS
			0	0.8			0.00094	PASS
			10	-2.1			-0.00248	PASS
			20	-3.03			-0.00358	PASS
		30	2.98	0.00352			PASS	
		40	1.72	0.00203			PASS	
		5	LCH	VN	-30	4.61	0.00558	PASS
					-20	0.83	0.001	PASS
					-10	1.16	0.0014	PASS
					0	3.63	0.00439	PASS
					10	-3.29	-0.00398	PASS
					20	1.24	0.0015	PASS
					30	-4.29	-0.00519	PASS
					40	-0.92	-0.00111	PASS
					50	-2.8	-0.00339	PASS
					MCH	VN	-30	-1.09
		-20	0.2	0.00024			PASS	
		-10	-1.06	-0.00127			PASS	
		0	-1.04	-0.00124			PASS	
		10	0.1	0.00012			PASS	
		20	-1.39	-0.00166			PASS	
		30	-0.44	-0.00053			PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					40	1.62	0.00194	PASS		
					50	0.63	0.00075	PASS		
			HCH	VN	-30	-0.74	-0.00087	PASS		
					-20	-1.43	-0.00169	PASS		
					-10	-4.43	-0.00523	PASS		
					0	10.3	0.01217	PASS		
					10	-5.01	-0.00592	PASS		
					20	8.4	0.00992	PASS		
					30	-2.69	-0.00318	PASS		
					40	2.56	0.00302	PASS		
		50	1.75	0.00207	PASS					
					LCH	VN	-30	3.19	0.00385	PASS
							-20	-1.5	-0.00181	PASS
							-10	2.15	0.00259	PASS
							0	-1.53	-0.00185	PASS
							10	-4.88	-0.00589	PASS
							20	-3.53	-0.00426	PASS
							30	2.69	0.00324	PASS
							40	0.87	0.00105	PASS
							50	3.98	0.0048	PASS
										MCH
		-20	-3.39	-0.00405	PASS					
		-10	-1.87	-0.00224	PASS					
		0	-0.03	-0.00004	PASS					
		10	-2.96	-0.00354	PASS					
		20	-2.69	-0.00322	PASS					
		30	-1.89	-0.00226	PASS					
		40	-7.44	-0.00889	PASS					
		50	-6.54	-0.00782	PASS					
					HCH	VN				
							-20	-0.83	-0.00098	PASS
							-10	-4.18	-0.00495	PASS
							0	-1.63	-0.00193	PASS
							10	0.51	0.0006	PASS
							20	-4.29	-0.00508	PASS
							30	0.97	0.00115	PASS
							40	-0.89	-0.00105	PASS
		50	-0.07	-0.00008	PASS					
		LTE/TM2	1.4	LCH	VN	-30	-2.69	-0.00326	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		3			-20	0.39	0.00047	PASS
					-10	-1.85	-0.00224	PASS
					0	-39.37	-0.04774	PASS
					10	5.22	0.00633	PASS
					20	-3.48	-0.00422	PASS
					30	1.02	0.00124	PASS
					40	1.26	0.00153	PASS
					50	8.51	0.01032	PASS
			MCH	VN	-30	-9.31	-0.01113	PASS
					-20	-2.02	-0.00241	PASS
					-10	-5.49	-0.00656	PASS
					0	-0.47	-0.00056	PASS
					10	-20.17	-0.02411	PASS
					20	-4.59	-0.00549	PASS
					30	5.04	0.00603	PASS
					40	4.99	0.00597	PASS
			HCH	VN	-30	-6.42	-0.00757	PASS
					-20	0.36	0.00042	PASS
					-10	2.53	0.00298	PASS
					0	0.17	0.0002	PASS
					10	-11.94	-0.01408	PASS
					20	-9.83	-0.01159	PASS
					30	-14.39	-0.01696	PASS
					40	-8.44	-0.00995	PASS
		LCH	VN	-30	-5.31	-0.00643	PASS	
				-20	-5.44	-0.00659	PASS	
				-10	-3.32	-0.00402	PASS	
				0	-1.54	-0.00187	PASS	
				10	-0.2	-0.00024	PASS	
				20	-1.06	-0.00128	PASS	
				30	-7.54	-0.00913	PASS	
				40	-9.2	-0.01114	PASS	
				50	-6.67	-0.00808	PASS	
				MCH	VN	-30	-0.53	-0.00063
		-20	-6.52			-0.00779	PASS	
		-10	-1.02			-0.00122	PASS	
0	-2.16	-0.00258	PASS					

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	1.2	0.00143	PASS
					20	-3.66	-0.00438	PASS
					30	0.63	0.00075	PASS
					40	0.54	0.00065	PASS
					50	-3.45	-0.00412	PASS
			HCH	VN	-30	-2.35	-0.00277	PASS
					-20	-4.95	-0.00584	PASS
					-10	-2.42	-0.00286	PASS
					0	0.03	0.00004	PASS
					10	2.19	0.00258	PASS
					20	2.33	0.00275	PASS
					30	-1.93	-0.00228	PASS
					40	-0.24	-0.00028	PASS
					50	0.57	0.00067	PASS
					LCH	VN	-30	-4.19
			-20	-1.26			-0.00152	PASS
			-10	-3.63			-0.00439	PASS
			0	1.23			0.00149	PASS
			10	-2.73			-0.0033	PASS
			20	-1.86			-0.00225	PASS
		30	6.32	0.00765			PASS	
		40	0.54	0.00065			PASS	
		MCH	VN	50	-7.1	-0.00859	PASS	
				-30	-0.34	-0.00041	PASS	
				-20	-1.57	-0.00188	PASS	
				-10	-2.17	-0.00259	PASS	
				0	-0.5	-0.0006	PASS	
				10	-2.07	-0.00247	PASS	
				20	-0.92	-0.0011	PASS	
				30	-0.3	-0.00036	PASS	
				40	-0.14	-0.00017	PASS	
		50	-1.13	-0.00135	PASS			
		HCH	VN	-30	-1.65	-0.00195	PASS	
				-20	4.33	0.00512	PASS	
				-10	-1.77	-0.00209	PASS	
				0	-1.32	-0.00156	PASS	
				10	-2.69	-0.00318	PASS	
				20	1.39	0.00164	PASS	
				30	-8.35	-0.00986	PASS	
		5						

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-2.02	-0.00239	PASS
					50	-0.49	-0.00058	PASS
		10	LCH	VN	-30	2.99	0.00361	PASS
					-20	-1.36	-0.00164	PASS
					-10	-0.69	-0.00083	PASS
					0	-3.63	-0.00438	PASS
					10	0.72	0.00087	PASS
					20	-14.46	-0.01744	PASS
					30	-13	-0.01568	PASS
					40	-6.35	-0.00766	PASS
					50	-4.59	-0.00554	PASS
					MCH	VN	-30	-1.23
		-20	4.29	0.00513			PASS	
		-10	3.39	0.00405			PASS	
		0	0.79	0.00094			PASS	
		10	2.95	0.00353			PASS	
		20	5.01	0.00599			PASS	
		30	2.53	0.00302			PASS	
		40	-0.59	-0.00071			PASS	
		HCH	VN	-30	-1.99	-0.00236	PASS	
				-20	2.4	0.00284	PASS	
				-10	0.24	0.00028	PASS	
				0	0.66	0.00078	PASS	
				10	-1.82	-0.00216	PASS	
				20	-3.12	-0.0037	PASS	
				30	-0.19	-0.00023	PASS	
				40	-0.19	-0.00023	PASS	
		50	-1.29	-0.00153	PASS			

END