



6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

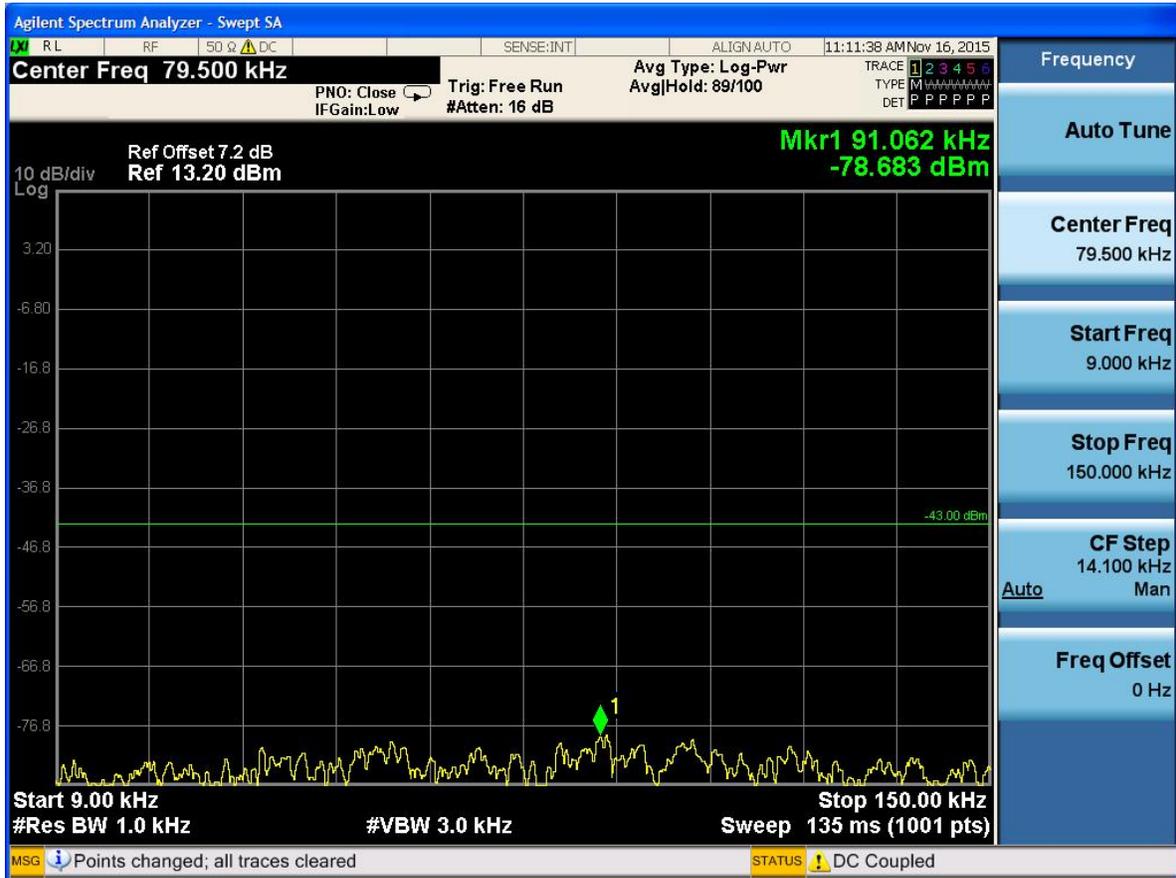


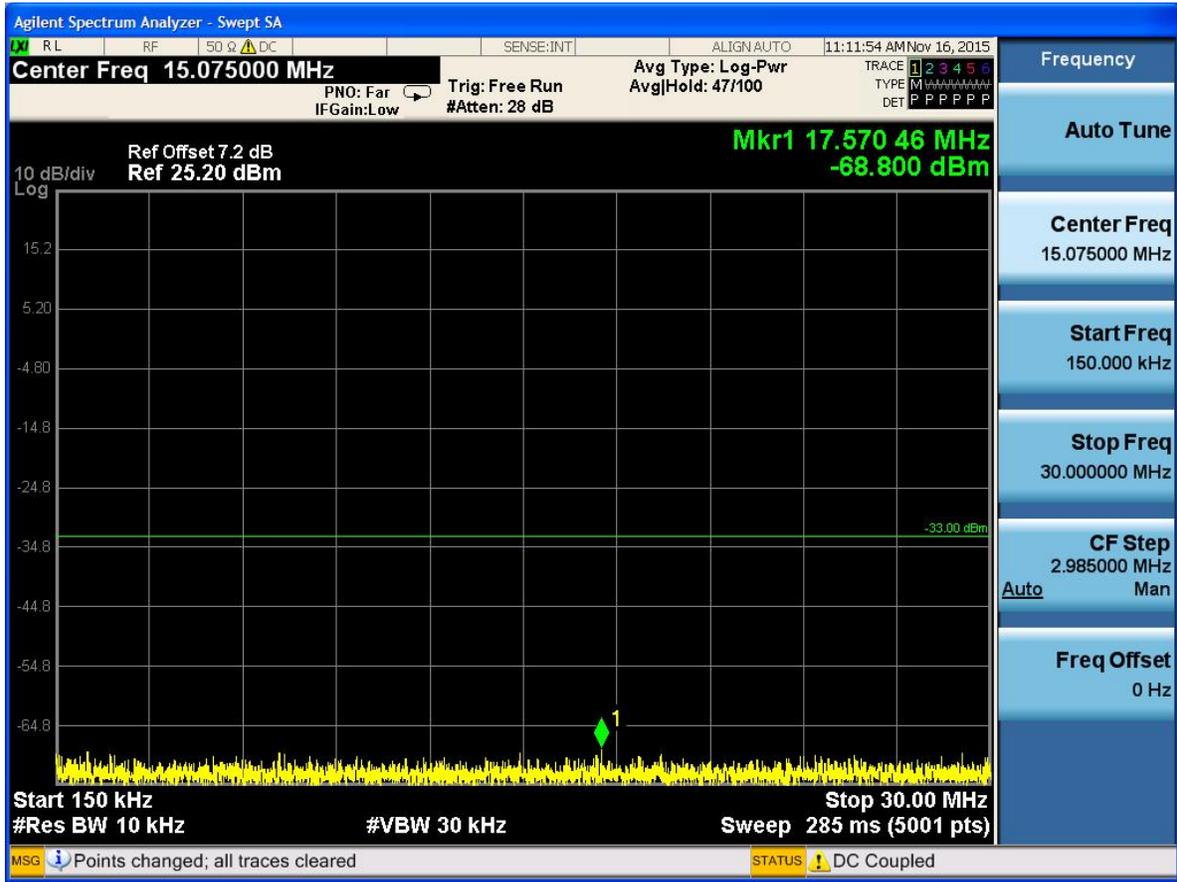




## 6.1.1.1.3.3 Test Channel = HCH

## 6.1.1.1.3.3.1 Test RB = RB1#0









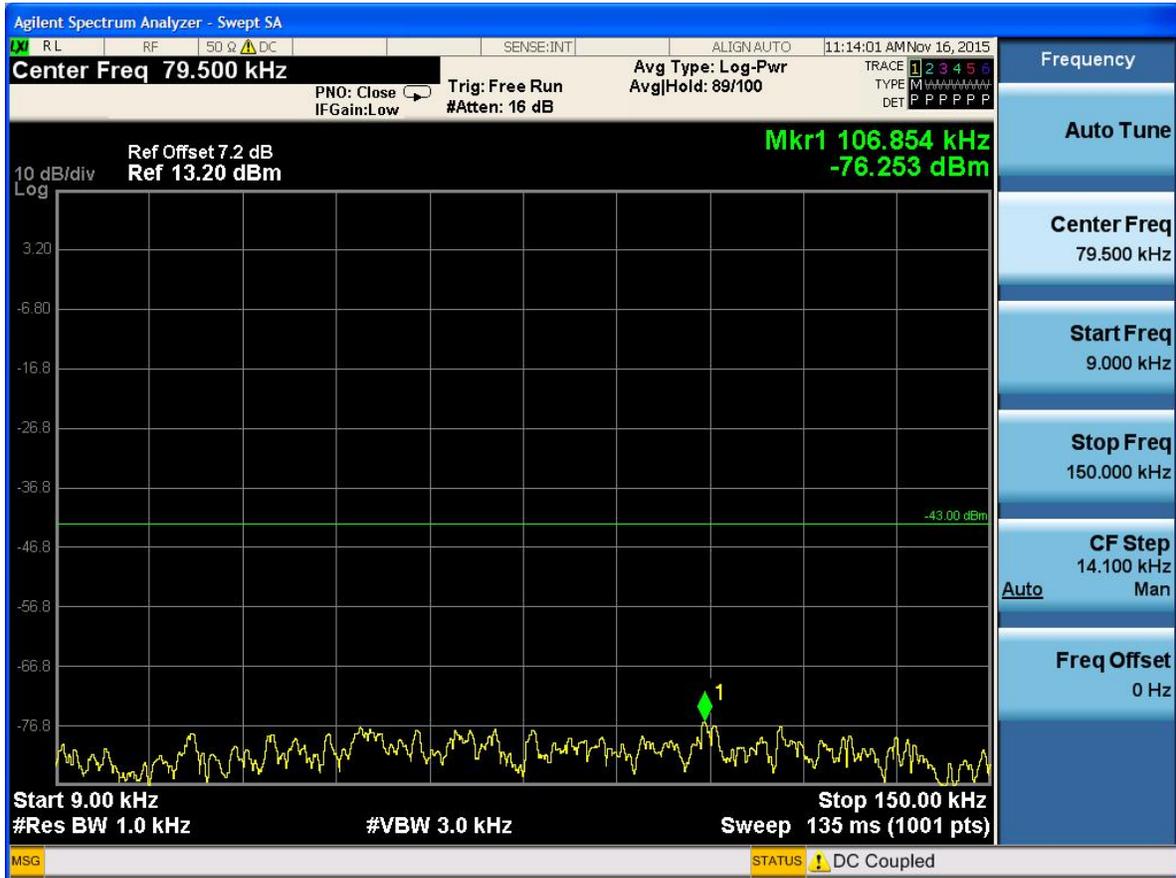


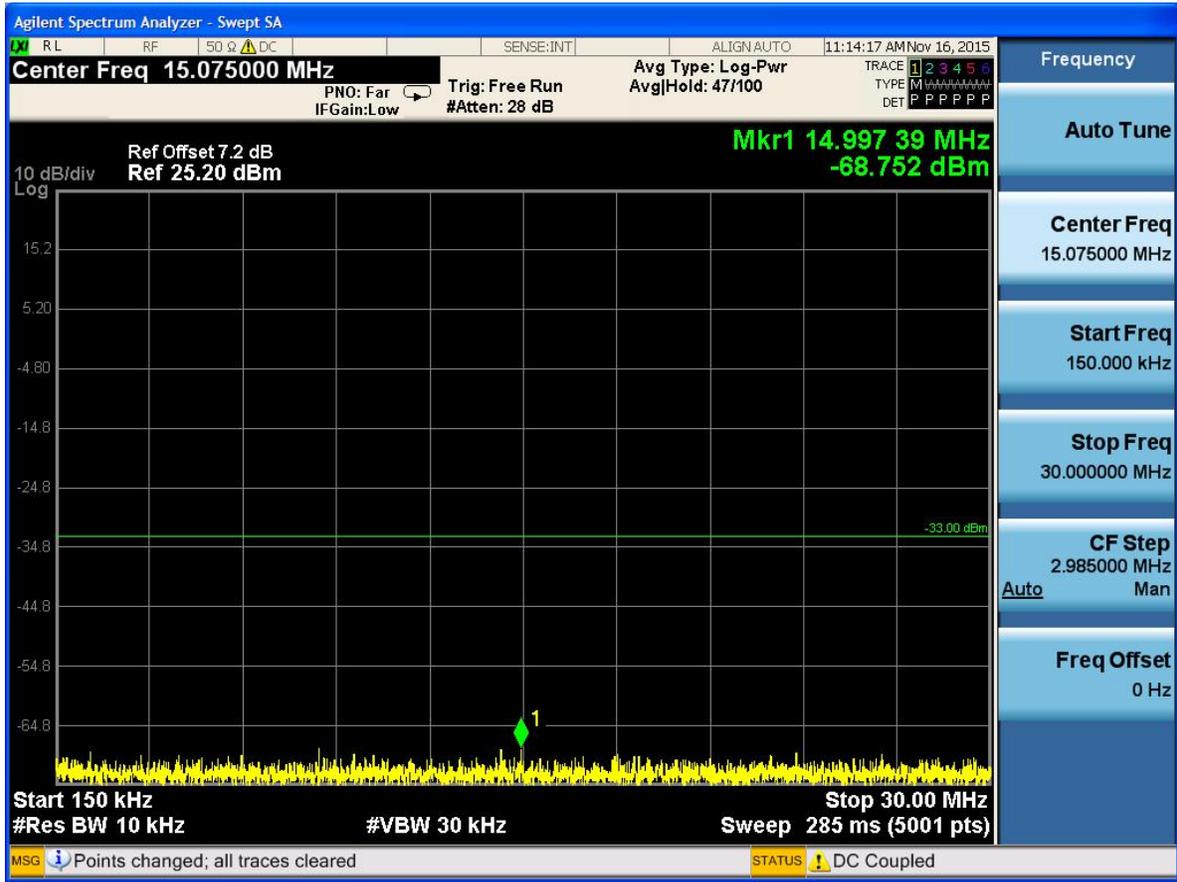




6.1.1.1.4.2 Test Channel = MCH

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





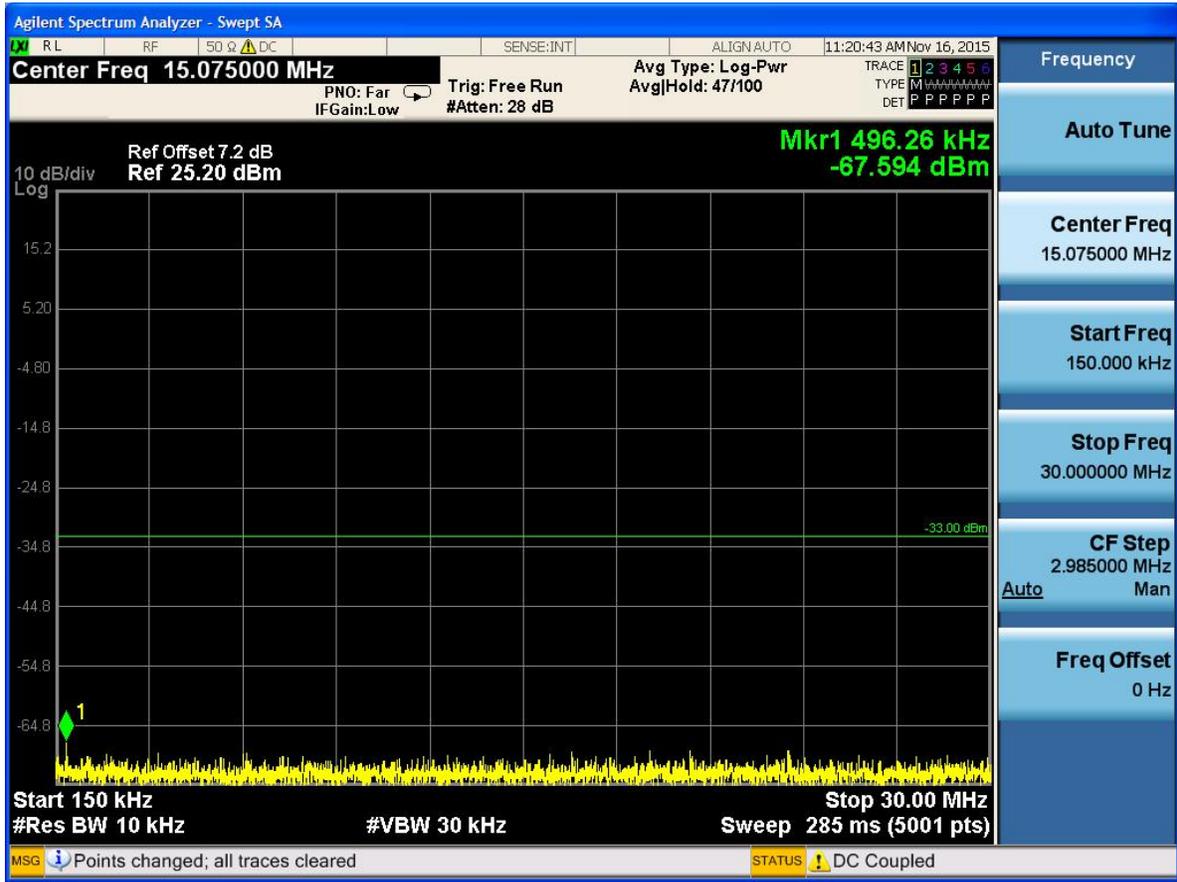




6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.1 Test RB = RB1#0

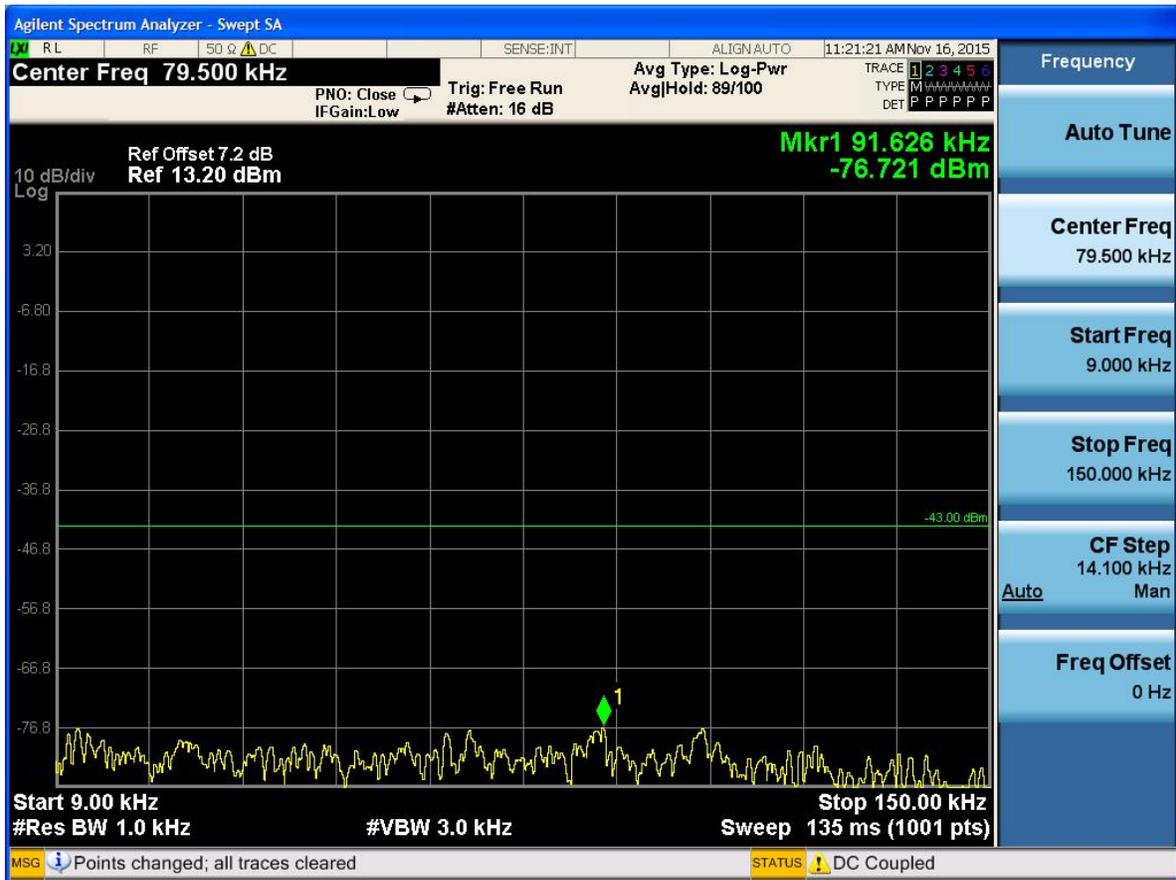






6.1.1.2.2.3 Test Channel = HCH

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



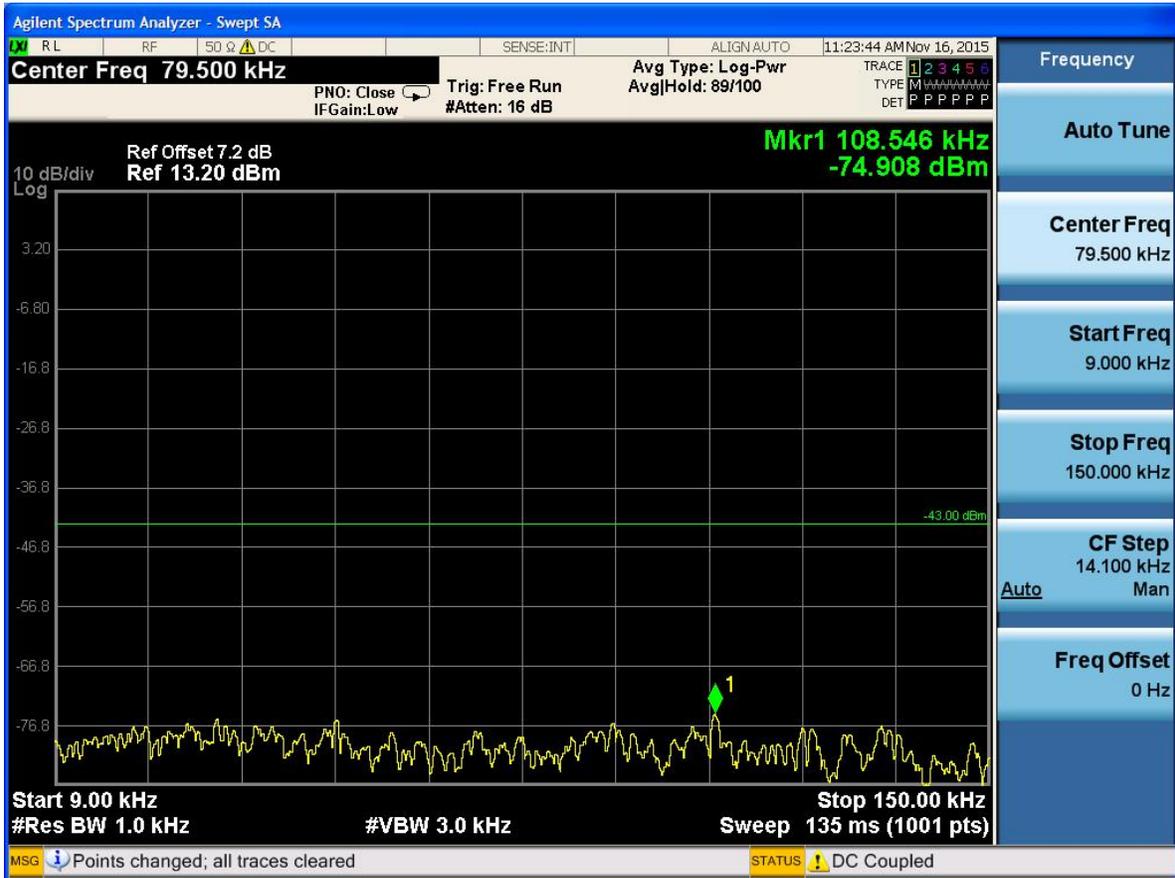






6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



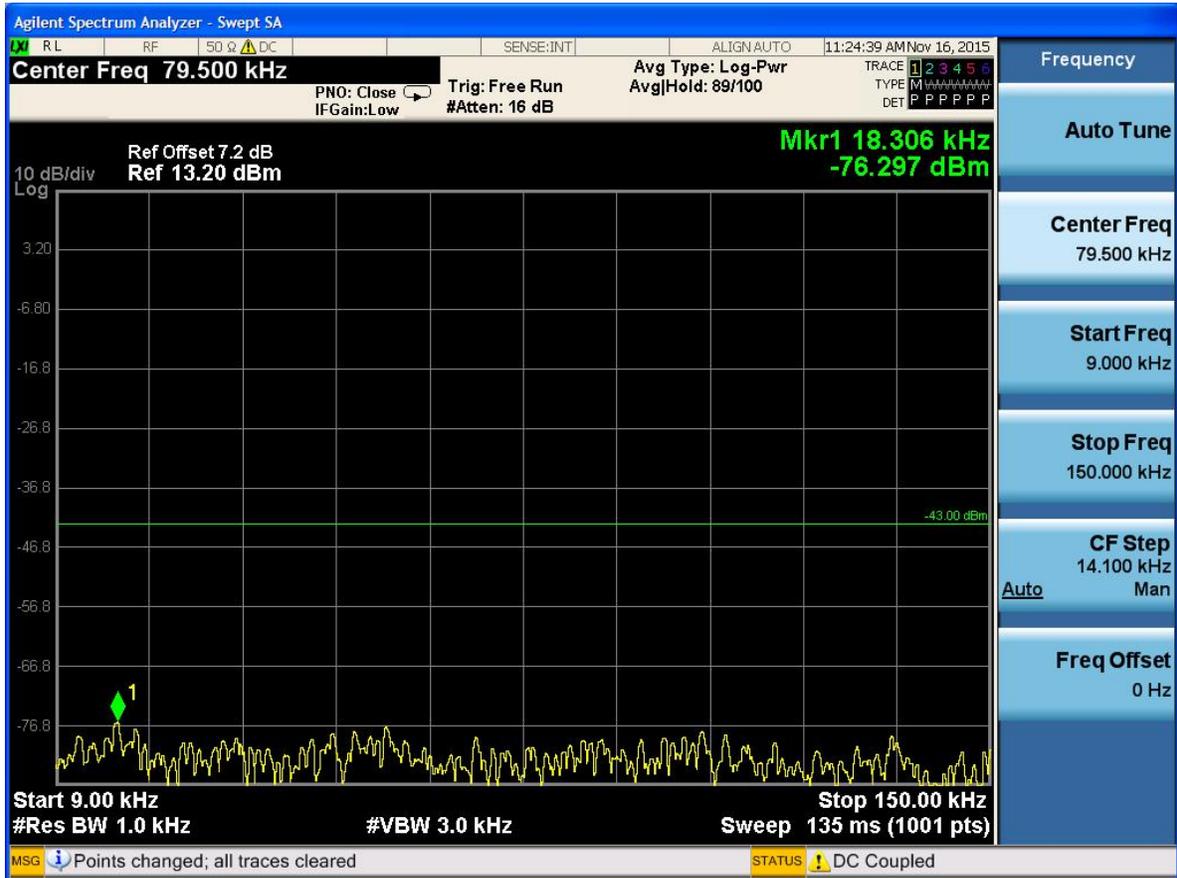






6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 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



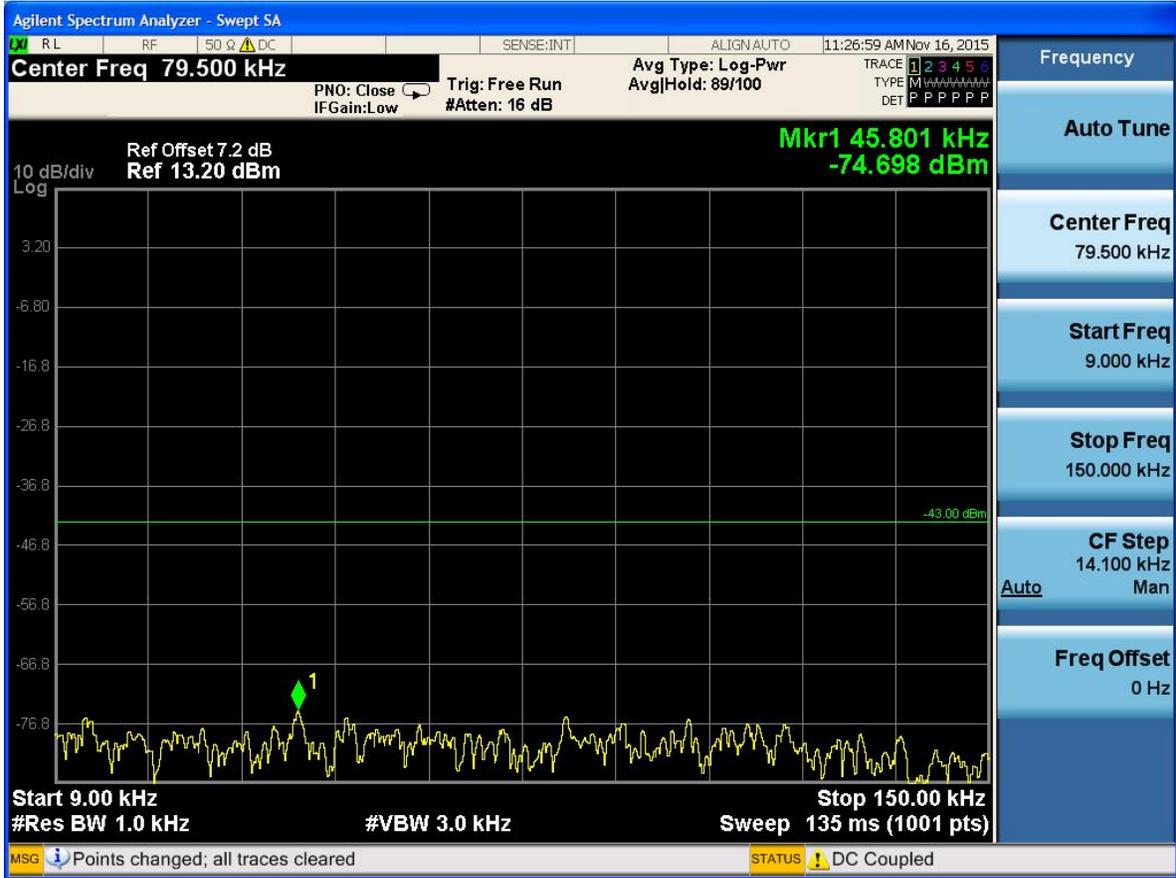






6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



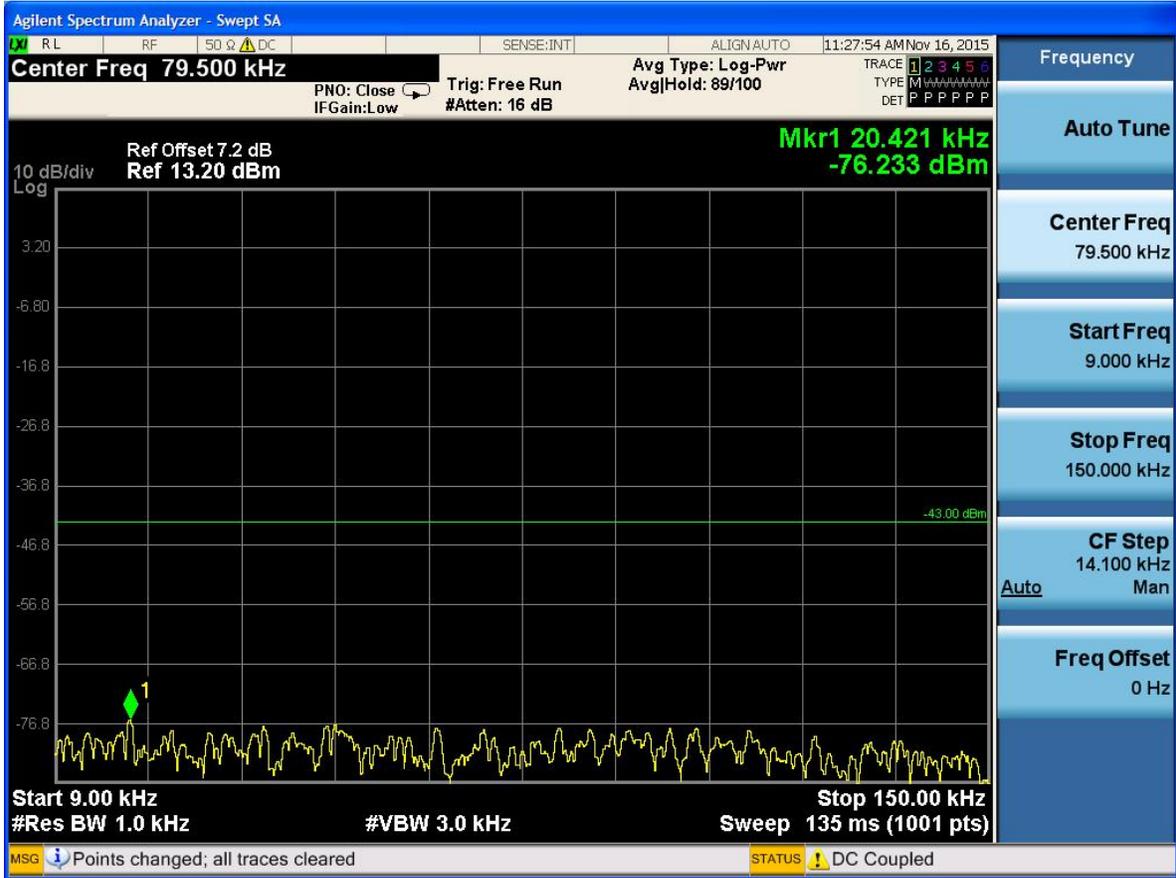






6.1.1.2.4.3 Test Channel = HCH

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

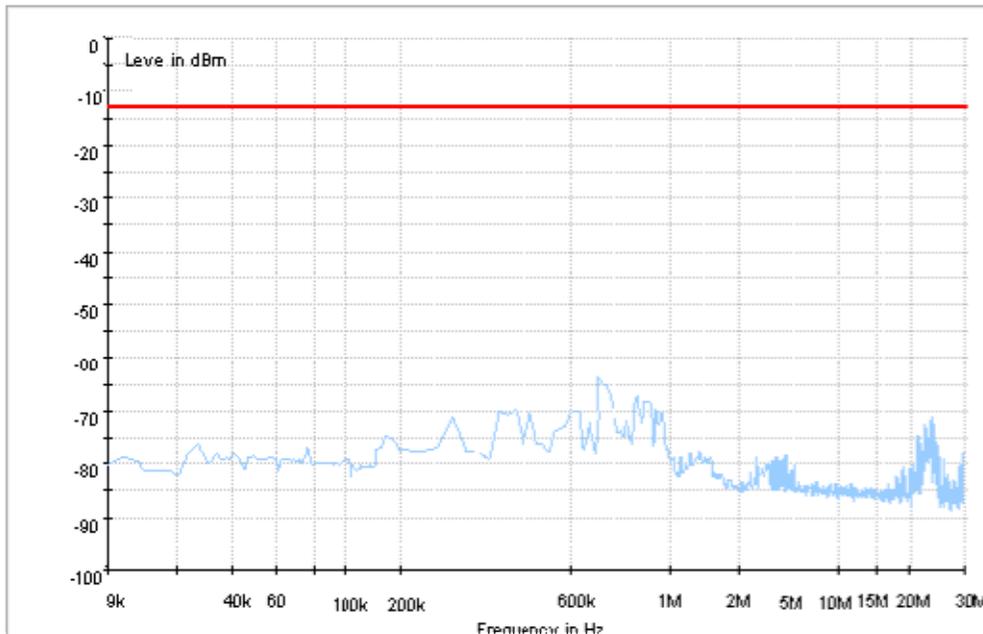
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

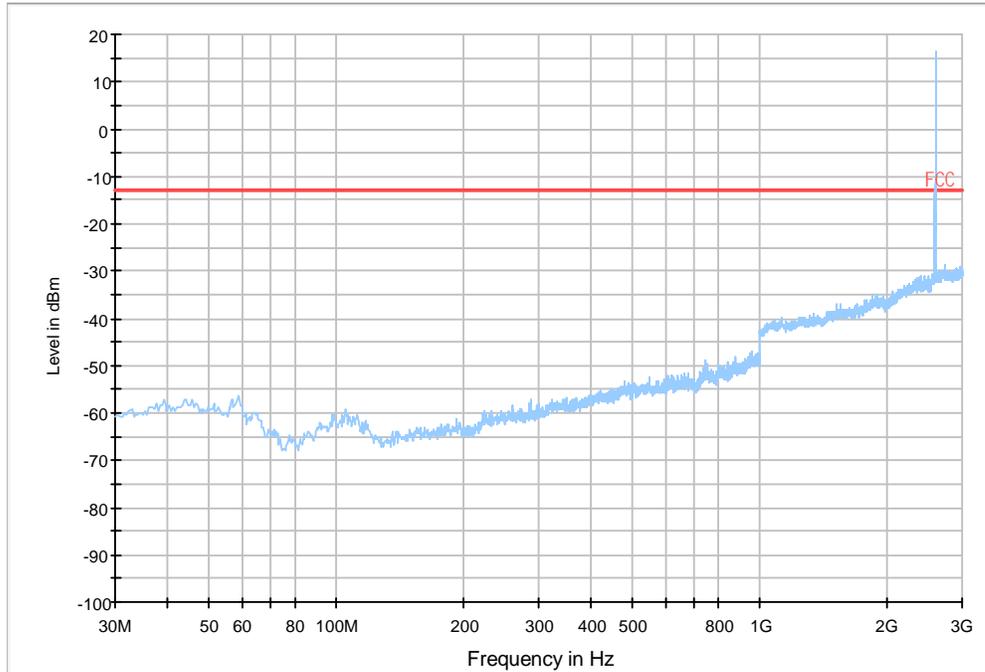
#### 7.1 For LTE

##### 7.1.1 Test Band = BAND41

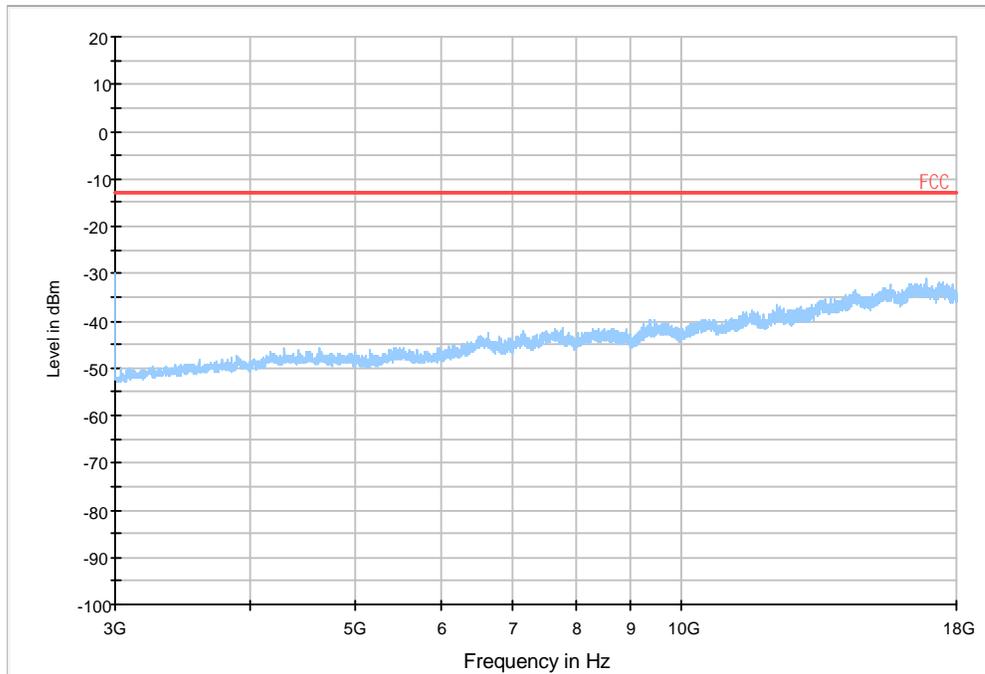
##### 7.1.1.1 Test Bandwidth = 5

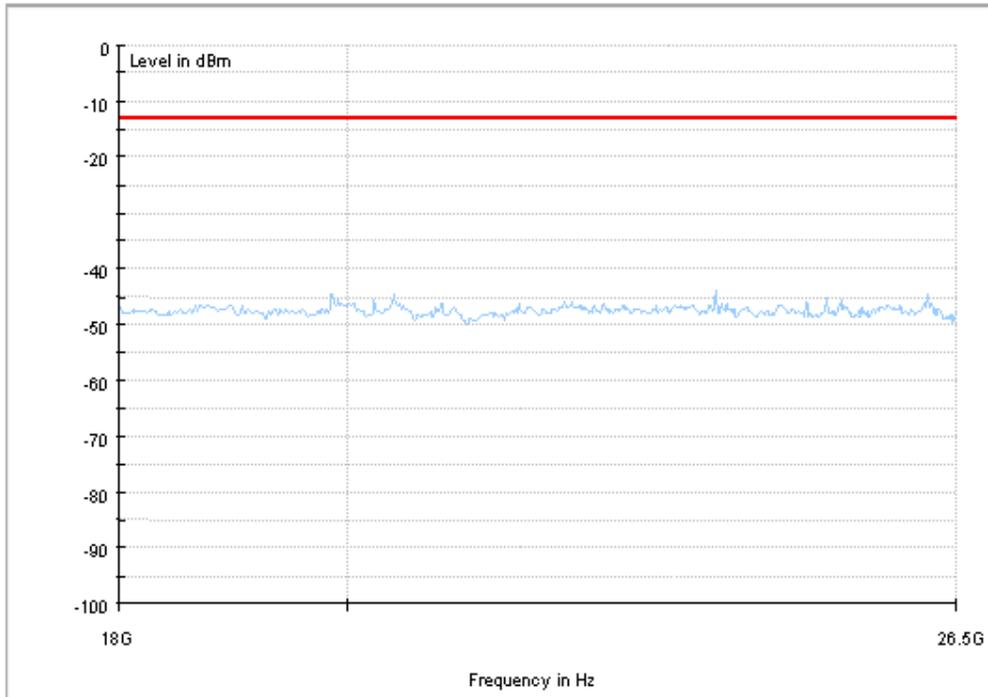


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L

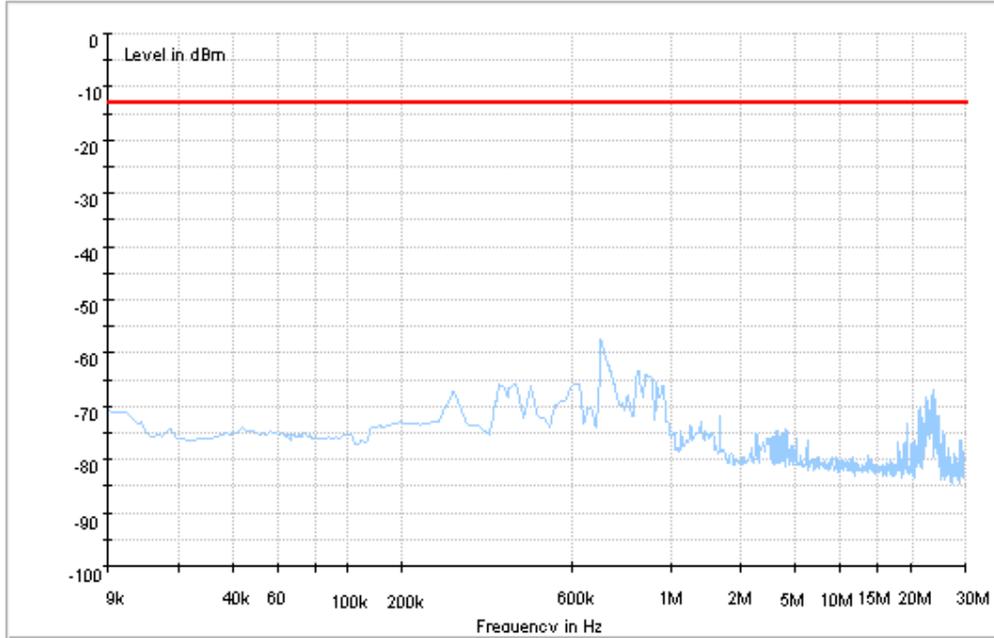


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_H

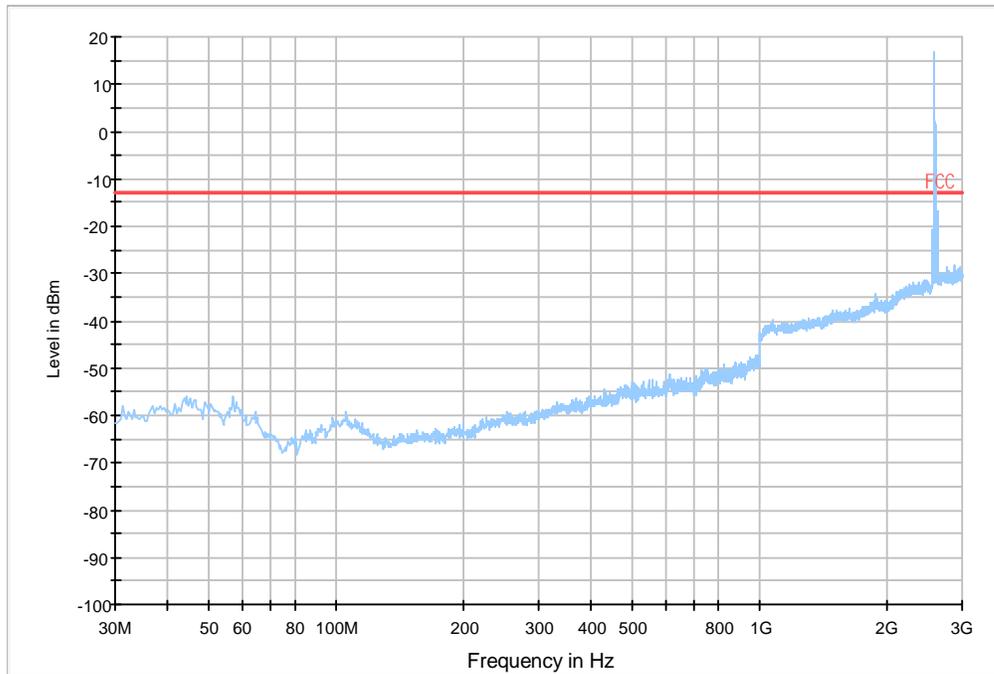




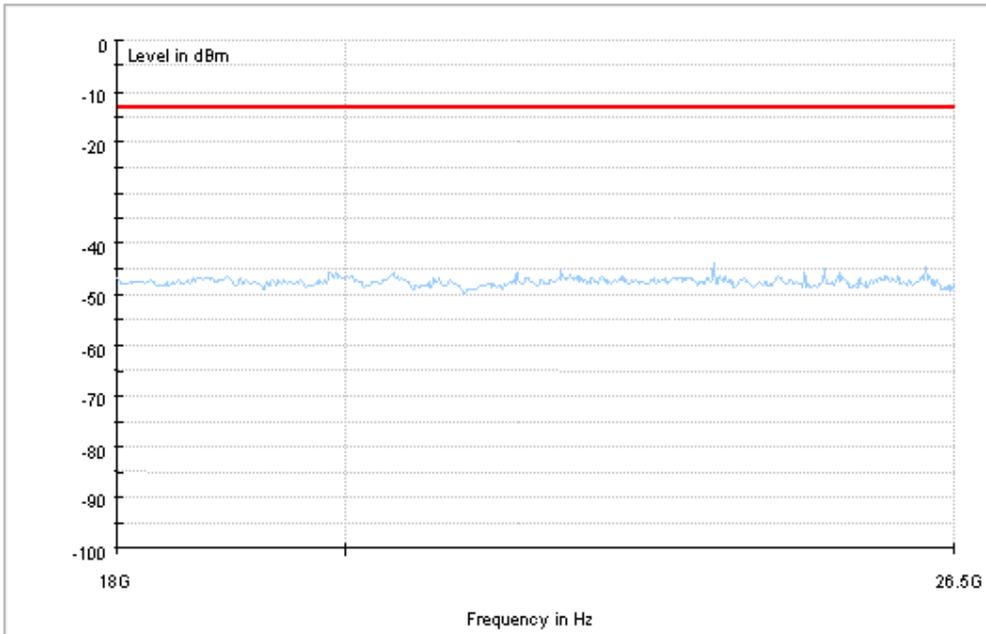
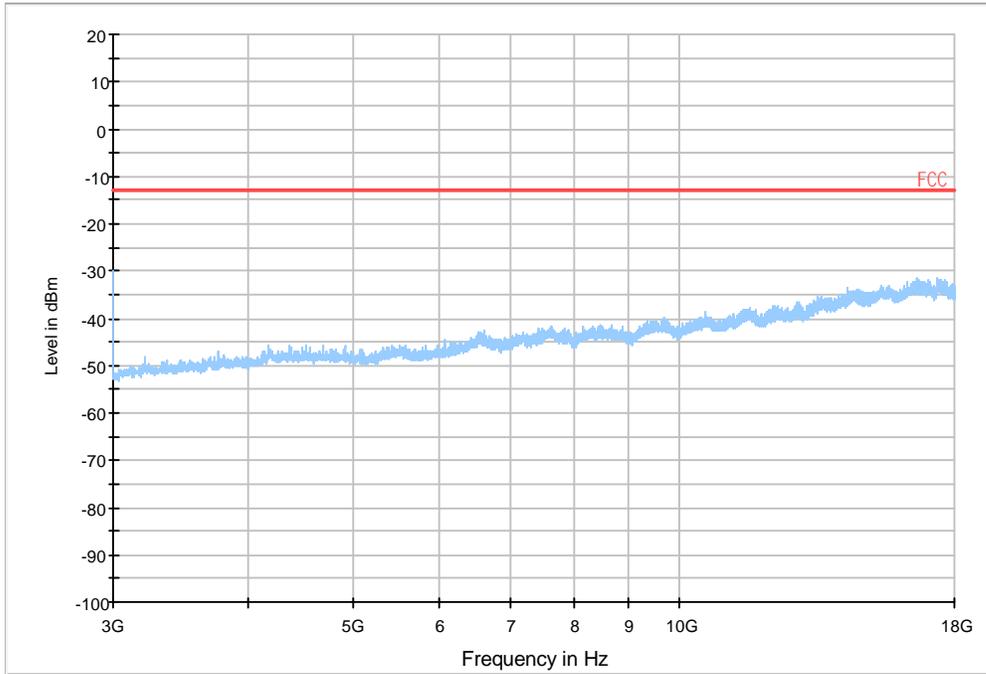
### 7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_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
BAND41	LTE/TM1	5	LCH	TN	VL	-40.8	-0.01595	PASS
					VN	-56.85	-0.02223	PASS
					VH	-59.44	-0.02324	PASS
			MCH	TN	VL	-52.61	-0.0202	PASS
					VN	-47.09	-0.01808	PASS
					VH	-44.98	-0.01727	PASS
			HCH	TN	VL	-8.35	-0.00315	PASS
					VN	-37.74	-0.01423	PASS
					VH	-26.76	-0.01009	PASS
		10	LCH	TN	VL	-18.84	-0.00736	PASS
					VN	-22.83	-0.00892	PASS
					VH	-9.88	-0.00386	PASS
			MCH	TN	VL	-6.18	-0.00237	PASS
					VN	-16.82	-0.00646	PASS
					VH	-8.47	-0.00325	PASS
			HCH	TN	VL	-7.38	-0.00278	PASS
					VN	-6.28	-0.00237	PASS
					VH	-2.83	-0.00107	PASS
		15	LCH	TN	VL	-2.96	-0.00116	PASS
					VN	-8.61	-0.00336	PASS
					VH	-6.09	-0.00238	PASS
			MCH	TN	VL	0.04	0.00002	PASS
					VN	-0.82	-0.00031	PASS
					VH	-4.55	-0.00175	PASS
HCH	TN		VL	1.22	0.00046	PASS		
			VN	5.78	0.00218	PASS		
			VH	-4.85	-0.00183	PASS		
20	LCH	TN	VL	-4.03	-0.00157	PASS		
			VN	1.19	0.00046	PASS		
			VH	-9.24	-0.0036	PASS		
	MCH	TN	VL	0.97	0.00037	PASS		
			VN	3.28	0.00126	PASS		
			VH	0.92	0.00035	PASS		
HCH	TN	VL	7.08	0.00268	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	8.15	0.00308	PASS
					VH	8.44	0.00319	PASS
		5	LCH	TN	VL	-18.31	-0.00716	PASS
					VN	2.5	0.00098	PASS
					VH	1.4	0.00055	PASS
					VL	-45.33	-0.0174	PASS
					VN	-6.92	-0.00266	PASS
					VH	-16.98	-0.00652	PASS
			MCH	TN	VL	-36.74	-0.01385	PASS
					VN	-12.86	-0.00485	PASS
					VH	-35.31	-0.01331	PASS
					VL	1.39	0.00054	PASS
					VN	-0.24	-0.00009	PASS
					VH	4.08	0.00159	PASS
		10	LCH	TN	VL	-7.6	-0.00292	PASS
					VN	-11.54	-0.00443	PASS
					VH	-10.03	-0.00385	PASS
					VL	7.67	0.00289	PASS
					VN	11.62	0.00438	PASS
					VH	3.98	0.0015	PASS
			MCH	TN	VL	5.34	0.00208	PASS
					VN	-1.49	-0.00058	PASS
					VH	1.19	0.00046	PASS
					VL	4.88	0.00187	PASS
					VN	1.1	0.00042	PASS
					VH	-1.86	-0.00071	PASS
		15	LCH	TN	VL	3.12	0.00118	PASS
					VN	2.43	0.00092	PASS
					VH	6.12	0.00231	PASS
					VL	-3.3	-0.00129	PASS
					VN	-3.36	-0.00131	PASS
					VH	2.13	0.00083	PASS
			MCH	TN	VL	9.47	0.00364	PASS
					VN	3.71	0.00142	PASS
					VH	7.22	0.00277	PASS
					VL	9.96	0.00377	PASS
VN	15.75				0.00595	PASS		
VH	15.35				0.0058	PASS		
20	HCH	TN						

## 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	29.45	0.01152	PASS
					-20	30.43	0.0119	PASS
					-10	13.06	0.00511	PASS
					0	4.38	0.00171	PASS
					10	33.65	0.01316	PASS
					20	31.31	0.01224	PASS
					30	4.72	0.00185	PASS
			40	-24.15	-0.00944	PASS		
			50	1.46	0.00057	PASS		
			MCH	VN	-30	0.09	0.00003	PASS
					-20	12.46	0.00478	PASS
					-10	13.95	0.00536	PASS
					0	-12.83	-0.00493	PASS
					10	15.21	0.00584	PASS
		20			-3.58	-0.00137	PASS	
		30			2.4	0.00092	PASS	
		40	21.57	0.00828	PASS			
		50	20.94	0.00804	PASS			
		HCH	VN	-30	37.42	0.01411	PASS	
				-20	31.61	0.01192	PASS	
				-10	-1.73	-0.00065	PASS	
				0	-1.97	-0.00074	PASS	
				10	38.51	0.01452	PASS	
				20	3.58	0.00135	PASS	
				30	11.52	0.00434	PASS	
		40	17.61	0.00664	PASS			
		50	-9.98	-0.00376	PASS			
		10	LCH	VN	-30	-2.37	-0.00093	PASS
-20	10.8				0.00422	PASS		
-10	5.58				0.00218	PASS		
0	8.96				0.0035	PASS		
10	6.18				0.00241	PASS		
20	1.16				0.00045	PASS		
30	-4.81				-0.00188	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-2.2	-0.00086	PASS
					50	0.19	0.00007	PASS
			MCH	VN	-30	1.16	0.00045	PASS
					-20	10.34	0.00397	PASS
					-10	13.72	0.00527	PASS
					0	-0.57	-0.00022	PASS
					10	-12.07	-0.00463	PASS
					20	2.66	0.00102	PASS
					30	2.03	0.00078	PASS
					40	5.34	0.00205	PASS
					50	3.16	0.00121	PASS
					HCH	VN	-30	8.11
			-20	-4.72			-0.00178	PASS
			-10	4.78			0.0018	PASS
			0	-4.16			-0.00157	PASS
			10	10.09			0.00381	PASS
		20	8.94	0.00337			PASS	
		30	10.43	0.00394			PASS	
		40	7.27	0.00274			PASS	
		15	LCH	VN	-30	2.56	0.001	PASS
					-20	1.92	0.00075	PASS
					-10	1.97	0.00077	PASS
					0	4.42	0.00172	PASS
					10	0.39	0.00015	PASS
					20	-2.46	-0.00096	PASS
					30	-0.1	-0.00004	PASS
					40	-1.76	-0.00069	PASS
			MCH	VN	-30	-2.42	-0.00093	PASS
					-20	0.2	0.00008	PASS
					-10	-1.86	-0.00071	PASS
					0	-0.04	-0.00002	PASS
					10	-3.32	-0.00127	PASS
20	0.93				0.00036	PASS		
30	2.62				0.00101	PASS		
40	1.16				0.00045	PASS		
HCH	VN	-30	5.69	0.00215	PASS			
		50	1.37	0.00053	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict							
					-20	5.87	0.00222	PASS							
					-10	2.78	0.00105	PASS							
					0	2.36	0.00089	PASS							
					10	2.25	0.00085	PASS							
					20	3.83	0.00145	PASS							
					30	2.63	0.00099	PASS							
					40	9.07	0.00343	PASS							
					50	5.84	0.00221	PASS							
					LCH	VN				-30	-2.09	-0.00081	PASS		
										-20	-2.9	-0.00113	PASS		
										-10	-4.36	-0.0017	PASS		
										0	-5.14	-0.002	PASS		
		10	-5.48	-0.00214						PASS					
		20	-6.81	-0.00265						PASS					
		30	-2.78	-0.00108						PASS					
		40	-4.72	-0.00184						PASS					
		50	-1.75	-0.00068						PASS					
		MCH	VN	20								-30	-1.32	-0.00051	PASS
												-20	-1.65	-0.00063	PASS
												-10	2.12	0.00081	PASS
					0	2.6	0.001	PASS							
					10	-0.07	-0.00003	PASS							
					20	4.59	0.00176	PASS							
					30	1.65	0.00063	PASS							
	40				1.75	0.00067	PASS								
	HCH	VN	20			50	5.85	0.00225	PASS						
						-30	10.97	0.00415	PASS						
						-20	15.39	0.00582	PASS						
						-10	11.6	0.00439	PASS						
						0	15.66	0.00592	PASS						
						10	13.79	0.00521	PASS						
						20	11.32	0.00428	PASS						
						30	14.79	0.00559	PASS						
	LCH	VN	5			-30	18.14	0.00709	PASS						
						-20	34.68	0.01356	PASS						
						-10	10.47	0.00409	PASS						
0						15.51	0.00606	PASS							

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		10			10	38.51	0.01506	PASS
					20	40.14	0.0157	PASS
					30	4.15	0.00162	PASS
					40	8.61	0.00337	PASS
					50	34.42	0.01346	PASS
			MCH	VN	-30	21.13	0.00811	PASS
					-20	26.91	0.01033	PASS
					-10	20.56	0.00789	PASS
					0	21.93	0.00842	PASS
					10	32.1	0.01232	PASS
					20	12.02	0.00461	PASS
					30	-2.1	-0.00081	PASS
					40	29.48	0.01132	PASS
			HCH	VN	50	14.83	0.00569	PASS
					-30	45.38	0.01711	PASS
					-20	26.41	0.00996	PASS
					-10	19.17	0.00723	PASS
					0	9.77	0.00368	PASS
					10	23.26	0.00877	PASS
					20	22.85	0.00861	PASS
					30	34.88	0.01315	PASS
		10	LCH	VN	40	40.05	0.0151	PASS
					50	28.17	0.01062	PASS
					-30	22.43	0.00876	PASS
					-20	17.01	0.00664	PASS
					-10	23.79	0.00929	PASS
					0	14.23	0.00556	PASS
					10	21.09	0.00824	PASS
					20	6.47	0.00253	PASS
					30	9.07	0.00354	PASS
		MCH	VN	40	8.44	0.0033	PASS	
				50	14.25	0.00557	PASS	
				-30	2.68	0.00103	PASS	
-20	9.97			0.00383	PASS			
-10	9			0.00345	PASS			
0	12.1			0.00464	PASS			
10	8.65			0.00332	PASS			
20	9.34	0.00359	PASS					
30	12.26	0.00471	PASS					

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	9.44	0.00362	PASS
					50	8.75	0.00336	PASS
			HCH	VN	-30	10.7	0.00404	PASS
					-20	11.96	0.00451	PASS
					-10	10.16	0.00383	PASS
					0	9.23	0.00348	PASS
					10	20.4	0.0077	PASS
					20	17.74	0.00669	PASS
					30	12.95	0.00489	PASS
					40	3.43	0.00129	PASS
					50	17.8	0.00672	PASS
		15			LCH	VN	-30	6.92
			-20	6.62			0.00258	PASS
			-10	9.86			0.00385	PASS
			0	7.3			0.00285	PASS
			10	2.6			0.00101	PASS
			20	6.75			0.00263	PASS
			30	-1.13			-0.00044	PASS
			40	2.19			0.00085	PASS
			50	7.37	0.00288	PASS		
			MCH	VN	-30	4.52	0.00174	PASS
					-20	2.47	0.00095	PASS
		-10			4.31	0.00165	PASS	
		0			0.97	0.00037	PASS	
		10			7.6	0.00292	PASS	
		20			2.26	0.00087	PASS	
		30			5.31	0.00204	PASS	
		HCH	VN	-30	7.82	0.00295	PASS	
				-20	7.52	0.00284	PASS	
				-10	7.78	0.00294	PASS	
				0	4.56	0.00172	PASS	
				10	10.8	0.00408	PASS	
				20	5.22	0.00197	PASS	
30	0.09			0.00003	PASS			
40	9.07			0.00343	PASS			
20	LCH	VN	-30	0.93	0.00036	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	3.52	0.00137	PASS
					-10	4.36	0.0017	PASS
					0	2	0.00078	PASS
					10	0.47	0.00018	PASS
					20	-1.69	-0.00066	PASS
					30	-0.56	-0.00022	PASS
					40	-3.35	-0.00131	PASS
					50	-2.45	-0.00096	PASS
			MCH	VN	-30	3.45	0.00132	PASS
					-20	4.73	0.00182	PASS
					-10	4.96	0.0019	PASS
					0	3.99	0.00153	PASS
					10	4.38	0.00168	PASS
					20	5.19	0.00199	PASS
					30	5.08	0.00195	PASS
					40	4.71	0.00181	PASS
			HCH	VN	-30	13.86	0.00524	PASS
					-20	13.2	0.00499	PASS
					-10	14.35	0.00543	PASS
					0	17.54	0.00663	PASS
					10	13.25	0.00501	PASS
					20	10.07	0.00381	PASS
					30	9.21	0.00348	PASS
					40	6.85	0.00259	PASS
			50	16.52	0.00625	PASS		

END