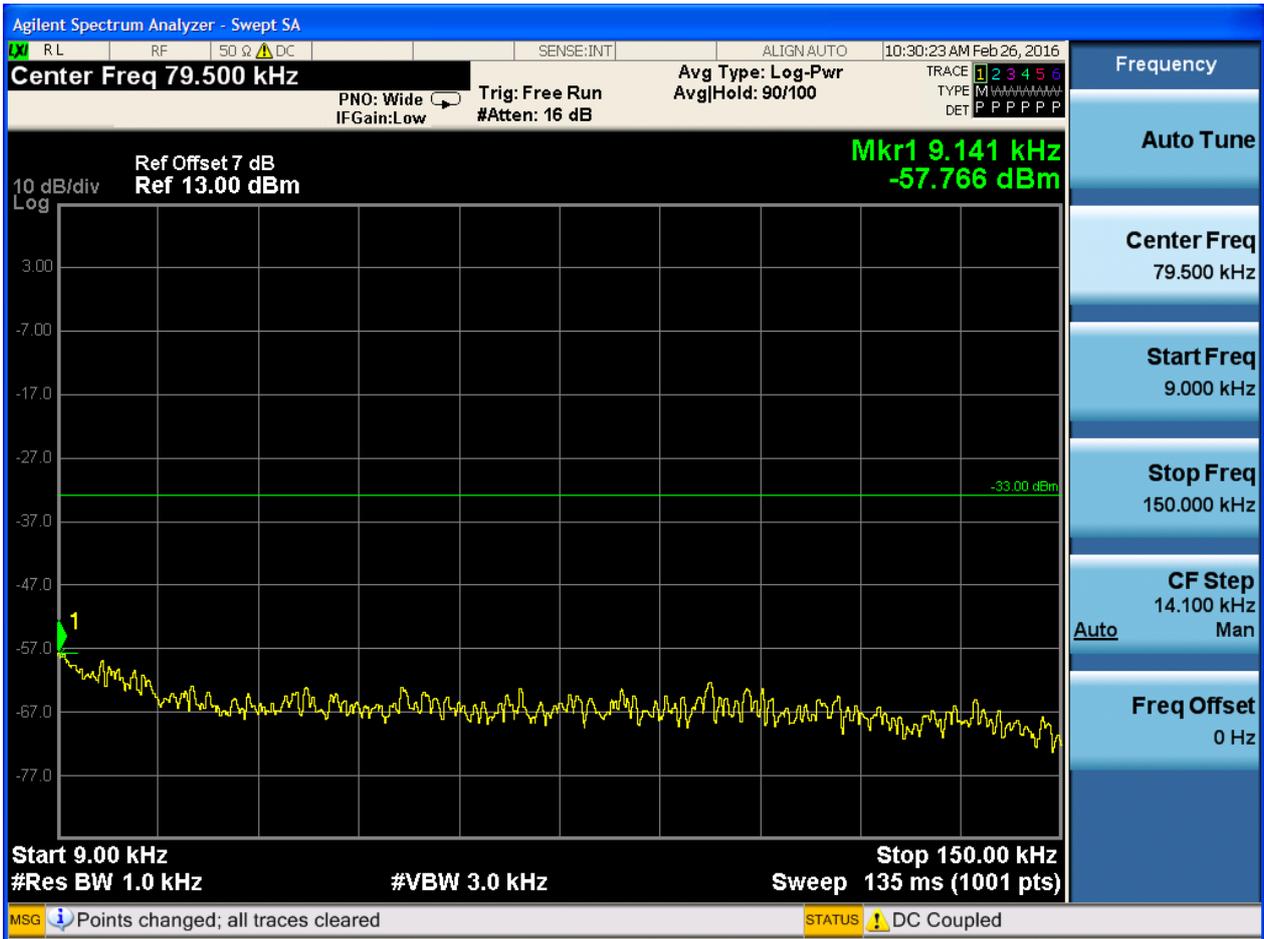


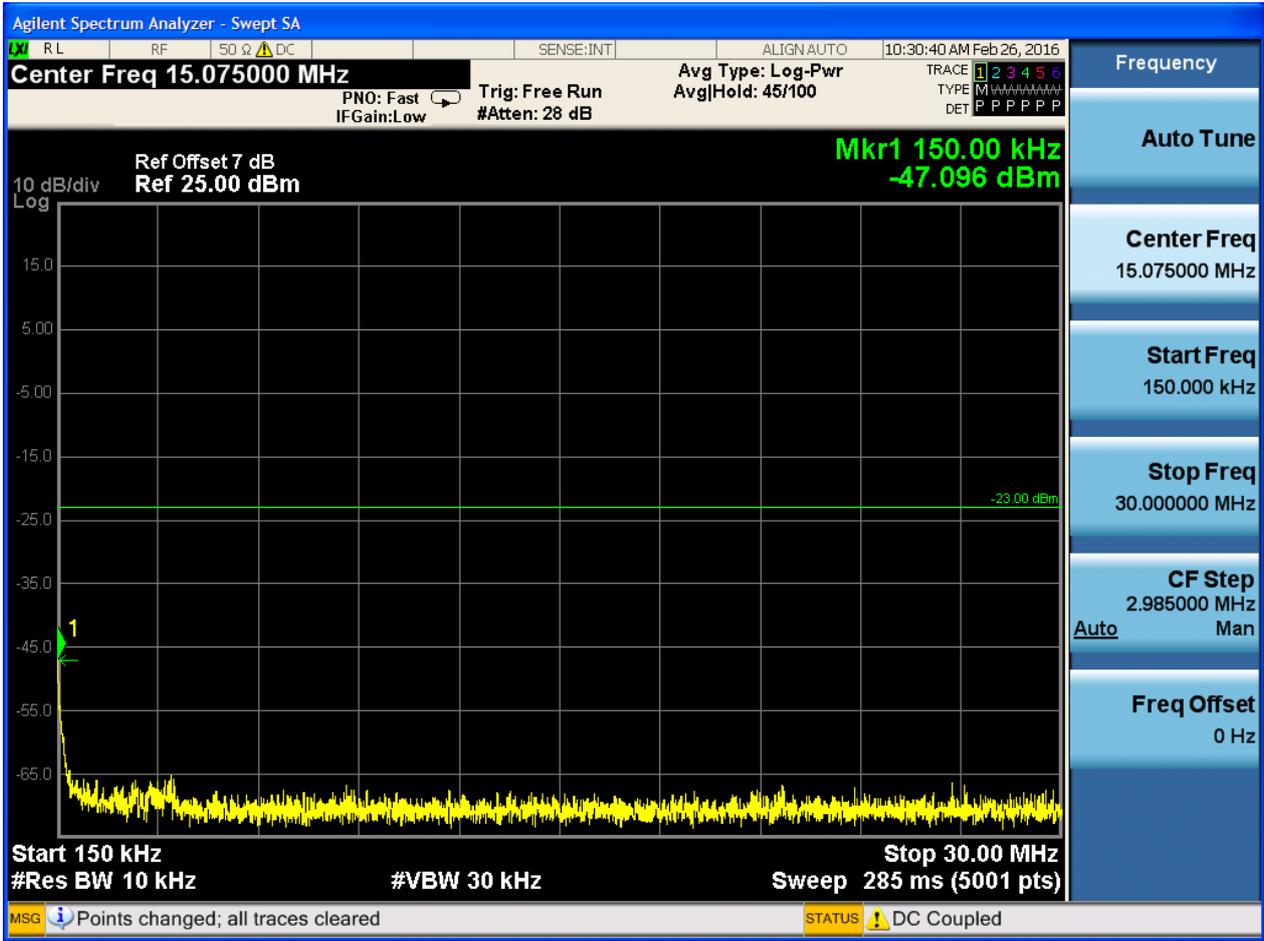


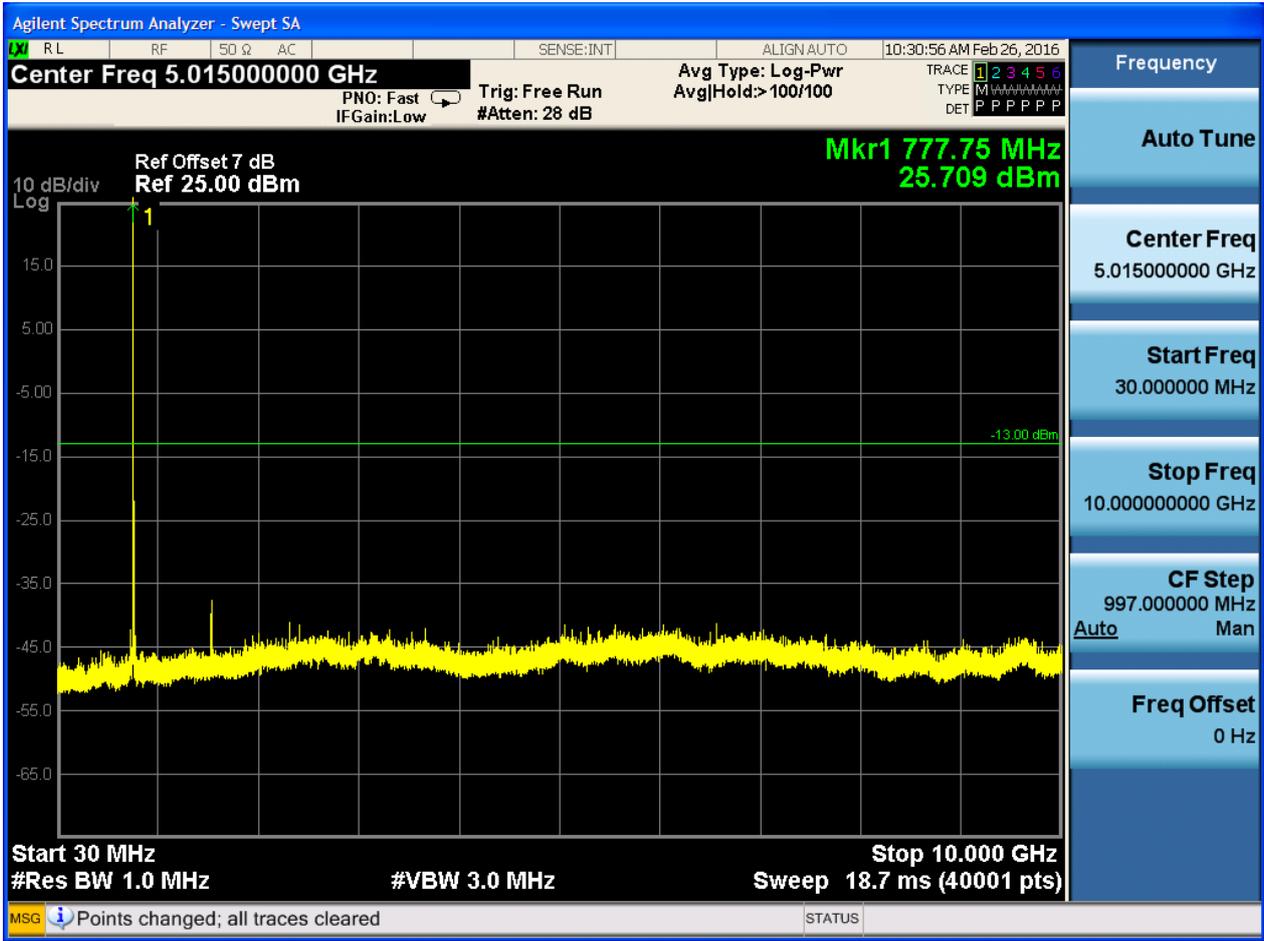
6.1.1.1.2 Test Bandwidth = 10

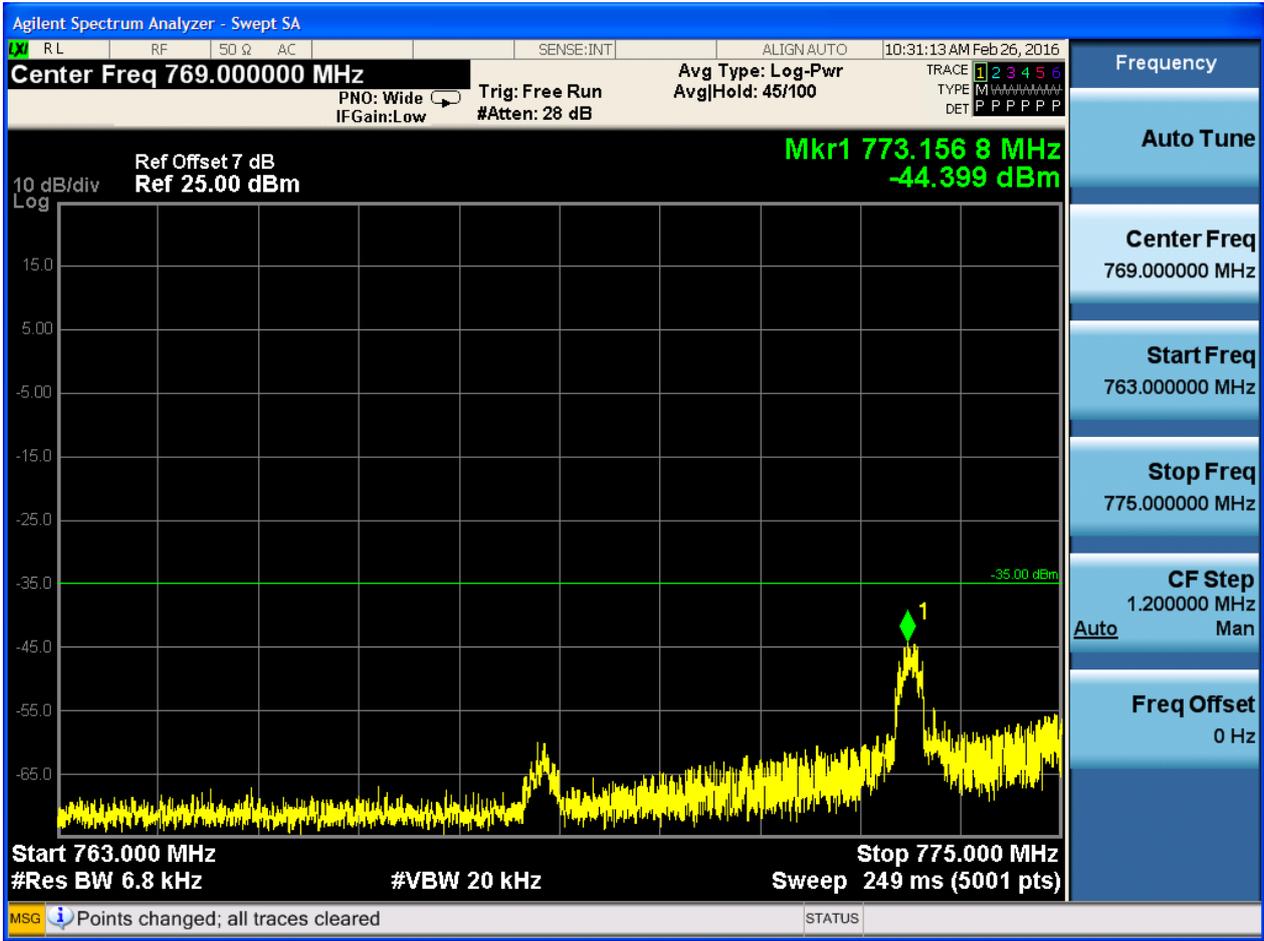
6.1.1.1.2.1 Test Channel = LCH

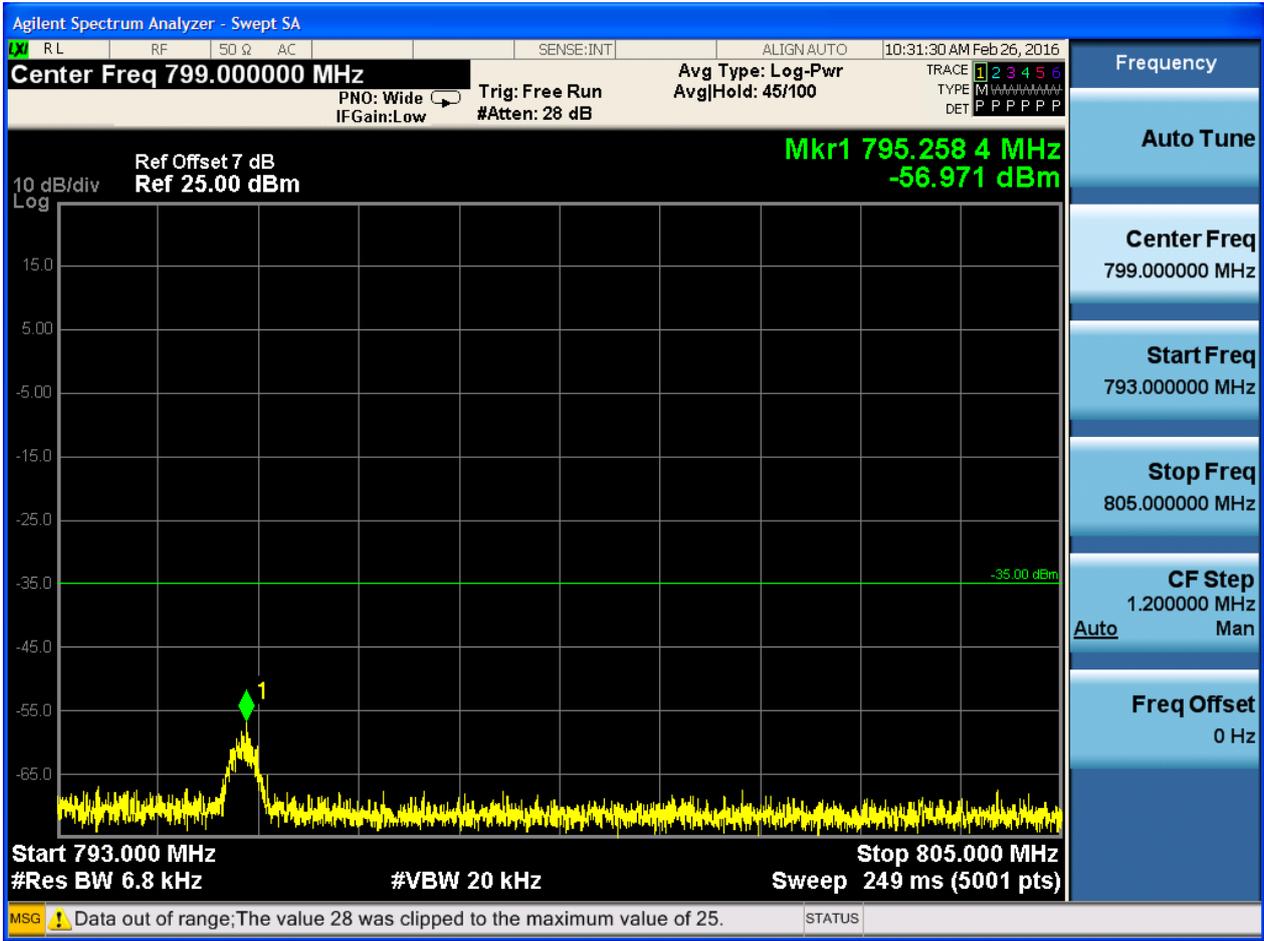
6.1.1.1.2.1.1 Test RB = RB1#0







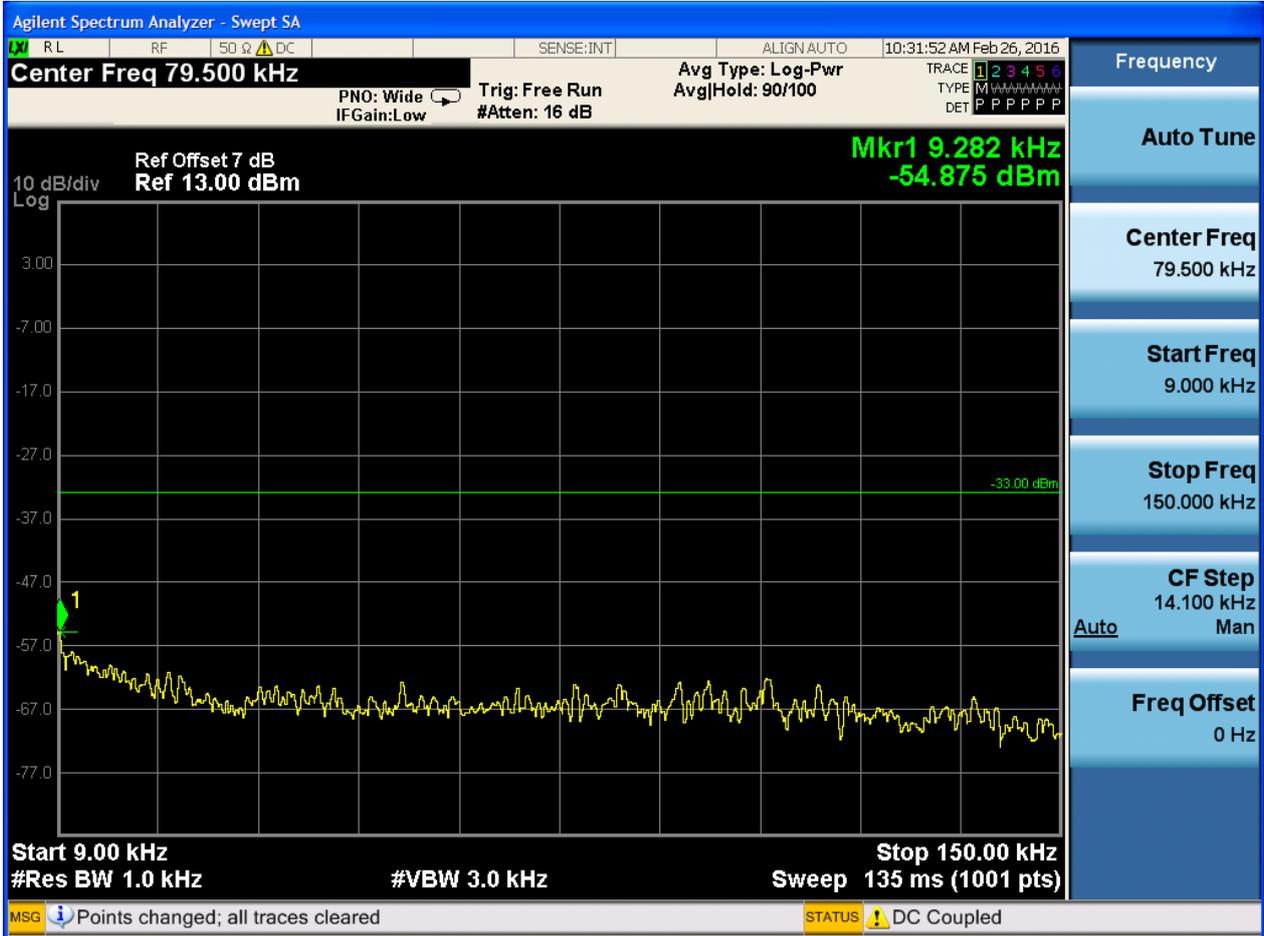




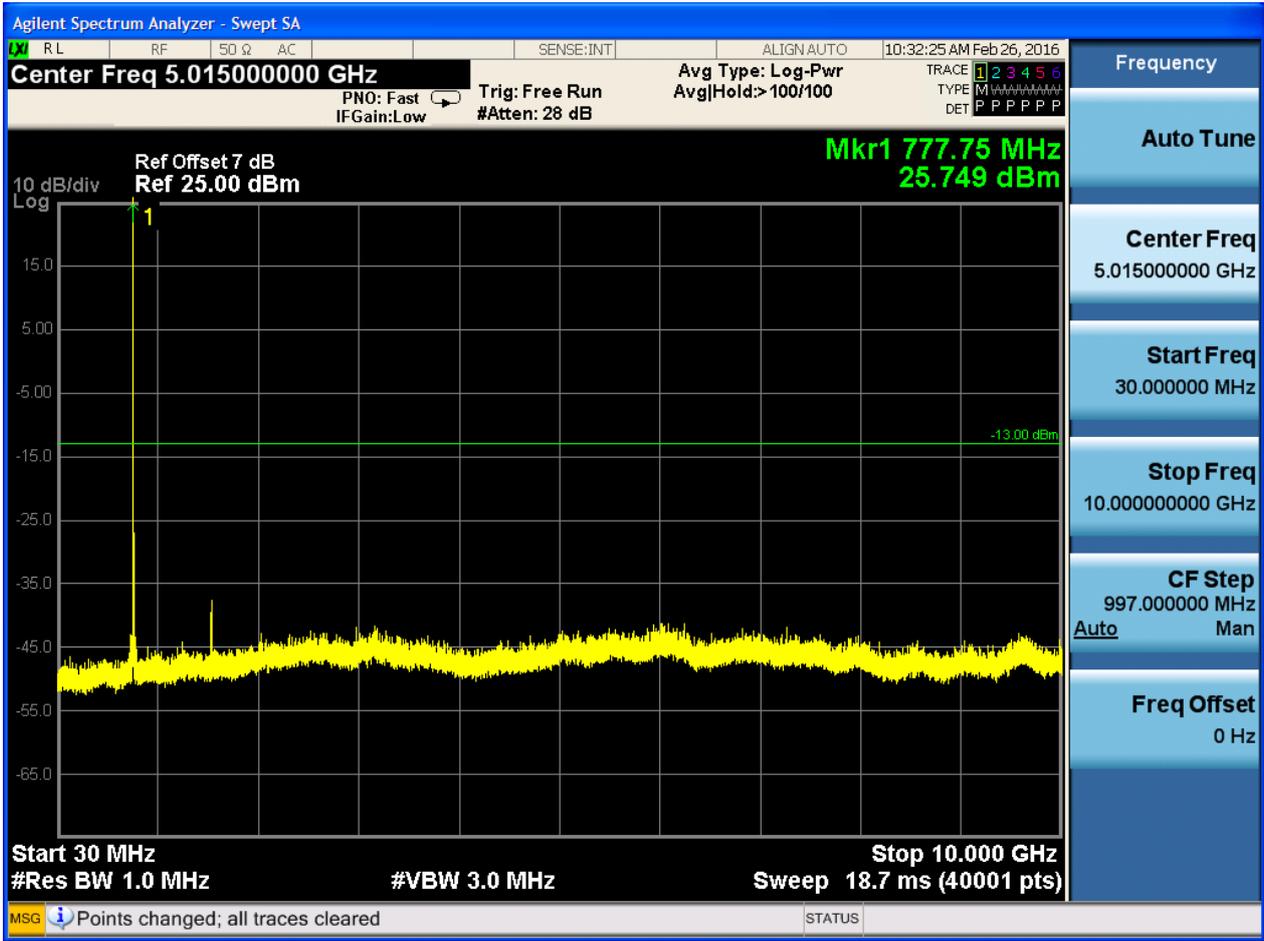


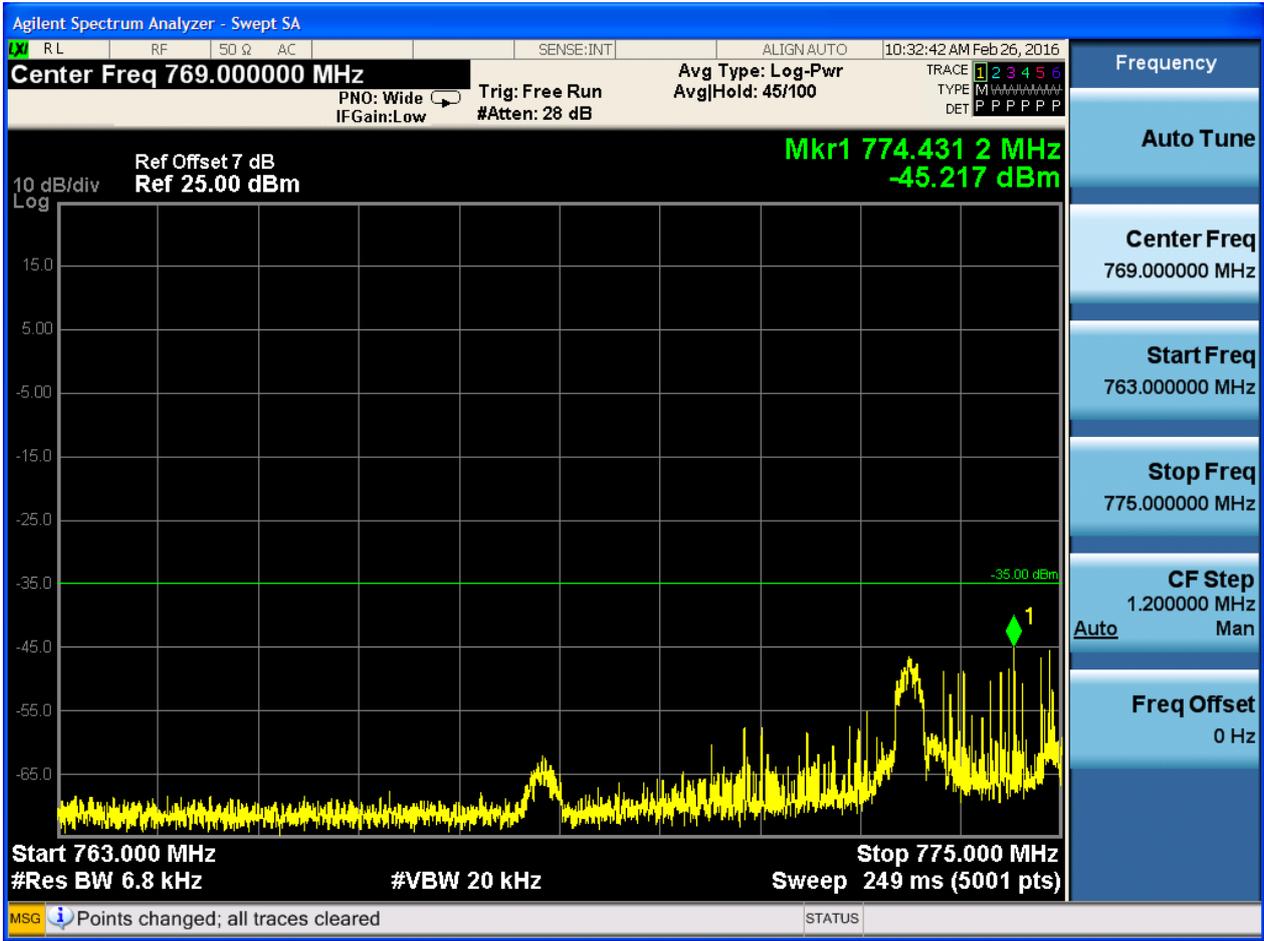
6.1.1.1.2.2 Test Channel = MCH

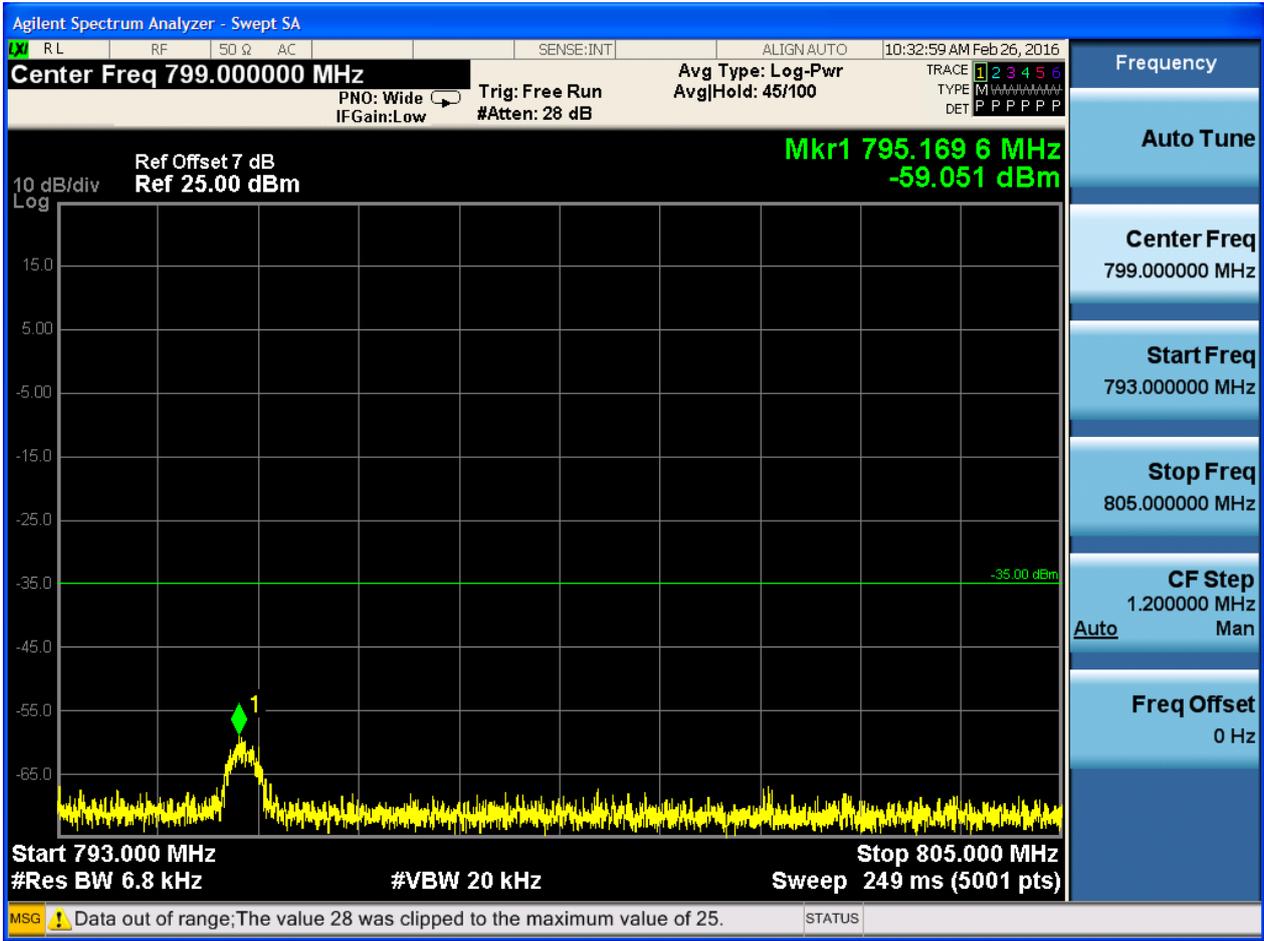
6.1.1.1.2.2.1 Test RB = RB1#0







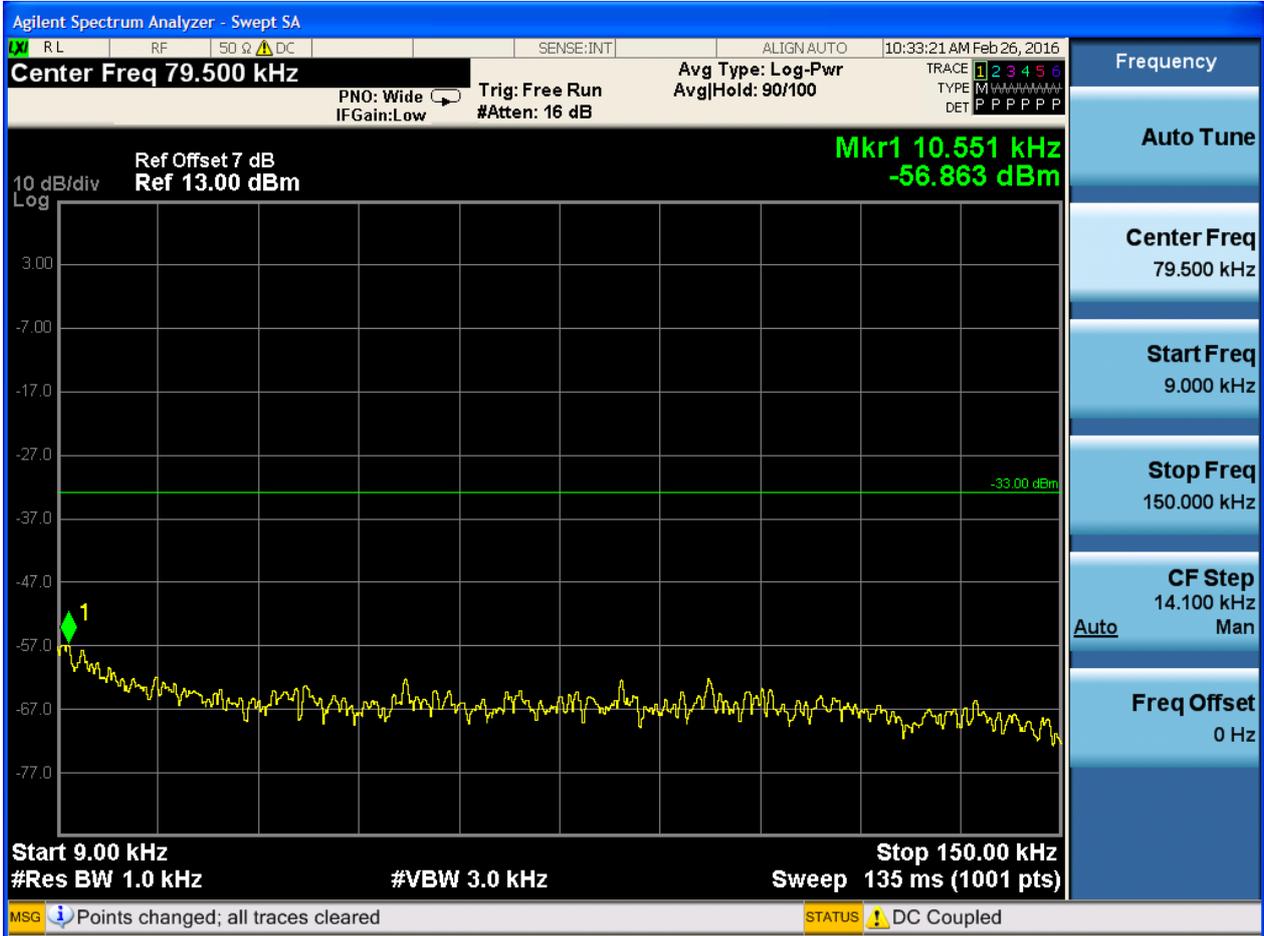




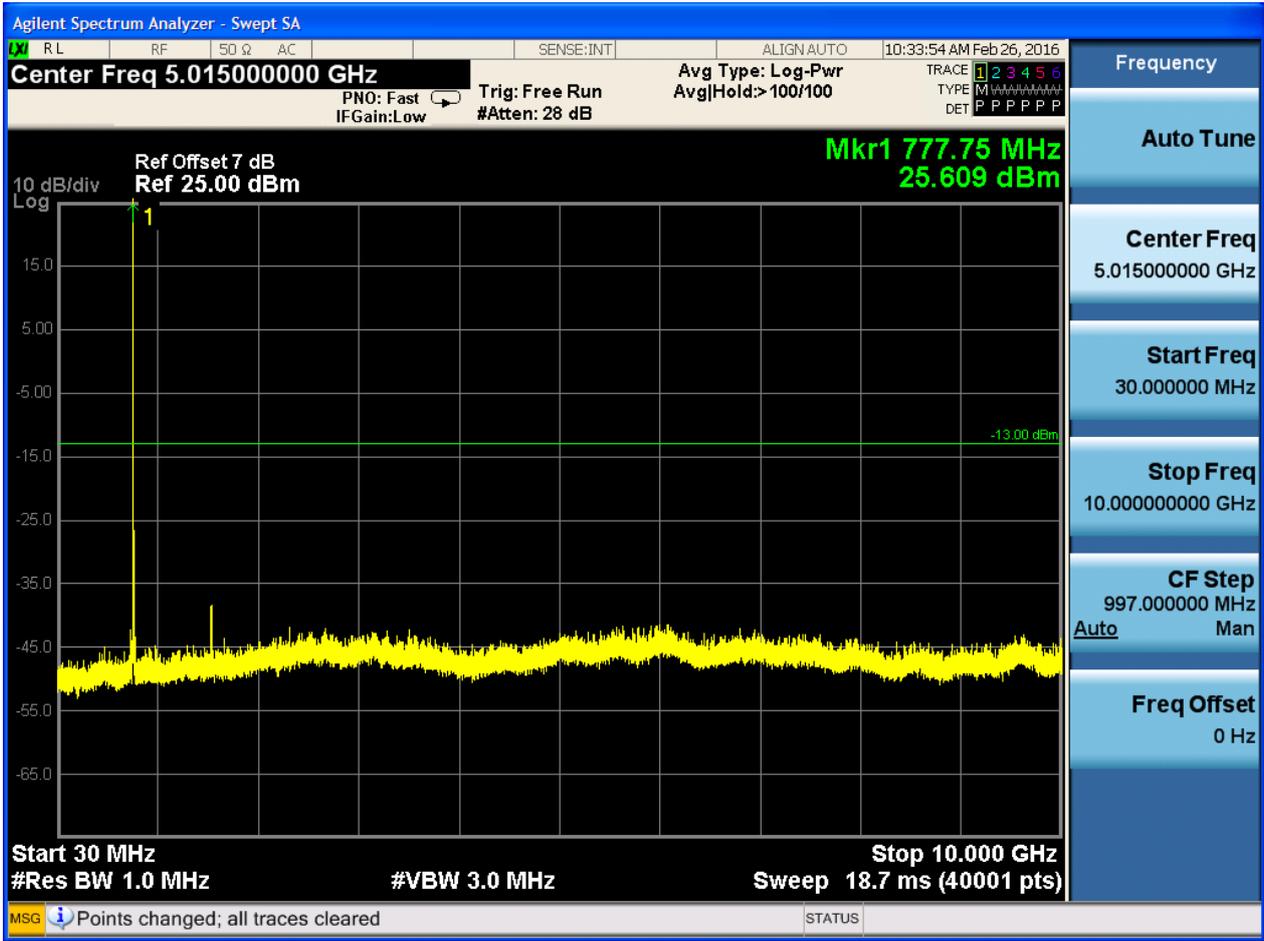


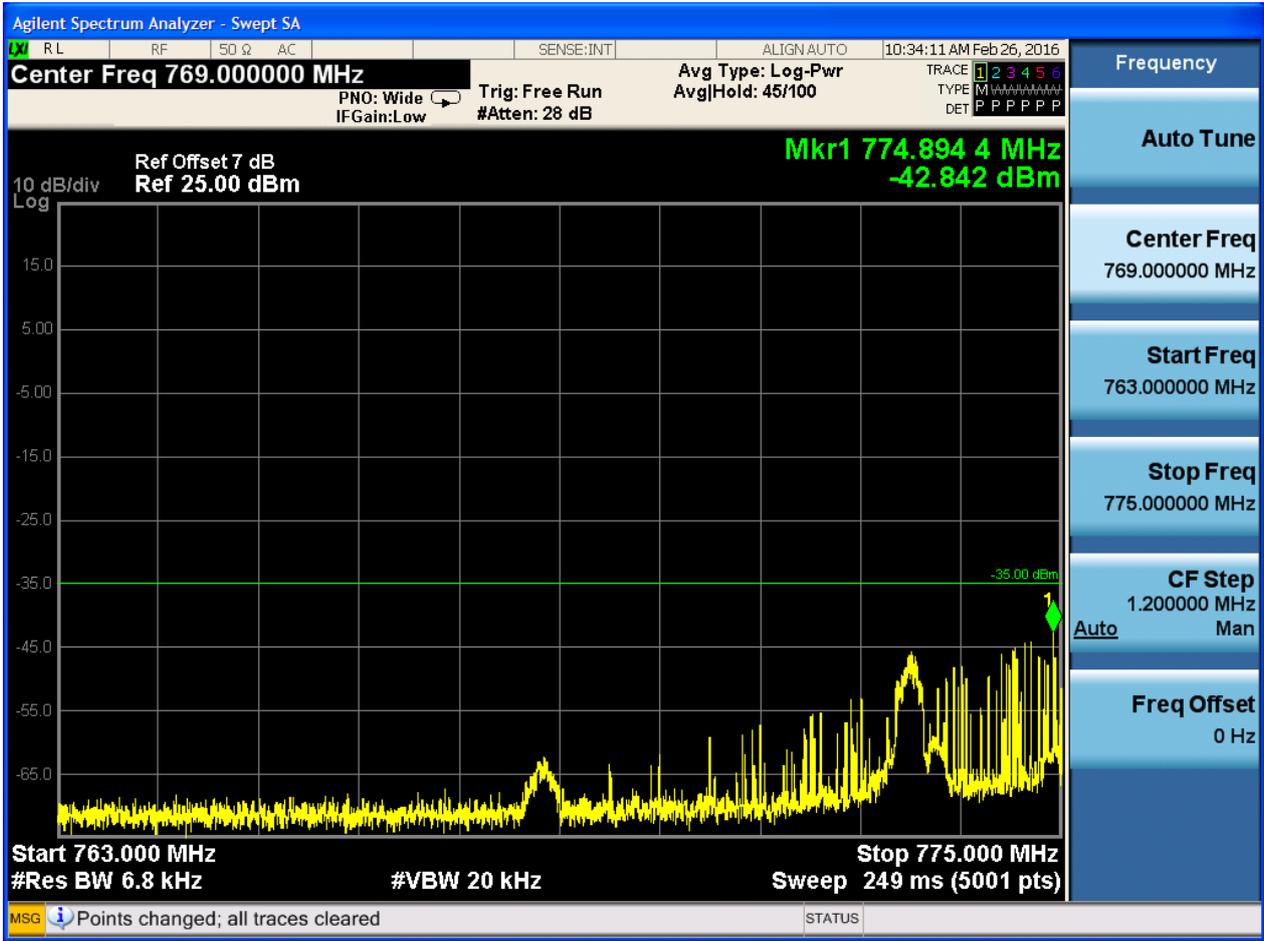
6.1.1.1.2.3 Test Channel = HCH

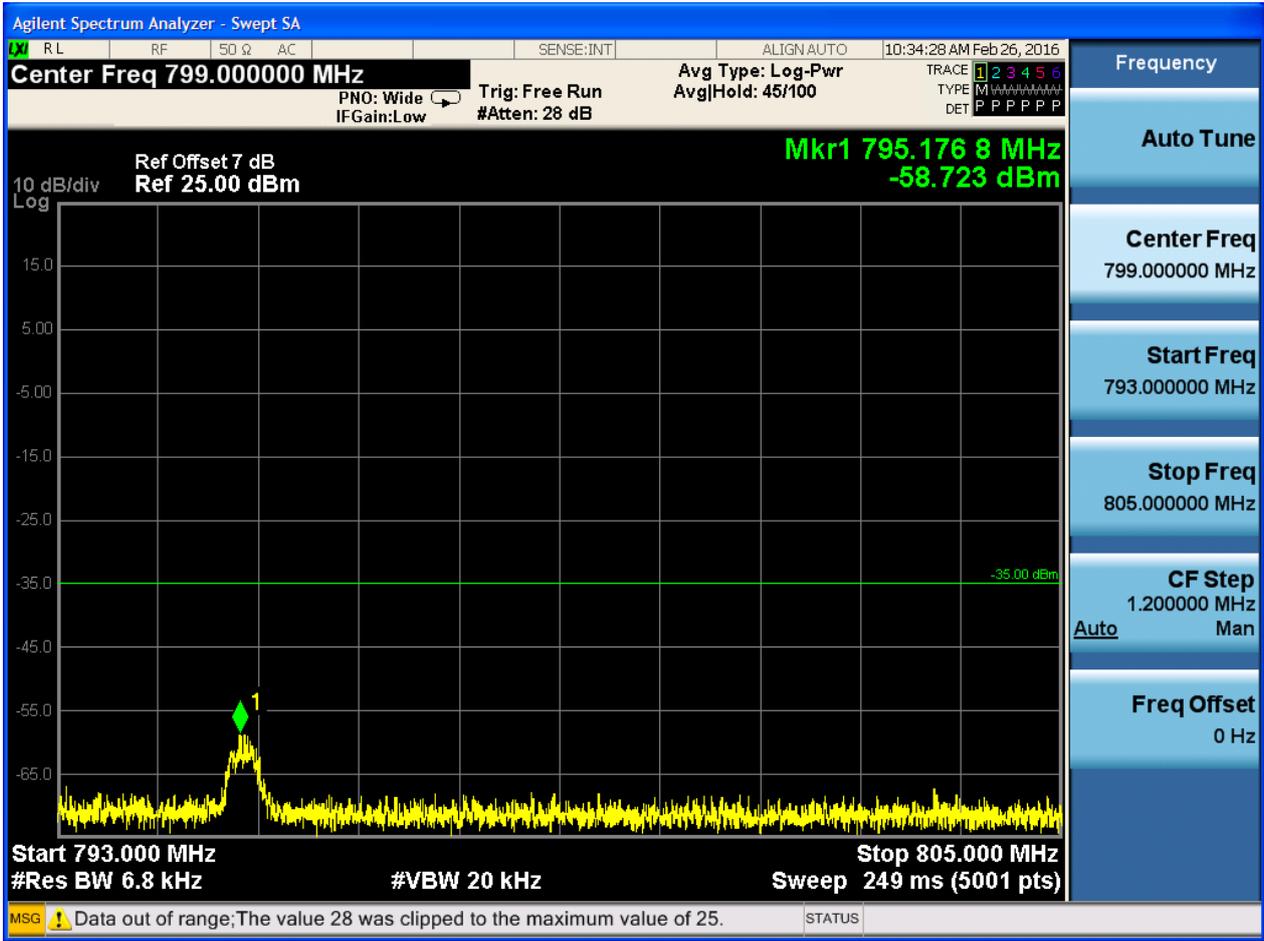
6.1.1.1.2.3.1 Test RB = RB1#0











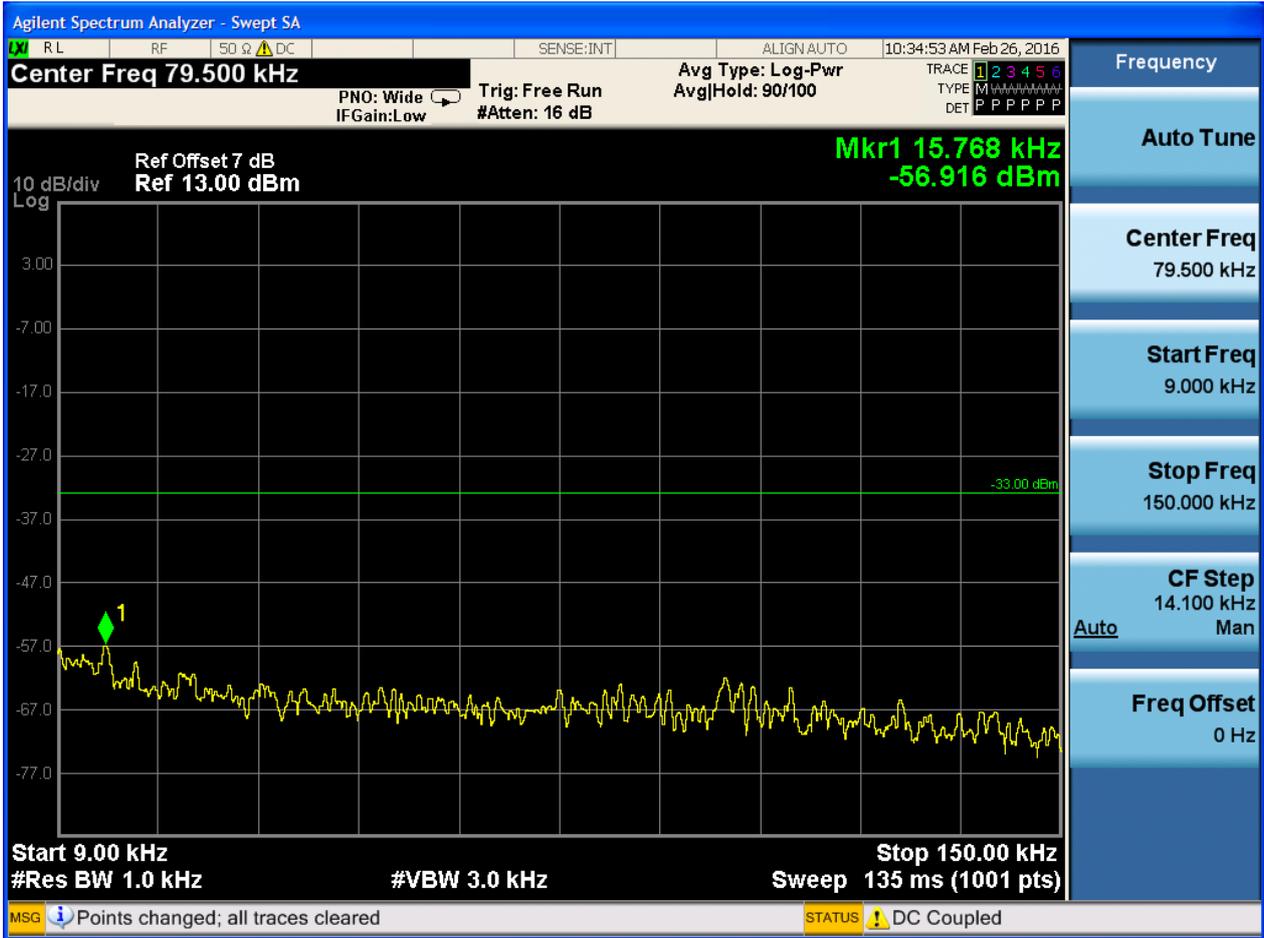


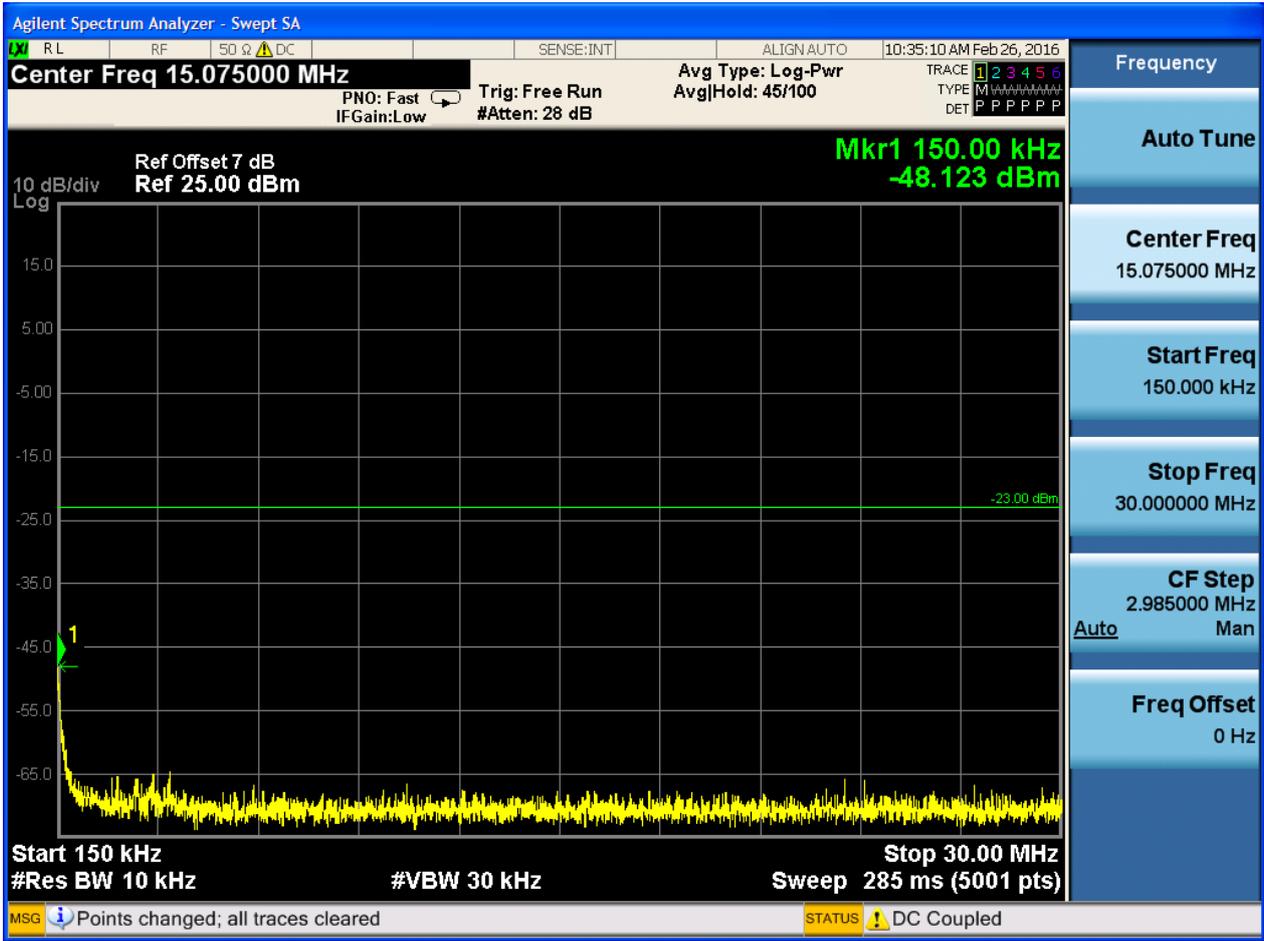
6.1.1.2 Test Mode = LTE/TM2

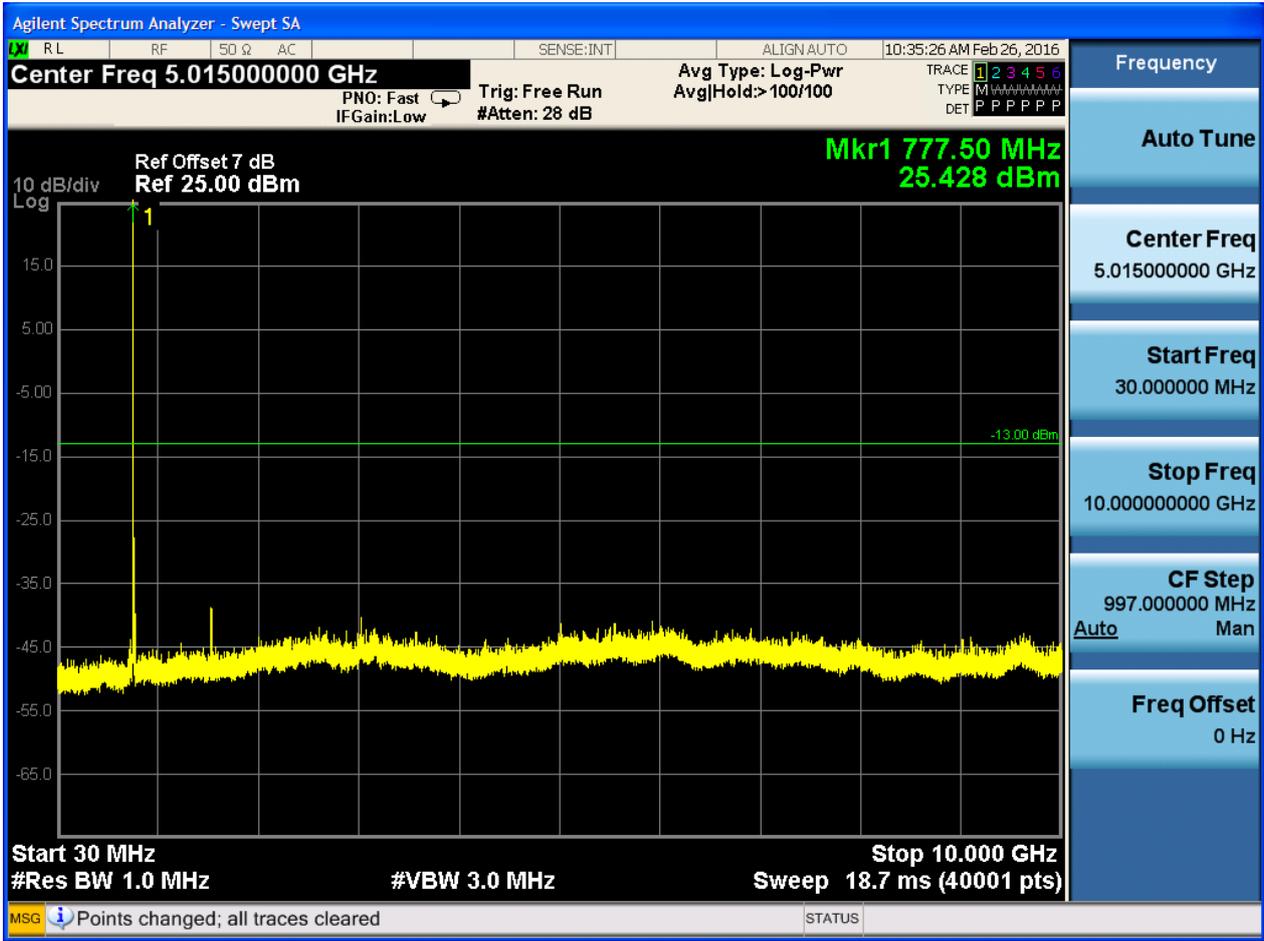
6.1.1.2.1 Test Bandwidth = 5

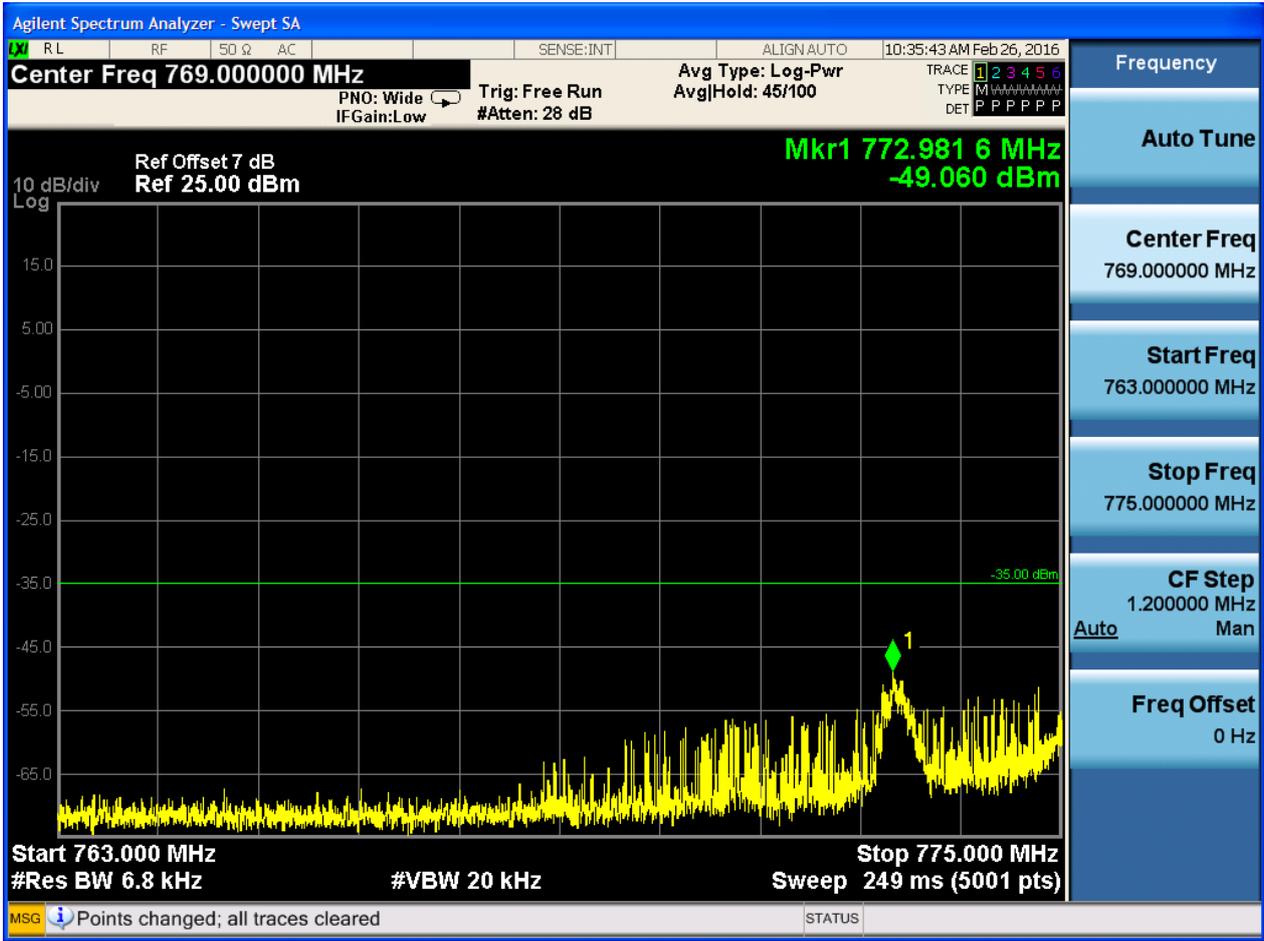
6.1.1.2.1.1 Test Channel = LCH

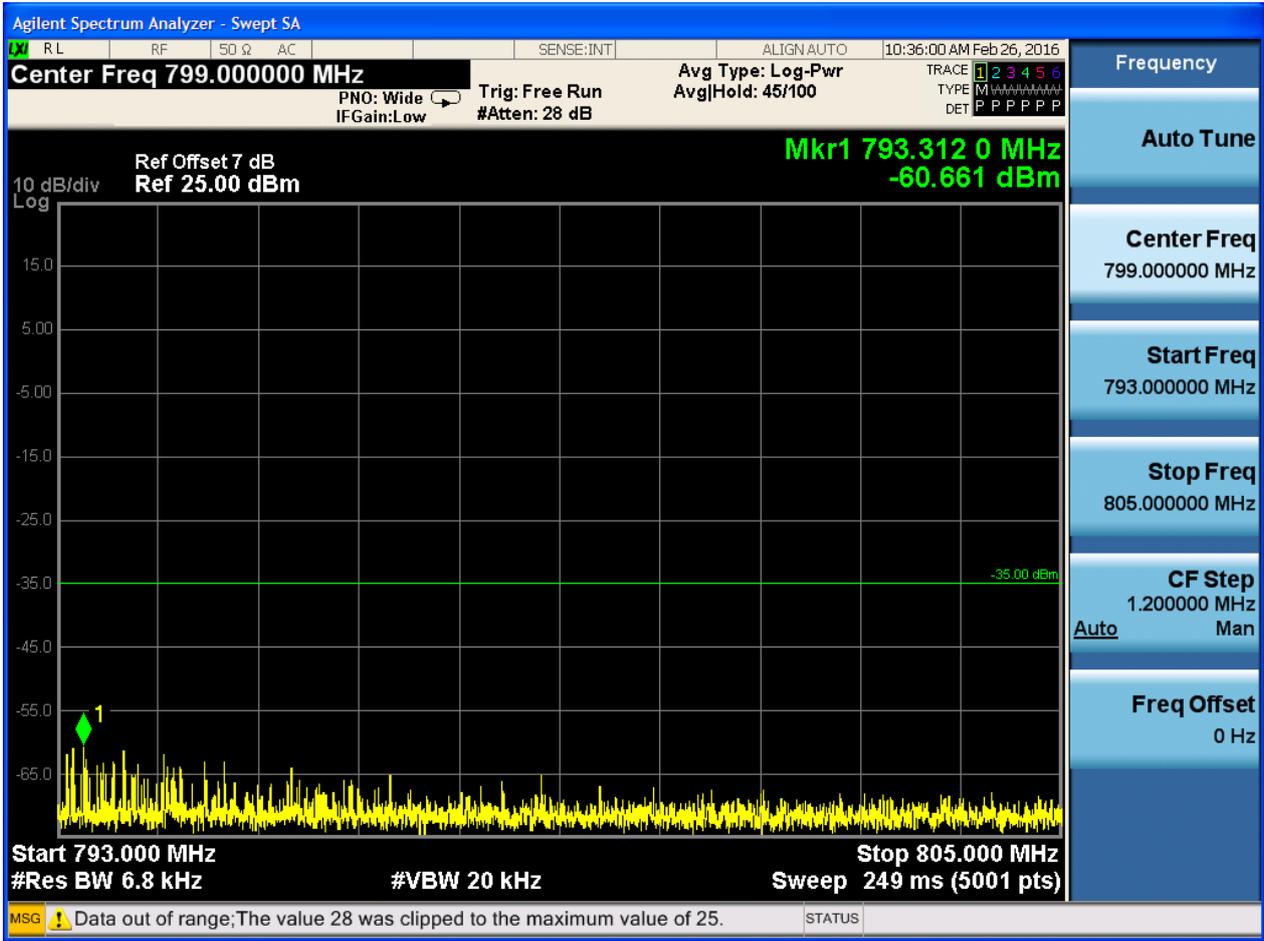
6.1.1.2.1.1.1 Test RB = RB1#0







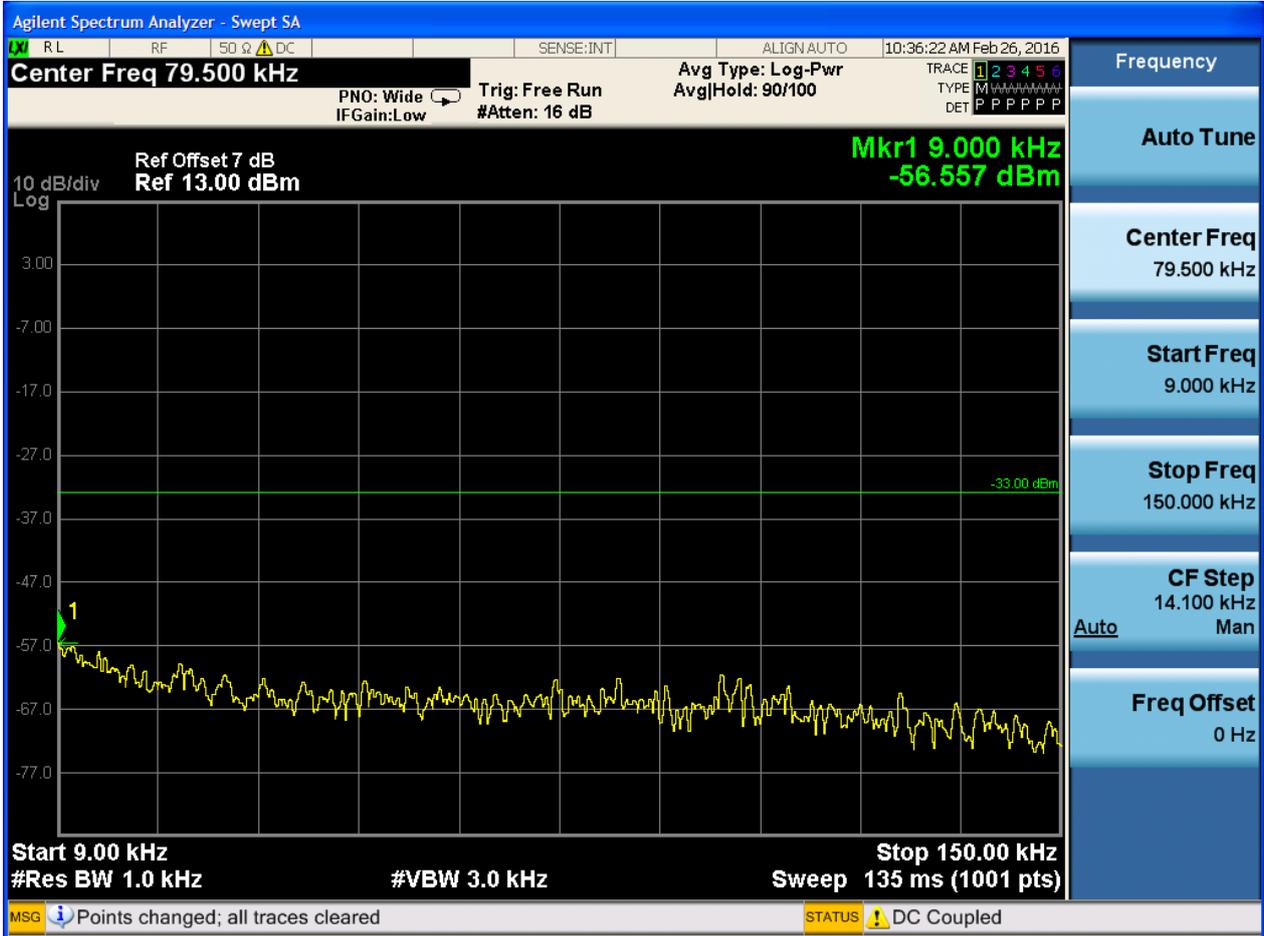


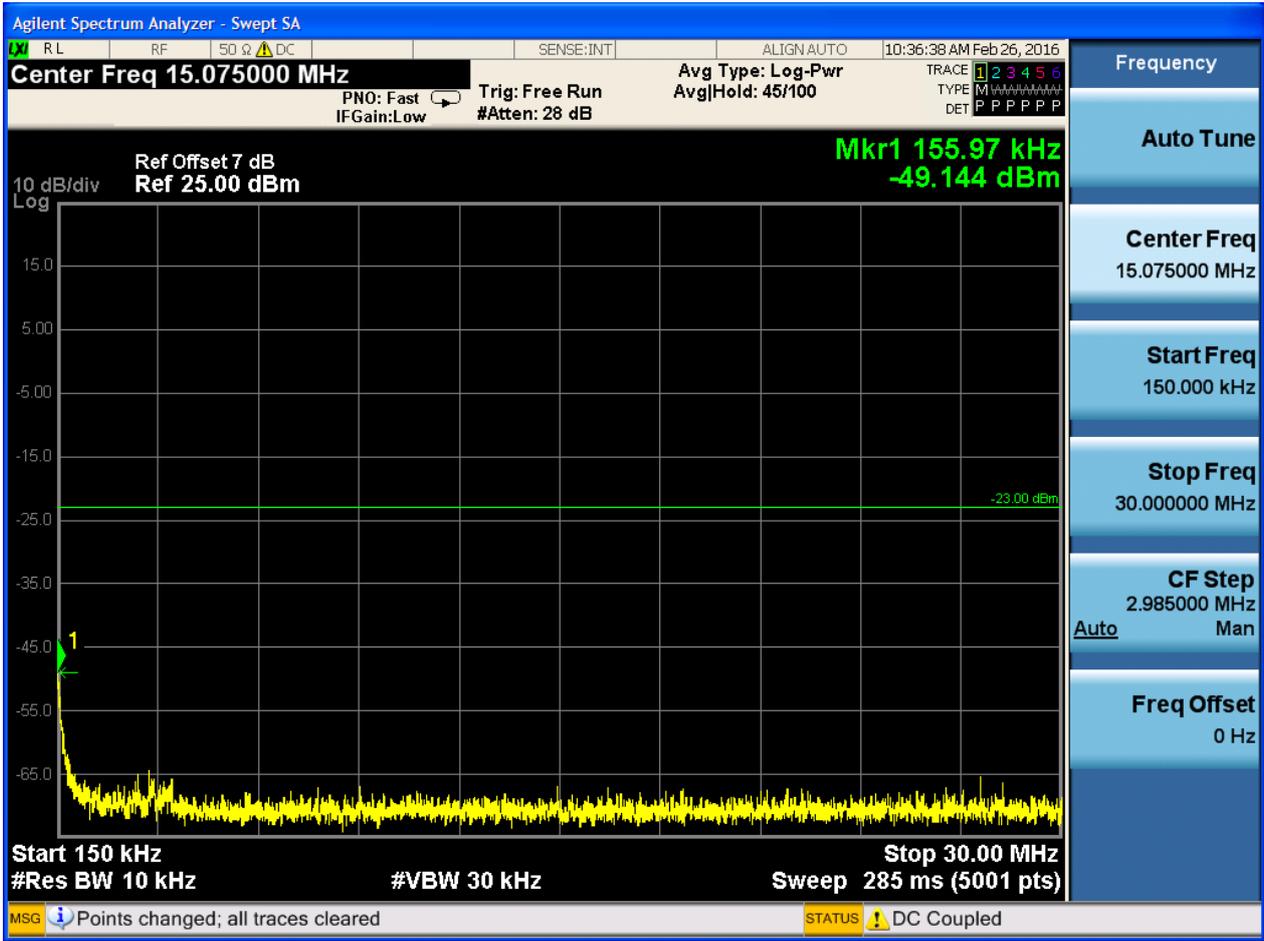


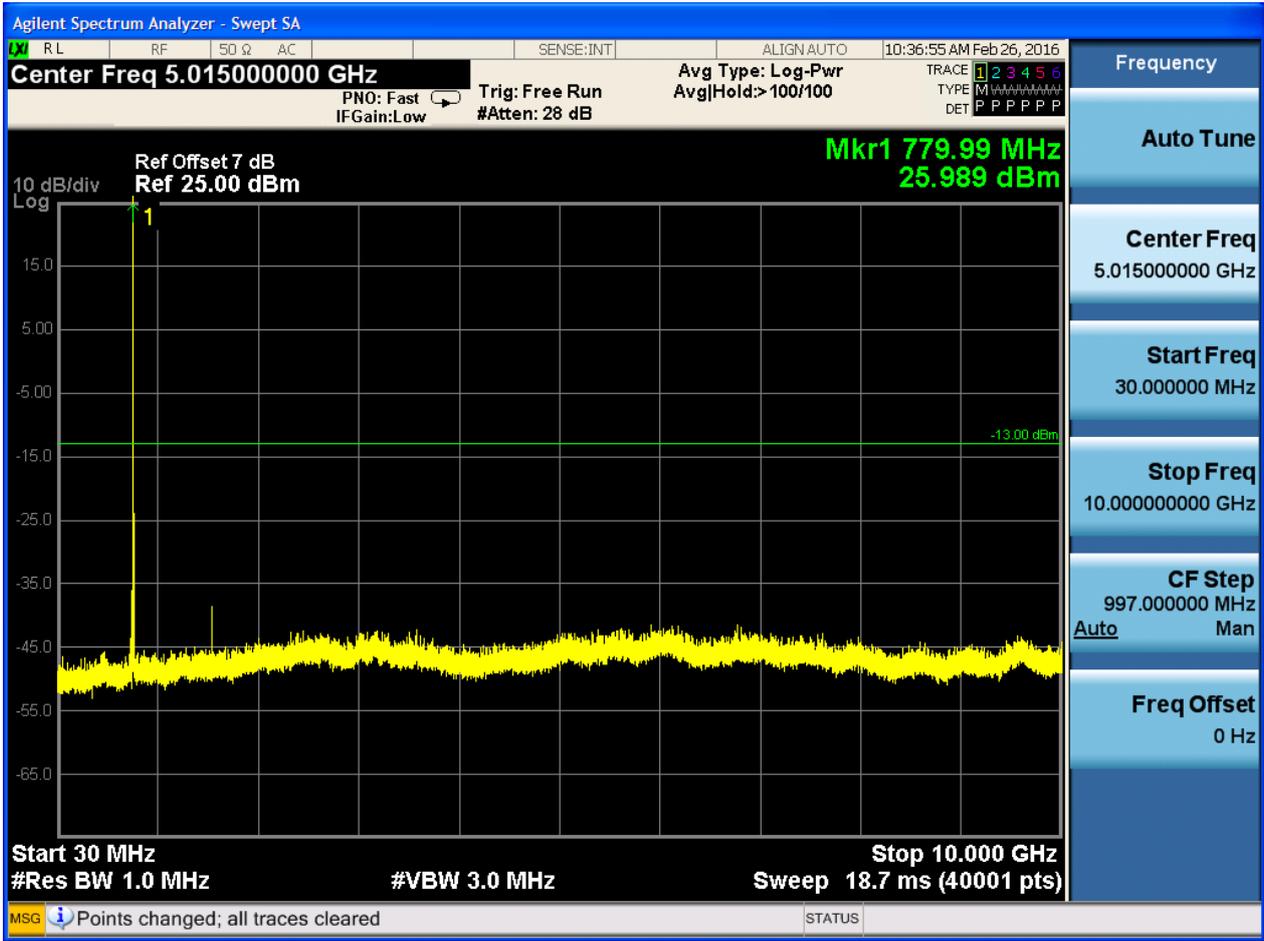


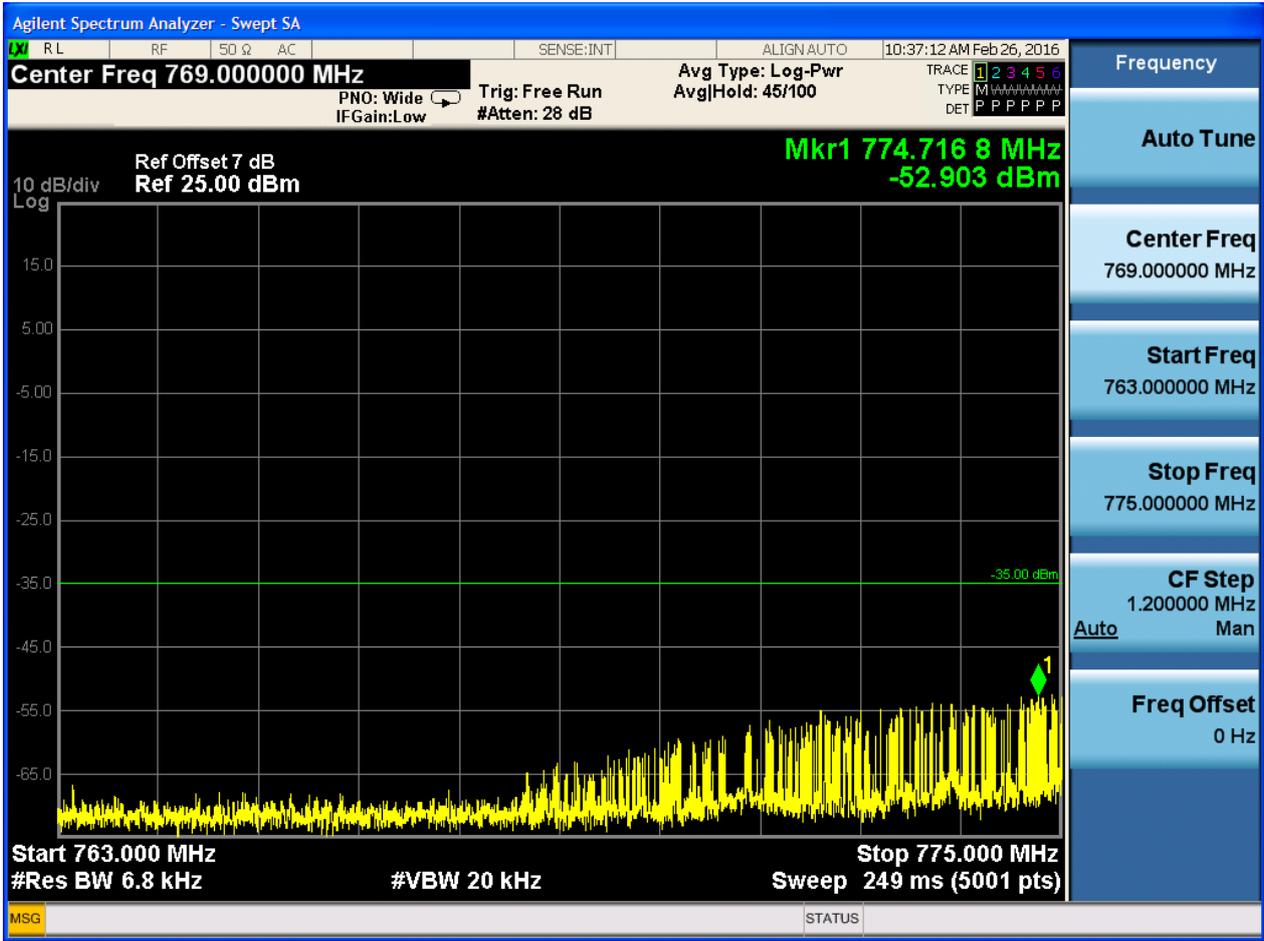
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0







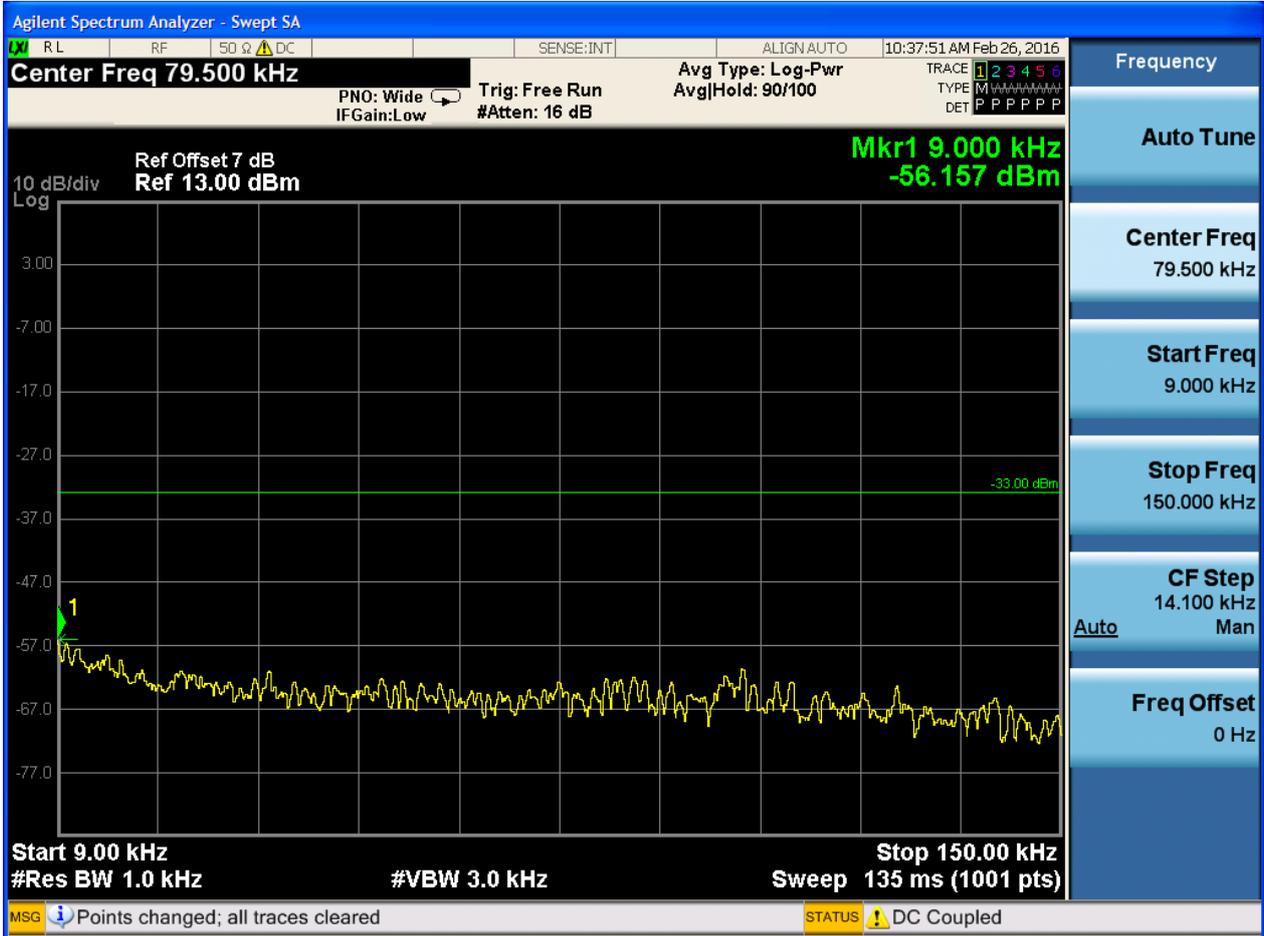


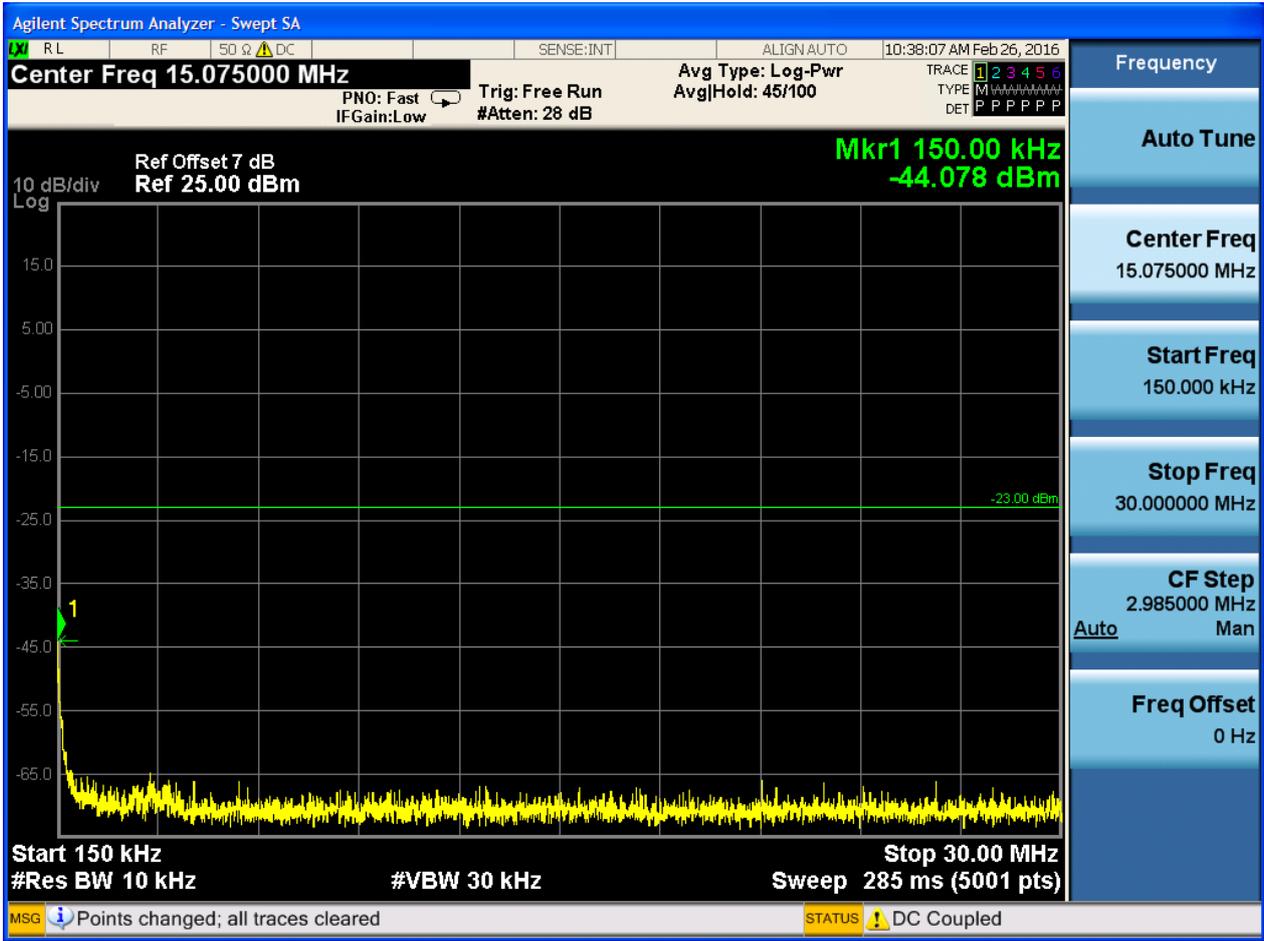


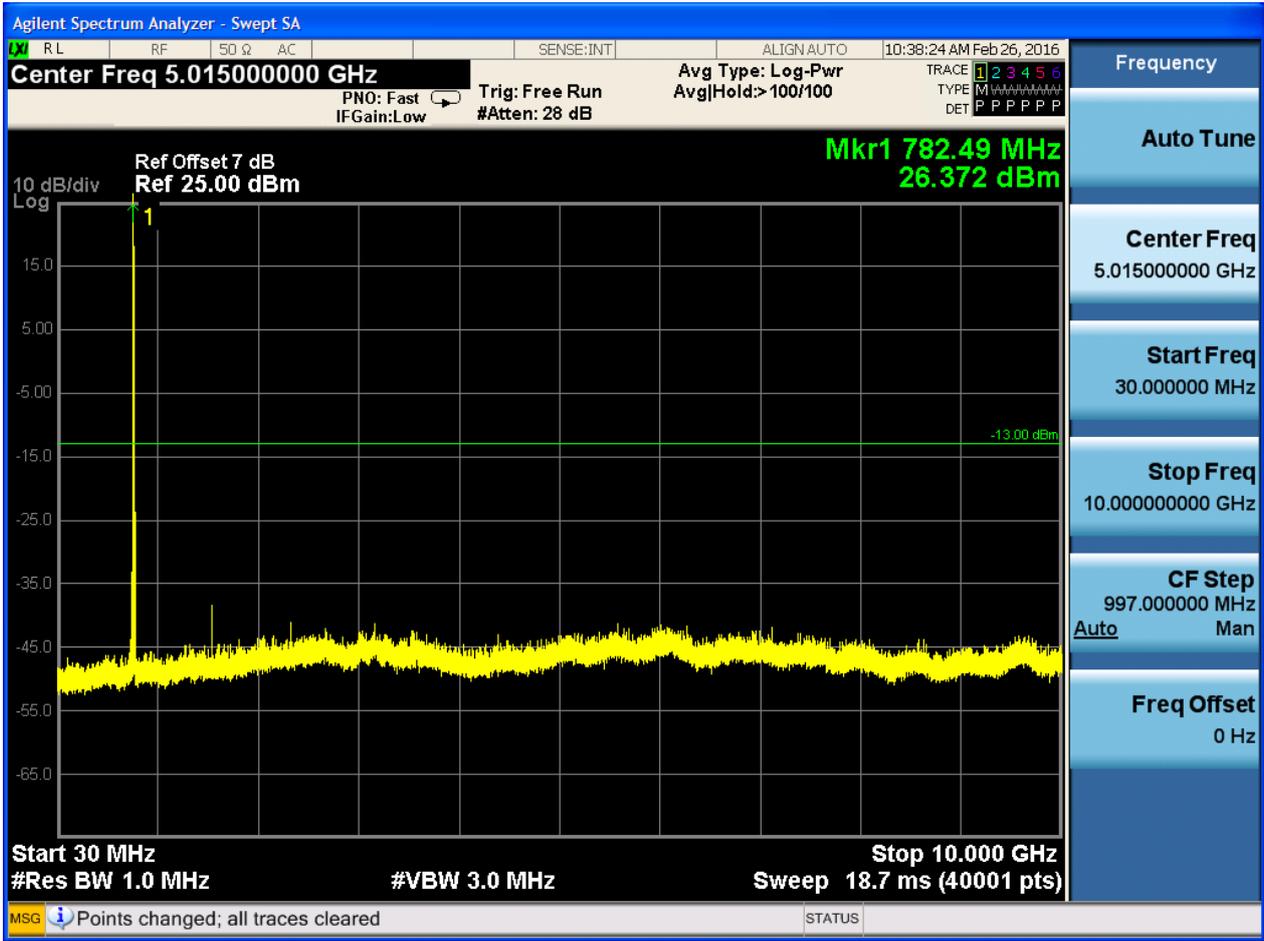


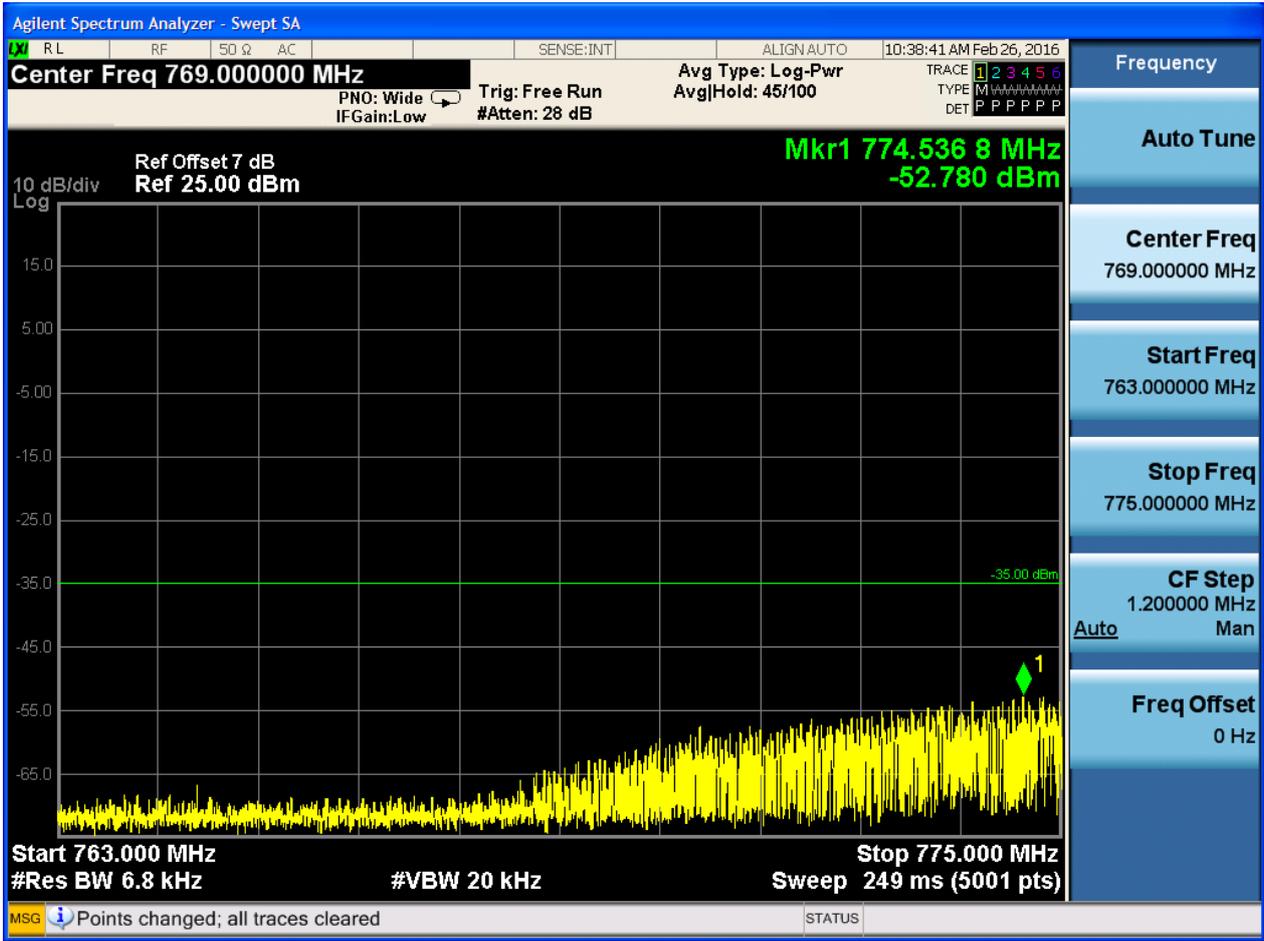
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0









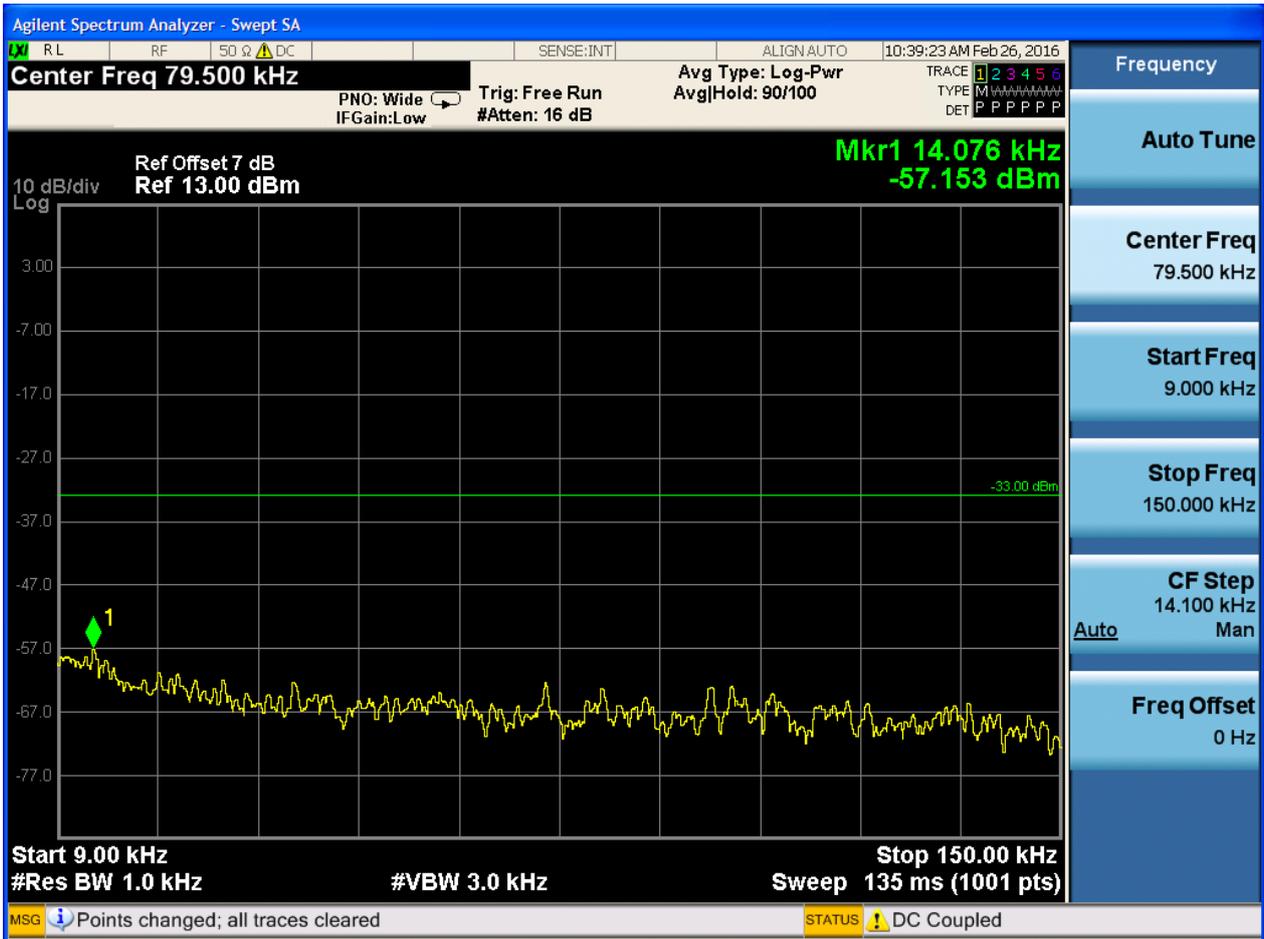


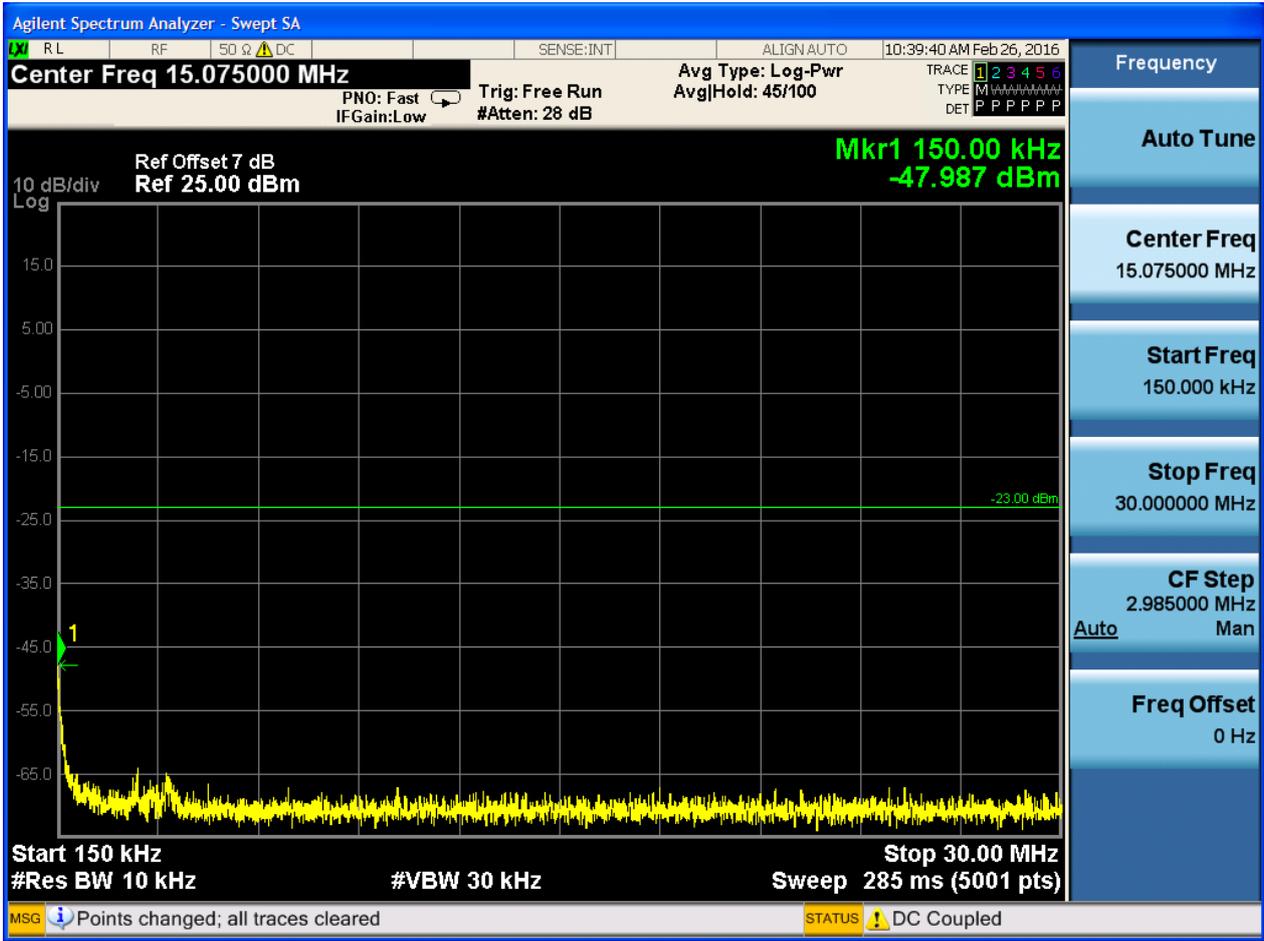


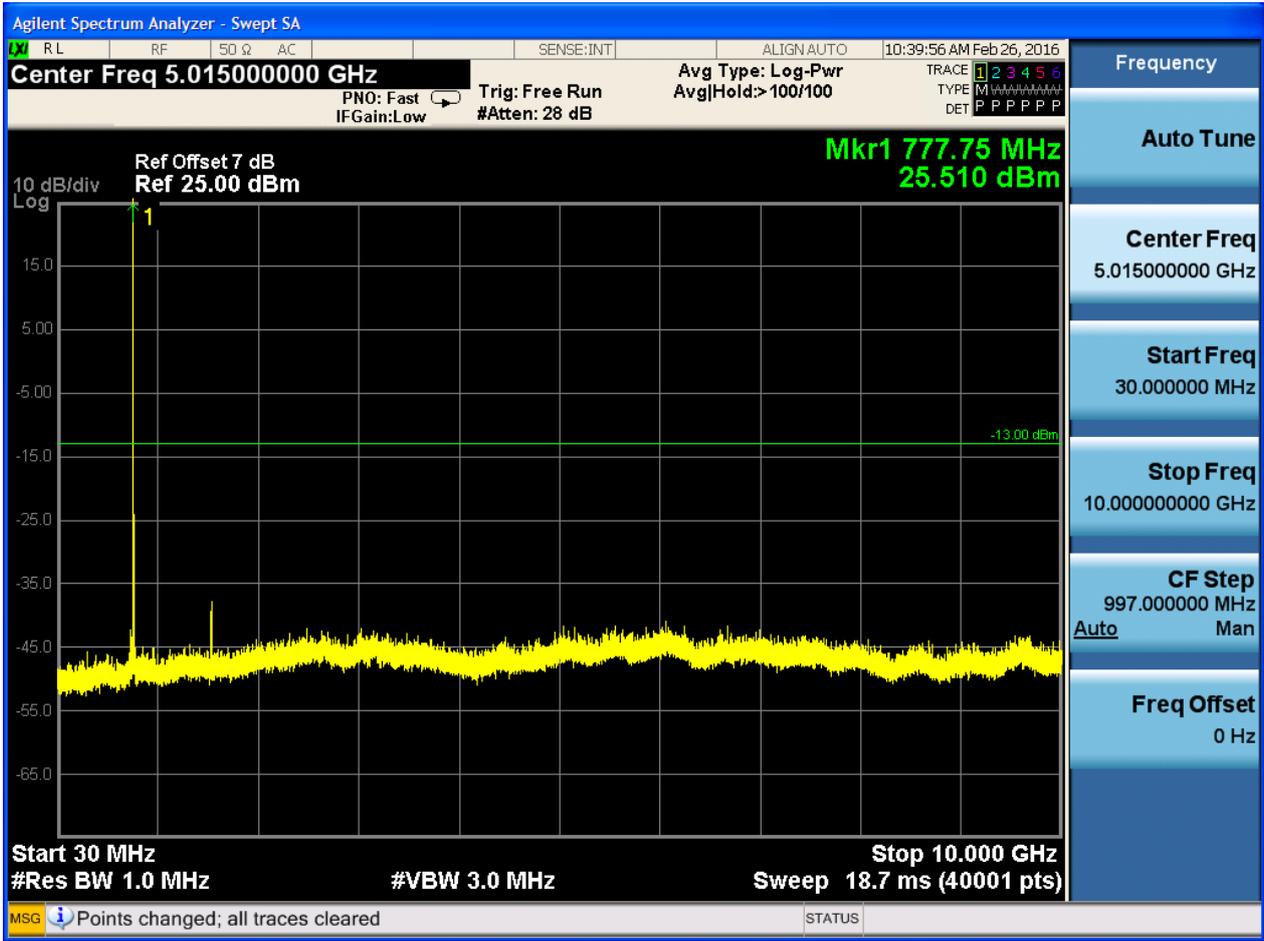
6.1.1.2.2 Test Bandwidth = 10

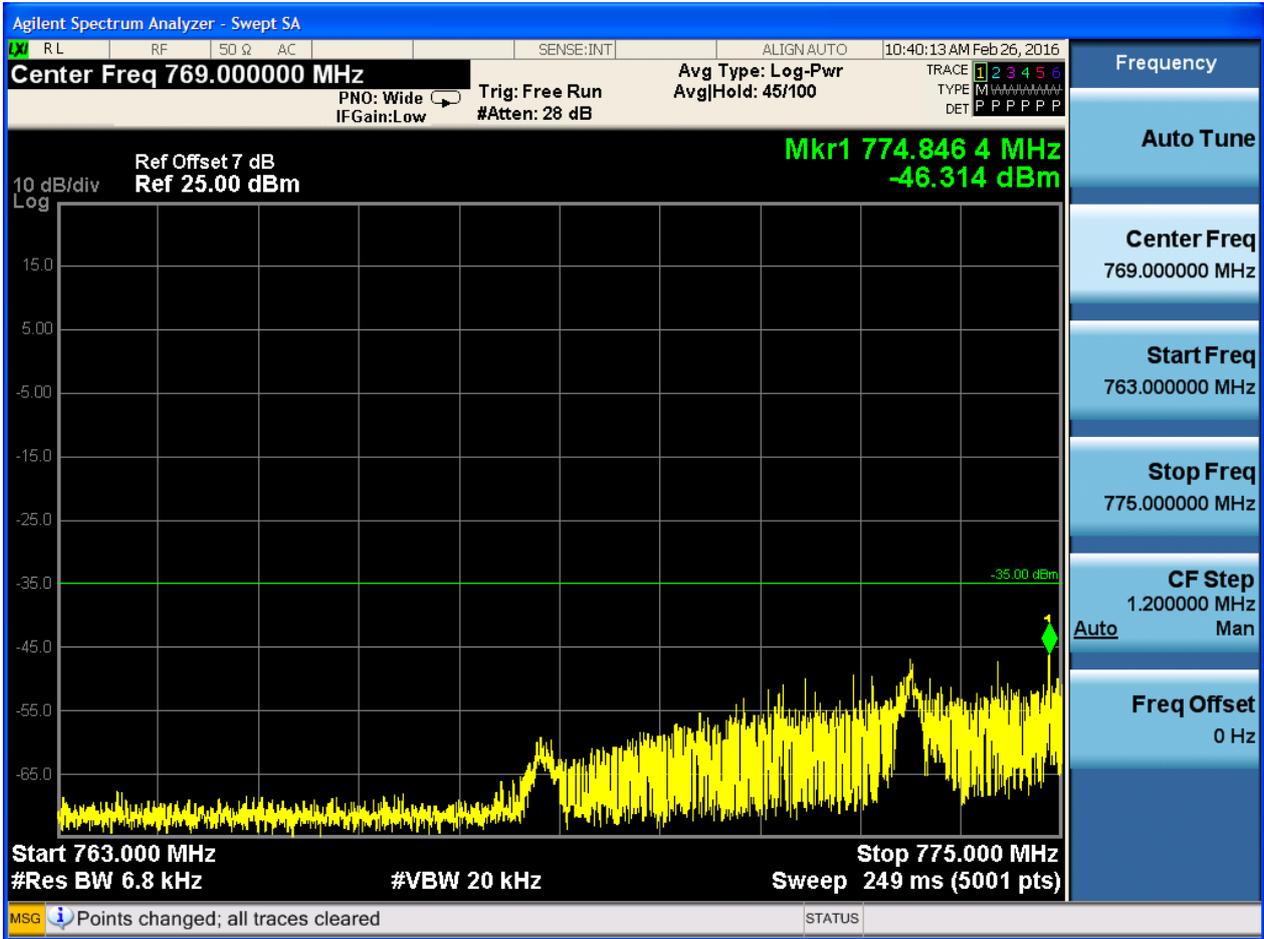
6.1.1.2.2.1 Test Channel = LCH

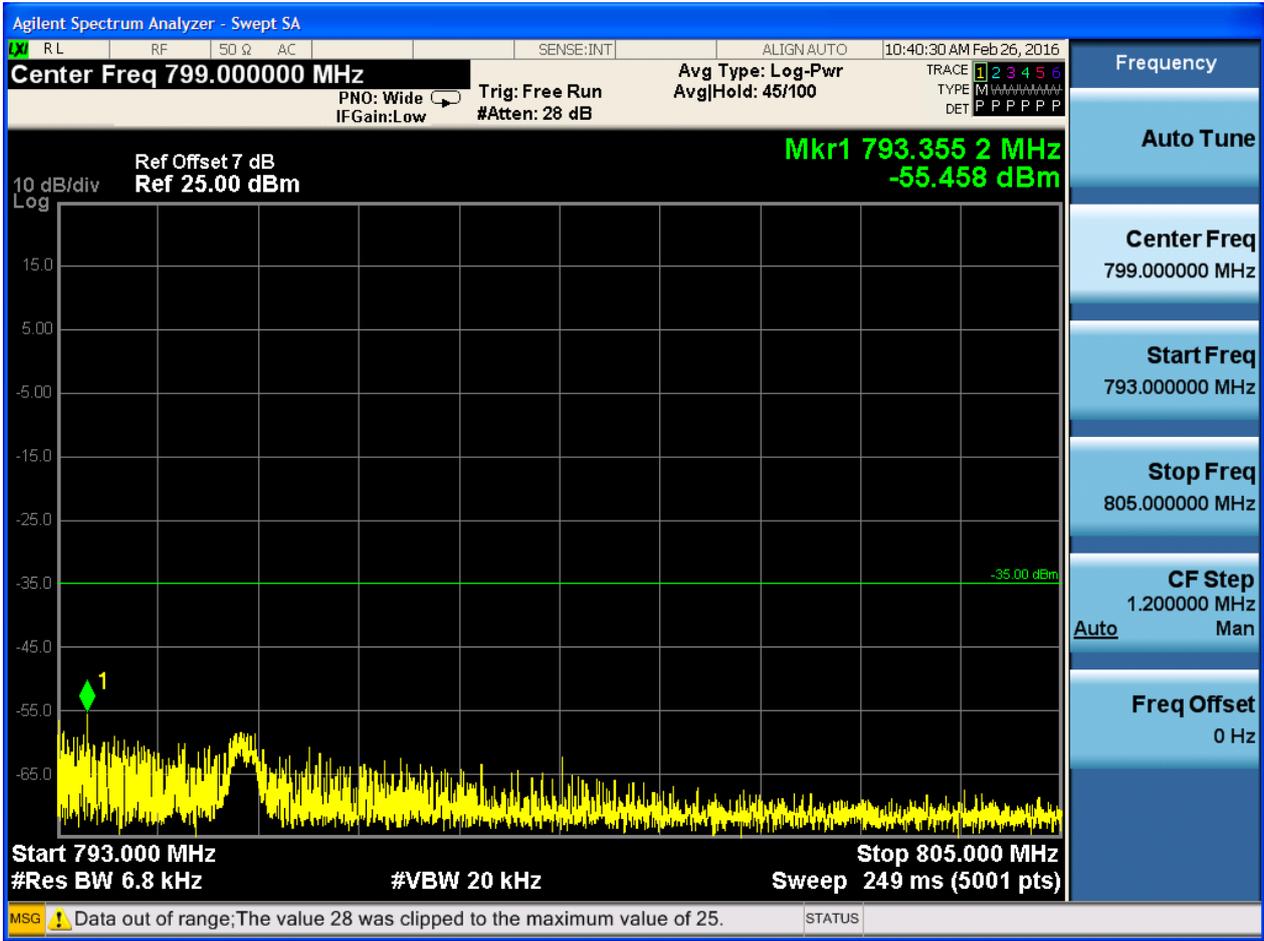
6.1.1.2.2.1.1 Test RB = RB1#0







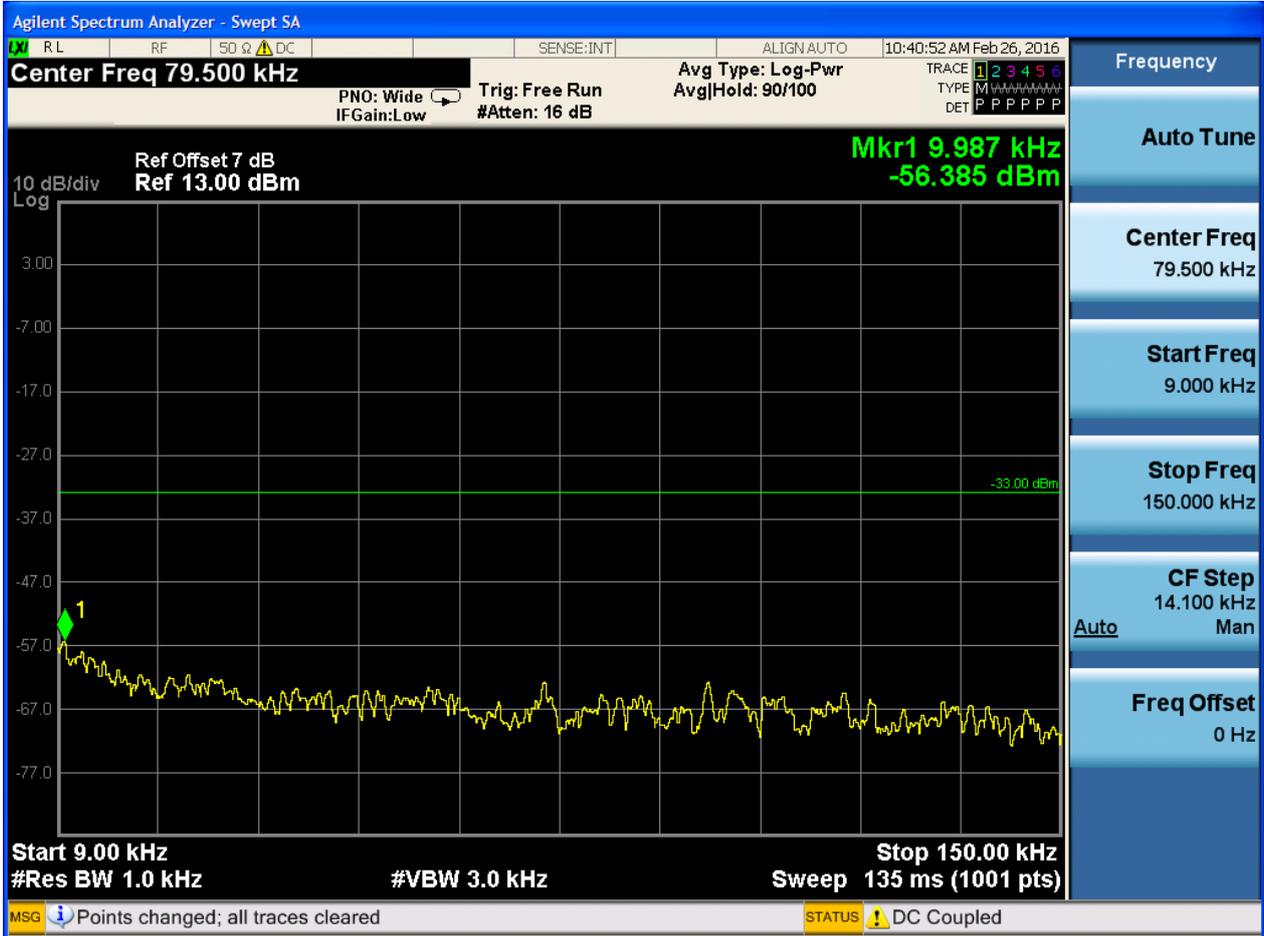


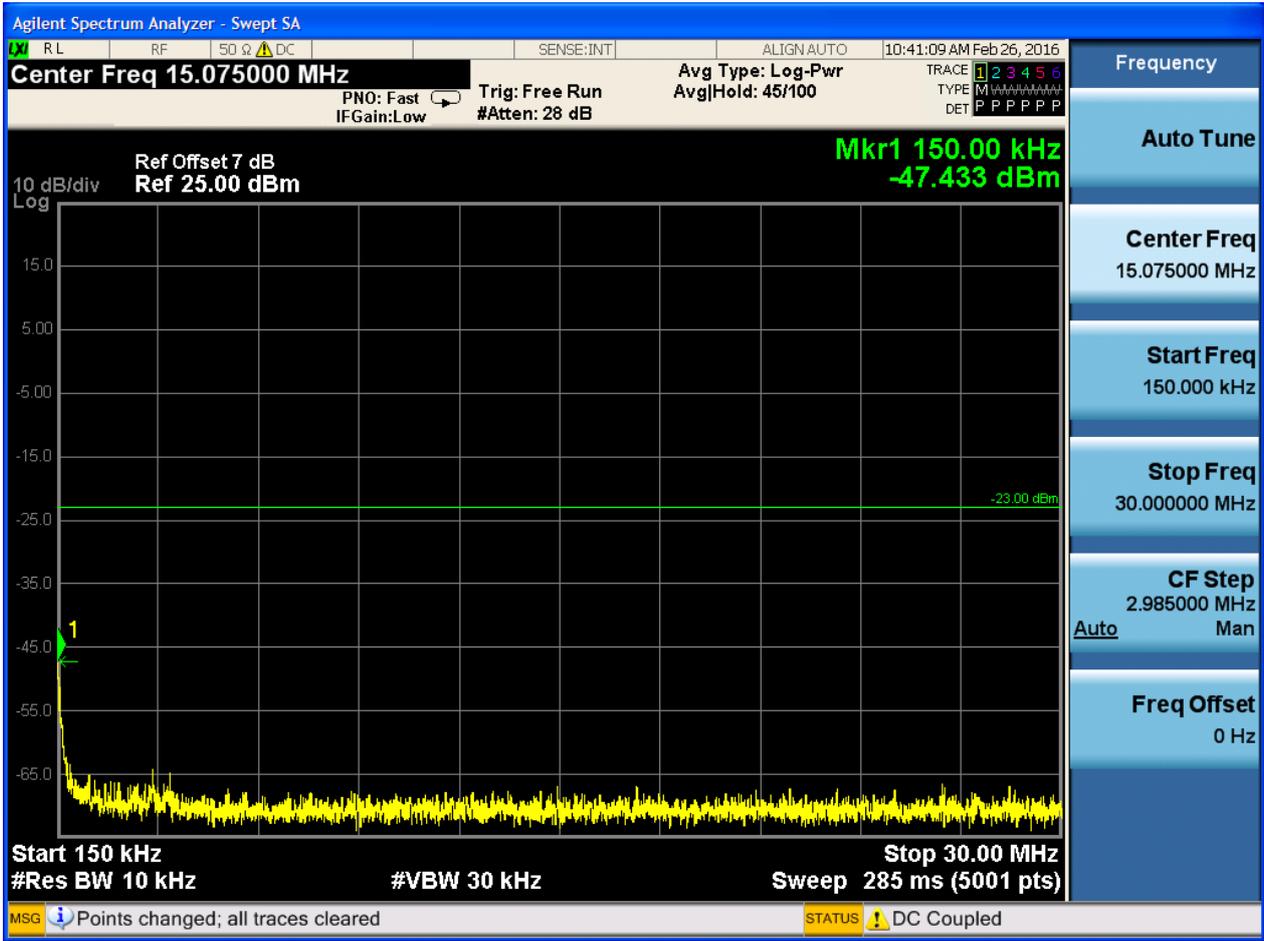




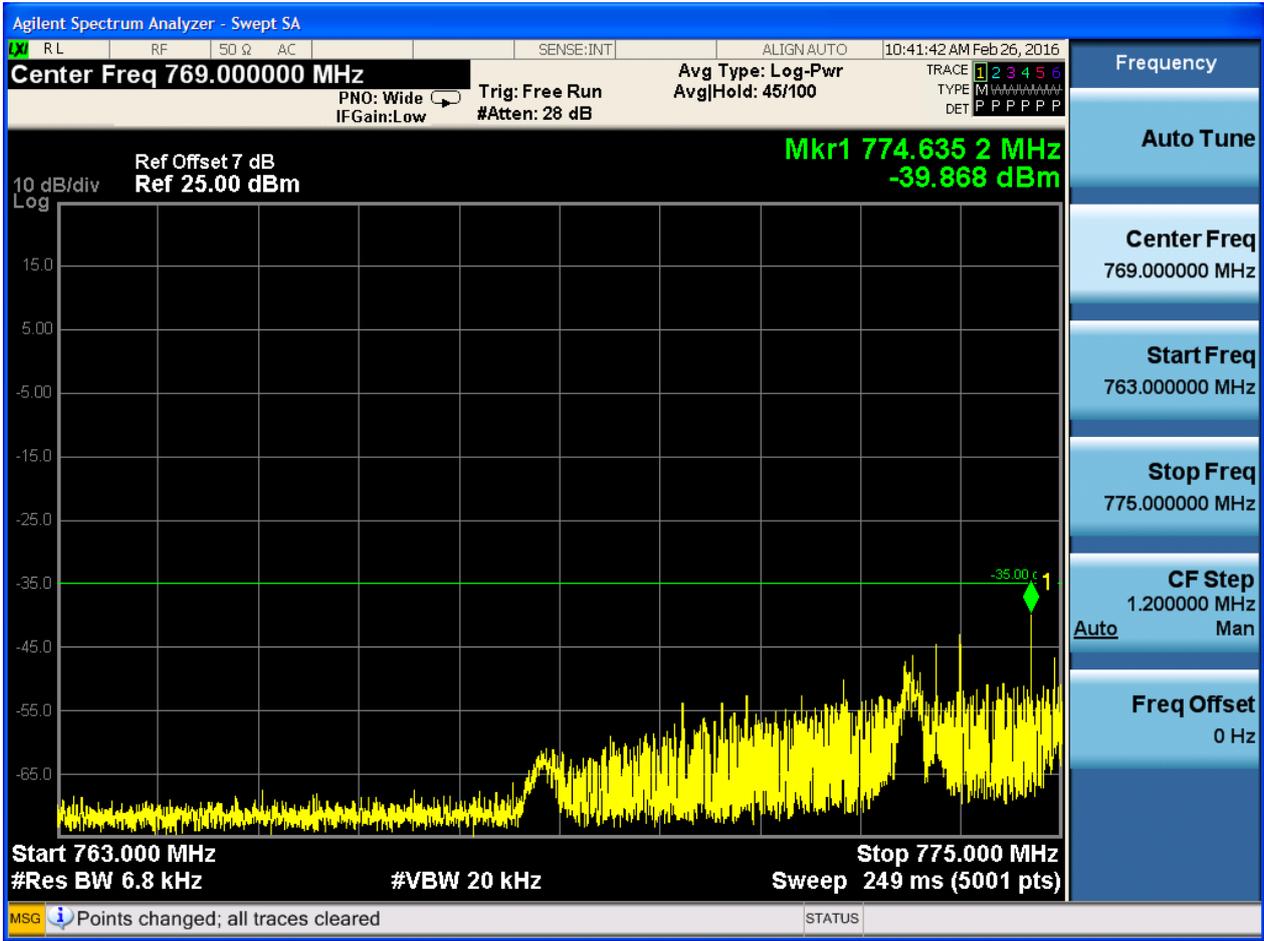
6.1.1.2.2 Test Channel = MCH

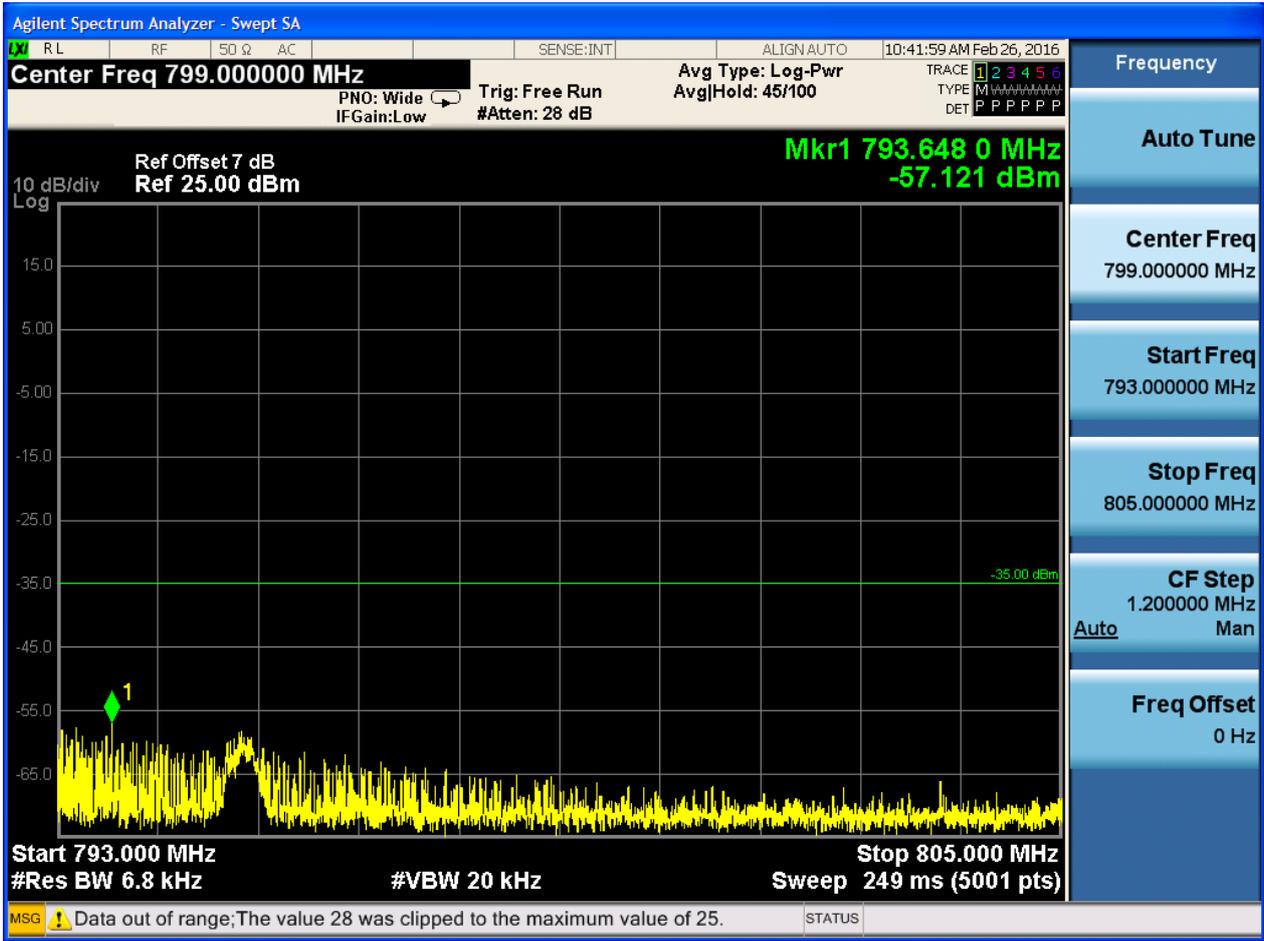
6.1.1.2.2.1 Test RB = RB1#0







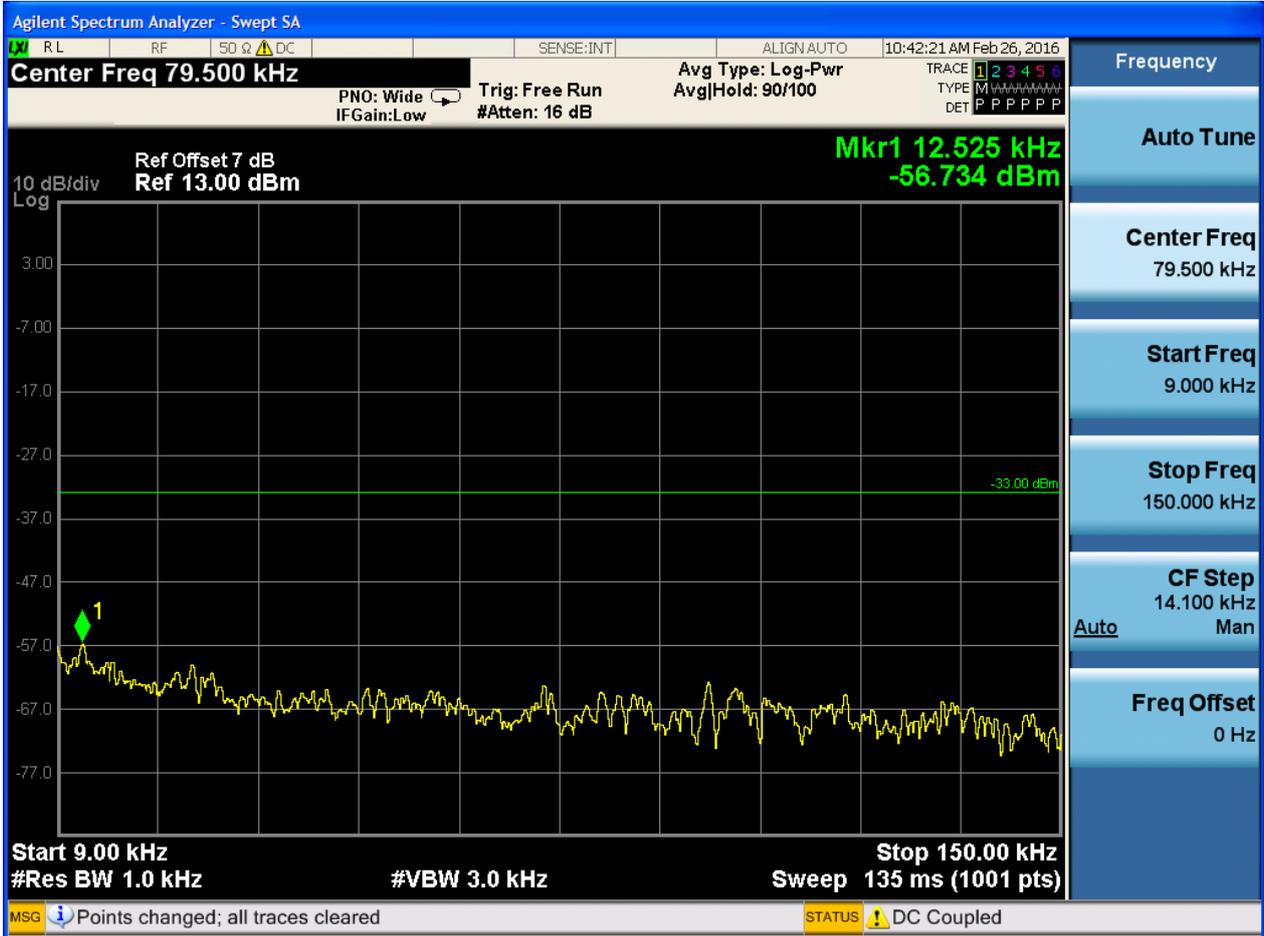




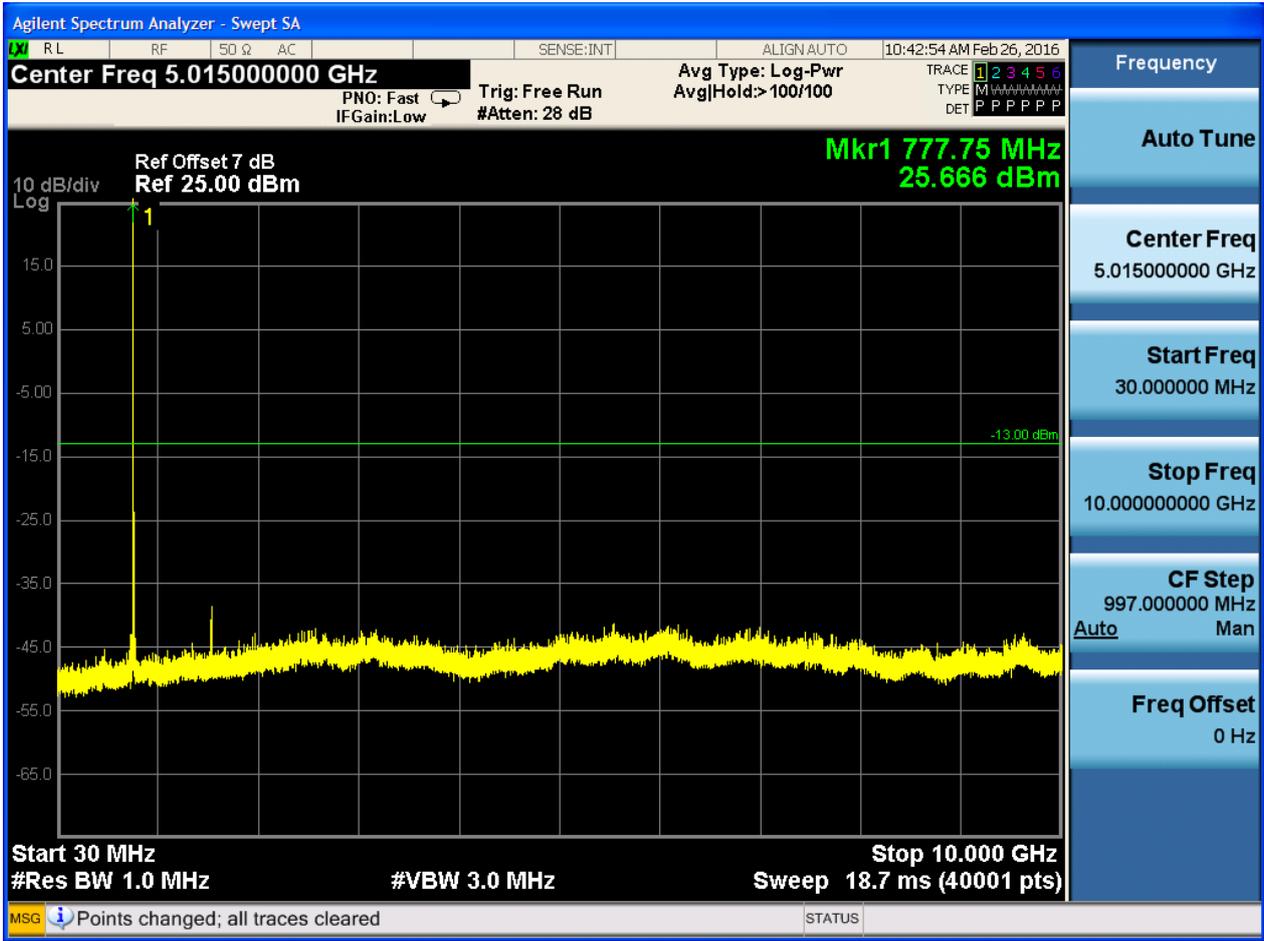


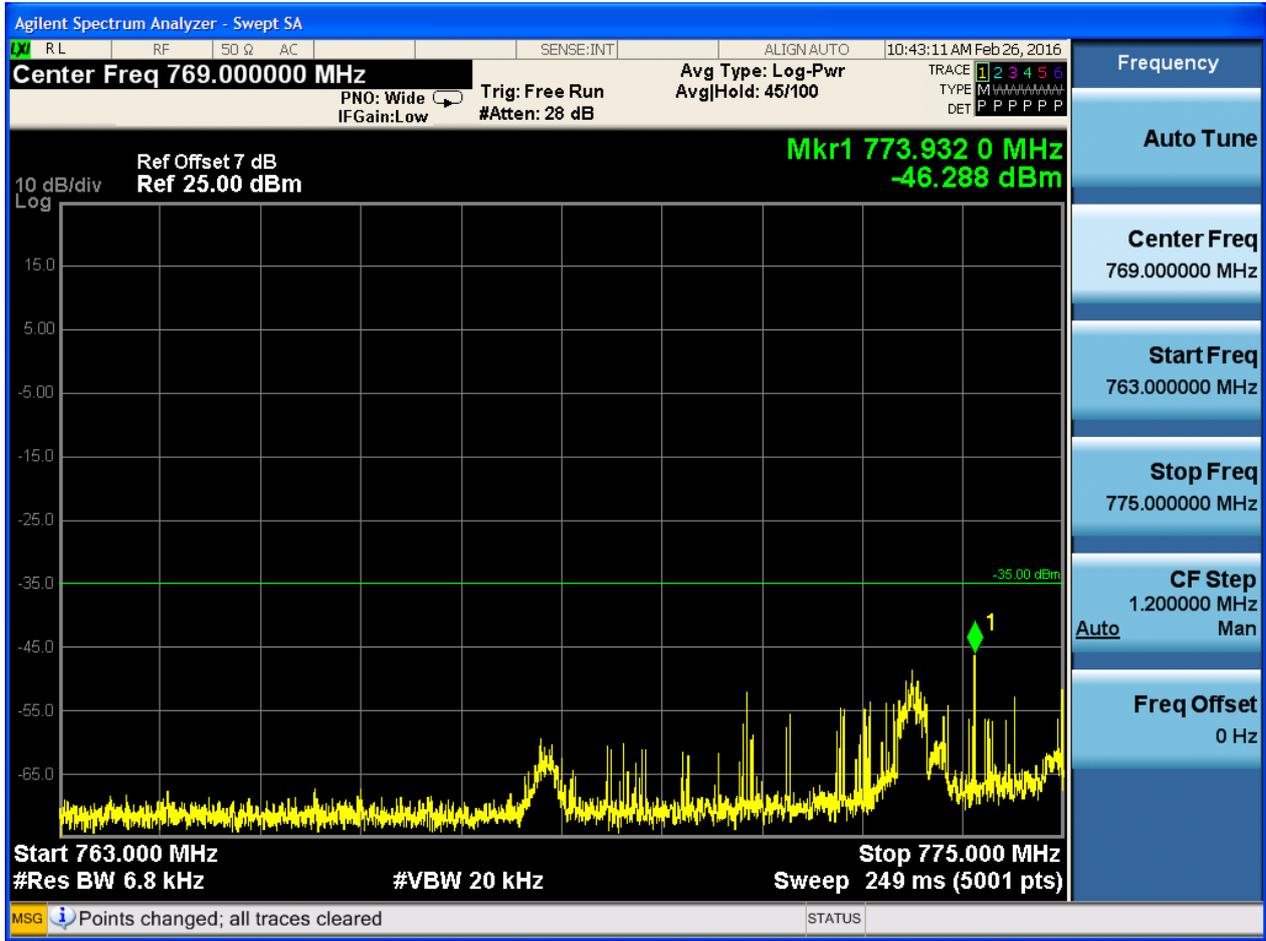
6.1.1.2.2.3 Test Channel = HCH

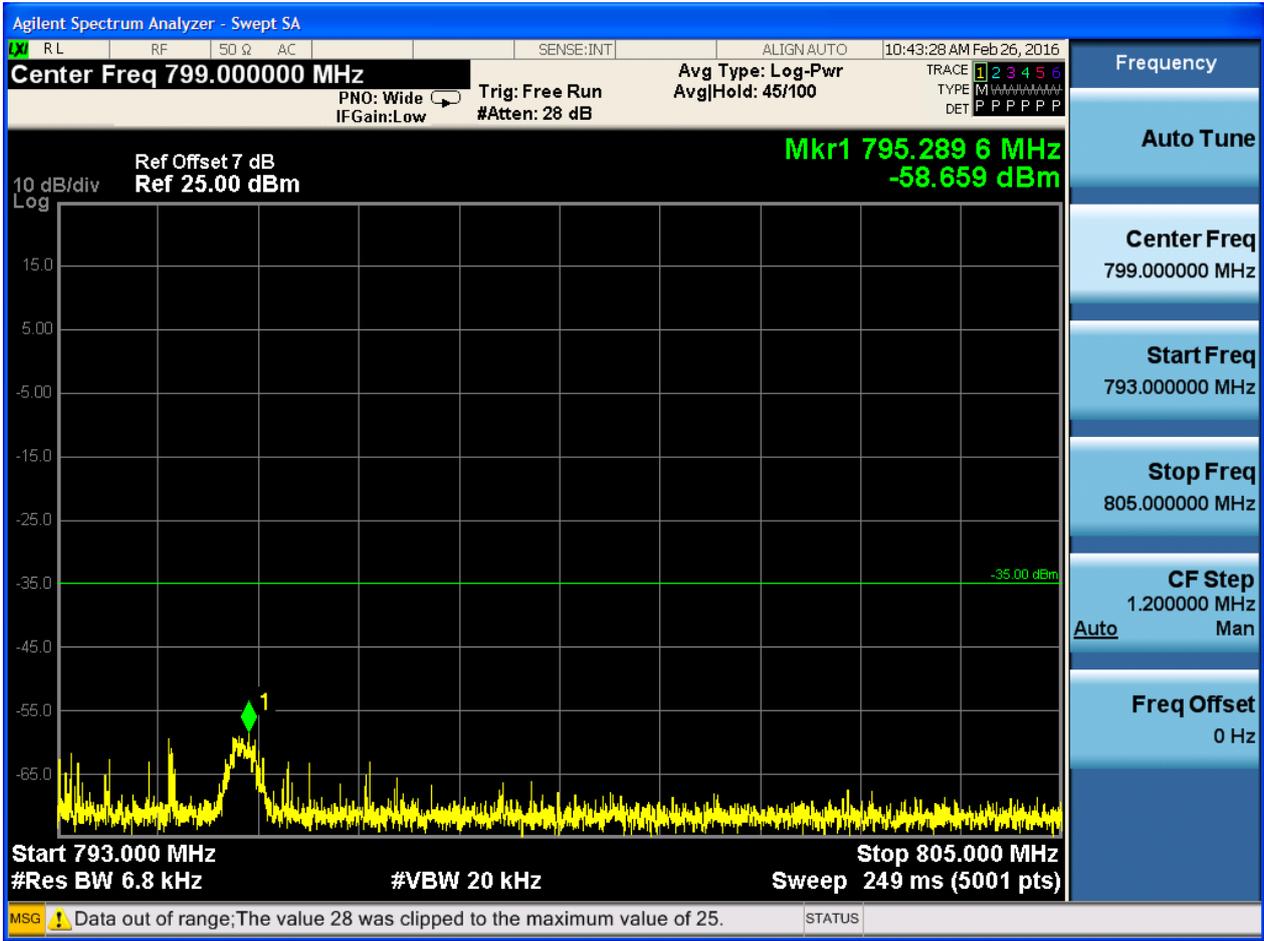
6.1.1.2.2.3.1 Test RB = RB1#0













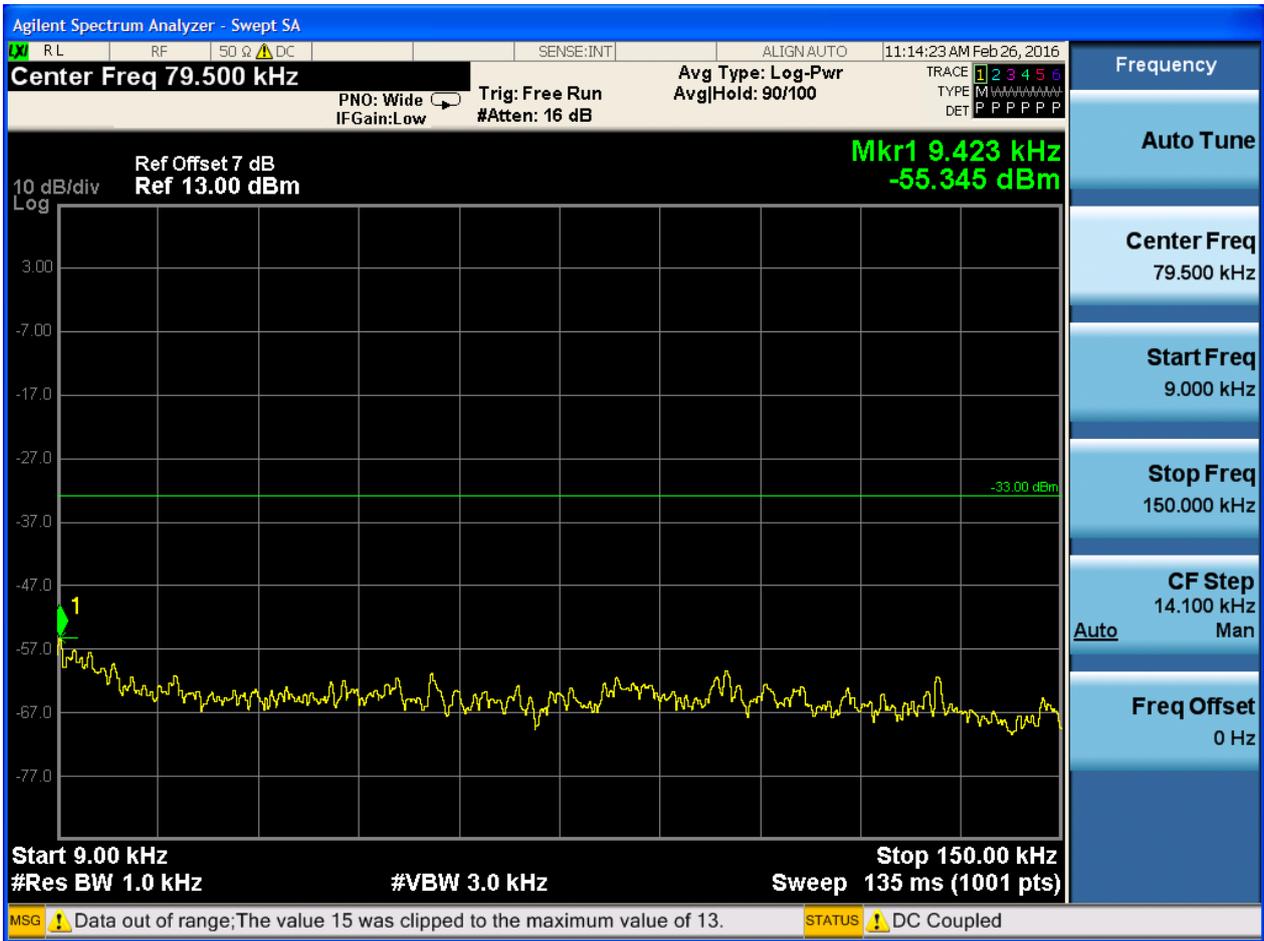
6.1.2 Test Band = BAND17

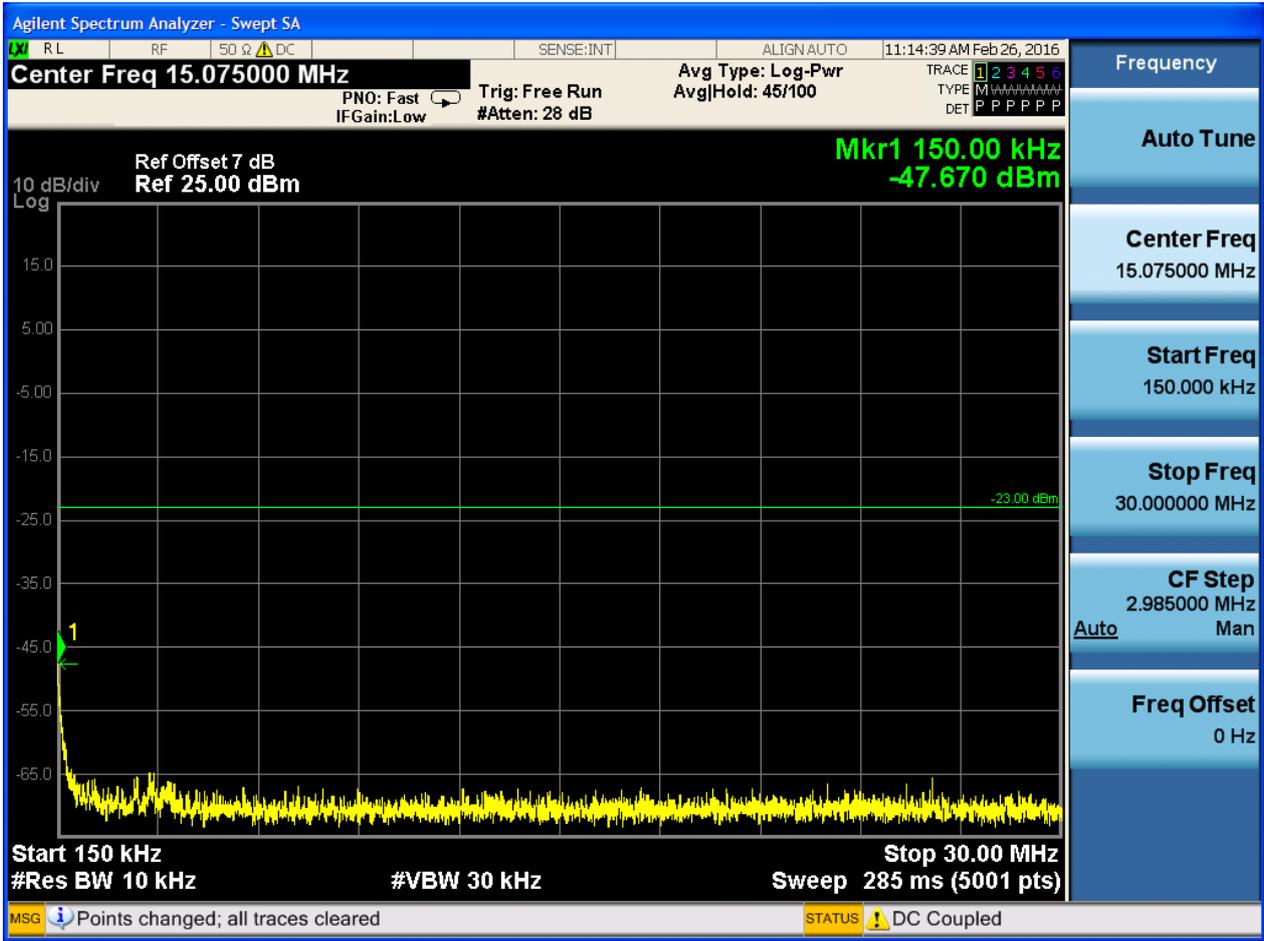
6.1.2.1 Test Mode = LTE/TM1

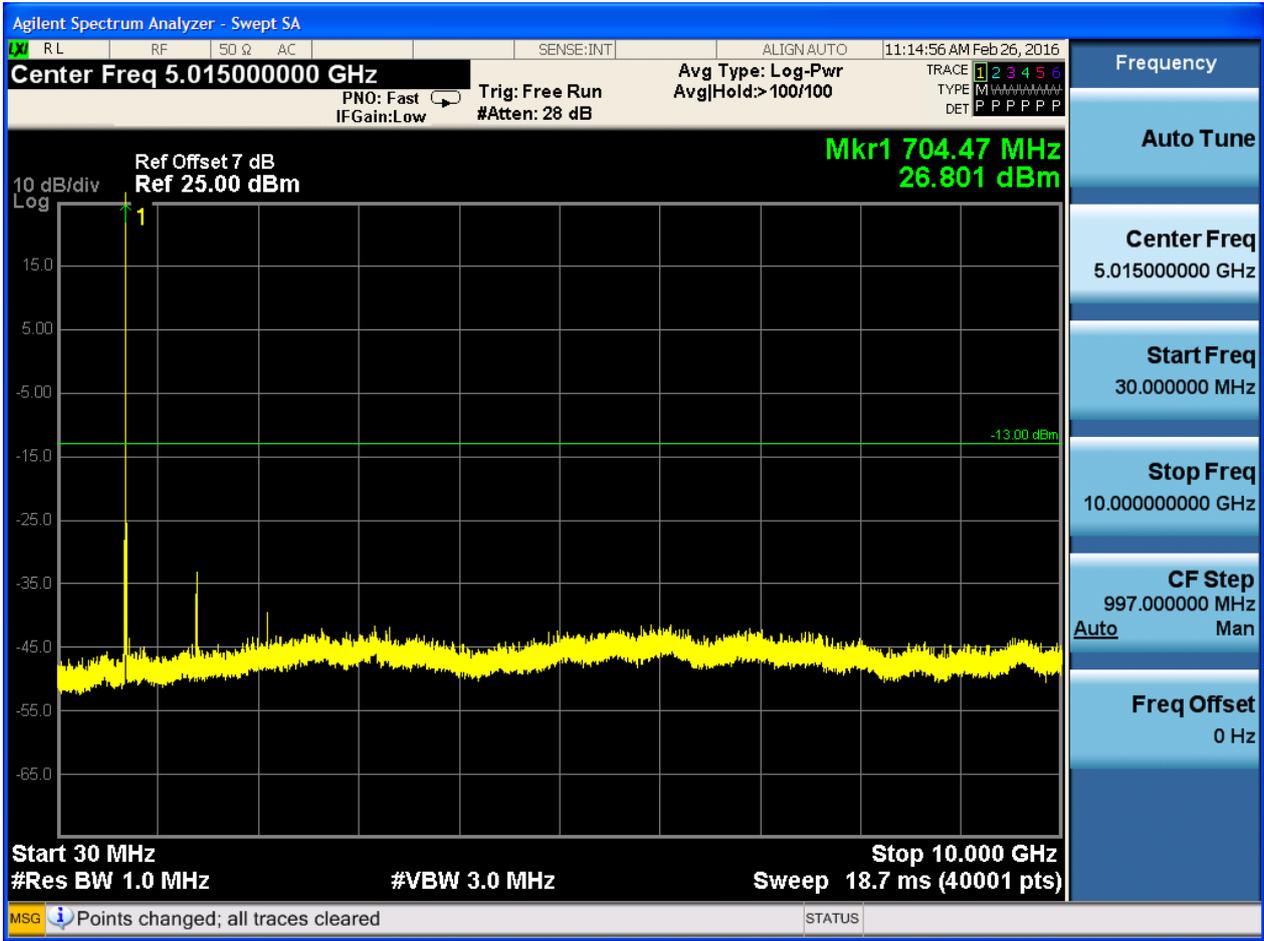
6.1.2.1.1 Test Bandwidth = 5

6.1.2.1.1.1 Test Channel = LCH

6.1.2.1.1.1.1 Test RB = RB1#0



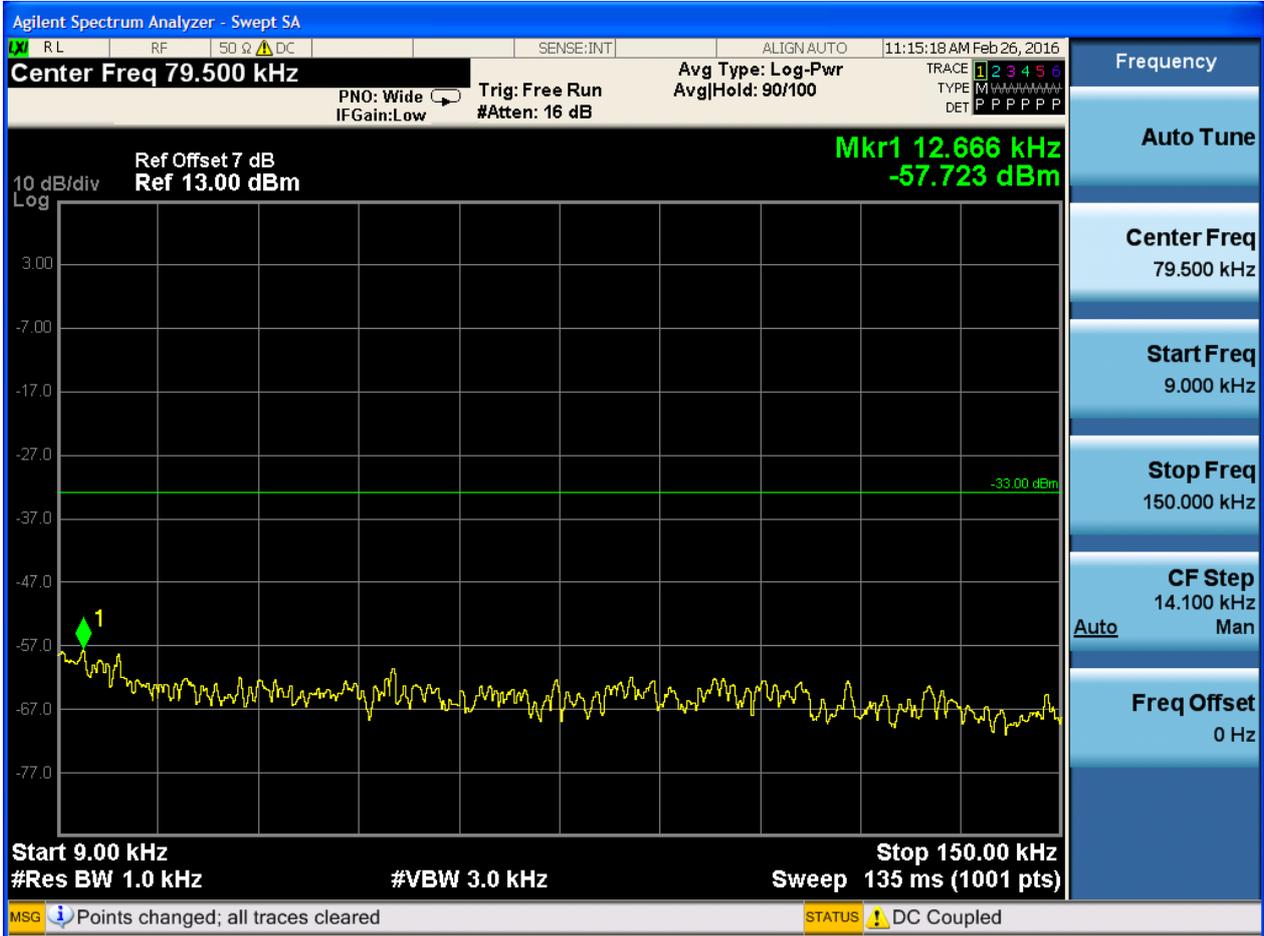


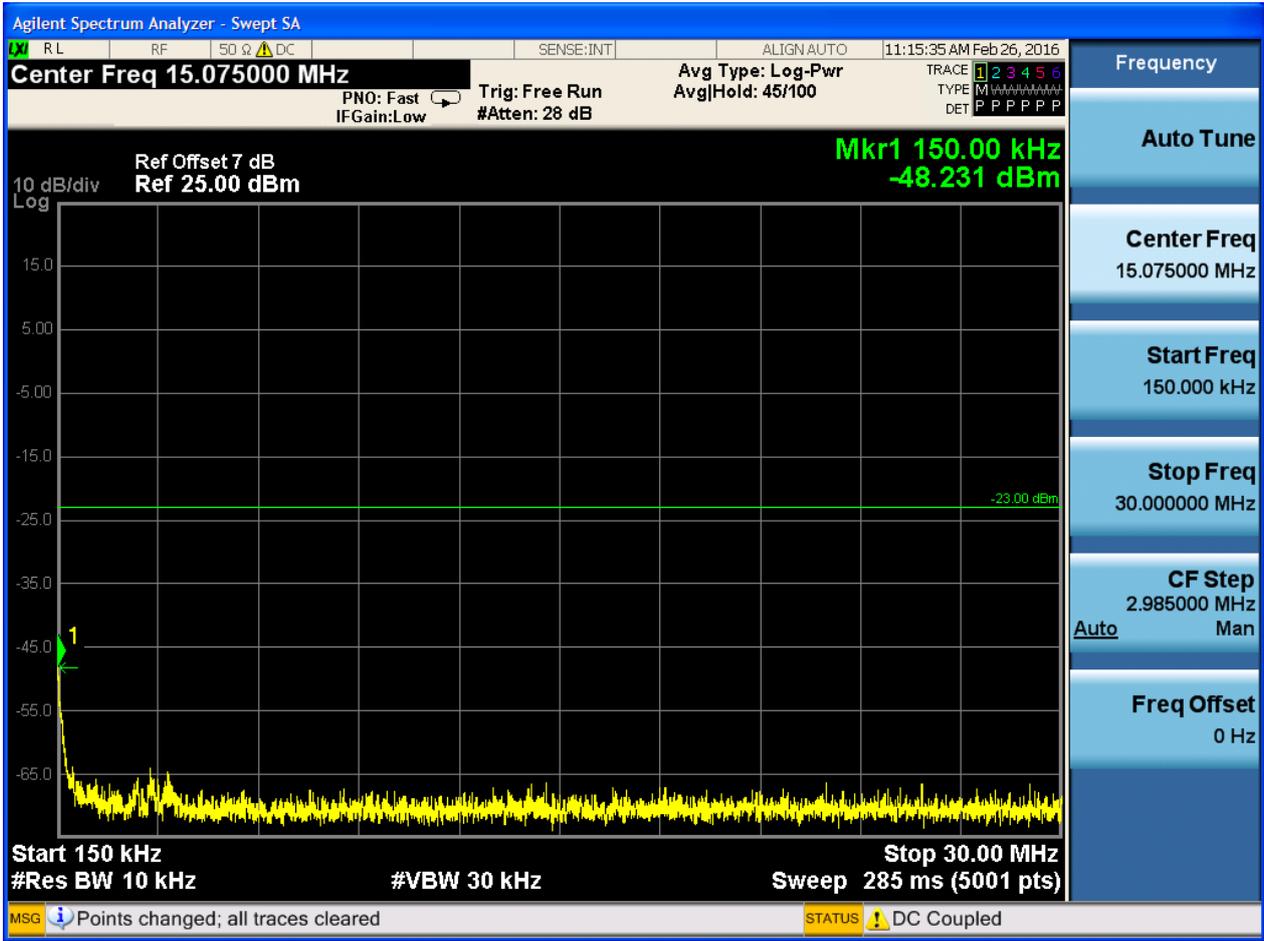


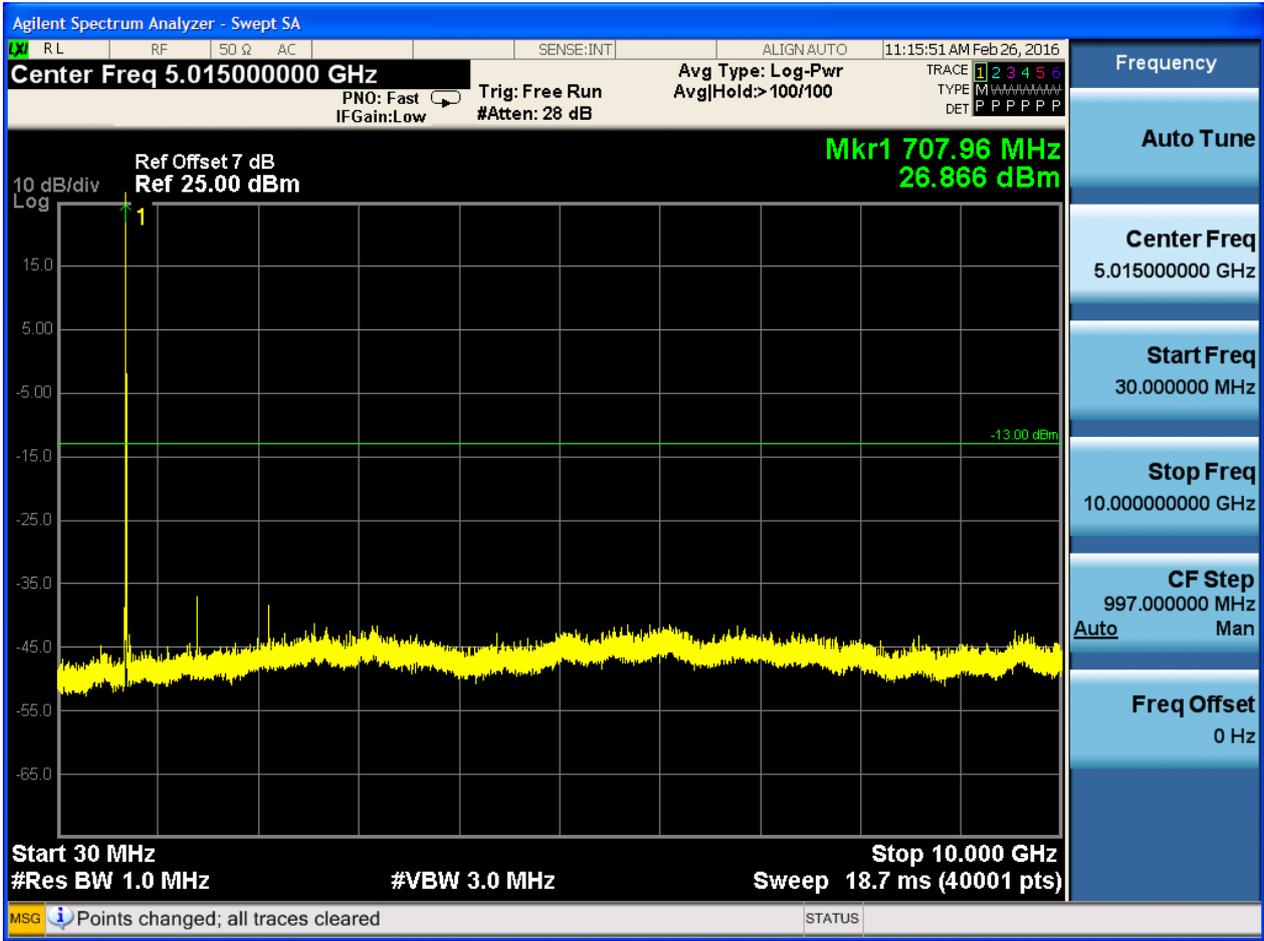


6.1.2.1.1.2 Test Channel = MCH

6.1.2.1.1.2.1 Test RB = RB1#0



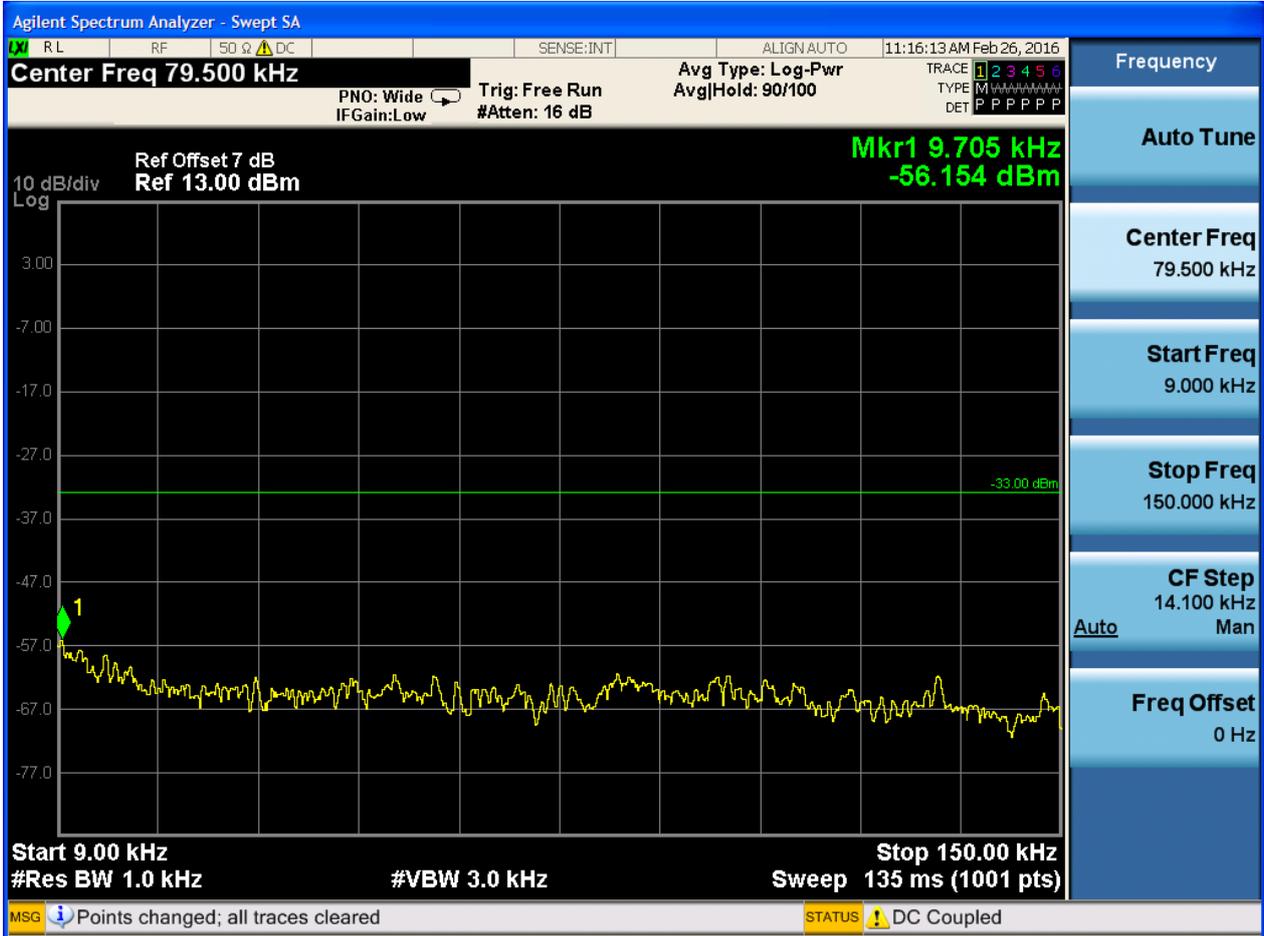


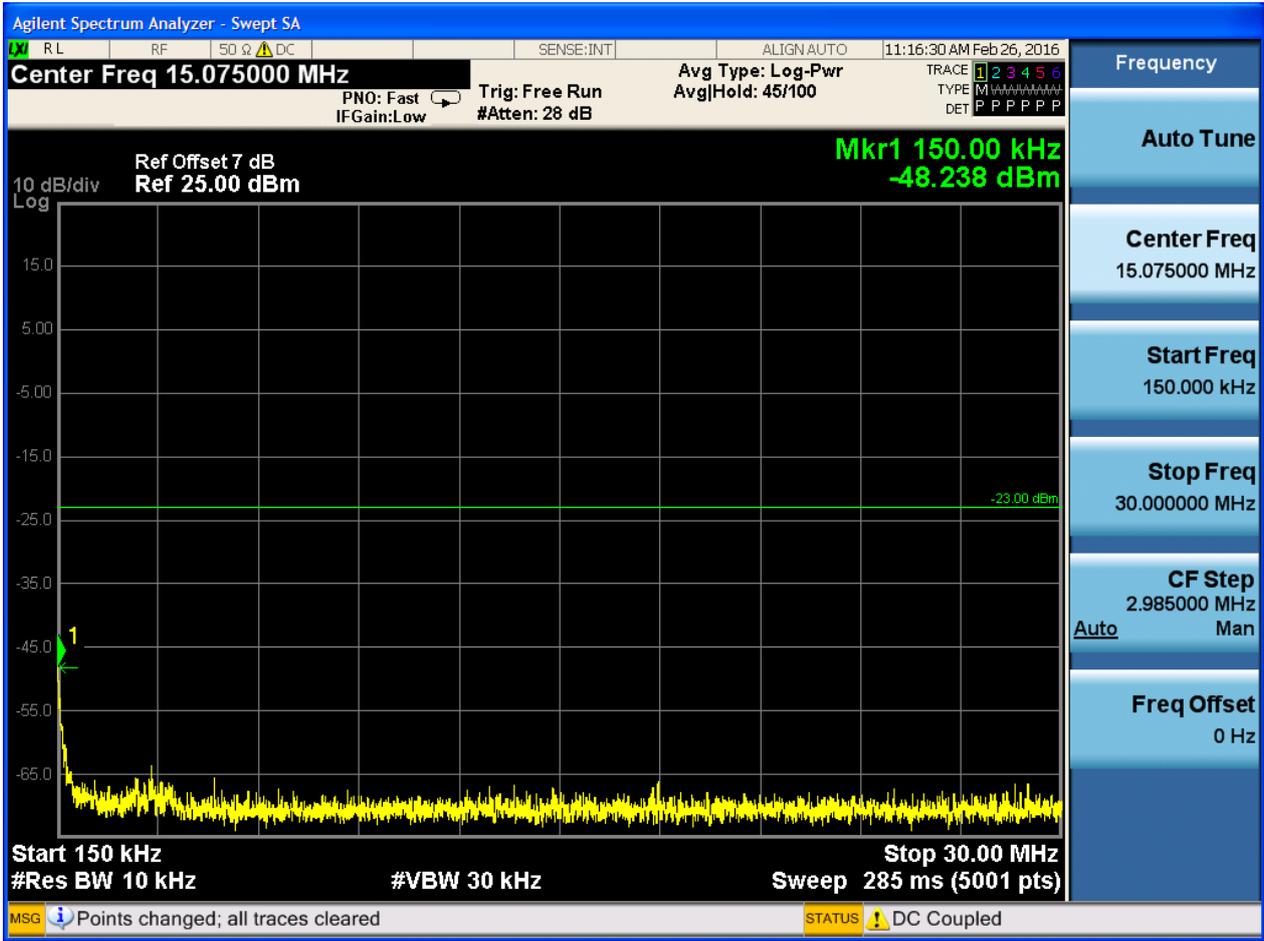


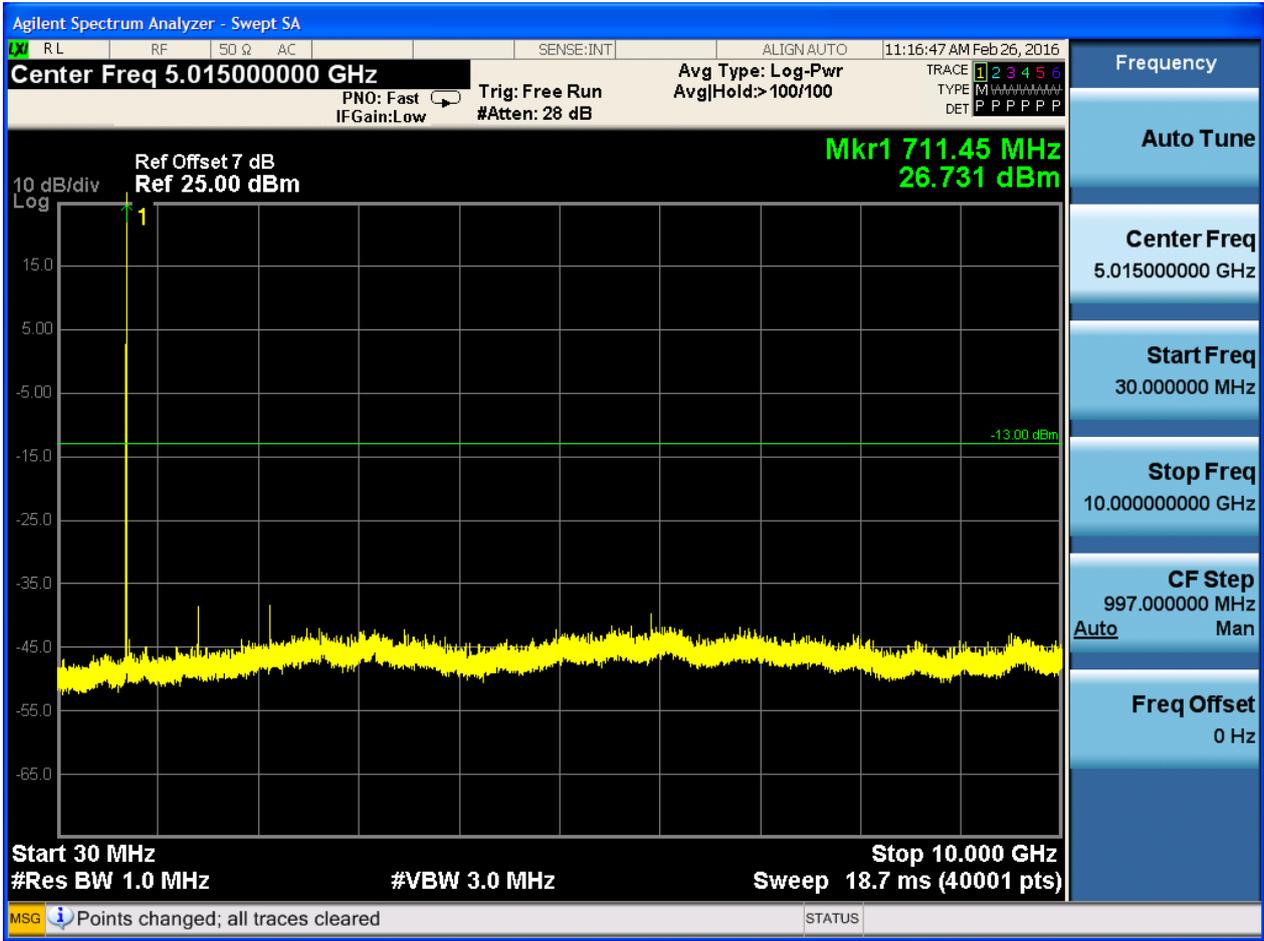


6.1.2.1.1.3 Test Channel = HCH

6.1.2.1.1.3.1 Test RB = RB1#0





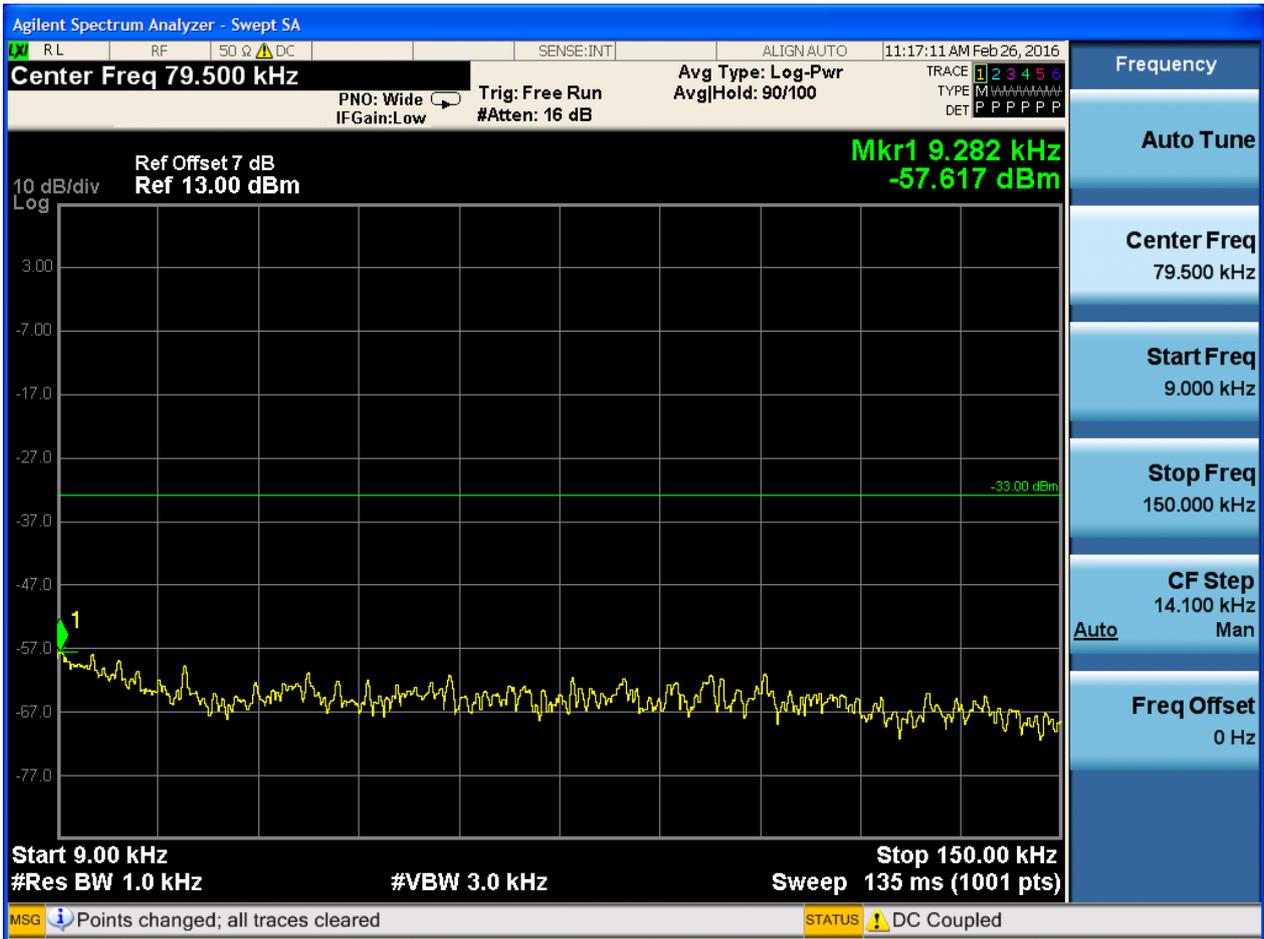


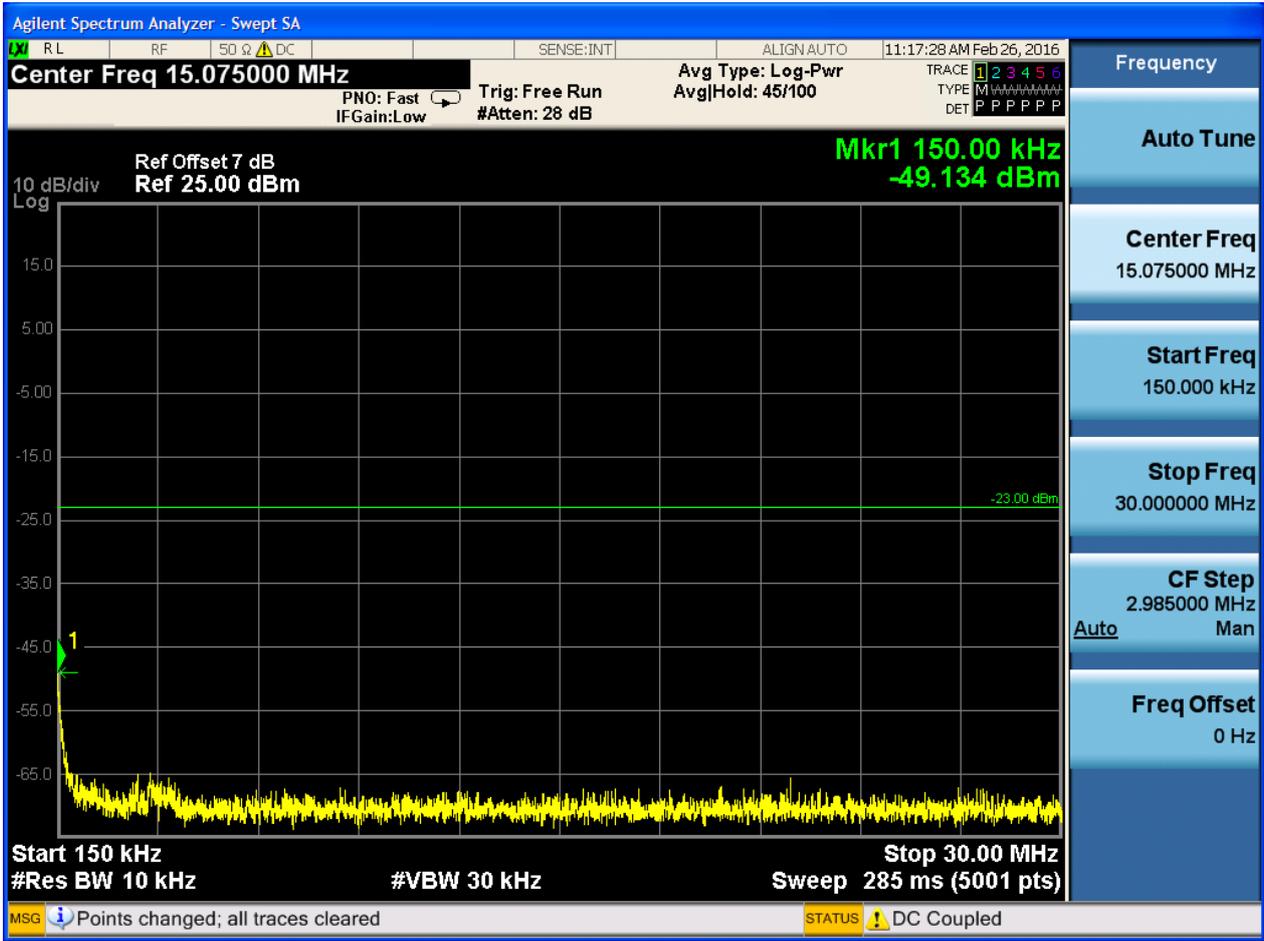


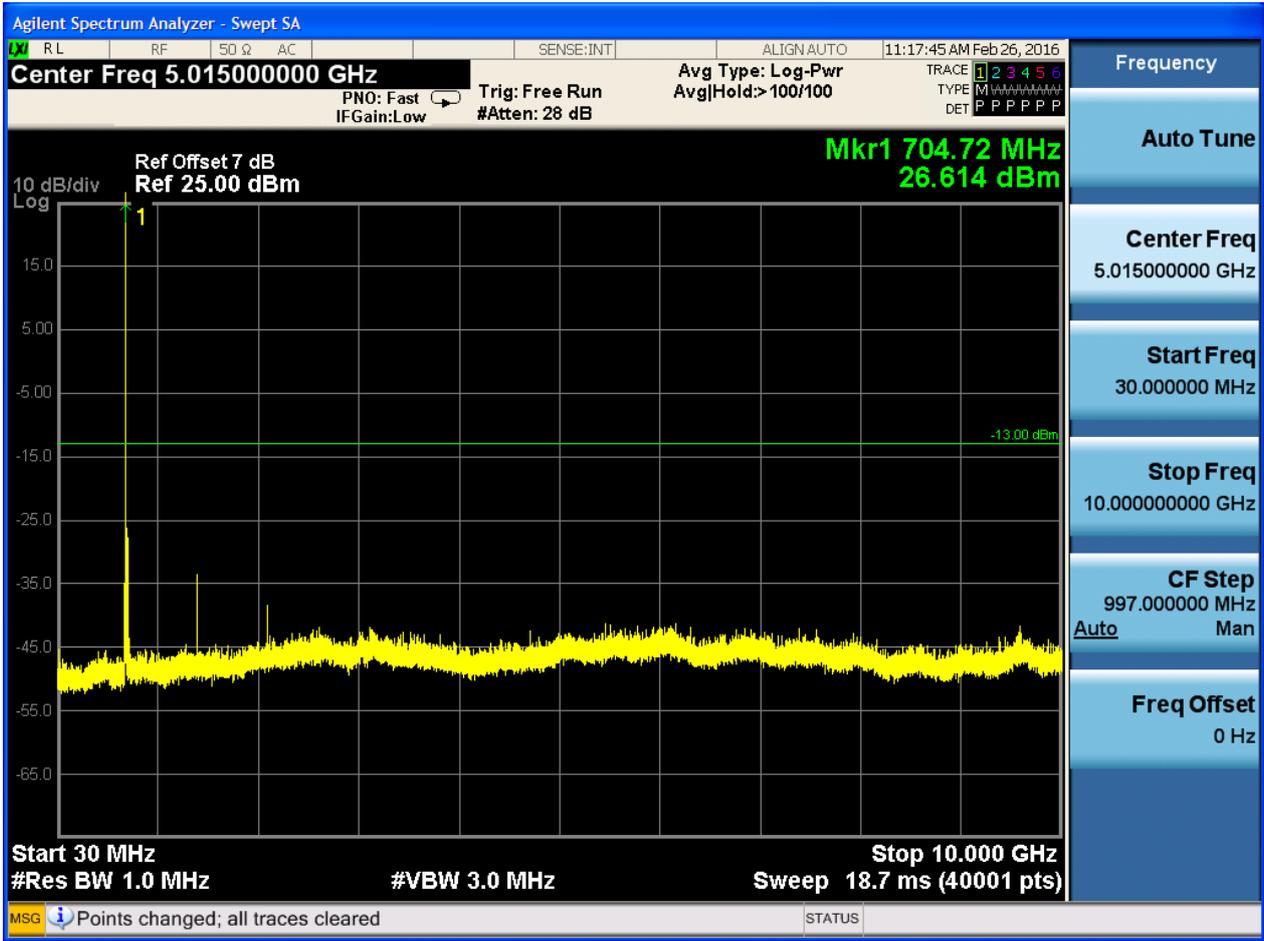
6.1.2.1.2 Test Bandwidth = 10

6.1.2.1.2.1 Test Channel = LCH

6.1.2.1.2.1.1 Test RB = RB1#0



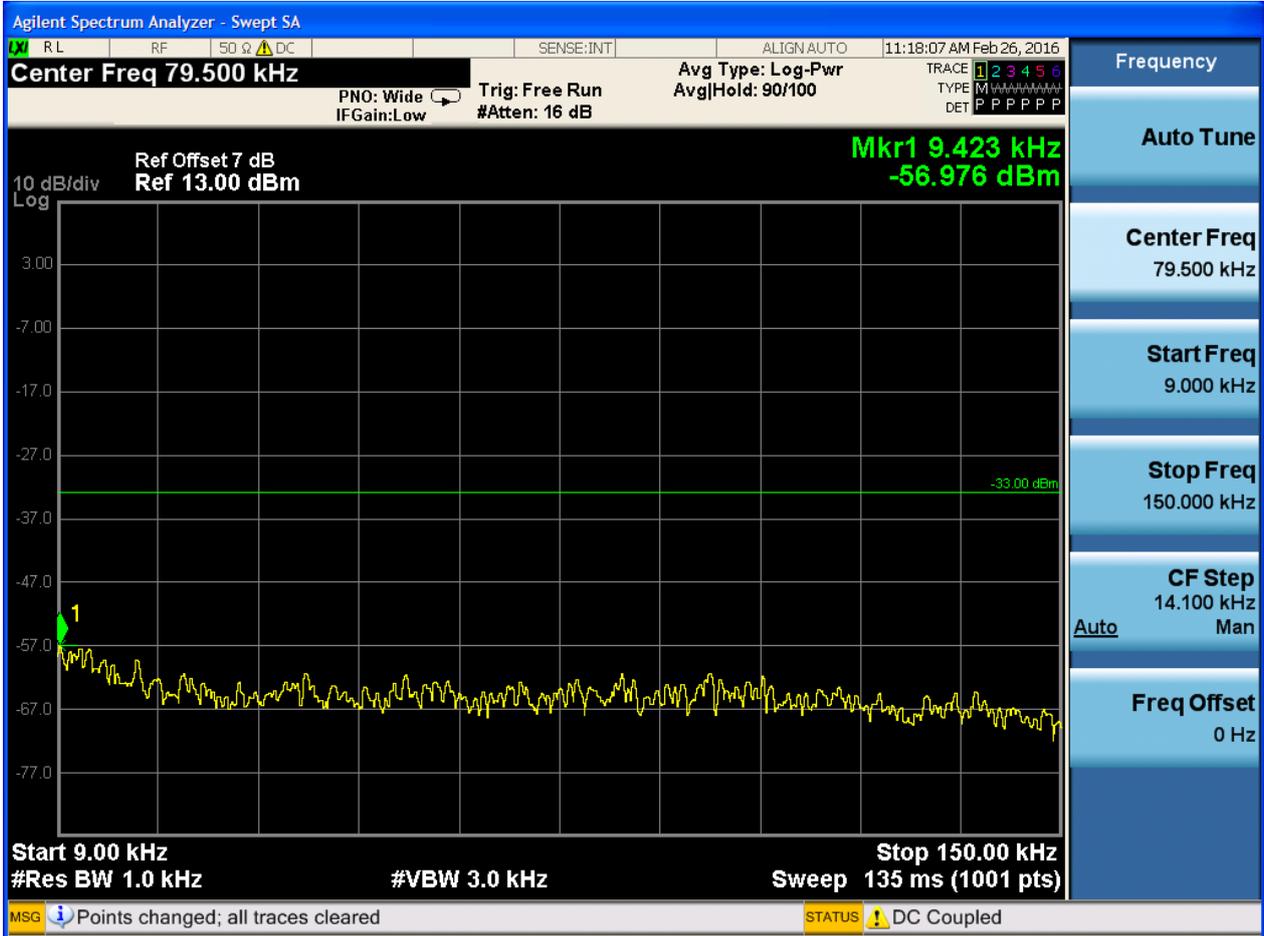


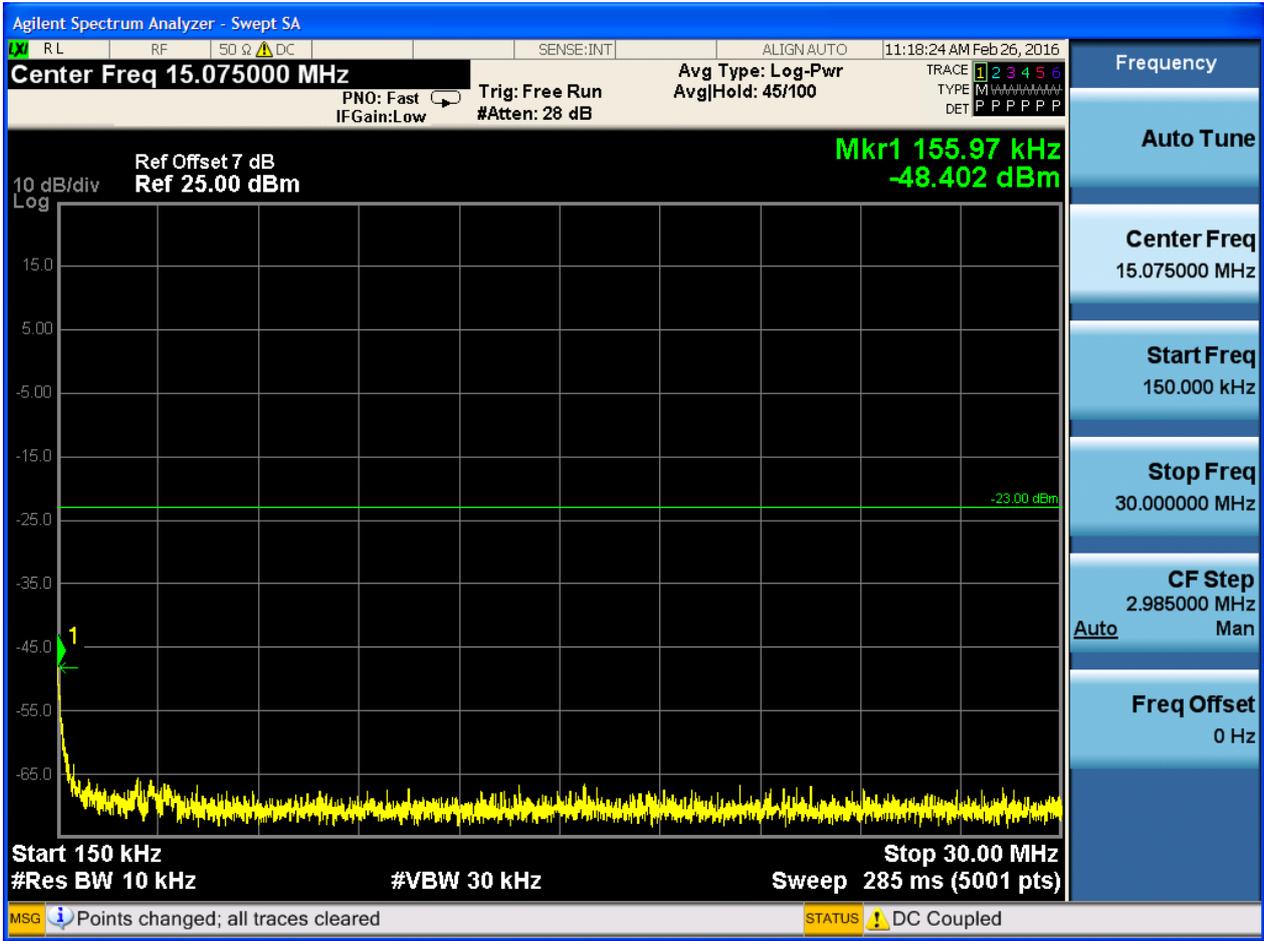


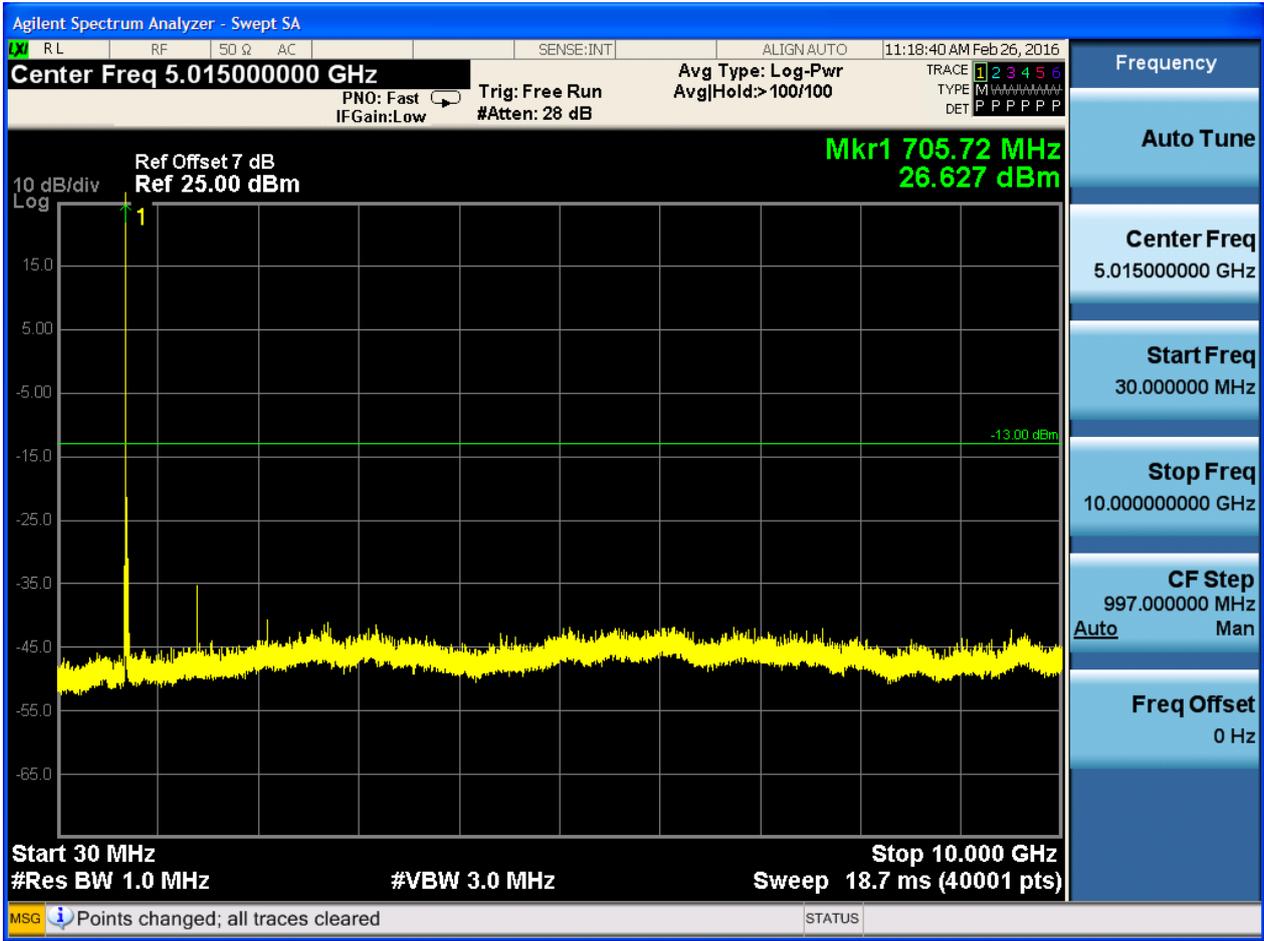


6.1.2.1.2.2 Test Channel = MCH

6.1.2.1.2.2.1 Test RB = RB1#0



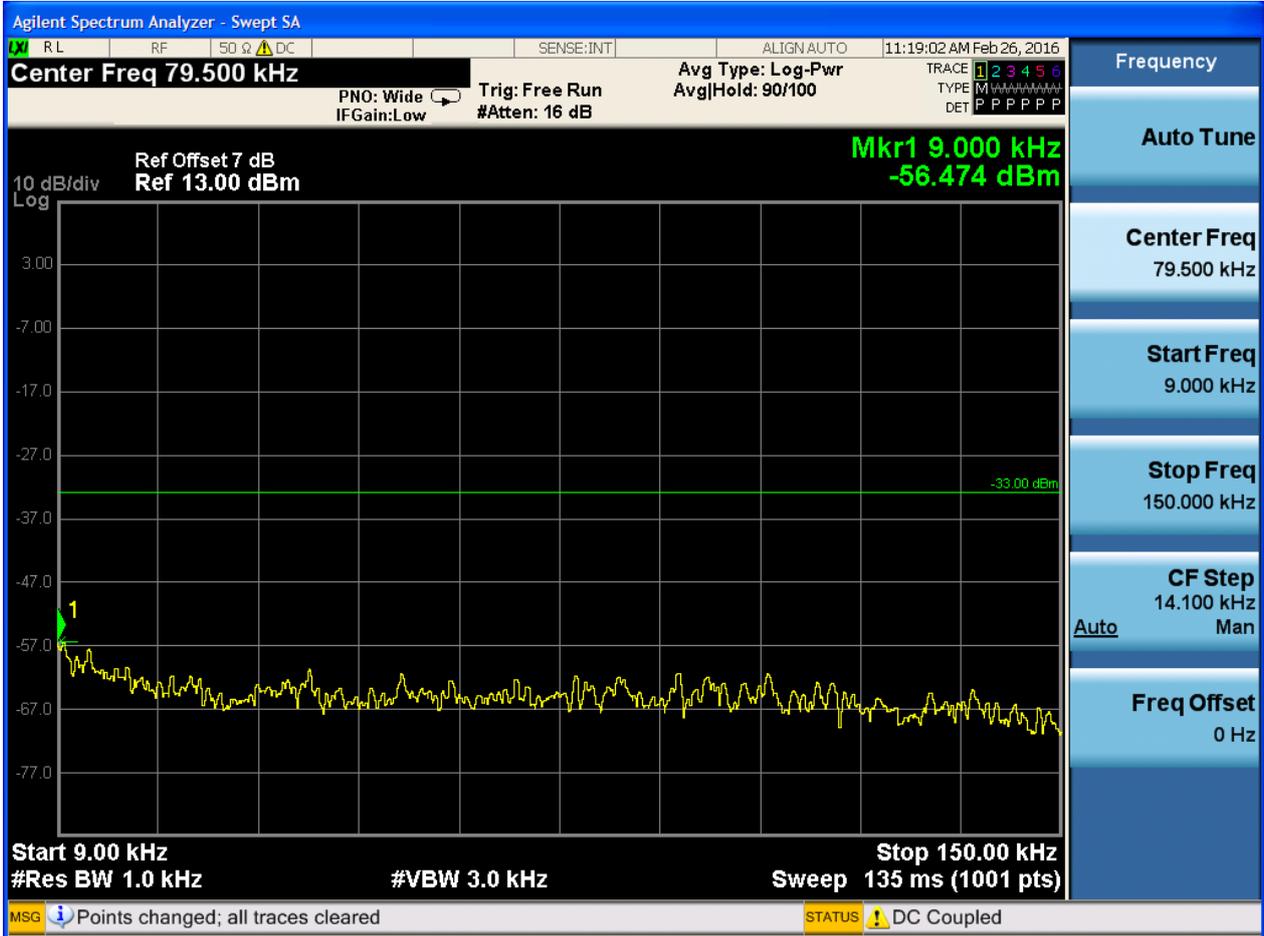






6.1.2.1.2.3 Test Channel = HCH

6.1.2.1.2.3.1 Test RB = RB1#0







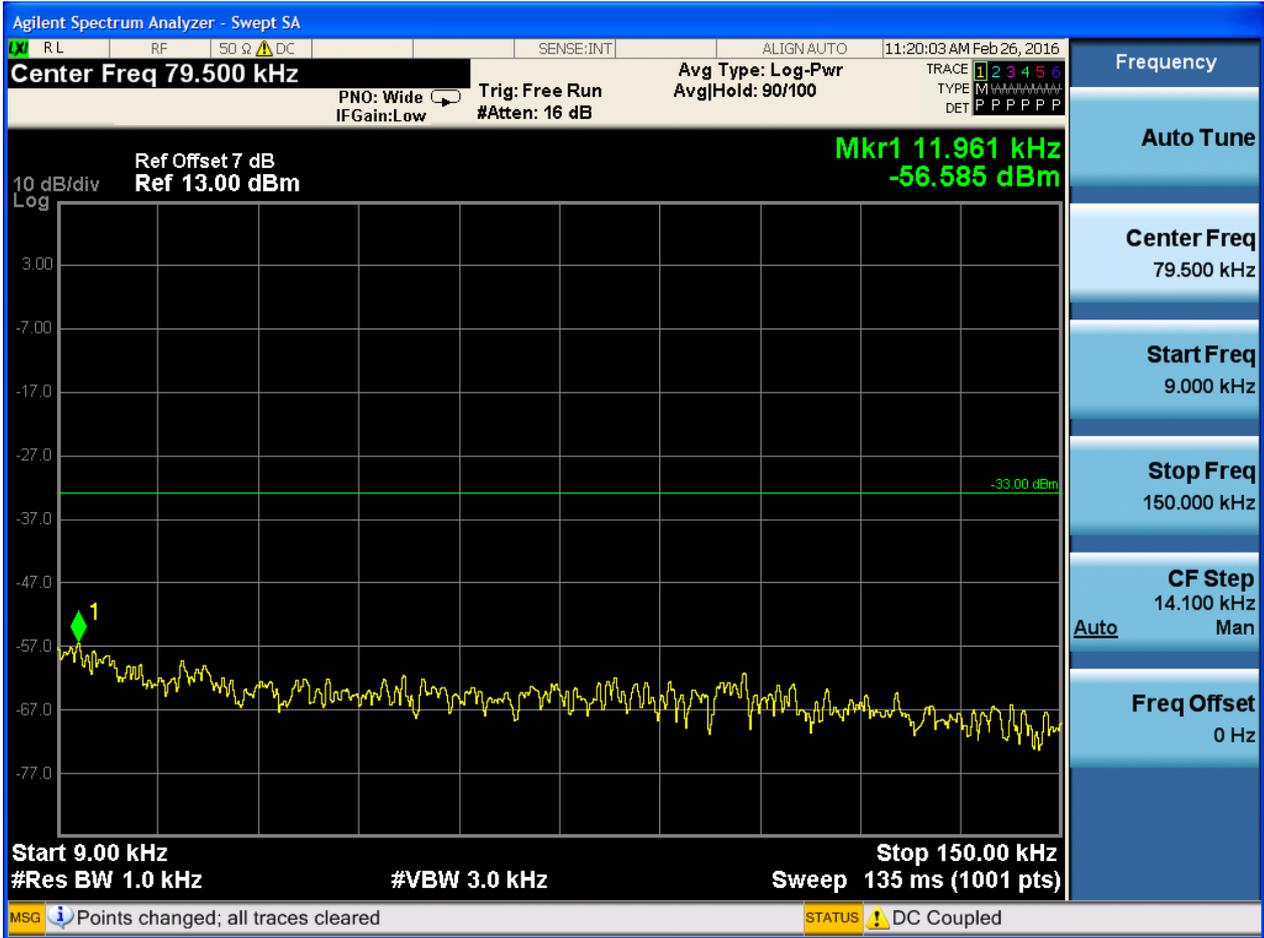


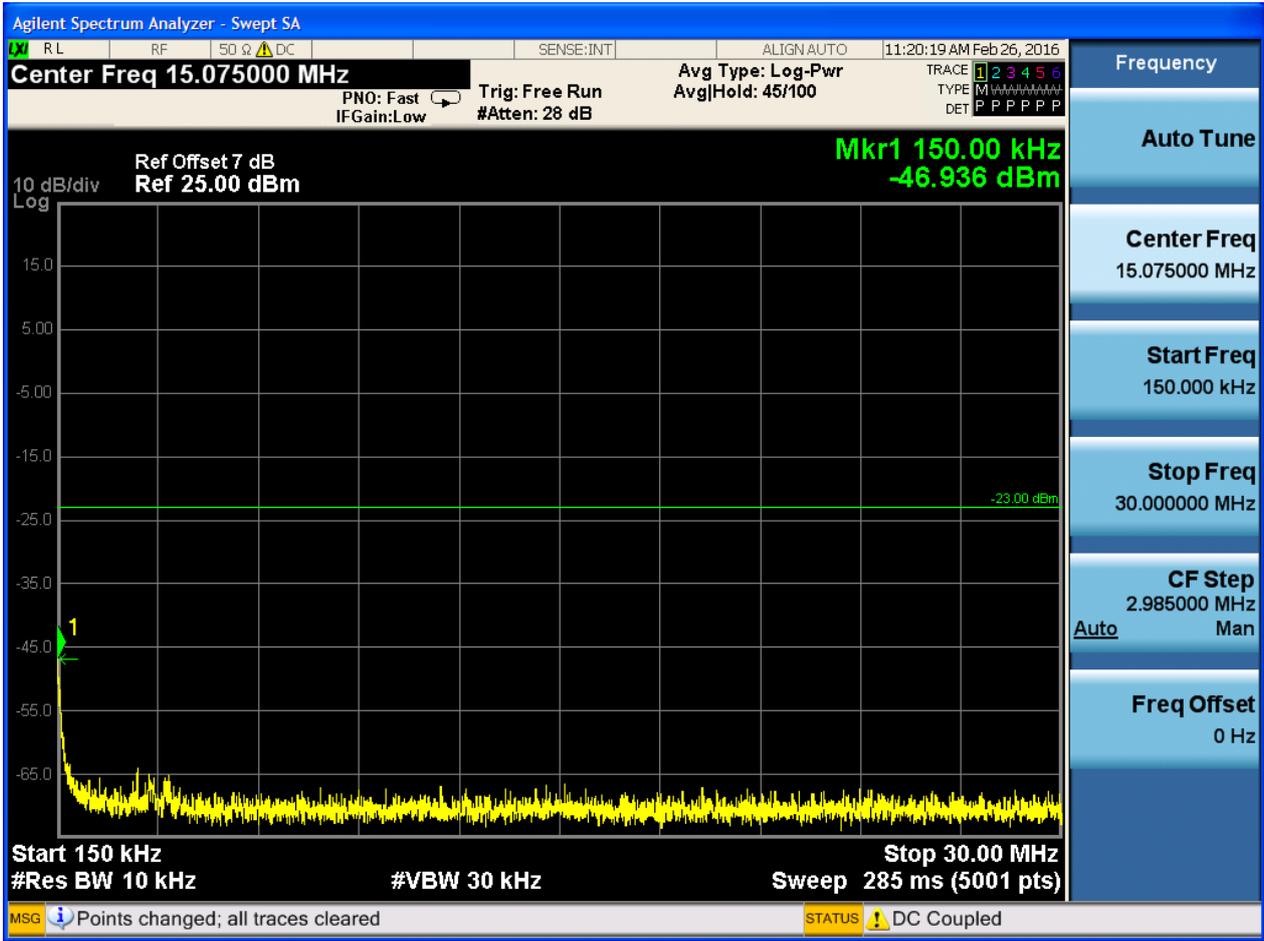
6.1.2.2 Test Mode = LTE/TM2

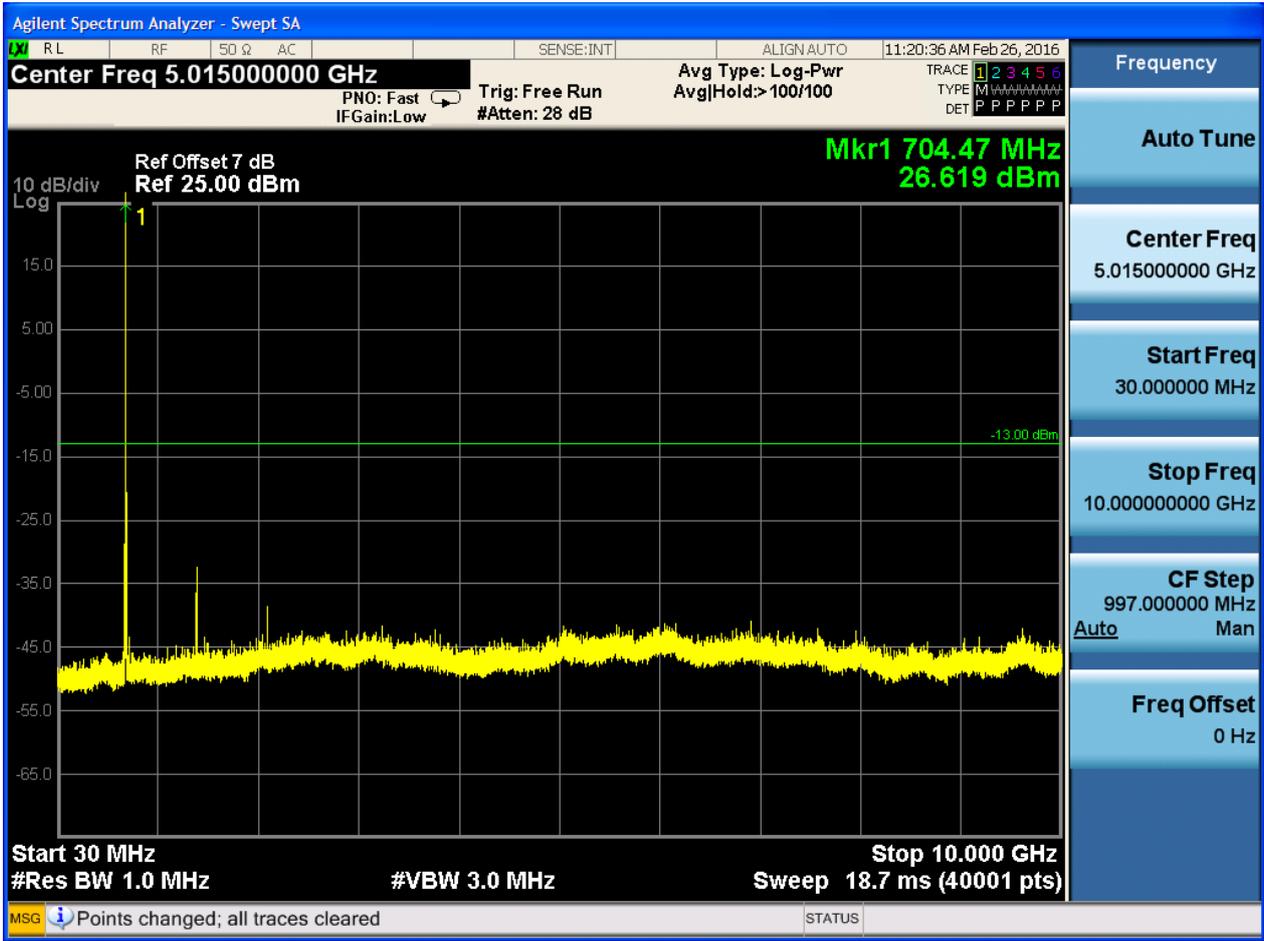
6.1.2.2.1 Test Bandwidth = 5

6.1.2.2.1.1 Test Channel = LCH

6.1.2.2.1.1.1 Test RB = RB1#0



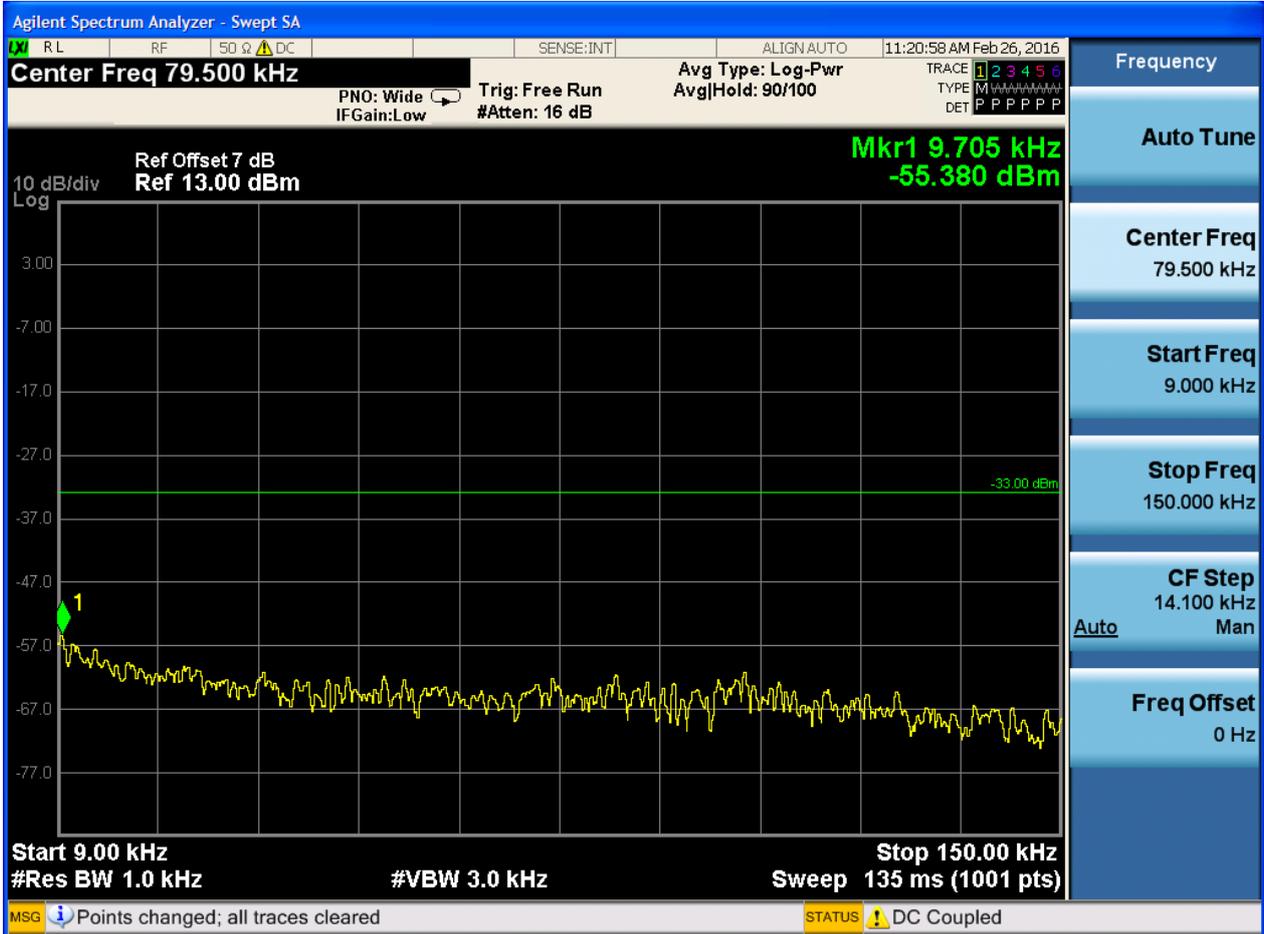


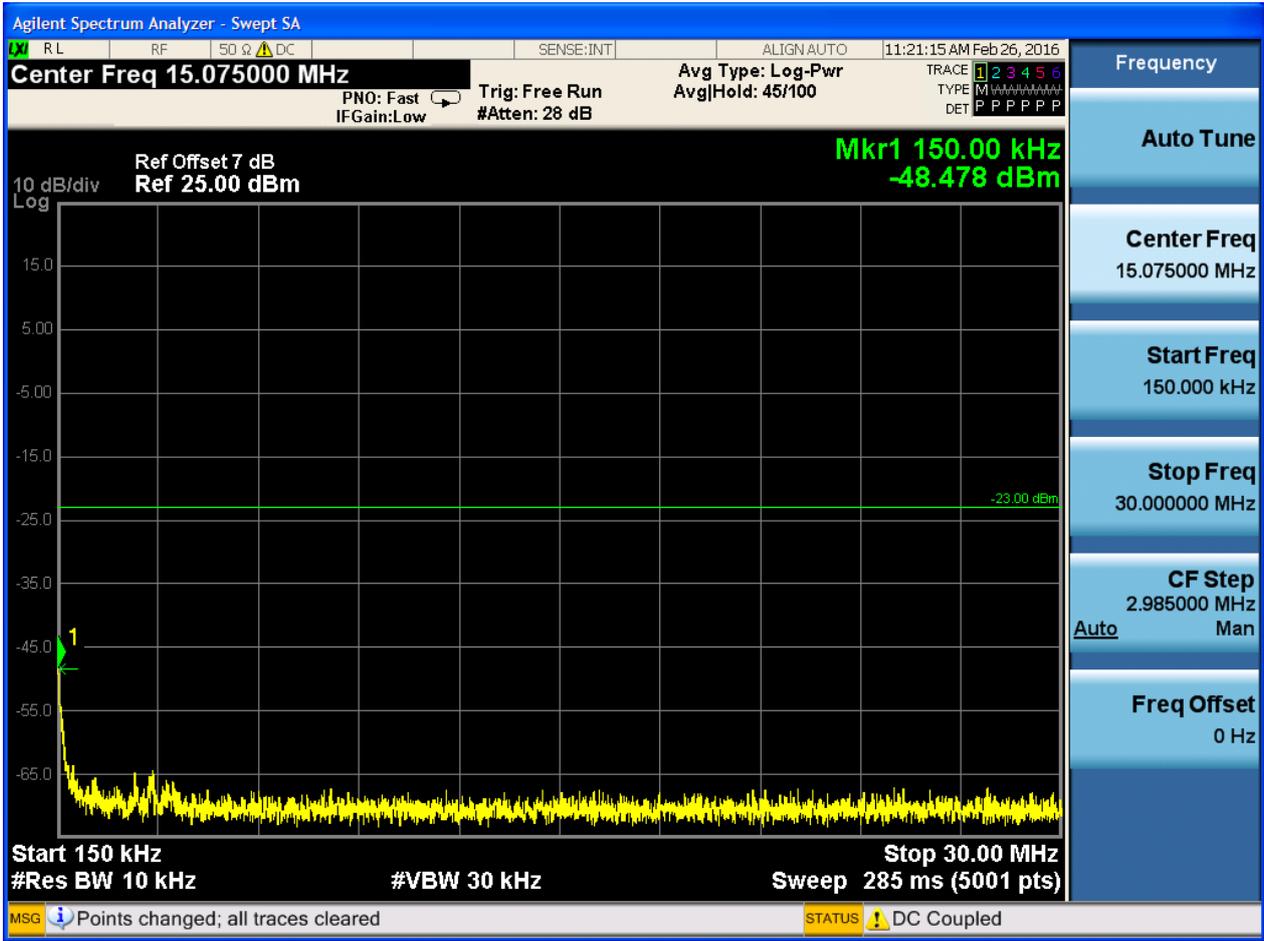


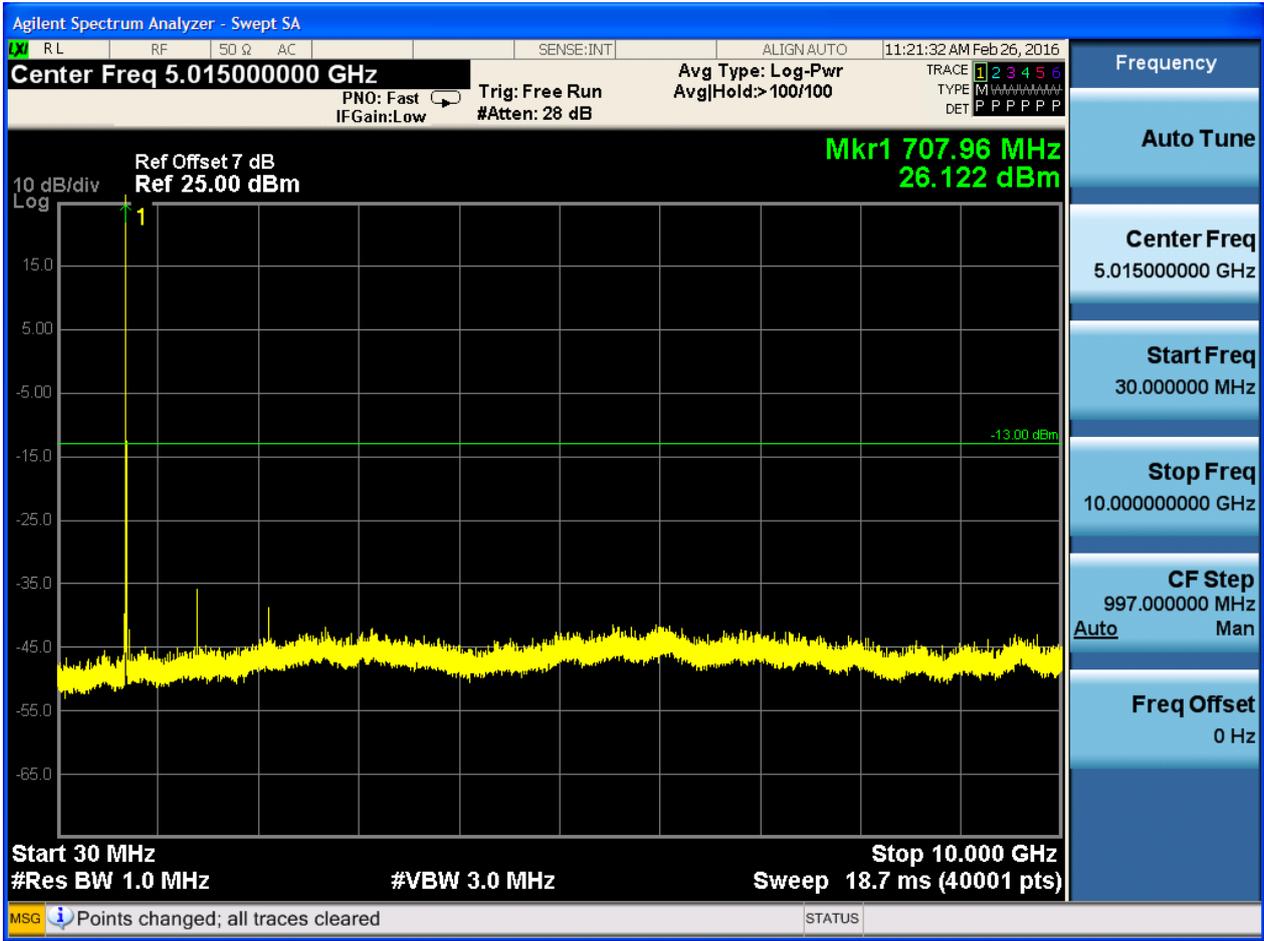


6.1.2.2.1.2 Test Channel = MCH

6.1.2.2.1.2.1 Test RB = RB1#0



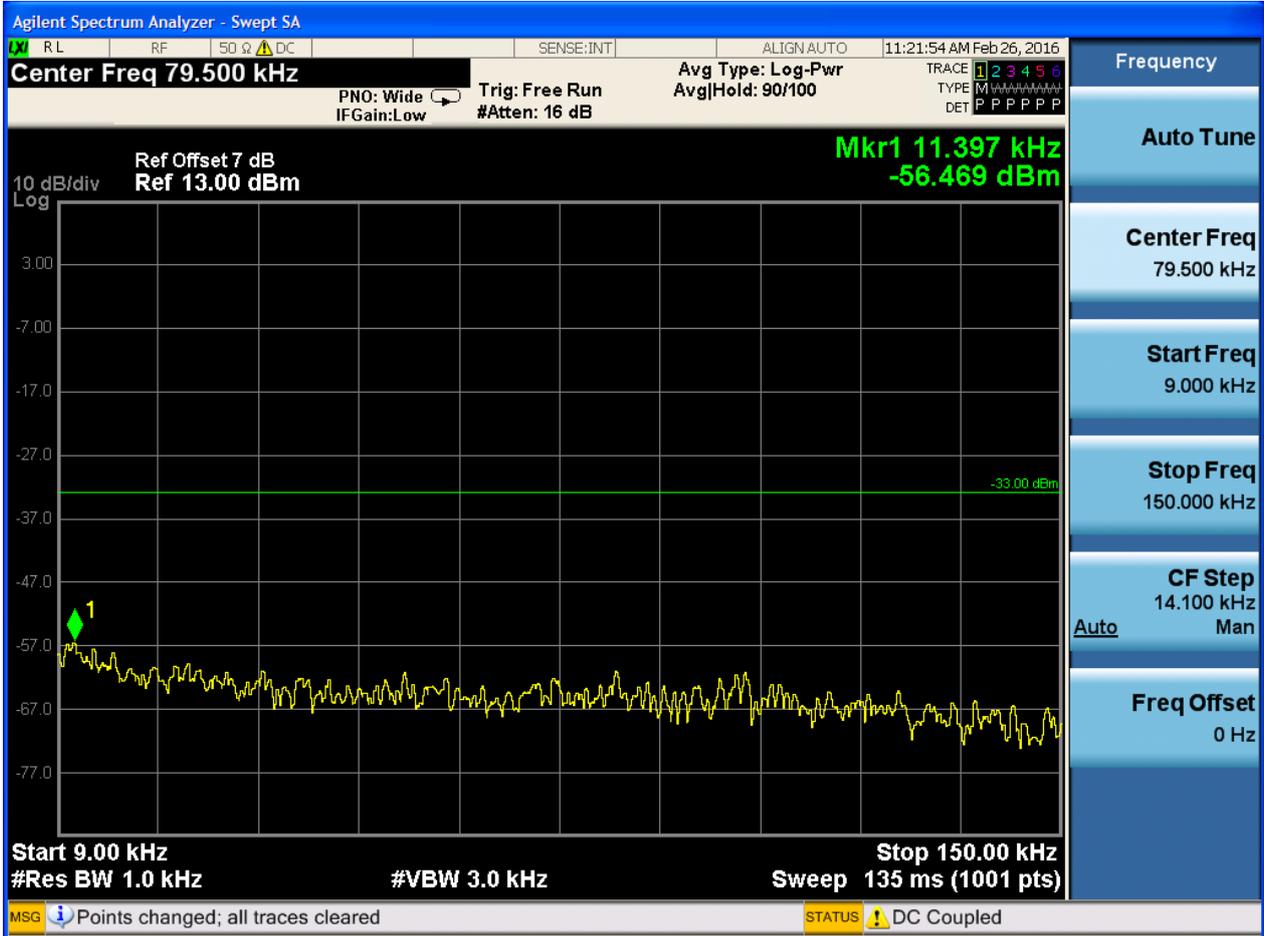


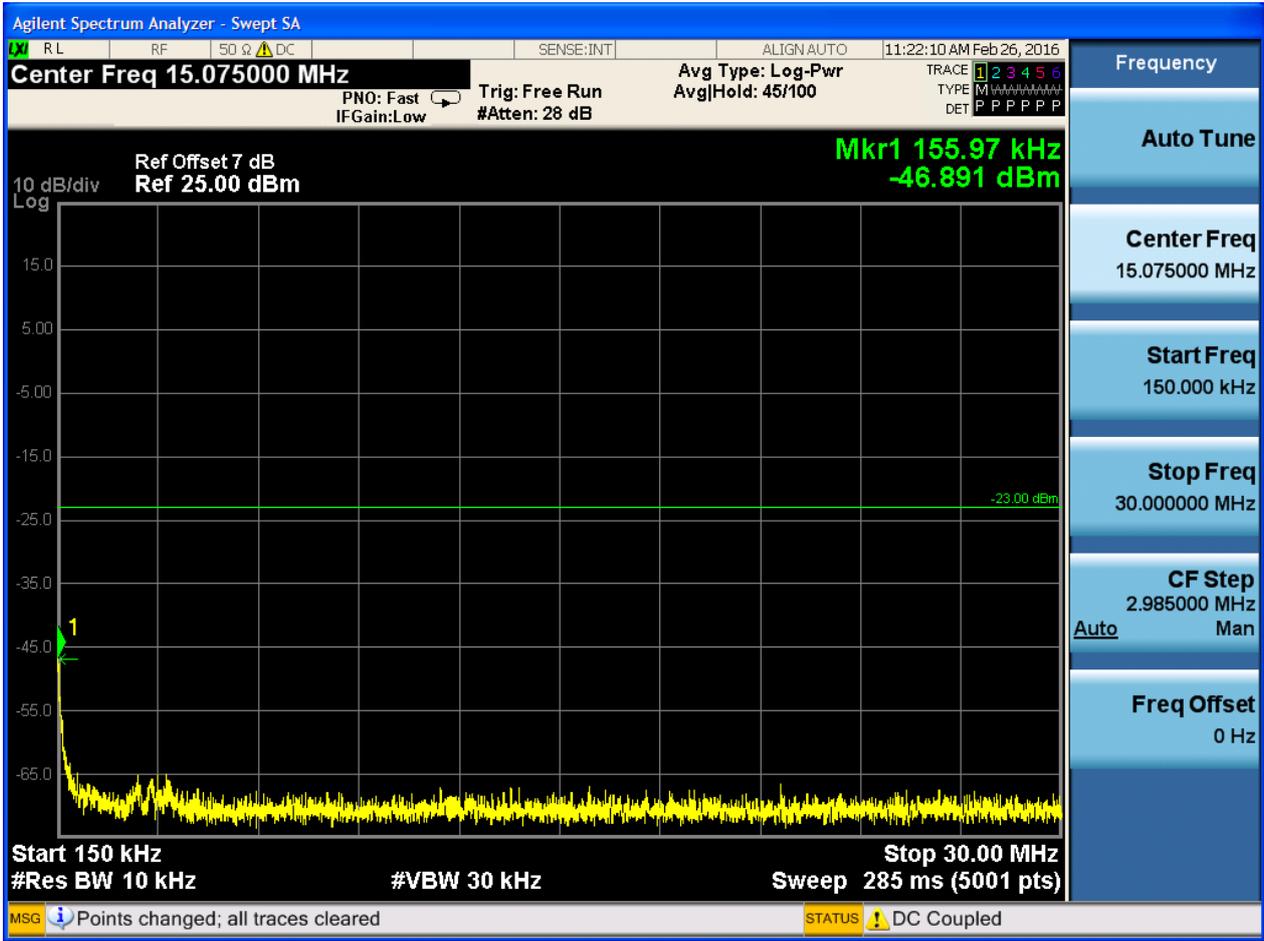


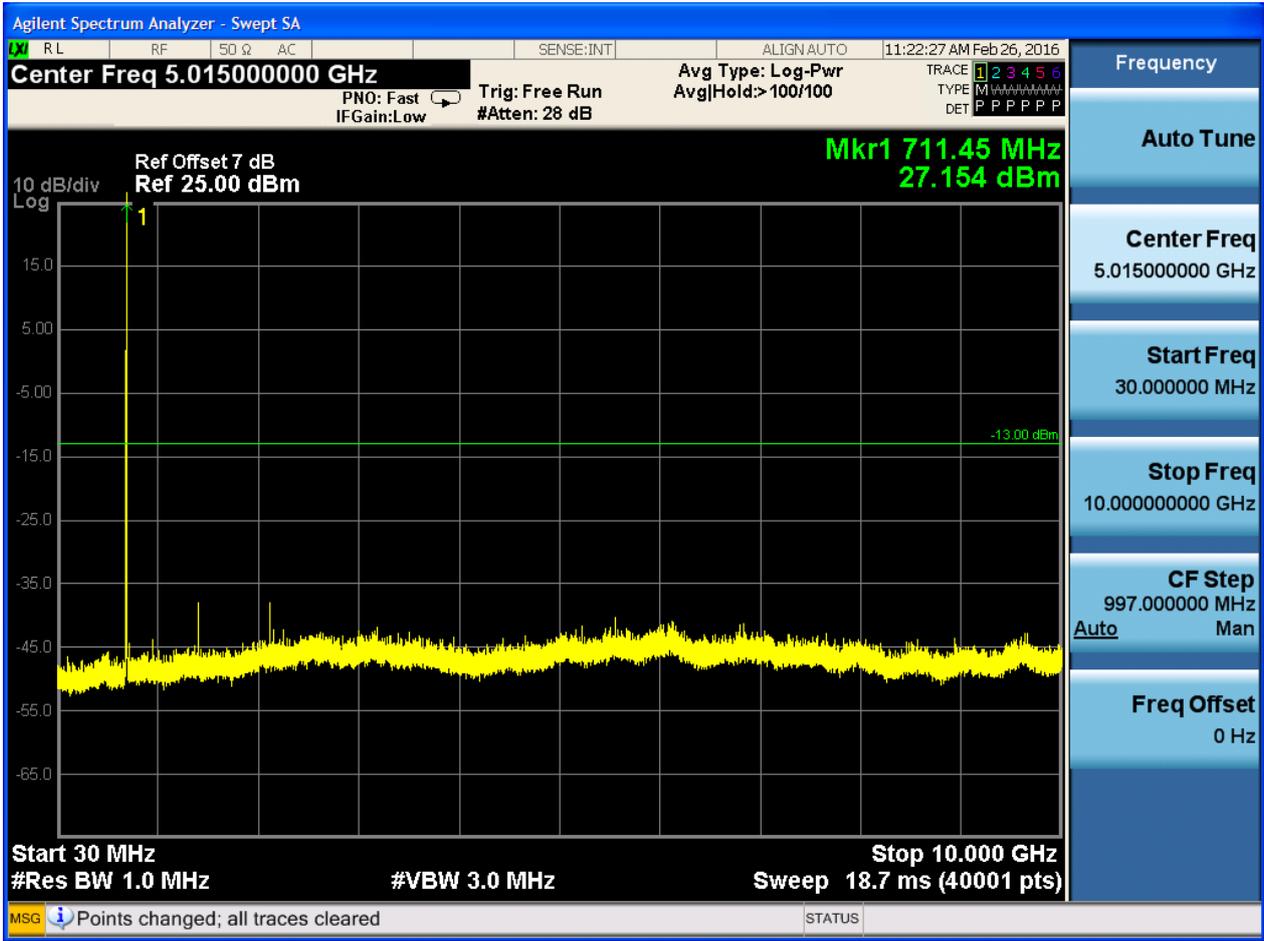


6.1.2.2.1.3 Test Channel = HCH

6.1.2.2.1.3.1 Test RB = RB1#0





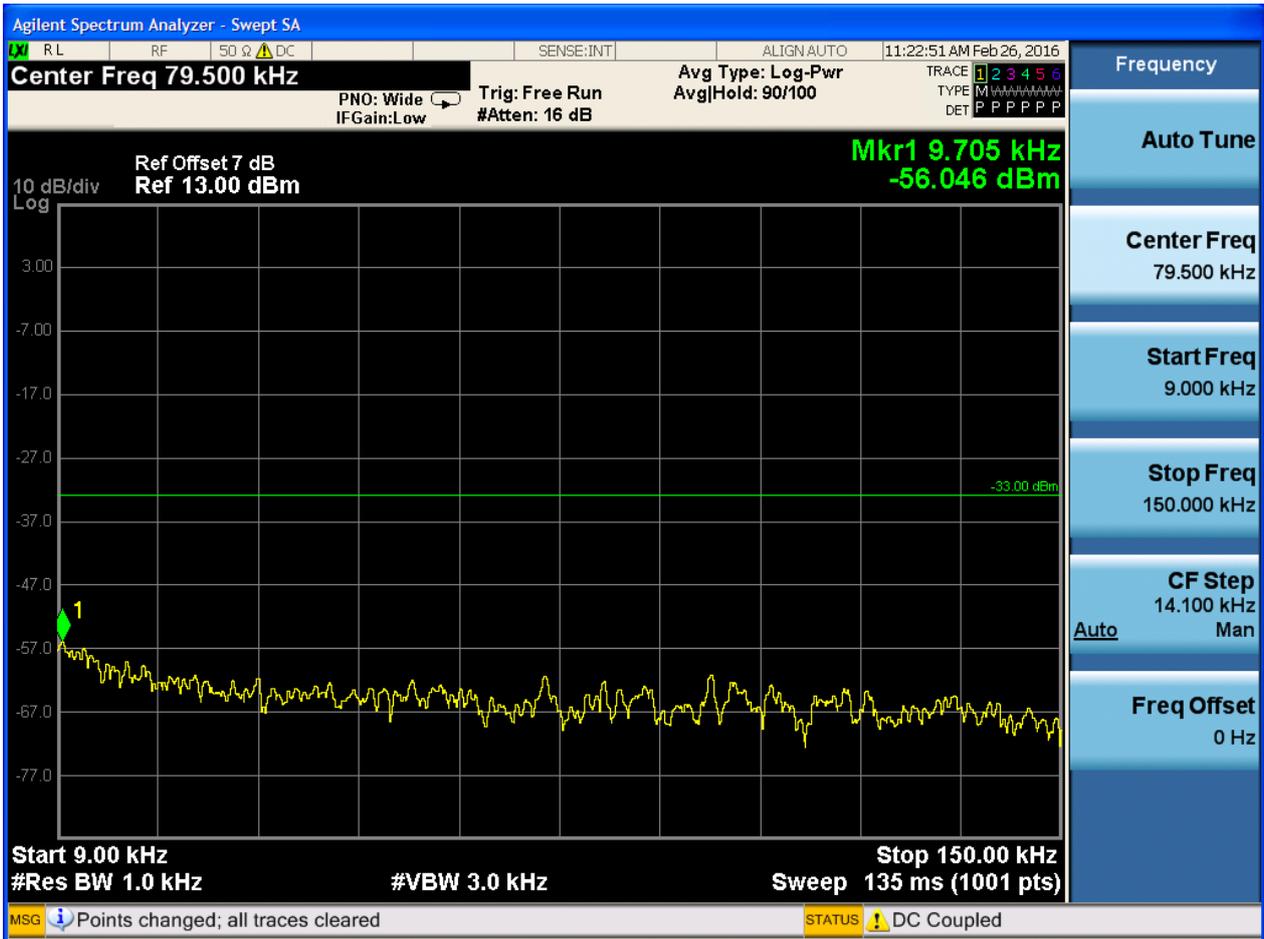


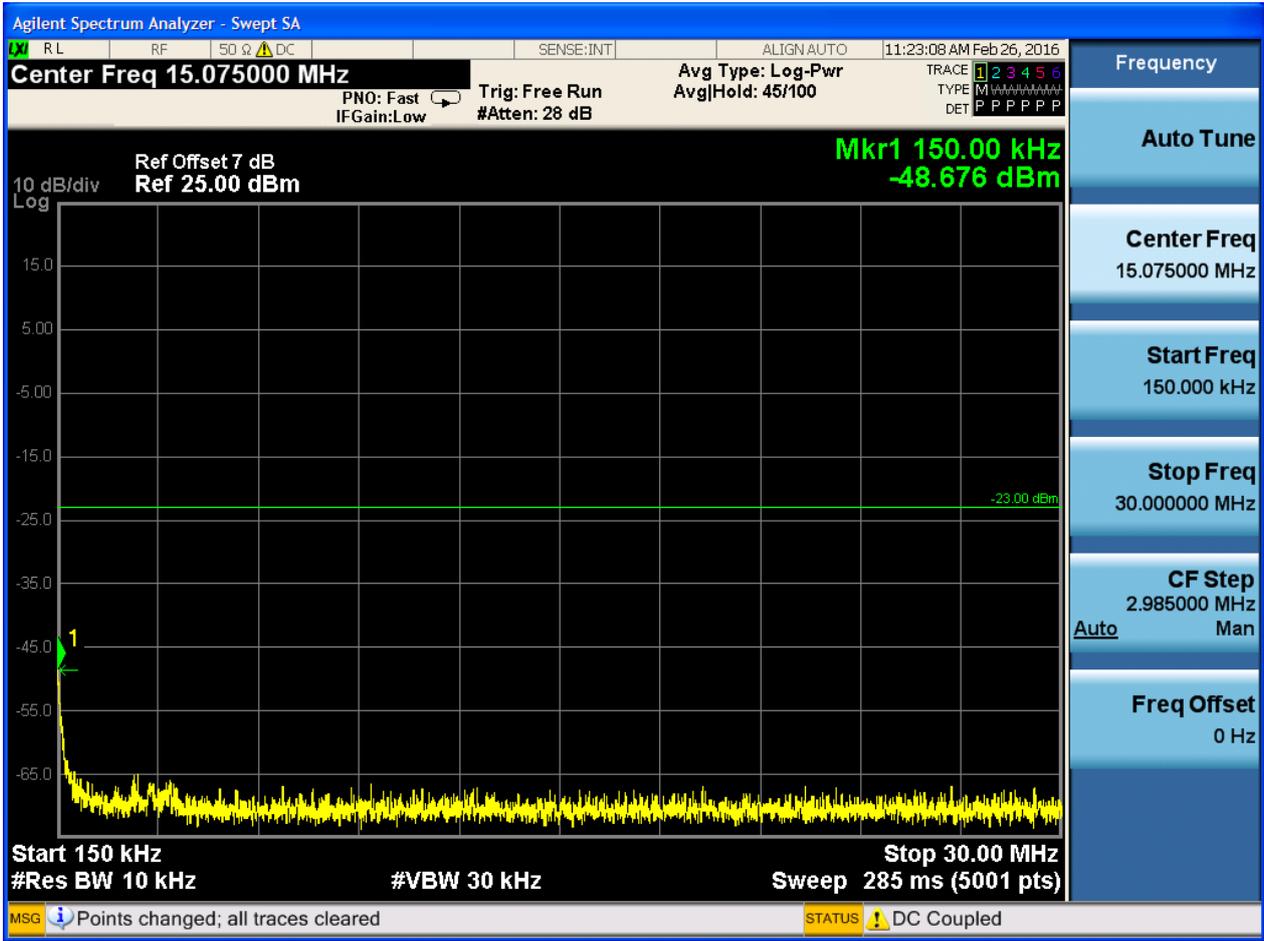


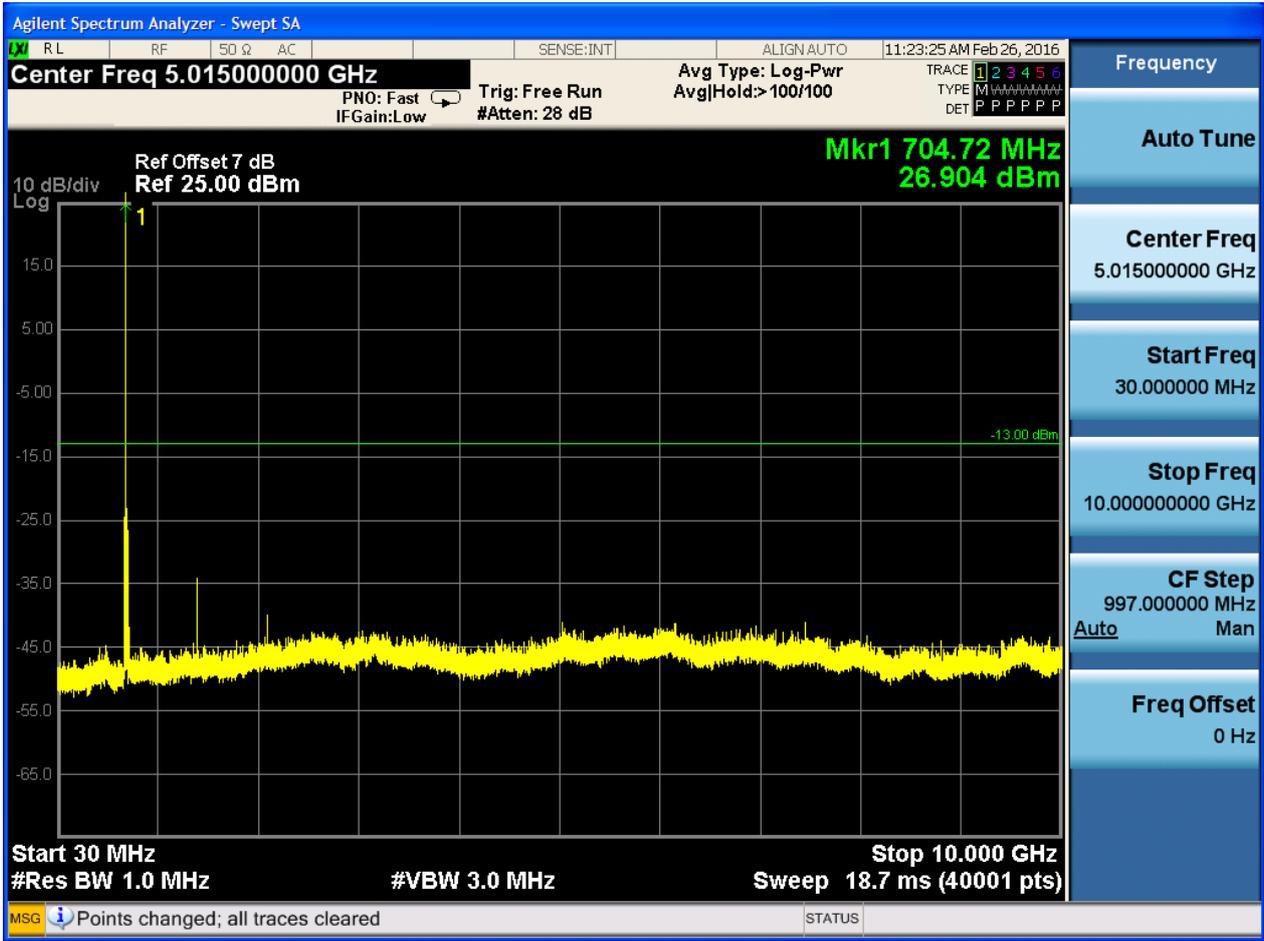
6.1.2.2.2 Test Bandwidth = 10

6.1.2.2.2.1 Test Channel = LCH

6.1.2.2.2.1.1 Test RB = RB1#0



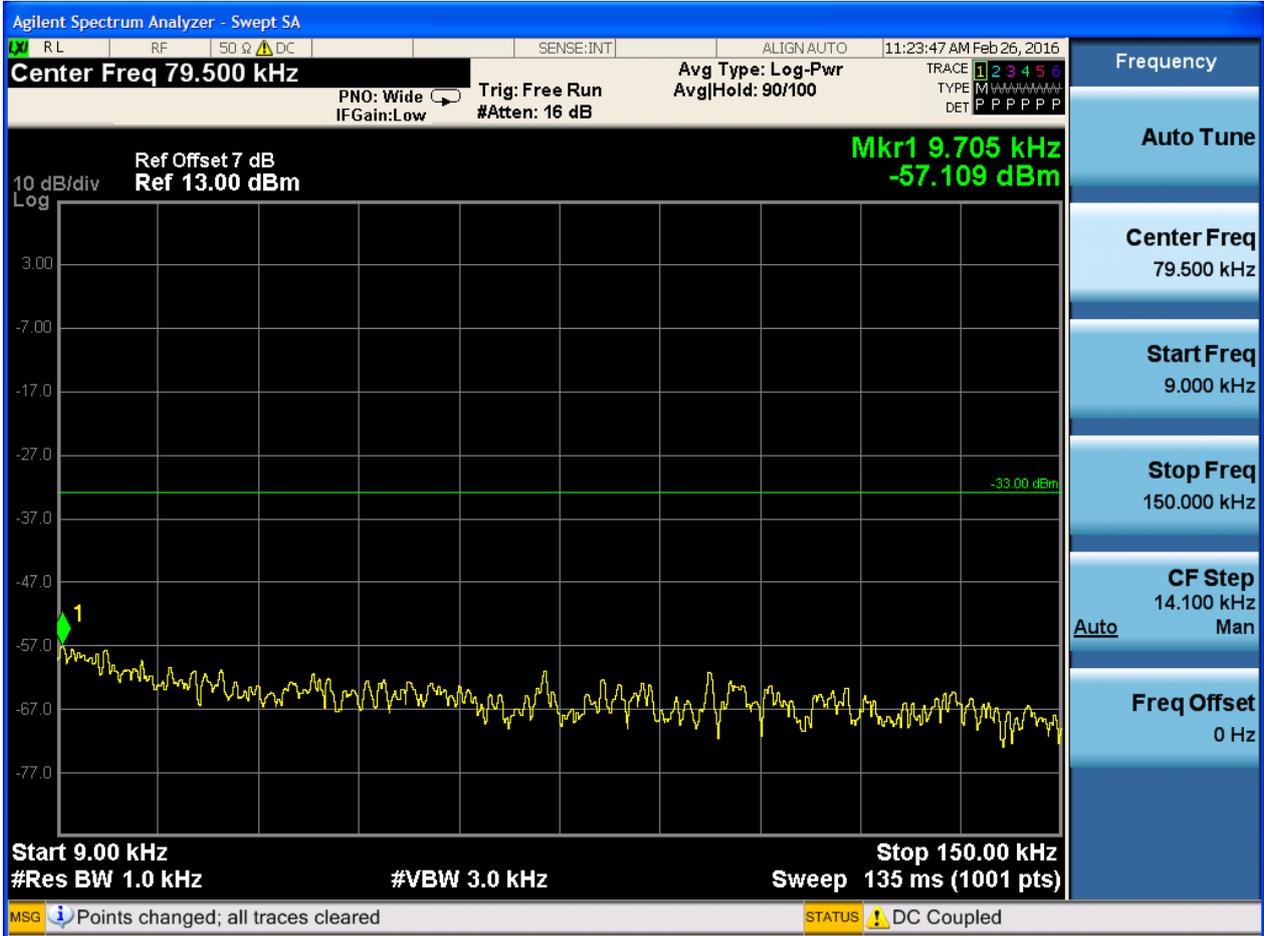


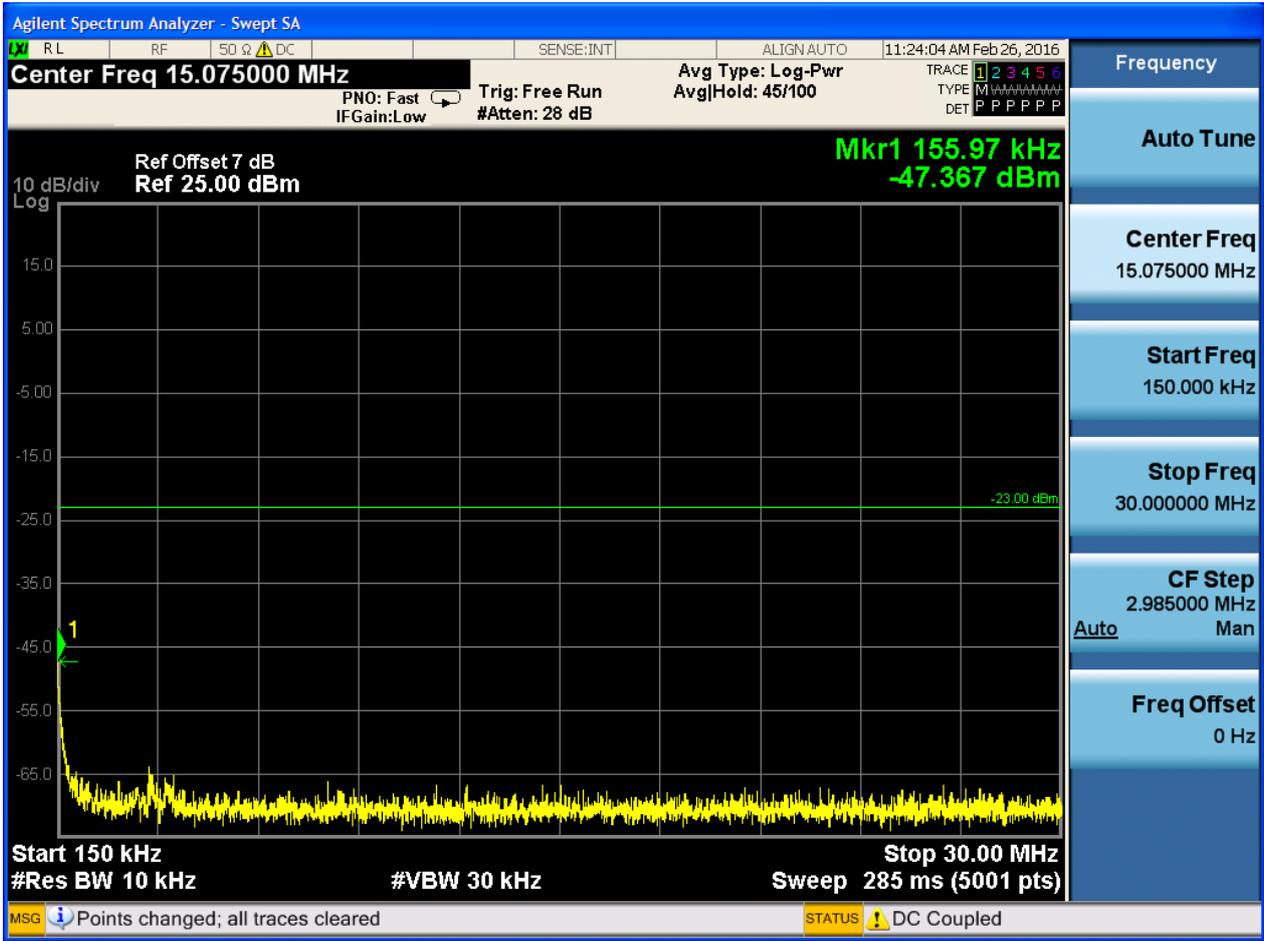


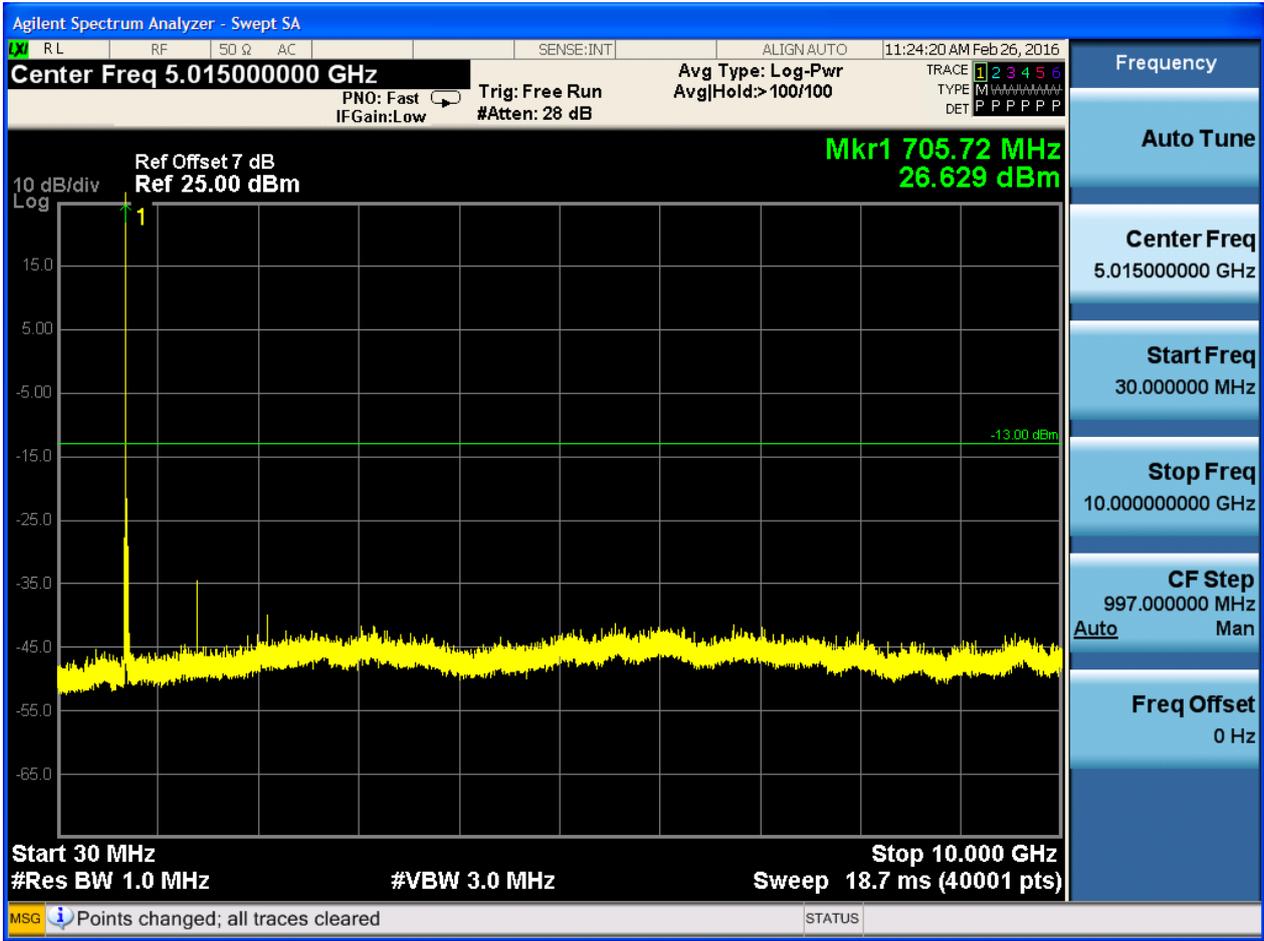


6.1.2.2.2 Test Channel = MCH

6.1.2.2.2.1 Test RB = RB1#0



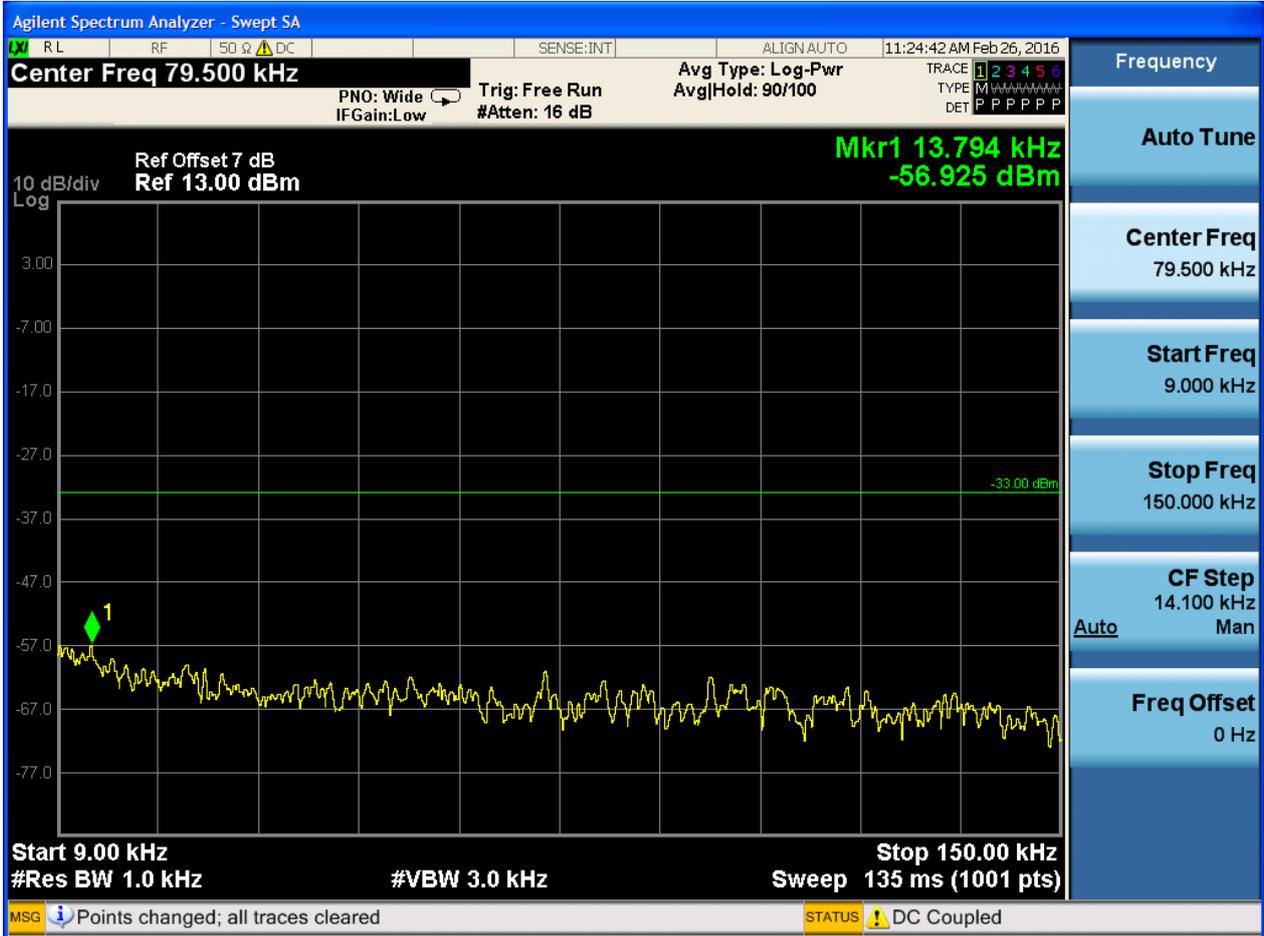


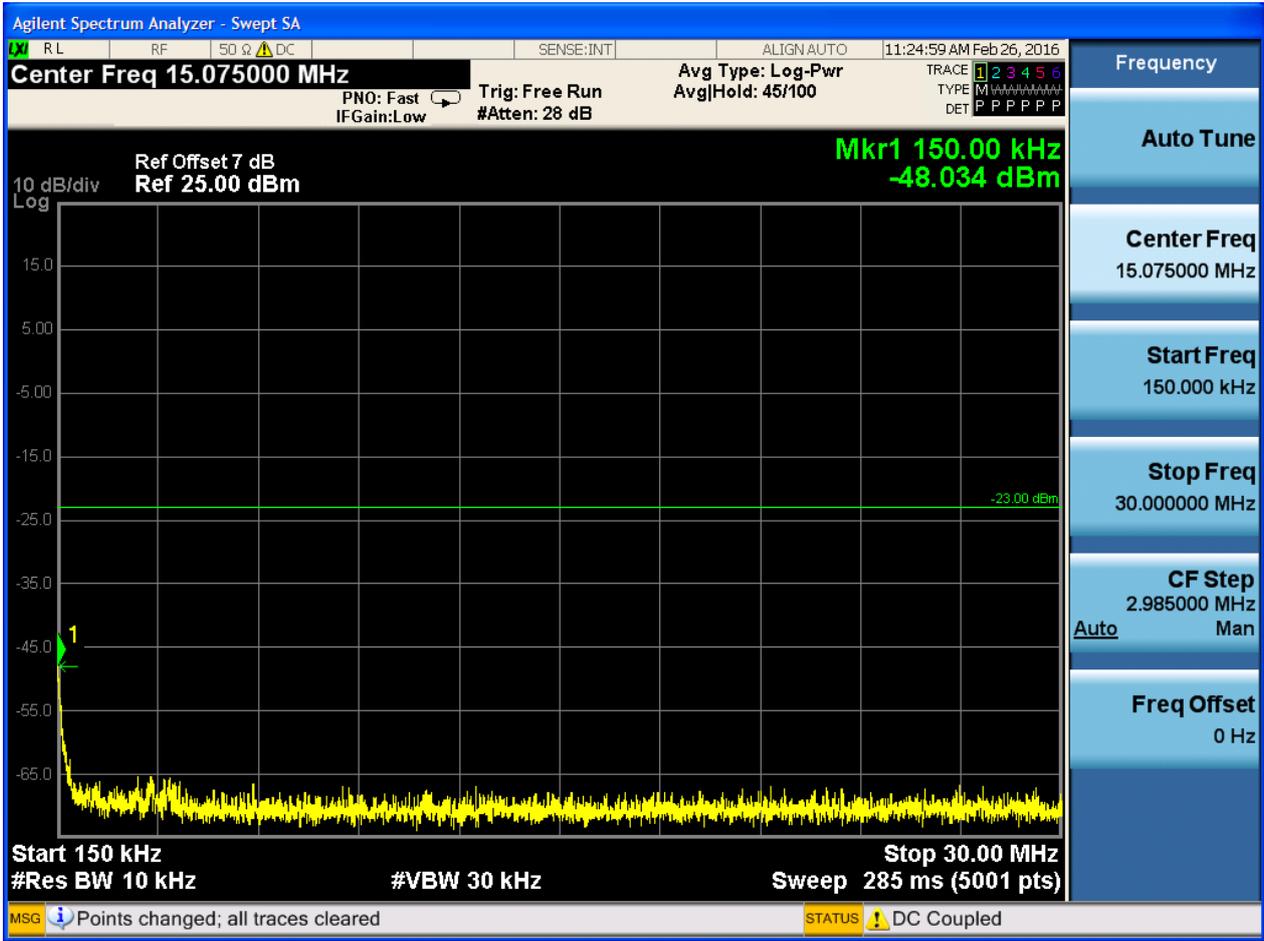




6.1.2.2.2.3 Test Channel = HCH

6.1.2.2.2.3.1 Test RB = RB1#0







## 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

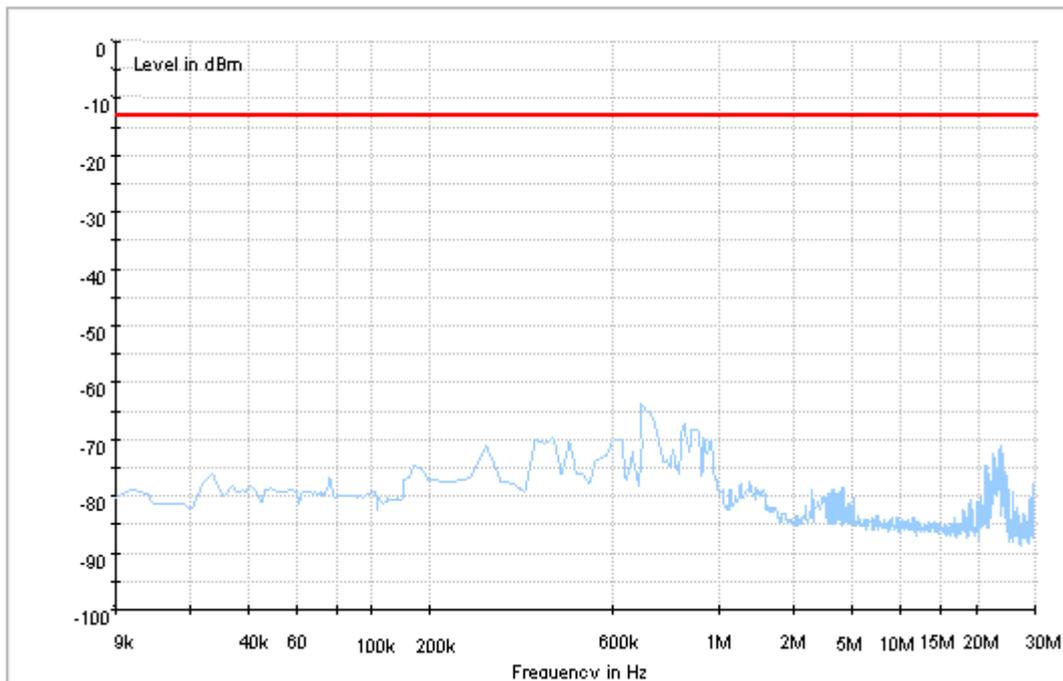
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

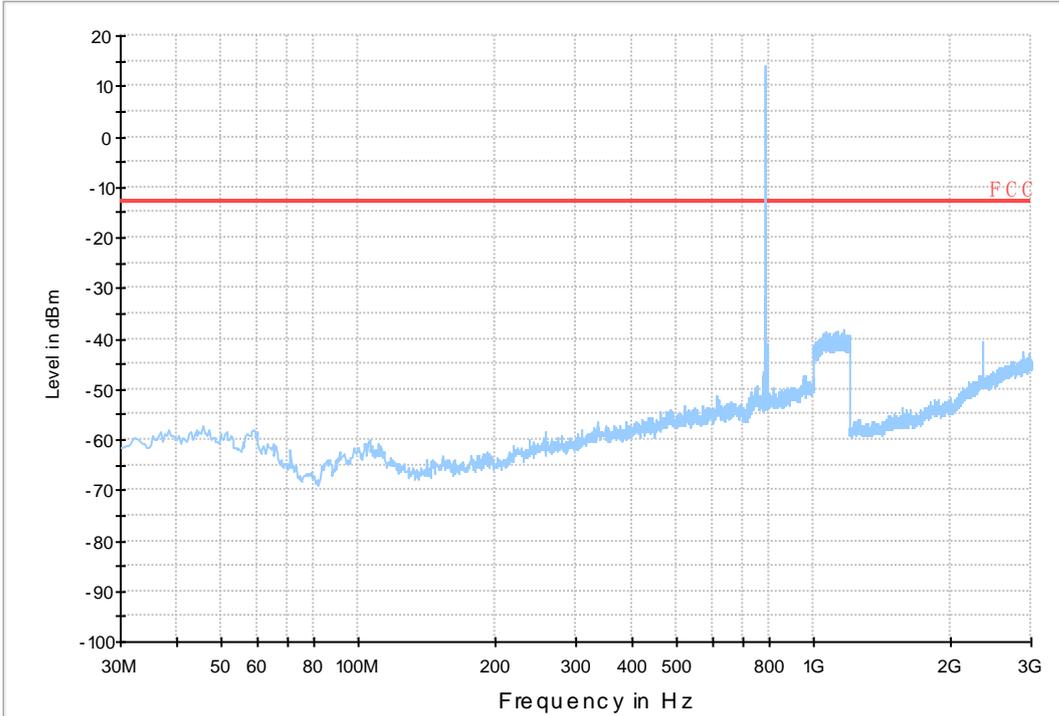
#### 7.1 For LTE

##### 7.1.1 Test Band = BAND13

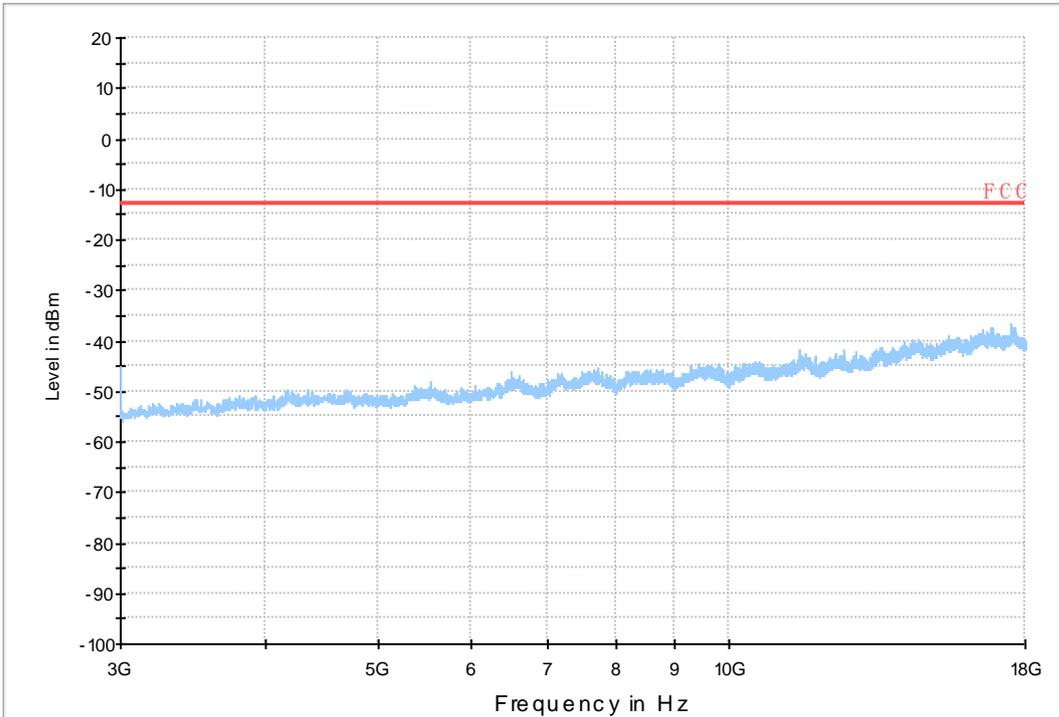
##### 7.1.1.1 Test Bandwidth = 5



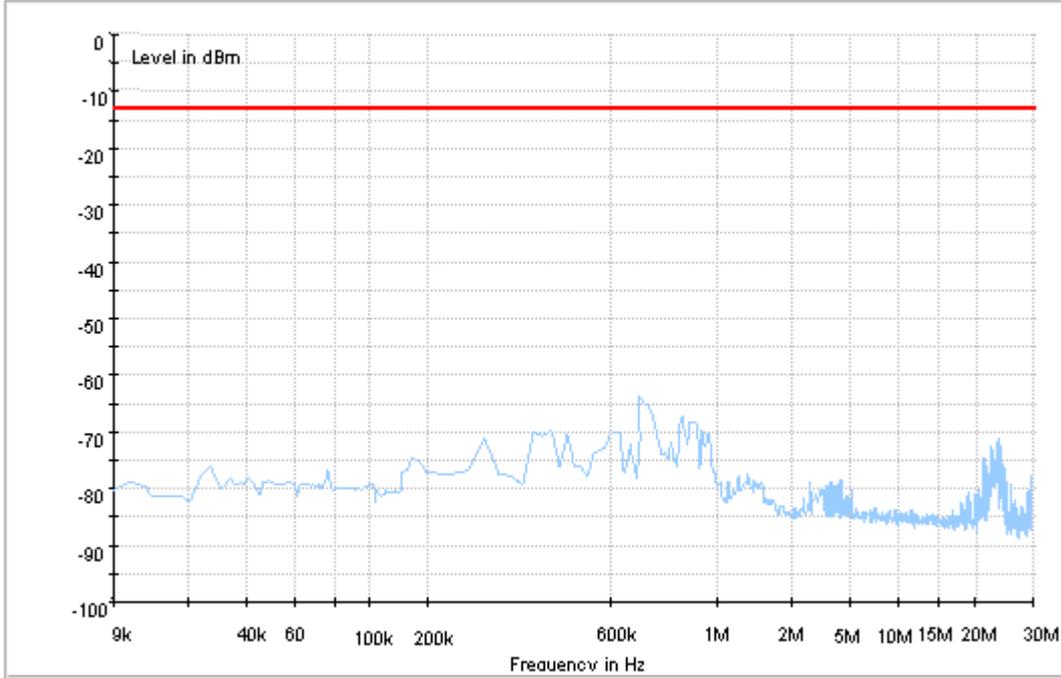
Copy of RSE-TX-DIRECTOR BELOW 1G\_L



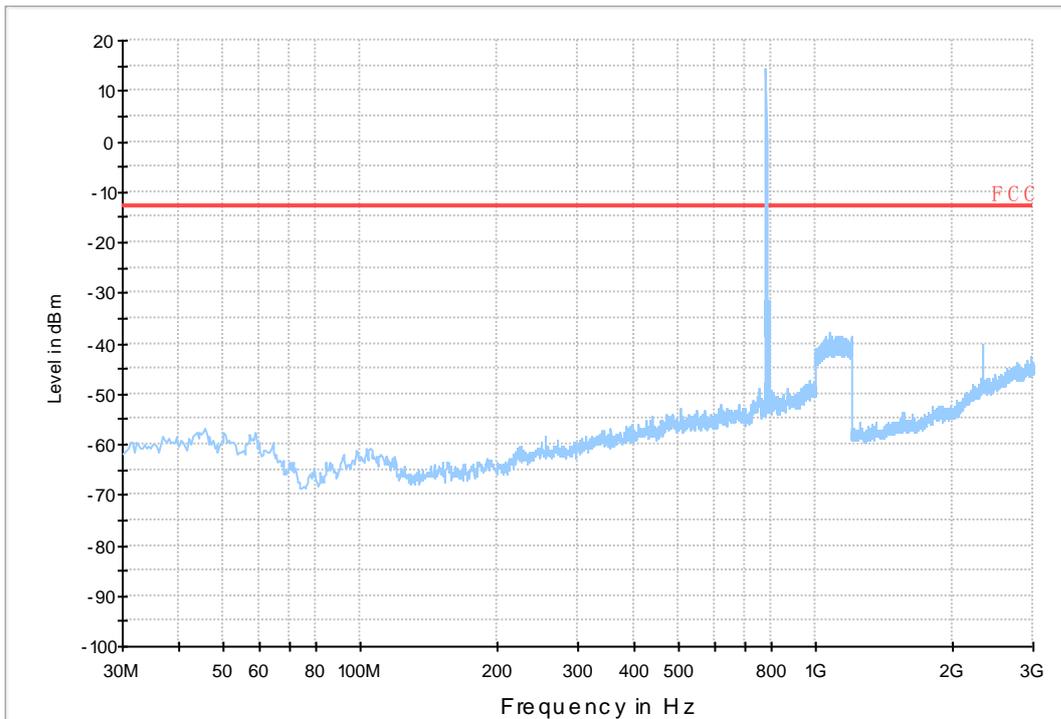
Copy of RSE-TX-DIRECTOR BELOW 1G\_H



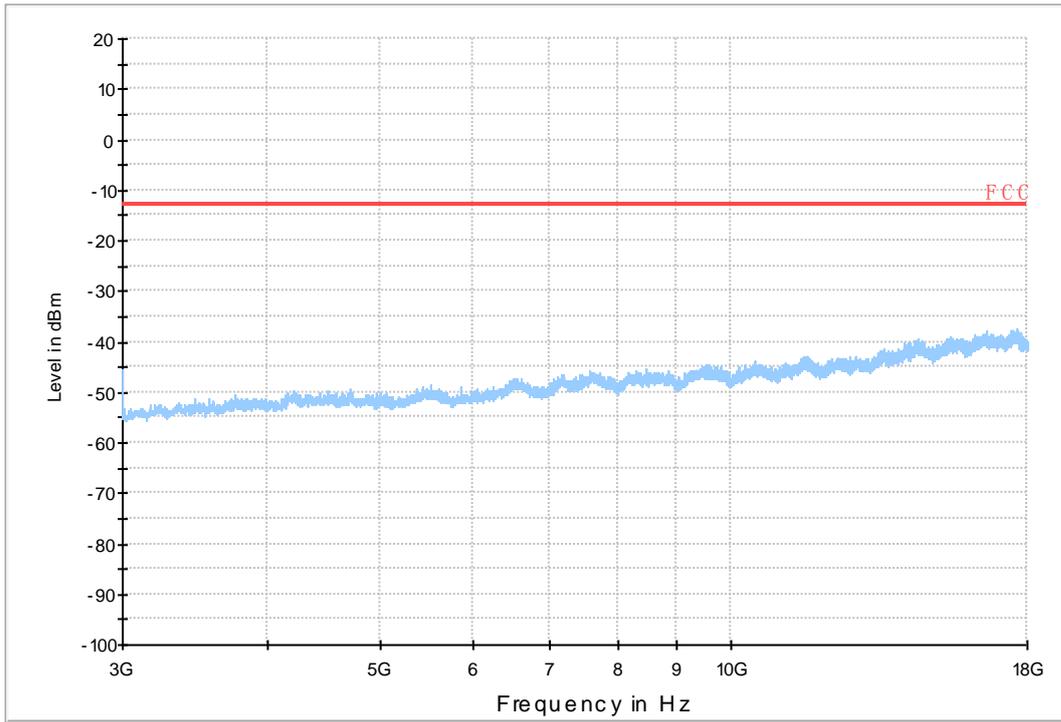
### 7.1.1.2 Test Bandwidth = 10



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

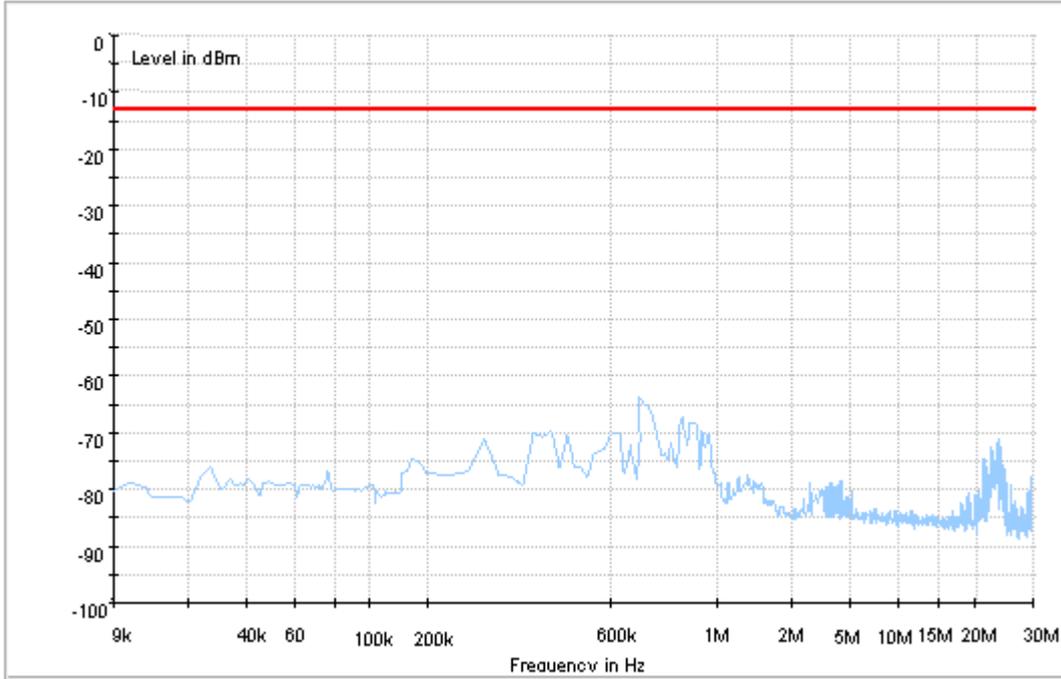


Copy of RSE-TX-DIRECTOR BELOW 1G\_H

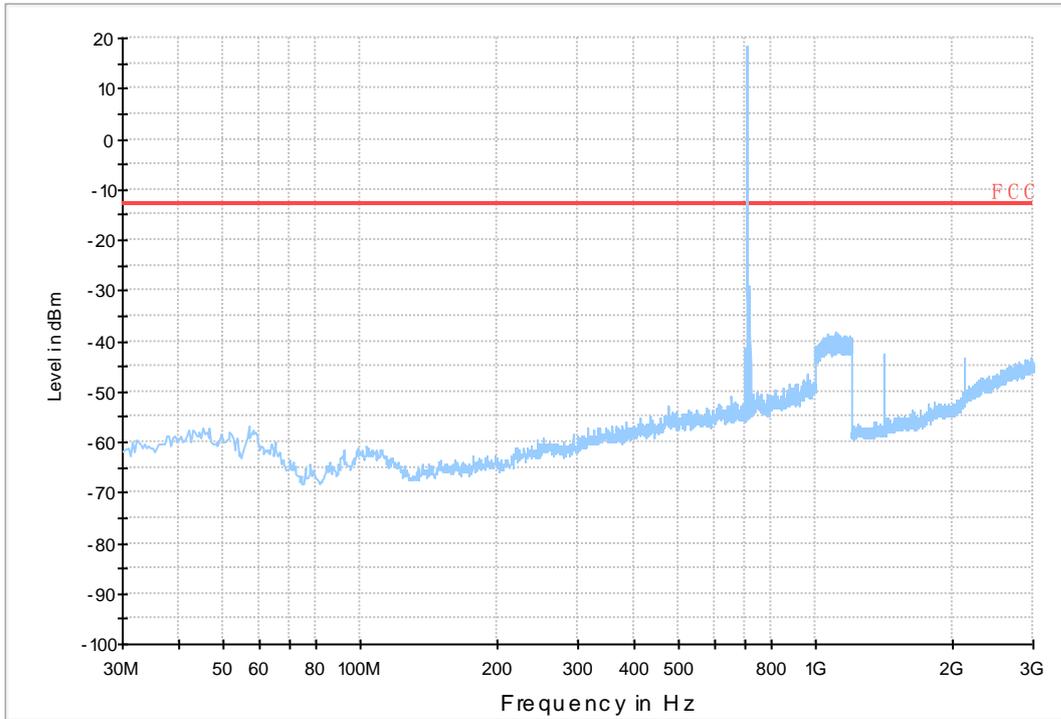


### 7.1.2 Test Band = BAND17

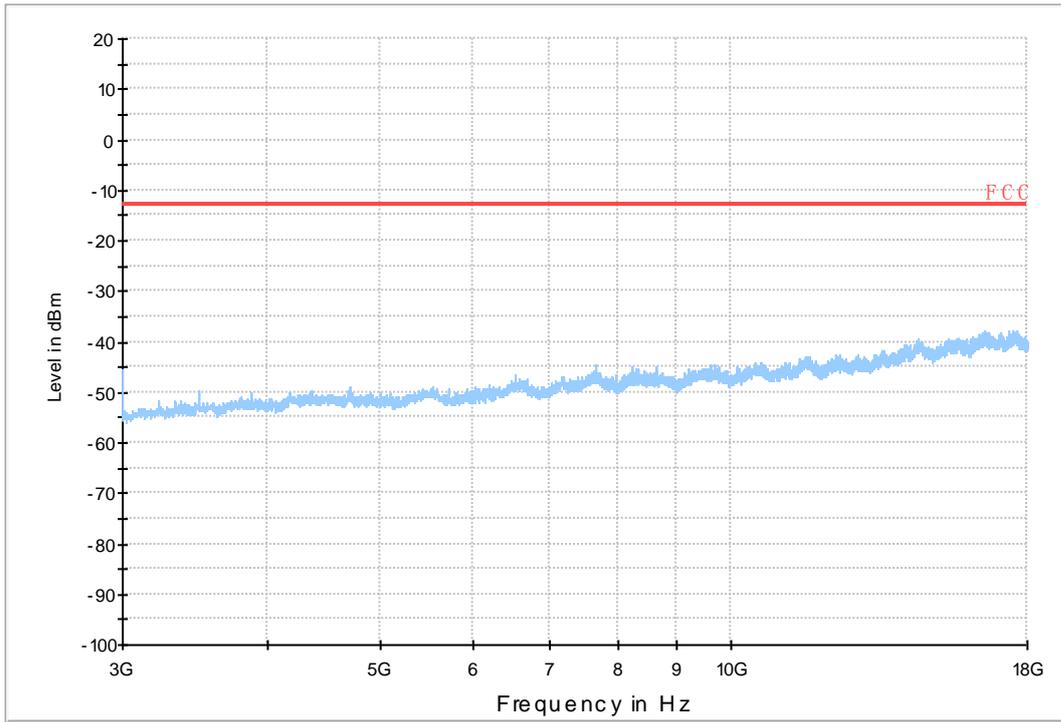
#### 7.1.2.1 Test Bandwidth = 5



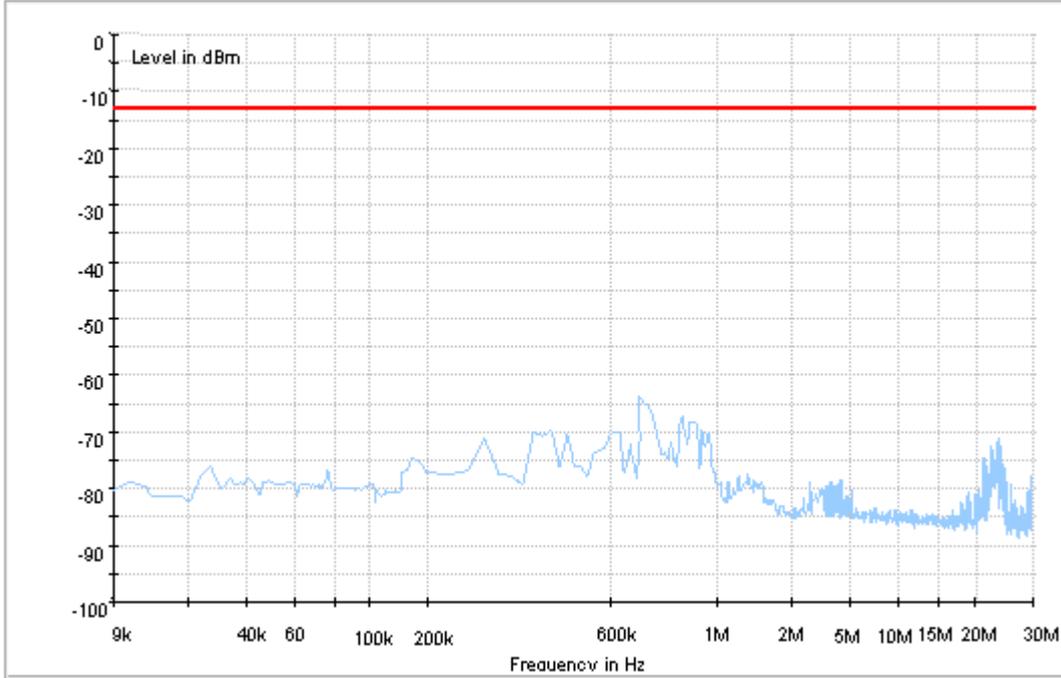
Copy of RSE-TX-DIRECTOR BELOW 1G\_L



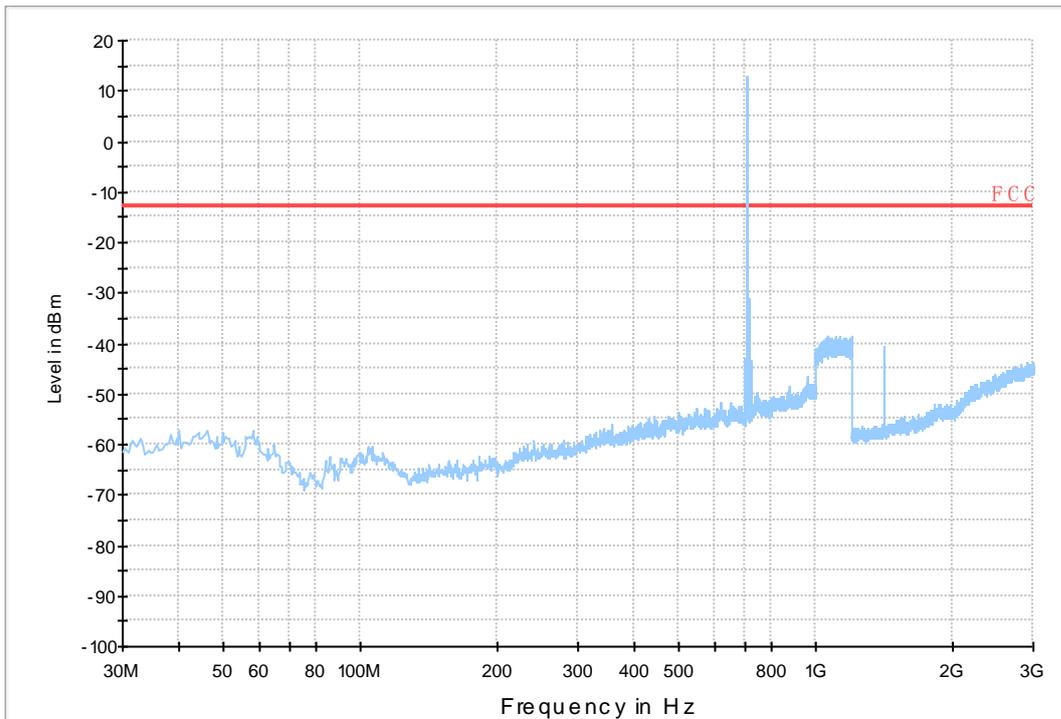
Copy of RSE-TX-DIRECTOR BELOW 1G\_H



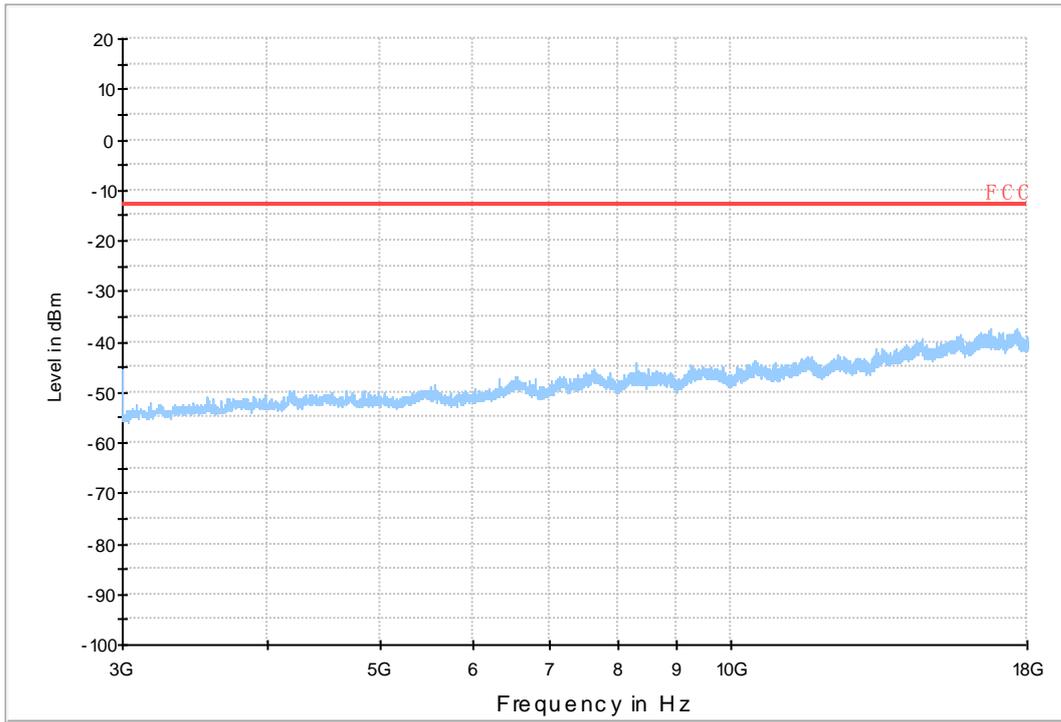
### 7.1.2.2 Test Bandwidth = 10



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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
BAND13	LTE/TM1	5	LCH	TN	VL	1.96	0.00251	PASS
					VN	-0.94	-0.00121	PASS
					VH	4.82	0.00618	PASS
			MCH	TN	VL	5.19	0.00664	PASS
					VN	-0.99	-0.00127	PASS
					VH	3.71	0.00474	PASS
		HCH	TN	VL	2.82	0.00359	PASS	
				VN	-0.56	-0.00071	PASS	
				VH	3.78	0.00482	PASS	
		10	LCH	TN	VL	-2.35	-0.00301	PASS
					VN	-9.41	-0.01203	PASS
					VH	-6.21	-0.00794	PASS
	MCH		TN	VL	-5.51	-0.00705	PASS	
				VN	0.30	0.00038	PASS	
				VH	-5.65	-0.00723	PASS	
	HCH	TN	VL	-5.62	-0.00719	PASS		
			VN	-4.76	-0.00609	PASS		
			VH	-9.90	-0.01266	PASS		
	LTE/TM2	5	LCH	TN	VL	3.93	0.00504	PASS
					VN	0.06	0.00008	PASS
					VH	3.09	0.00396	PASS
			MCH	TN	VL	4.25	0.00543	PASS
					VN	0.33	0.00042	PASS
					VH	-1.86	-0.00238	PASS
HCH		TN	VL	-1.77	-0.00226	PASS		
			VN	2.66	0.00339	PASS		
			VH	-2.20	-0.0028	PASS		
10		LCH	TN	VL	-0.16	-0.0002	PASS	
				VN	-0.87	-0.00111	PASS	
				VH	-1.10	-0.00141	PASS	
	MCH	TN	VL	2.27	0.0029	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
BAND17			HCH	TN	VN	1.82	0.00233	PASS	
					VH	1.29	0.00165	PASS	
					VL	2.63	0.00336	PASS	
					VN	-0.86	-0.0011	PASS	
					VH	-0.69	-0.00088	PASS	
	BAND17	LTE/TM1	5	LCH	TN	VL	-3.60	-0.0051	PASS
						VN	-2.88	-0.00408	PASS
						VH	-4.22	-0.00597	PASS
				MCH	TN	VL	-2.96	-0.00417	PASS
						VN	2.05	0.00289	PASS
						VH	-0.54	-0.00076	PASS
				HCH	TN	VL	-0.67	-0.00094	PASS
						VN	0.94	0.00132	PASS
						VH	1.46	0.00205	PASS
			10	LCH	TN	VL	-0.63	-0.00089	PASS
						VN	-2.46	-0.00347	PASS
						VH	-0.04	-0.00006	PASS
				MCH	TN	VL	2.42	0.00341	PASS
						VN	1.10	0.00155	PASS
						VH	2.00	0.00282	PASS
				HCH	TN	VL	0.74	0.00104	PASS
						VN	0.84	0.00118	PASS
						VH	-0.72	-0.00101	PASS
		LTE/TM2	5	LCH	TN	VL	0.21	0.0003	PASS
						VN	-1.04	-0.00147	PASS
						VH	0.51	0.00072	PASS
				MCH	TN	VL	1.27	0.00179	PASS
VN						-0.47	-0.00066	PASS	
VH						-2.09	-0.00294	PASS	
HCH				TN	VL	2.03	0.00285	PASS	
					VN	3.99	0.00559	PASS	
					VH	1.46	0.00205	PASS	
10	LCH		TN	VL	-0.33	-0.00047	PASS		
				VN	1.60	0.00226	PASS		
				VH	0.66	0.00093	PASS		
	MCH		TN	VL	2.55	0.00359	PASS		
				VN	2.57	0.00362	PASS		
				VH	2.09	0.00294	PASS		
	HCH		TN	VL	1.43	0.00201	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.62	0.00087	PASS
					VH	0.11	0.00015	PASS

**8.1.2 Frequency Error vs. Voltage:**

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND13	LTE/TM1	5	LCH	VN	-30	-0.39	-0.0005	PASS
					-20	4.76	0.00611	PASS
					-10	-0.57	-0.00073	PASS
					0	3.05	0.00391	PASS
					10	-3.88	-0.00498	PASS
					20	8.17	0.01048	PASS
					30	-0.30	-0.00038	PASS
					40	2.36	0.00303	PASS
			50	1.22	0.00157	PASS		
			MCH	VN	-30	-2.15	-0.00275	PASS
					-20	-3.55	-0.00454	PASS
					-10	5.02	0.00642	PASS
					0	-5.24	-0.0067	PASS
					10	3.23	0.00413	PASS
					20	-2.96	-0.00379	PASS
					30	3.16	0.00404	PASS
		40			-2.90	-0.00371	PASS	
		HCH	VN	-30	5.08	0.00648	PASS	
				-20	0.04	0.00005	PASS	
				-10	3.10	0.00395	PASS	
				0	1.37	0.00175	PASS	
				10	1.39	0.00177	PASS	
				20	1.89	0.00241	PASS	
				30	-0.72	-0.00092	PASS	
				40	1.26	0.00161	PASS	
		10	LCH	VN	-30	-4.13	-0.00528	PASS
					-20	-5.55	-0.0071	PASS
					-10	-6.87	-0.00879	PASS
0	-2.46				-0.00315	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-7.07	-0.00904	PASS
					20	-5.85	-0.00748	PASS
					30	-3.10	-0.00396	PASS
					40	-7.14	-0.00913	PASS
					50	-0.83	-0.00106	PASS
			MCH	VN	-30	-6.65	-0.0085	PASS
					-20	-9.73	-0.01244	PASS
					-10	-9.78	-0.01251	PASS
					0	-8.55	-0.01093	PASS
					10	-12.12	-0.0155	PASS
					20	-6.90	-0.00882	PASS
					30	-10.46	-0.01338	PASS
					40	-11.89	-0.0152	PASS
			HCH	VN	50	-7.84	-0.01003	PASS
					-30	-7.51	-0.0096	PASS
					-20	-11.01	-0.01408	PASS
					-10	-8.05	-0.01029	PASS
					0	-14.23	-0.0182	PASS
	10	-9.33			-0.01193	PASS		
	20	-4.94			-0.00632	PASS		
	LTE/TM2	5	LCH	VN	30	-12.09	-0.01546	PASS
					40	-11.59	-0.01482	PASS
					50	-12.76	-0.01632	PASS
					-30	4.22	0.00541	PASS
					-20	0.24	0.00031	PASS
					-10	3.12	0.004	PASS
					0	6.37	0.00817	PASS
					10	4.58	0.00588	PASS
			MCH	VN	20	-1.49	-0.00191	PASS
					30	3.48	0.00446	PASS
					40	-1.54	-0.00198	PASS
					50	2.55	0.00327	PASS
					-30	6.92	0.00885	PASS
-20					-1.33	-0.0017	PASS	
-10					0.09	0.00012	PASS	
0	-2.75	-0.00352	PASS					
10	4.12	0.00527	PASS					
20	-1.76	-0.00225	PASS					
30	4.84	0.00619	PASS					



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	0.20	0.00026	PASS
					50	7.38	0.00944	PASS
			HCH	VN	-30	4.33	0.00552	PASS
					-20	0.53	0.00068	PASS
					-10	-0.79	-0.00101	PASS
					0	0.23	0.00029	PASS
					10	-3.06	-0.0039	PASS
					20	-0.43	-0.00055	PASS
					30	-6.45	-0.00822	PASS
					40	-0.44	-0.00056	PASS
			50	-7.11	-0.00906	PASS		
			LCH	VN	-30	2.30	0.00294	PASS
		-20			-0.96	-0.00123	PASS	
		-10			0.39	0.0005	PASS	
		0			2.20	0.00281	PASS	
		10			1.95	0.00249	PASS	
		20			2.12	0.00271	PASS	
		30			-1.52	-0.00194	PASS	
		40			3.28	0.00419	PASS	
		50			2.76	0.00353	PASS	
		MCH			VN	-30	2.25	0.00288
			-20	-1.00		-0.00128	PASS	
			-10	3.88		0.00496	PASS	
			0	-0.84		-0.00107	PASS	
			10	2.99		0.00382	PASS	
			20	4.25		0.00543	PASS	
			30	0.26		0.00033	PASS	
			40	-0.27		-0.00035	PASS	
		50	0.11	0.00014	PASS			
		HCH	VN	-30	0.63	0.00081	PASS	
				-20	0.40	0.00051	PASS	
				-10	3.66	0.00468	PASS	
0	-1.80			-0.0023	PASS			
10	2.62			0.00335	PASS			
20	2.29			0.00293	PASS			
30	0.92			0.00118	PASS			
40	1.82			0.00233	PASS			
50	-2.02	-0.00258	PASS					
BAND17	LTE/TM1	5	LCH	VN	-30	-2.49	-0.00352	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-20	-0.54	-0.00076	PASS	
					-10	4.25	0.00602	PASS	
					0	1.97	0.00279	PASS	
					10	1.56	0.00221	PASS	
					20	2.88	0.00408	PASS	
					30	1.53	0.00217	PASS	
					40	0.93	0.00132	PASS	
					50	0.27	0.00038	PASS	
			MCH	VN	-30	-0.34	-0.00048	PASS	
					-20	1.00	0.00141	PASS	
					-10	0.70	0.00099	PASS	
					0	1.79	0.00252	PASS	
					10	1.23	0.00173	PASS	
					20	2.53	0.00356	PASS	
					30	3.25	0.00458	PASS	
					40	1.27	0.00179	PASS	
			HCH	VN	-30	-2.16	-0.00303	PASS	
					-20	1.77	0.00248	PASS	
					-10	-0.50	-0.0007	PASS	
					0	-0.44	-0.00062	PASS	
					10	-0.34	-0.00048	PASS	
					20	-2.20	-0.00308	PASS	
					30	0.60	0.00084	PASS	
					40	-0.11	-0.00015	PASS	
			10	LCH	VN	-30	-2.19	-0.00309	PASS
						-20	0.33	0.00047	PASS
						-10	-0.40	-0.00056	PASS
						0	-0.97	-0.00137	PASS
		10				-1.29	-0.00182	PASS	
		20				-0.57	-0.0008	PASS	
		30				-1.79	-0.00252	PASS	
		40				-0.94	-0.00133	PASS	
		50		-0.27	-0.00038	PASS			
		MCH		VN	-30	0.96	0.00135	PASS	
					-20	-0.17	-0.00024	PASS	
					-10	0.26	0.00037	PASS	
			0		0.20	0.00028	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	1.02	0.00144	PASS
					20	-0.50	-0.0007	PASS
					30	-0.26	-0.00037	PASS
					40	2.20	0.0031	PASS
					50	0.27	0.00038	PASS
			HCH	VN	-30	1.24	0.00174	PASS
					-20	-0.69	-0.00097	PASS
					-10	-0.86	-0.00121	PASS
					0	0.92	0.00129	PASS
					10	0.47	0.00066	PASS
					20	-0.84	-0.00118	PASS
					30	0.00	0	PASS
					40	1.67	0.00235	PASS
					50	0.24	0.00034	PASS
					LCH	VN	-30	1.30
	-20	-1.36	-0.00192	PASS				
	-10	-0.34	-0.00048	PASS				
	0	-1.07	-0.00151	PASS				
	10	1.12	0.00159	PASS				
	20	-3.18	-0.0045	PASS				
	30	-3.45	-0.00488	PASS				
	40	-3.53	-0.005	PASS				
	MCH	VN	-30	2.47	0.00348	PASS		
			-20	-0.94	-0.00132	PASS		
			-10	1.65	0.00232	PASS		
			0	3.81	0.00537	PASS		
			10	0.50	0.0007	PASS		
			20	0.93	0.00131	PASS		
			30	0.33	0.00046	PASS		
			40	1.32	0.00186	PASS		
	HCH	VN	-30	-0.39	-0.00055	PASS		
			-20	1.32	0.00185	PASS		
			-10	1.34	0.00188	PASS		
0			-1.49	-0.00209	PASS			
10			1.14	0.0016	PASS			
20			-2.49	-0.00349	PASS			
30			-2.25	-0.00315	PASS			
LTE/TM2	5							



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	1.37	0.00192	PASS
					50	-2.68	-0.00376	PASS
		10	LCH	VN	-30	1.97	0.00278	PASS
					-20	2.00	0.00282	PASS
					-10	1.75	0.00247	PASS
					0	-0.19	-0.00027	PASS
					10	2.89	0.00408	PASS
					20	2.30	0.00324	PASS
					30	1.50	0.00212	PASS
					40	3.28	0.00463	PASS
					50	2.15	0.00303	PASS
					MCH	VN	-30	1.17
			-20	-0.26			-0.00037	PASS
			-10	1.19			0.00168	PASS
			0	0.53			0.00075	PASS
			10	0.16			0.00023	PASS
			20	-0.16			-0.00023	PASS
			30	-0.43			-0.00061	PASS
			40	-1.40			-0.00197	PASS
			HCH	VN	50	-1.52	-0.00214	PASS
					-30	3.60	0.00506	PASS
					-20	1.03	0.00145	PASS
					-10	1.37	0.00193	PASS
					0	2.15	0.00302	PASS
					10	1.59	0.00224	PASS
					20	1.70	0.00239	PASS
		30			1.32	0.00186	PASS	
		40	0.94	0.00132	PASS			
					50	0.66	0.00093	PASS

END