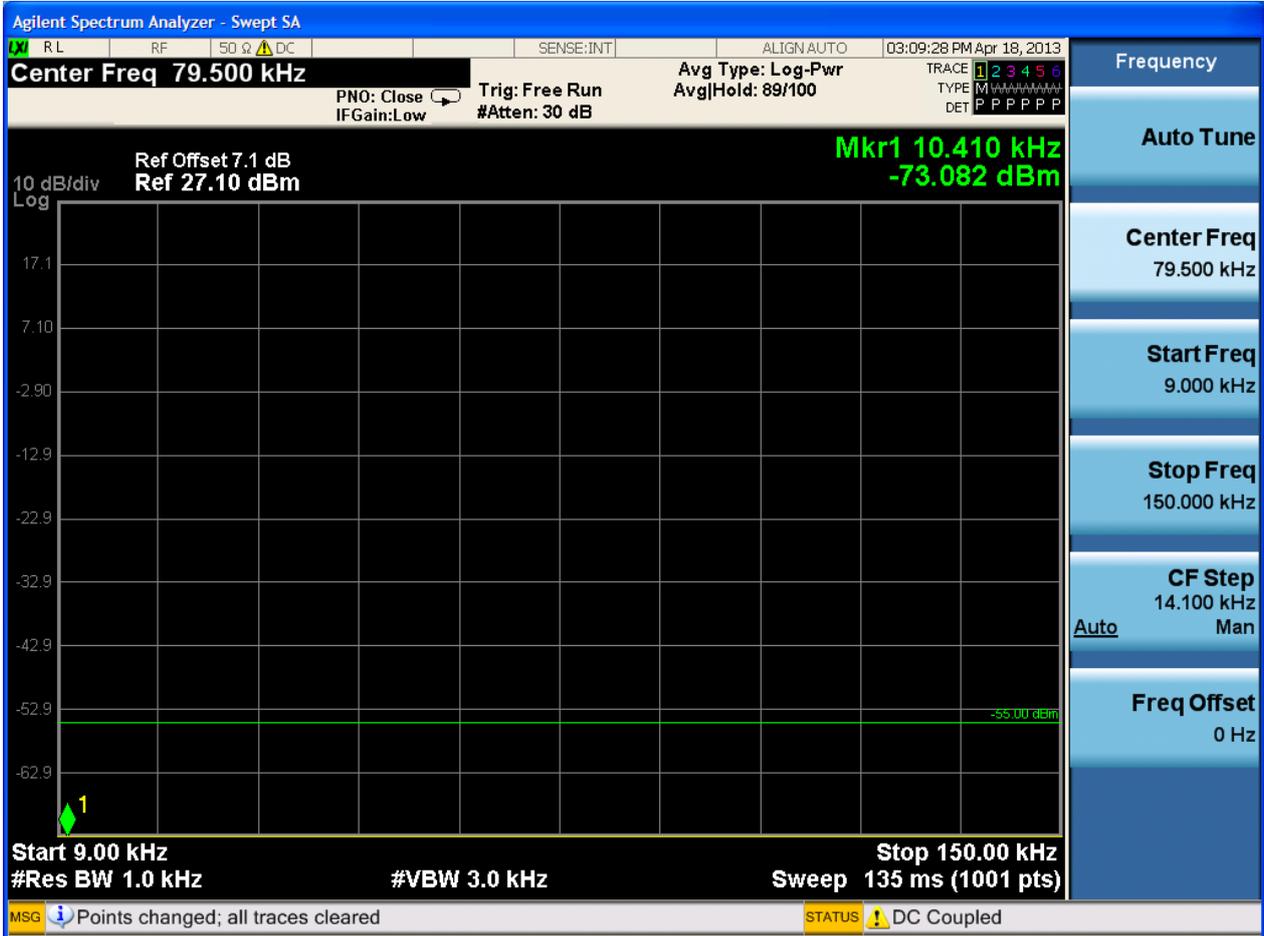
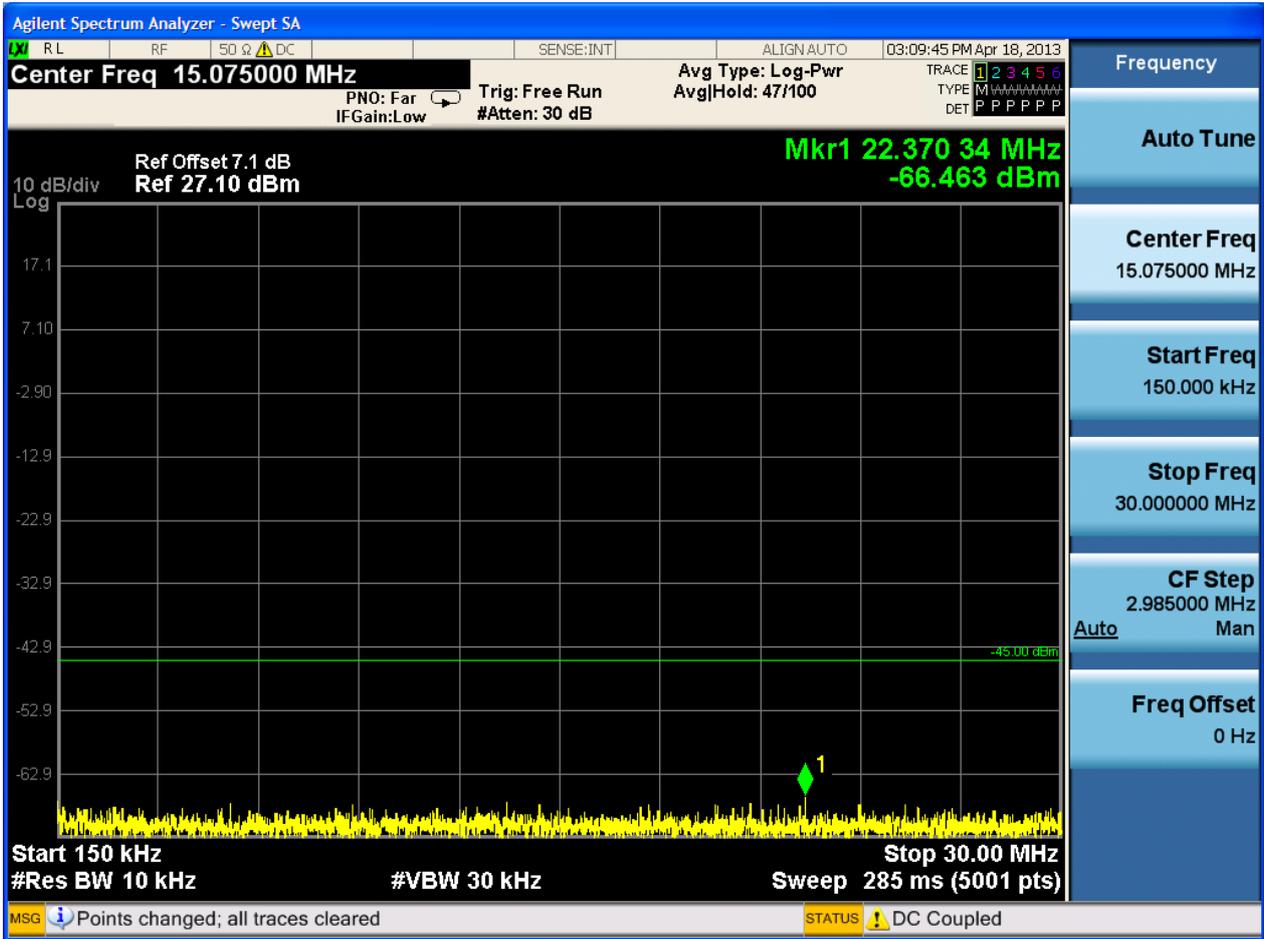


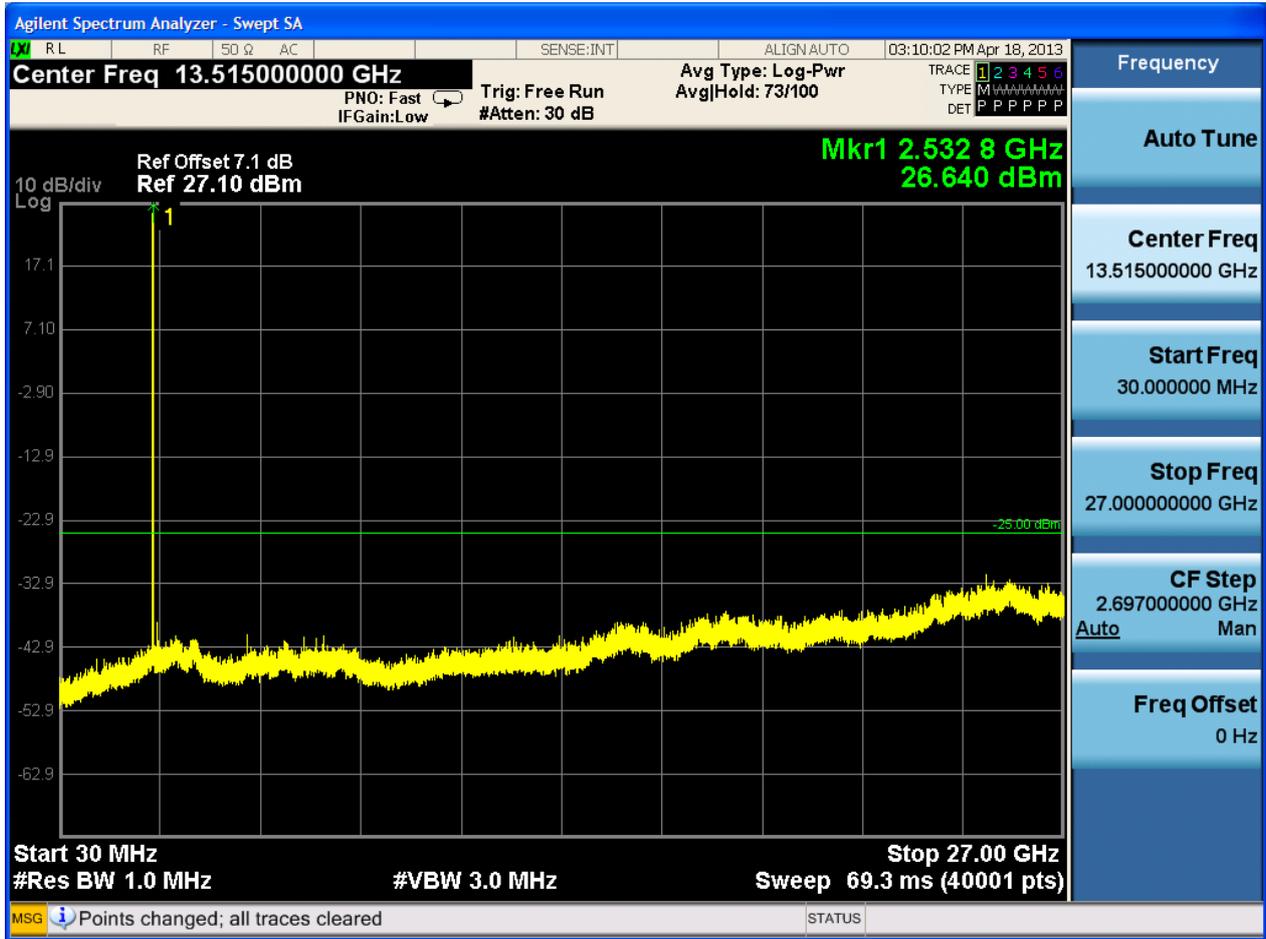


6.3.1.1.1.2 Test Channel = HCH

6.3.1.1.1.2.1 Test RB = RB1#0



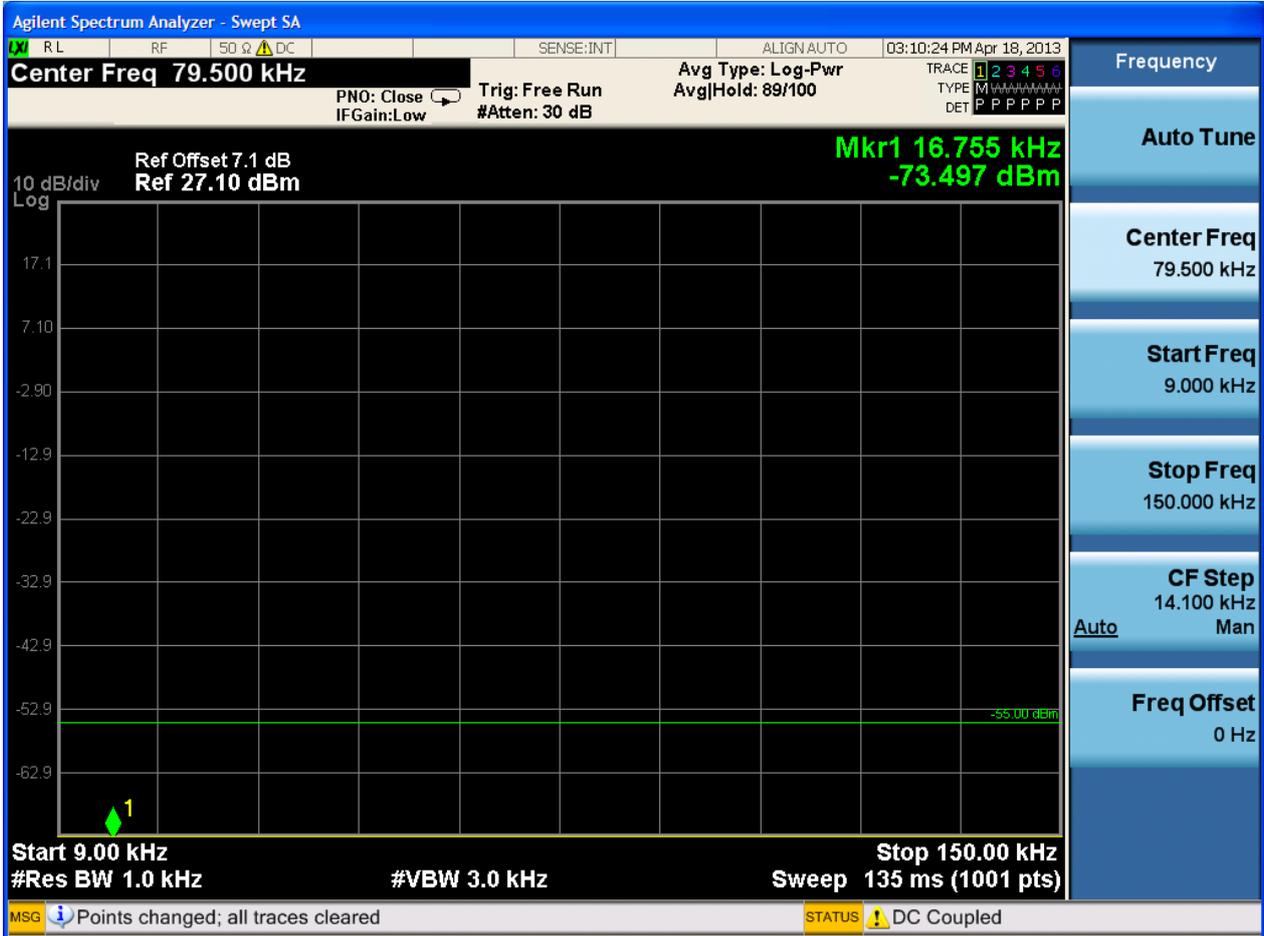


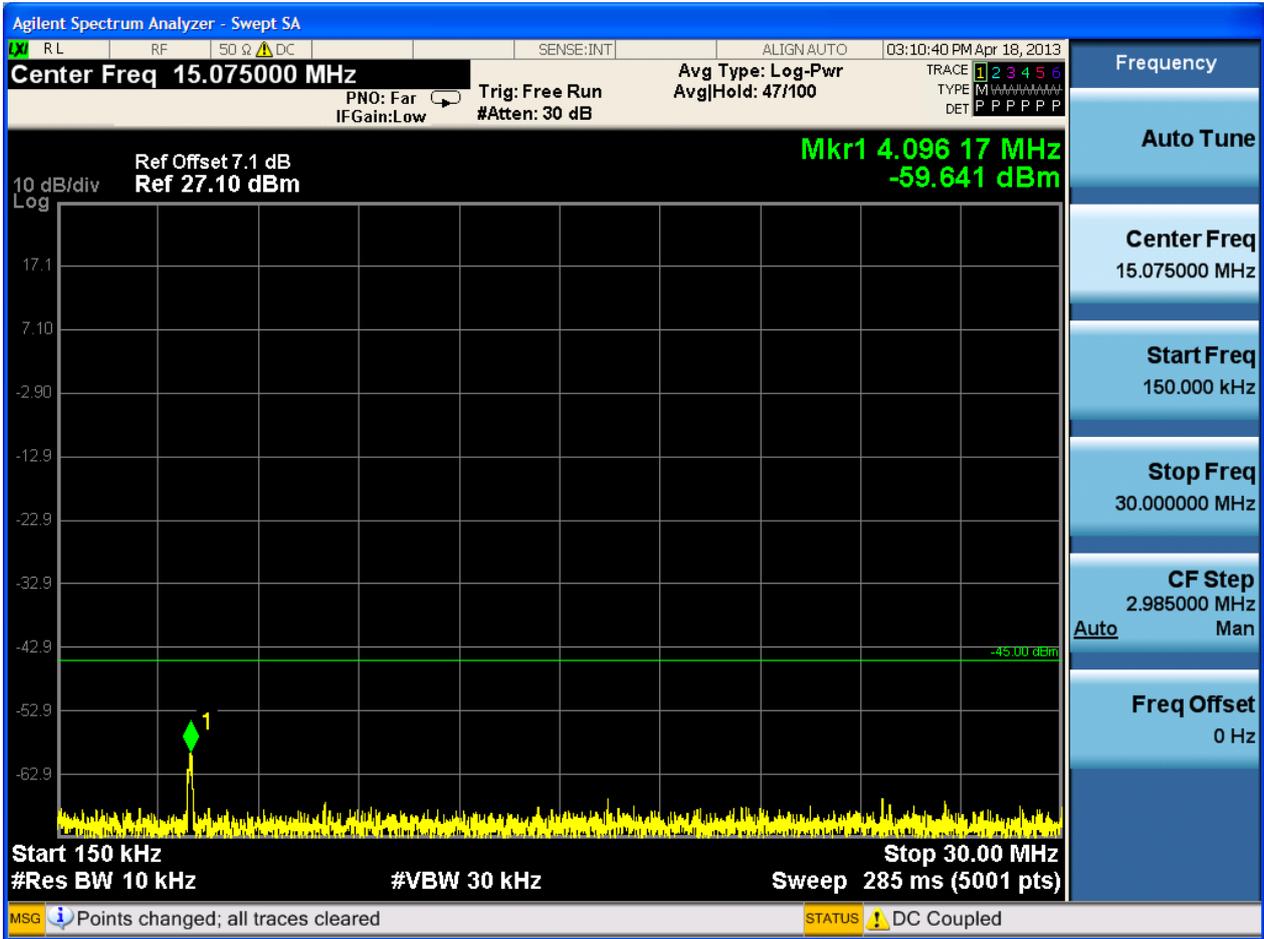


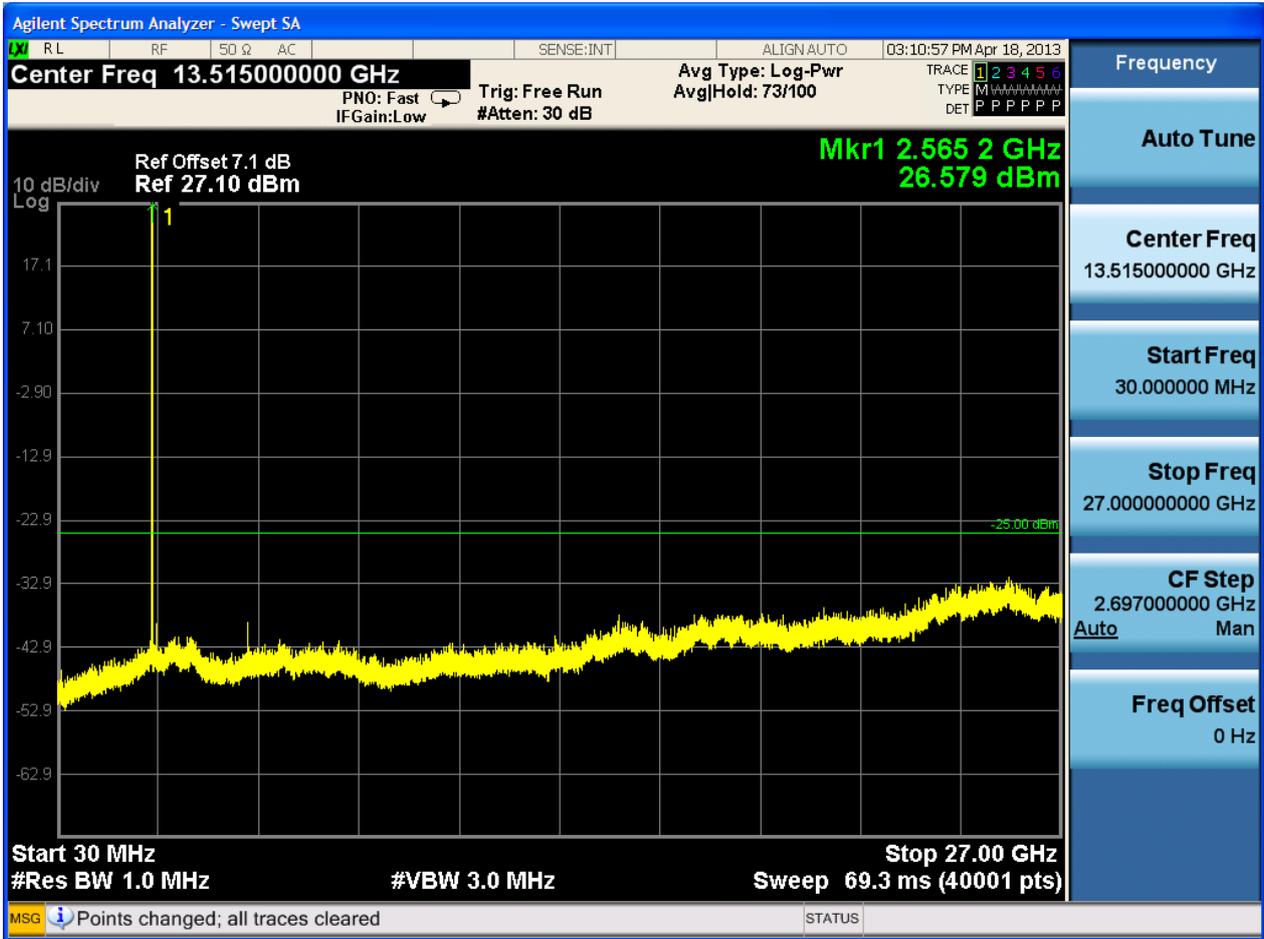


6.3.1.1.1.3 Test Channel = MCH

6.3.1.1.1.3.1 Test RB = RB1#0







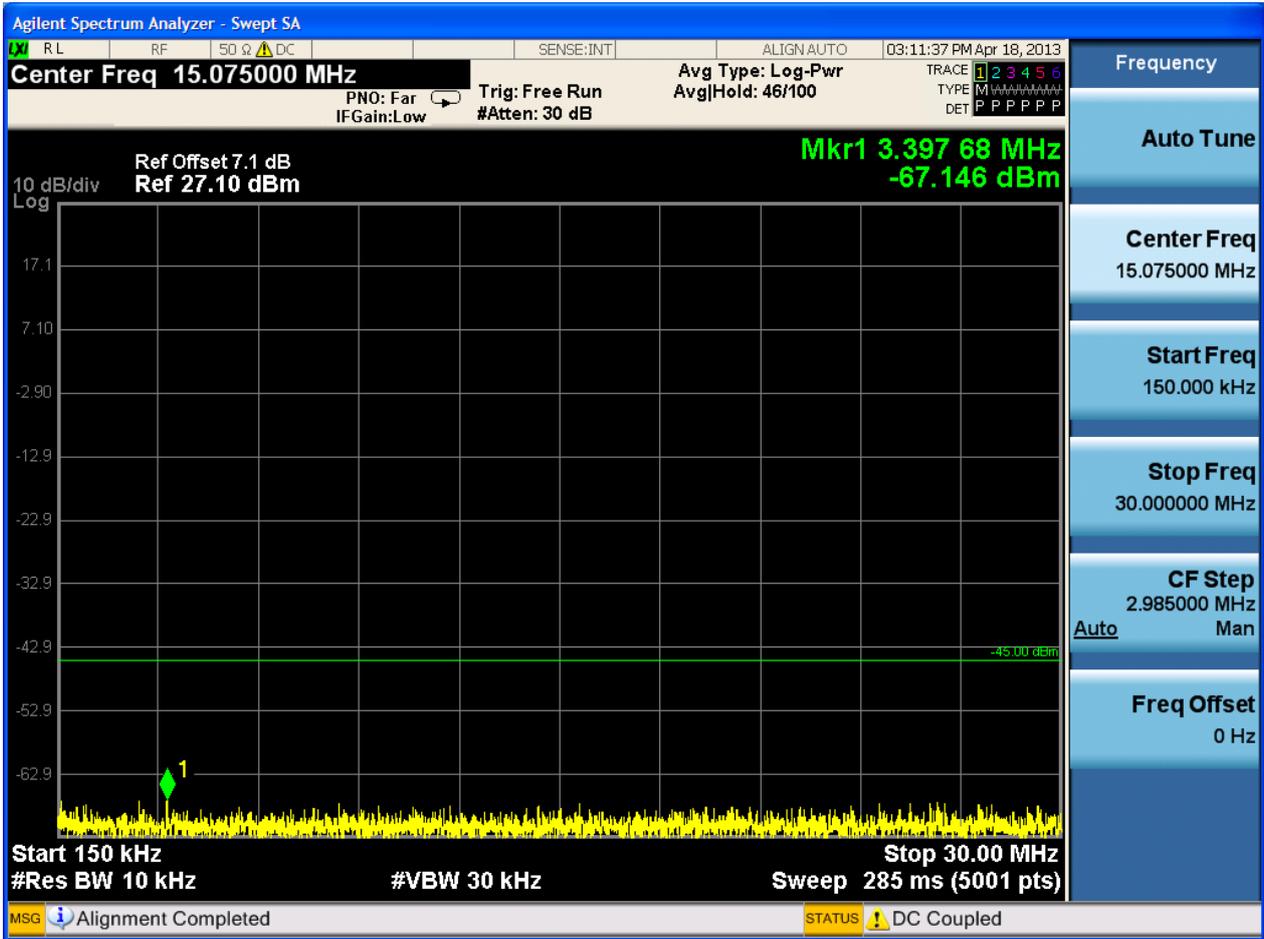


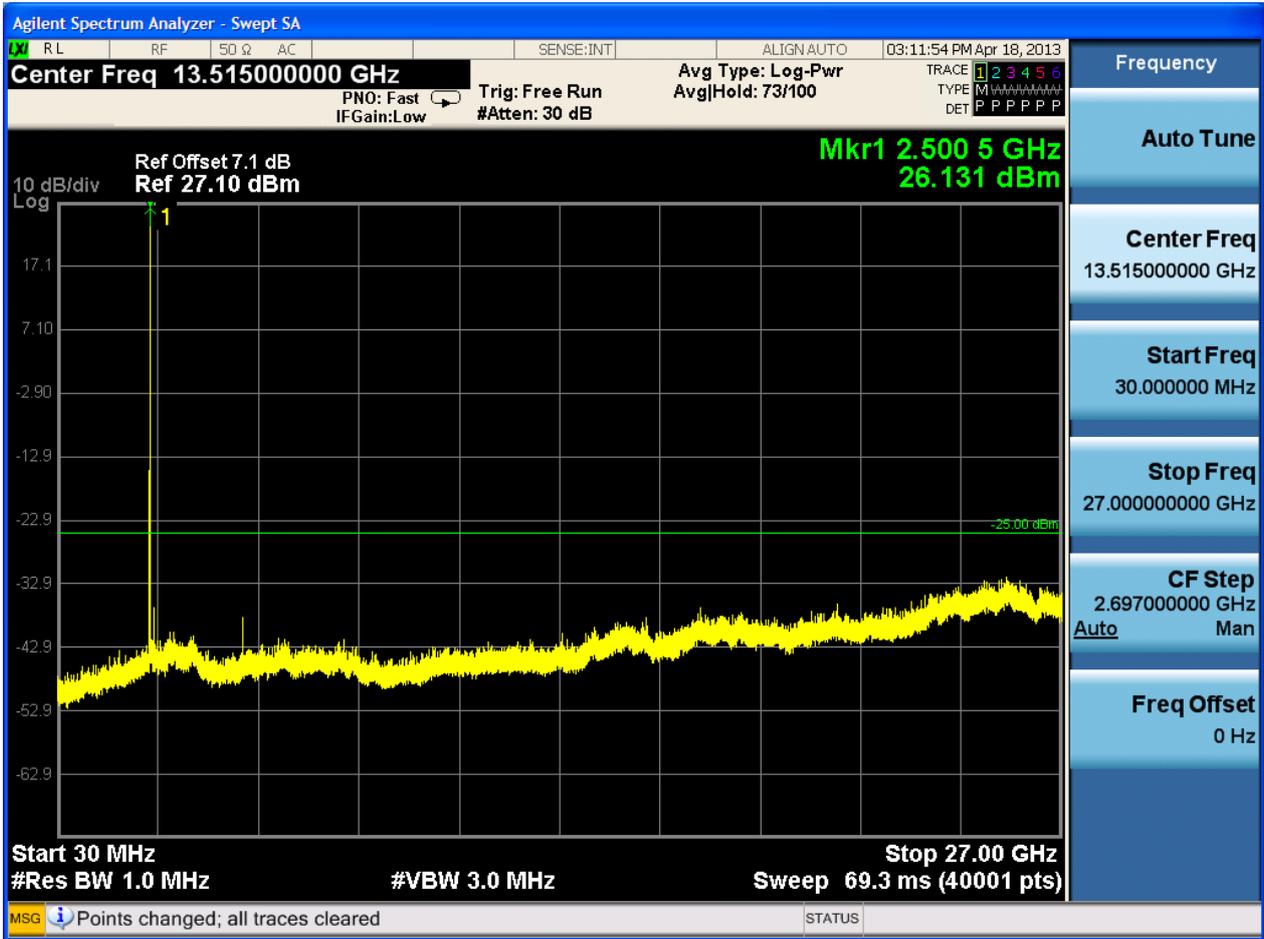
6.3.1.1.2 Test Bandwidth = 10

6.3.1.1.2.1 Test Channel = LCH

6.3.1.1.2.1.1 Test RB = RB1#0



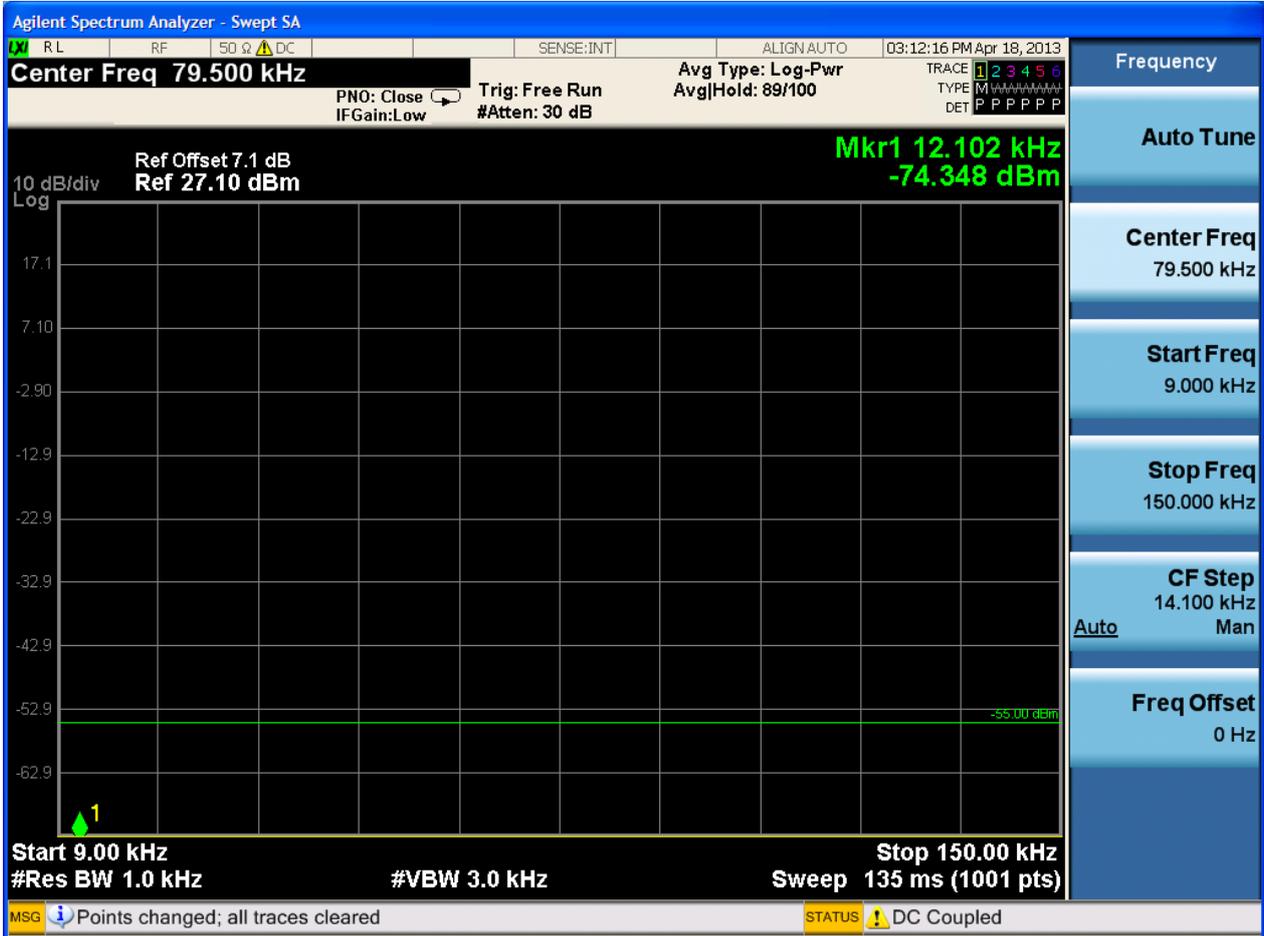


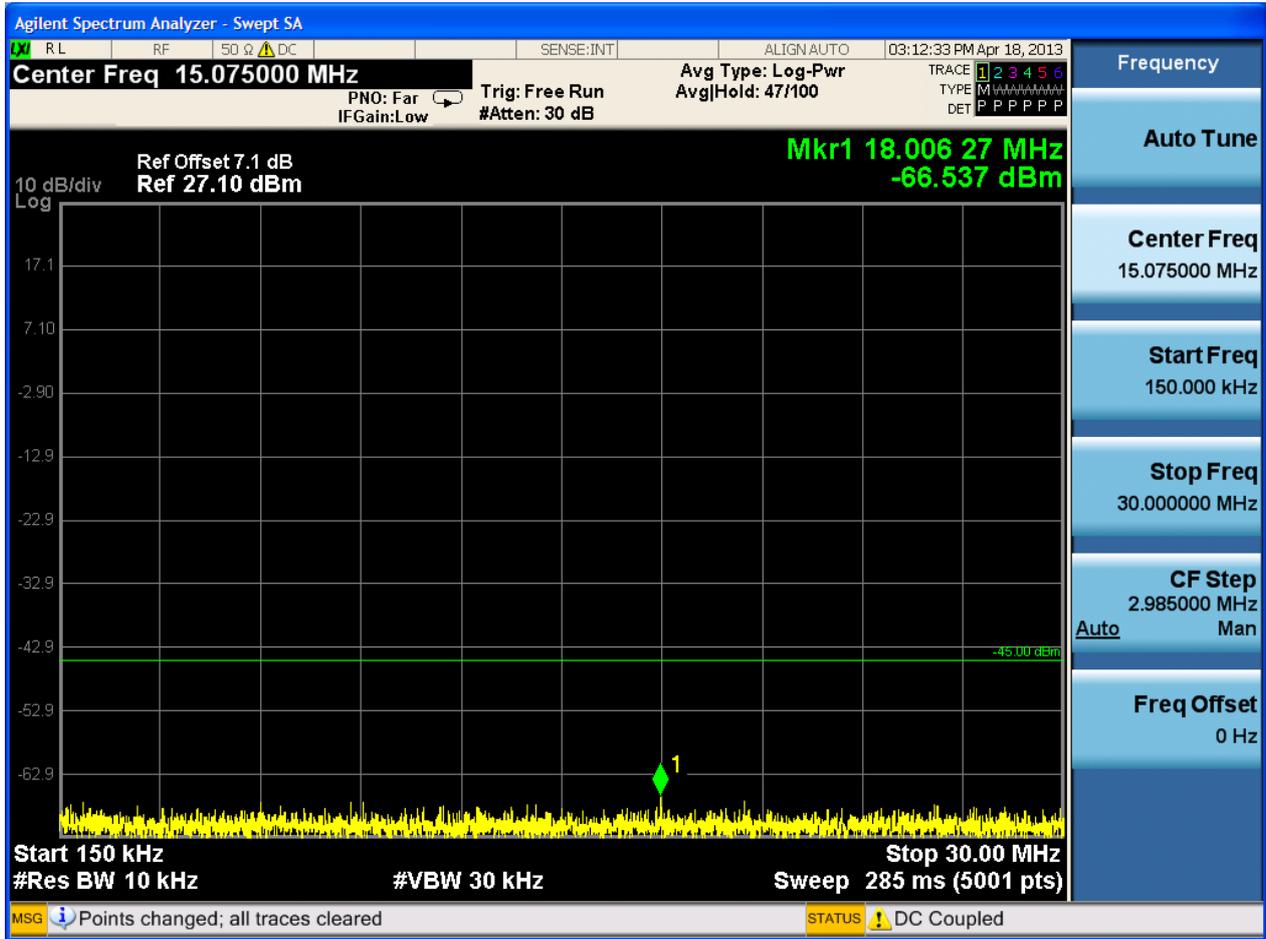


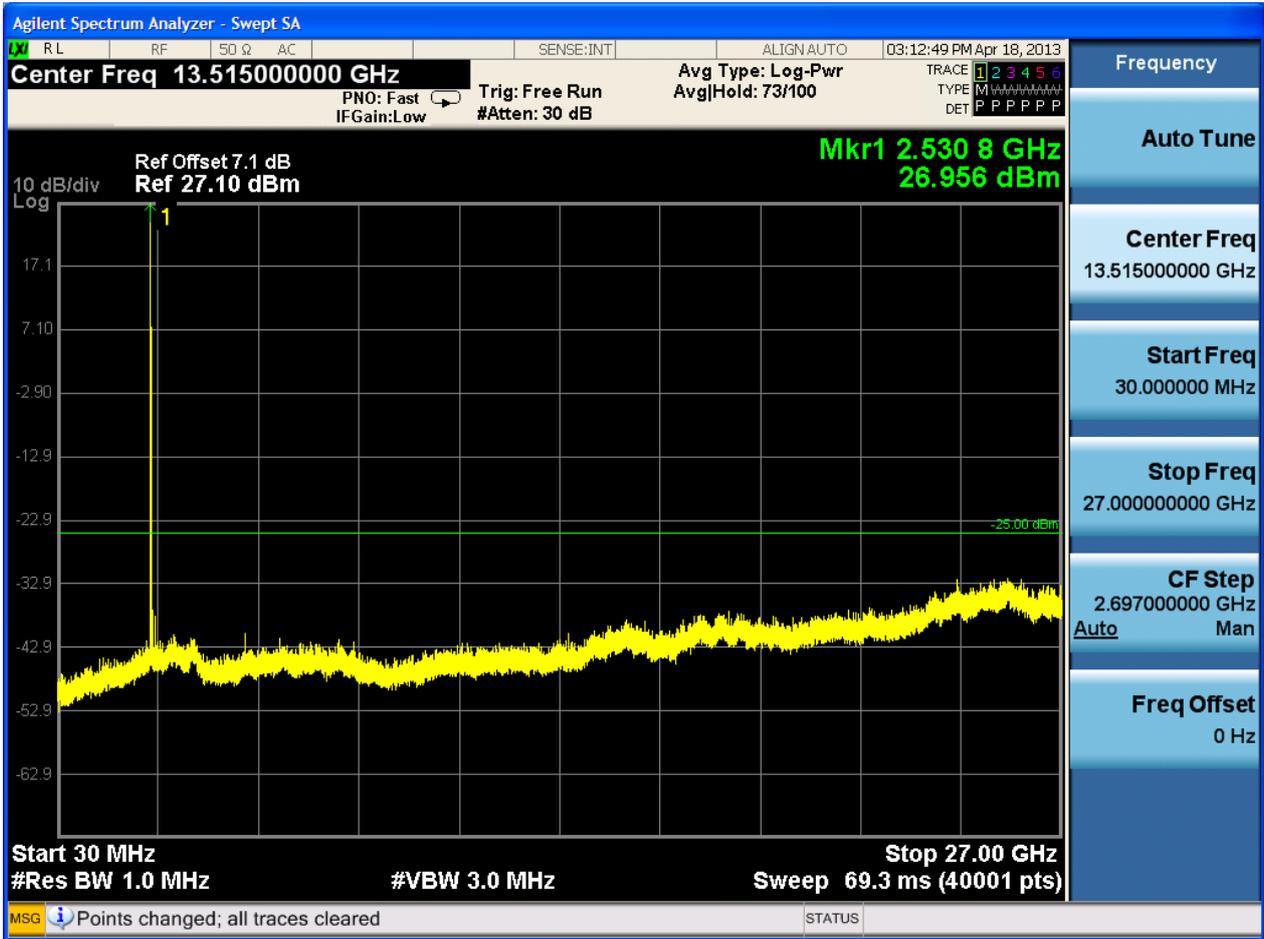


6.3.1.1.2.2 Test Channel = HCH

6.3.1.1.2.2.1 Test RB = RB1#0



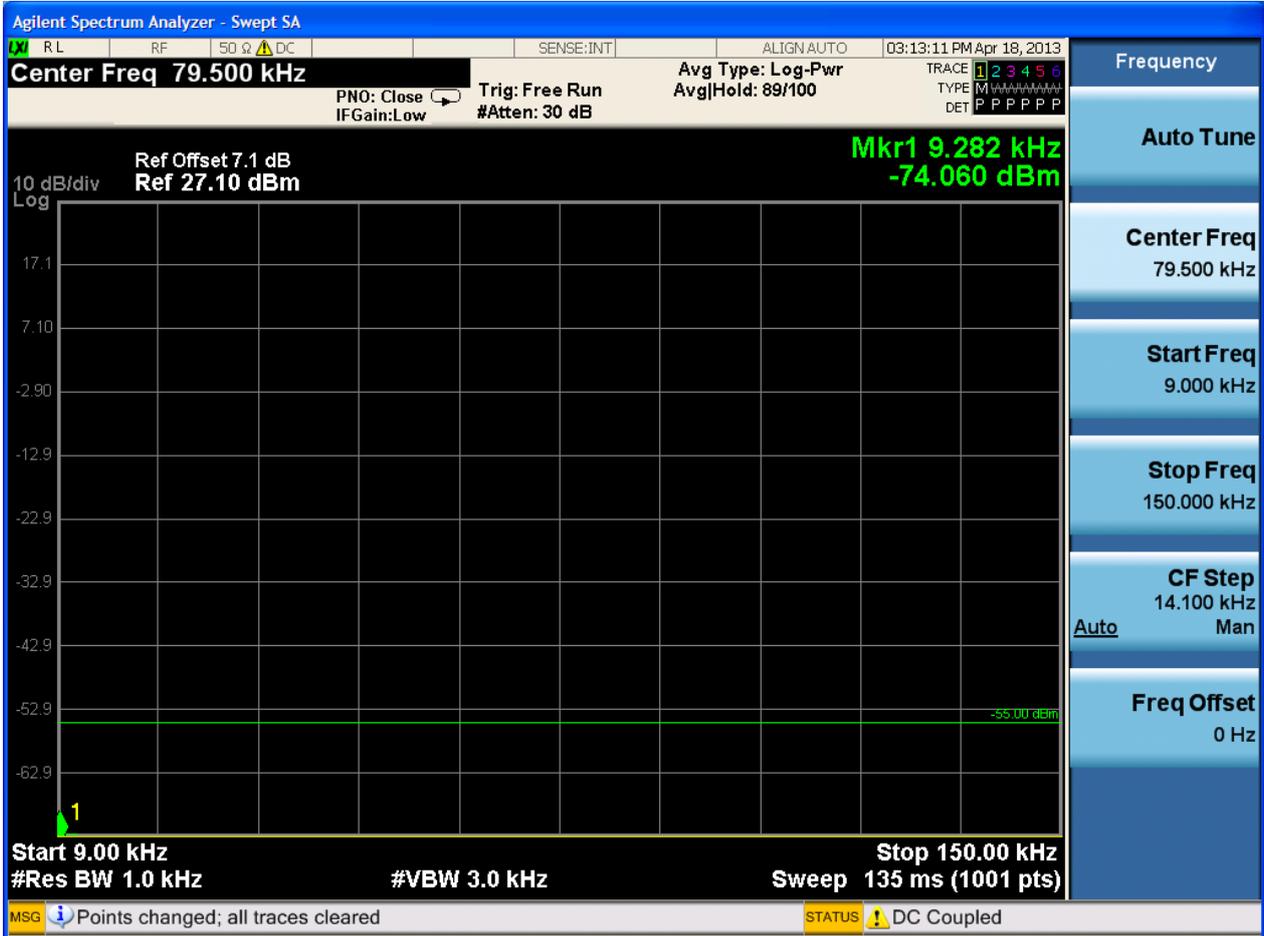


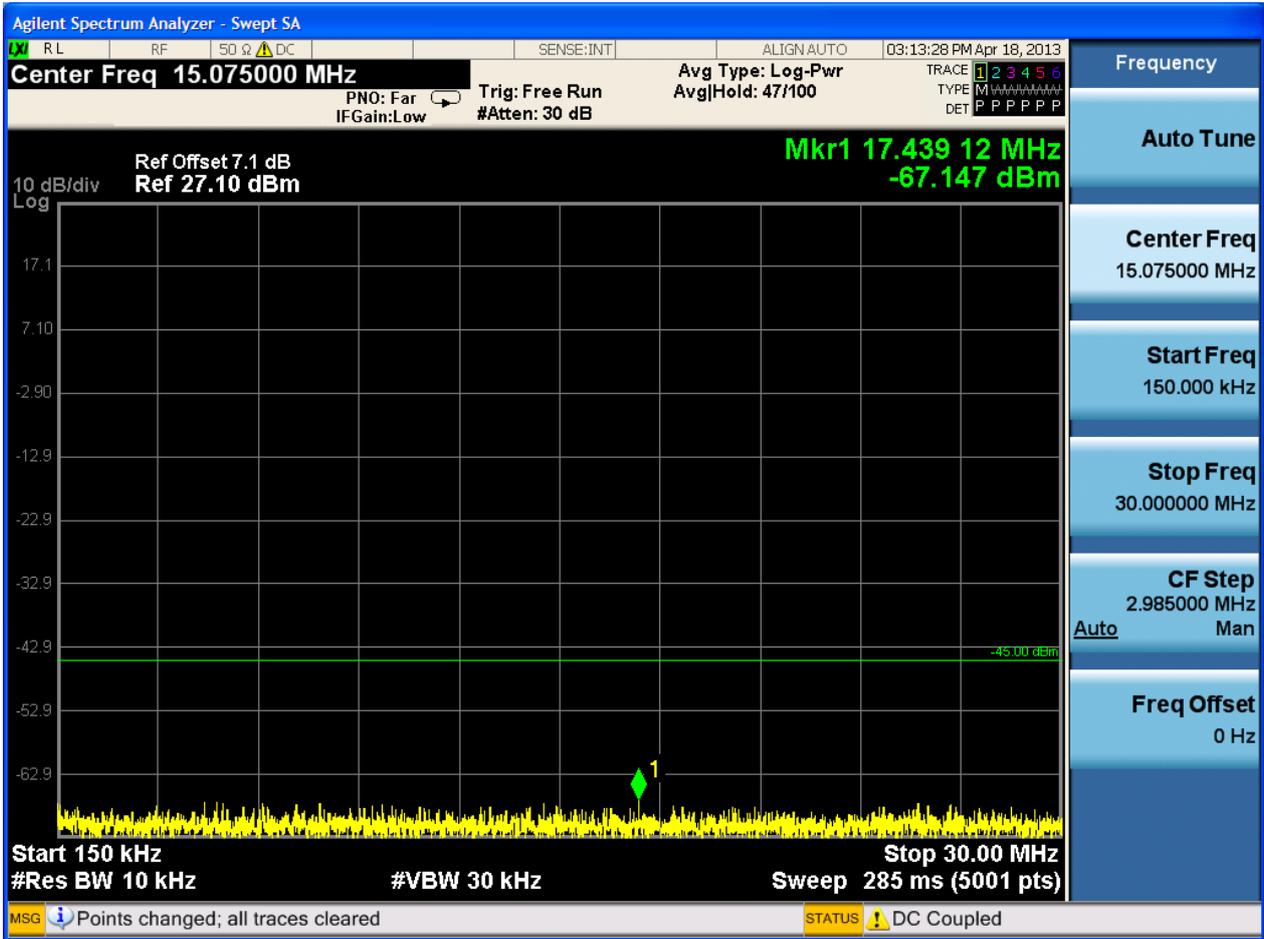




6.3.1.1.2.3 Test Channel = MCH

6.3.1.1.2.3.1 Test RB = RB1#0









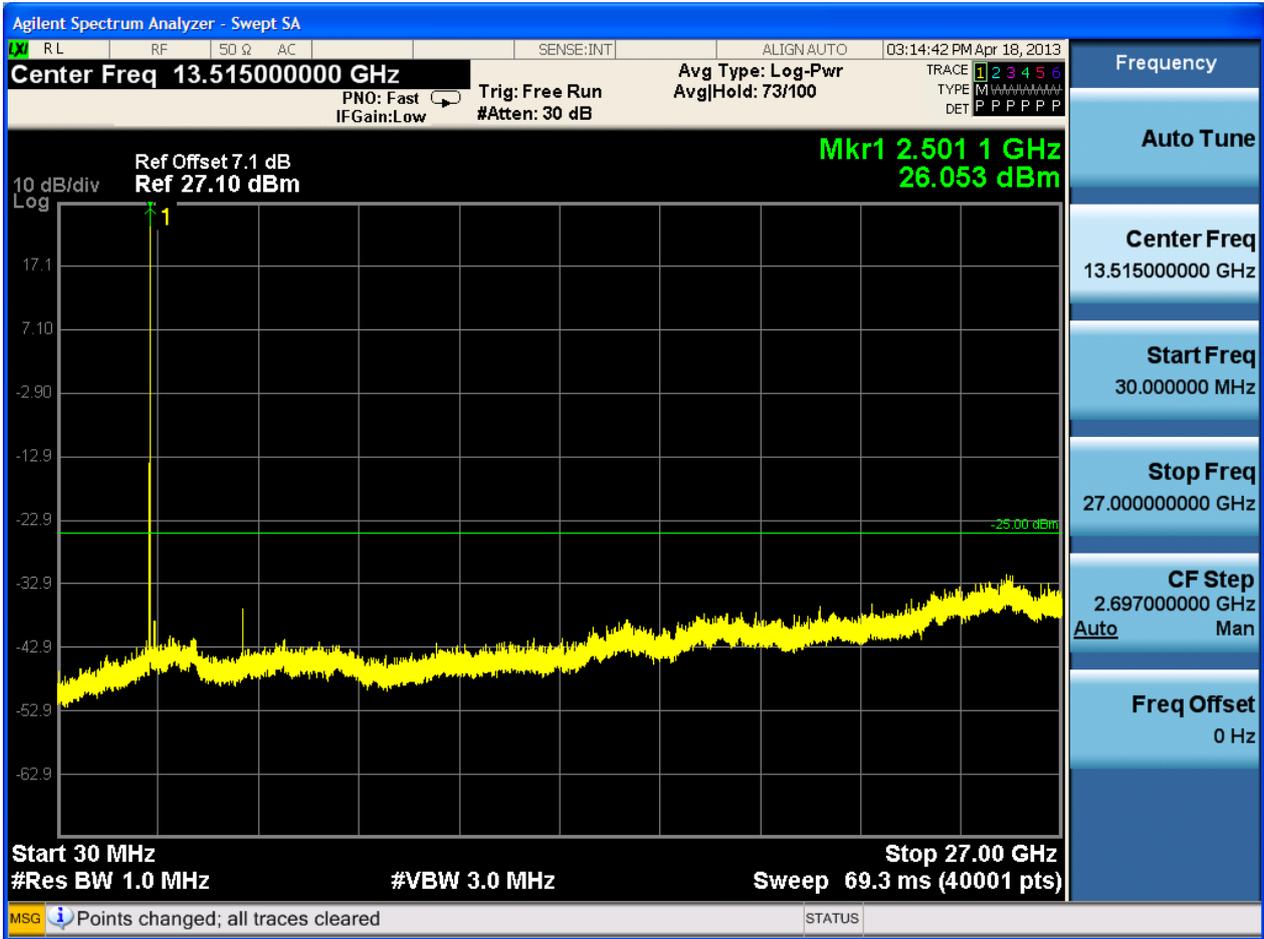
6.3.1.1.3 Test Bandwidth = 15

6.3.1.1.3.1 Test Channel = LCH

6.3.1.1.3.1.1 Test RB = RB1#0



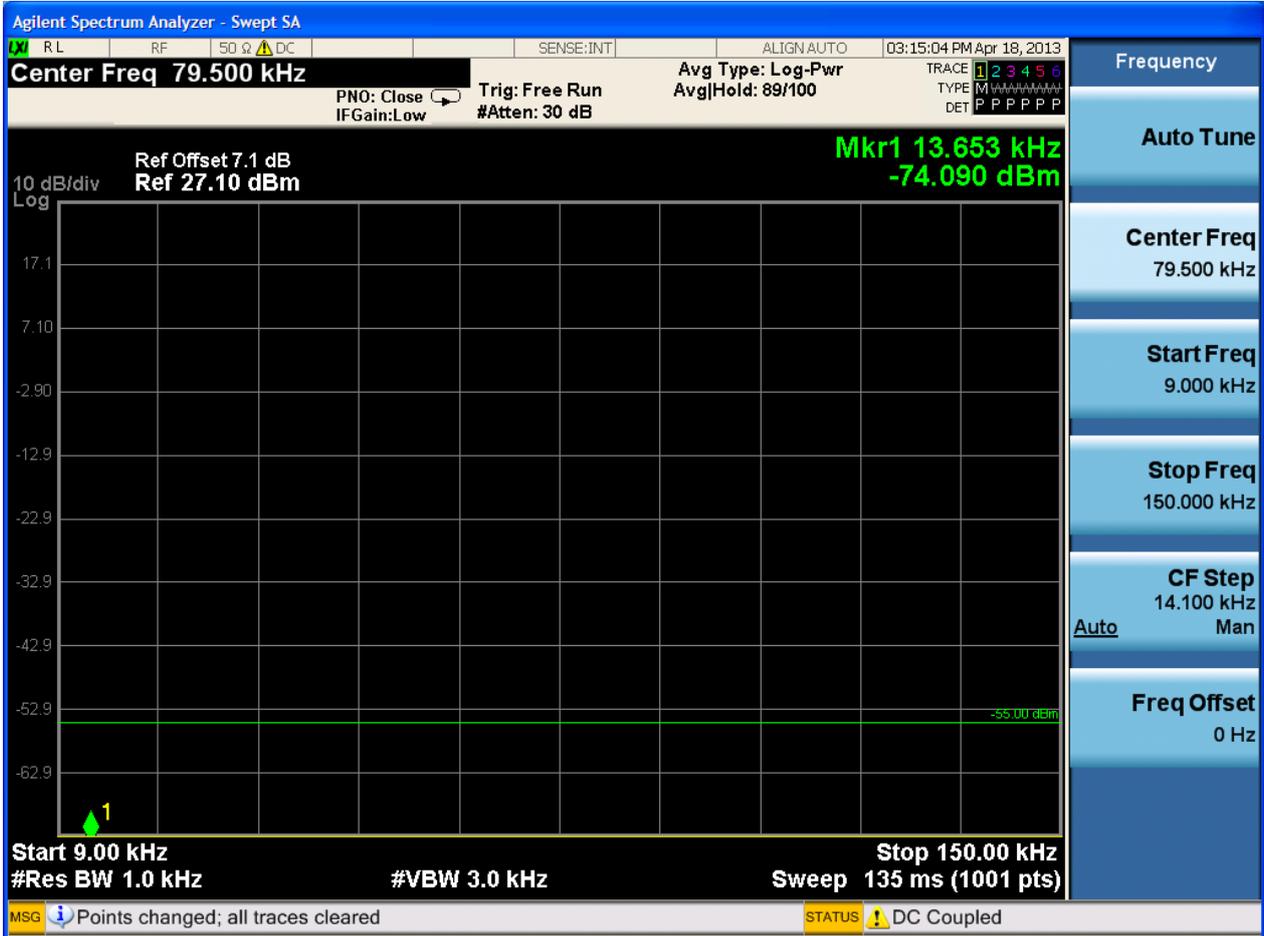


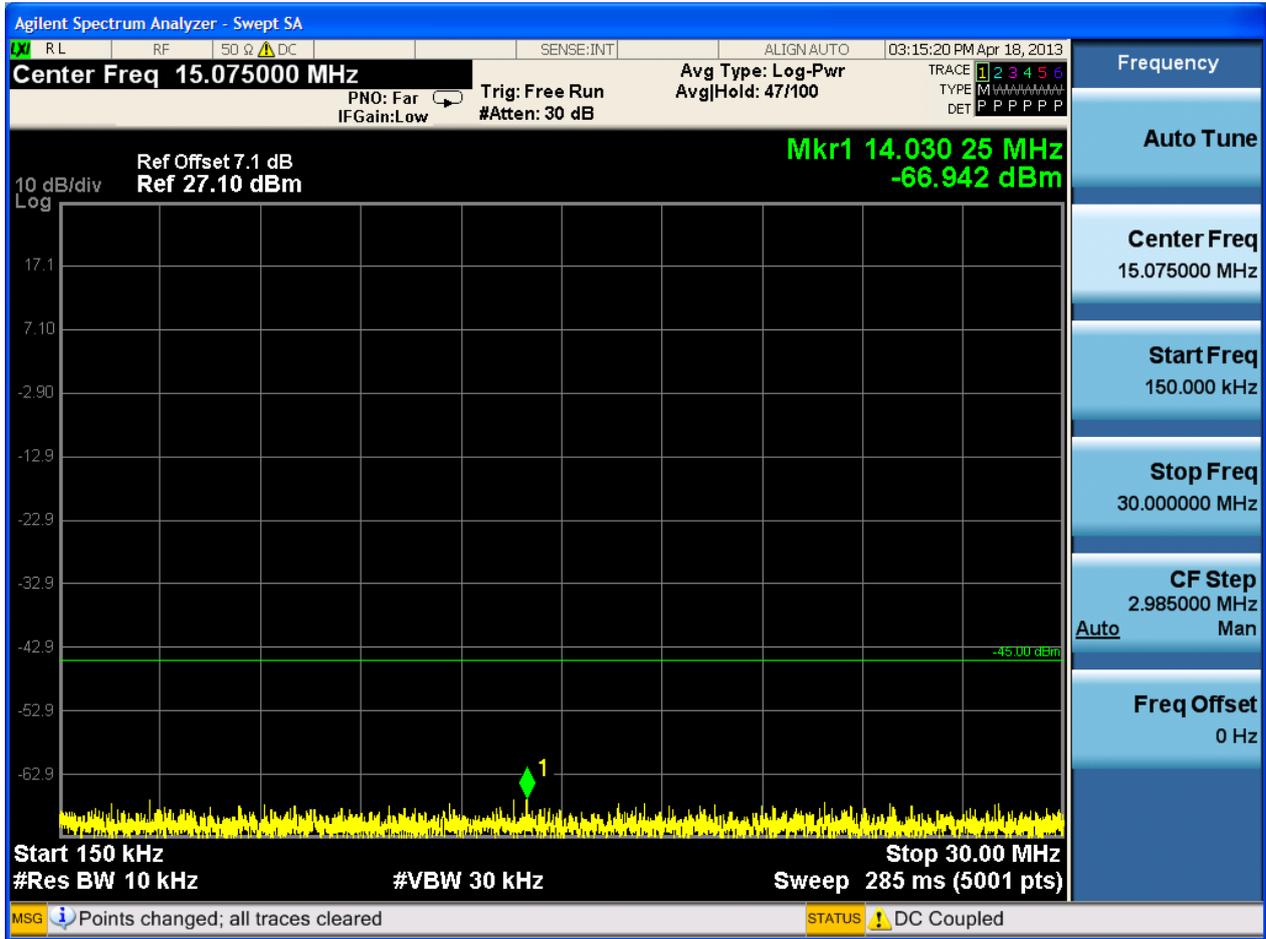


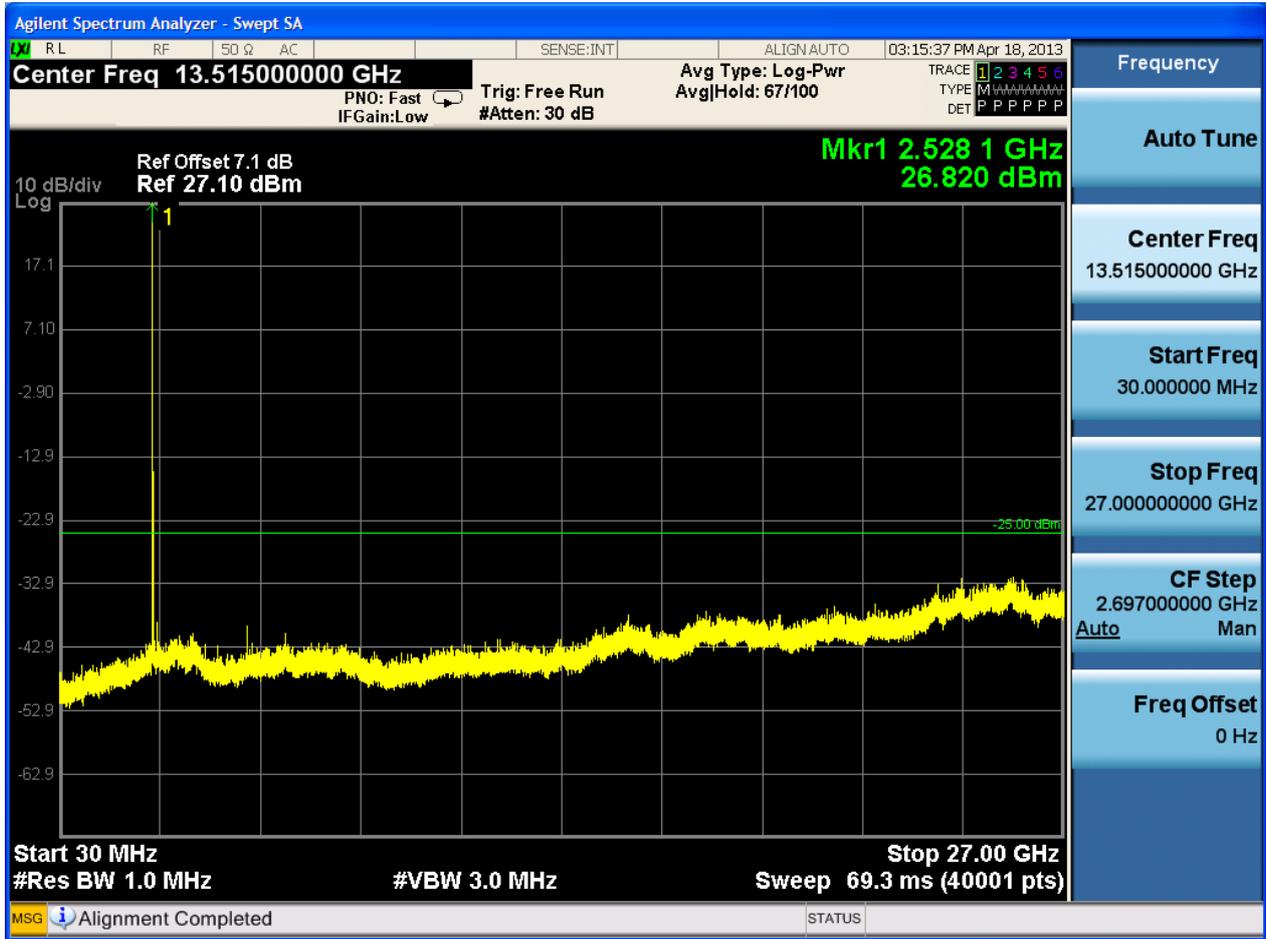


6.3.1.1.3.2 Test Channel = HCH

6.3.1.1.3.2.1 Test RB = RB1#0



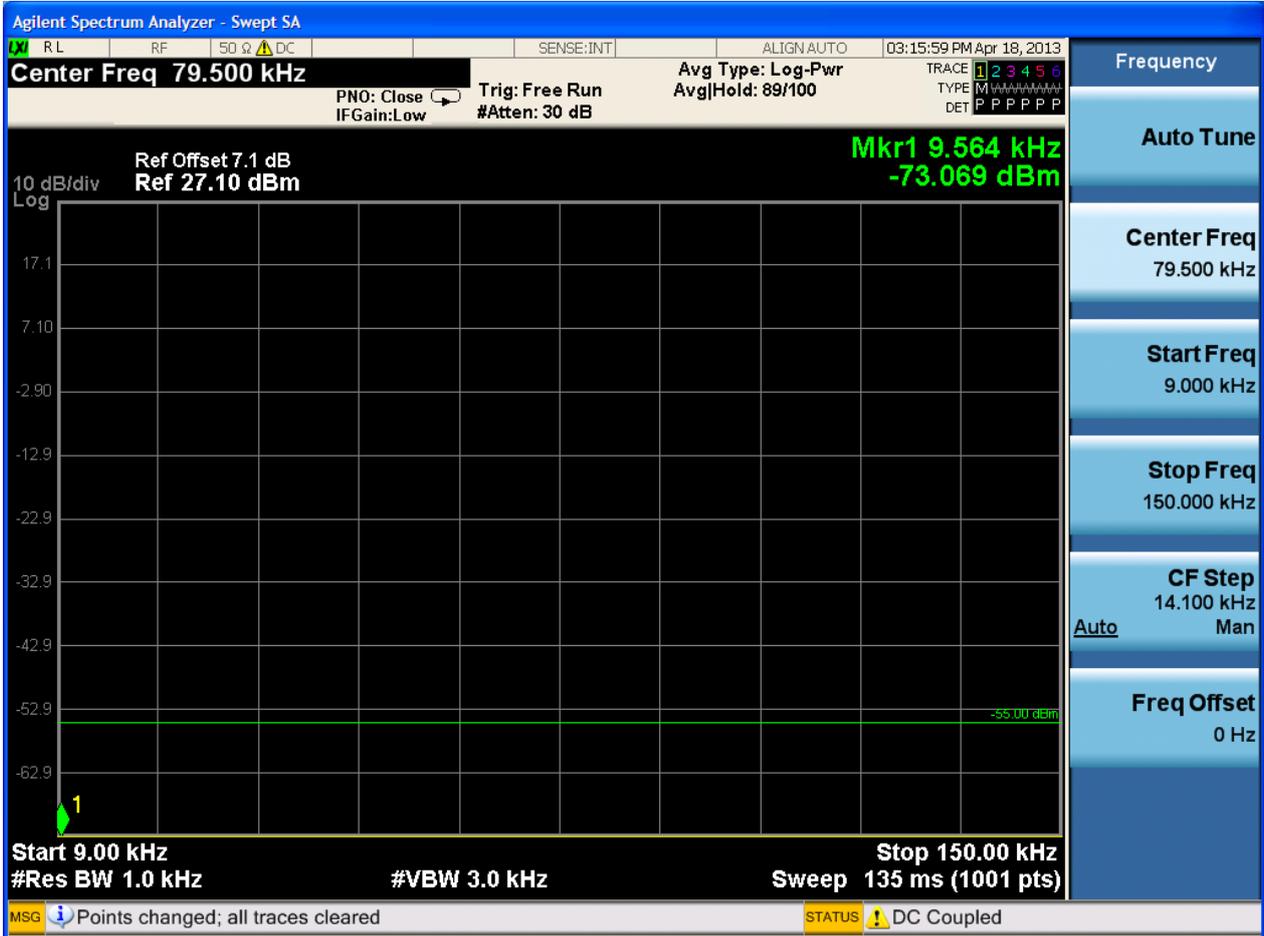


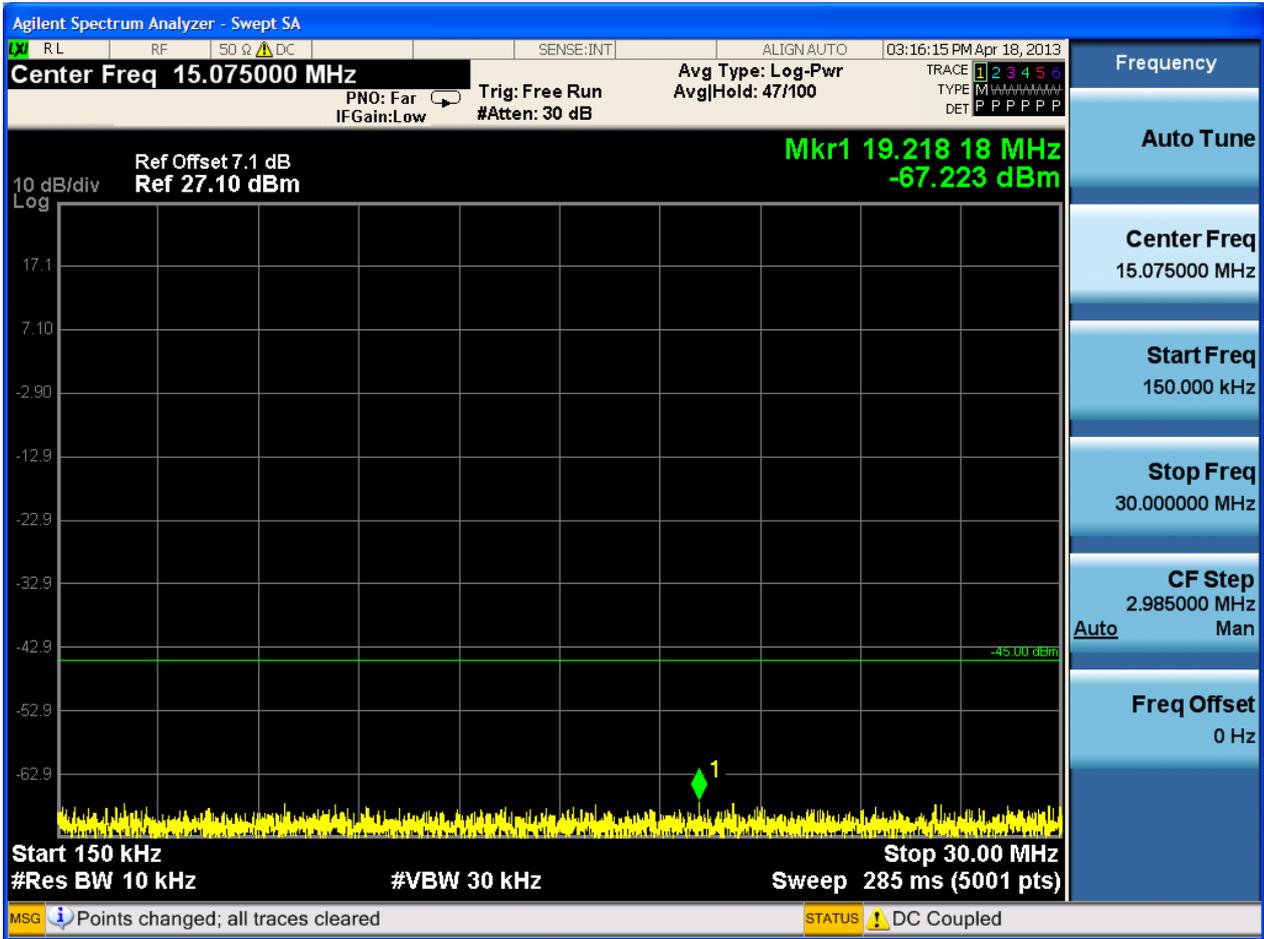


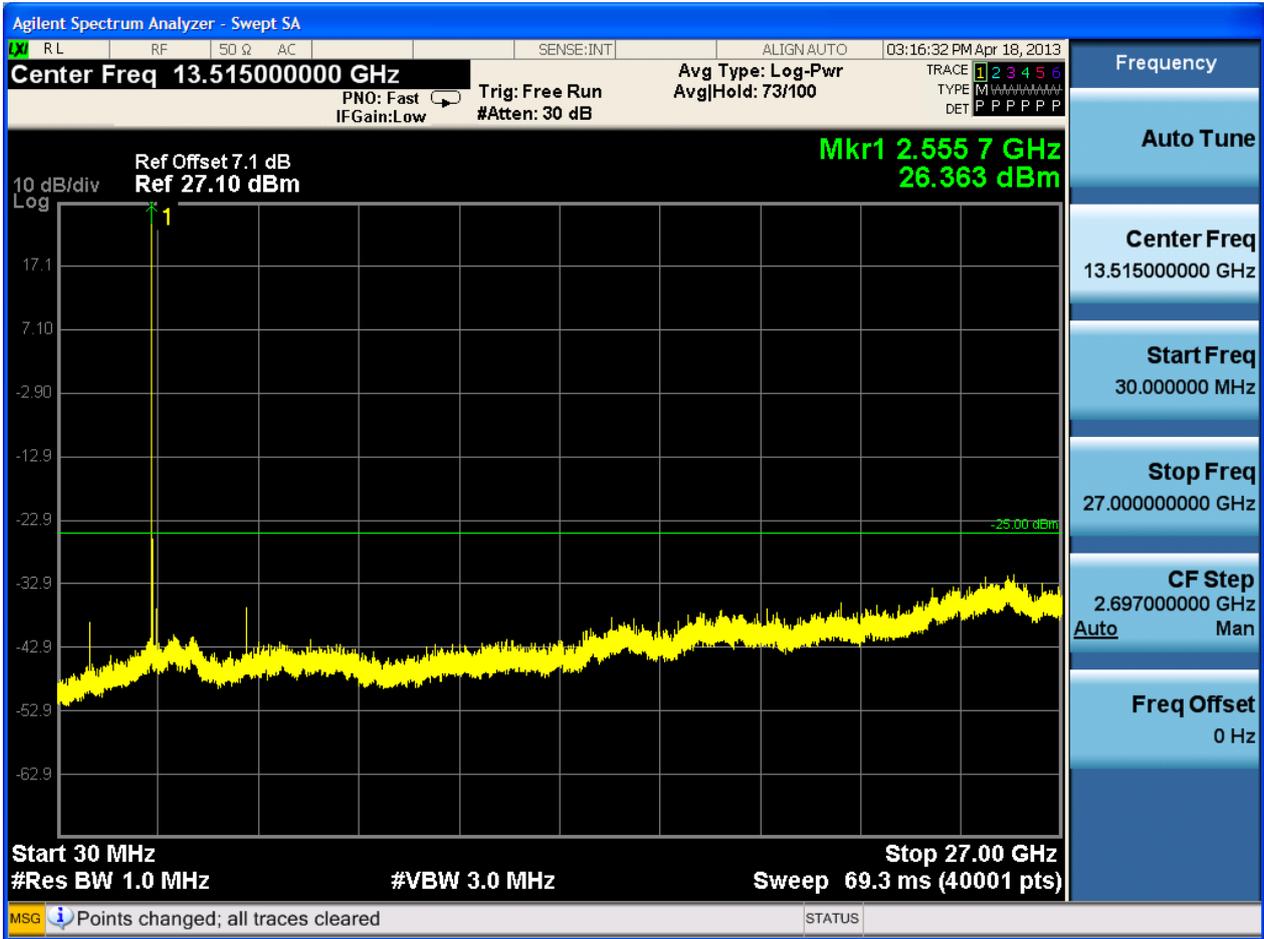


6.3.1.1.3.3 Test Channel = MCH

6.3.1.1.3.3.1 Test RB = RB1#0









6.3.1.1.4 Test Bandwidth = 20

6.3.1.1.4.1 Test Channel = LCH

6.3.1.1.4.1.1 Test RB = RB1#0



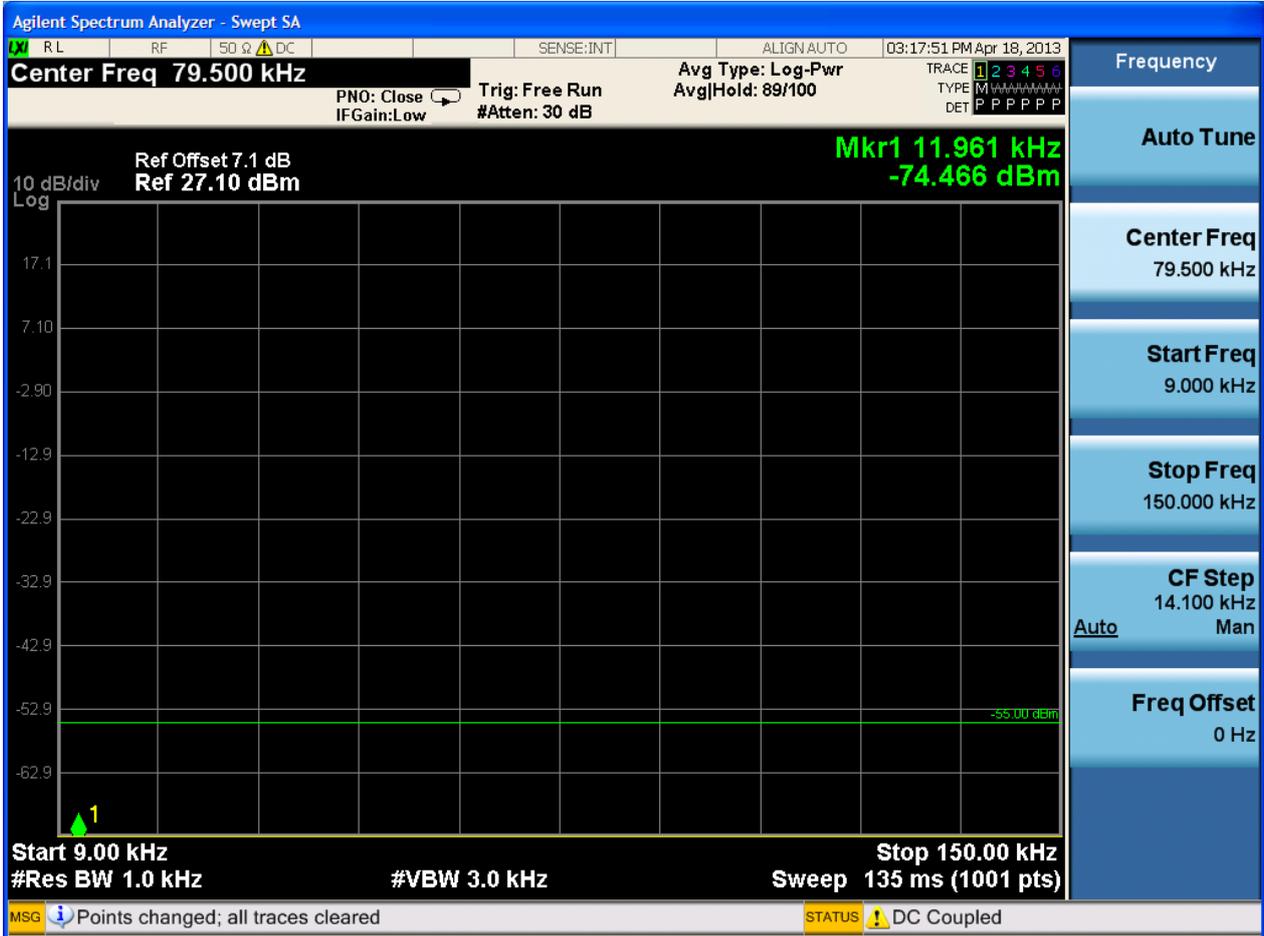




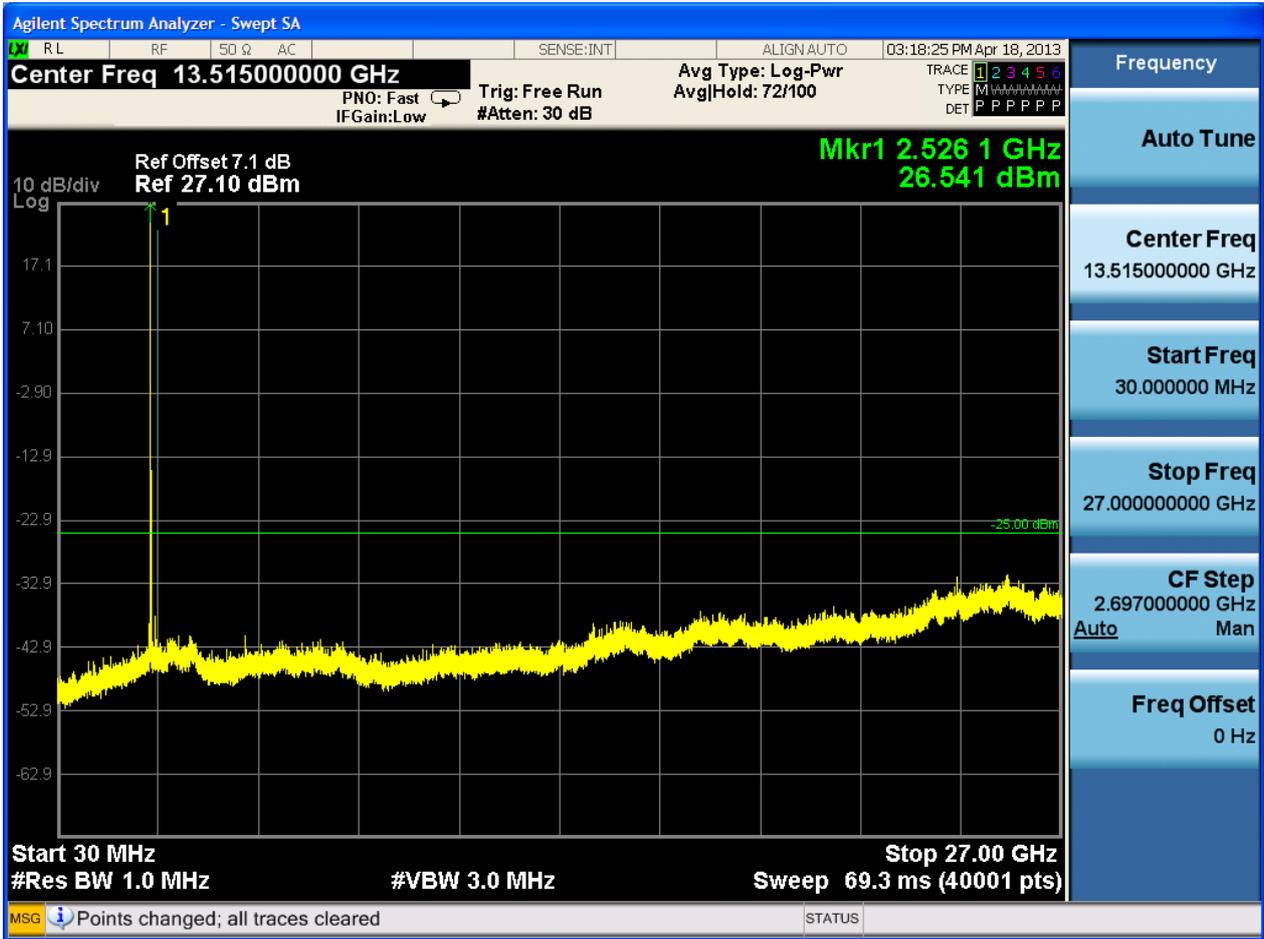


6.3.1.1.4.2 Test Channel = HCH

6.3.1.1.4.2.1 Test RB = RB1#0









6.3.1.1.4.3 Test Channel = MCH

6.3.1.1.4.3.1 Test RB = RB1#0





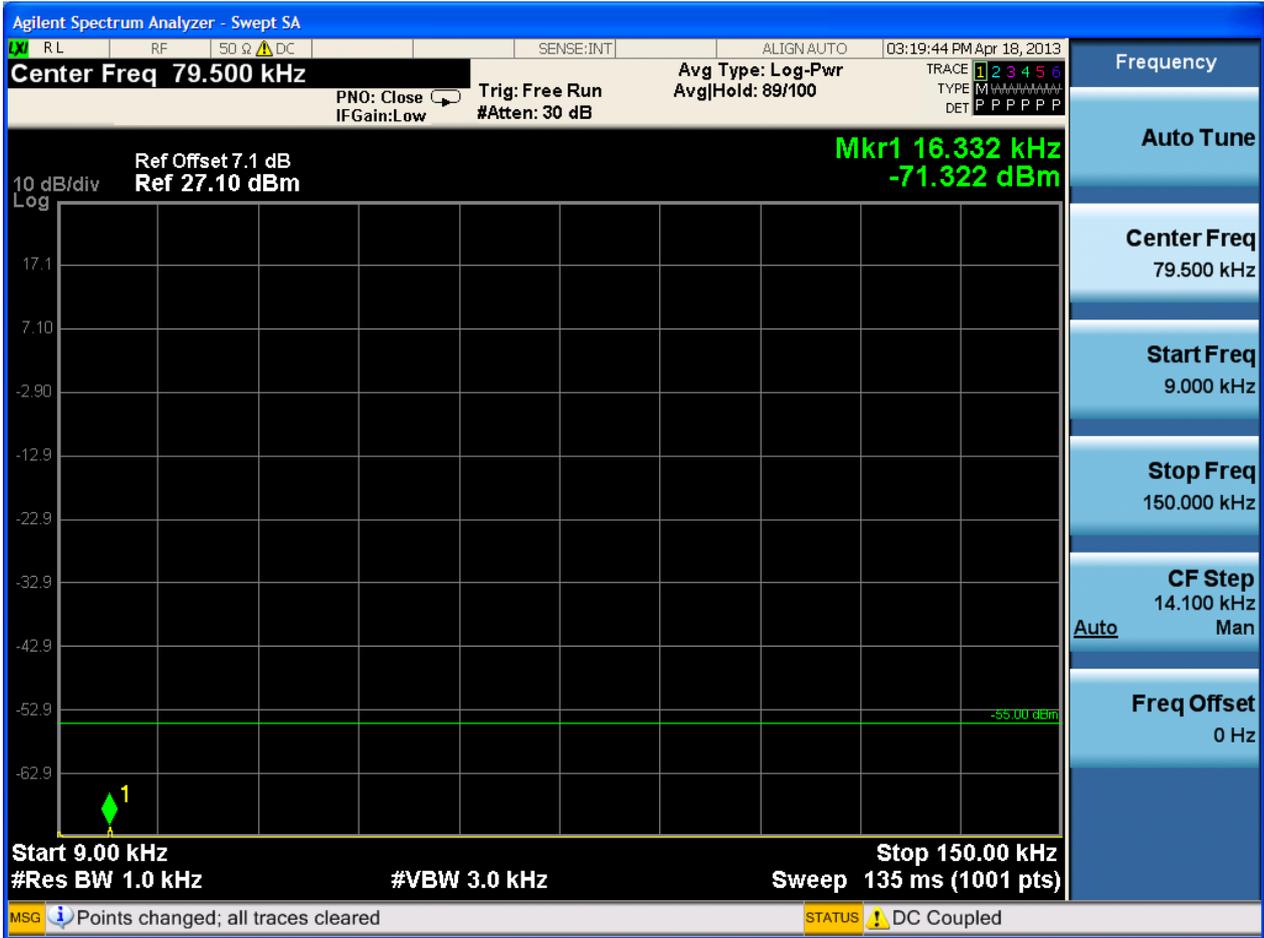


6.3.1.2 Test Mode = LTE/TM2

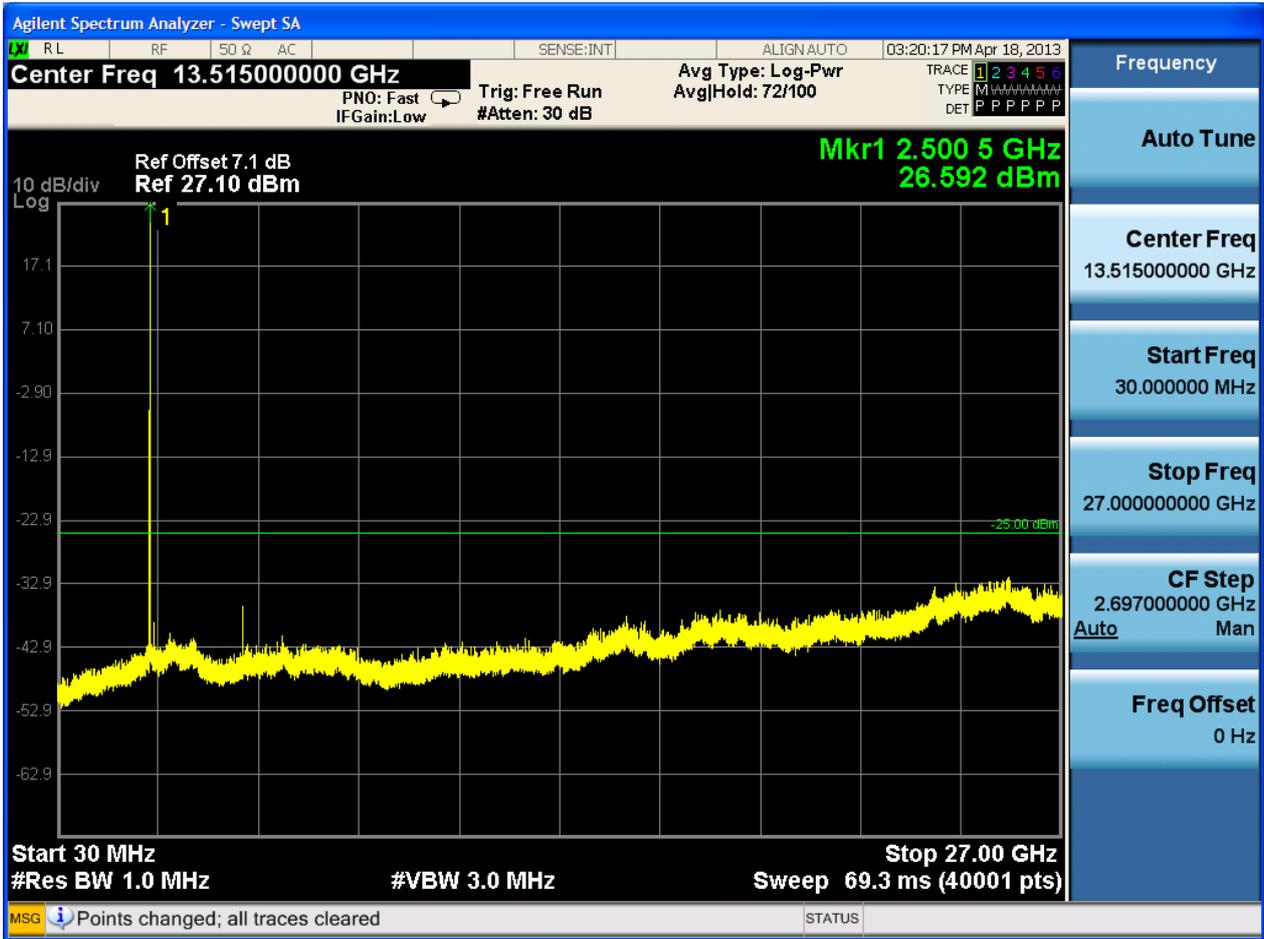
6.3.1.2.1 Test Bandwidth = 5

6.3.1.2.1.1 Test Channel = LCH

6.3.1.2.1.1.1 Test RB = RB1#0



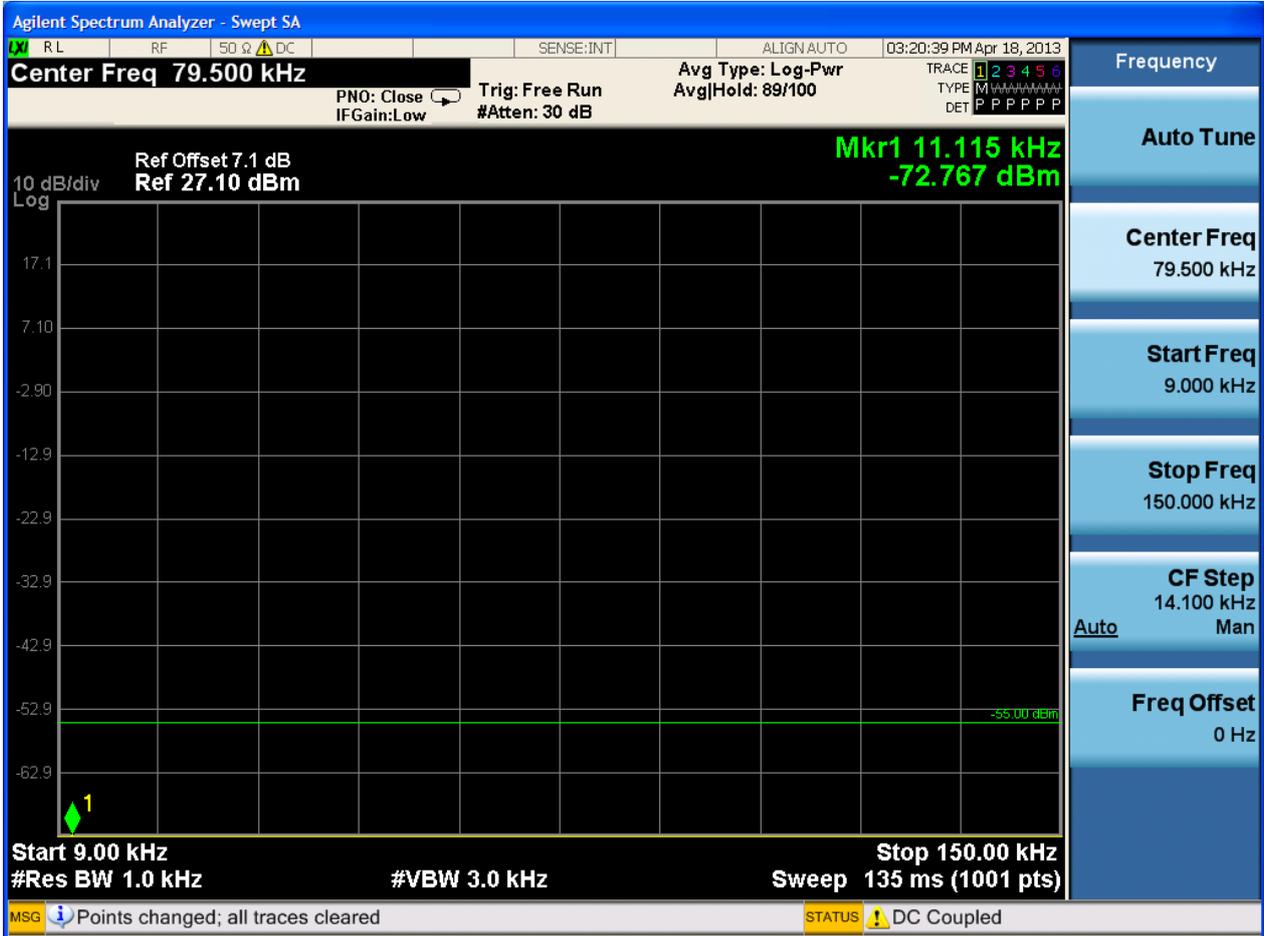




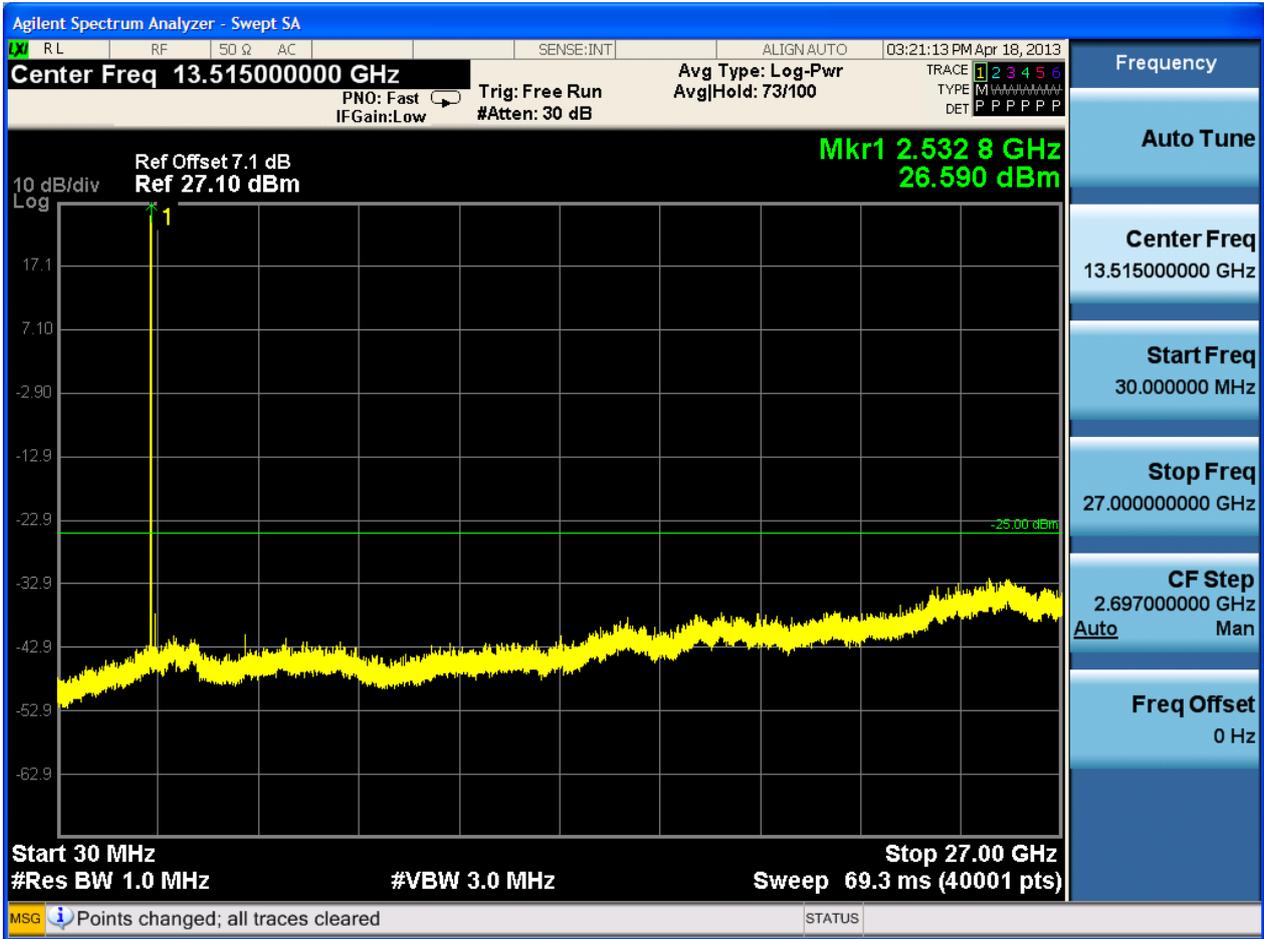


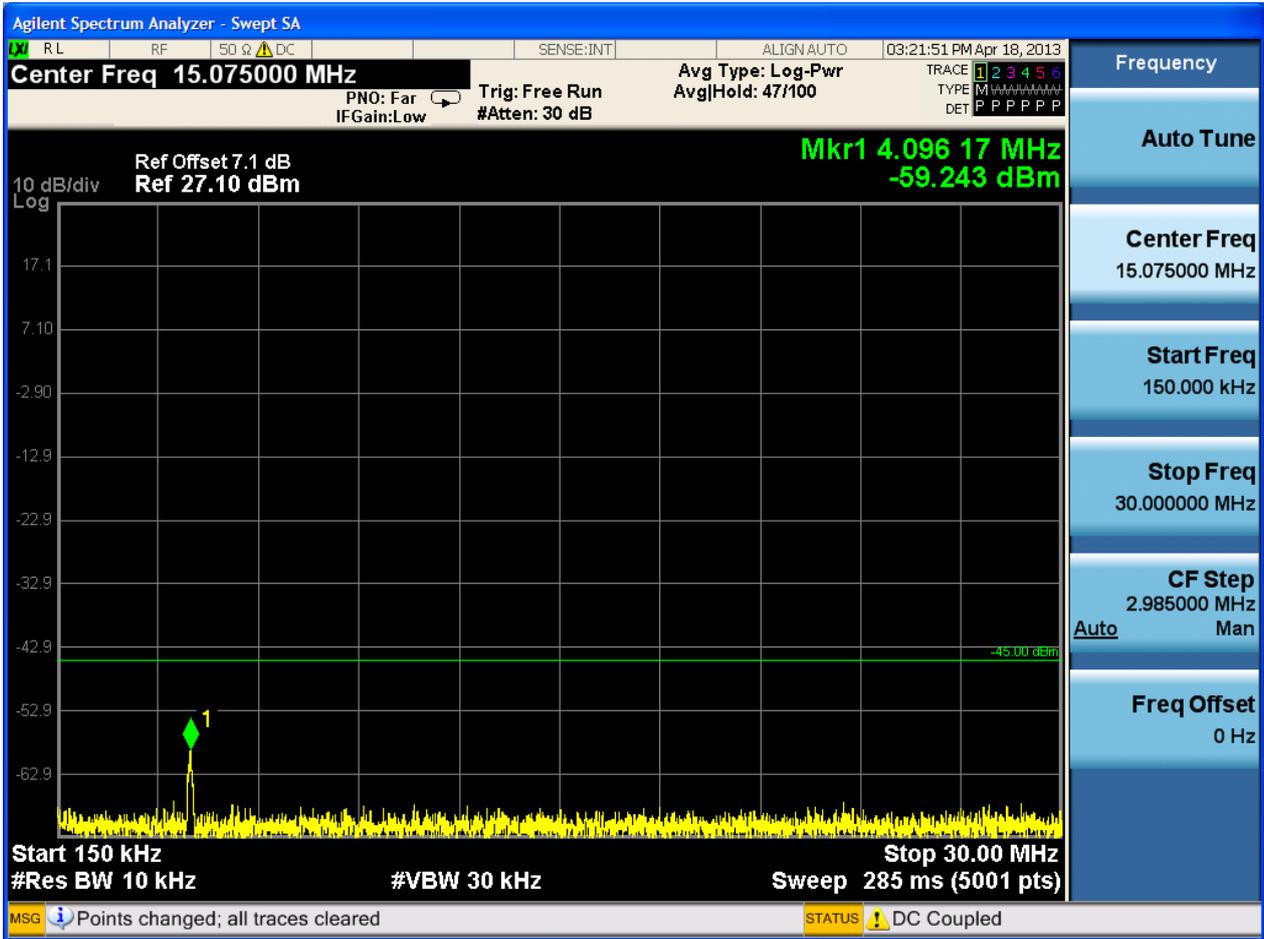
6.3.1.2.1.2 Test Channel = HCH

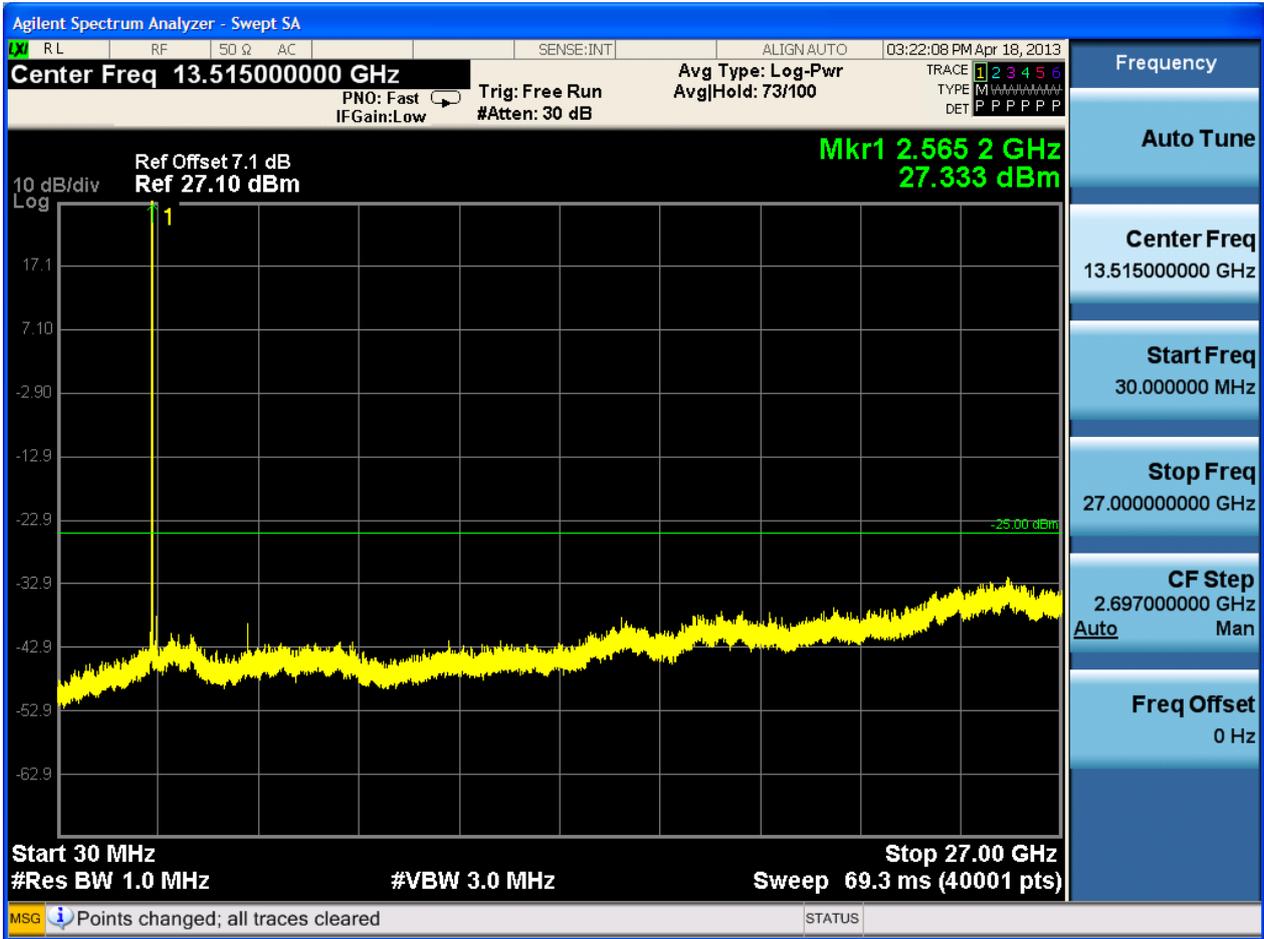
6.3.1.2.1.2.1 Test RB = RB1#0











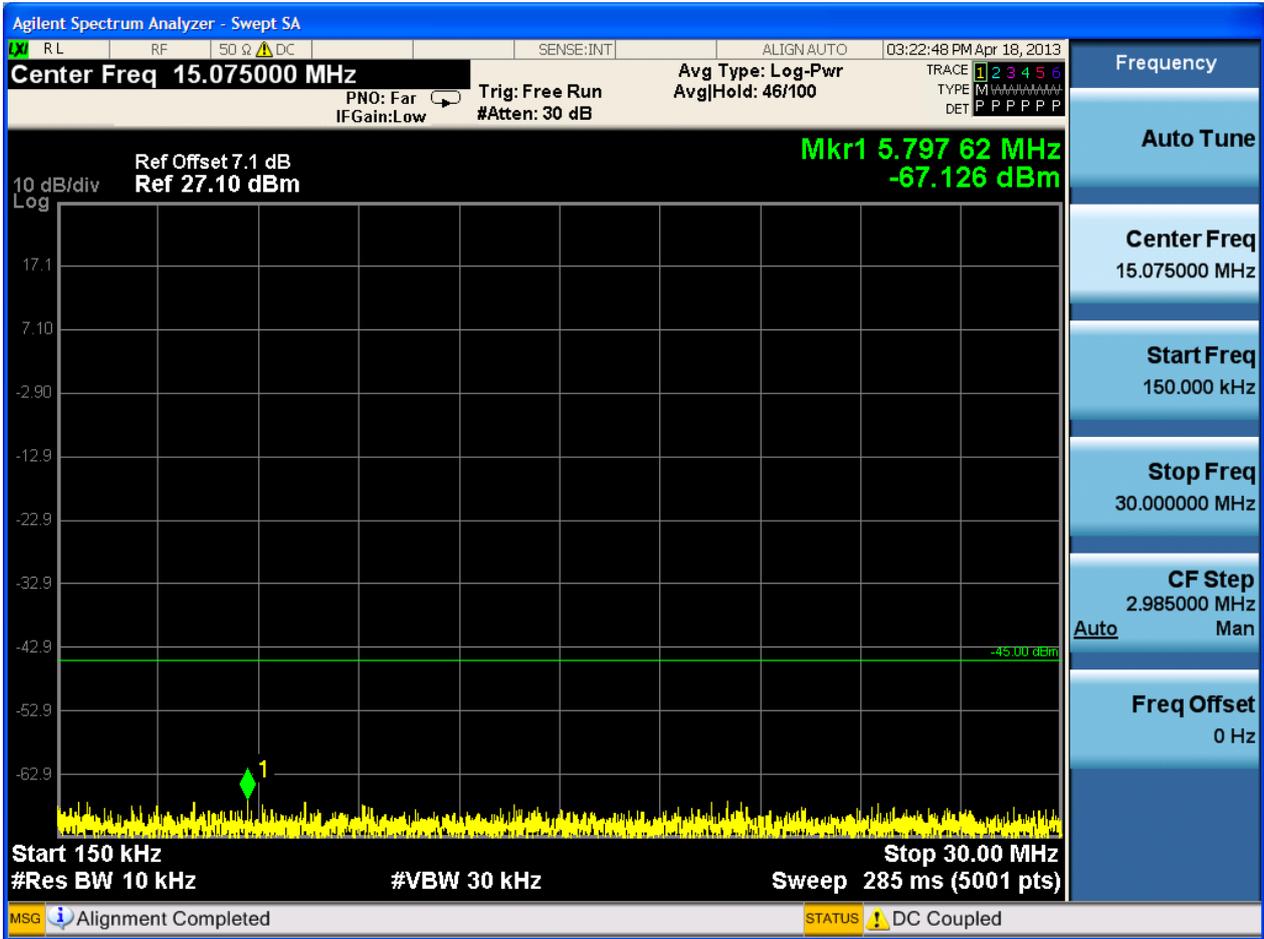


6.3.1.2.2 Test Bandwidth = 10

6.3.1.2.2.1 Test Channel = LCH

6.3.1.2.2.1.1 Test RB = RB1#0





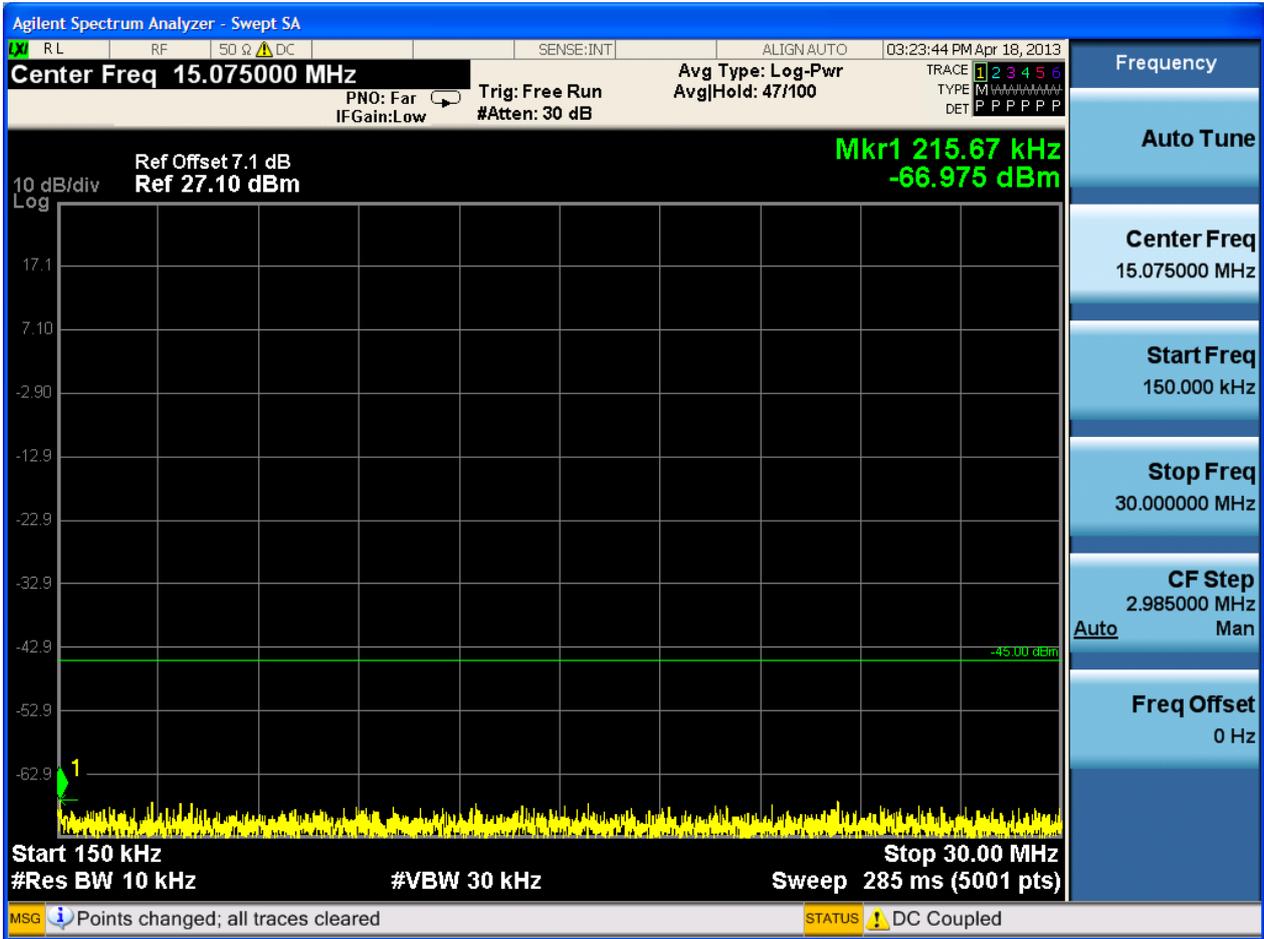




6.3.1.2.2.2 Test Channel = HCH

6.3.1.2.2.2.1 Test RB = RB1#0



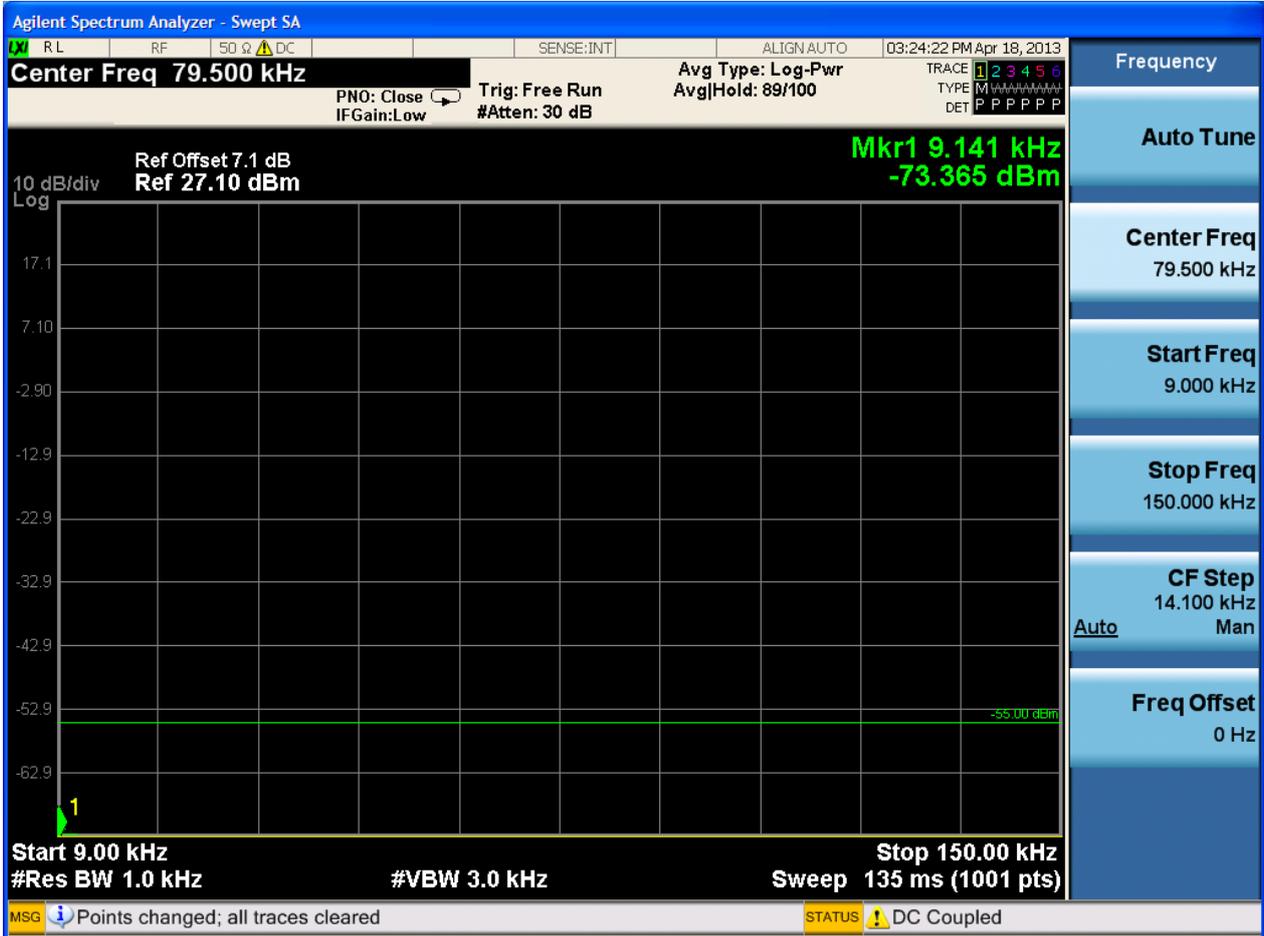


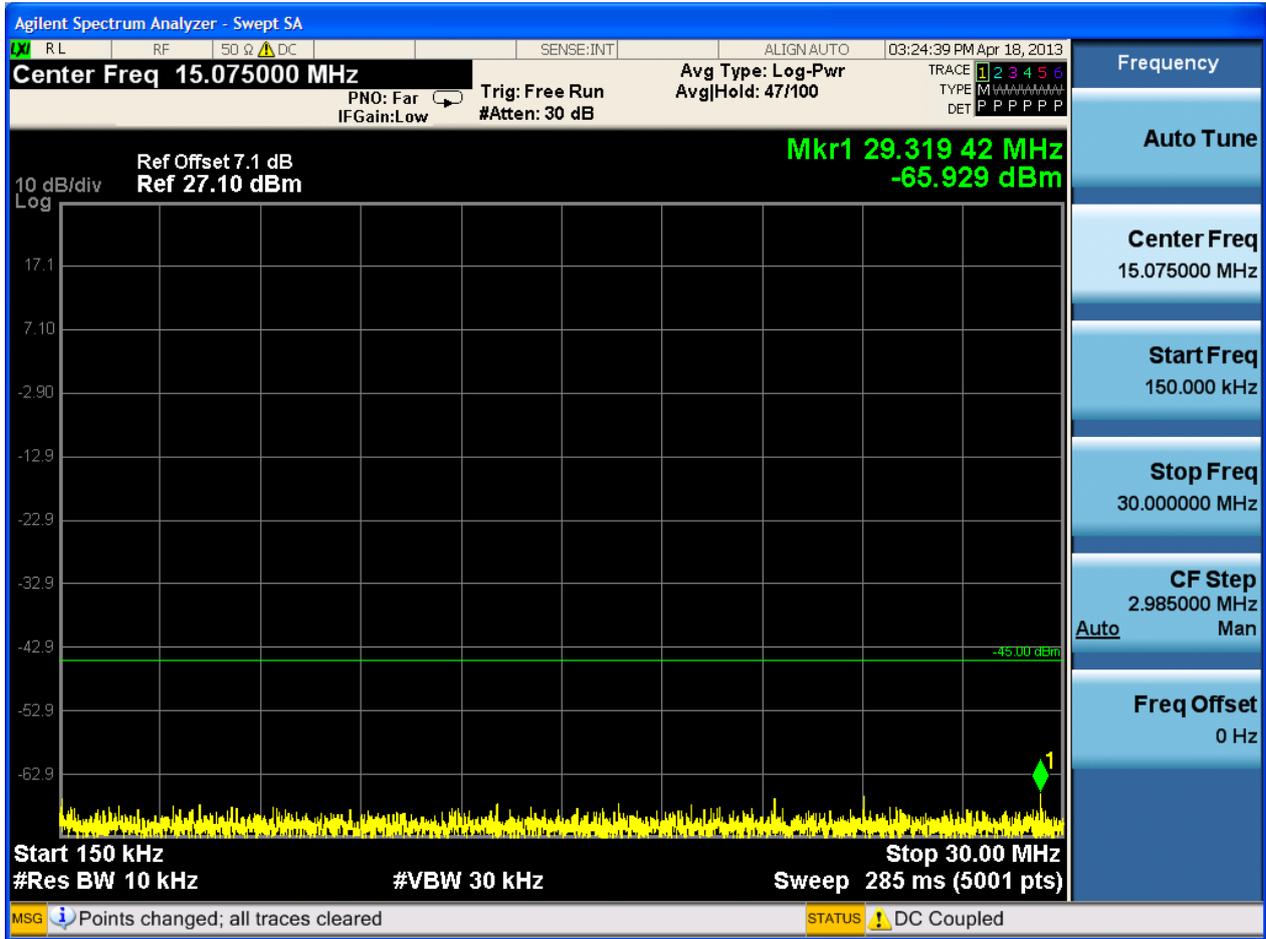


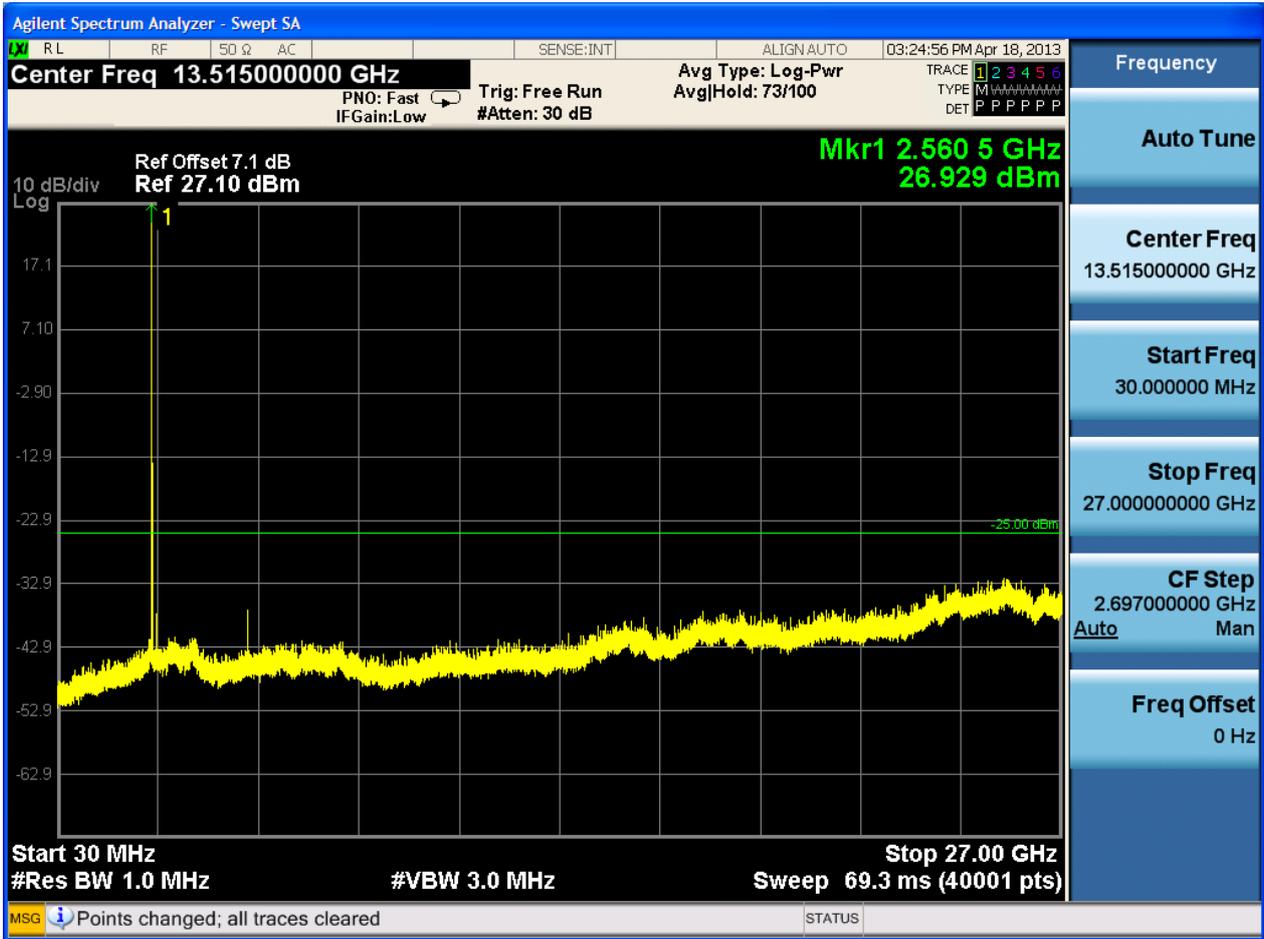


6.3.1.2.2.3 Test Channel = MCH

6.3.1.2.2.3.1 Test RB = RB1#0





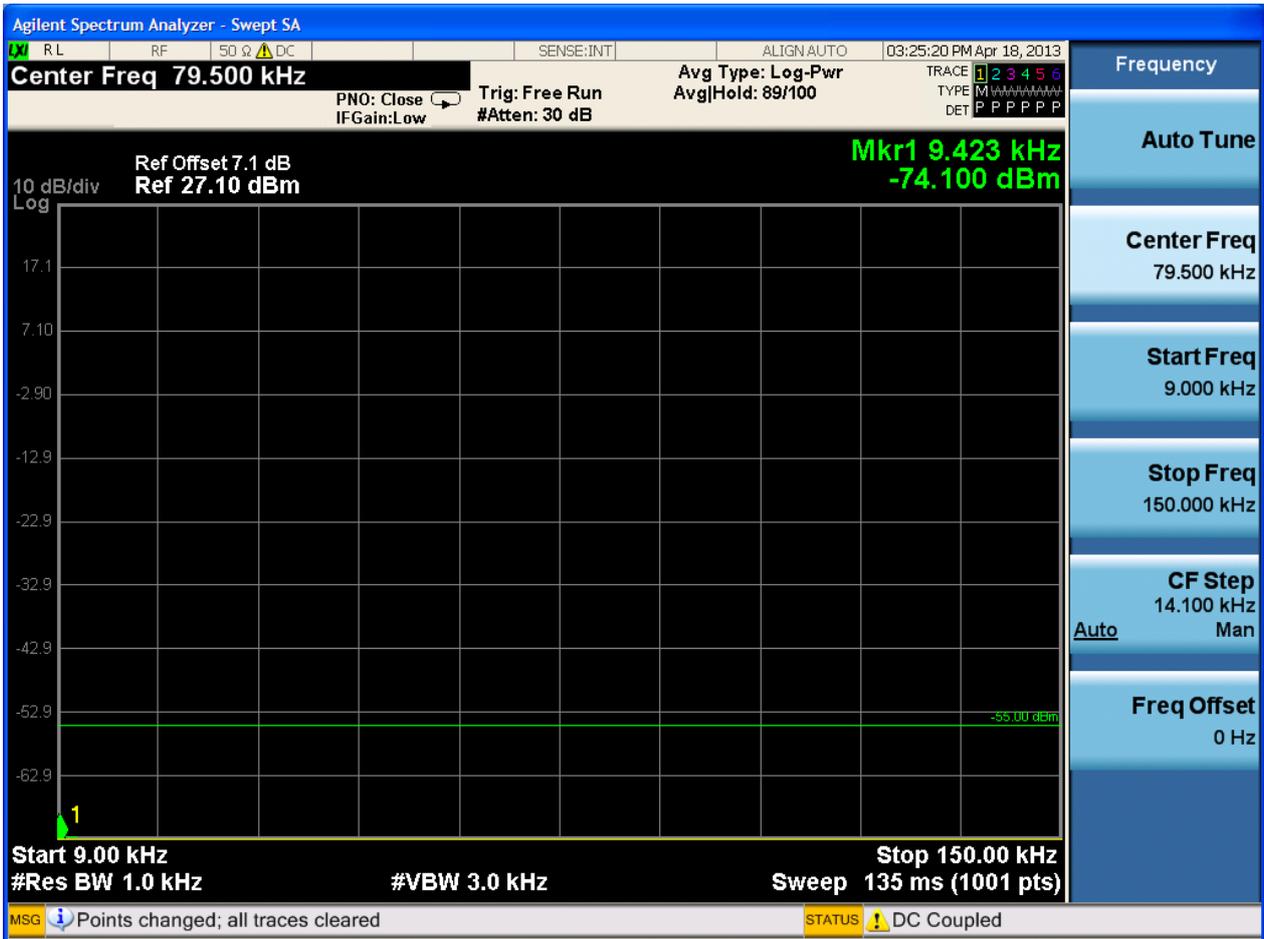


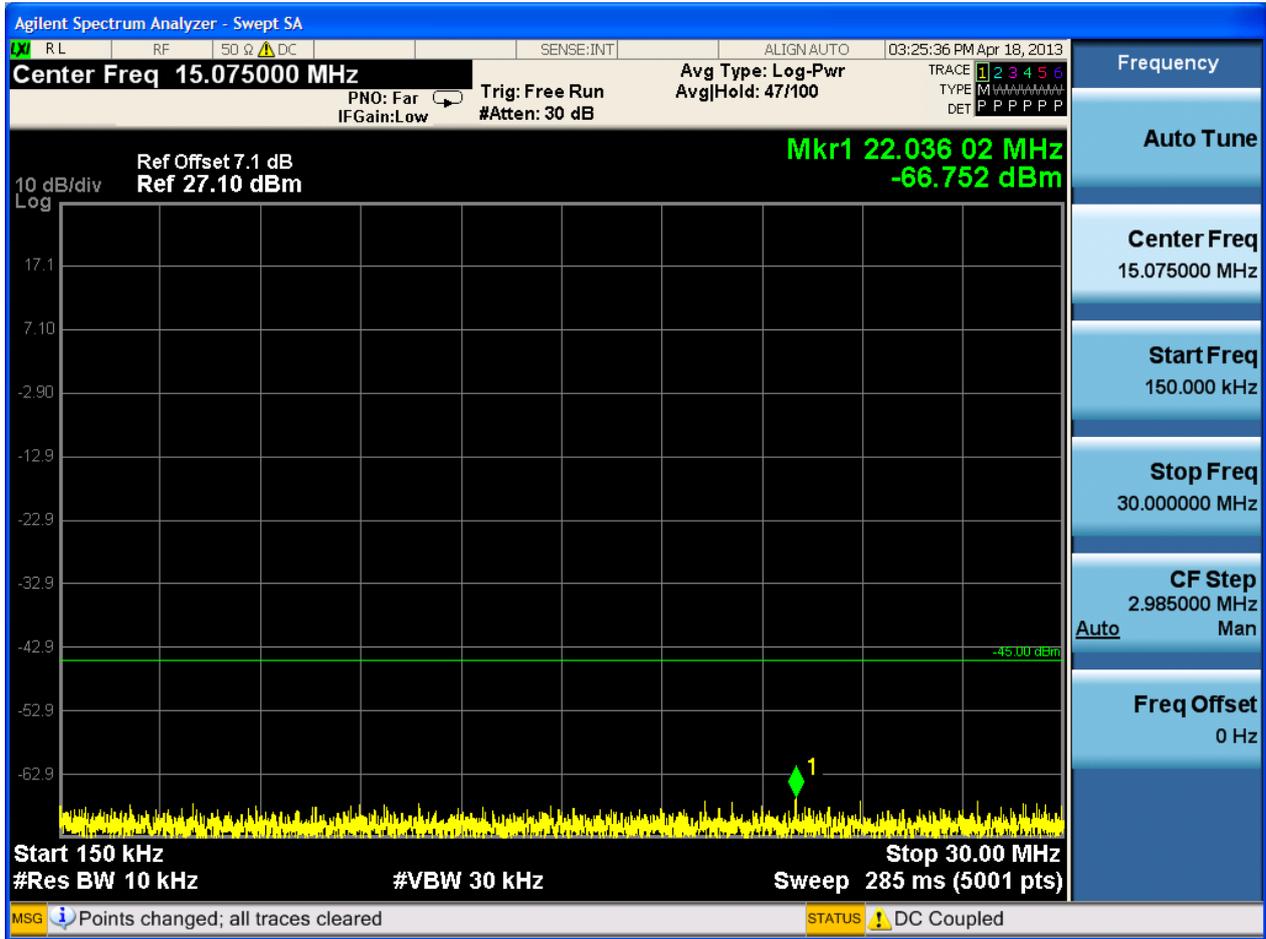


6.3.1.2.3 Test Bandwidth = 15

6.3.1.2.3.1 Test Channel = LCH

6.3.1.2.3.1.1 Test RB = RB1#0



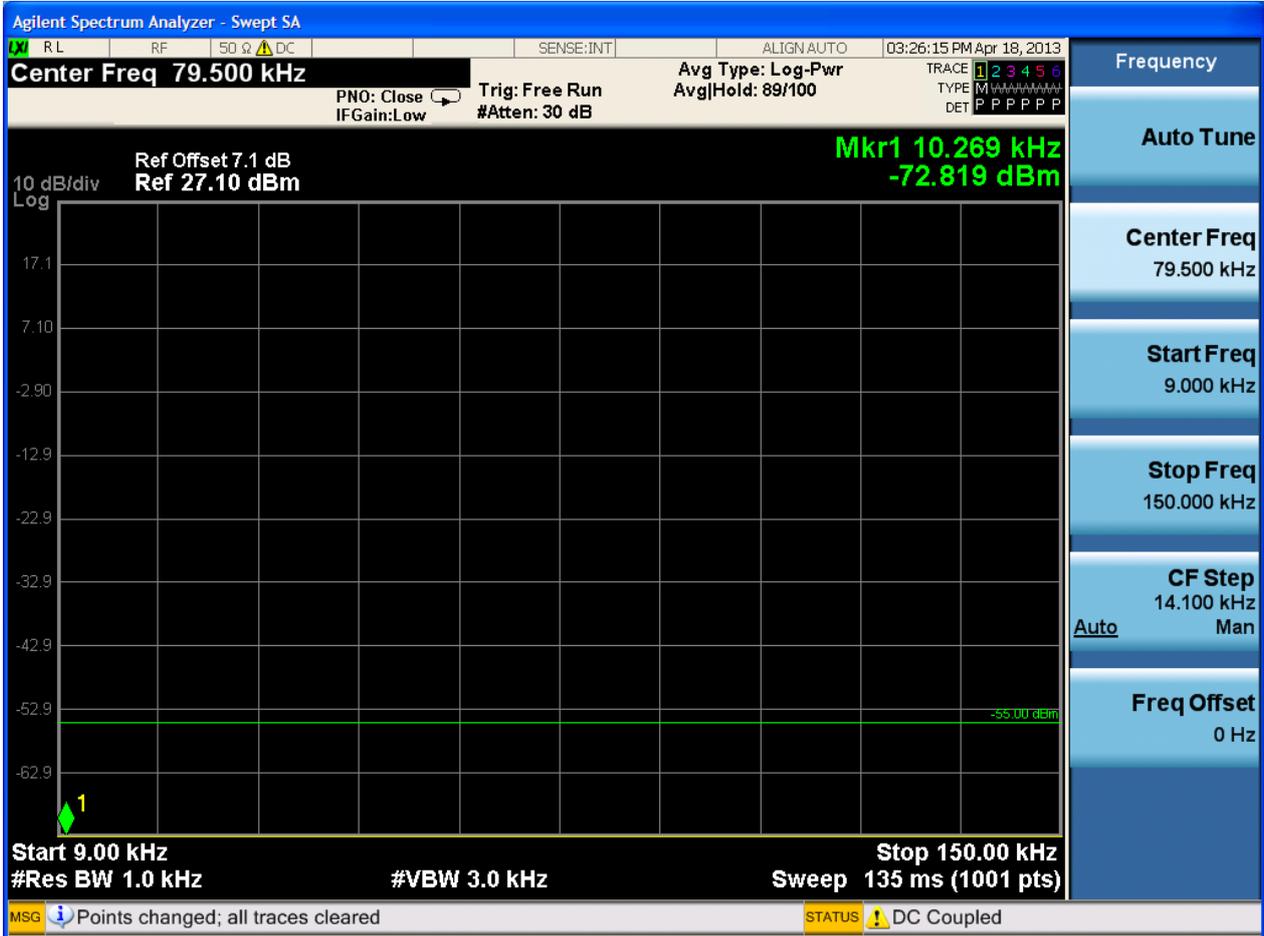


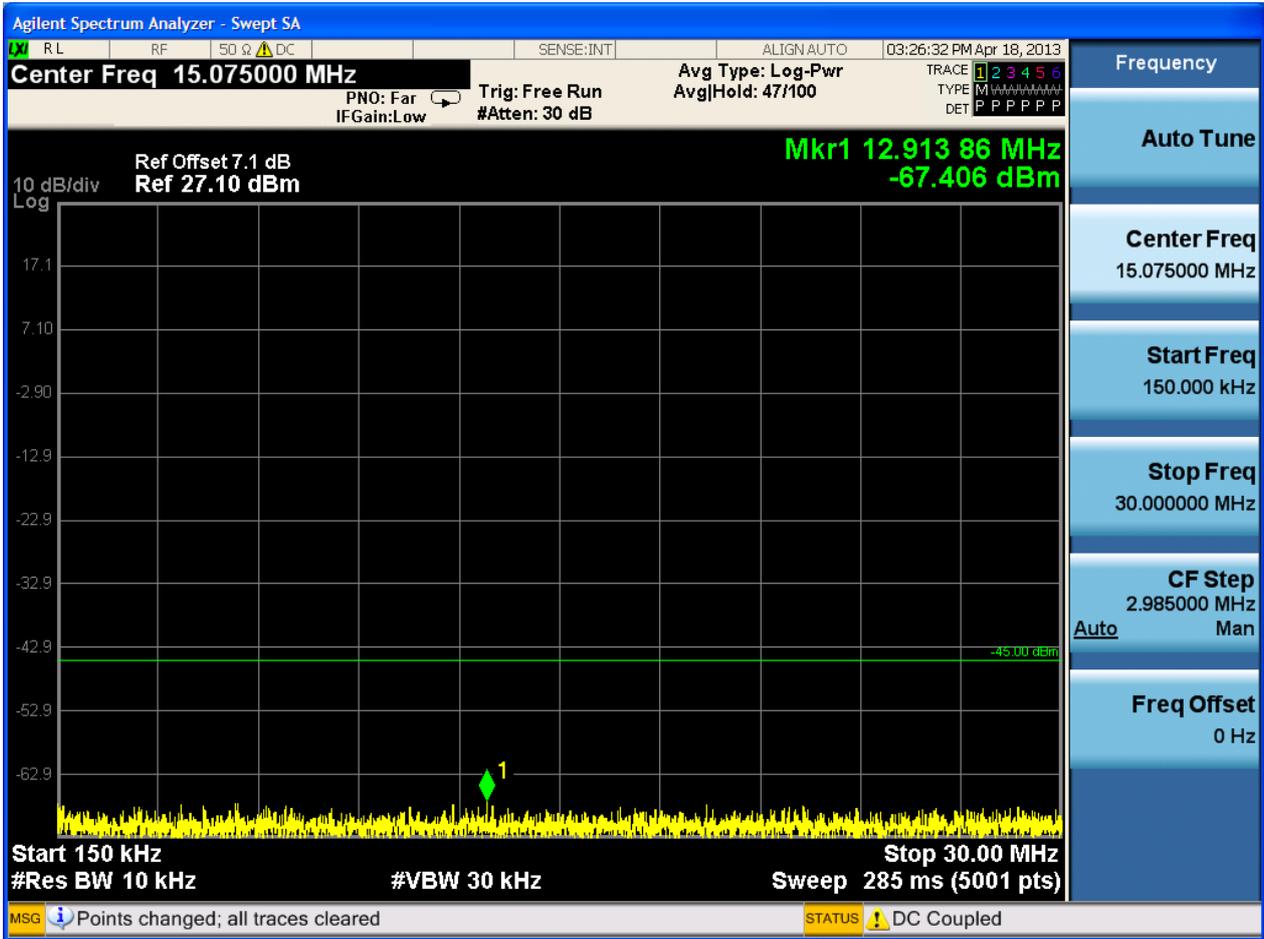


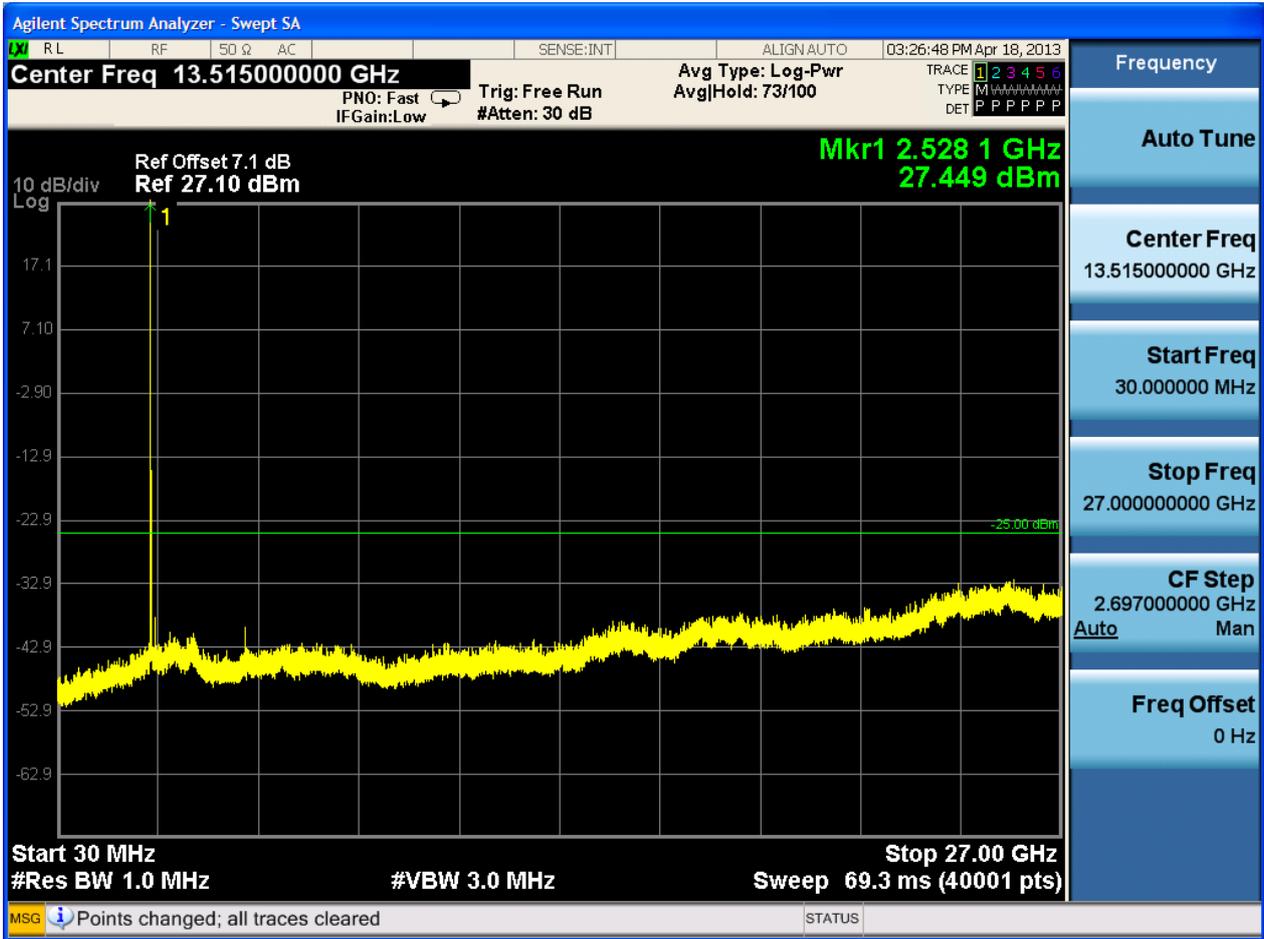


6.3.1.2.3.2 Test Channel = HCH

6.3.1.2.3.2.1 Test RB = RB1#0



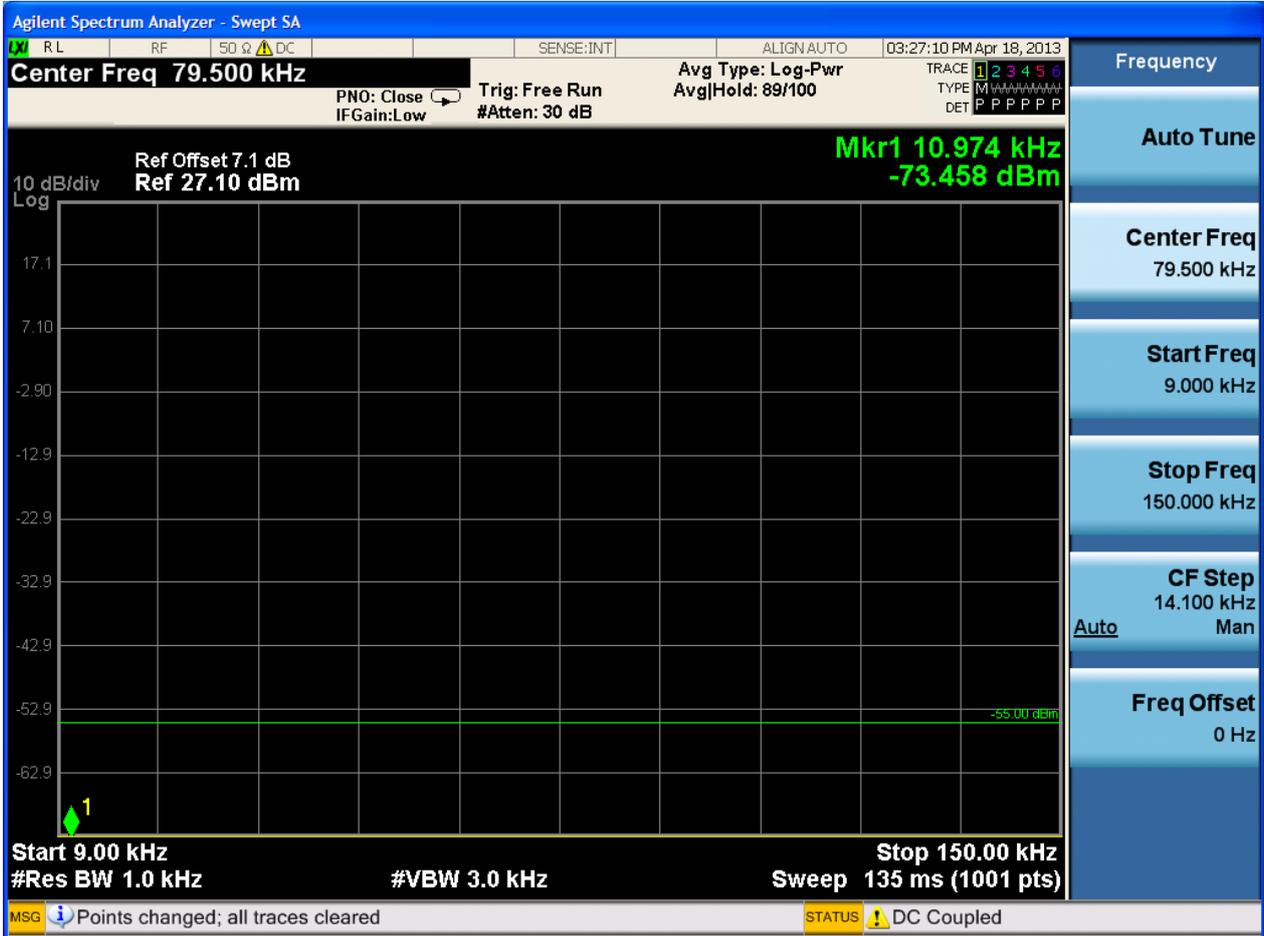


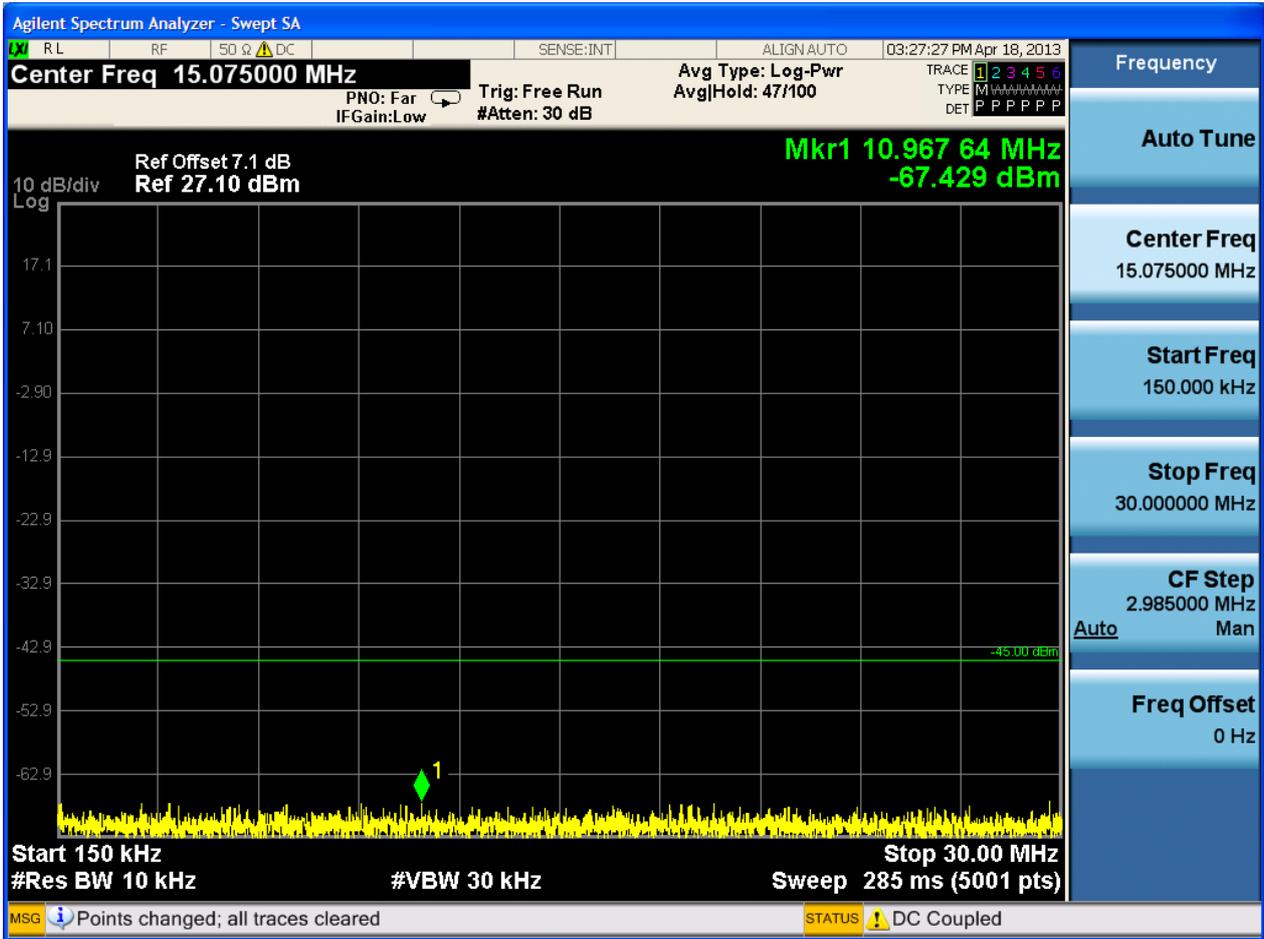


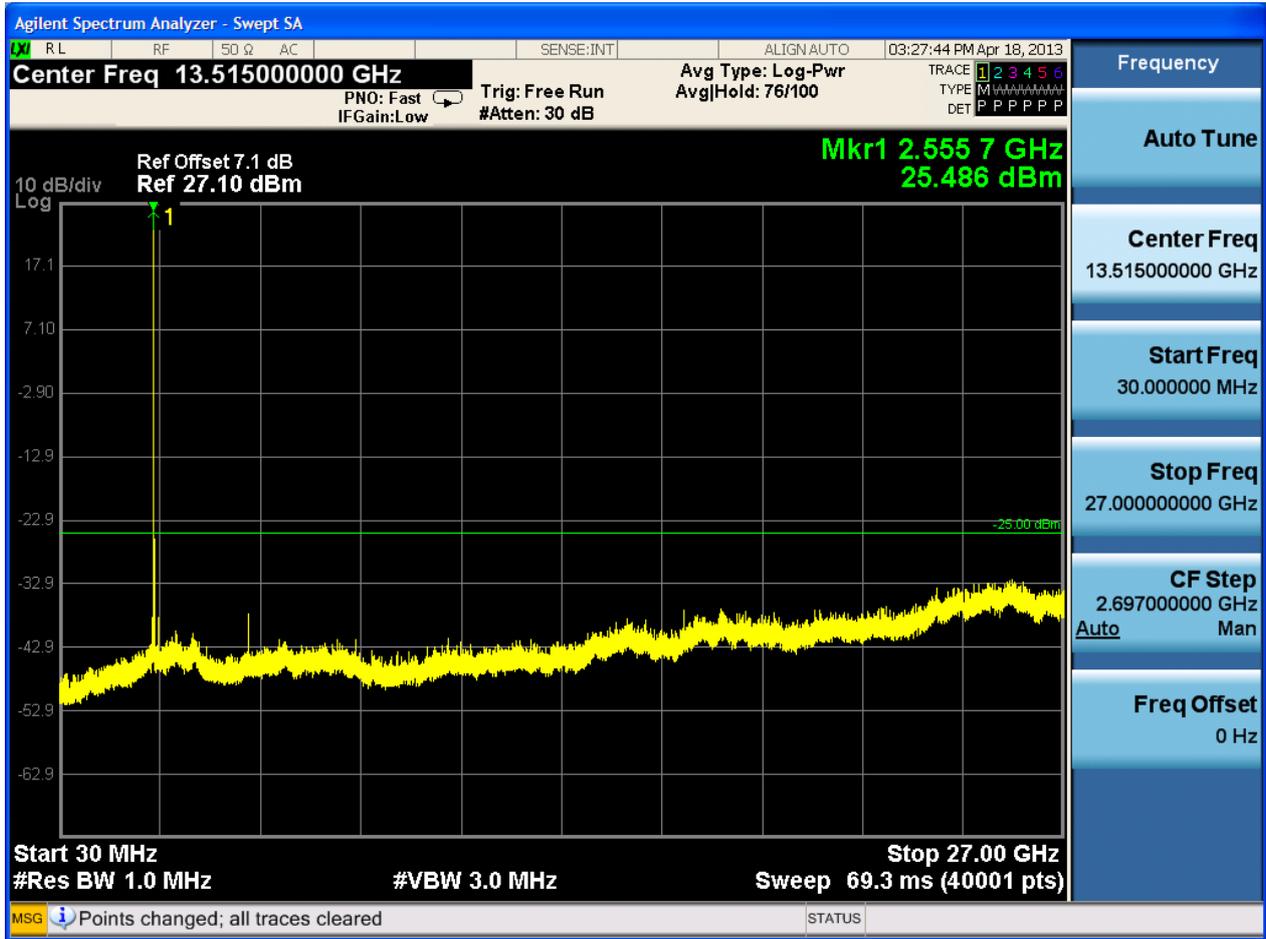


6.3.1.2.3.3 Test Channel = MCH

6.3.1.2.3.3.1 Test RB = RB1#0







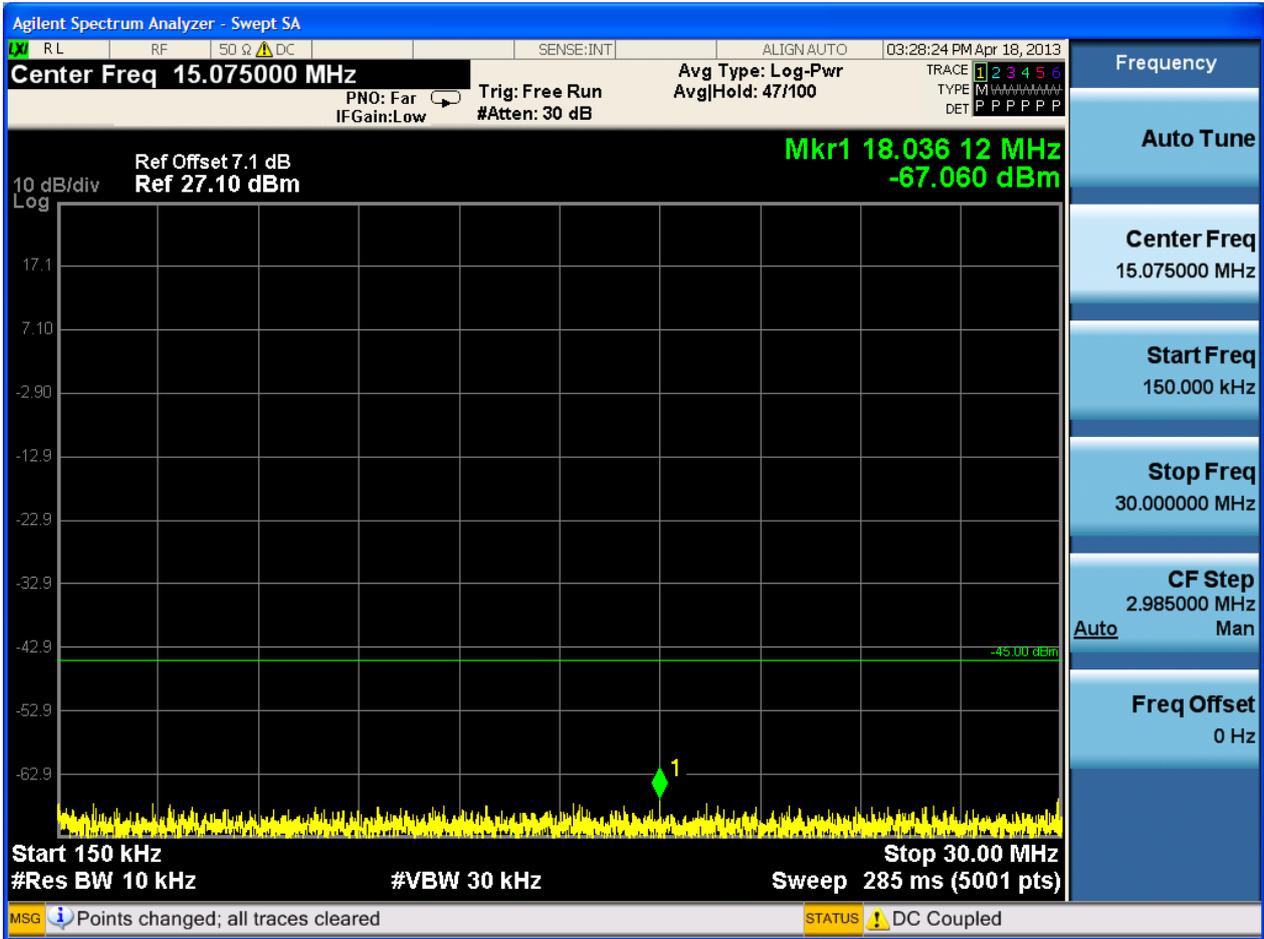


6.3.1.2.4 Test Bandwidth = 20

6.3.1.2.4.1 Test Channel = LCH

6.3.1.2.4.1.1 Test RB = RB1#0



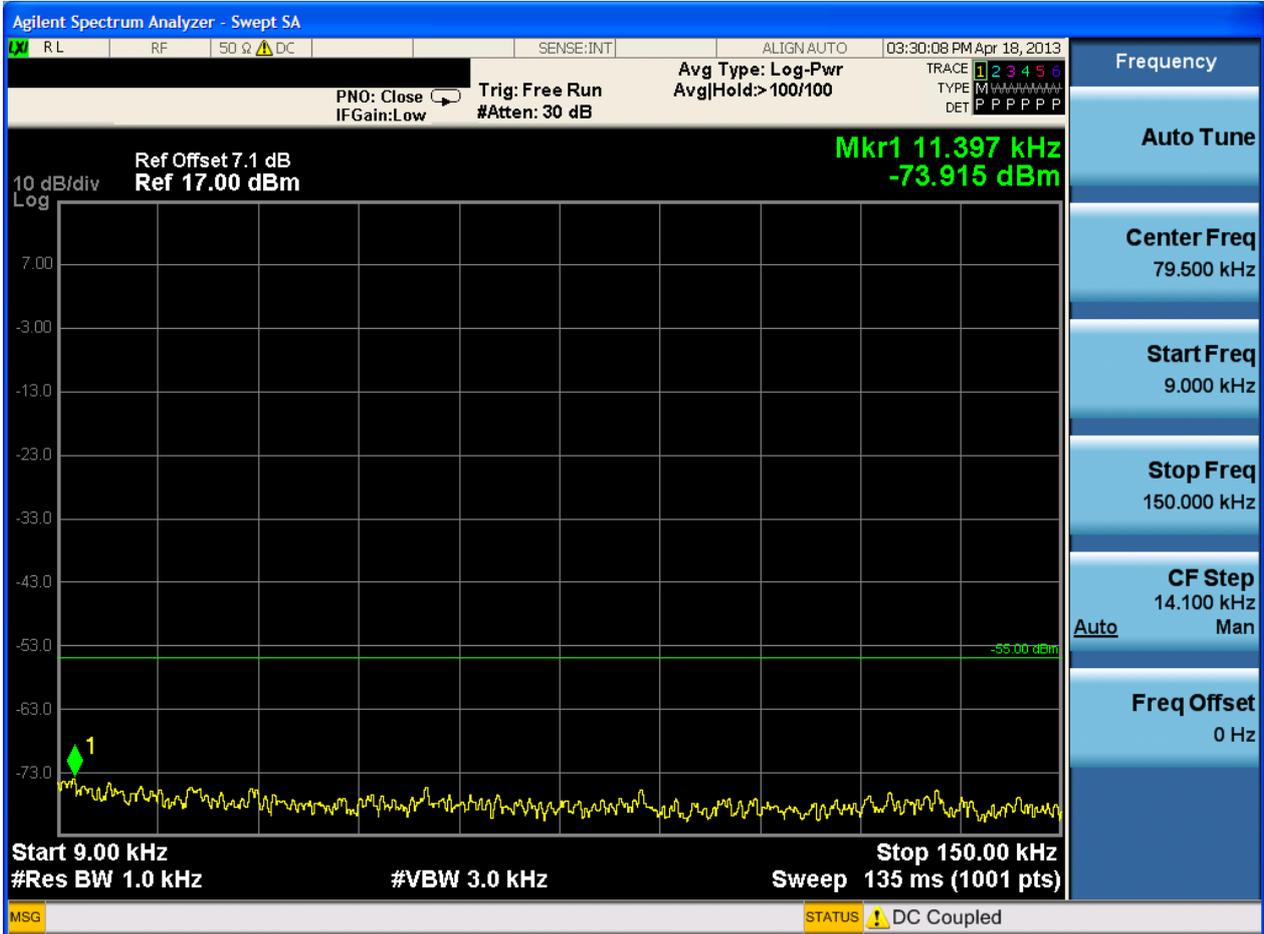


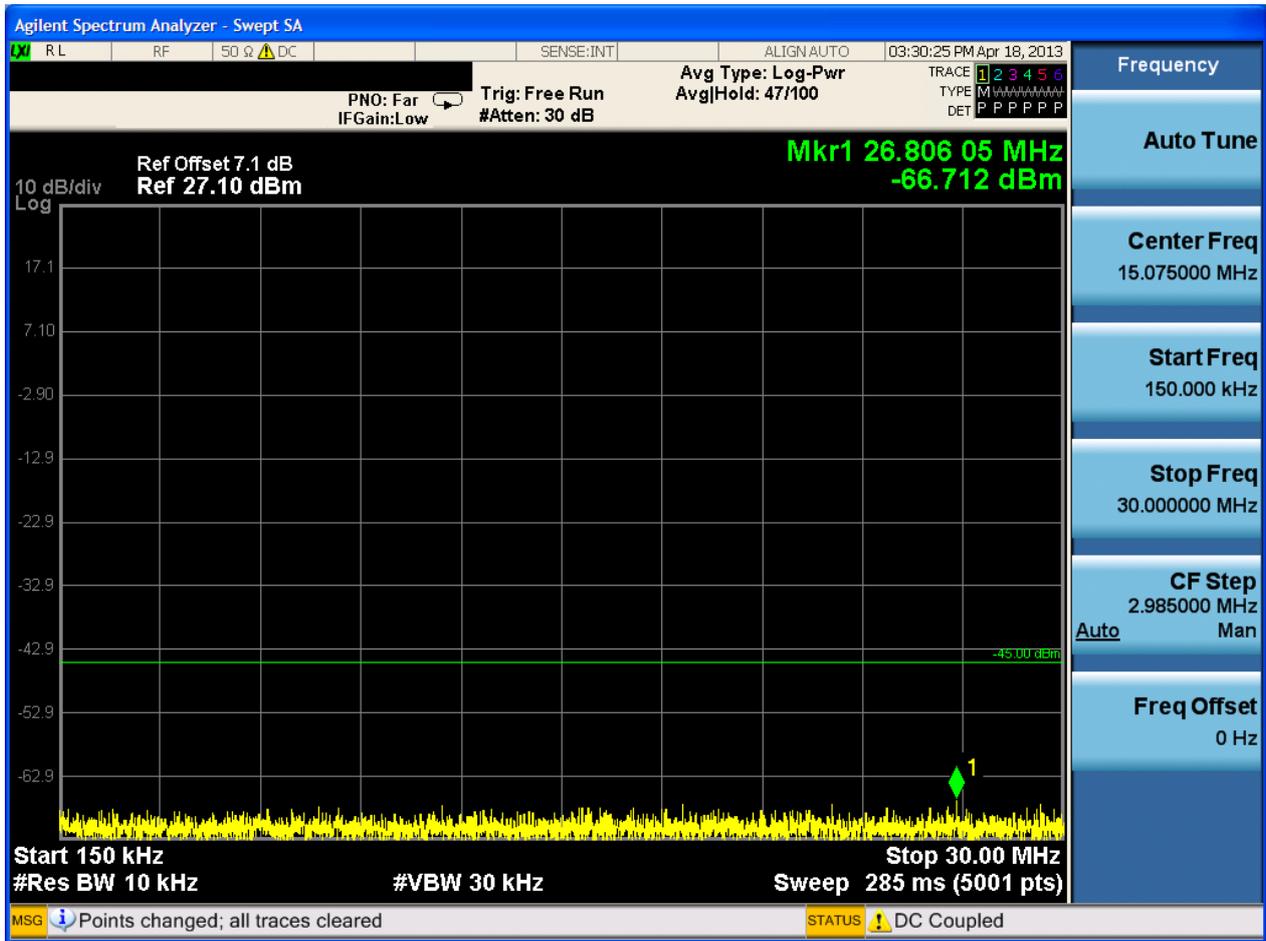


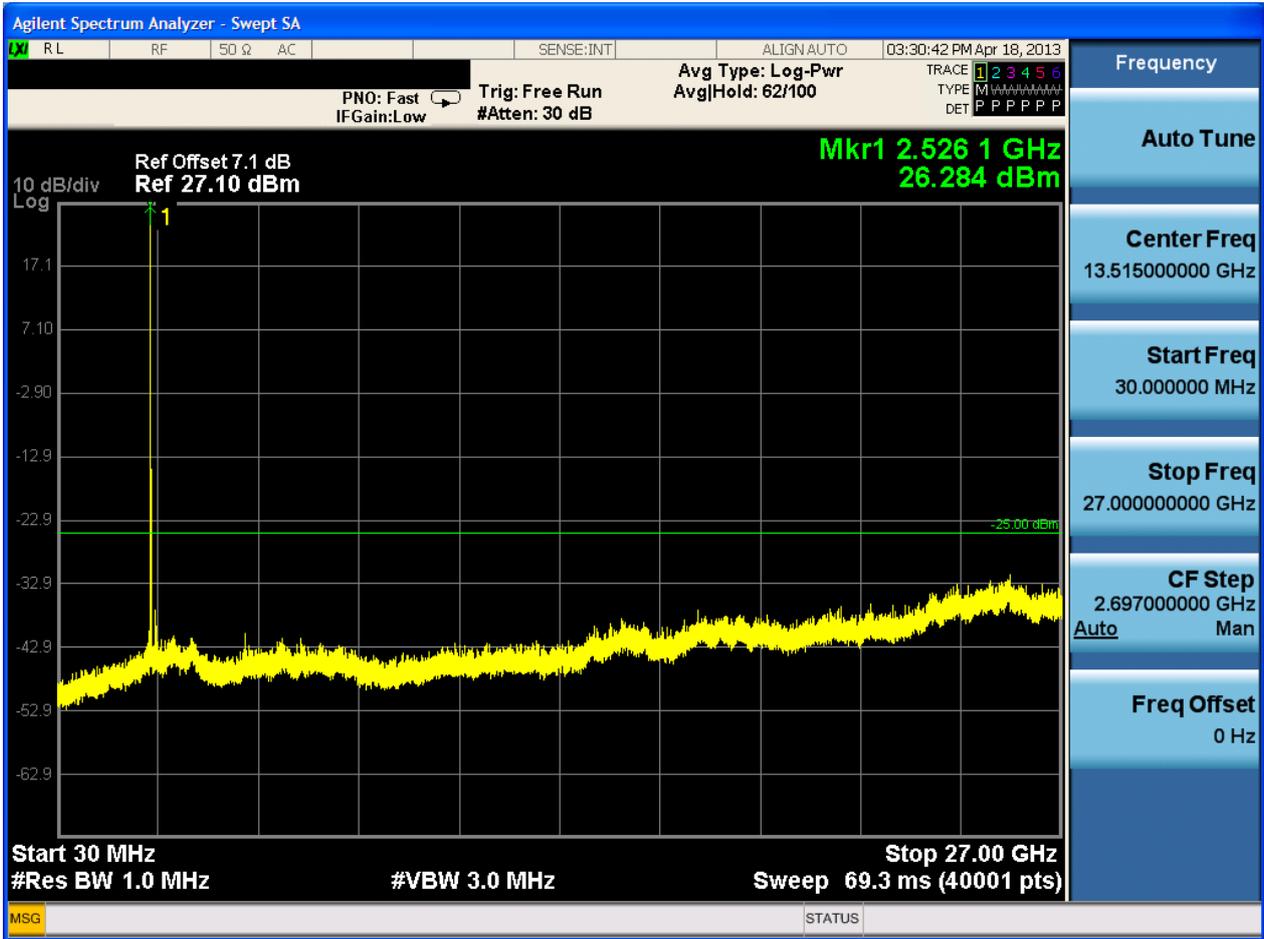


6.3.1.2.4.2 Test Channel = HCH

6.3.1.2.4.2.1 Test RB = RB1#0









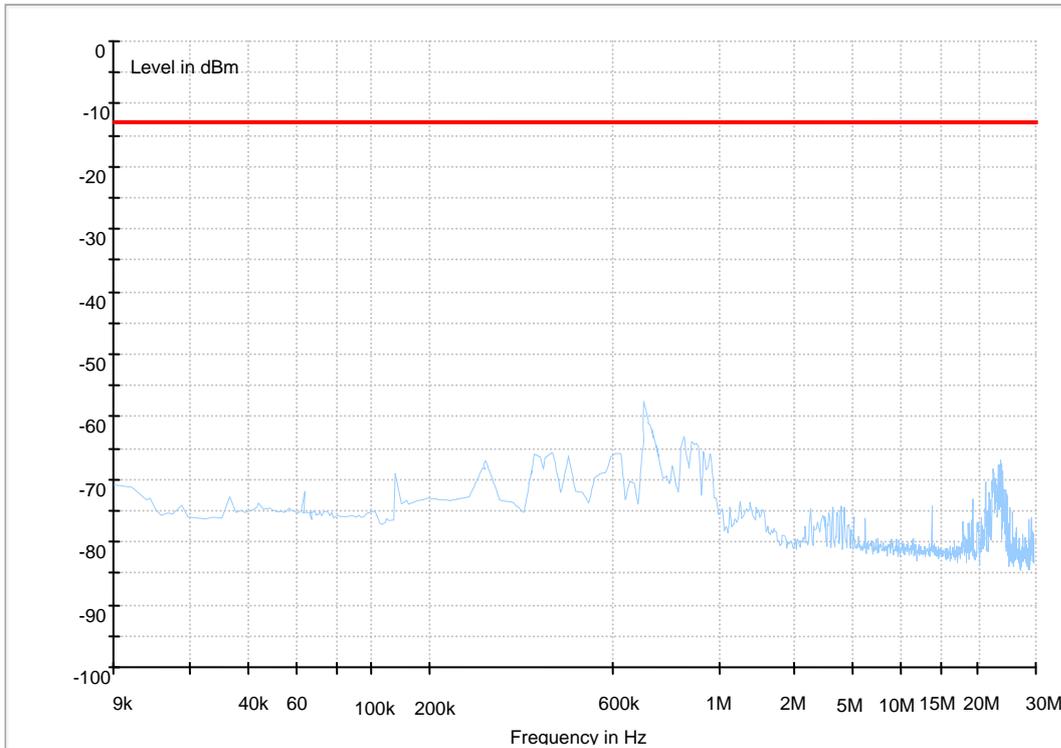
7Appendix_G: Field Strength of Spurious Radiation

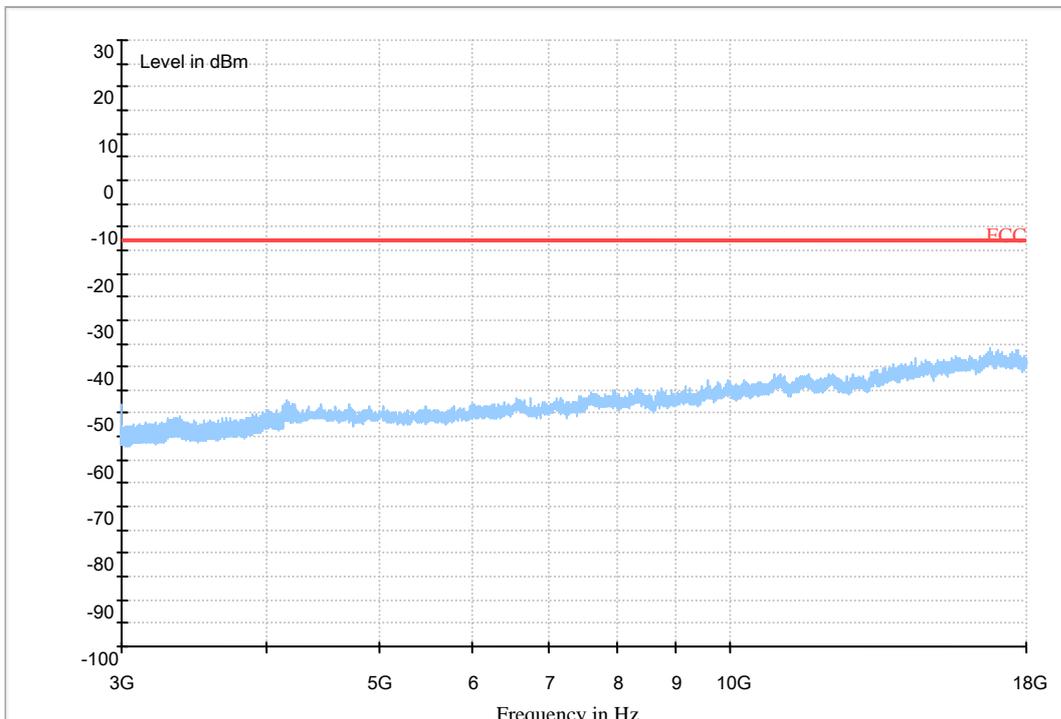
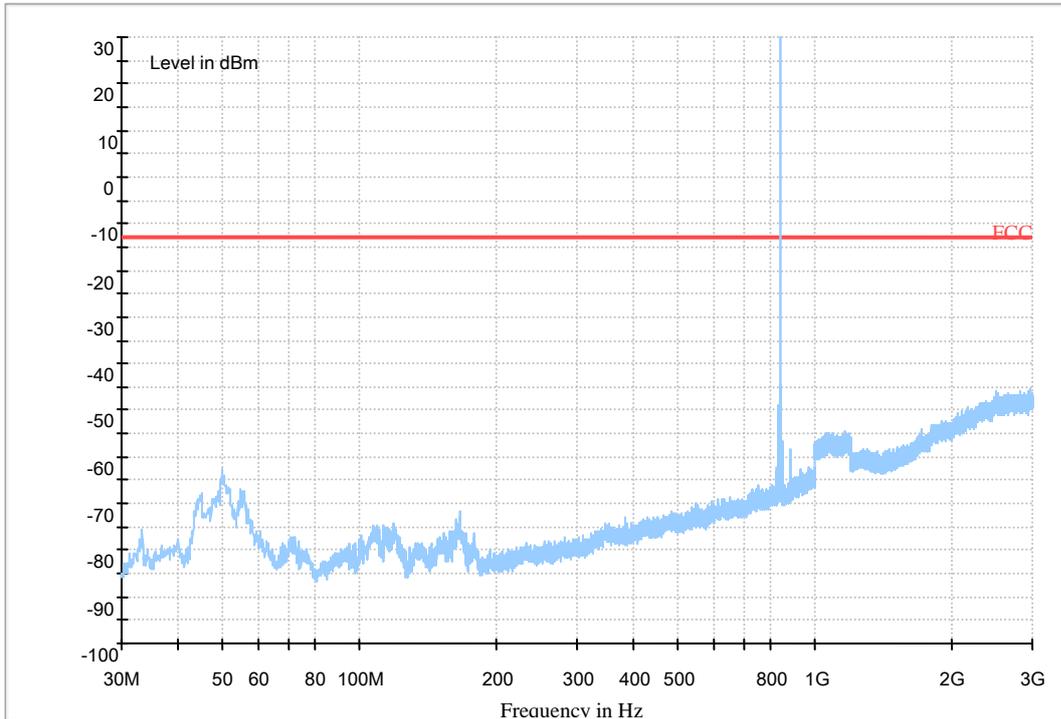
Part I - Test Plots

7.1 For GSM

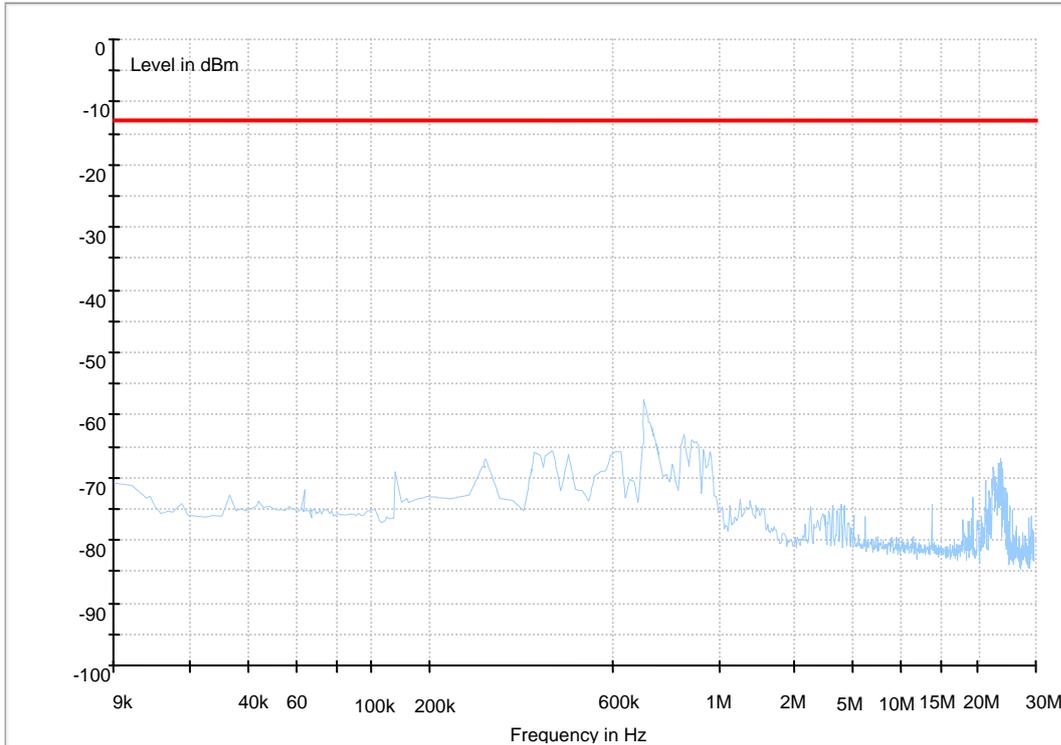
7.1.1 Test Band = GSM850

7.1.1.1 Test Mode = GSM/TM1

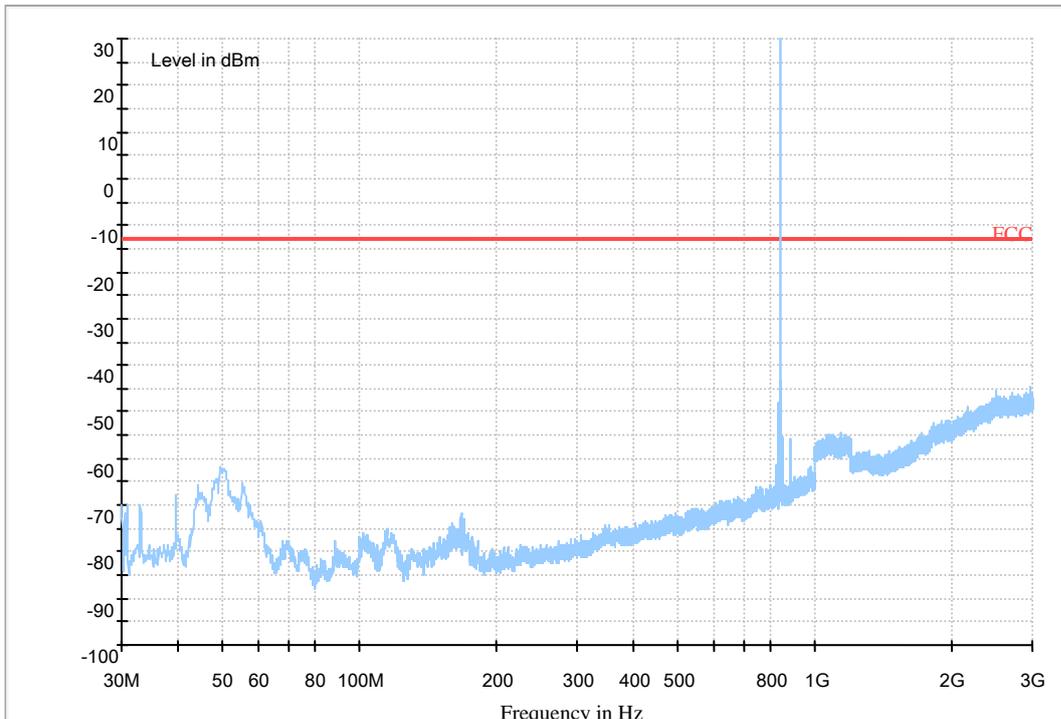




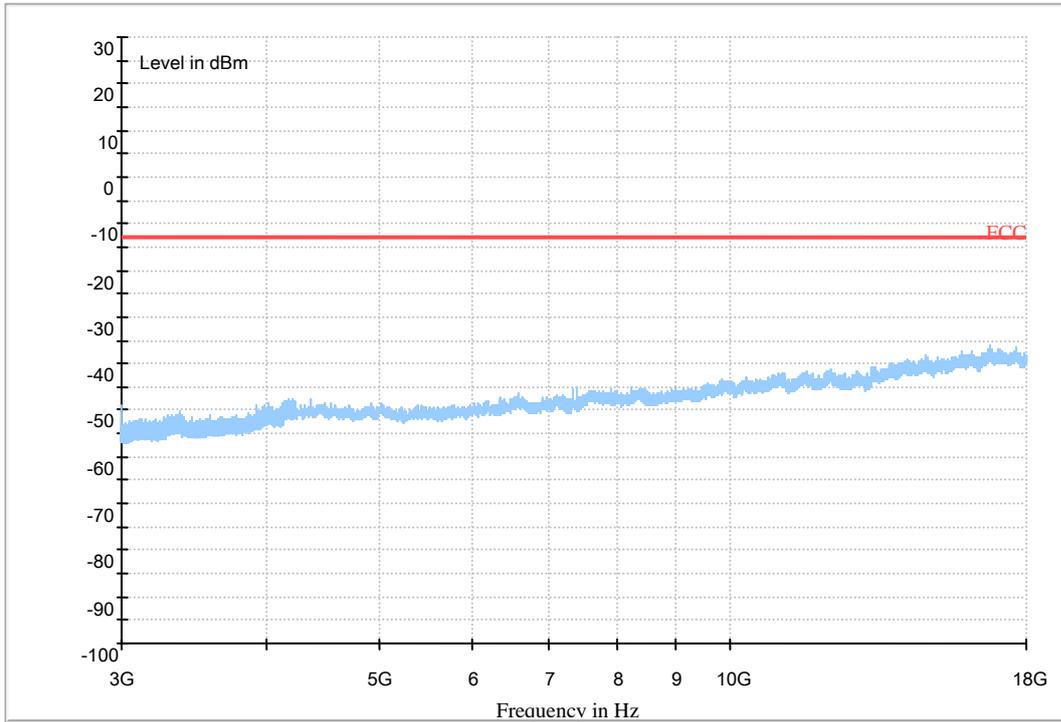
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L

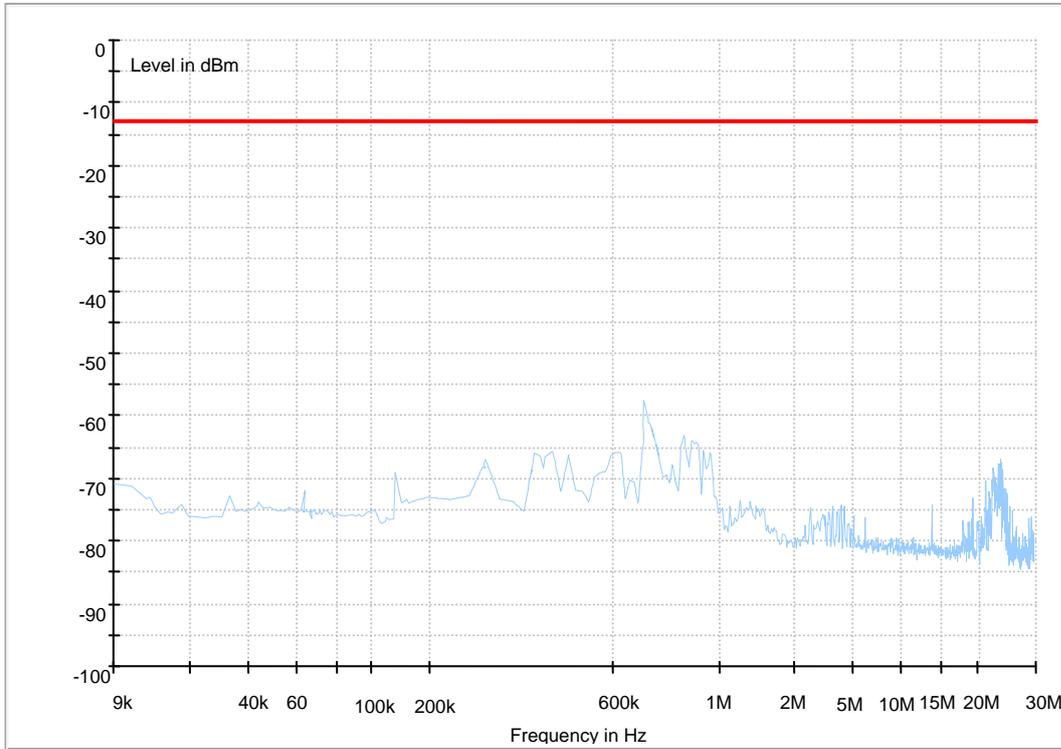


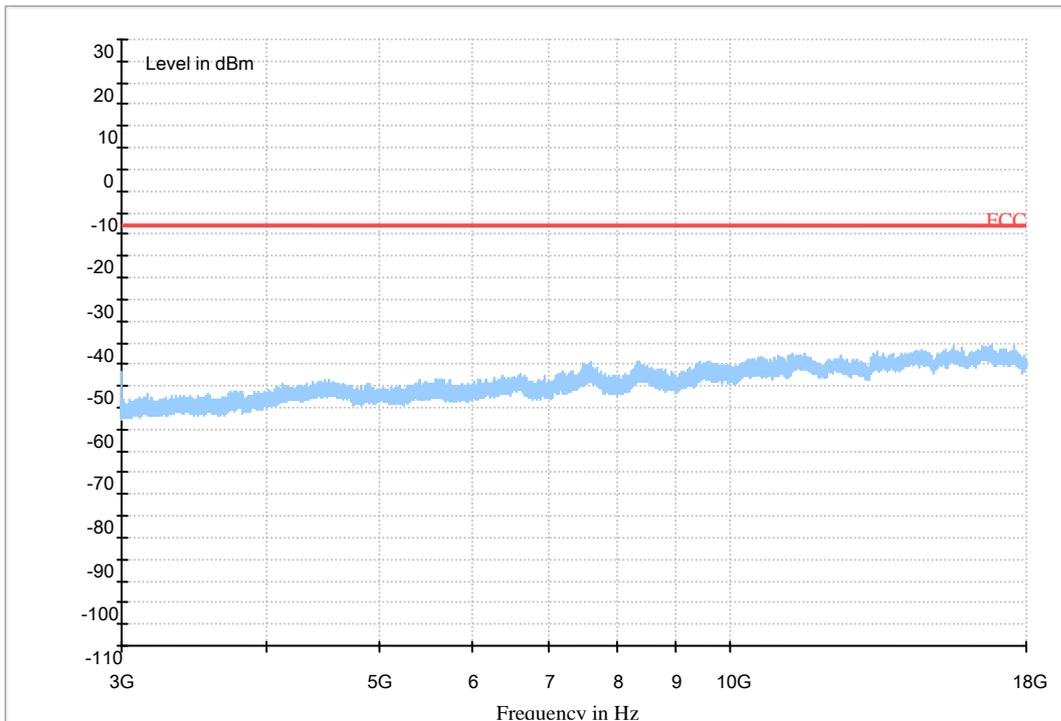
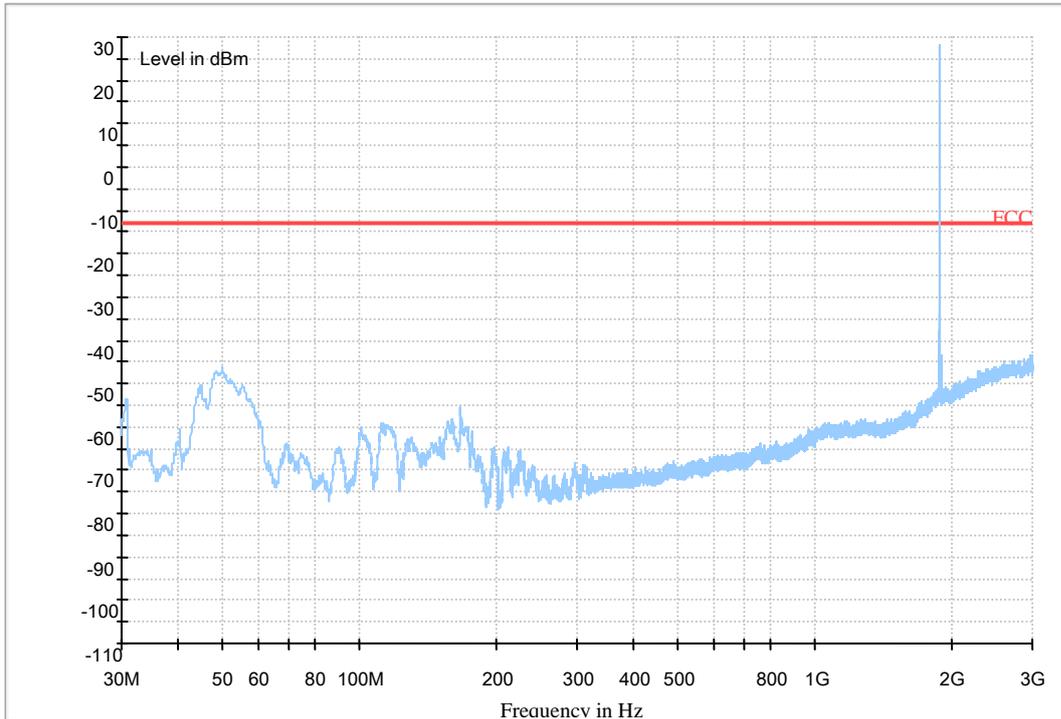
Copy of FCC PART22 GSM850_H

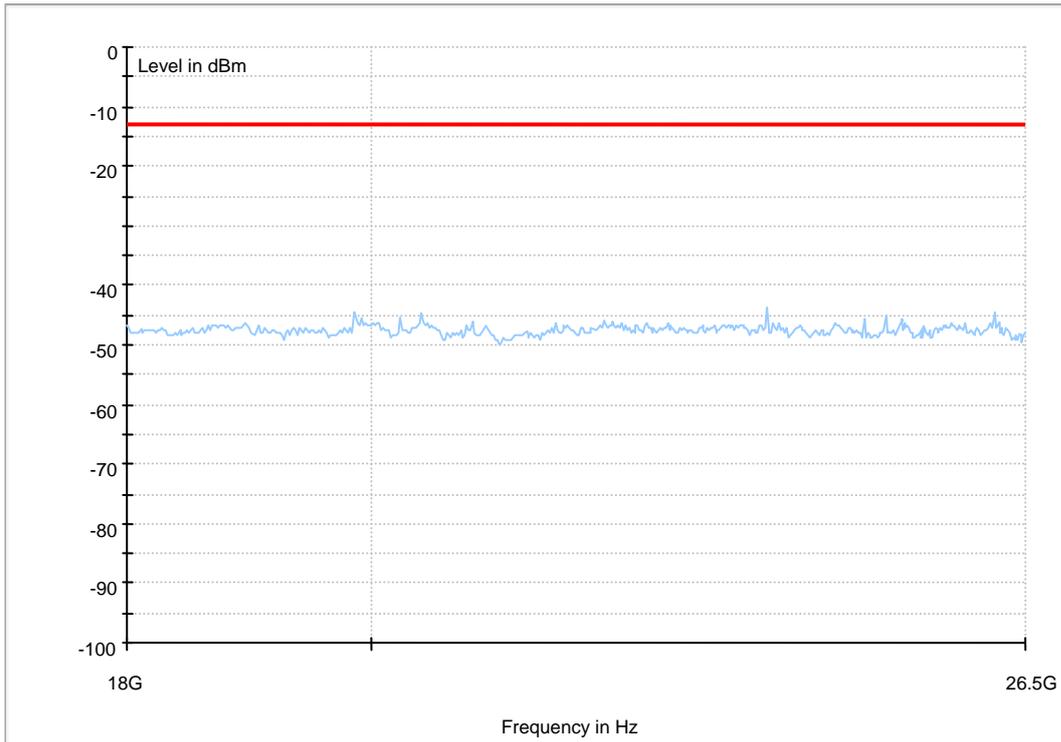


7.1.2 Test Band = GSM1900

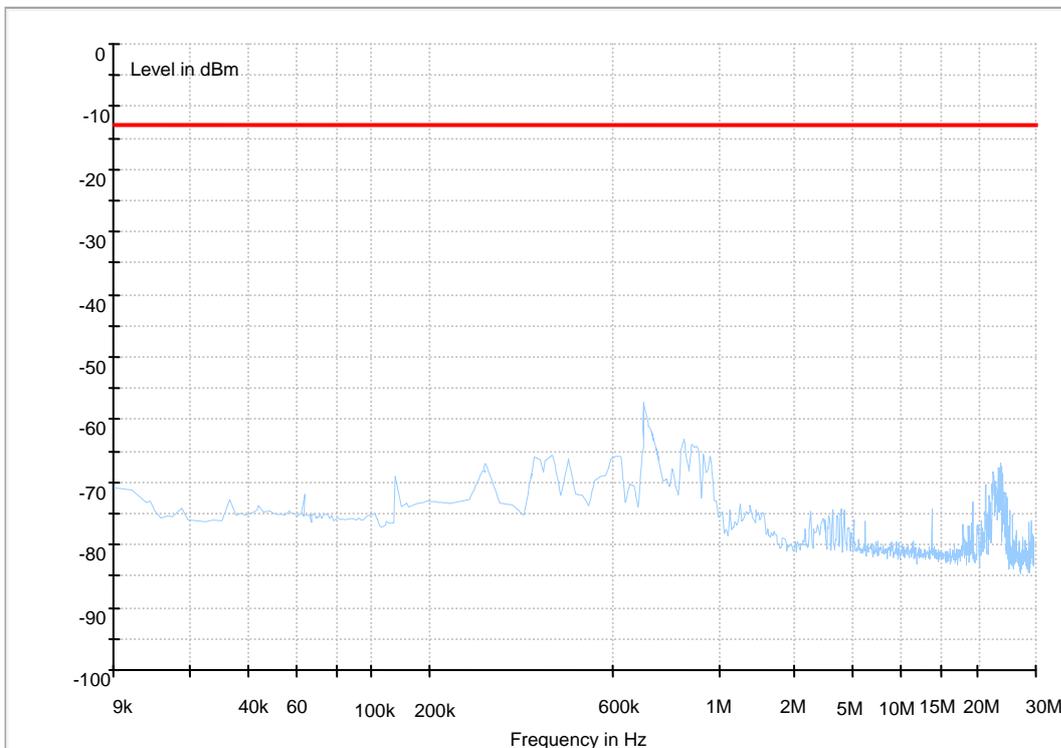
7.1.2.1 Test Mode = GSM/TM1

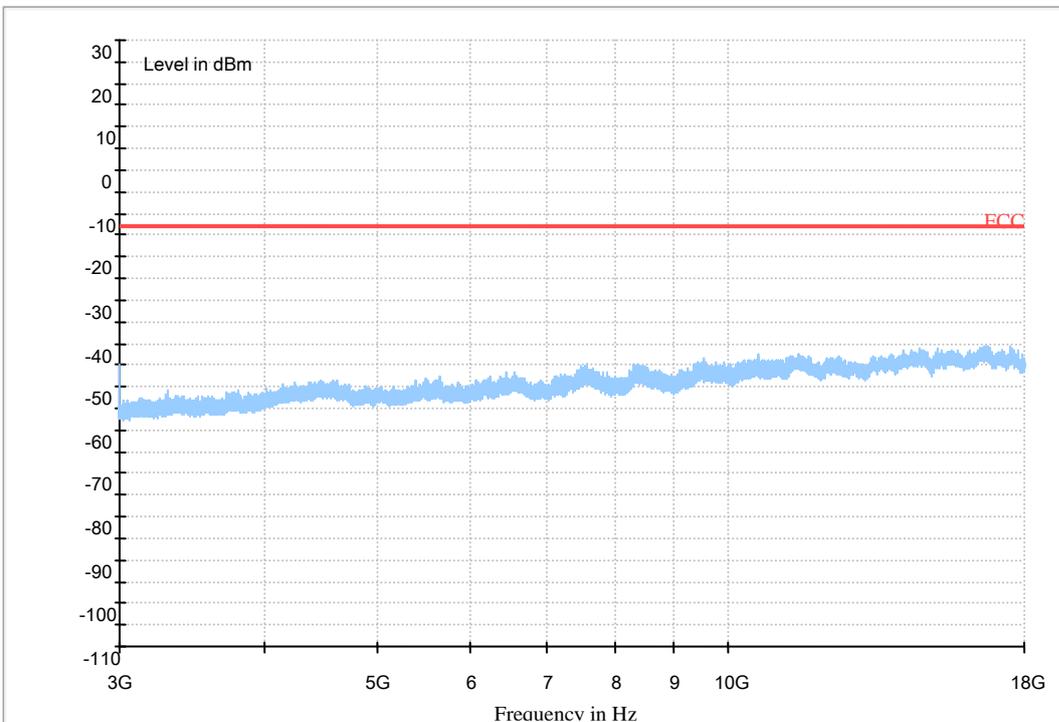
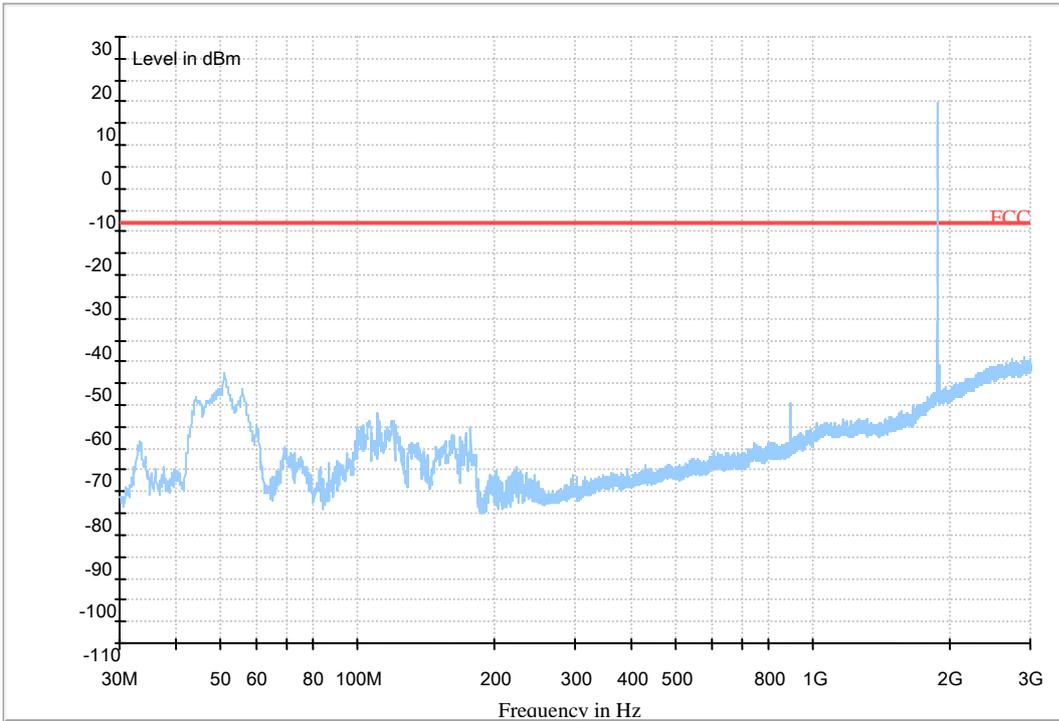


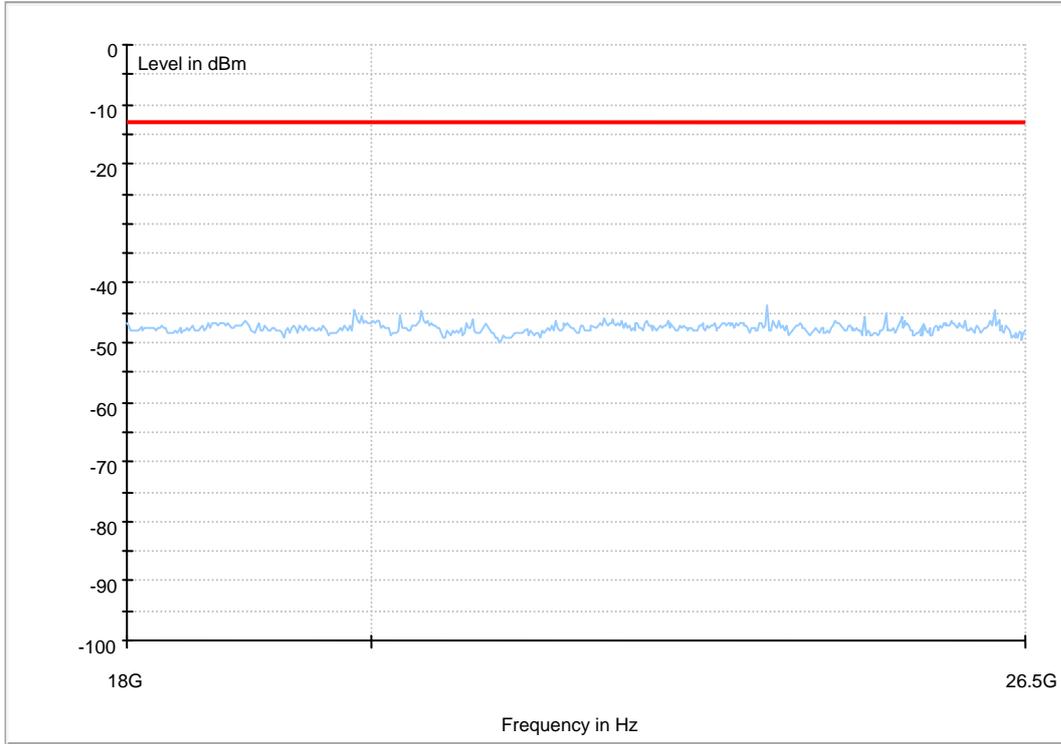




7.1.2.2 Test Mode = GSM/TM2



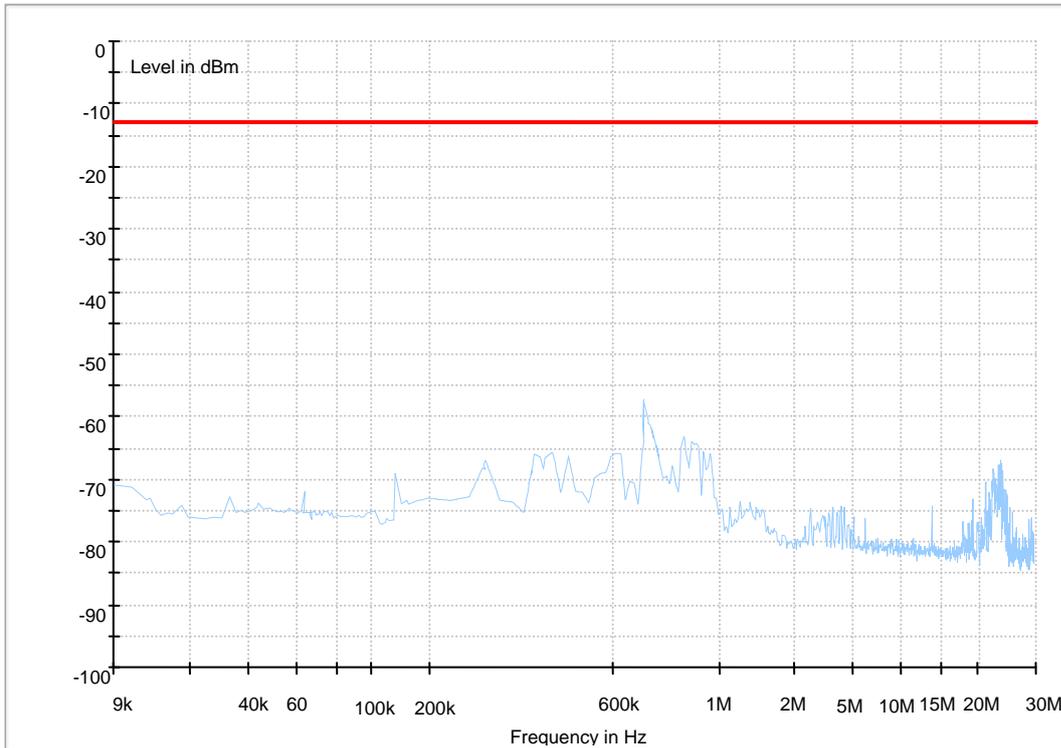


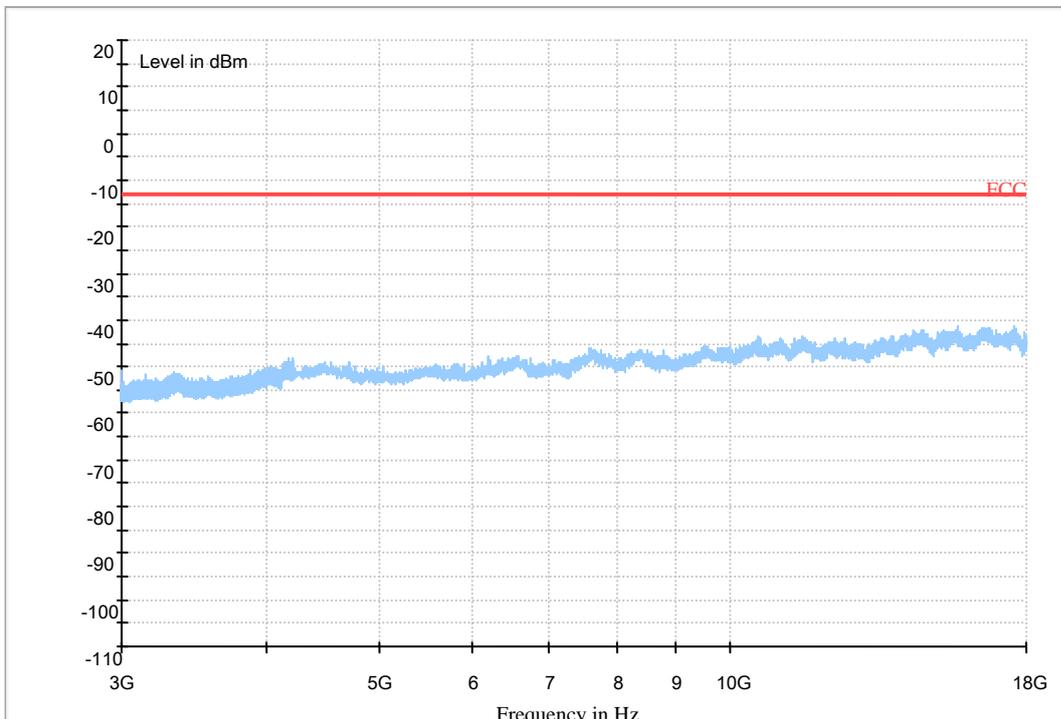
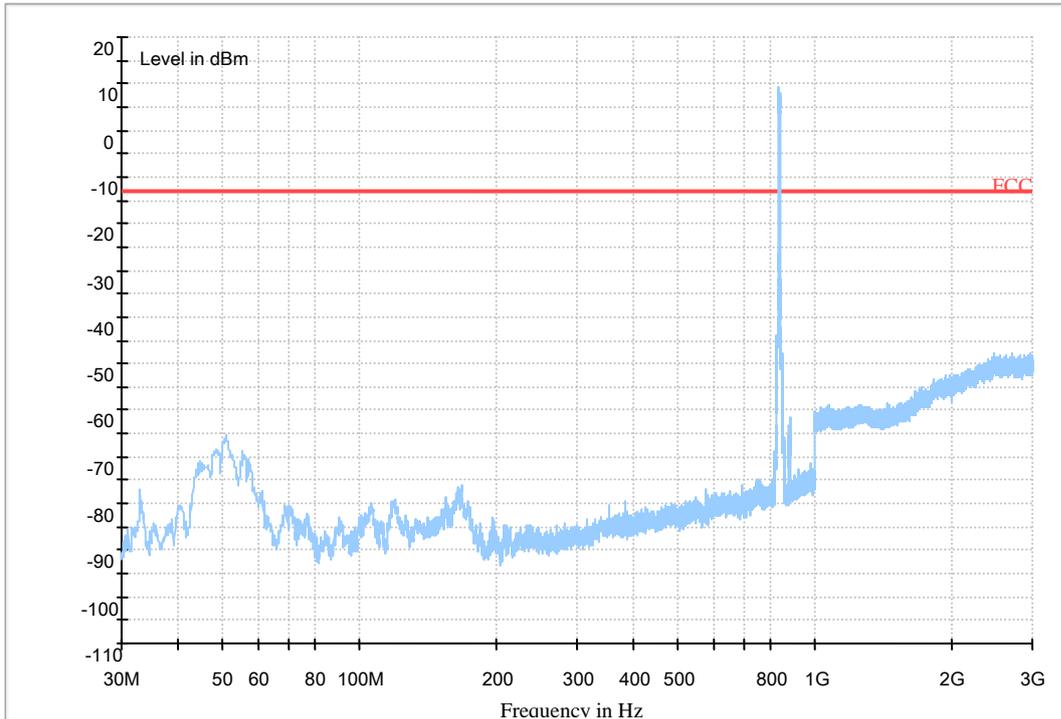


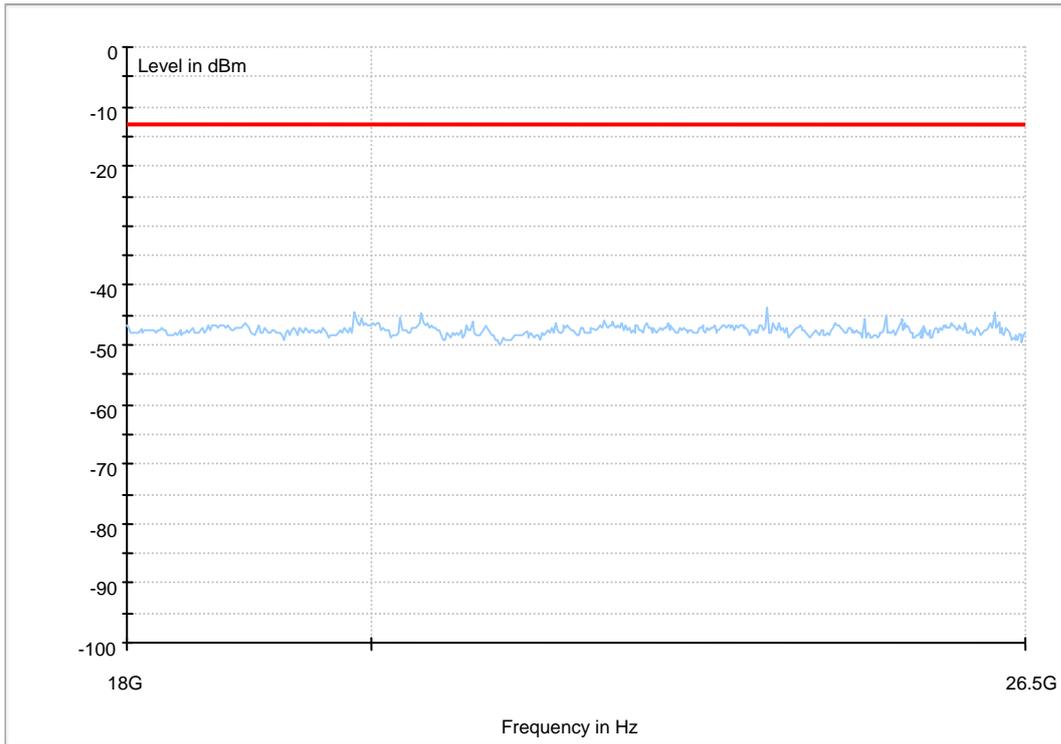
7.2 For UMTS

7.2.1 Test Band = WCDMA850

7.2.1.1 Test Mode = UMTS/TM1



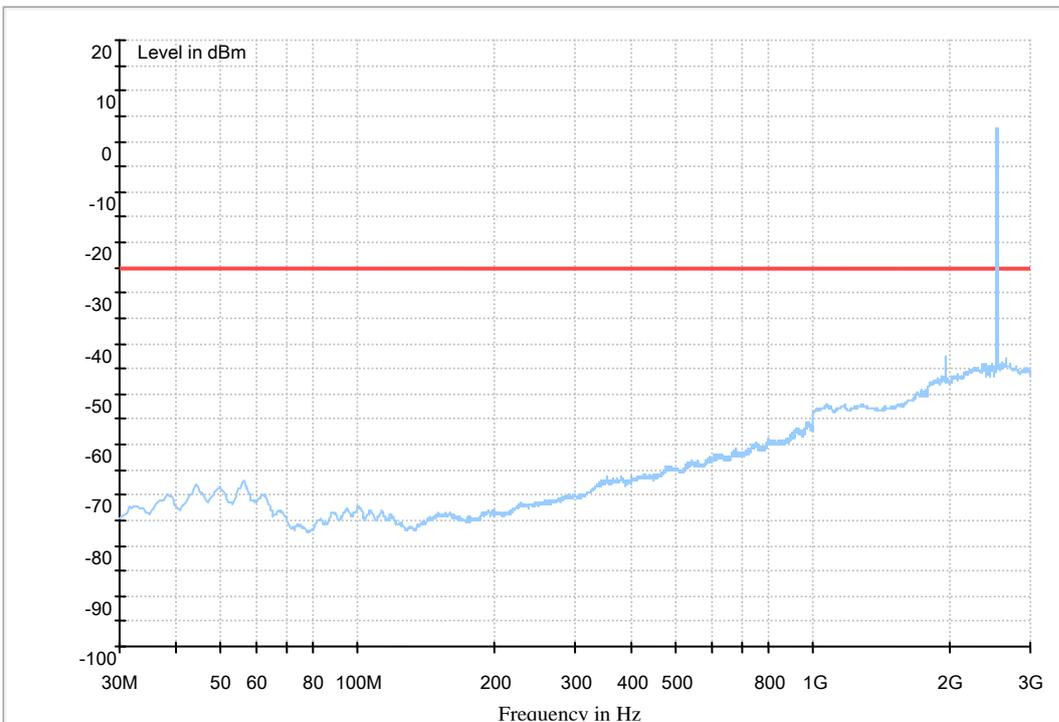
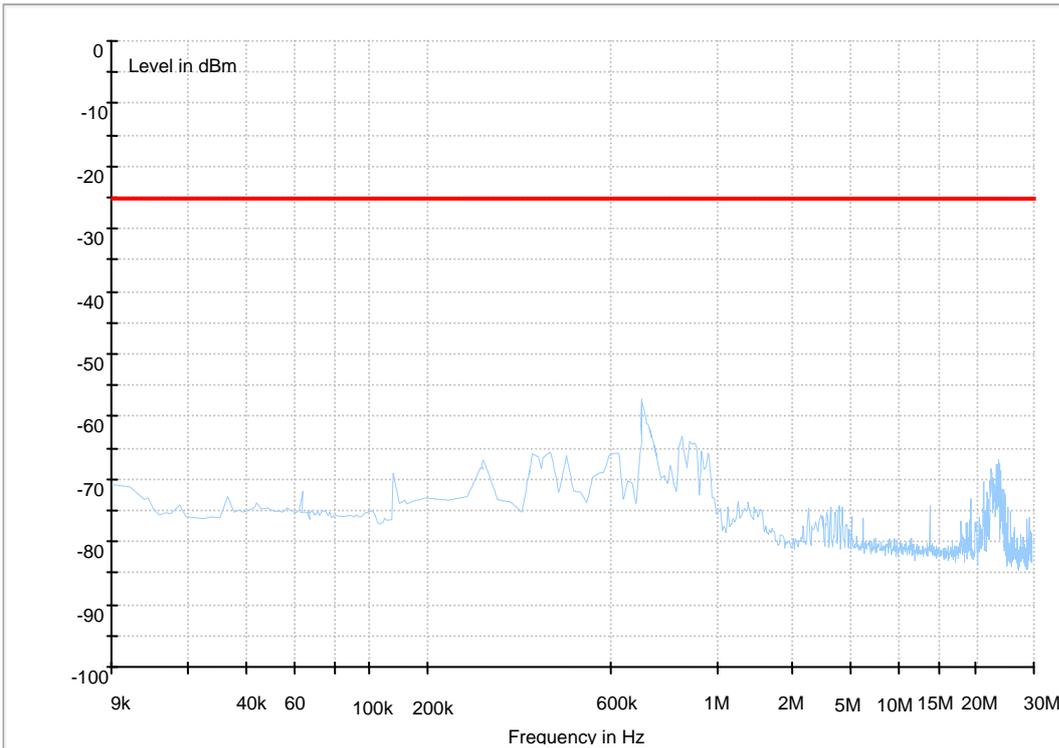


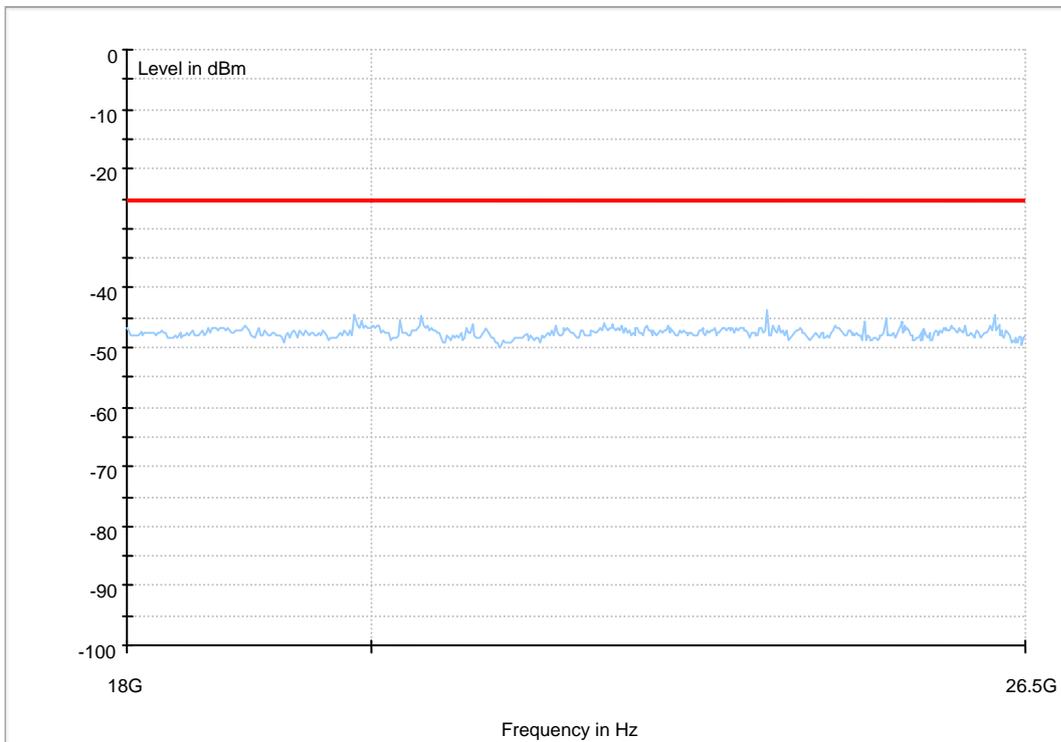
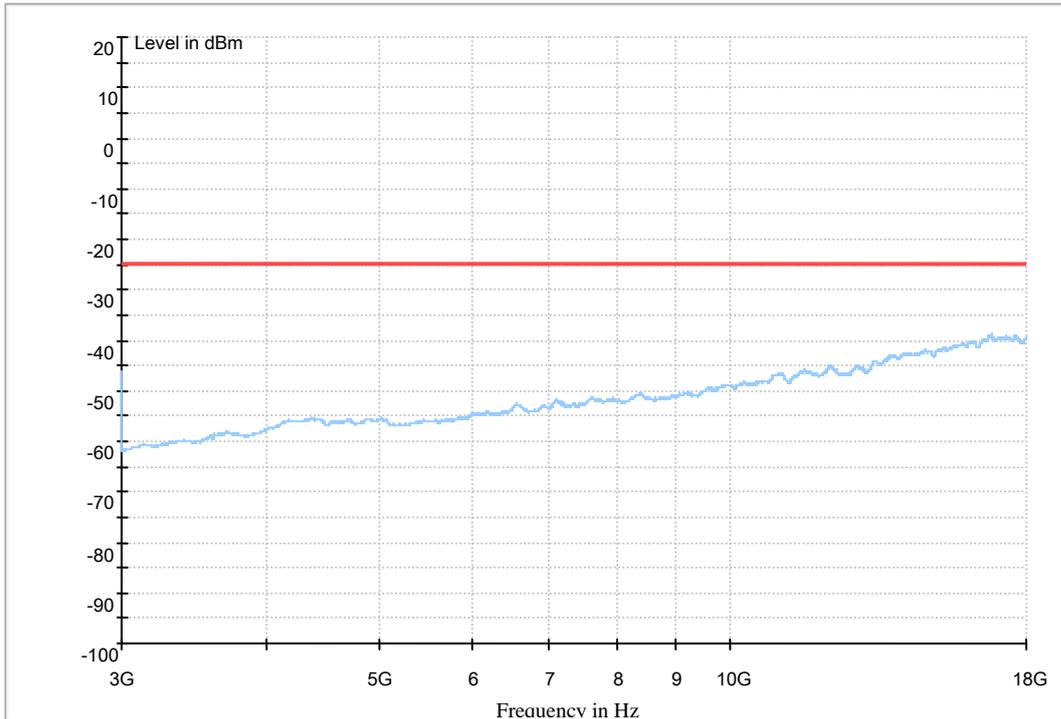


7.3 For LTE

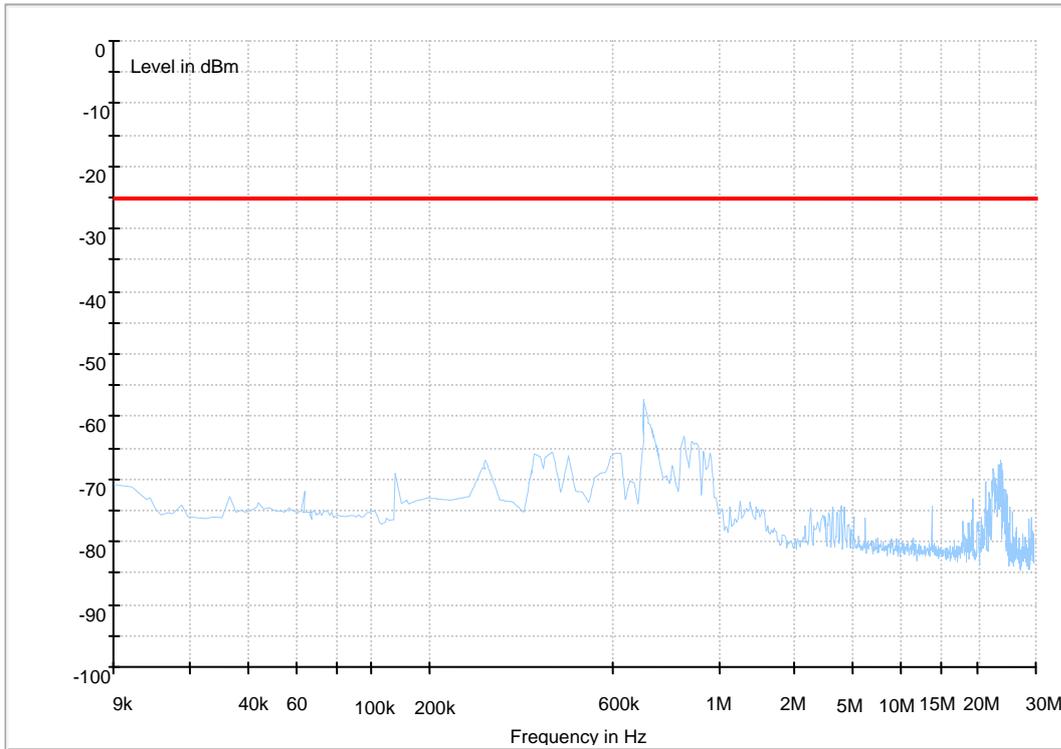
7.3.1 Test Band = BAND7

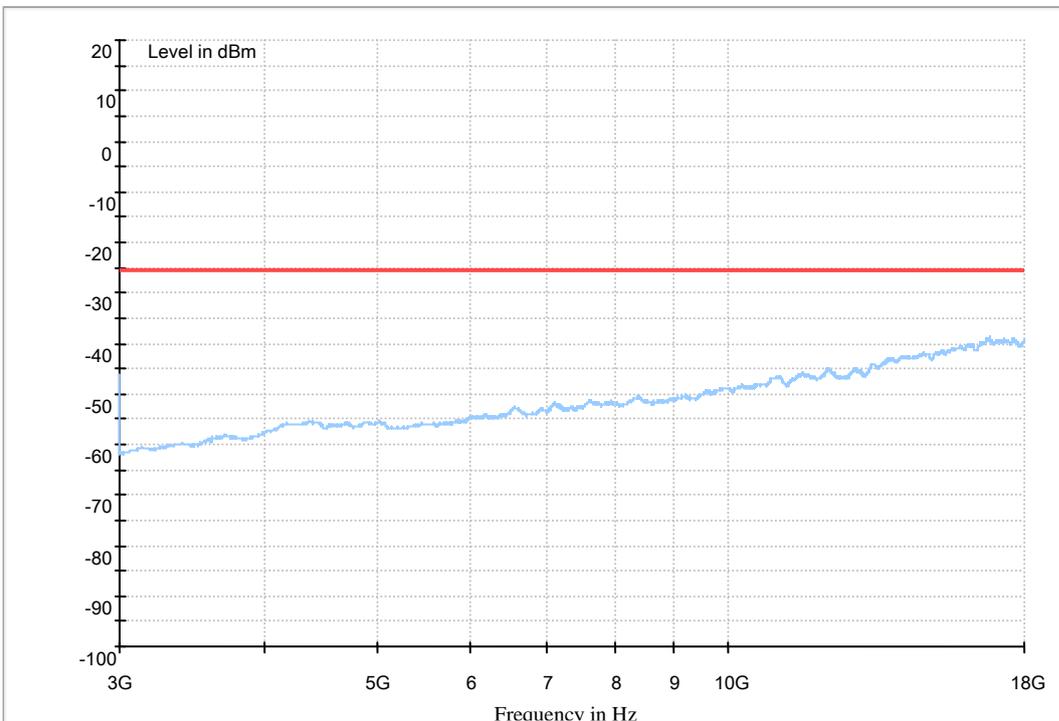
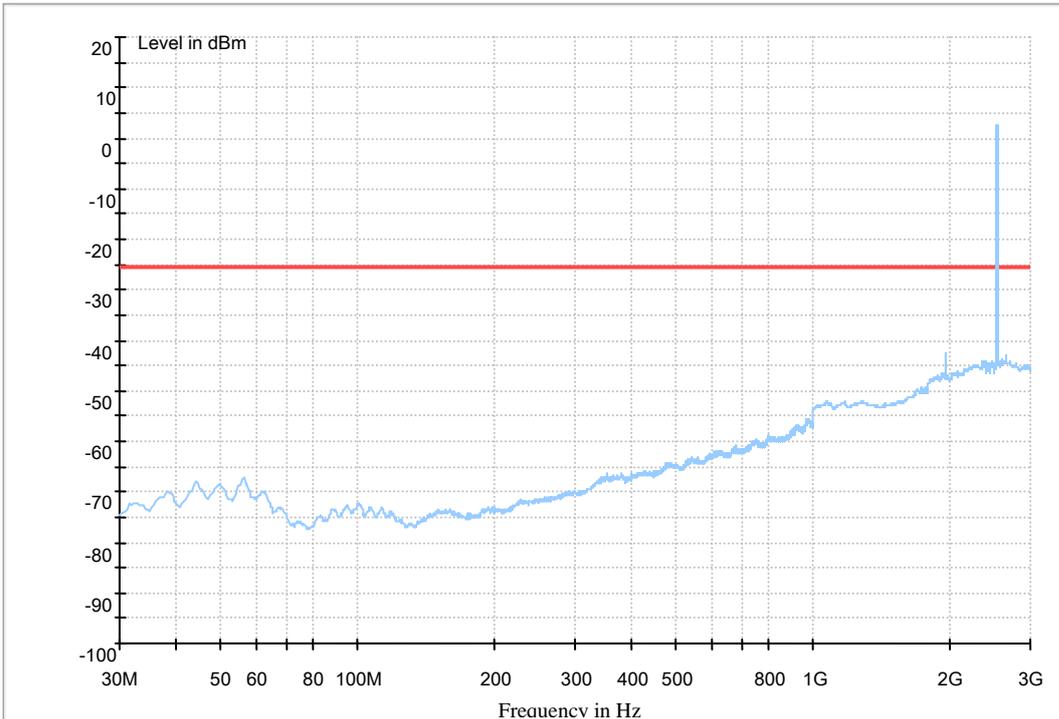
7.3.1.1 Test Bandwidth = 1.4

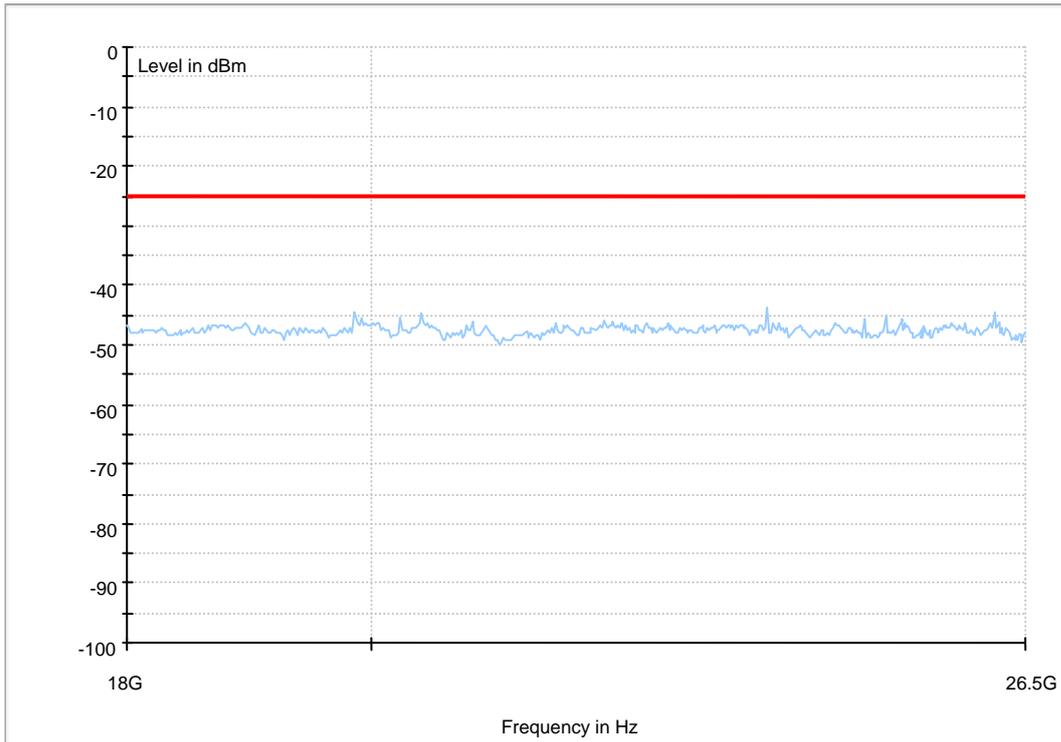




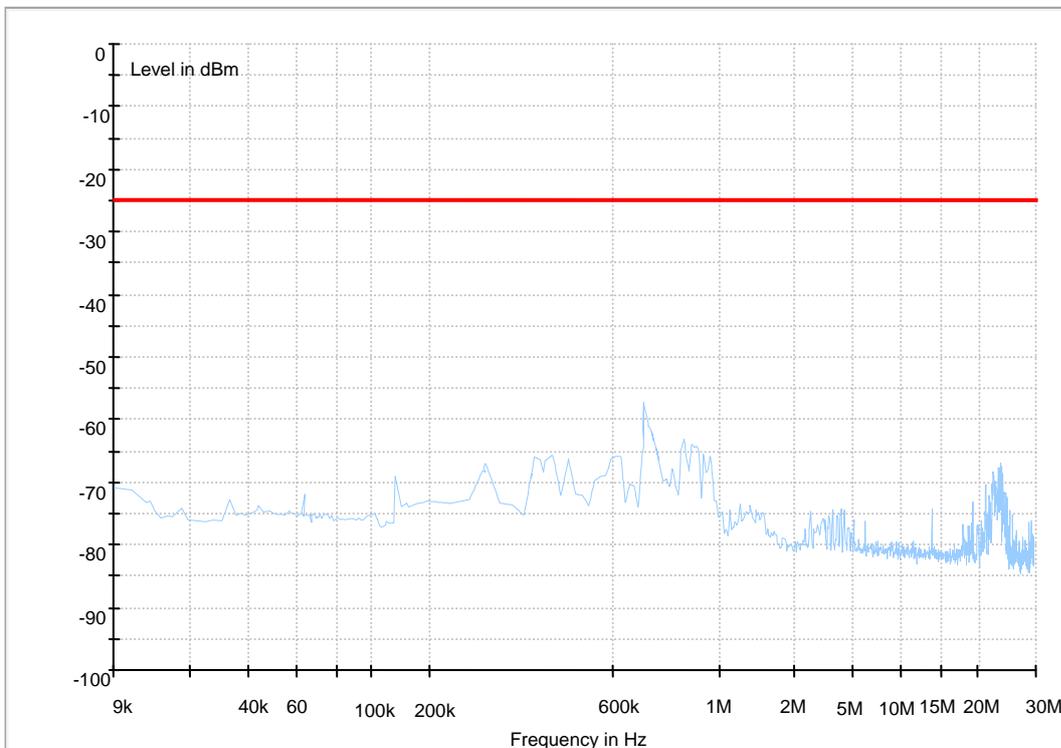
7.3.1.2 Test Bandwidth = 5

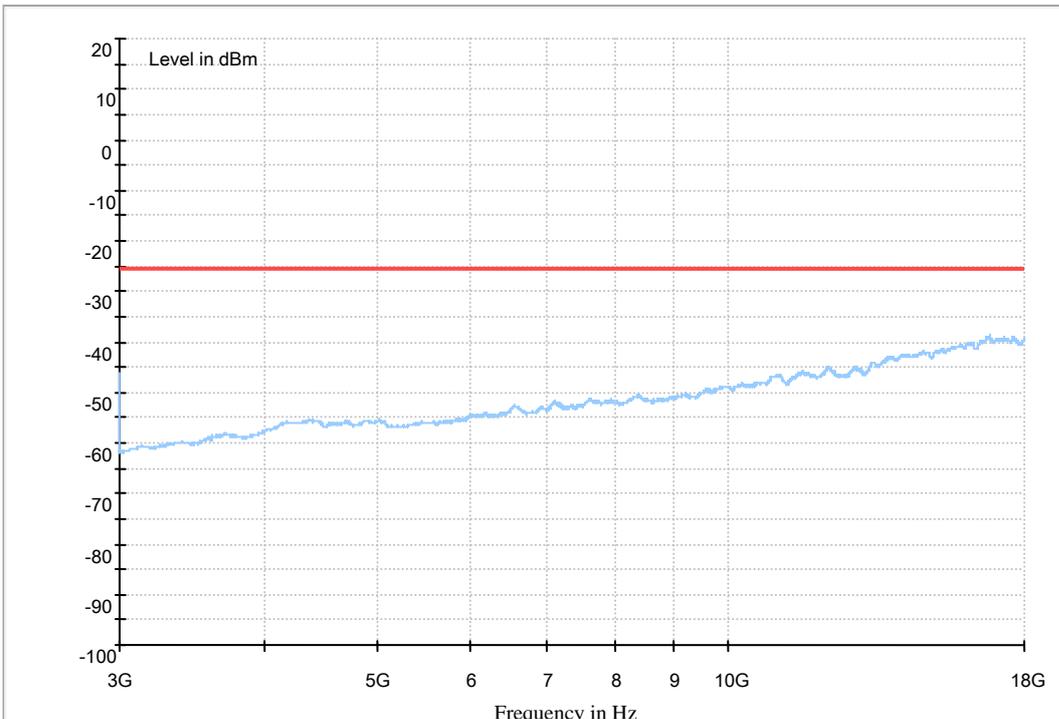
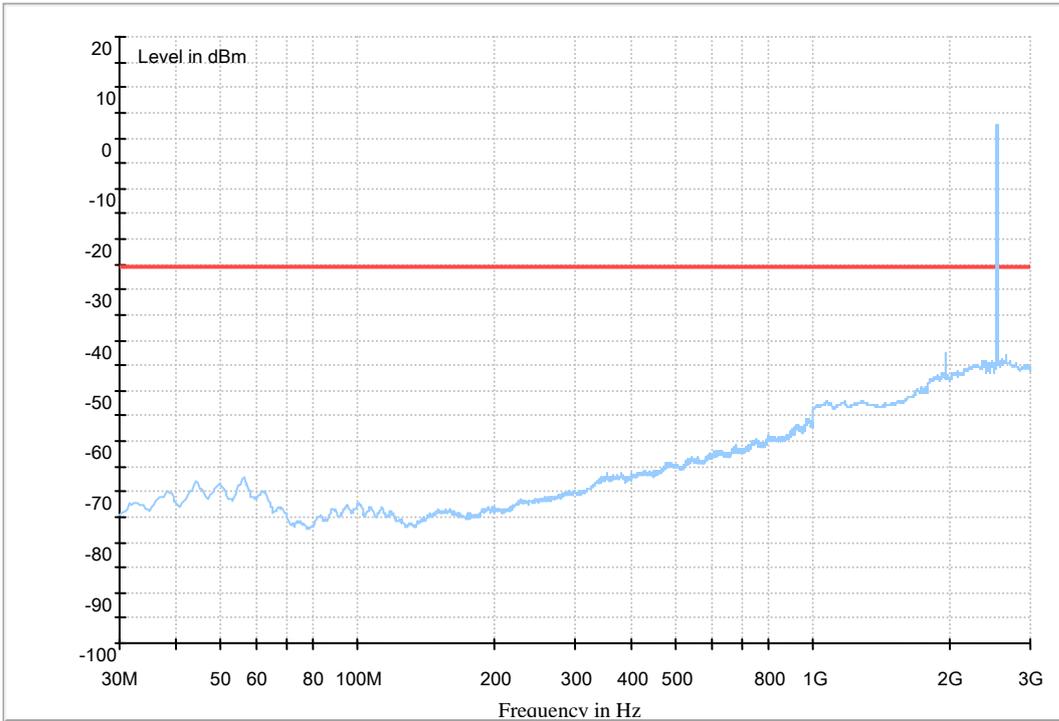


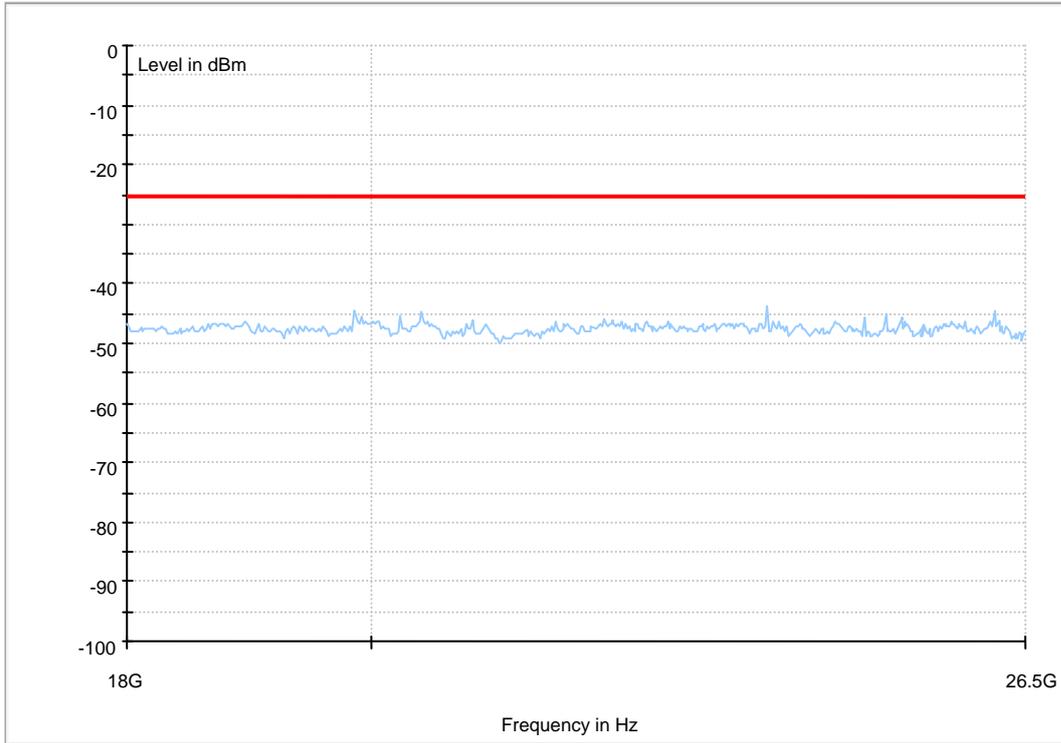




7.3.1.2 Test Bandwidth = 20







8Appendix_H: Frequency Stability

8.1 For GSM

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-9.23	-0.0112	±2.5	PASS
				VN	-4.78	-0.0058	±2.5	PASS
				VH	-2.65	-0.00322	±2.5	PASS
		MCH	TN	VL	-6.97	-0.00833	±2.5	PASS
				VN	-5.17	-0.00618	±2.5	PASS
				VH	-11.56	-0.01382	±2.5	PASS
		HCH	TN	VL	-5.23	-0.00616	±2.5	PASS
				VN	-2.97	-0.0035	±2.5	PASS
				VH	-10.01	-0.01179	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-6.62	-0.00803	±2.5	PASS
				VN	-10.11	-0.01227	±2.5	PASS
				VH	-3.16	-0.00383	±2.5	PASS
		MCH	TN	VL	-5.75	-0.00687	±2.5	PASS
				VN	-11.33	-0.01354	±2.5	PASS
				VH	-8.39	-0.01003	±2.5	PASS
		HCH	TN	VL	-8.59	-0.01012	±2.5	PASS
				VN	-4	-0.00471	±2.5	PASS
				VH	-8.78	-0.01034	±2.5	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-11.11	-0.006	±2.5	PASS
				VN	-20.73	-0.0112	±2.5	PASS
				VH	-11.69	-0.00632	±2.5	PASS
		MCH	TN	VL	-15.3	-0.00814	±2.5	PASS
				VN	-22.28	-0.01185	±2.5	PASS
				VH	-11.04	-0.00587	±2.5	PASS
		HCH	TN	VL	-14.08	-0.00737	±2.5	PASS
				VN	-7.36	-0.00385	±2.5	PASS
				VH	-6.01	-0.00315	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-8.39	-0.00453	±2.5	PASS
				VN	-17.63	-0.00953	±2.5	PASS
				VH	-13.4	-0.00724	±2.5	PASS



Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
		MCH	TN	VL	-12.07	-0.00642	±2.5	PASS
				VN	-14.43	-0.00768	±2.5	PASS
				VH	-15.98	-0.0085	±2.5	PASS
		HCH	TN	VL	-7.46	-0.00391	±2.5	PASS
				VN	-7.23	-0.00379	±2.5	PASS
				VH	-19.08	-0.00999	±2.5	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict	
GSM850	GSM/TM1	LCH	VN	-30	-10.14	-0.0123	±2.5	PASS	
				-20	-11.49	-0.01394	±2.5	PASS	
				-10	-4.07	-0.00494	±2.5	PASS	
				0	-7.43	-0.00901	±2.5	PASS	
				10	-7.55	-0.00916	±2.5	PASS	
				20	-12.53	-0.0152	±2.5	PASS	
				30	-1.87	-0.00227	±2.5	PASS	
				40	-2.13	-0.00258	±2.5	PASS	
		50	-0.97	-0.00118	±2.5	PASS			
		MCH	VN	-30	-1.03	-0.00123	±2.5	PASS	
				-20	-3.42	-0.00409	±2.5	PASS	
				-10	4.39	0.00525	±2.5	PASS	
				0	-6.01	-0.00718	±2.5	PASS	
				10	-2.07	-0.00247	±2.5	PASS	
				20	-8.78	-0.01049	±2.5	PASS	
				30	-8.52	-0.01018	±2.5	PASS	
				40	-0.71	-0.00085	±2.5	PASS	
		50	-7.3	-0.00873	±2.5	PASS			
		HCH	VN	-30	-2.07	-0.00244	±2.5	PASS	
				-20	-8.98	-0.01058	±2.5	PASS	
				-10	-11.62	-0.01369	±2.5	PASS	
				0	-10.53	-0.01241	±2.5	PASS	
				10	-4.2	-0.00495	±2.5	PASS	
				20	-3.94	-0.00464	±2.5	PASS	
				30	-8.52	-0.01004	±2.5	PASS	
				40	-4.71	-0.00555	±2.5	PASS	
		50	-1.1	-0.0013	±2.5	PASS			
		GSM/TM2	LCH	VN	-30	-11.24	-0.01364	±2.5	PASS
					-20	-6.91	-0.00838	±2.5	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict		
				-10	-11.69	-0.01418	±2.5	PASS		
				0	-8.17	-0.00991	±2.5	PASS		
				10	4.16	0.00497	±2.5	PASS		
				20	-8.01	-0.00972	±2.5	PASS		
				30	-4.04	-0.0049	±2.5	PASS		
				40	-1.45	-0.00176	±2.5	PASS		
				50	-8.59	-0.01042	±2.5	PASS		
		MCH	VN	-30	-8.78	-0.01049	±2.5	PASS		
				-20	-7.59	-0.00907	±2.5	PASS		
				-10	-7.65	-0.00914	±2.5	PASS		
				0	-4.16	-0.00497	±2.5	PASS		
				10	-11.01	-0.01316	±2.5	PASS		
				20	-8.04	-0.00961	±2.5	PASS		
				30	-7.94	-0.00949	±2.5	PASS		
				40	-3.13	-0.00374	±2.5	PASS		
		HCH	VN	-30	-6.81	-0.00802	±2.5	PASS		
				-20	-6.33	-0.00746	±2.5	PASS		
				-10	-8.91	-0.0105	±2.5	PASS		
				0	-9.43	-0.01111	±2.5	PASS		
				10	-9.88	-0.01164	±2.5	PASS		
				20	-10.33	-0.01217	±2.5	PASS		
				30	-10.82	-0.01275	±2.5	PASS		
				40	-12.53	-0.01476	±2.5	PASS		
		GSM1900	GSM/TM1	LCH	VN	-30	-10.27	-0.00555	±2.5	PASS
						-20	-5.62	-0.00304	±2.5	PASS
						-10	-17.24	-0.00932	±2.5	PASS
						0	-12.53	-0.00677	±2.5	PASS
10	-11.82					-0.00639	±2.5	PASS		
20	-18.34					-0.00991	±2.5	PASS		
30	-9.04					-0.00489	±2.5	PASS		
40	-12.59			-0.0068	±2.5	PASS				
50	-23.25			-0.01257	±2.5	PASS				
MCH	VN			-30	-20.79	-0.01106	±2.5	PASS		
				-20	-12.07	-0.00642	±2.5	PASS		
				-10	-10.07	-0.00536	±2.5	PASS		
				0	-13.5	-0.00718	±2.5	PASS		
				10	-0.65	-0.00035	±2.5	PASS		
		20	-22.66	-0.01205	±2.5	PASS				



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict		
				30	-18.02	-0.00959	±2.5	PASS		
				40	-9.69	-0.00515	±2.5	PASS		
				50	-9.17	-0.00488	±2.5	PASS		
		HCH	VN			-30	-19.18	-0.01004	±2.5	PASS
						-20	-14.21	-0.00744	±2.5	PASS
						-10	-19.24	-0.01007	±2.5	PASS
						0	-19.11	-0.01001	±2.5	PASS
						10	-21.44	-0.01123	±2.5	PASS
						20	-13.43	-0.00703	±2.5	PASS
						30	-9.36	-0.0049	±2.5	PASS
						40	-4.91	-0.00257	±2.5	PASS
						50	-17.11	-0.00896	±2.5	PASS
GSM1900	GSM/TM2	LCH	VN	-30	-13.11	-0.00709	±2.5	PASS		
				-20	-22.89	-0.01237	±2.5	PASS		
				-10	-9.17	-0.00496	±2.5	PASS		
				0	-12.66	-0.00684	±2.5	PASS		
				10	-12.75	-0.00689	±2.5	PASS		
				20	-22.57	-0.0122	±2.5	PASS		
				30	-17.79	-0.00962	±2.5	PASS		
				40	-14.69	-0.00794	±2.5	PASS		
		MCH	VN			50	-15.79	-0.00853	±2.5	PASS
						-30	-7.3	-0.00388	±2.5	PASS
						-20	-13.92	-0.0074	±2.5	PASS
						-10	-19.86	-0.01056	±2.5	PASS
						0	-11.88	-0.00632	±2.5	PASS
						10	5.71	0.00304	±2.5	PASS
						20	-4.39	-0.00234	±2.5	PASS
						30	-7.49	-0.00398	±2.5	PASS
		HCH	VN			40	-4.88	-0.0026	±2.5	PASS
						50	-5.68	-0.00302	±2.5	PASS
						-30	-7.78	-0.00407	±2.5	PASS
						-20	-18.02	-0.00944	±2.5	PASS
						-10	-19.31	-0.01011	±2.5	PASS
						0	-4.97	-0.0026	±2.5	PASS
						10	0.06	0.00003	±2.5	PASS
						20	-23.21	-0.01215	±2.5	PASS
				30	-9.65	-0.00505	±2.5	PASS		
				40	-7.85	-0.00411	±2.5	PASS		
				50	-5.65	-0.00296	±2.5	PASS		

8.2 For UMTS

8.2.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	-0.92	-0.00111	±2.5	PASS
				VN	1.3	0.00157	±2.5	PASS
				VH	1.24	0.0015	±2.5	PASS
		MCH	TN	VL	0.76	0.00091	±2.5	PASS
				VN	1.24	0.00148	±2.5	PASS
				VH	0.61	0.00073	±2.5	PASS
		HCH	TN	VL	-2.38	-0.00281	±2.5	PASS
				VN	-2.37	-0.0028	±2.5	PASS
				VH	-0.2	-0.00024	±2.5	PASS

8.2.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	-0.93	-0.00113	±2.5	PASS
				-20	2.98	0.00361	±2.5	PASS
				-10	0.52	0.00063	±2.5	PASS
				0	-0.31	-0.00038	±2.5	PASS
				10	2.15	0.0026	±2.5	PASS
				20	3.54	0.00428	±2.5	PASS
				30	0.29	0.00035	±2.5	PASS
				40	0.18	0.00022	±2.5	PASS
				50	0.15	0.00018	±2.5	PASS
		MCH	VN	-30	-0.29	-0.00035	±2.5	PASS
				-20	1.17	0.0014	±2.5	PASS
				-10	-0.08	-0.0001	±2.5	PASS
				0	-3.63	-0.00434	±2.5	PASS
				10	0.09	0.00011	±2.5	PASS
				20	1.25	0.00149	±2.5	PASS
				30	0.81	0.00097	±2.5	PASS
				40	0.5	0.0006	±2.5	PASS
				50	-0.58	-0.00069	±2.5	PASS
		HCH	VN	-30	-1.36	-0.00161	±2.5	PASS
				-20	-1.17	-0.00138	±2.5	PASS
				-10	-0.69	-0.00082	±2.5	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				0	-2.59	-0.00306	±2.5	PASS
				10	-2.24	-0.00265	±2.5	PASS
				20	0.18	0.00021	±2.5	PASS
				30	-0.14	-0.00017	±2.5	PASS
				40	-1.11	-0.00131	±2.5	PASS
				50	-1.53	-0.00181	±2.5	PASS

8.3 For LTE

8.3.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
BAND7	LTE/TM1	5	LCH	TN	VL	-20.99	-0.00839	±2.5	PASS
					VN	-22.67	-0.00906	±2.5	PASS
					VH	-20.21	-0.00808	±2.5	PASS
			MCH	TN	VL	-11.2	-0.00442	±2.5	PASS
					VN	-12.46	-0.00492	±2.5	PASS
					VH	-13.13	-0.00518	±2.5	PASS
			HCH	TN	VL	0.99	0.00039	±2.5	PASS
					VN	0.76	0.0003	±2.5	PASS
					VH	-1.37	-0.00053	±2.5	PASS
		10	LCH	TN	VL	7.67	0.00306	±2.5	PASS
					VN	6.74	0.00269	±2.5	PASS
					VH	5.69	0.00227	±2.5	PASS
			MCH	TN	VL	-14.85	-0.00586	±2.5	PASS
					VN	-12.17	-0.0048	±2.5	PASS
					VH	-19.87	-0.00784	±2.5	PASS
			HCH	TN	VL	-10.23	-0.00399	±2.5	PASS
					VN	-9.97	-0.00389	±2.5	PASS
					VH	-10.77	-0.0042	±2.5	PASS
		15	LCH	TN	VL	7.81	0.00311	±2.5	PASS
					VN	8.61	0.00343	±2.5	PASS
					VH	8.77	0.0035	±2.5	PASS
			MCH	TN	VL	-19.43	-0.00766	±2.5	PASS
					VN	-15.35	-0.00606	±2.5	PASS
					VH	-19.45	-0.00767	±2.5	PASS
HCH	TN		VL	-9.44	-0.00368	±2.5	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict	
		20	LCH	TN	VN	-10.86	-0.00424	±2.5	PASS	
					VH	-9.68	-0.00378	±2.5	PASS	
					VL	-17.78	-0.00708	±2.5	PASS	
			MCH	TN	VN	-19.07	-0.0076	±2.5	PASS	
					VH	-17.68	-0.00704	±2.5	PASS	
					VL	-12.63	-0.00498	±2.5	PASS	
		HCH	TN	VN	-12.87	-0.00508	±2.5	PASS		
				VH	-12.52	-0.00494	±2.5	PASS		
				VL	-8.94	-0.00349	±2.5	PASS		
		LTE/TM2	5	LCH	TN	VN	-22.24	-0.00889	±2.5	PASS
						VH	-23.53	-0.0094	±2.5	PASS
						VL	-22.63	-0.00904	±2.5	PASS
				MCH	TN	VN	-13.85	-0.00546	±2.5	PASS
						VH	-13.86	-0.00547	±2.5	PASS
						VL	-15.56	-0.00614	±2.5	PASS
	HCH			TN	VN	-1.83	-0.00071	±2.5	PASS	
					VH	-2.65	-0.00103	±2.5	PASS	
					VL	-2.35	-0.00092	±2.5	PASS	
	10		LCH	TN	VN	6.37	0.00254	±2.5	PASS	
					VH	5.05	0.00202	±2.5	PASS	
					VL	4.89	0.00195	±2.5	PASS	
			MCH	TN	VN	-18.61	-0.00734	±2.5	PASS	
					VH	-16.71	-0.00659	±2.5	PASS	
					VL	-12.43	-0.0049	±2.5	PASS	
			HCH	TN	VN	-8.8	-0.00343	±2.5	PASS	
					VH	-9.87	-0.00385	±2.5	PASS	
		VL			-9.13	-0.00356	±2.5	PASS		
	15	LCH	TN	VN	9	0.00359	±2.5	PASS		
				VH	8.53	0.0034	±2.5	PASS		
				VL	8.54	0.00341	±2.5	PASS		
		MCH	TN	VN	-16.95	-0.00669	±2.5	PASS		
				VH	-17.92	-0.00707	±2.5	PASS		
				VL	-19.8	-0.00781	±2.5	PASS		
		HCH	TN	VN	-13.43	-0.00524	±2.5	PASS		
				VH	-12.75	-0.00498	±2.5	PASS		
				VL	-12.33	-0.00481	±2.5	PASS		
	20	LCH	TN	VL	-20.71	-0.00825	±2.5	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
			MCH	TN	VN	-21.9	-0.00873	±2.5	PASS
					VH	-21.44	-0.00854	±2.5	PASS
					VL	-17.32	-0.00683	±2.5	PASS
					VN	-17.5	-0.0069	±2.5	PASS
			HCH	TN	VL	-15.16	-0.00592	±2.5	PASS
					VN	-7.25	-0.00283	±2.5	PASS
					VH	-14.73	-0.00575	±2.5	PASS

8.3.2 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
BAND7	LTE/TM1	5	LCH	VN	-30	-21.66	-0.00866	±2.5	PASS
					-20	-14.91	-0.00596	±2.5	PASS
					-10	-6.94	-0.00277	±2.5	PASS
					0	-10.29	-0.00411	±2.5	PASS
					10	4.66	0.00186	±2.5	PASS
					20	-6.97	-0.00279	±2.5	PASS
					30	4.79	0.00191	±2.5	PASS
					40	2.7	0.00108	±2.5	PASS
					50	2.86	0.00114	±2.5	PASS
			MCH	VN	-30	-15.48	-0.00611	±2.5	PASS
					-20	-15.46	-0.0061	±2.5	PASS
					-10	-17.02	-0.00671	±2.5	PASS
					0	-16.02	-0.00632	±2.5	PASS
					10	-15.62	-0.00616	±2.5	PASS
					20	-16.75	-0.00661	±2.5	PASS
					30	-15.88	-0.00626	±2.5	PASS
					40	-15.75	-0.00621	±2.5	PASS
					50	-16.21	-0.00639	±2.5	PASS
			HCH	VN	-30	-2.4	-0.00093	±2.5	PASS
					-20	-2.55	-0.00099	±2.5	PASS
					-10	-2.26	-0.00088	±2.5	PASS
					0	-2.6	-0.00101	±2.5	PASS
					10	-2.25	-0.00088	±2.5	PASS
					20	-2.53	-0.00099	±2.5	PASS
30	-4.08	-0.00159			±2.5	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
					40	-2.57	-0.001	±2.5	PASS
					50	-3.16	-0.00123	±2.5	PASS
		10	LCH	VN	-30	8.28	0.00331	±2.5	PASS
					-20	8.55	0.00341	±2.5	PASS
					-10	8.38	0.00335	±2.5	PASS
					0	6.47	0.00258	±2.5	PASS
					10	7.4	0.00295	±2.5	PASS
					20	7.88	0.00315	±2.5	PASS
					30	7.28	0.00291	±2.5	PASS
					40	7.75	0.00309	±2.5	PASS
					50	6.95	0.00277	±2.5	PASS
					MCH	VN	-30	-16.48	-0.0065
			-20	-17.75			-0.007	±2.5	PASS
			-10	-16.88			-0.00666	±2.5	PASS
			0	-17.84			-0.00704	±2.5	PASS
			10	-16.82			-0.00664	±2.5	PASS
			20	-16.57			-0.00654	±2.5	PASS
			30	-15.69			-0.00619	±2.5	PASS
			40	-17.85			-0.00704	±2.5	PASS
			HCH	VN	-30	-5.49	-0.00214	±2.5	PASS
		-20			-6.68	-0.0026	±2.5	PASS	
		-10			-6.22	-0.00242	±2.5	PASS	
		0			-6.79	-0.00265	±2.5	PASS	
		10			-7	-0.00273	±2.5	PASS	
		20			-6.55	-0.00255	±2.5	PASS	
		30			-6.9	-0.00269	±2.5	PASS	
		40			-5.29	-0.00206	±2.5	PASS	
		15	LCH	VN	-30	13.45	0.00536	±2.5	PASS
					-20	13.03	0.0052	±2.5	PASS
					-10	12.4	0.00495	±2.5	PASS
					0	14.1	0.00562	±2.5	PASS
					10	13.5	0.00538	±2.5	PASS
					20	12.73	0.00508	±2.5	PASS
					30	13.69	0.00546	±2.5	PASS
					40	14.78	0.00589	±2.5	PASS
					50	15.08	0.00601	±2.5	PASS
					MCH	VN	-30	-12.46	-0.00492



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict		
					-20	-12.06	-0.00476	±2.5	PASS		
					-10	-11.04	-0.00436	±2.5	PASS		
					0	-10.63	-0.00419	±2.5	PASS		
					10	-10.39	-0.0041	±2.5	PASS		
					20	-10.24	-0.00404	±2.5	PASS		
					30	-10.66	-0.00421	±2.5	PASS		
					40	-9.34	-0.00368	±2.5	PASS		
					50	-9.61	-0.00379	±2.5	PASS		
			HCH	VN	-30	-2.32	-0.00091	±2.5	PASS		
					-20	-3.3	-0.00129	±2.5	PASS		
					-10	-3.03	-0.00118	±2.5	PASS		
					0	-3.89	-0.00152	±2.5	PASS		
					10	-3.09	-0.00121	±2.5	PASS		
					20	-4.51	-0.00176	±2.5	PASS		
					30	-2.33	-0.00091	±2.5	PASS		
					40	-3.03	-0.00118	±2.5	PASS		
			LCH	VN	-30	-9.54	-0.0038	±2.5	PASS		
					-20	-11.86	-0.00473	±2.5	PASS		
					-10	-10.27	-0.00409	±2.5	PASS		
					0	-9.77	-0.00389	±2.5	PASS		
					10	-9.03	-0.0036	±2.5	PASS		
					20	-8.48	-0.00338	±2.5	PASS		
					30	-10.76	-0.00429	±2.5	PASS		
					40	-7.71	-0.00307	±2.5	PASS		
			MCH	VN	-30	-3.85	-0.00152	±2.5	PASS		
					-20	-4.25	-0.00168	±2.5	PASS		
					-10	-3.93	-0.00155	±2.5	PASS		
					0	-3.6	-0.00142	±2.5	PASS		
		10			-3.65	-0.00144	±2.5	PASS			
		20			-2.75	-0.00108	±2.5	PASS			
		30			-3.58	-0.00141	±2.5	PASS			
		40			-2.85	-0.00112	±2.5	PASS			
		HCH	VN	-30	-0.04	-0.00002	±2.5	PASS			
				-20	-0.69	-0.00027	±2.5	PASS			
				-10	-2.62	-0.00102	±2.5	PASS			
				0	1.56	0.00061	±2.5	PASS			
				20			-30	-9.54	-0.0038	±2.5	PASS
							-20	-11.86	-0.00473	±2.5	PASS
							-10	-10.27	-0.00409	±2.5	PASS
							0	-9.77	-0.00389	±2.5	PASS
10	-9.03						-0.0036	±2.5	PASS		
20	-8.48						-0.00338	±2.5	PASS		
30	-10.76						-0.00429	±2.5	PASS		
40	-7.71						-0.00307	±2.5	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict						
					10	0.09	0.00004	±2.5	PASS						
					20	9.14	0.00357	±2.5	PASS						
					30	-0.51	-0.0002	±2.5	PASS						
					40	16.57	0.00647	±2.5	PASS						
					50	-0.47	-0.00018	±2.5	PASS						
					LCH	VN	5			-30	-3.12	-0.00125	±2.5	PASS	
										-20	3.15	0.00126	±2.5	PASS	
										-10	-5.97	-0.00239	±2.5	PASS	
										0	-15.68	-0.00627	±2.5	PASS	
										10	2.96	0.00118	±2.5	PASS	
	20	-14.05	-0.00561	±2.5						PASS					
	30	-13.92	-0.00556	±2.5						PASS					
	40	3.05	0.00122	±2.5						PASS					
	50	-4.75	-0.0019	±2.5						PASS					
	MCH	VN	5								-30	-8	-0.00316	±2.5	PASS
											-20	-9.26	-0.00365	±2.5	PASS
											-10	-11.2	-0.00442	±2.5	PASS
											0	-11.04	-0.00436	±2.5	PASS
											10	-12.86	-0.00507	±2.5	PASS
											20	-12.02	-0.00474	±2.5	PASS
											30	-11.33	-0.00447	±2.5	PASS
											40	-11.07	-0.00437	±2.5	PASS
	HCH	VN	5								50	-10.4	-0.0041	±2.5	PASS
					-30	9.77	0.00381	±2.5	PASS						
					-20	10.94	0.00426	±2.5	PASS						
					-10	12.77	0.00497	±2.5	PASS						
					0	13.85	0.00539	±2.5	PASS						
					10	13.96	0.00544	±2.5	PASS						
					20	16.99	0.00662	±2.5	PASS						
					30	7.47	0.00291	±2.5	PASS						
	LCH	VN	10			40	-9.4	-0.00366	±2.5	PASS					
						50	-10.64	-0.00414	±2.5	PASS					
						-30	7.48	0.00299	±2.5	PASS					
-20						9.77	0.0039	±2.5	PASS						
-10						9.63	0.00384	±2.5	PASS						
0						13.75	0.00549	±2.5	PASS						
10						10.1	0.00403	±2.5	PASS						
20	4.11	0.00164	±2.5	PASS											
30	-2.98	-0.00119	±2.5	PASS											



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
					40	-18.61	-0.00743	±2.5	PASS
					50	-17.74	-0.00708	±2.5	PASS
			MCH	VN	-30	-0.5	-0.0002	±2.5	PASS
					-20	0.54	0.00021	±2.5	PASS
					-10	-0.51	-0.0002	±2.5	PASS
					0	1.47	0.00058	±2.5	PASS
					10	4.55	0.00179	±2.5	PASS
					20	5.51	0.00217	±2.5	PASS
					30	7.21	0.00284	±2.5	PASS
					40	8.7	0.00343	±2.5	PASS
					50	6.58	0.0026	±2.5	PASS
					HCH	VN	-30	-5.98	-0.00233
			-20	-6.04			-0.00235	±2.5	PASS
			-10	-4.12			-0.00161	±2.5	PASS
			0	-2.78			-0.00108	±2.5	PASS
			10	0.11			0.00004	±2.5	PASS
			20	1.33			0.00052	±2.5	PASS
			30	1.83			0.00071	±2.5	PASS
			40	4.19			0.00163	±2.5	PASS
			LCH	VN	-30	-8.58	-0.00342	±2.5	PASS
		-20			-8.1	-0.00323	±2.5	PASS	
		-10			-7.97	-0.00318	±2.5	PASS	
		0			-9.28	-0.0037	±2.5	PASS	
		10			-8.94	-0.00357	±2.5	PASS	
		20			-9.47	-0.00378	±2.5	PASS	
		30			-10.53	-0.0042	±2.5	PASS	
		40			-11.23	-0.00448	±2.5	PASS	
		50			-10.84	-0.00432	±2.5	PASS	
		MCH			VN	-30	-3.76	-0.00148	±2.5
			-20	-3.79		-0.0015	±2.5	PASS	
			-10	-5.44		-0.00215	±2.5	PASS	
			0	-4.85		-0.00191	±2.5	PASS	
			10	-4.36		-0.00172	±2.5	PASS	
			20	-2.8		-0.0011	±2.5	PASS	
			30	-2.49		-0.00098	±2.5	PASS	
			40	-1.8		-0.00071	±2.5	PASS	
			50	-1.76		-0.00069	±2.5	PASS	
			HCH	VN		-30	-18.77	-0.00732	±2.5



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict		
					-20	-19	-0.00741	±2.5	PASS		
					-10	-17.74	-0.00692	±2.5	PASS		
					0	-25.43	-0.00992	±2.5	PASS		
					10	-25.65	-0.01001	±2.5	PASS		
					20	-24.2	-0.00944	±2.5	PASS		
					30	-23.19	-0.00905	±2.5	PASS		
					40	-24.03	-0.00938	±2.5	PASS		
					50	-22.86	-0.00892	±2.5	PASS		
		20	LCH	VN	-30	3.62	0.00144	±2.5	PASS		
					-20	7.18	0.00286	±2.5	PASS		
					-10	6.19	0.00247	±2.5	PASS		
					0	5.05	0.00201	±2.5	PASS		
					10	5.82	0.00232	±2.5	PASS		
					20	5.56	0.00222	±2.5	PASS		
					30	4.81	0.00192	±2.5	PASS		
					40	4.21	0.00168	±2.5	PASS		
					50	3.95	0.00157	±2.5	PASS		
					MCH	VN	-30	6.14	0.00242	±2.5	PASS
							-20	5.58	0.0022	±2.5	PASS
							-10	6.29	0.00248	±2.5	PASS
			0	5.72			0.00226	±2.5	PASS		
			10	5.75			0.00227	±2.5	PASS		
			20	6.72			0.00265	±2.5	PASS		
			30	7.17			0.00283	±2.5	PASS		
			40	6.24			0.00246	±2.5	PASS		
			HCH	VN	-30	11.99	0.00468	±2.5	PASS		
					-20	13.75	0.00537	±2.5	PASS		
					-10	13.46	0.00526	±2.5	PASS		
					0	12.72	0.00497	±2.5	PASS		
					10	14.71	0.00575	±2.5	PASS		
					20	13.78	0.00538	±2.5	PASS		
					30	14.49	0.00566	±2.5	PASS		
		40			13.56	0.0053	±2.5	PASS			
		50	14.93	0.00583	±2.5	PASS					

END