



Appendix for Test report

1 Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	32.45	31.26	38.5	PASS
		MCH	32.34	31.15	38.5	PASS
		HCH	32.52	31.33	38.5	PASS
	GSM/TM2	LCH	25.98	24.79	38.5	PASS
		MCH	26.01	24.82	38.5	PASS
		HCH	25.99	24.8	38.5	PASS
WCDMA850	UMTS/TM1	LCH	22.95	21.76	38.5	PASS
		MCH	22.89	21.7	38.5	PASS
		HCH	22.71	21.52	38.5	PASS
Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	29.95	31.03	33	PASS
		MCH	29.73	30.81	33	PASS
		HCH	29.63	30.71	33	PASS
	GSM/TM2	LCH	25.46	26.54	33	PASS
		MCH	25.46	26.54	33	PASS
		HCH	25.41	26.49	33	PASS
WCDMA1900	UMTS/TM1	LCH	22.76	23.84	33	PASS
		MCH	22.98	24.06	33	PASS
		HCH	22.87	23.95	33	PASS

Note1: a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM1900	GSM/TM1	LCH	0.12	13	PASS
		MCH	0.12	13	PASS
		HCH	0.12	13	PASS
	GSM/TM2	LCH	3.19	13	PASS
		MCH	3.19	13	PASS
		HCH	3.13	13	PASS
	GSM/TM1	LCH	0.11	13	PASS
		MCH	0.11	13	PASS
		HCH	0.12	13	PASS
	GSM/TM2	LCH	3.18	13	PASS
		MCH	3.14	13	PASS
		HCH	3.23	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA1900	UMTS/TM1	LCH	3.22	13	PASS
		MCH	3.46	13	PASS
		HCH	3.41	13	PASS
	UMTS/TM2	LCH	3.41	13	PASS
		MCH	3.48	13	PASS
		HCH	3.45	13	PASS

3Appendix_C: Modulation Characteristics

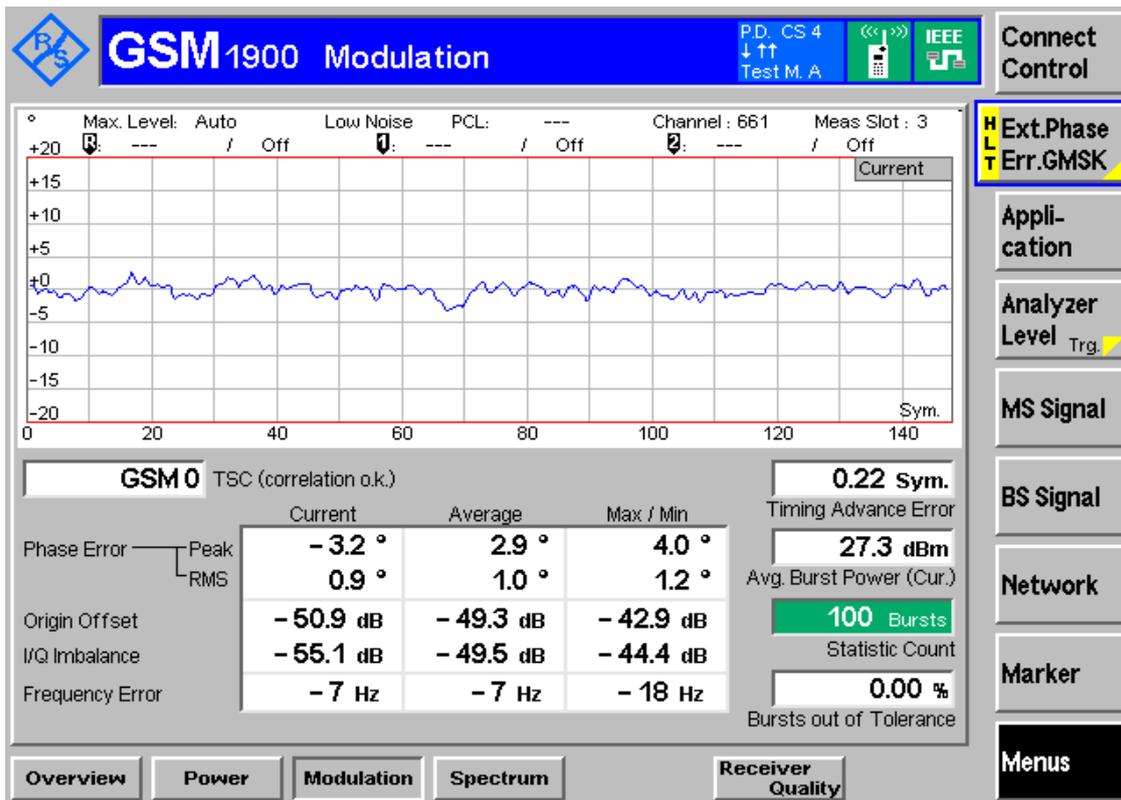
Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM1900

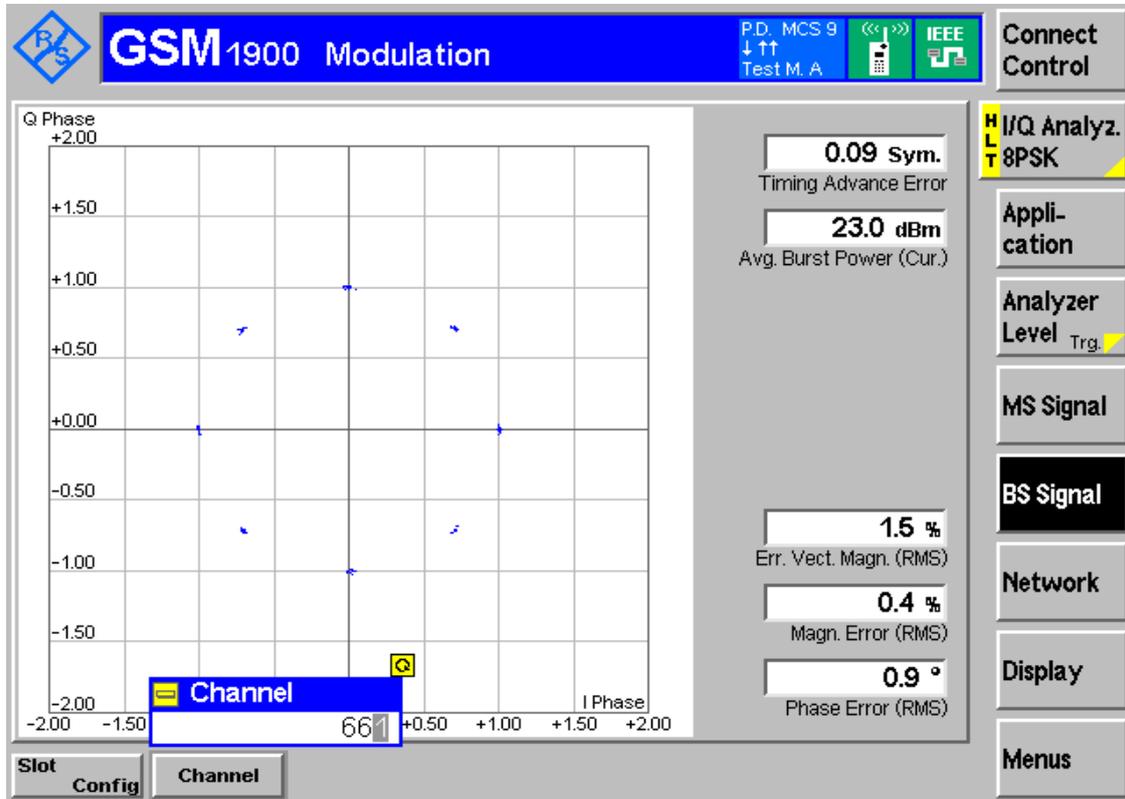
3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = GSM/TM2

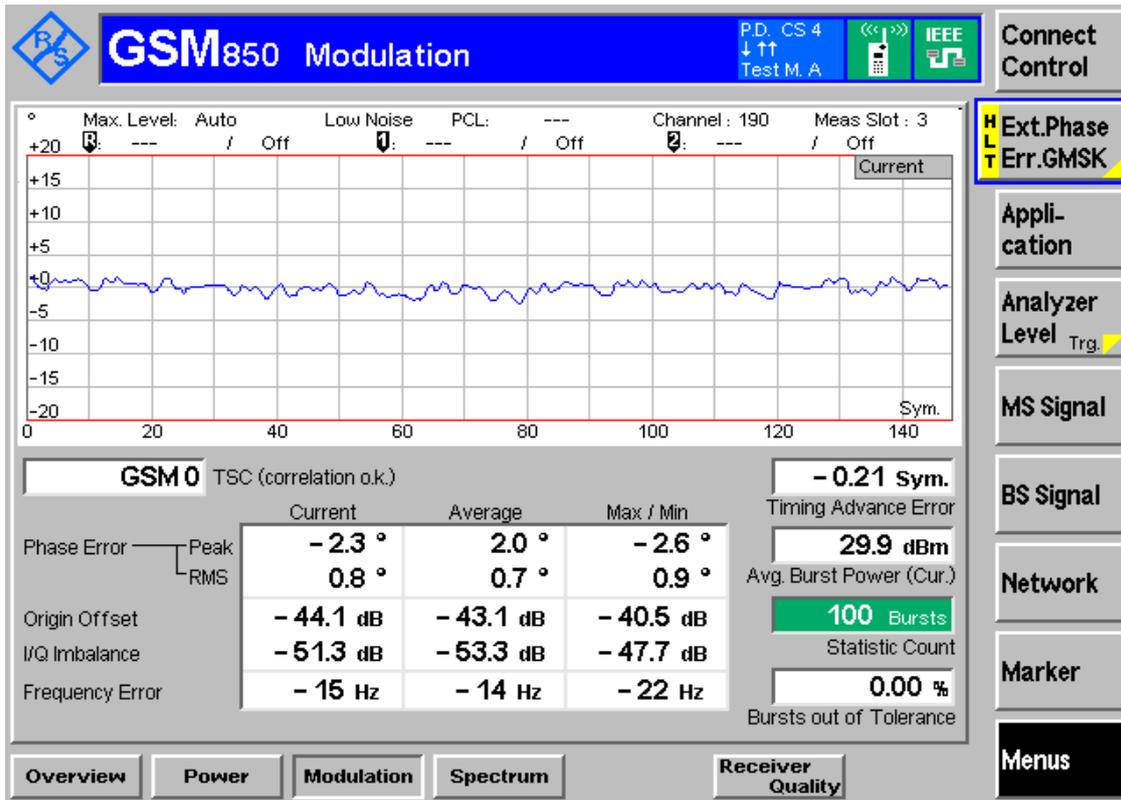
3.1.1.2.1 Test Channel = MCH



3.1.2 Test Band = GSM850

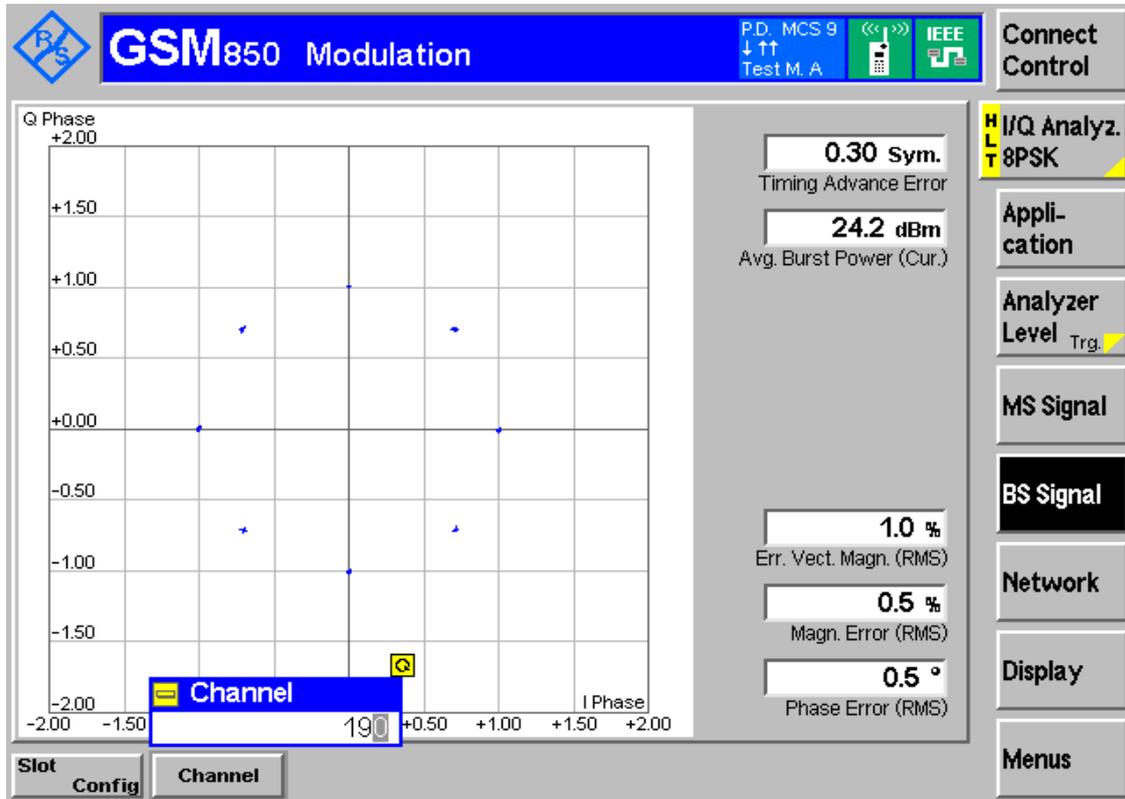
3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH

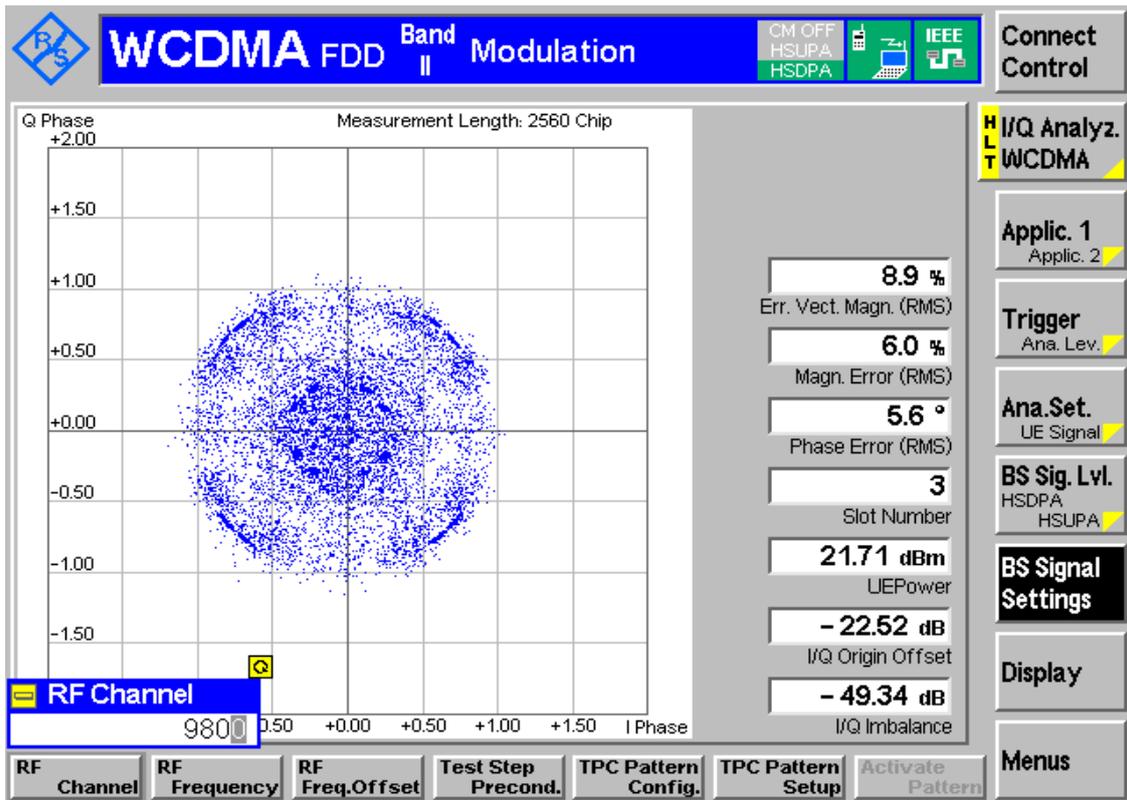


3.2 For UMTS

3.2.1 Test Band = WCDMA1900

3.2.1.1 Test Mode = UMTS/TM1

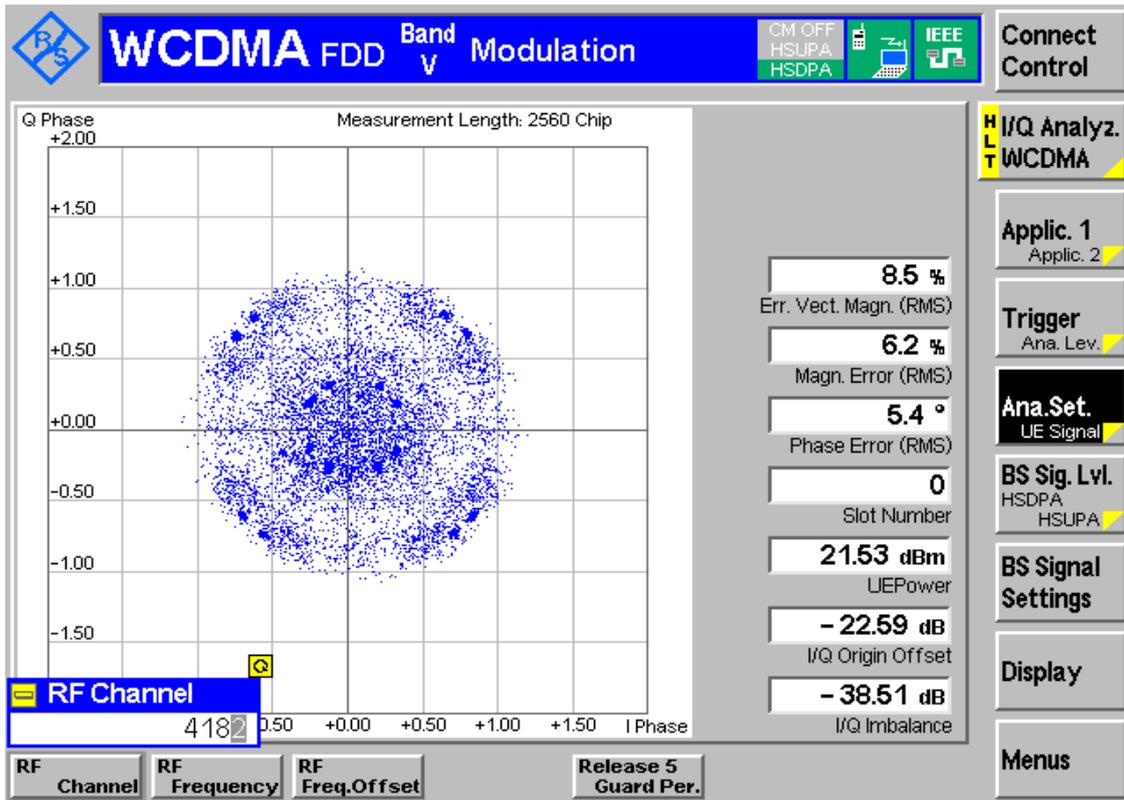
3.2.1.1.1 Test Channel = MCH



3.2.2 Test Band = WCDMA850

3.2.2.1 Test Mode = UMTS/TM1

3.2.2.1.1 Test Channel = MCH



4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM1900	GSM/TM1	LCH	242.86	311.08	Pass
		MCH	243.40	313.95	Pass
		HCH	244.77	313.42	Pass
	GSM/TM2	LCH	242.53	299.97	Pass
		MCH	242.61	309.51	Pass
		HCH	242.58	307.82	Pass
GSM850	GSM/TM1	LCH	244.94	314.31	Pass
		MCH	241.74	316.68	Pass
		HCH	243.81	318.35	Pass
	GSM/TM2	LCH	243.49	308.10	Pass
		MCH	236.22	306.64	Pass
		HCH	244.79	313.65	Pass
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA1900	UMTS/TM1	LCH	4.18	4.67	Pass
		MCH	4.18	4.69	Pass
		HCH	4.16	4.67	Pass
WCDMA850	UMTS/TM1	LCH	4.18	4.68	Pass
		MCH	4.20	4.70	Pass
		HCH	4.20	4.68	Pass

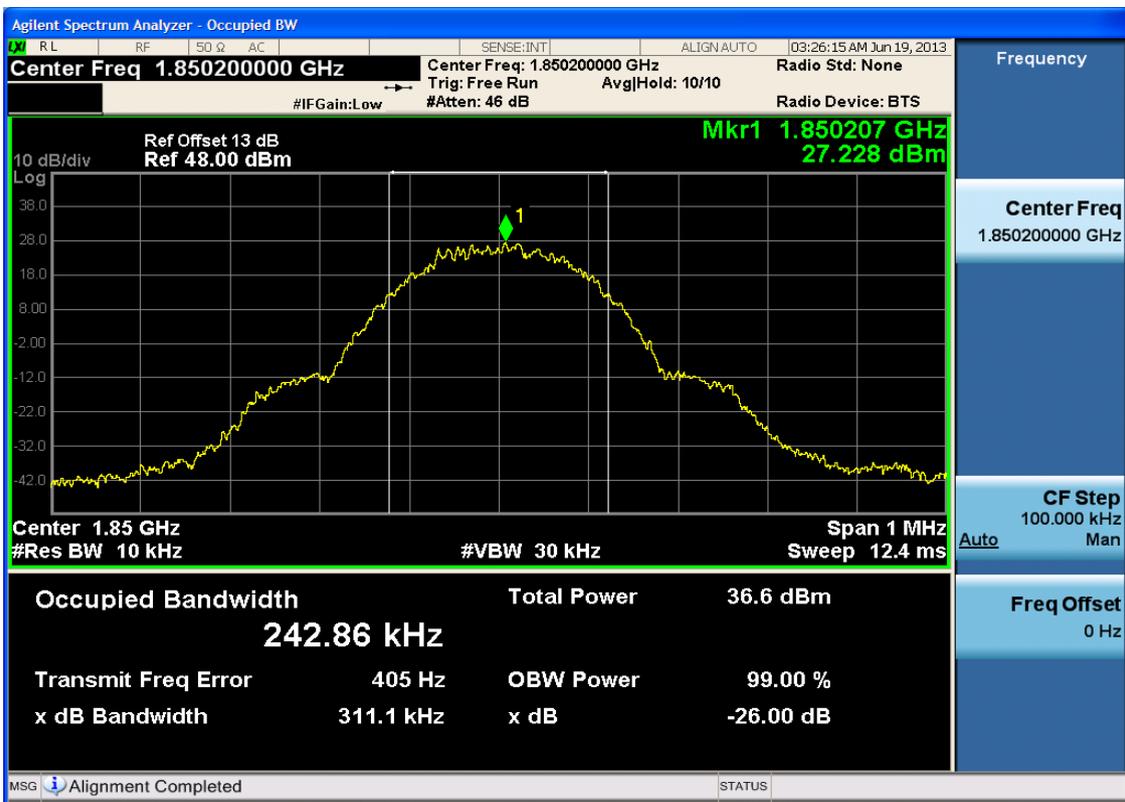
Part II - Test Plots

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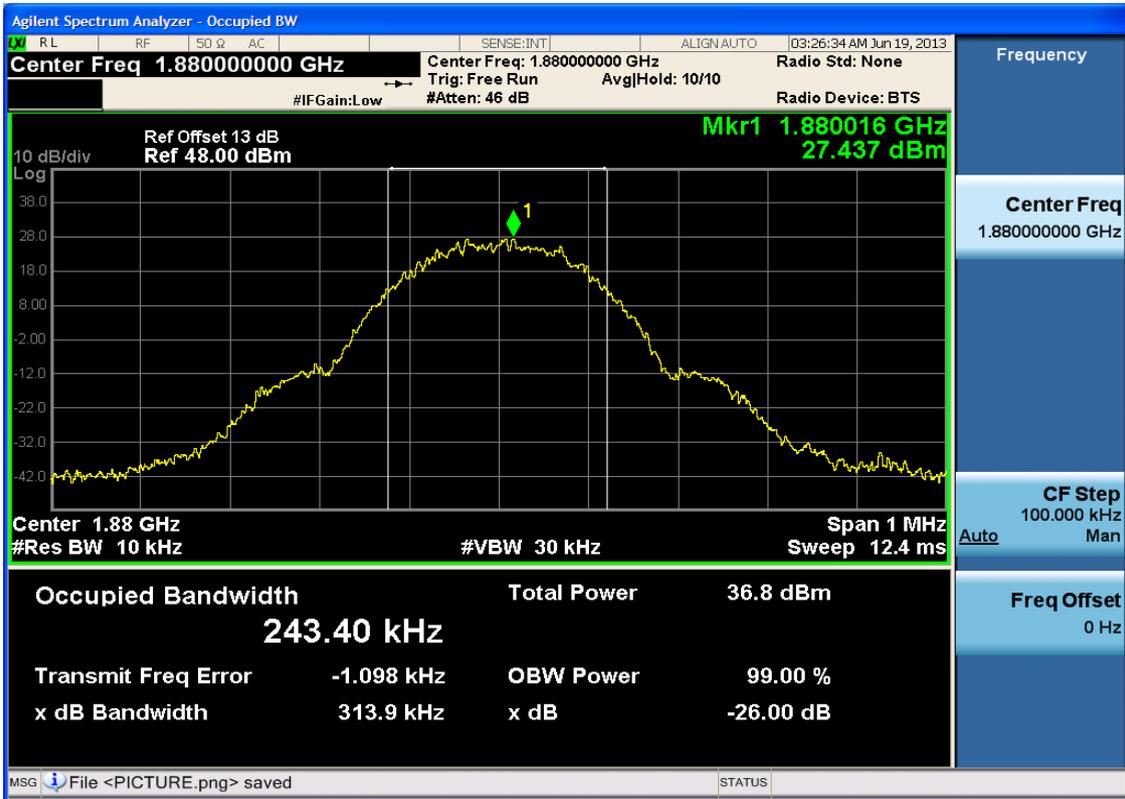
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4.1.1.1 Test Mode = GSM/TM1

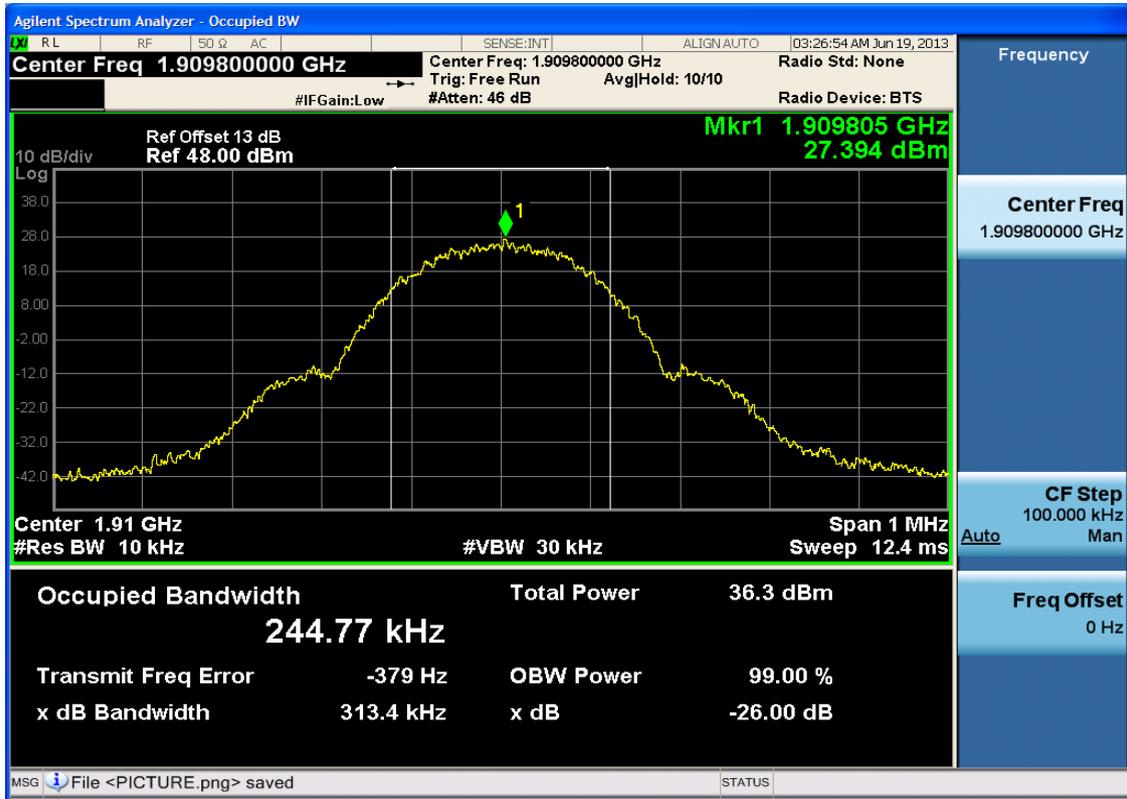
4.1.1.1.1 Test Channel = LCH



4.1.1.1.2 Test Channel = MCH



4.1.1.1.3 Test Channel = HCH



4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH



4.1.1.2.2 Test Channel = MCH



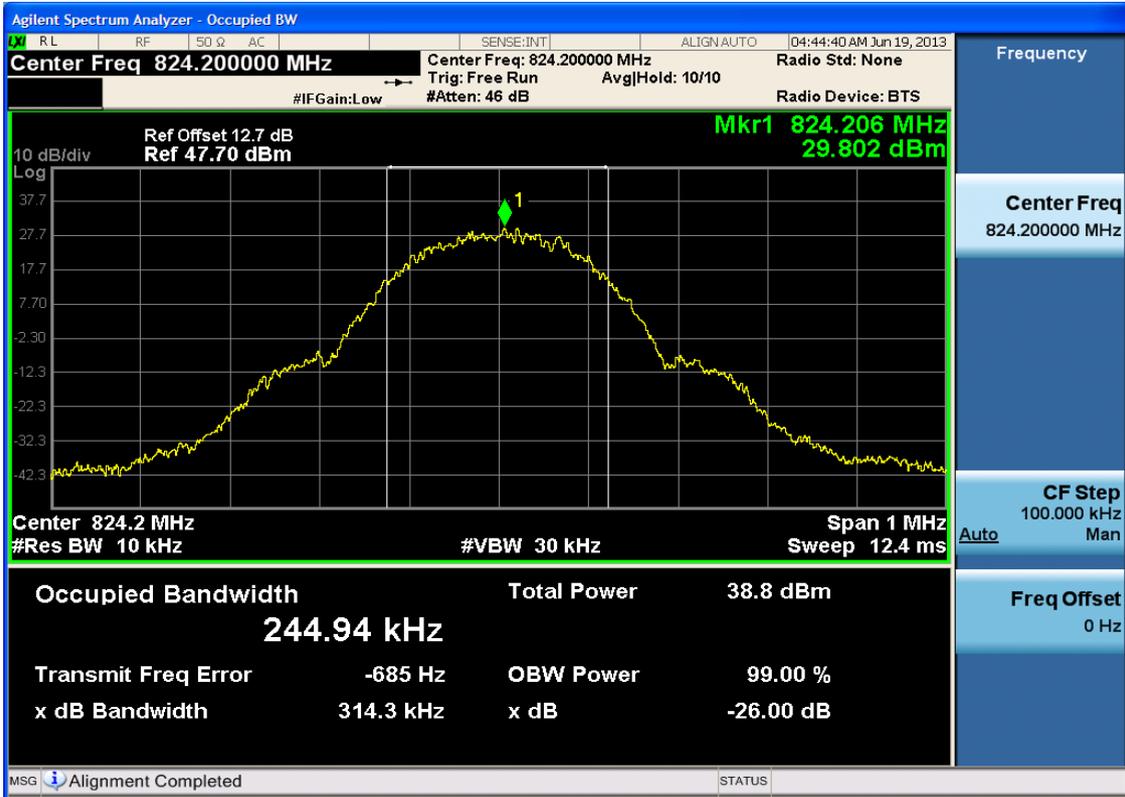
4.1.1.2.3 Test Channel = HCH



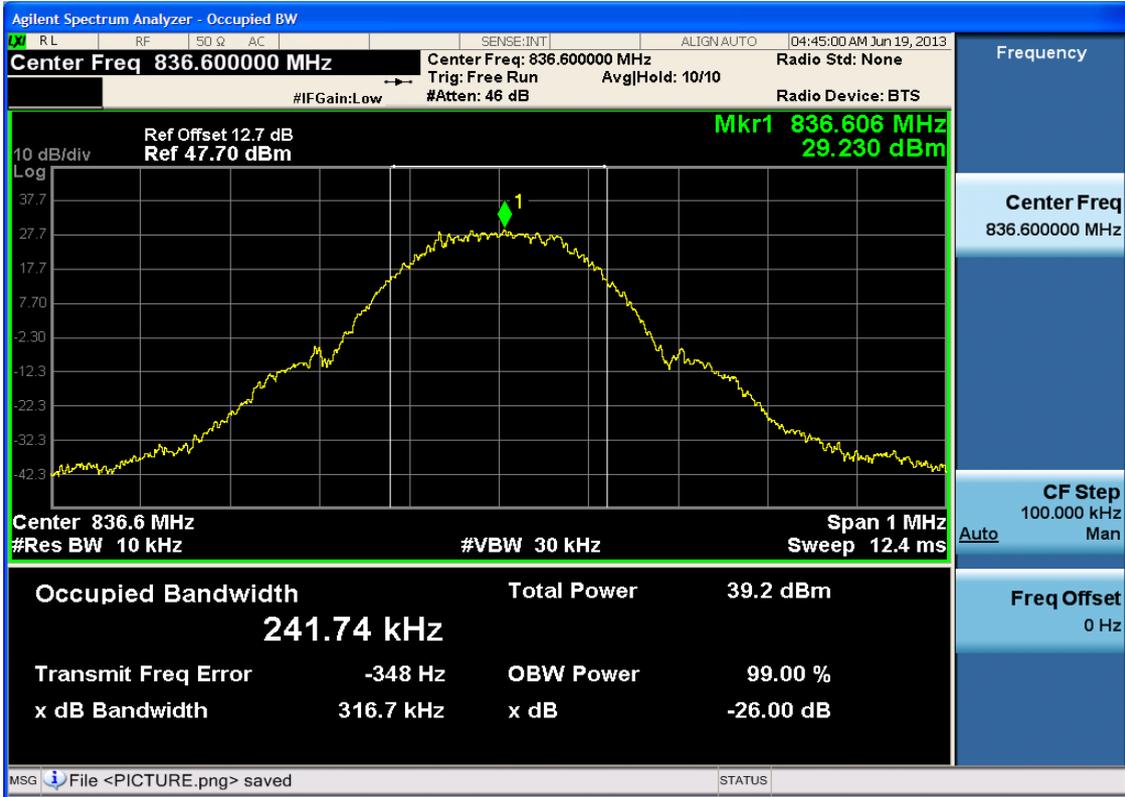
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4.1.2.1 Test Mode = GSM/TM1

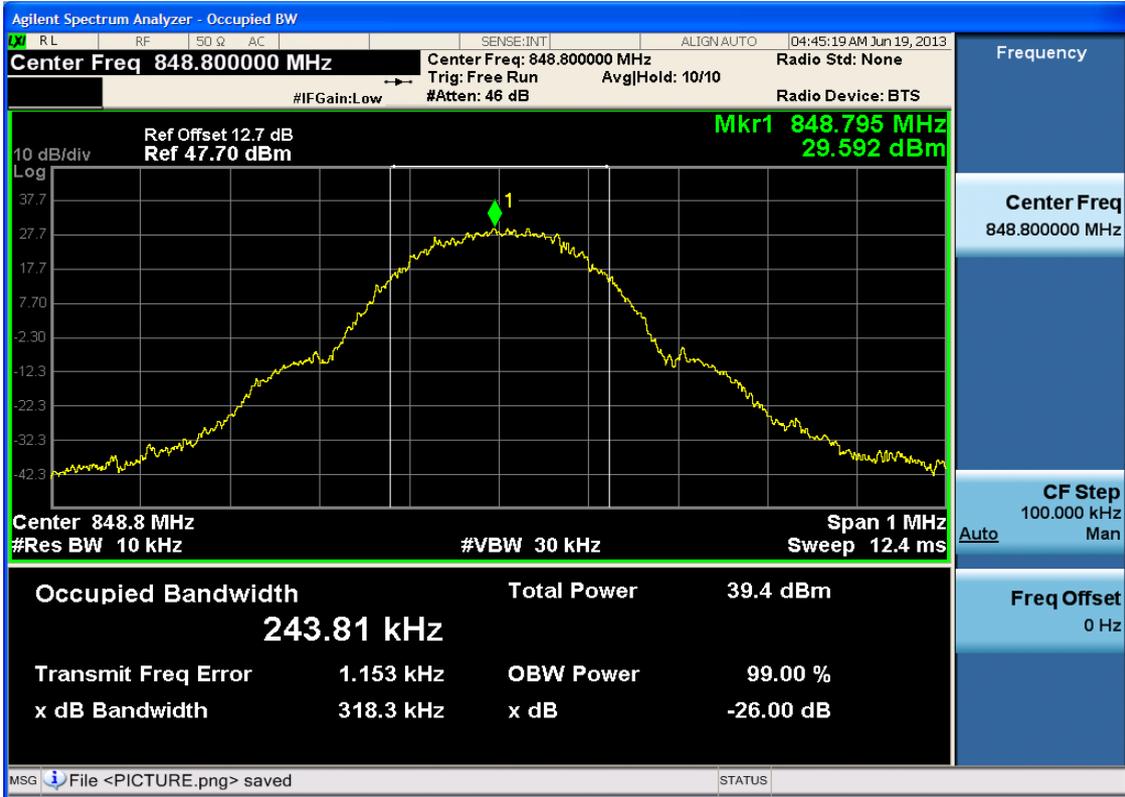
4.1.2.1.1 Test Channel = LCH



4.1.2.1.2 Test Channel = MCH



4.1.2.1.3 Test Channel = HCH



4.1.2.2 Test Mode = GSM/TM2

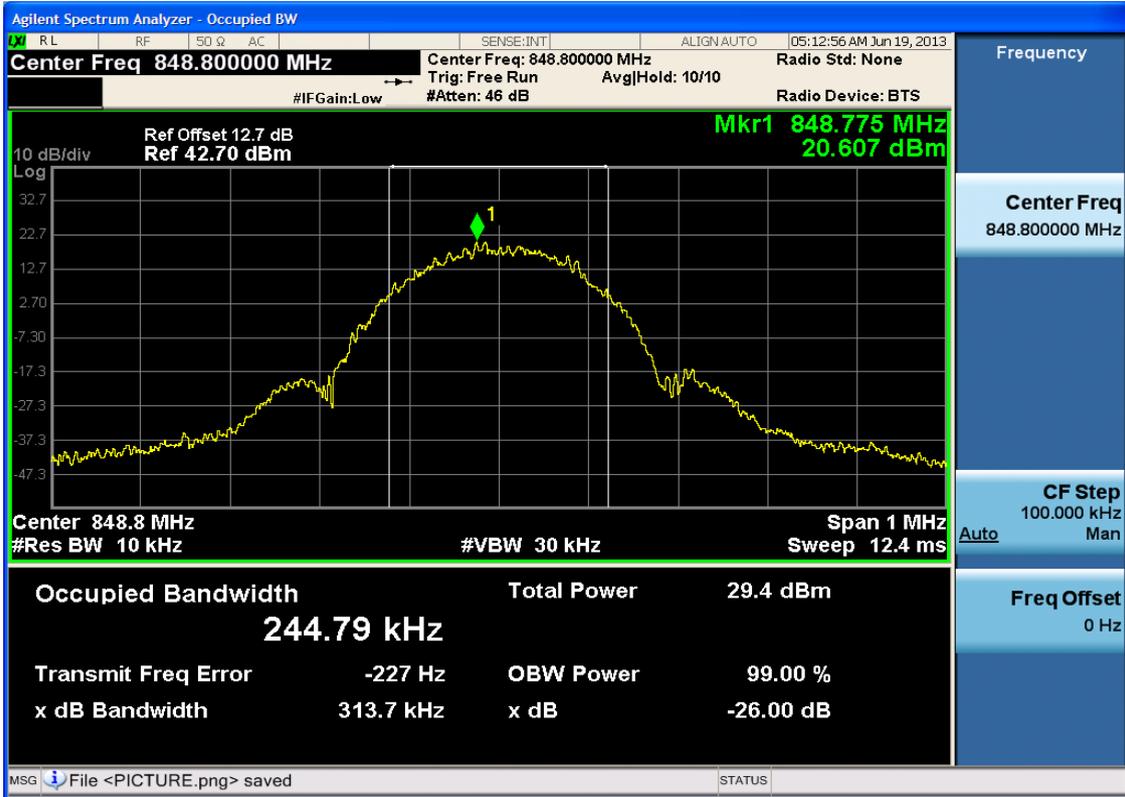
4.1.2.2.1 Test Channel = LCH



4.1.2.2.2 Test Channel = MCH



4.1.2.2.3 Test Channel = HCH

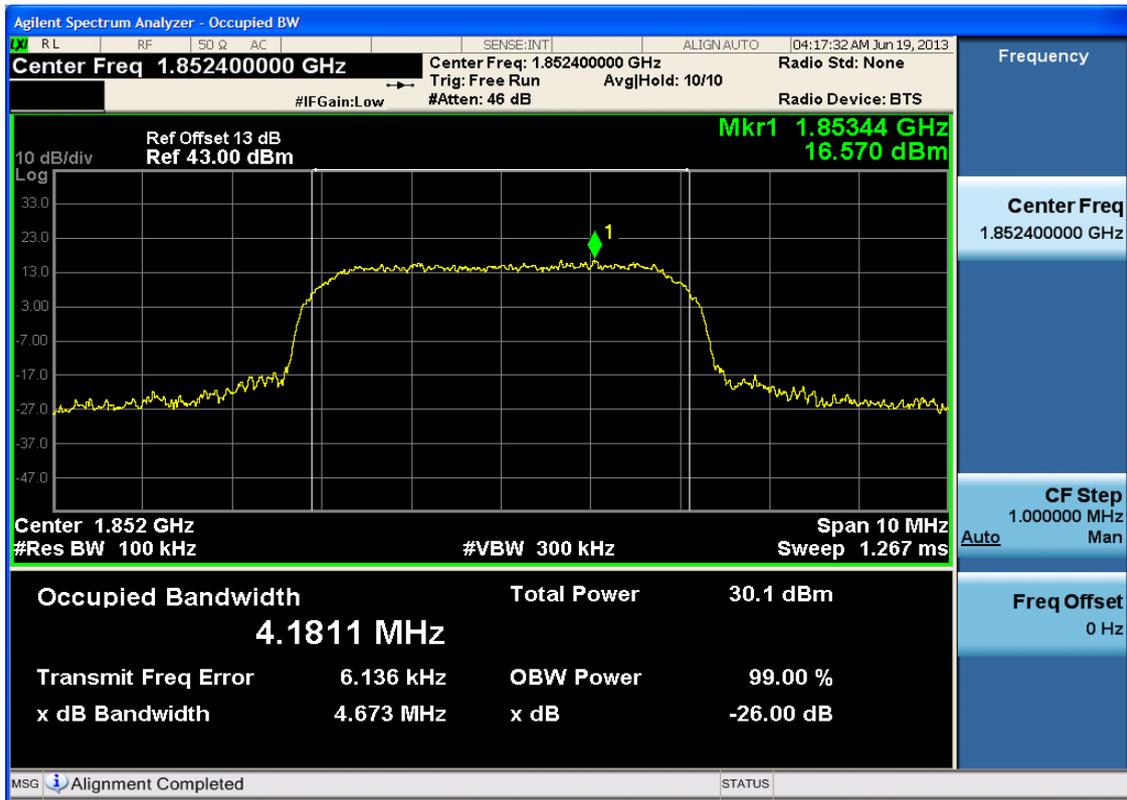


4.2 For UMTS

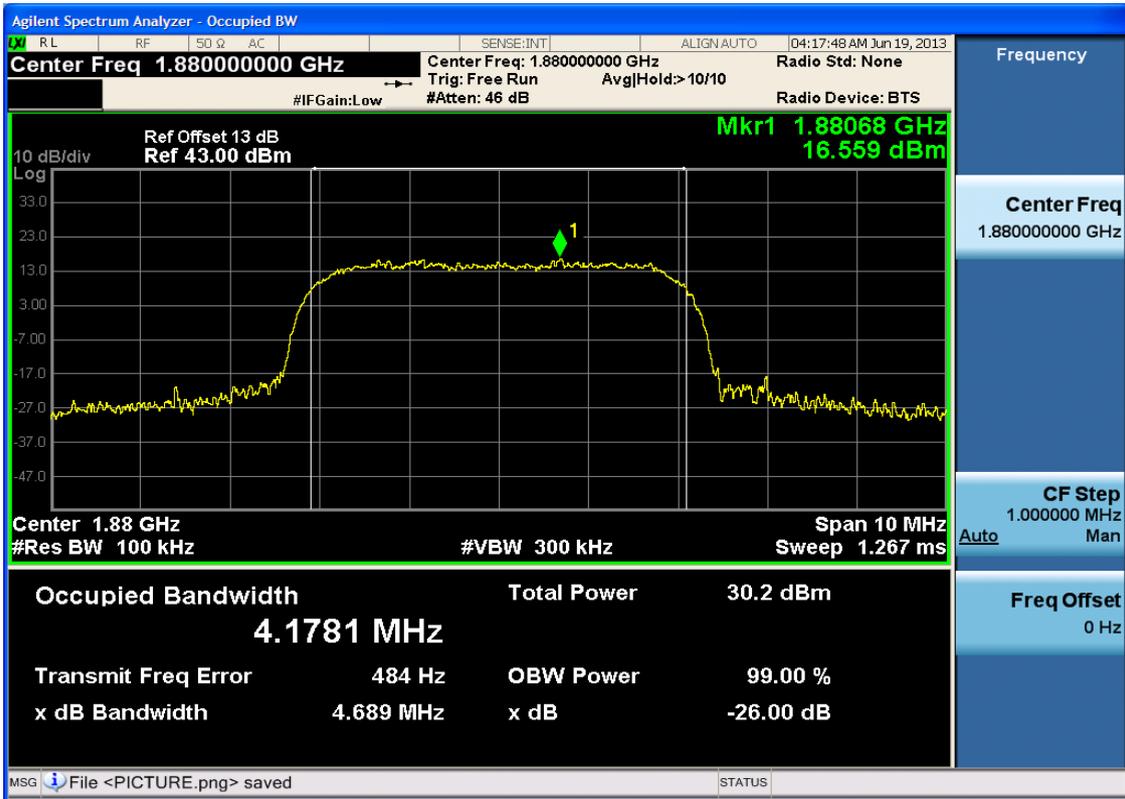
4.2.1 Test Band = WCDMA1900

4.2.1.1 Test Mode = UMTS/TM1

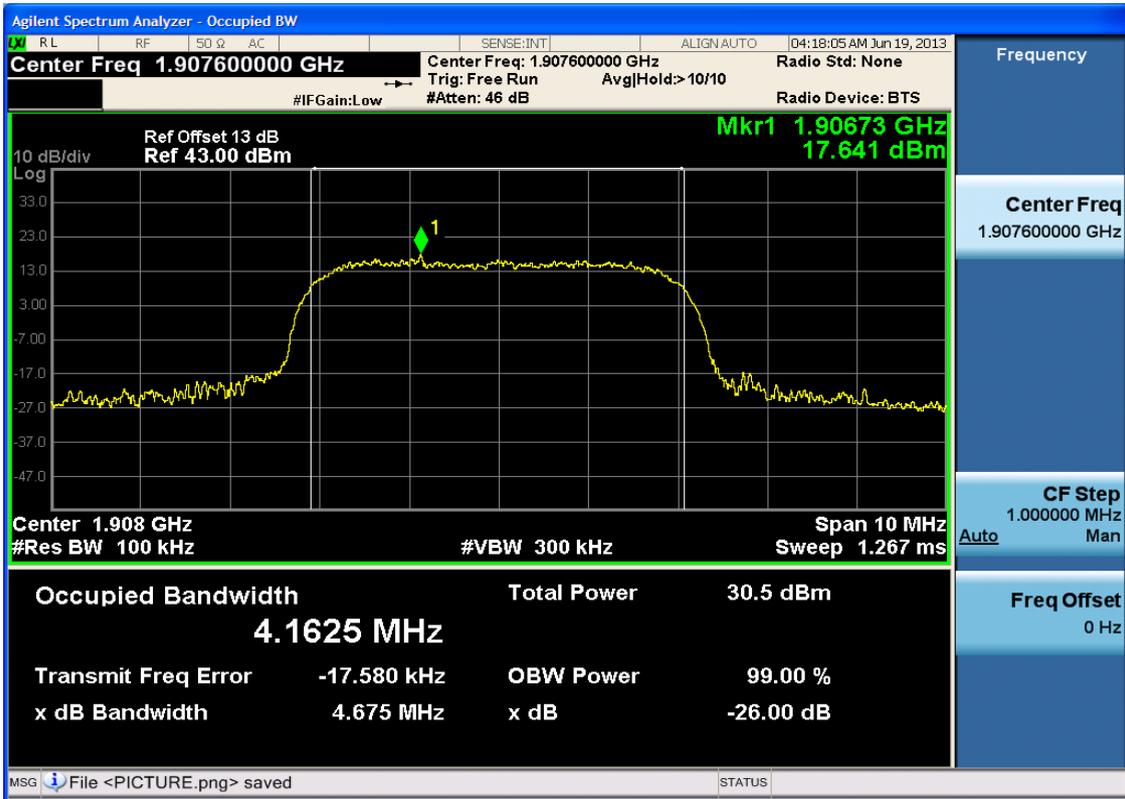
4.2.1.1.1 Test Channel = LCH



4.2.1.1.2 Test Channel = MCH



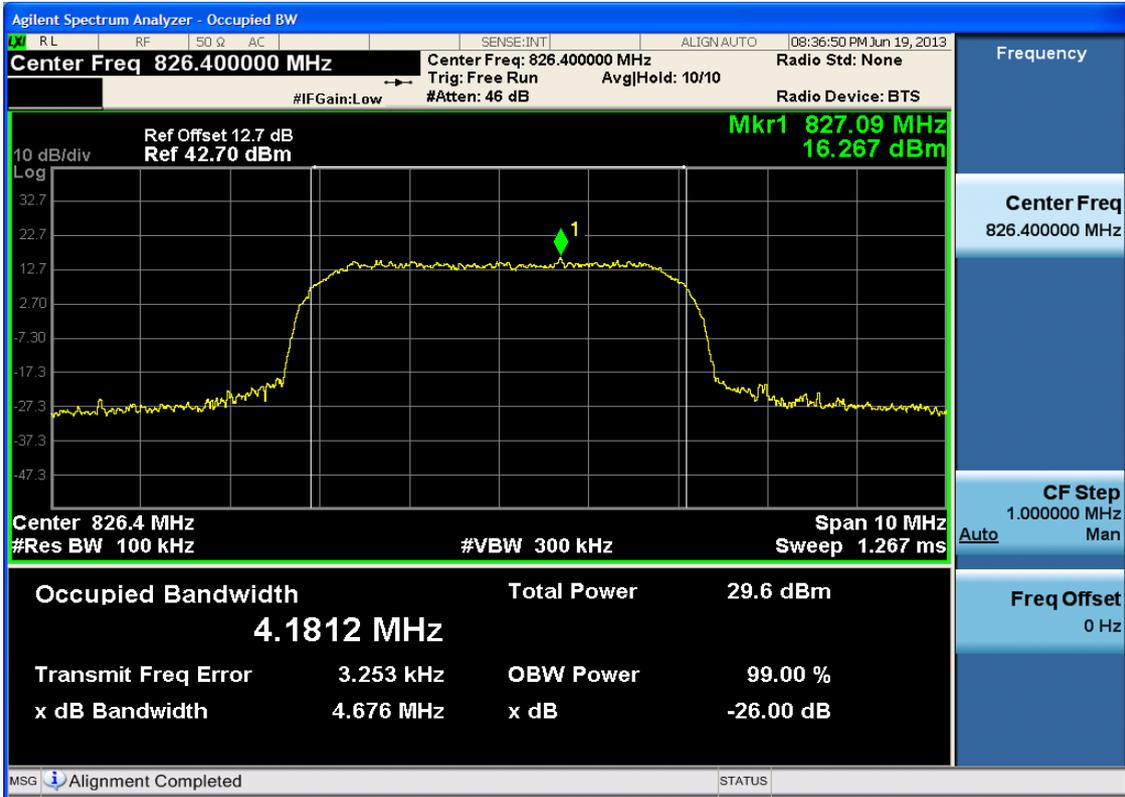
4.2.1.1.3 Test Channel = HCH



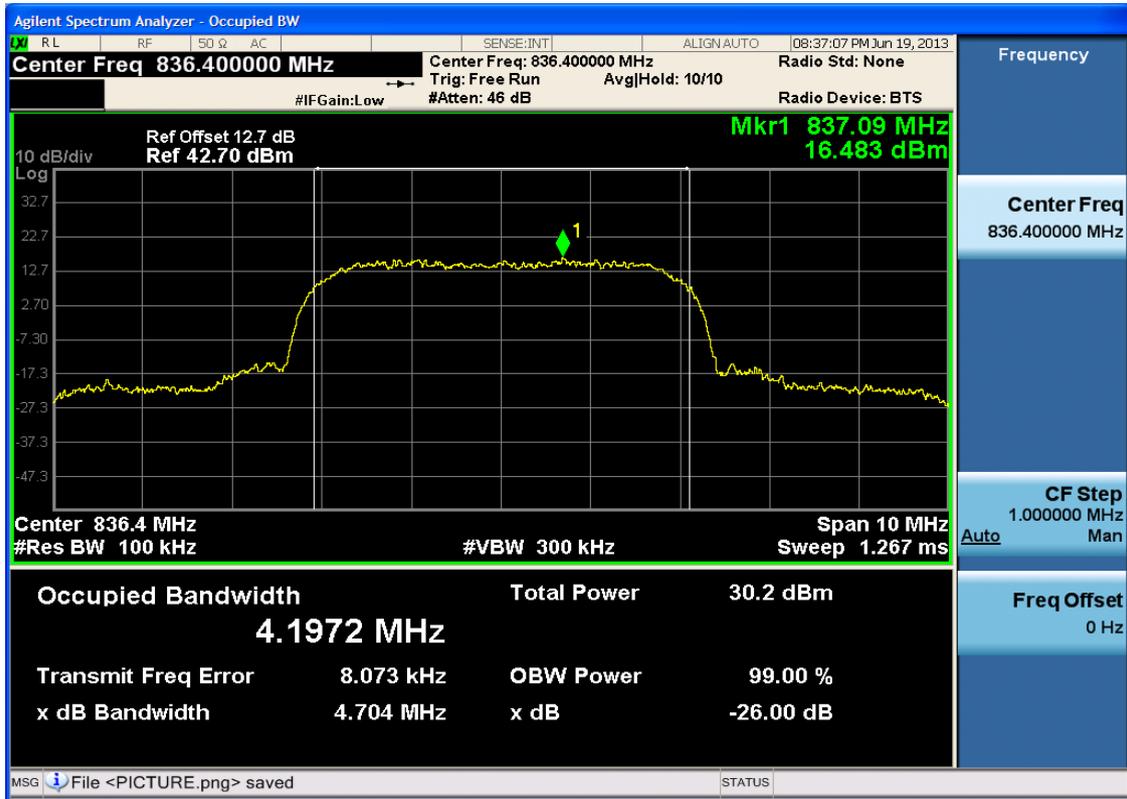
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4.2.2.1 Test Mode = UMTS/TM1

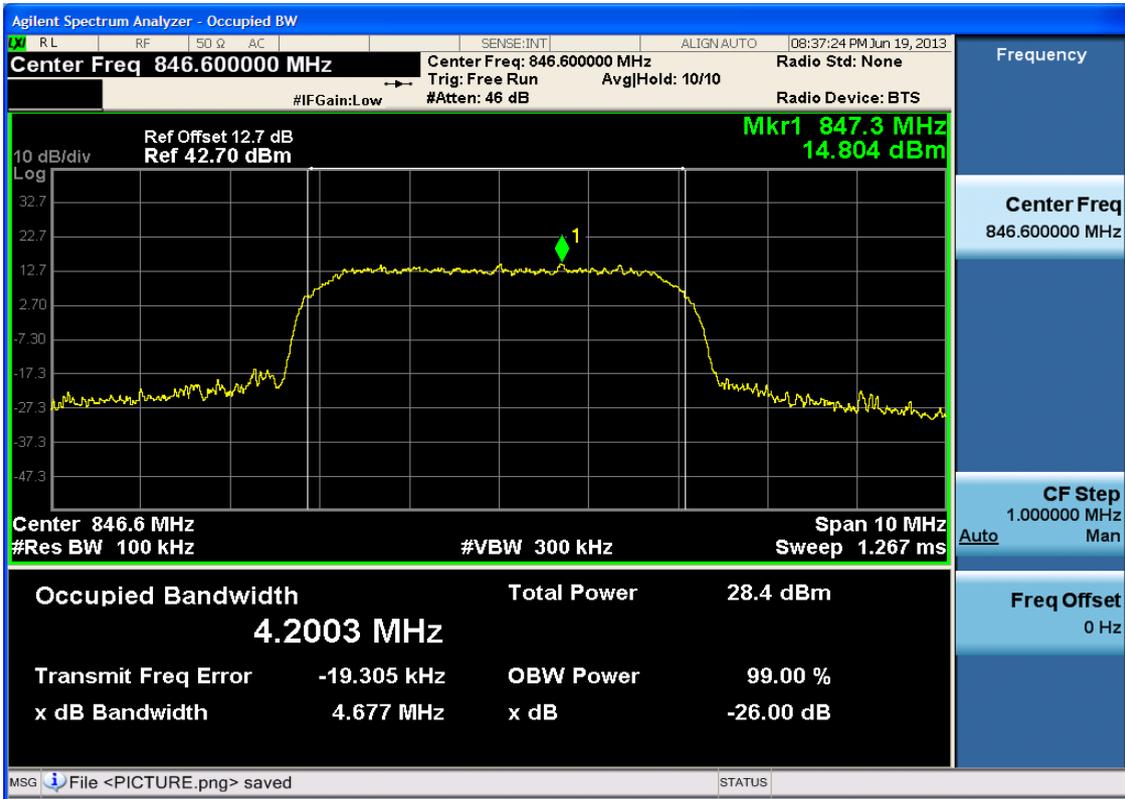
4.2.2.1.1 Test Channel = LCH



4.2.2.1.2 Test Channel = MCH



4.2.2.1.3 Test Channel = HCH



5Appendix_E: Band Edges Compliance

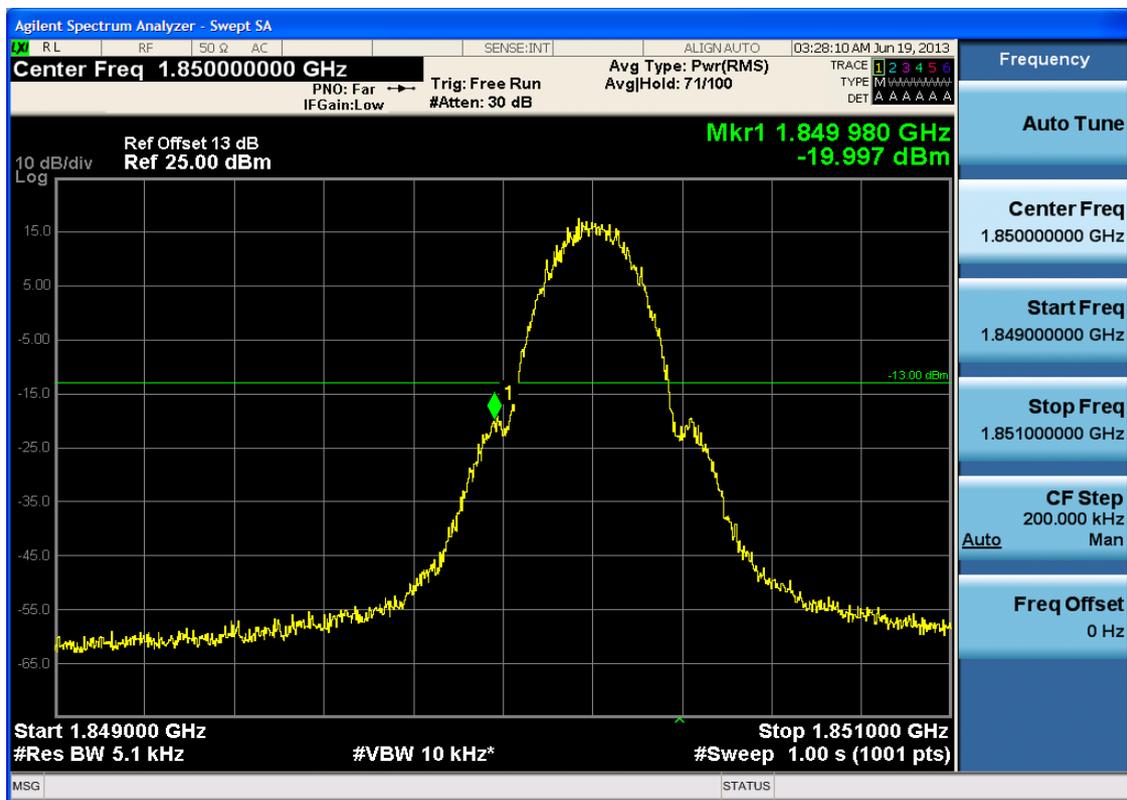
Part I - Test Plots

5.1 For GSM

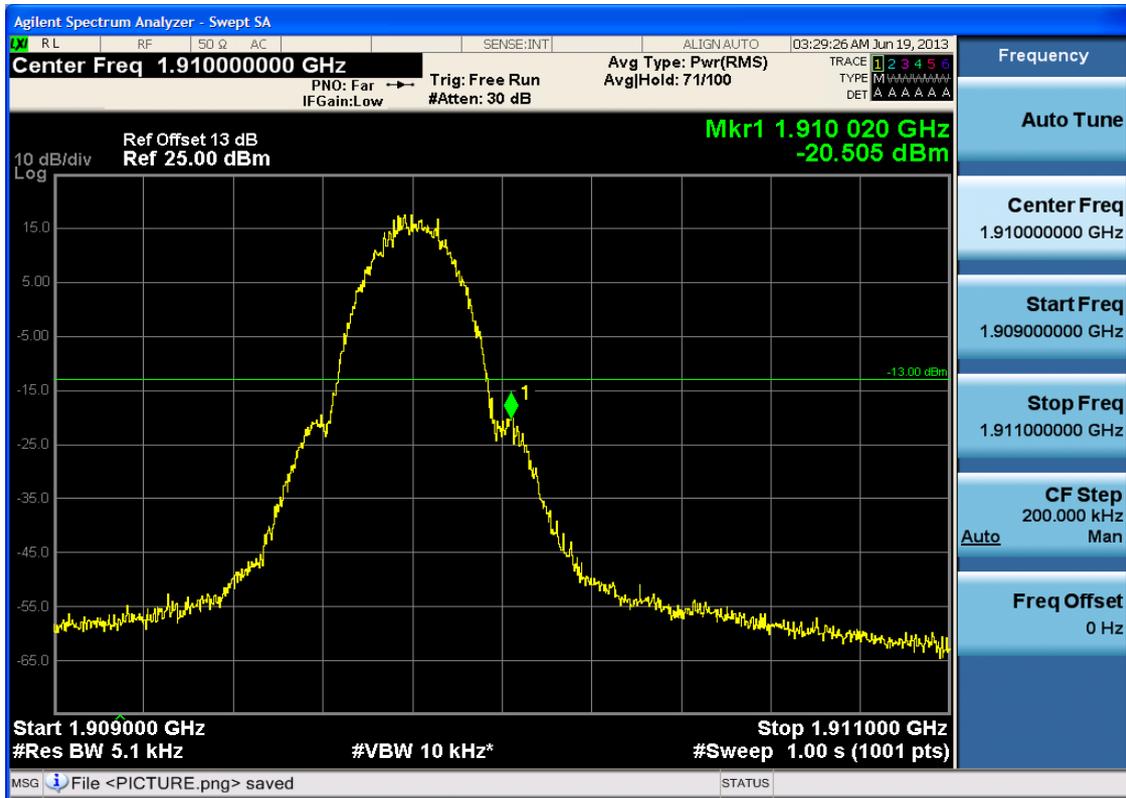
5.1.1 Test Band = GSM1900

5.1.1.1 Test Mode = GSM/TM1

5.1.1.1.1 Test Channel = LCH

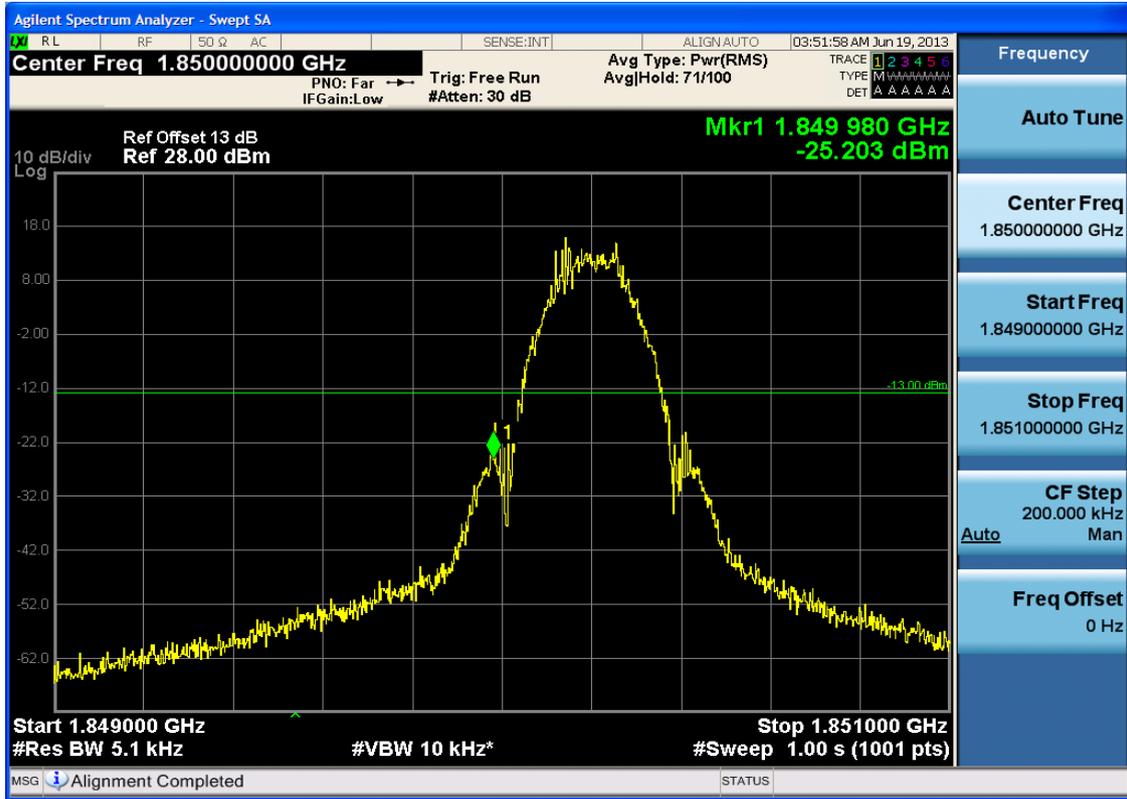


5.1.1.1.2 Test Channel = HCH

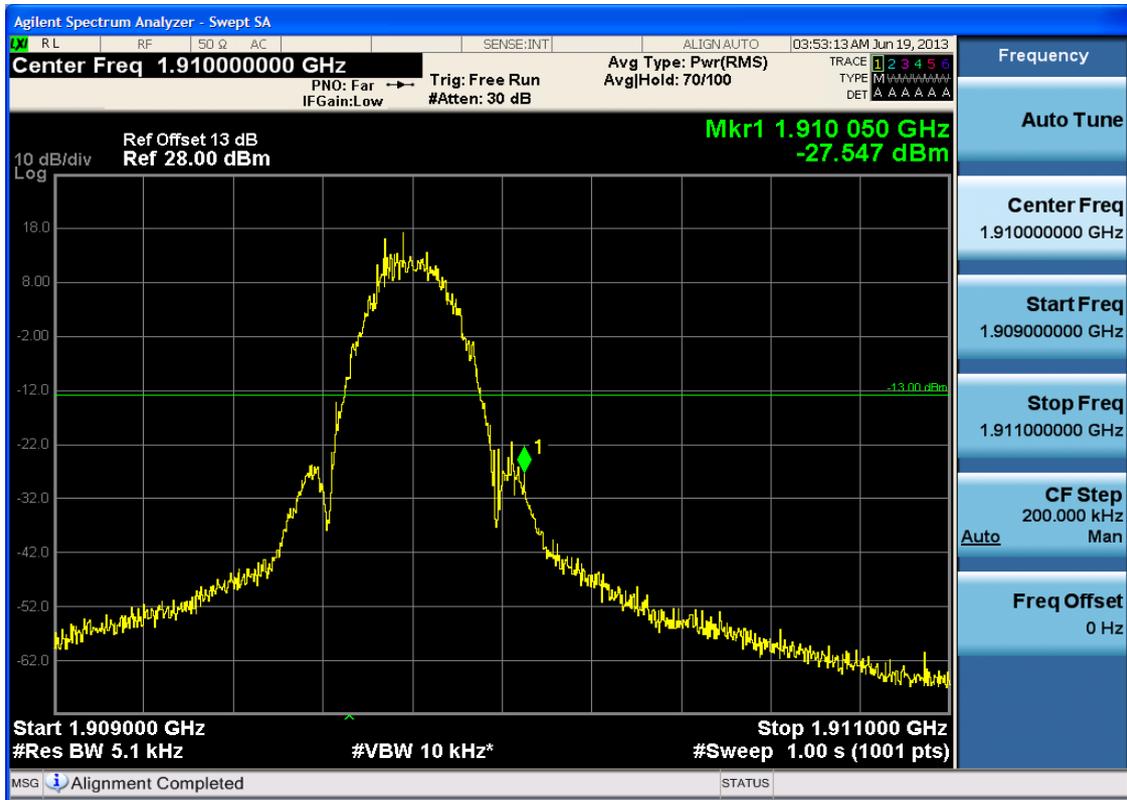


5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH



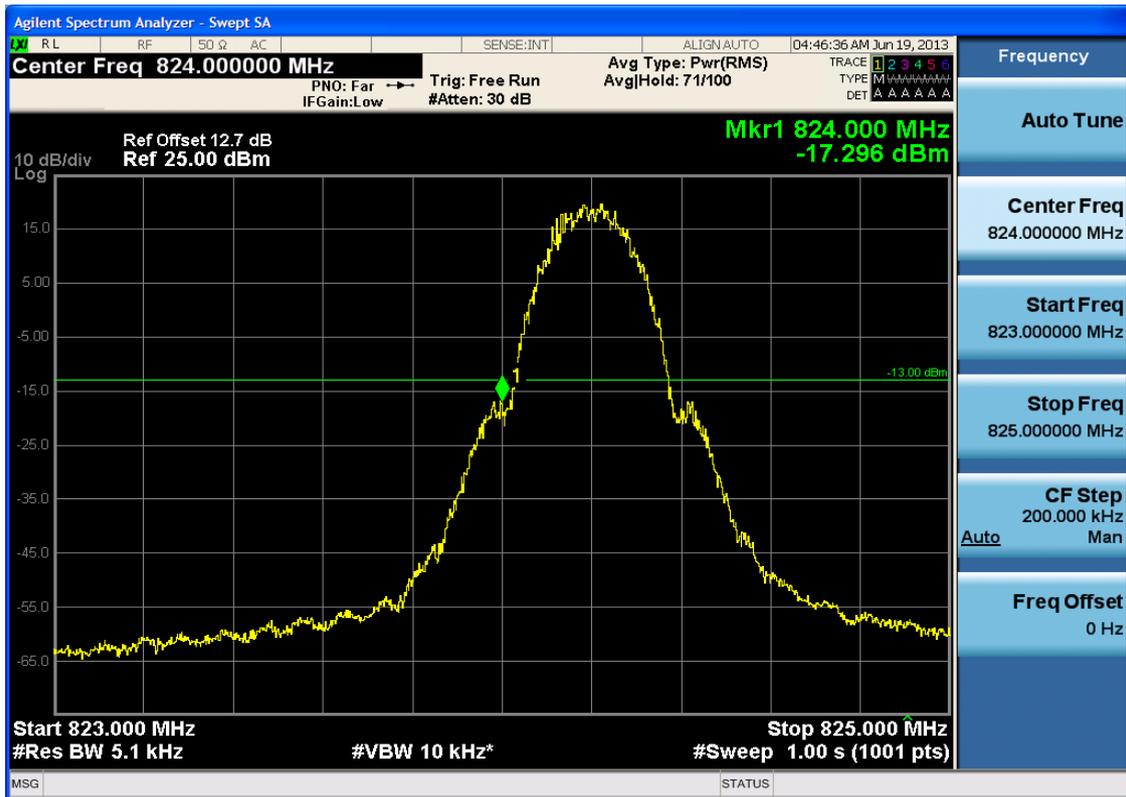
5.1.1.2.2 Test Channel = HCH



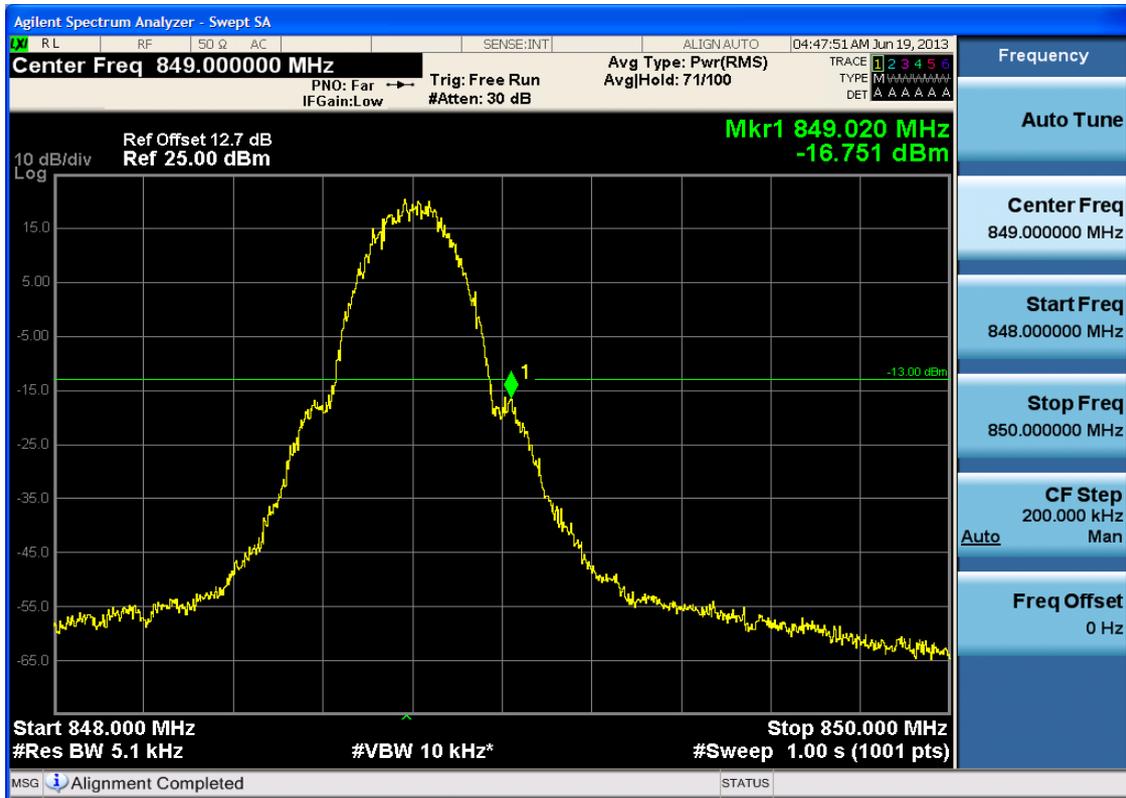
5.1.2 Test Band = GSM850

5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH

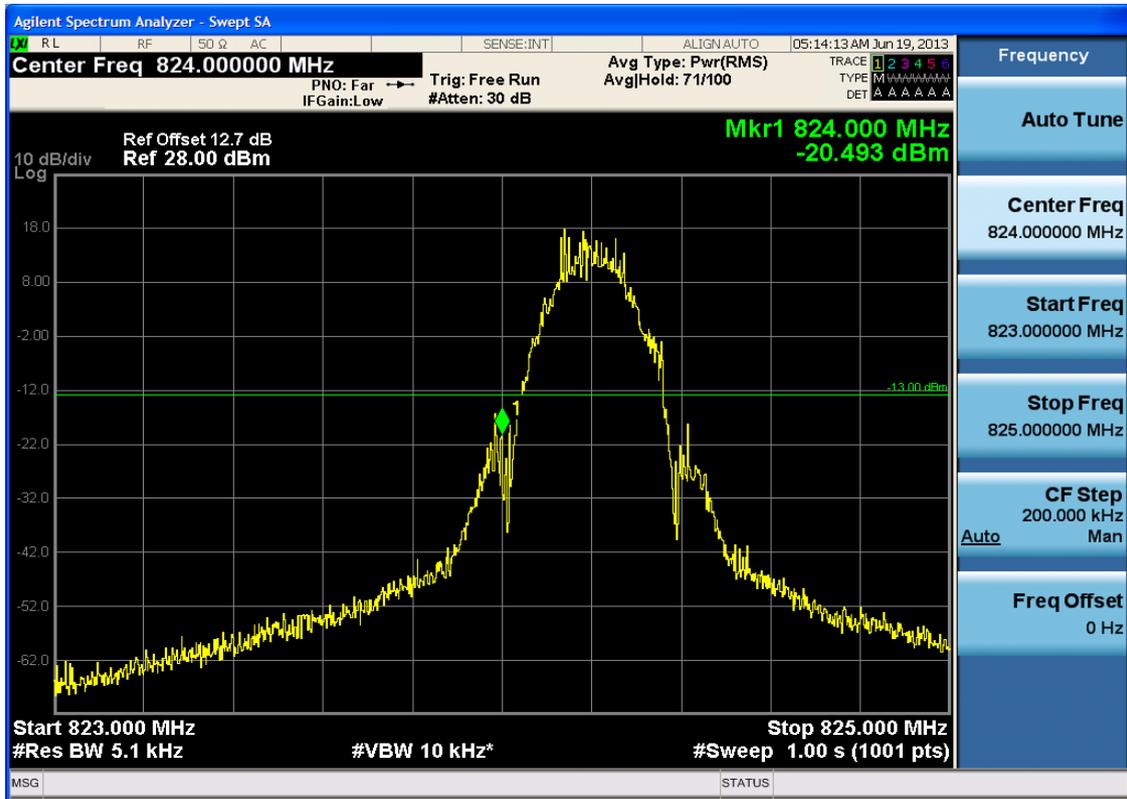


5.1.2.1.2 Test Channel = HCH

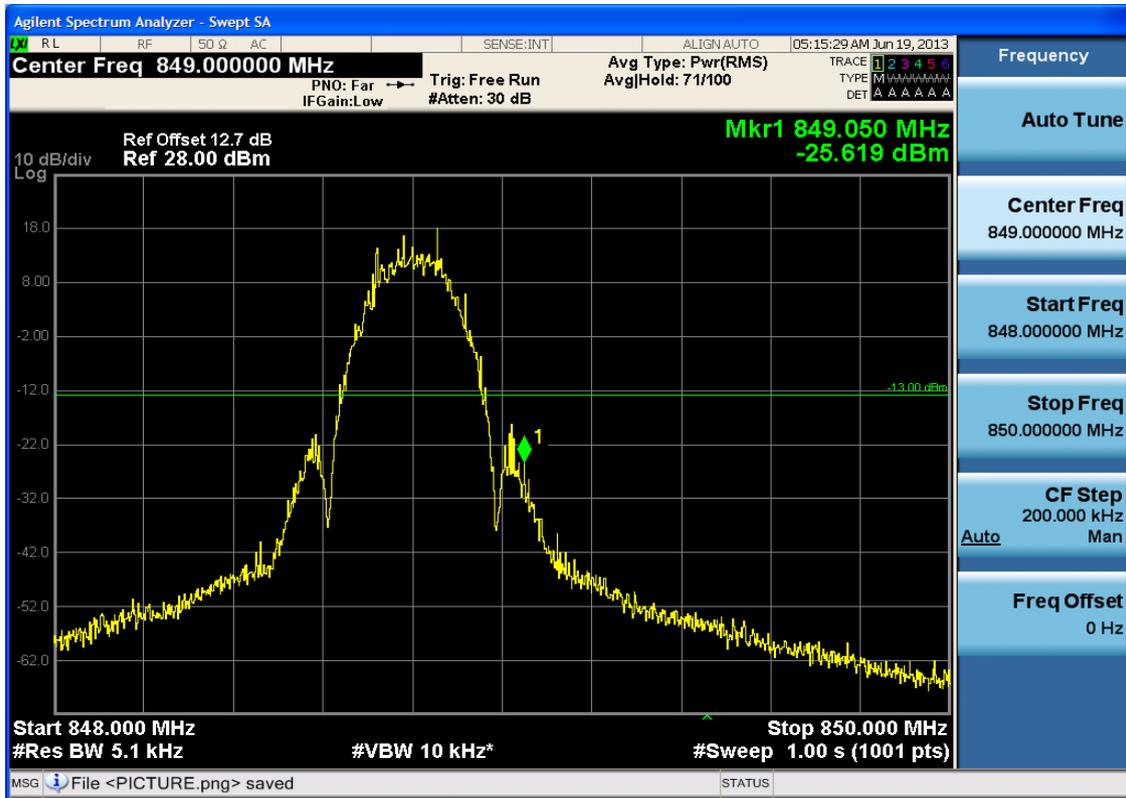


5.1.2.2 Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH



5.1.2.2.2 Test Channel = HCH



5.2 For UMTS

5.2.1 Test Band = WCDMA1900

5.2.1.1 Test Mode = UMTS/TM1

5.2.1.1.1 Test Channel = LCH



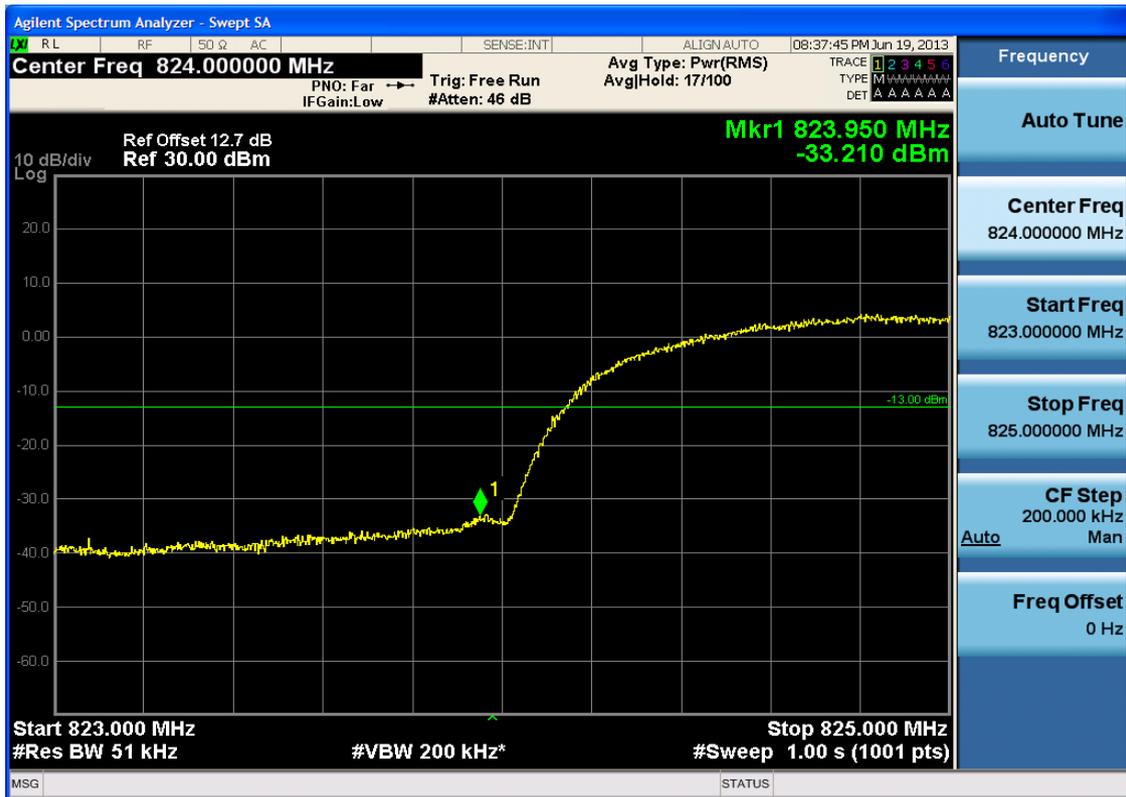
5.2.1.1.2 Test Channel = HCH



5.2.2 Test Band = WCDMA850

5.2.2.1 Test Mode = UMTS/TM1

5.2.2.1.1 Test Channel = LCH



5.2.2.1.2 Test Channel = HCH



6Appendix_F: Spurious Emission at Antenna Terminal

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

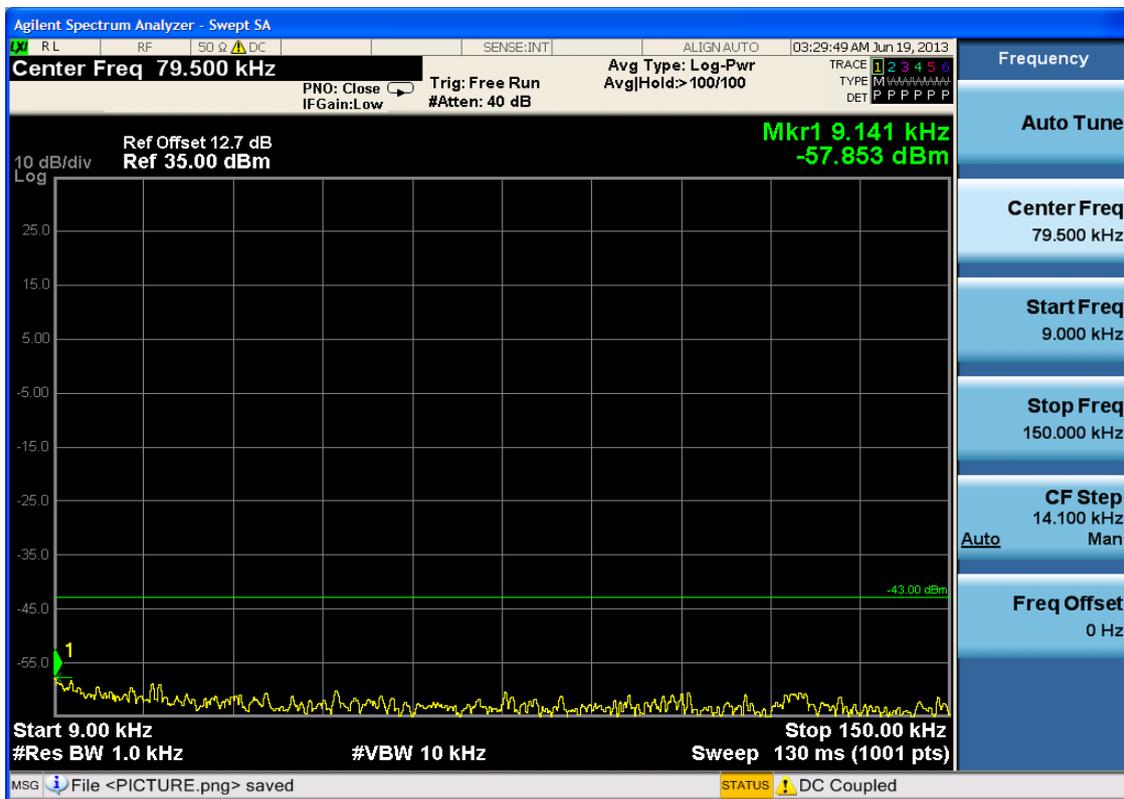
Part I - Test Plots

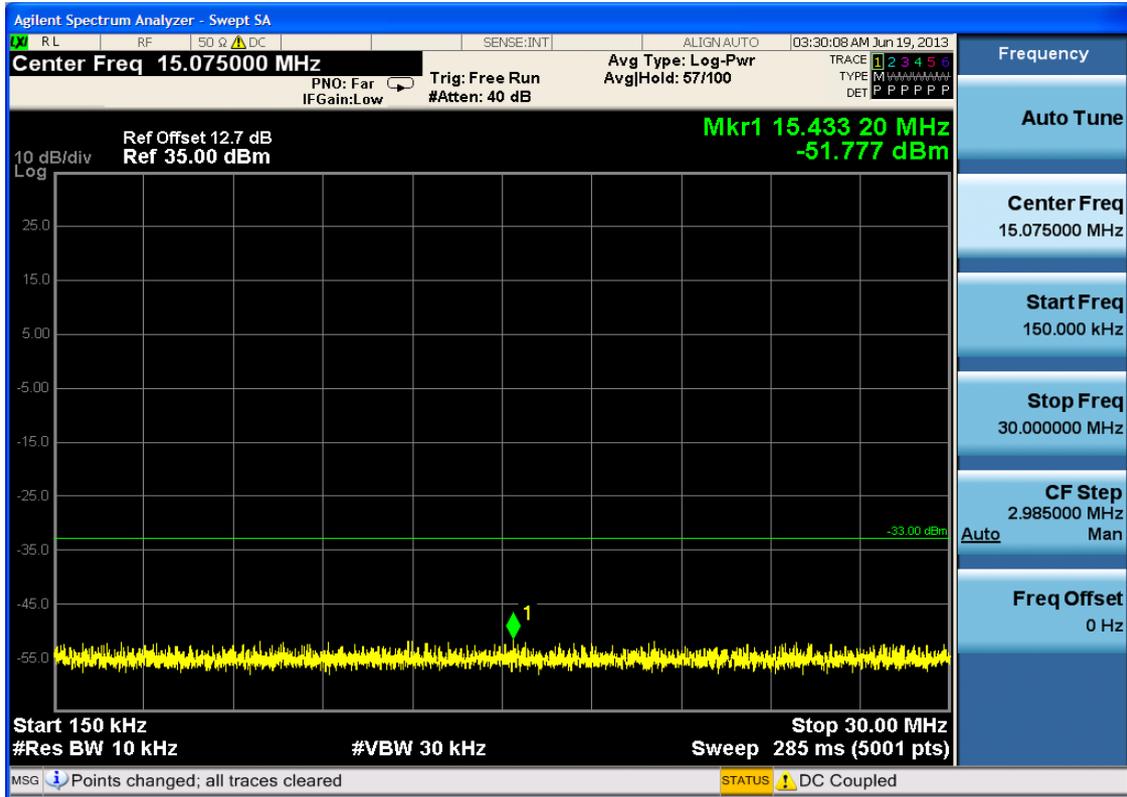
6.1 For GSM

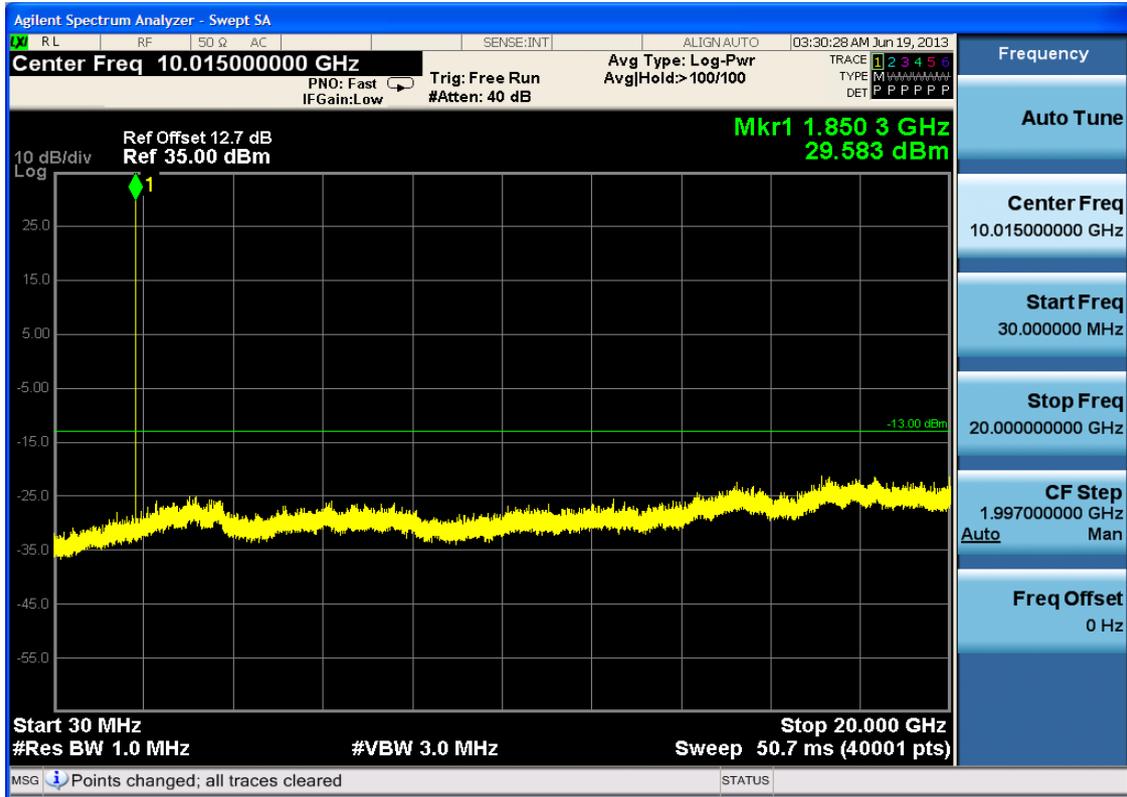
6.1.1 Test Band = GSM1900

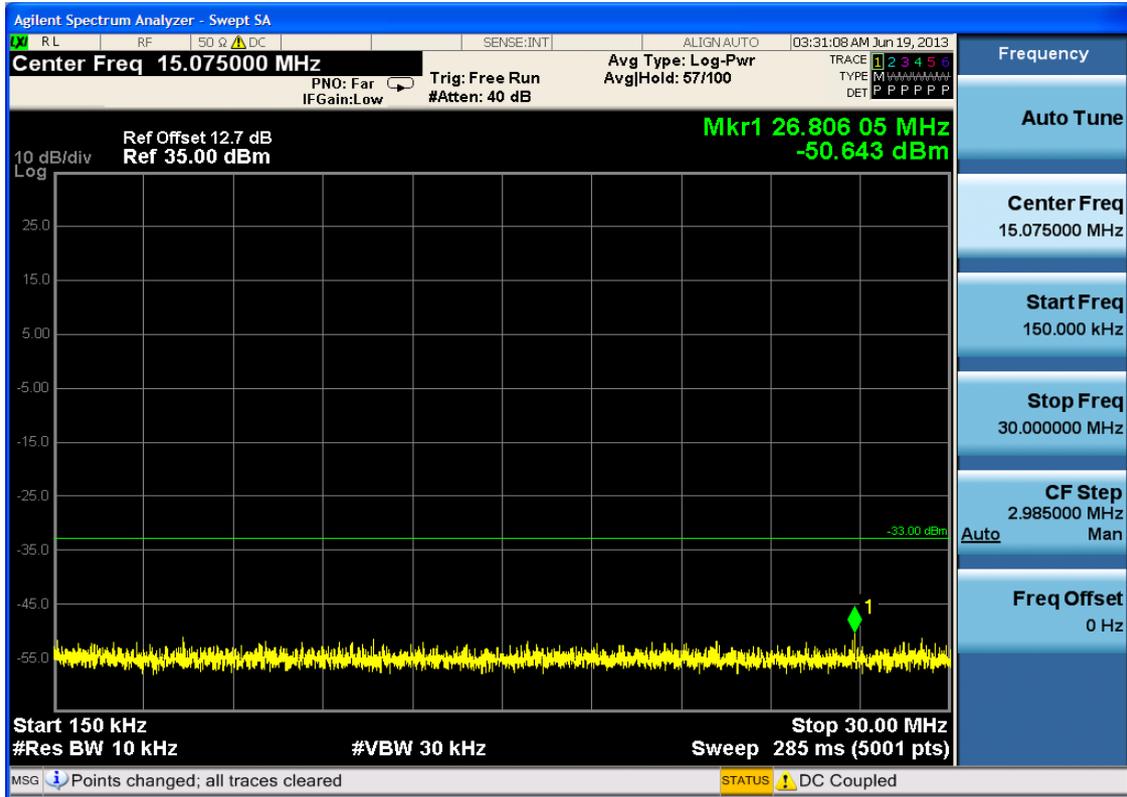
6.1.1.1 Test Mode = GSM/TM1

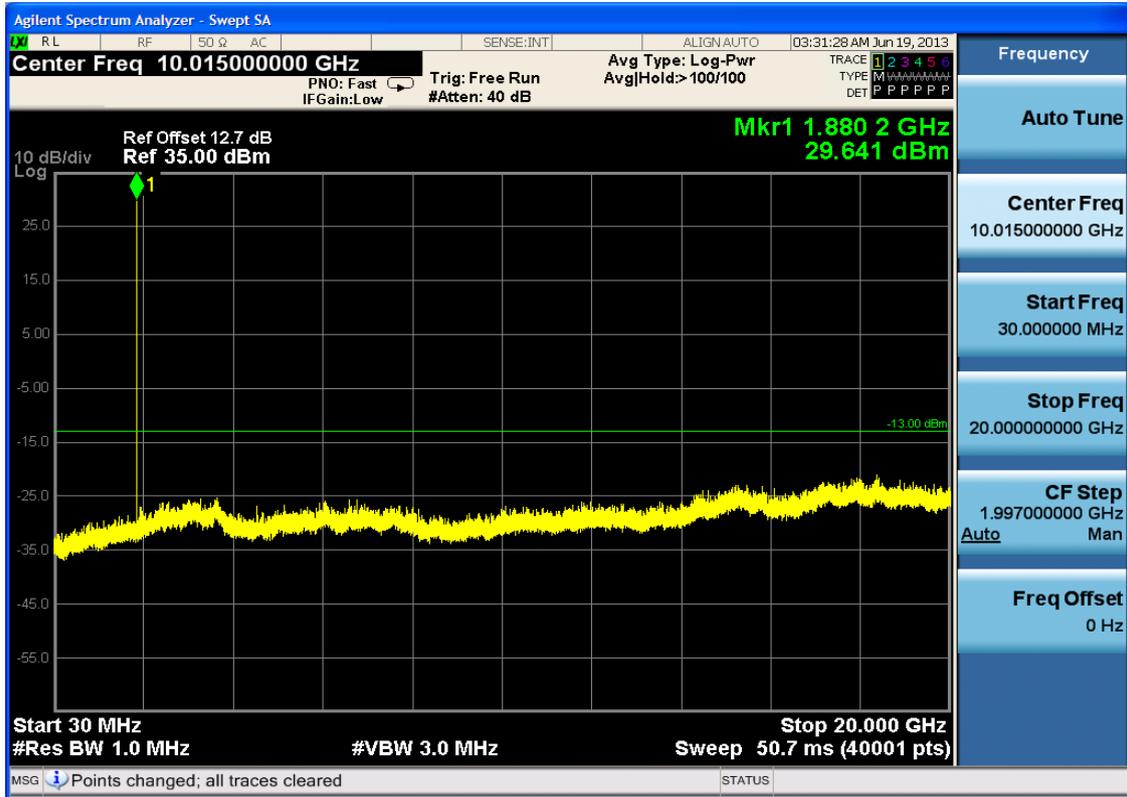
6.1.1.1.1 Test Channel = LCH





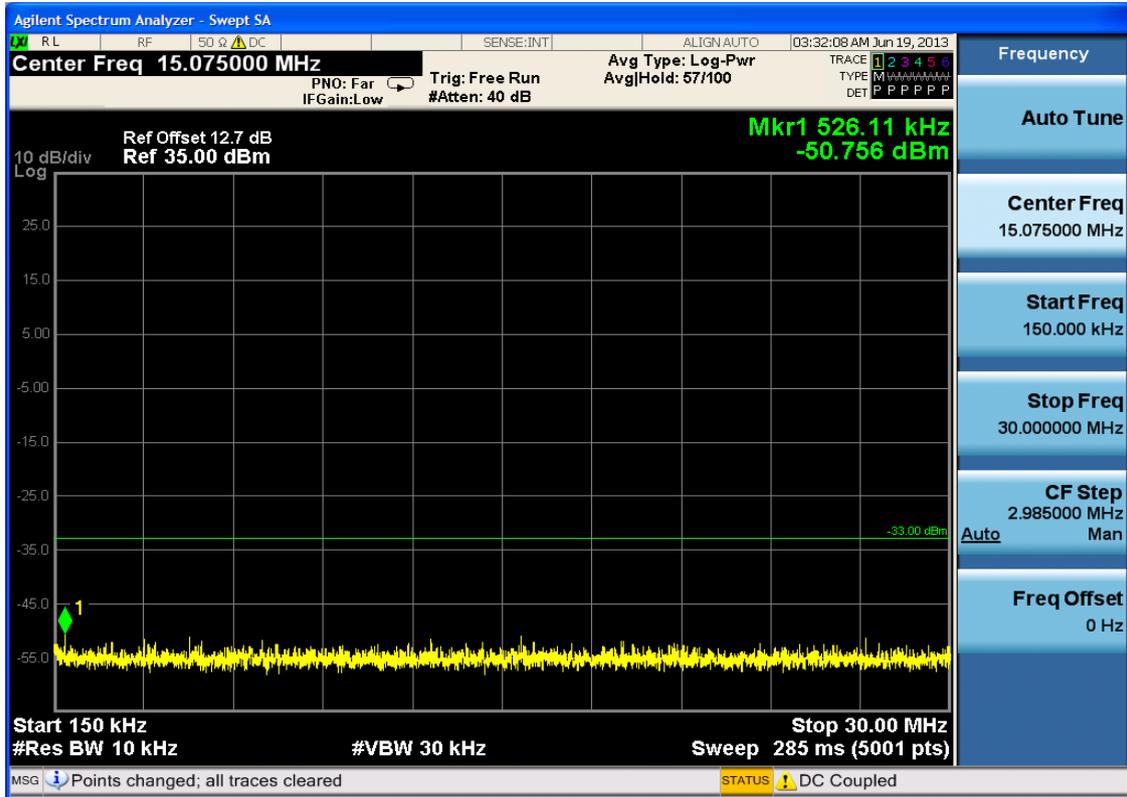


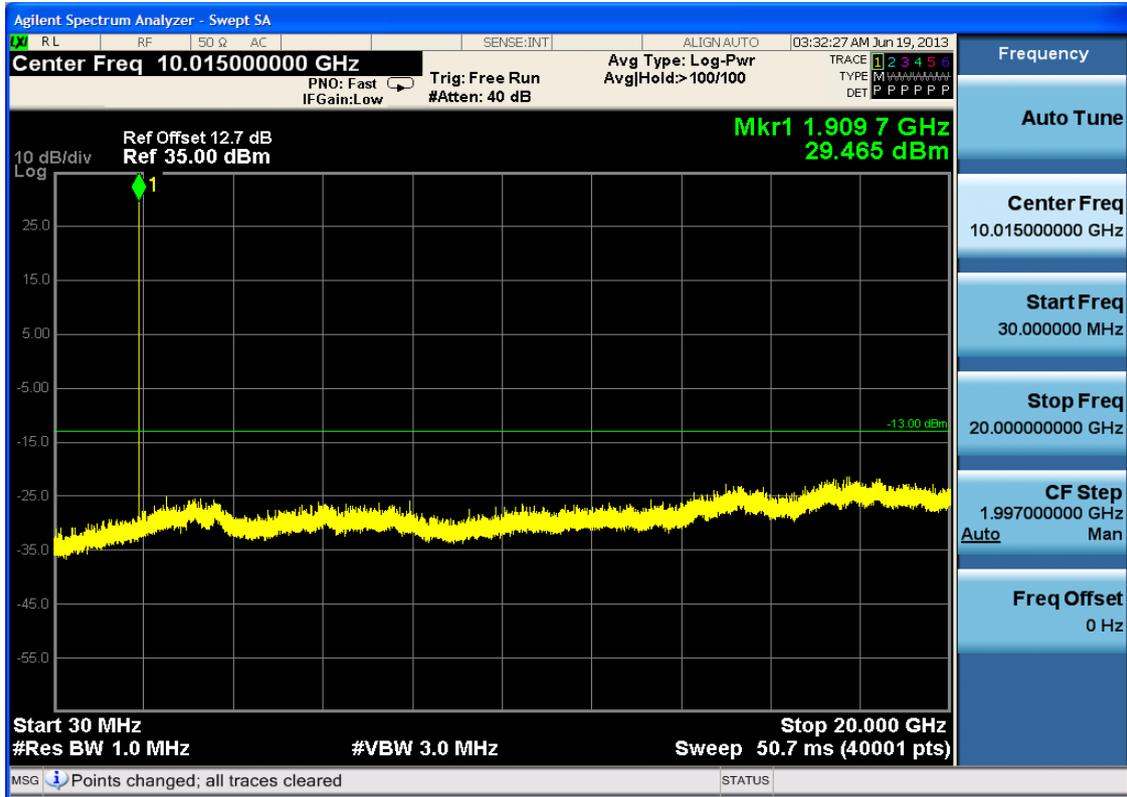




6.1.1.1.3 Test Channel = HCH



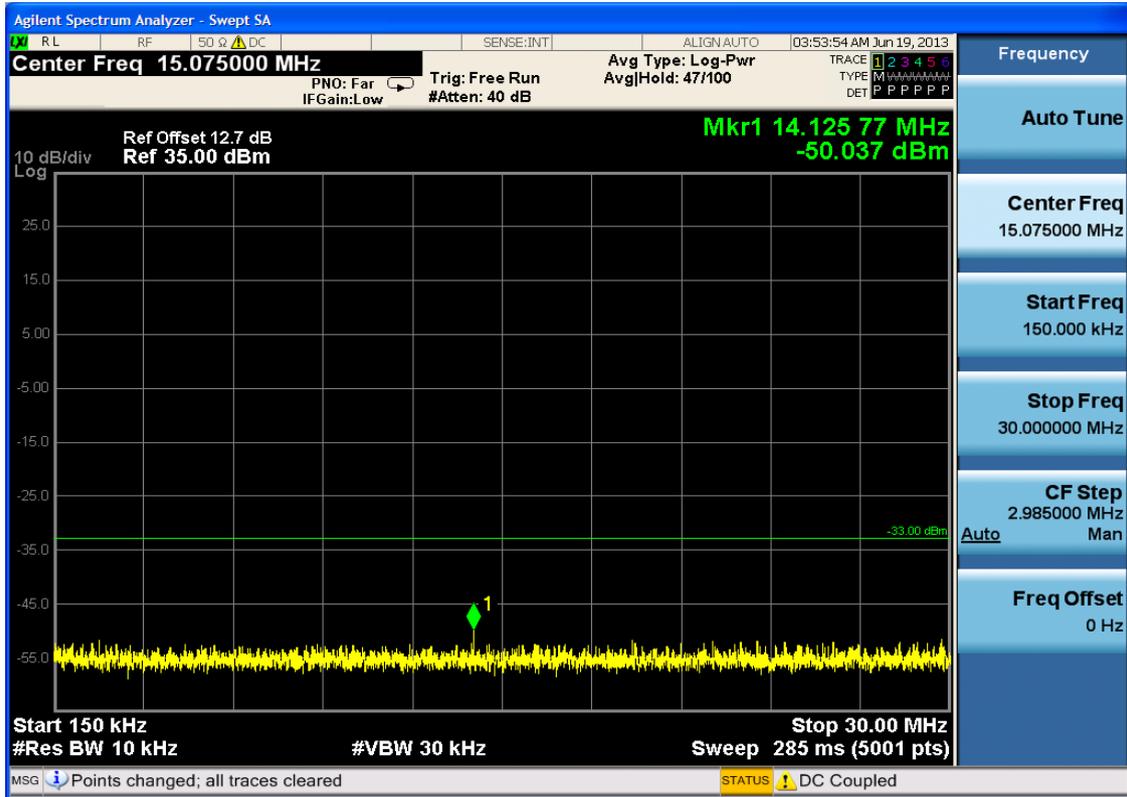


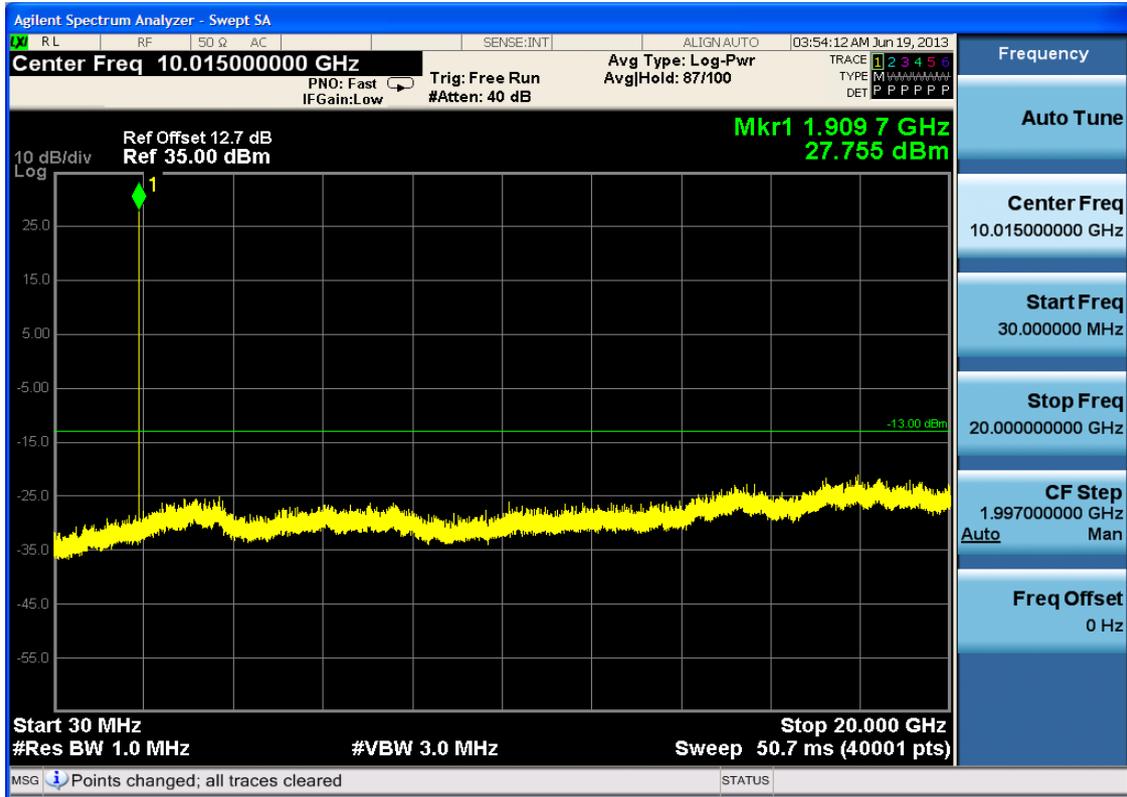


6.1.1.2 Test Mode = GSM/TM2

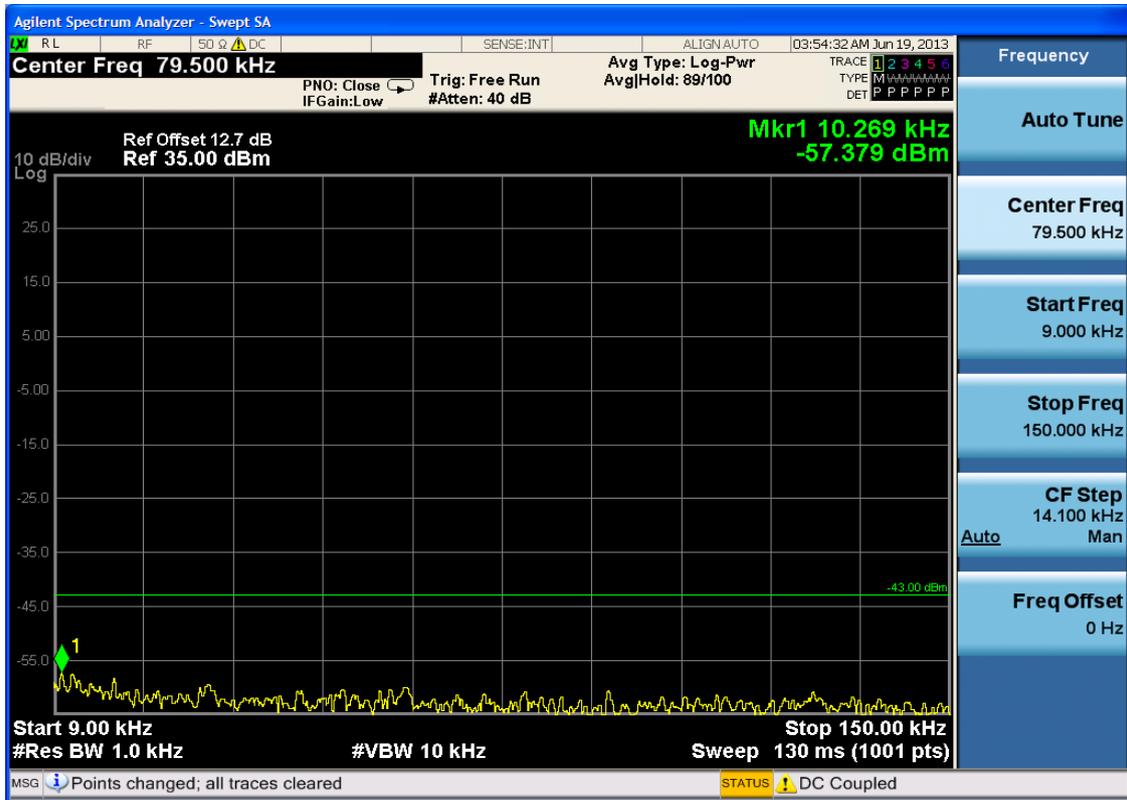
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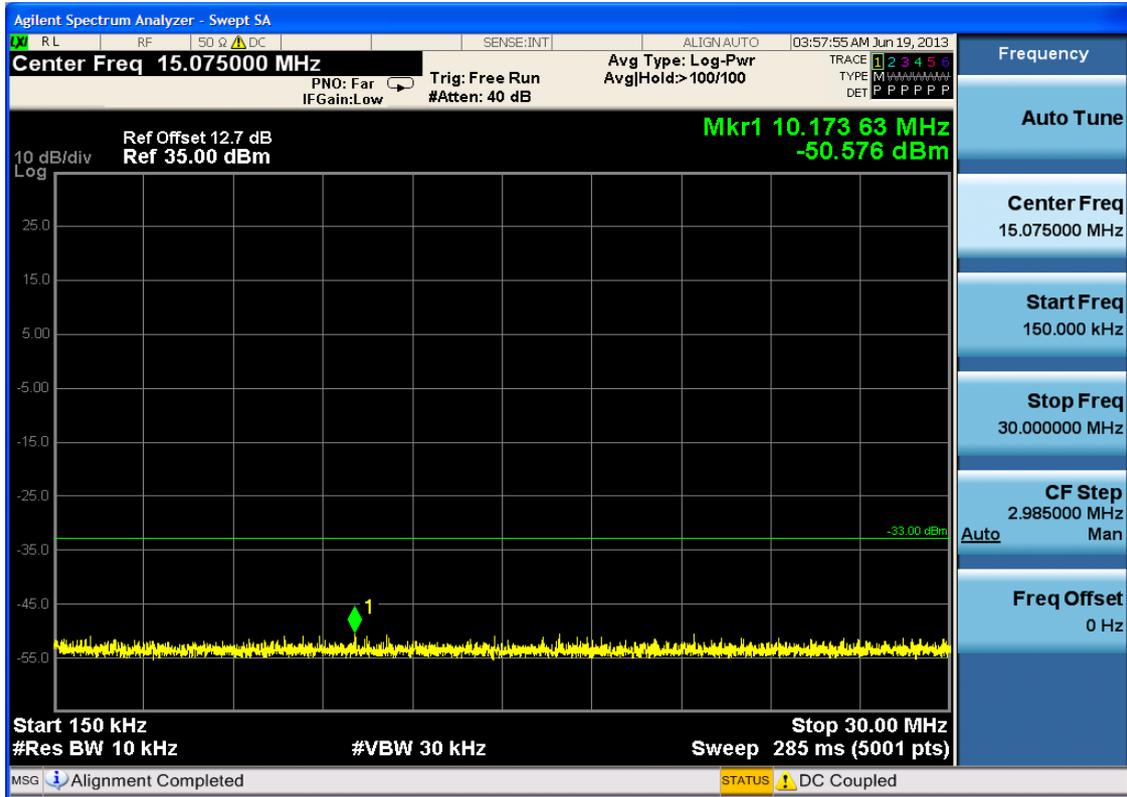


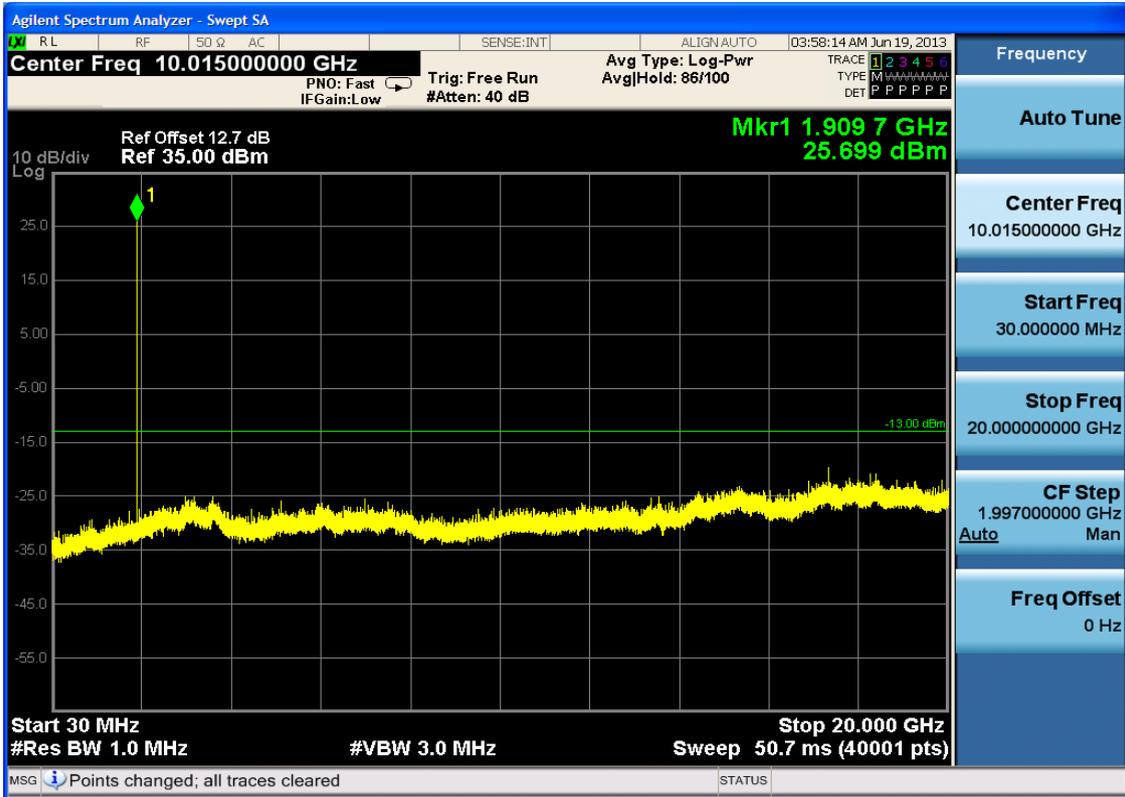




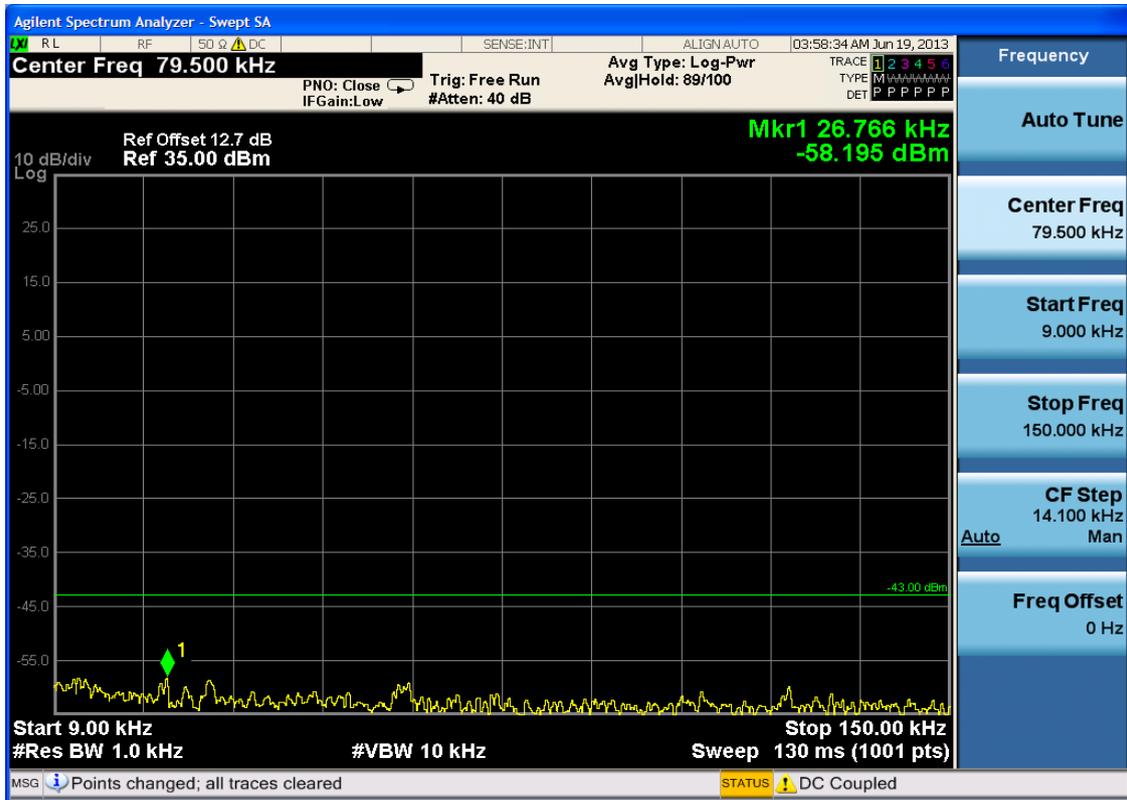
6.1.1.2.2 Test Channel = MCH

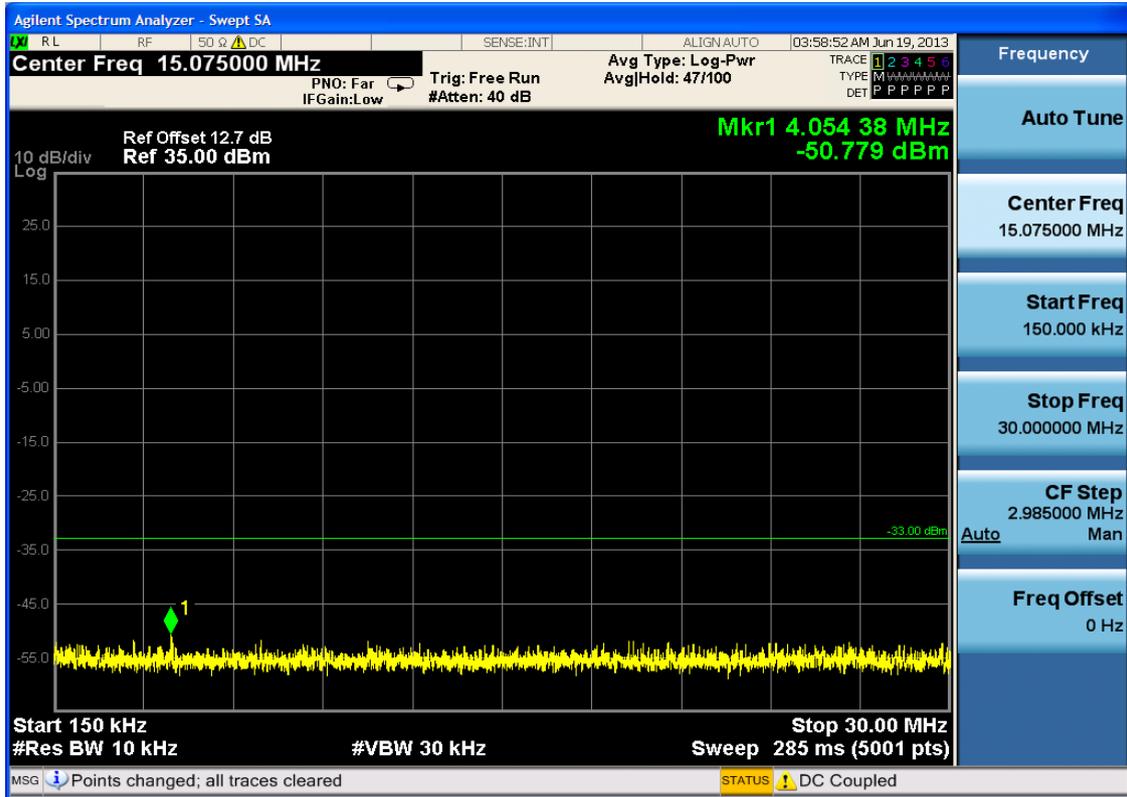






6.1.1.2.3 Test Channel = HCH



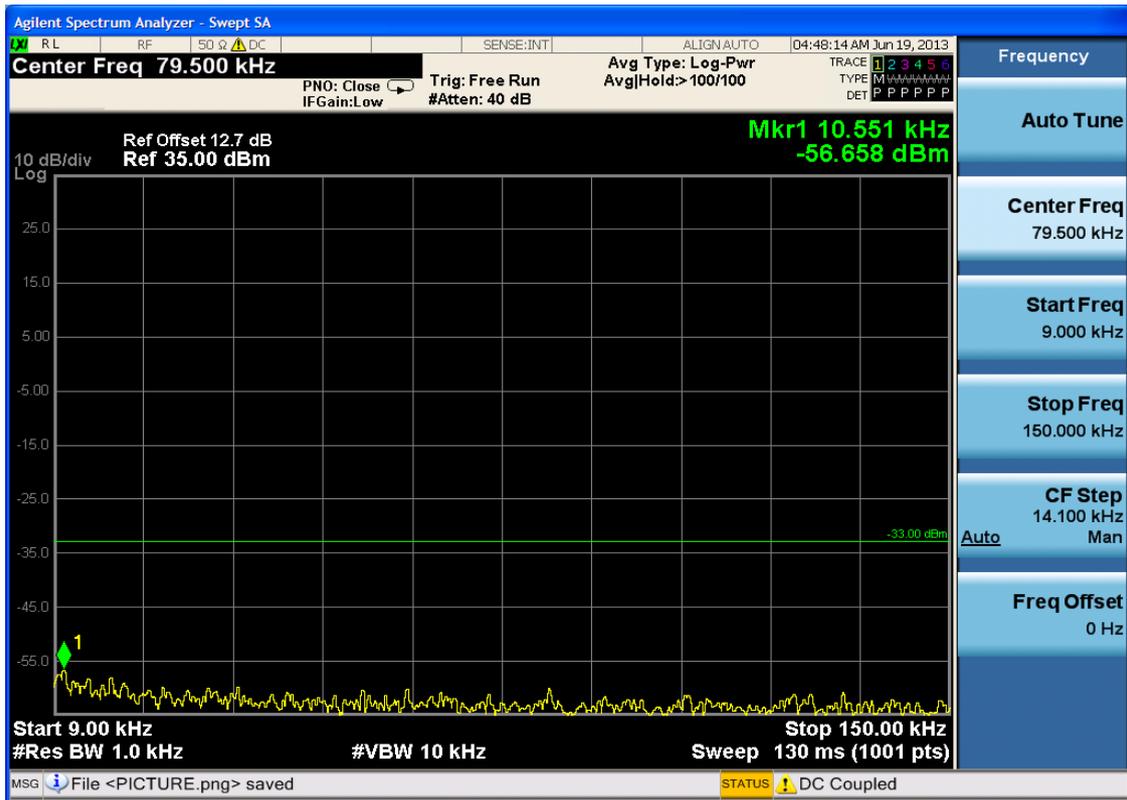


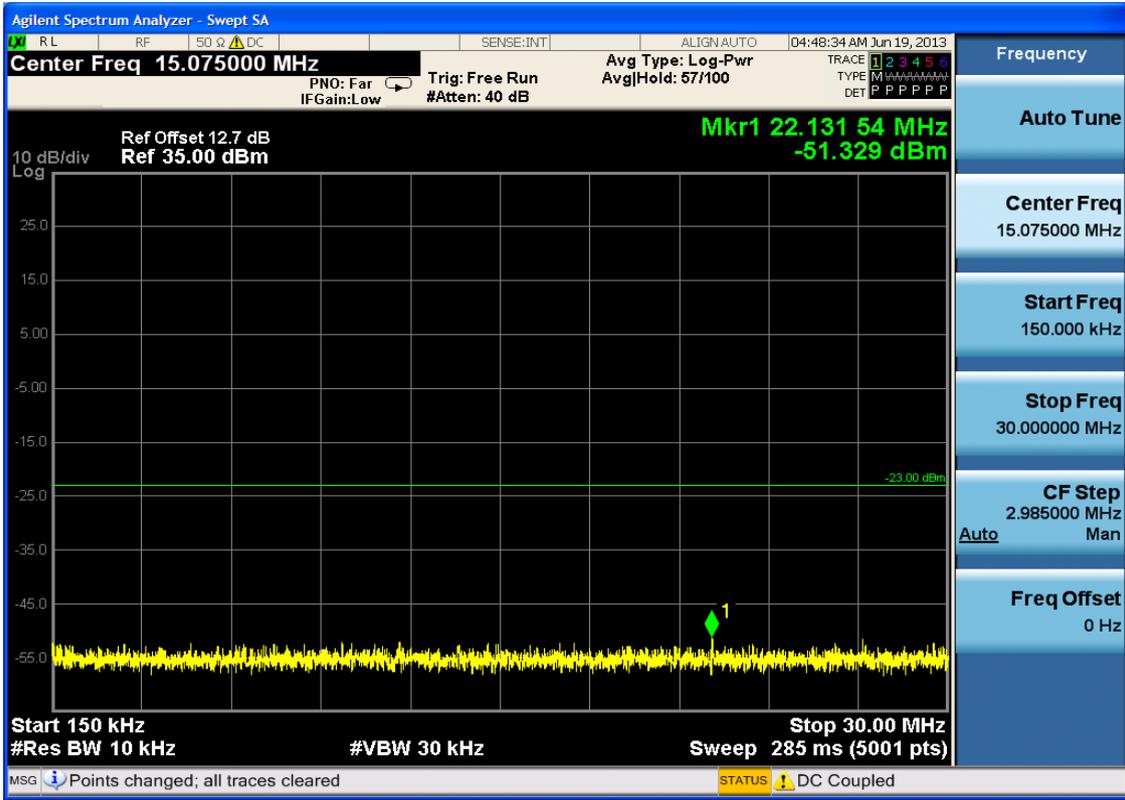


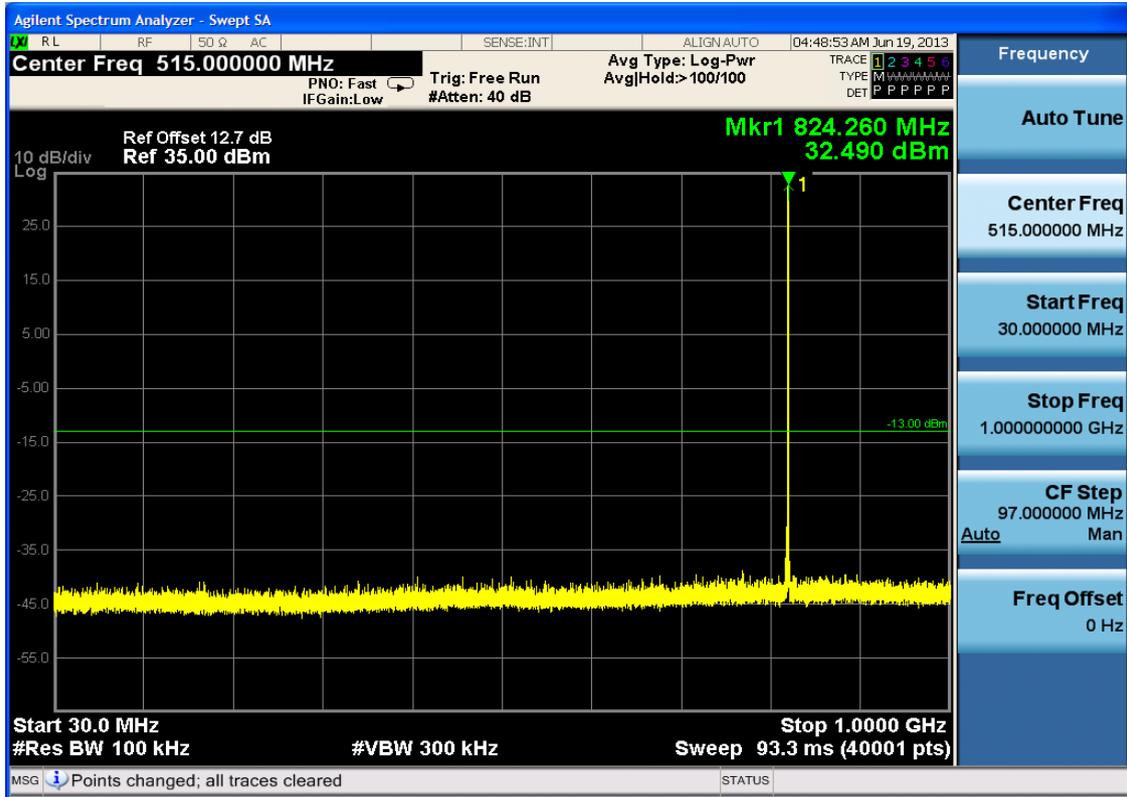
6.1.2 Test Band = GSM850

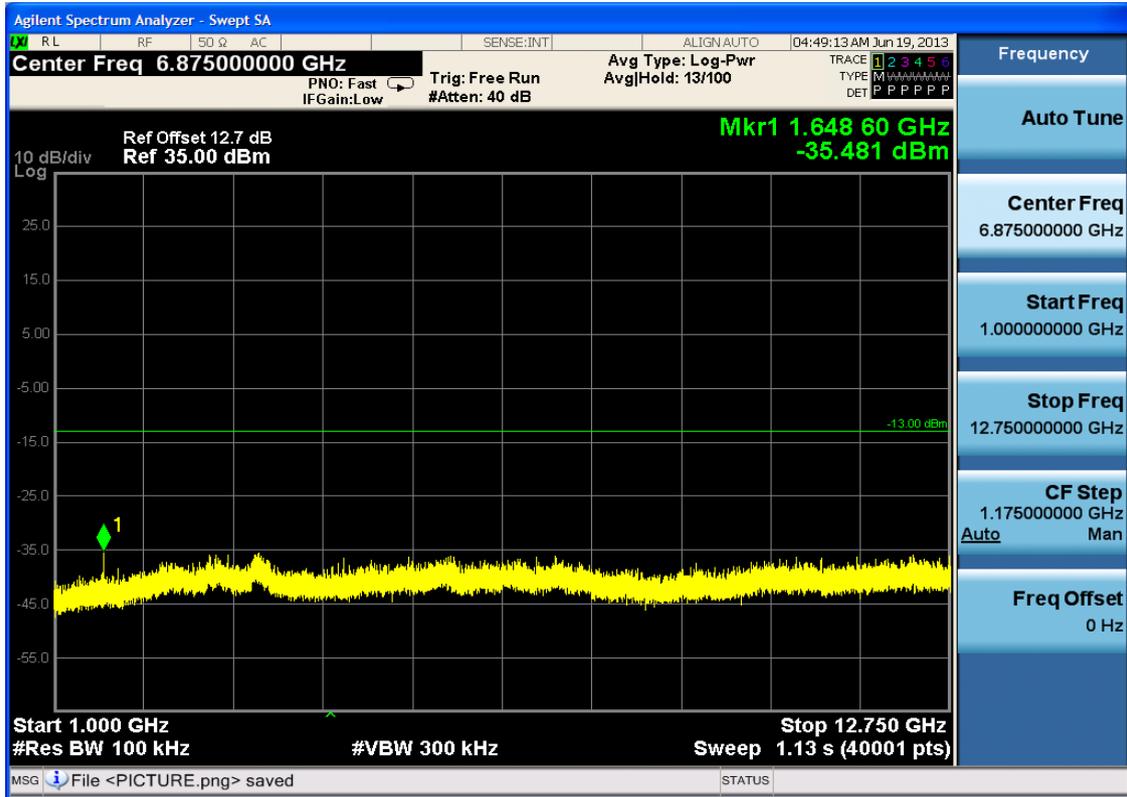
6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH



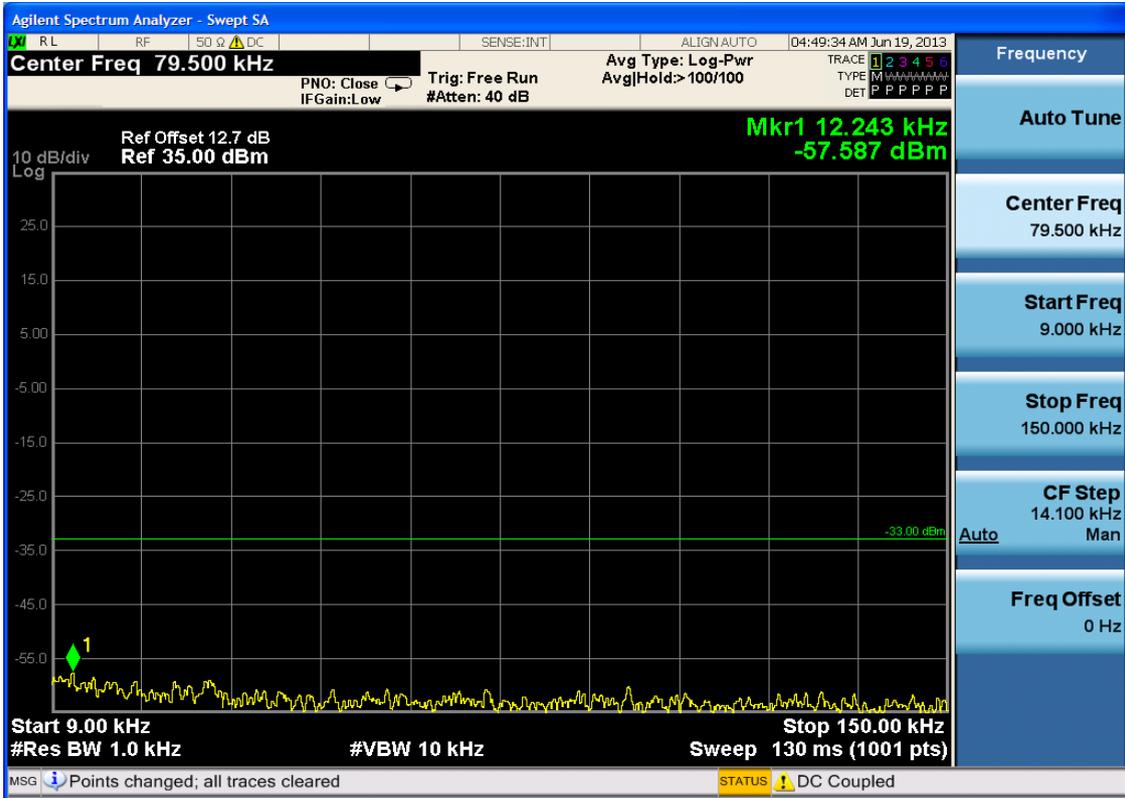


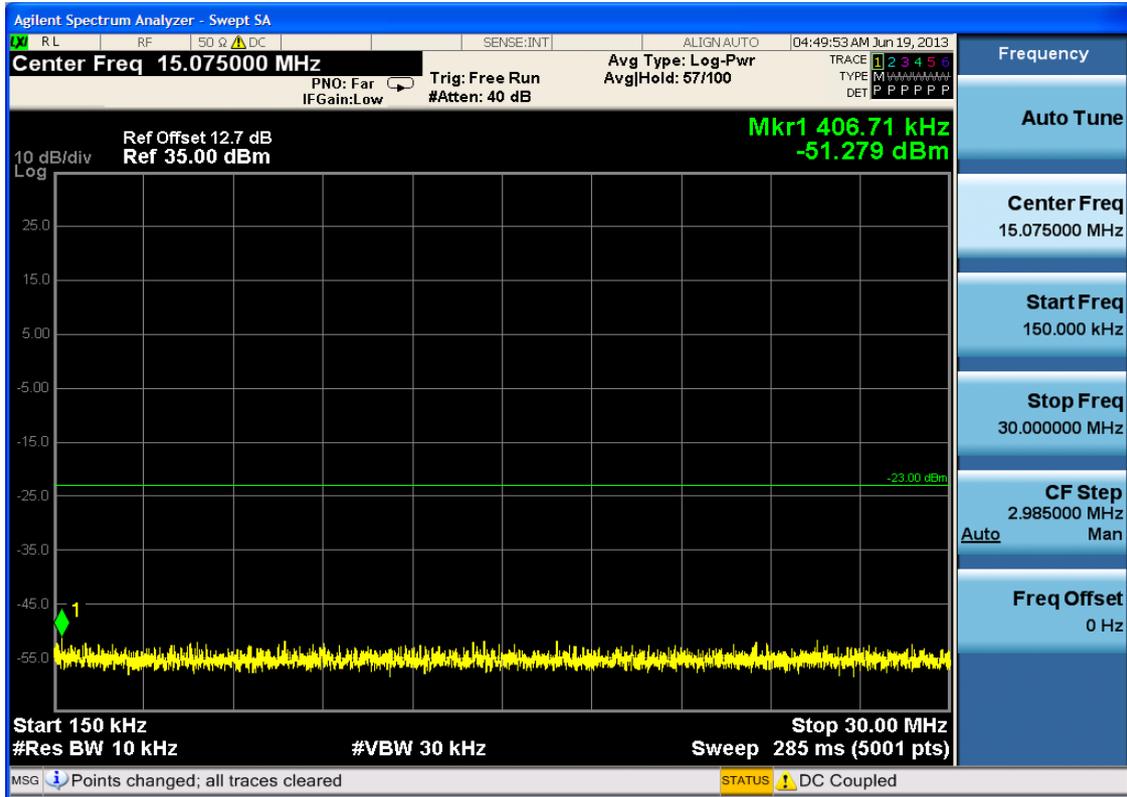


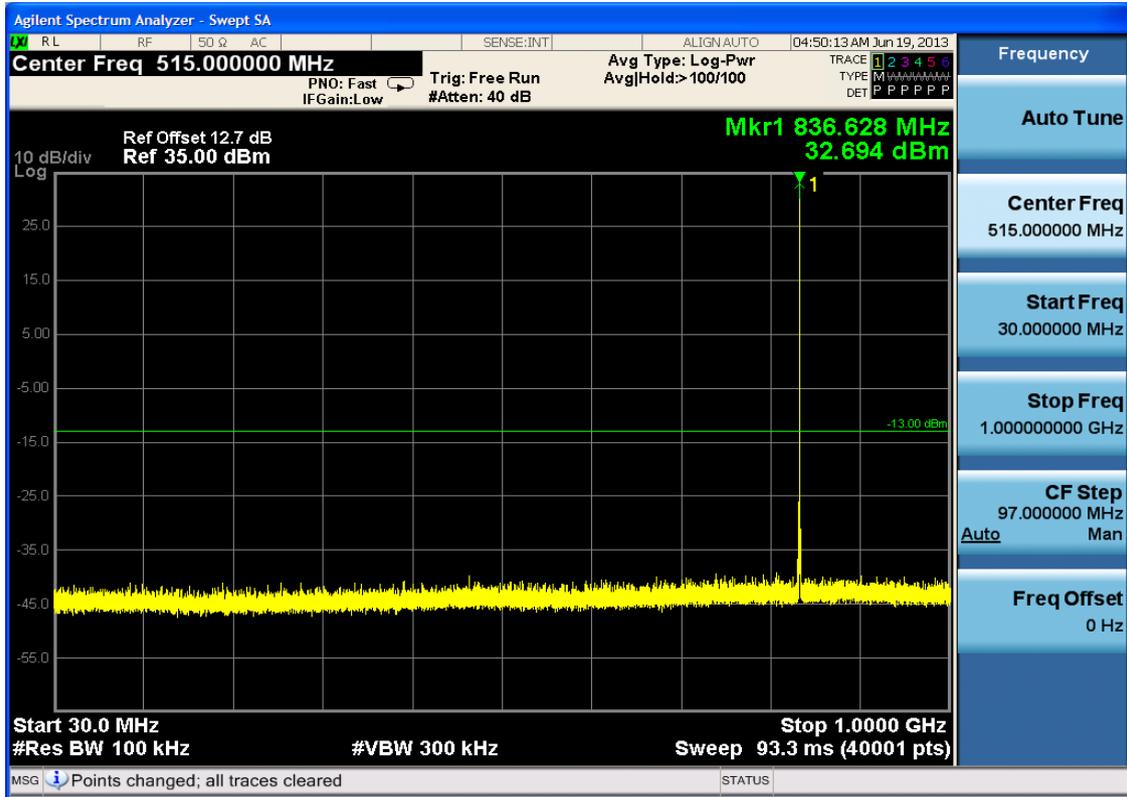


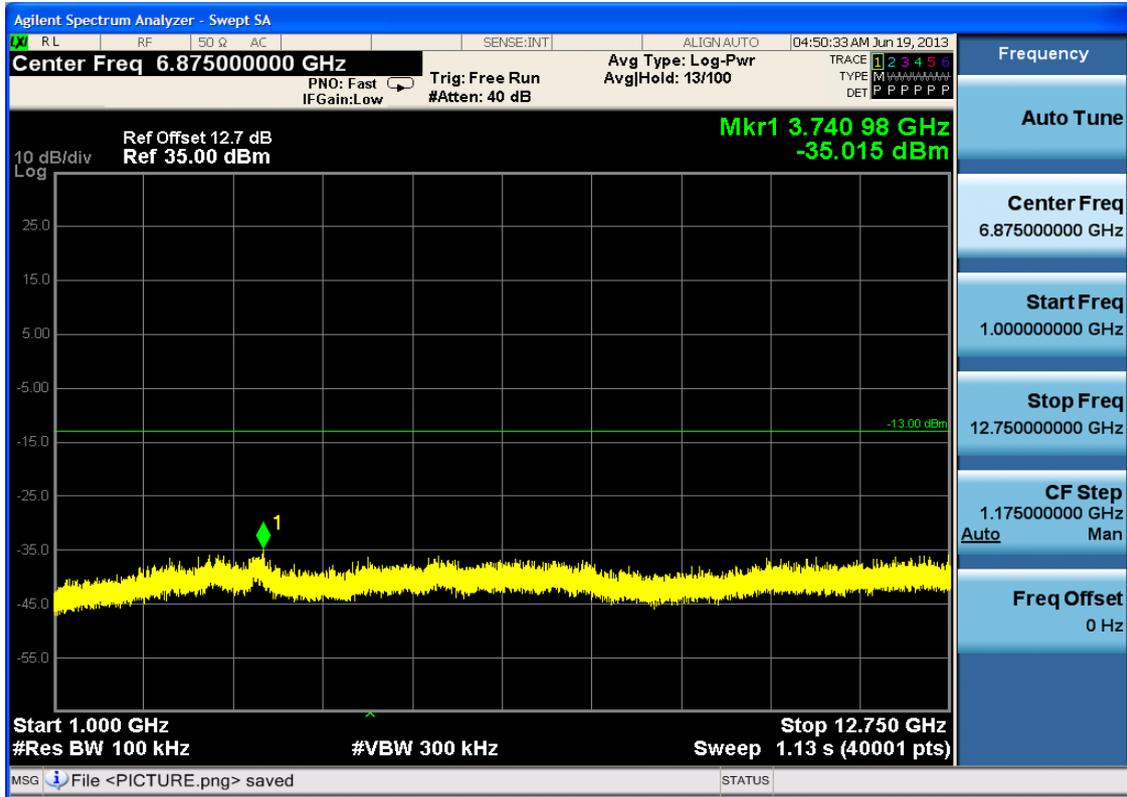


6.1.2.1.2 Test Channel = MCH





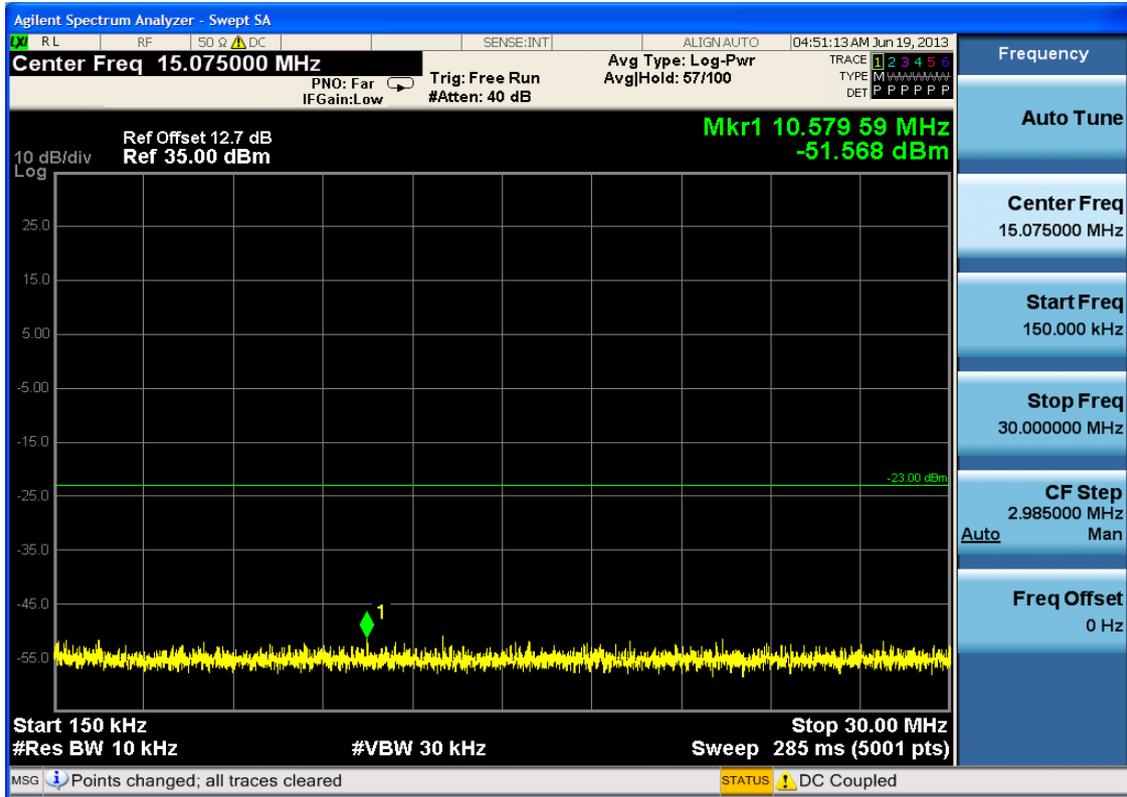


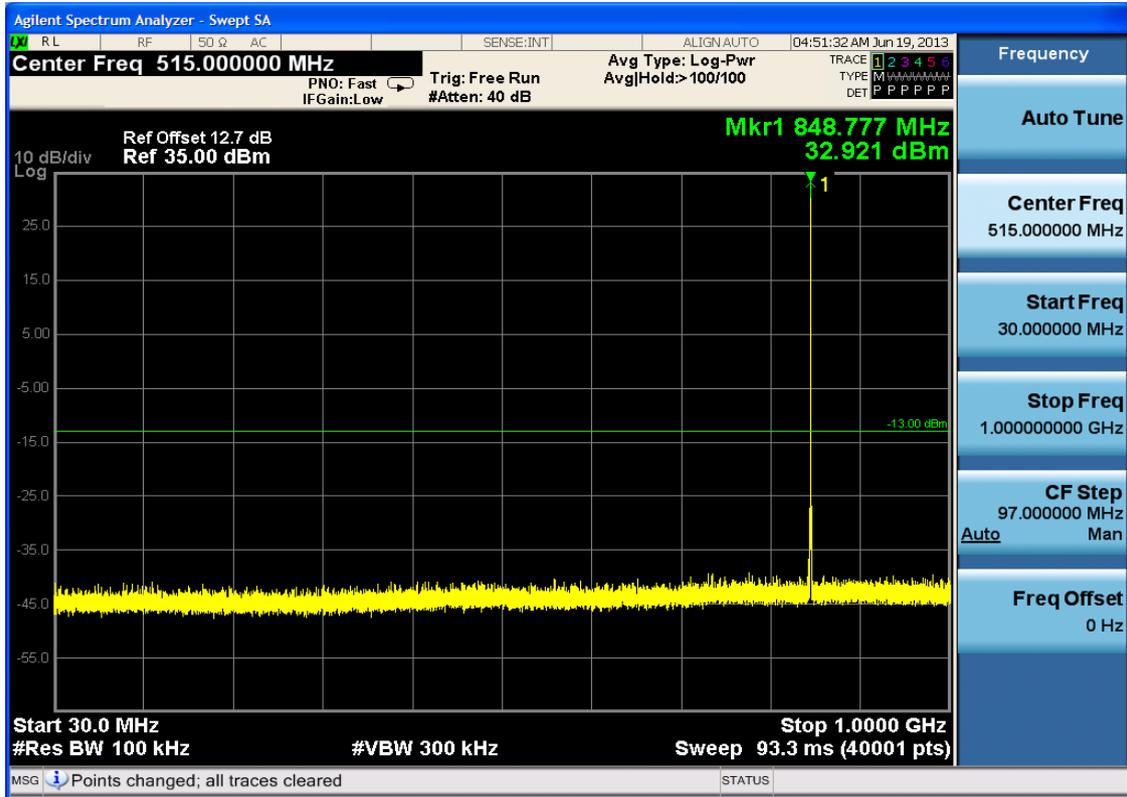


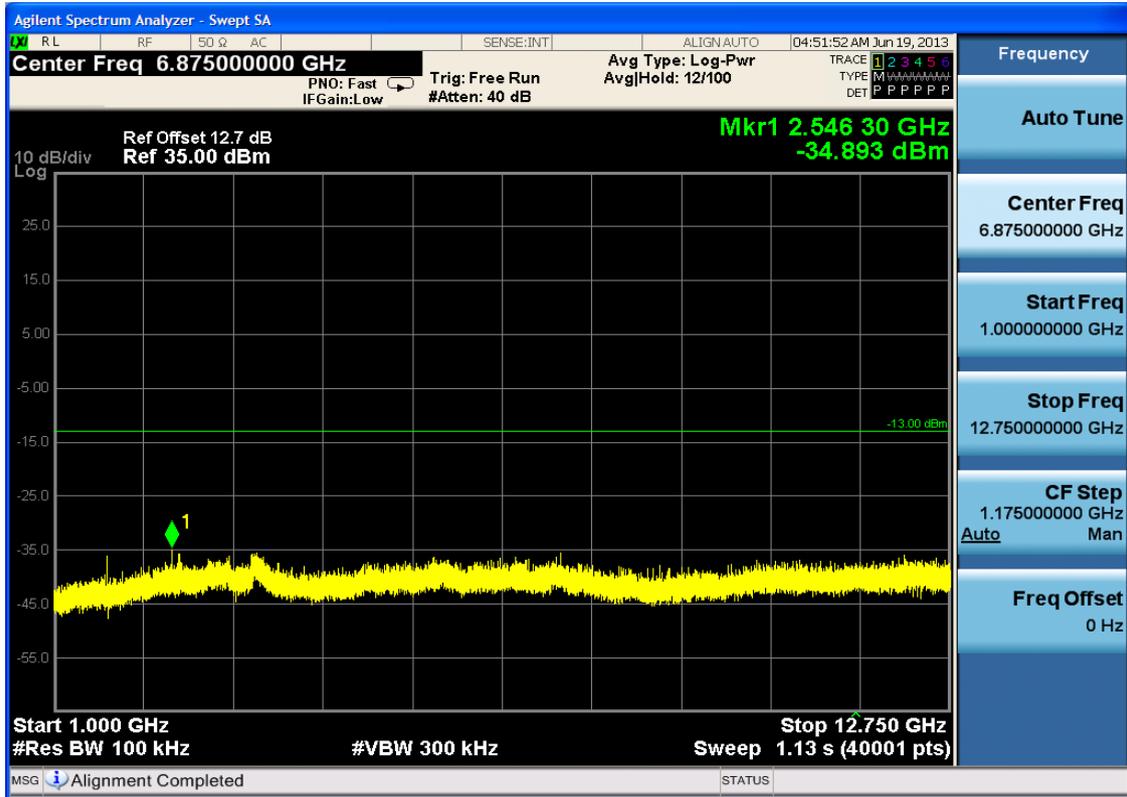


6.1.2.1.3 Test Channel = HCH



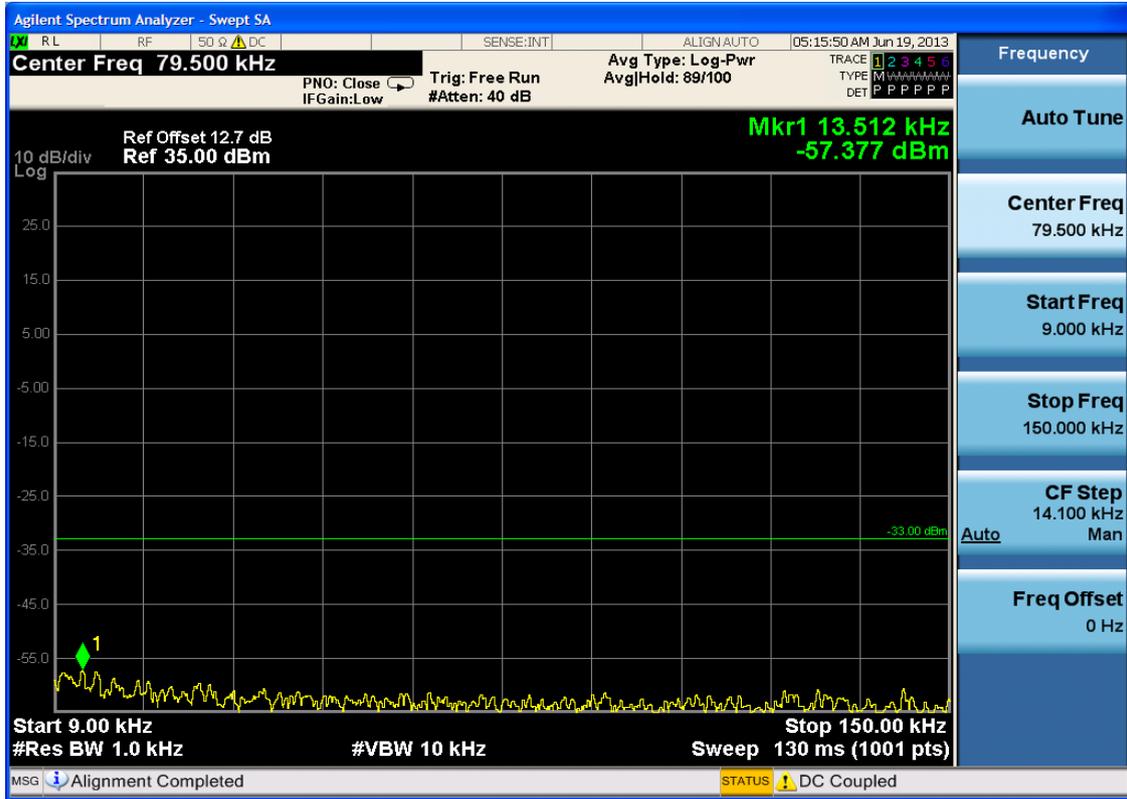


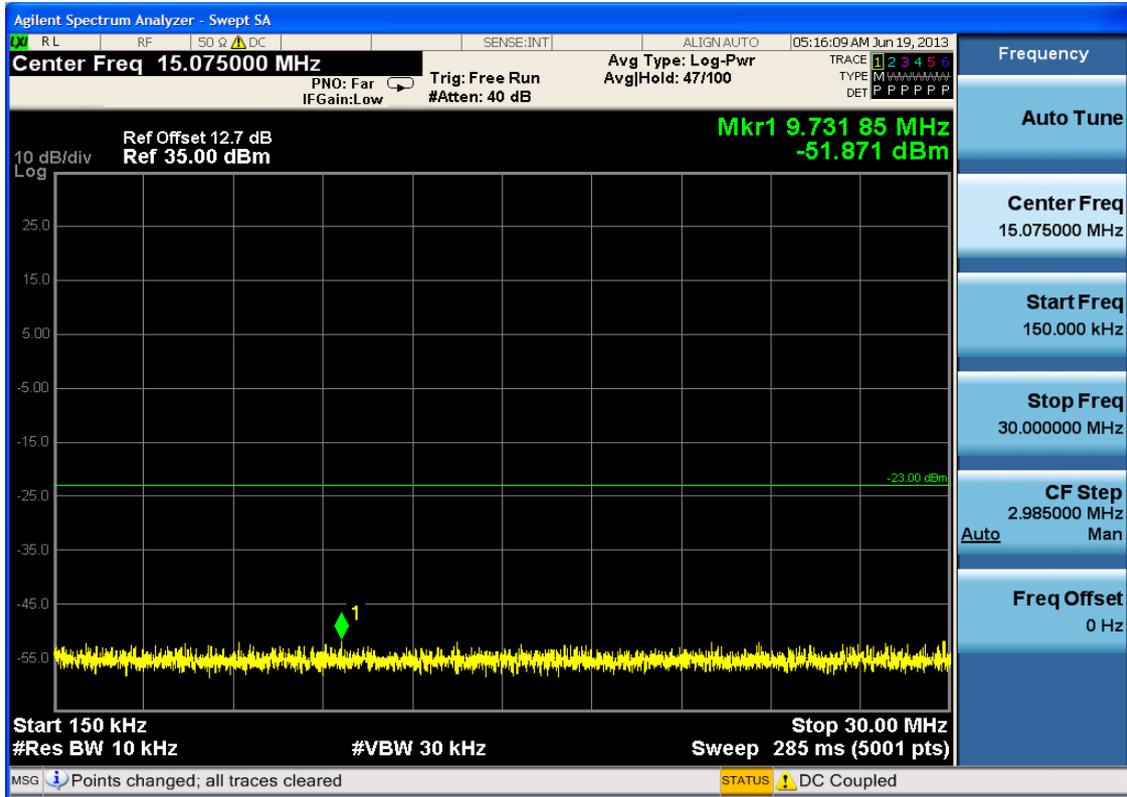


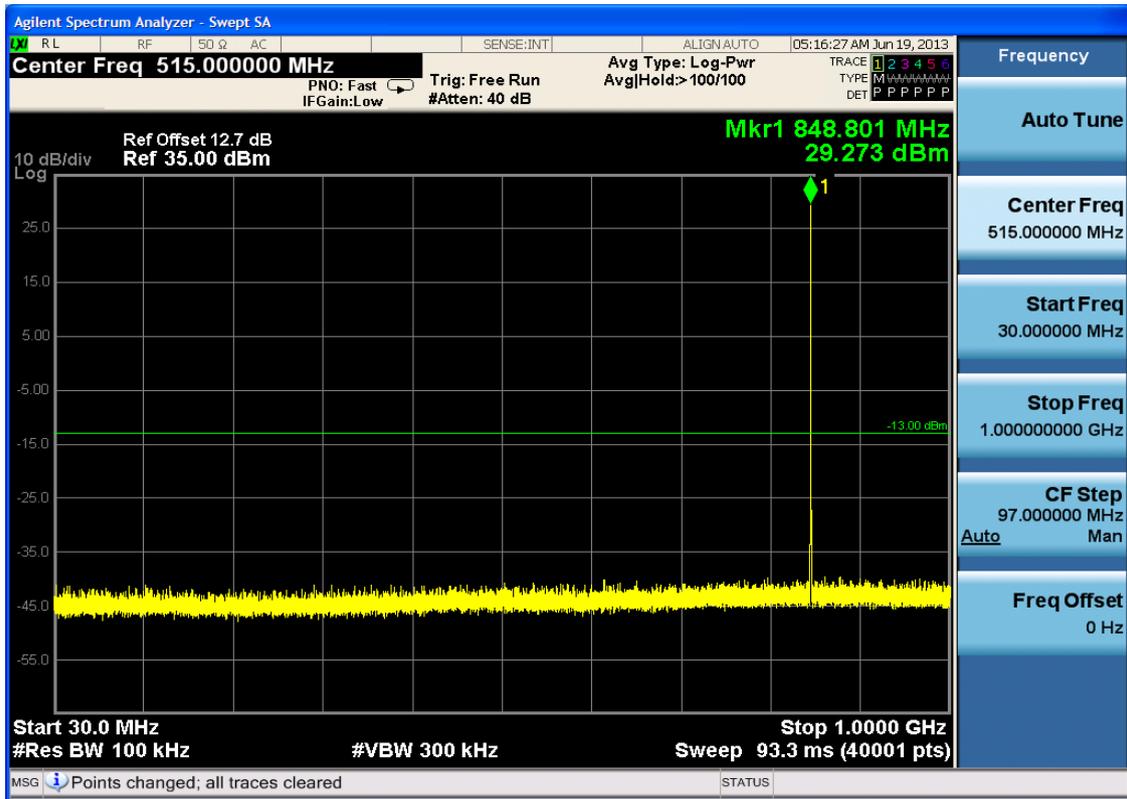


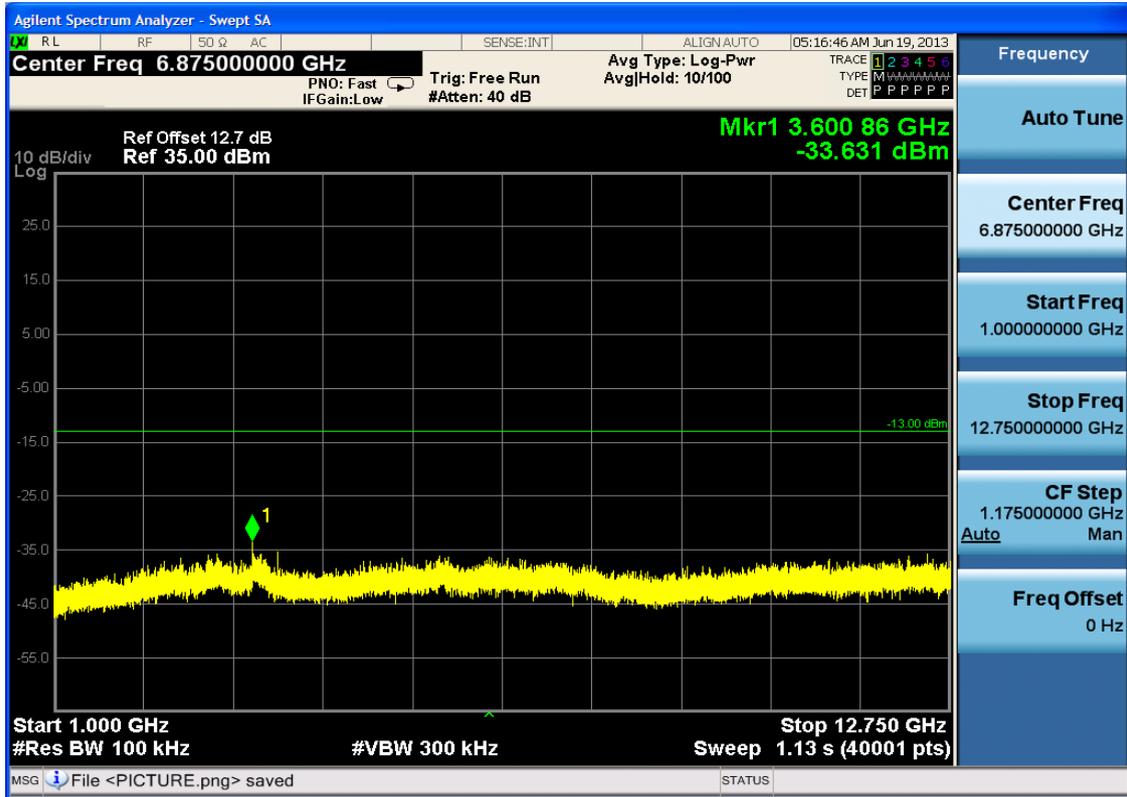
6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH



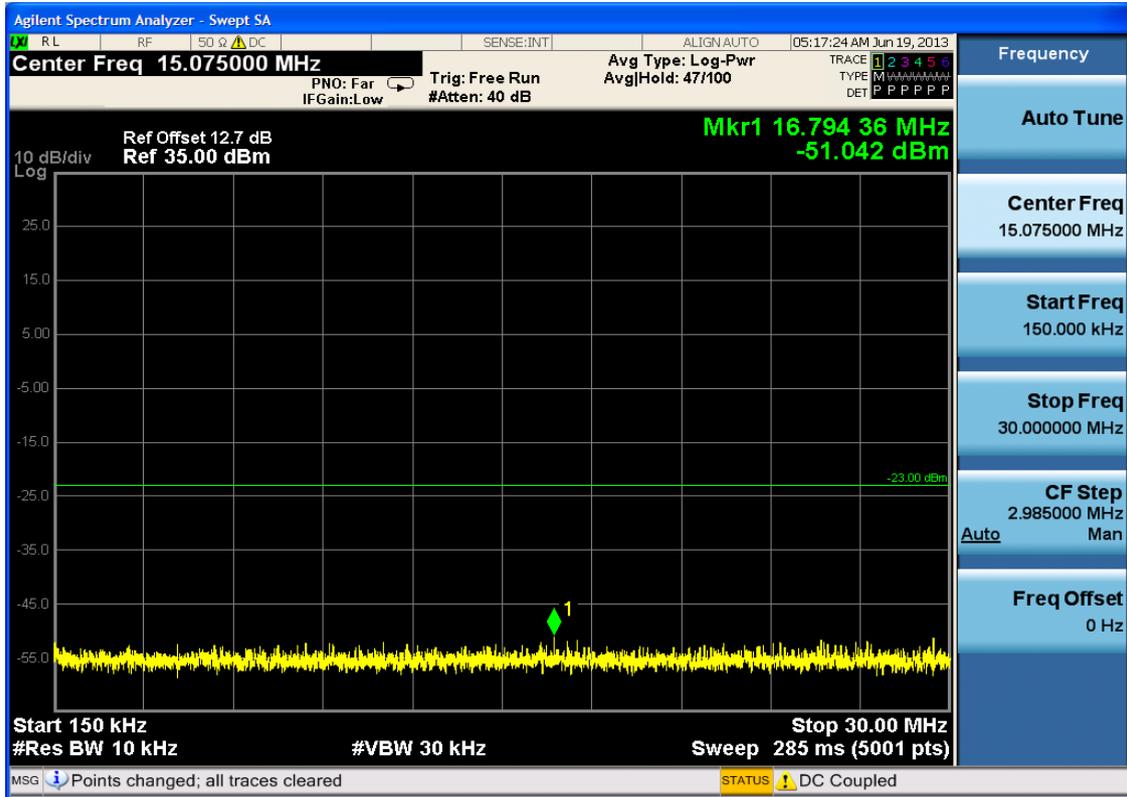


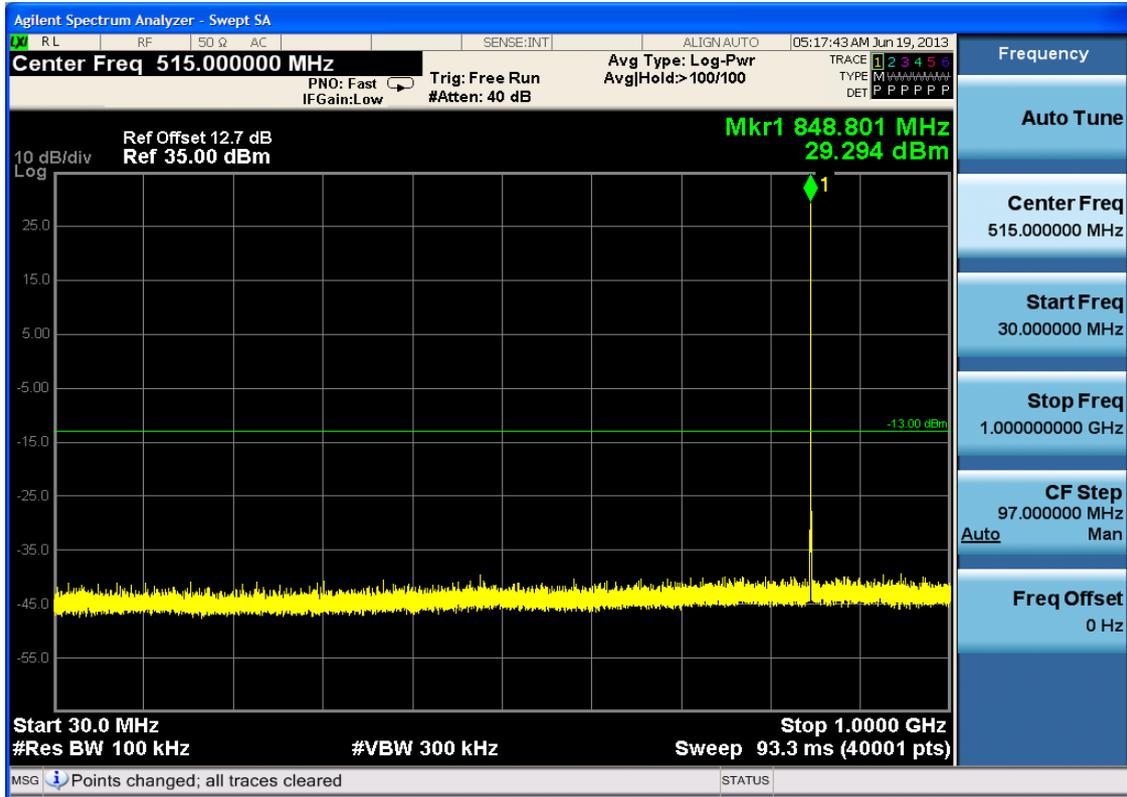


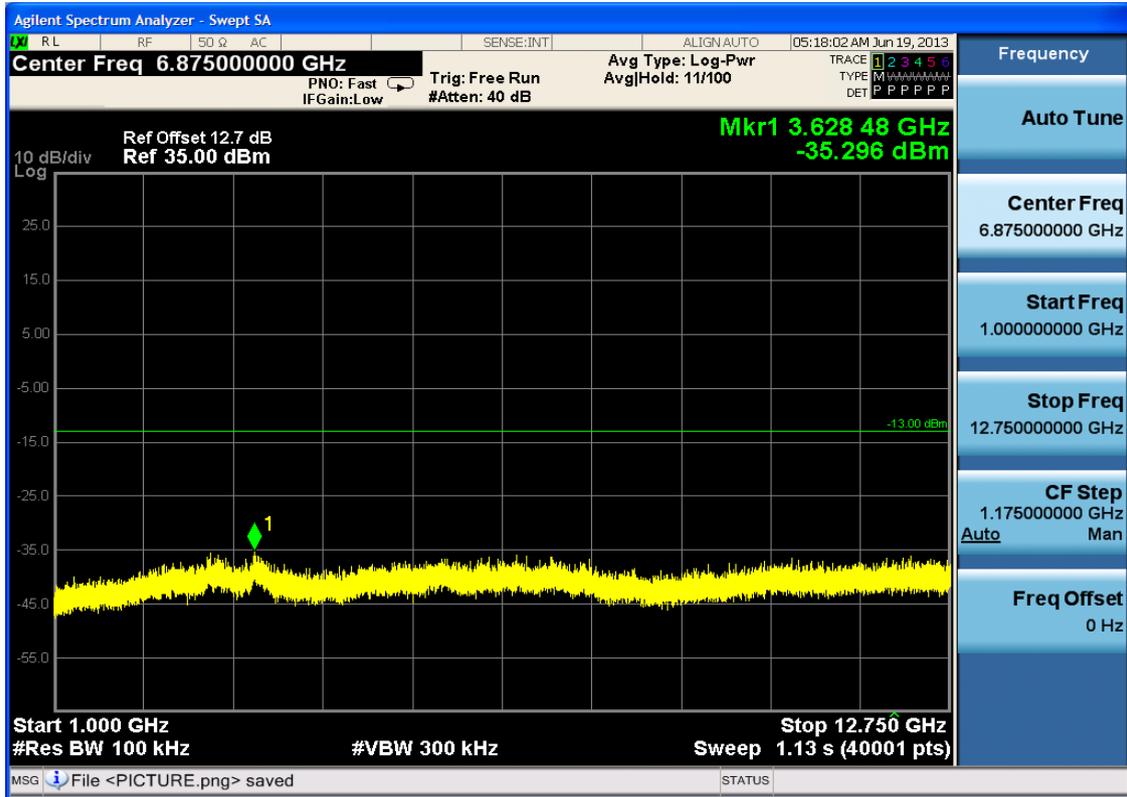


6.1.2.2.2 Test Channel = MCH



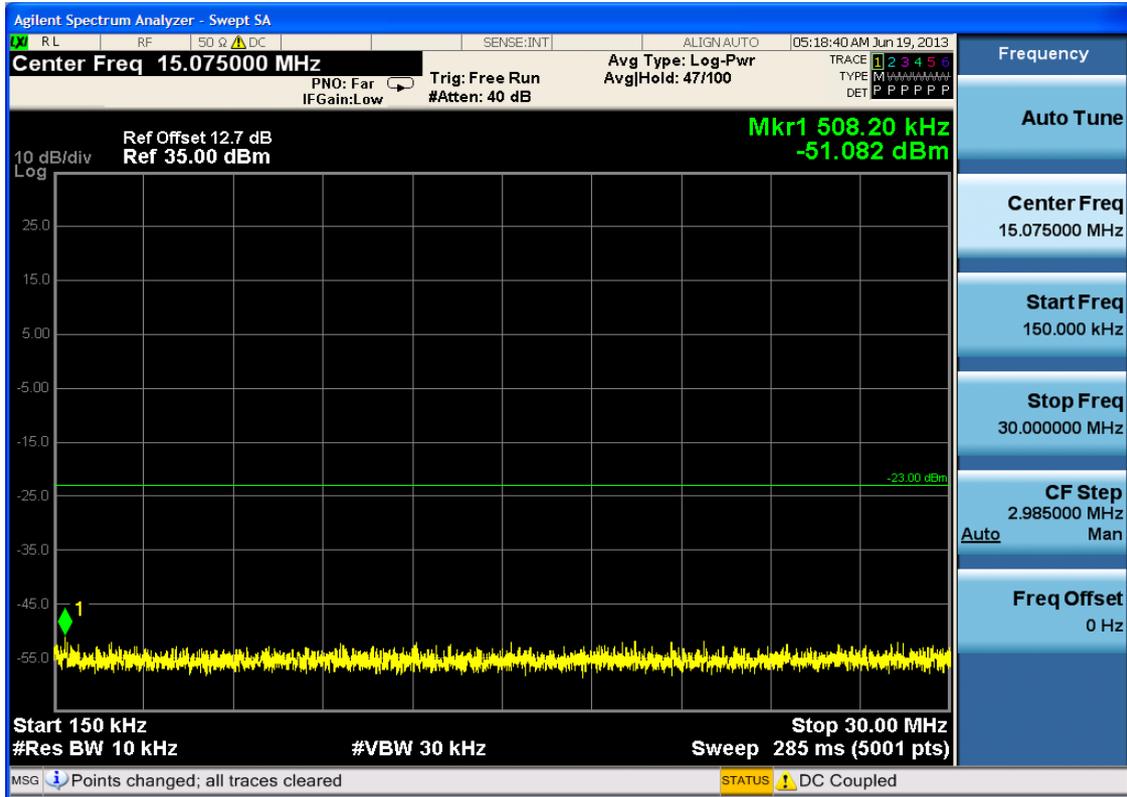


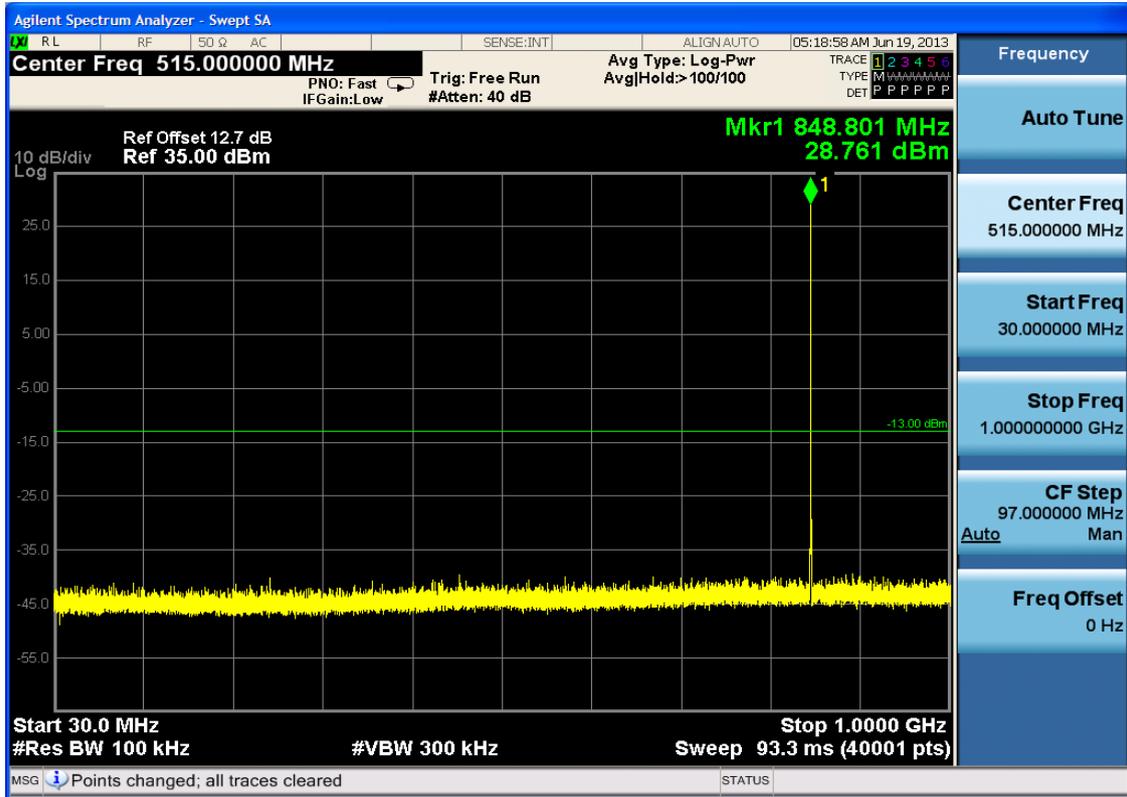


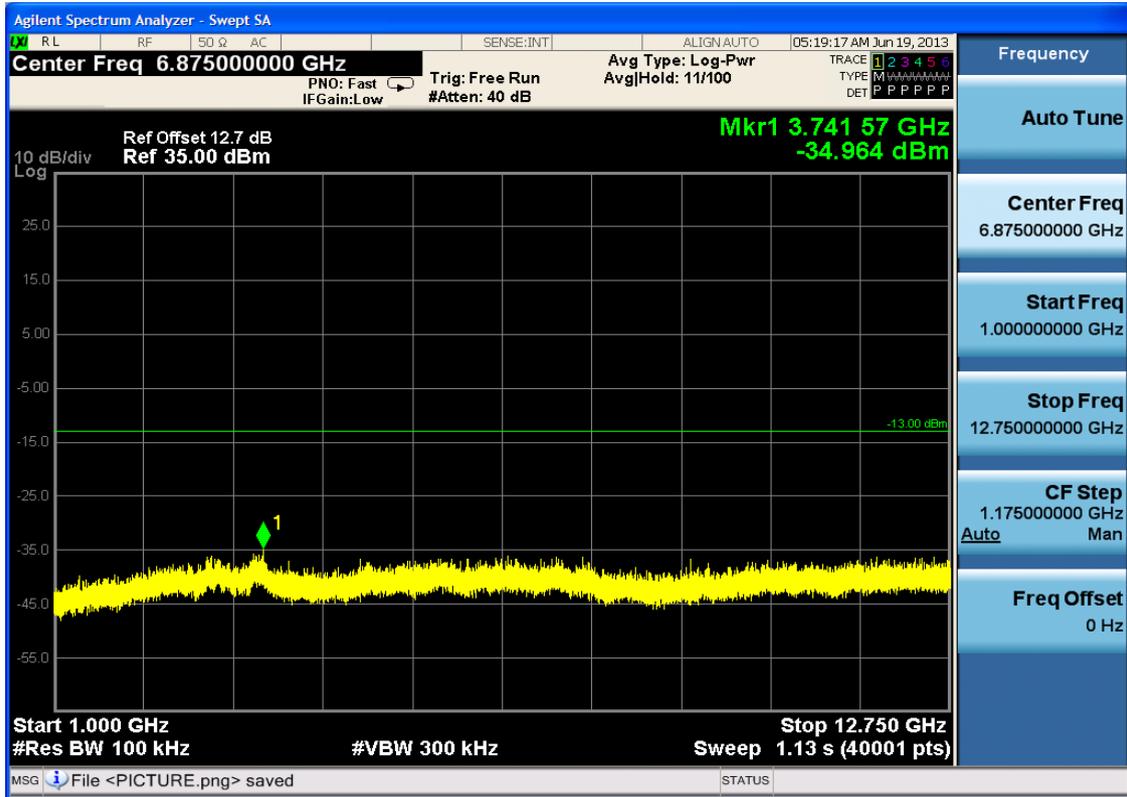


6.1.2.2.3 Test Channel = HCH







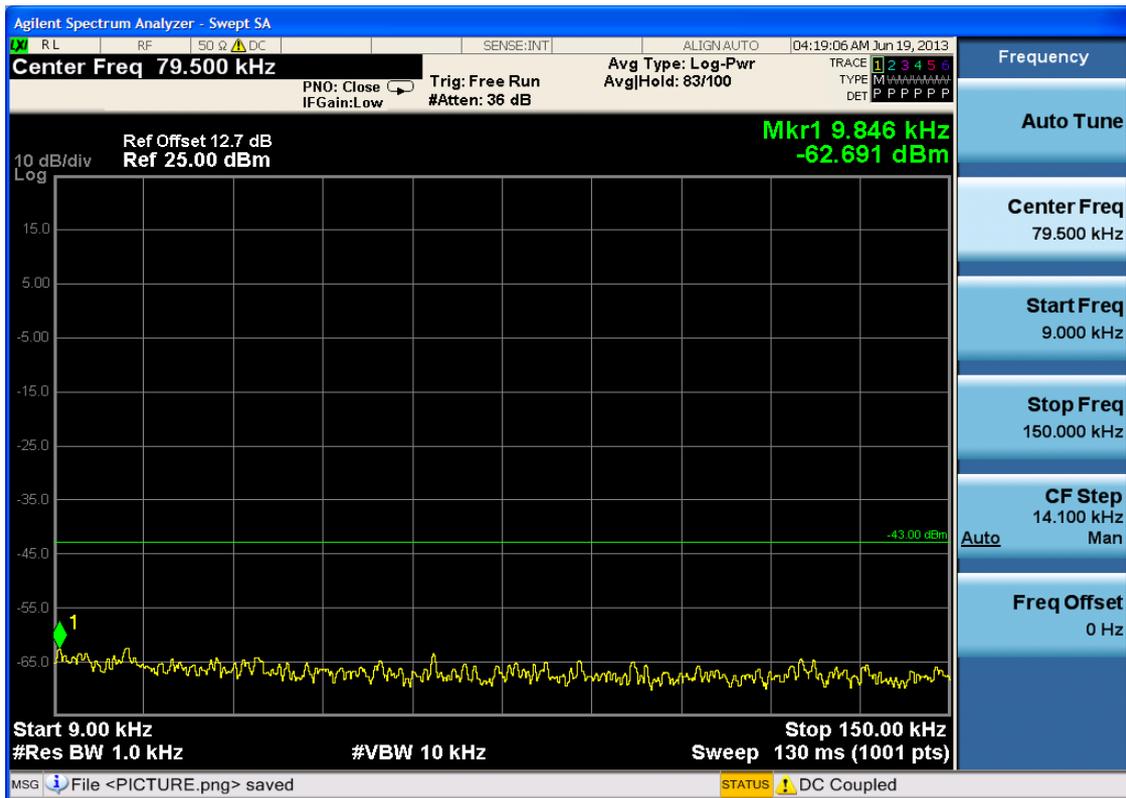


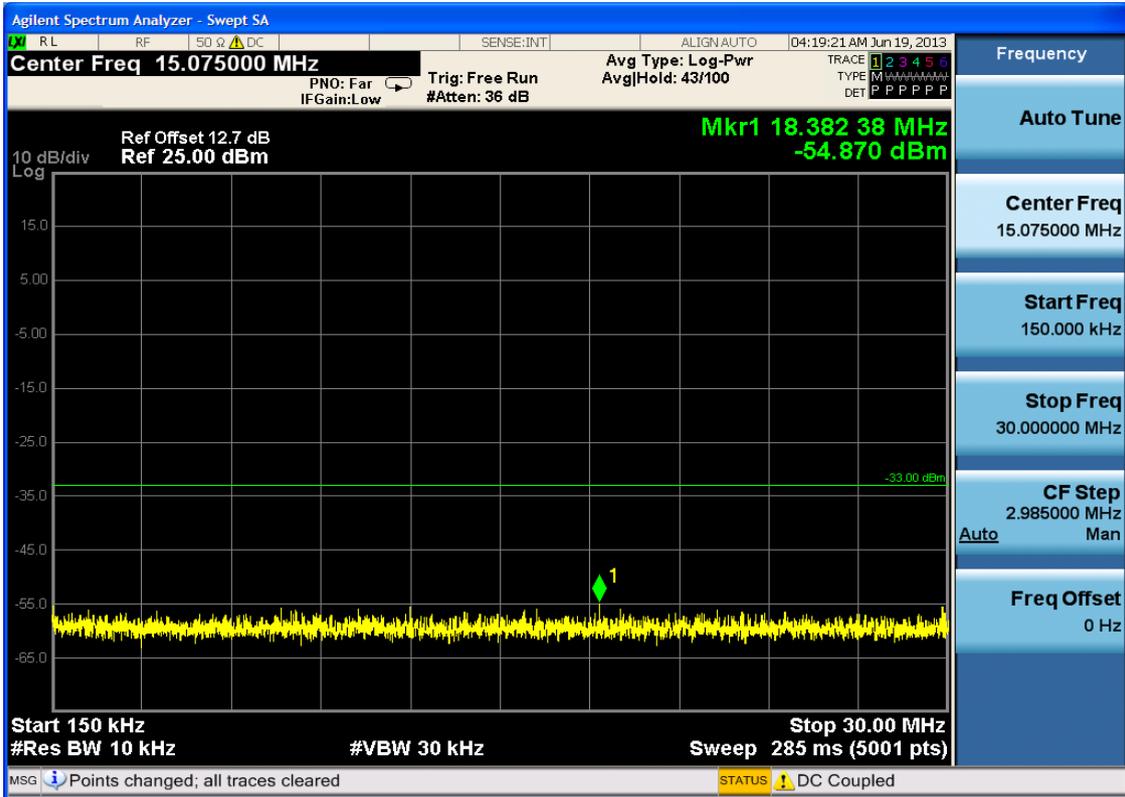
6.2 For UMTS

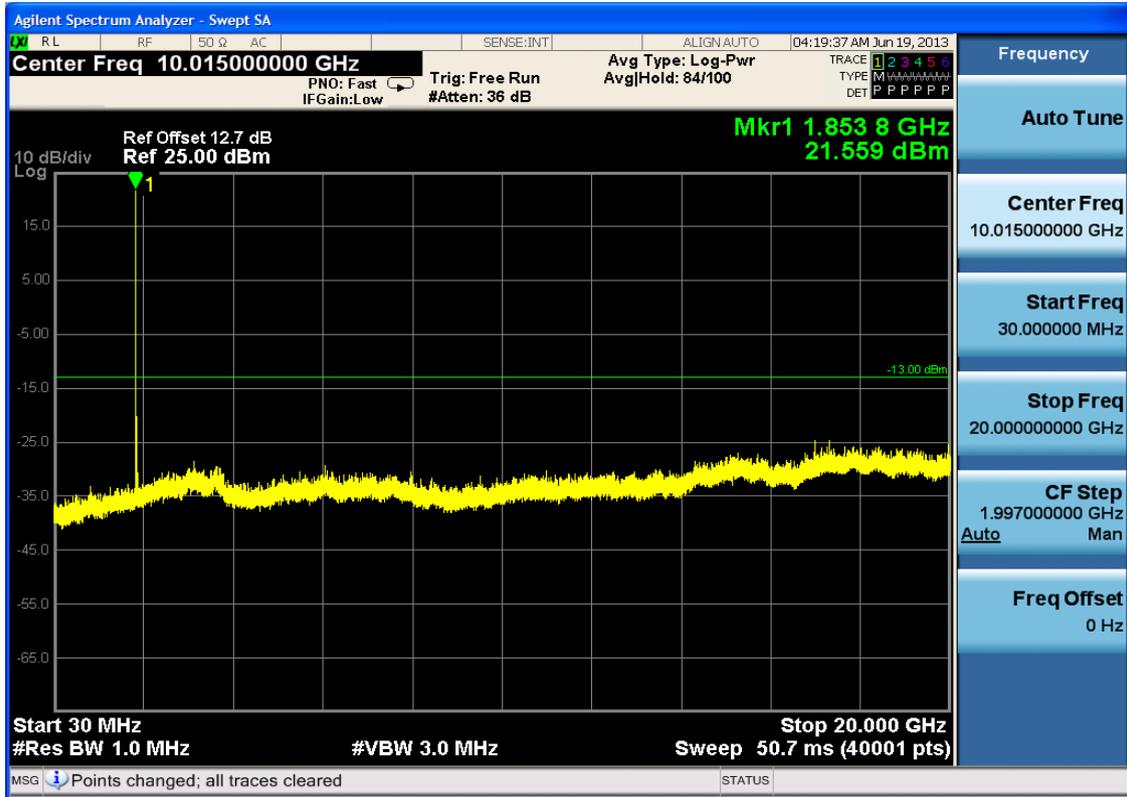
6.2.1 Test Band = WCDMA1900

6.2.1.1 Test Mode = UMTS/TM1

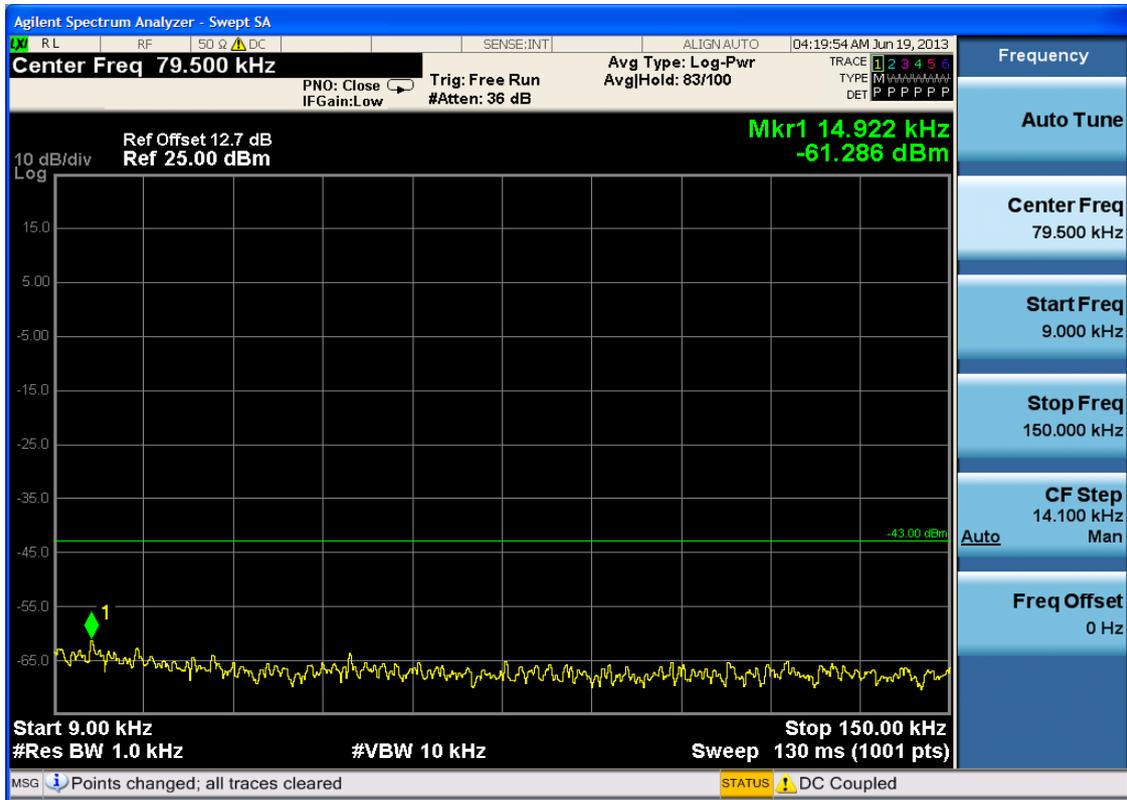
6.2.1.1.1 Test Channel = LCH

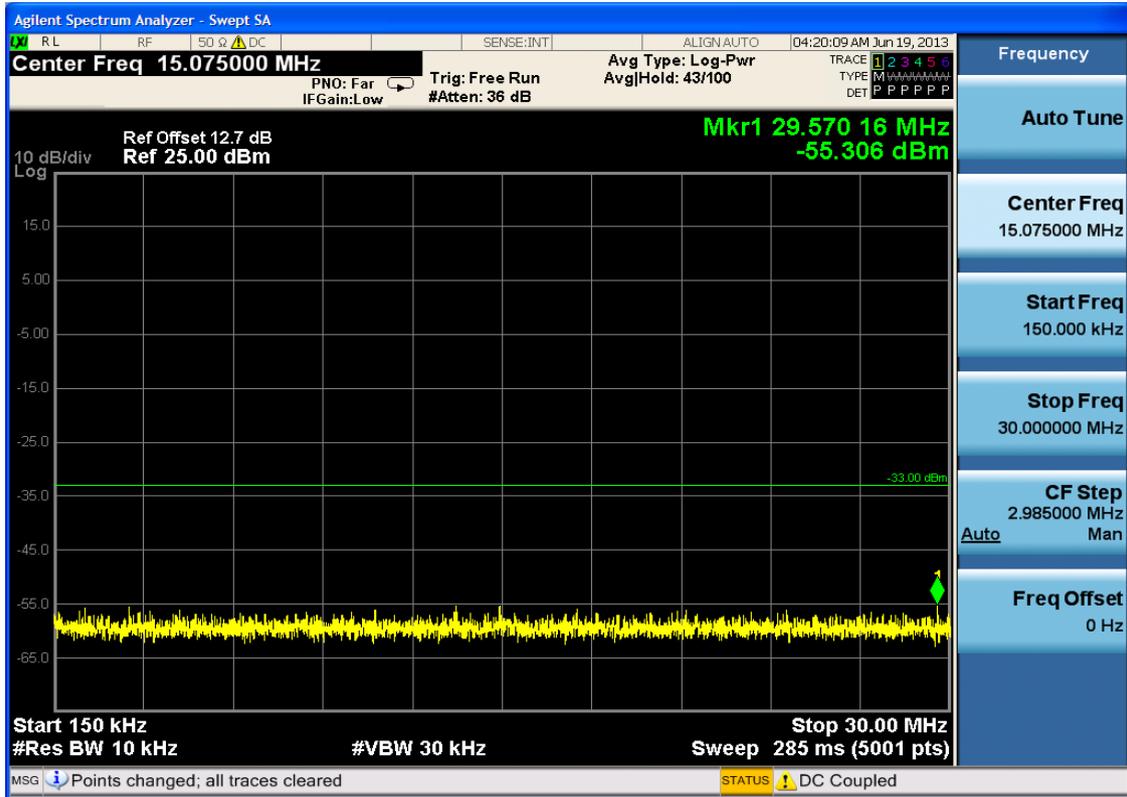


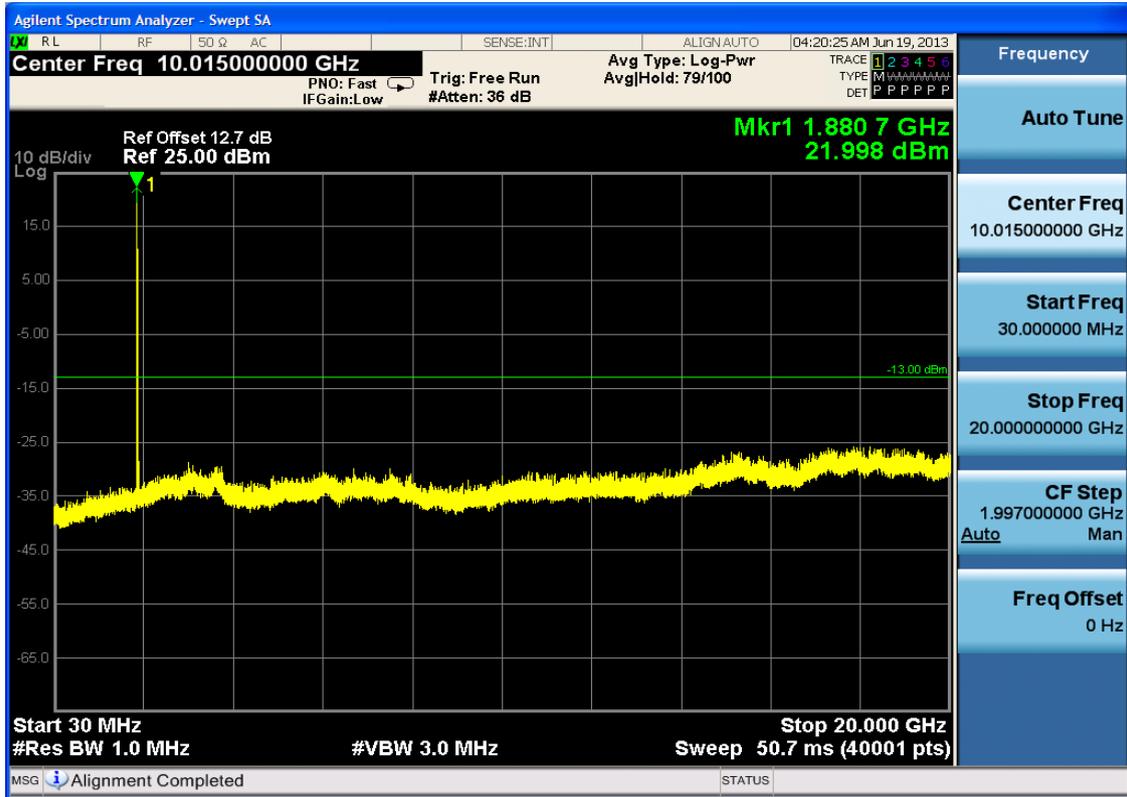




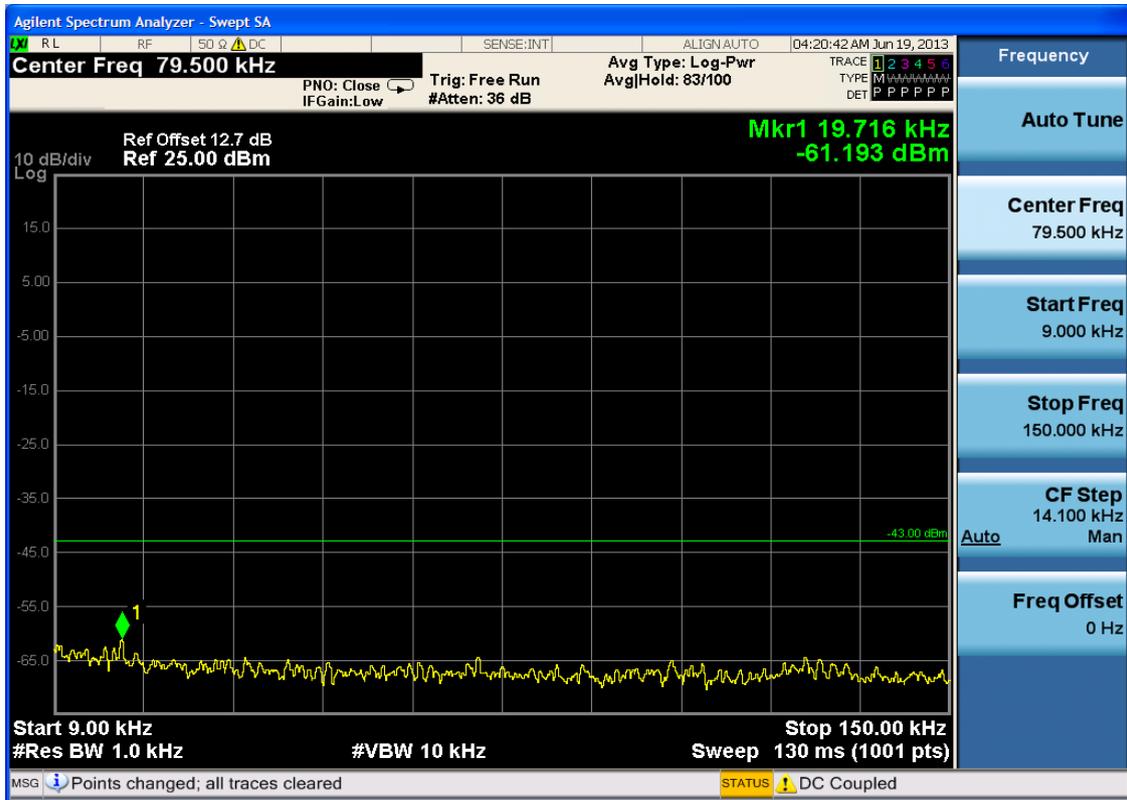
6.2.1.1.2 Test Channel = MCH

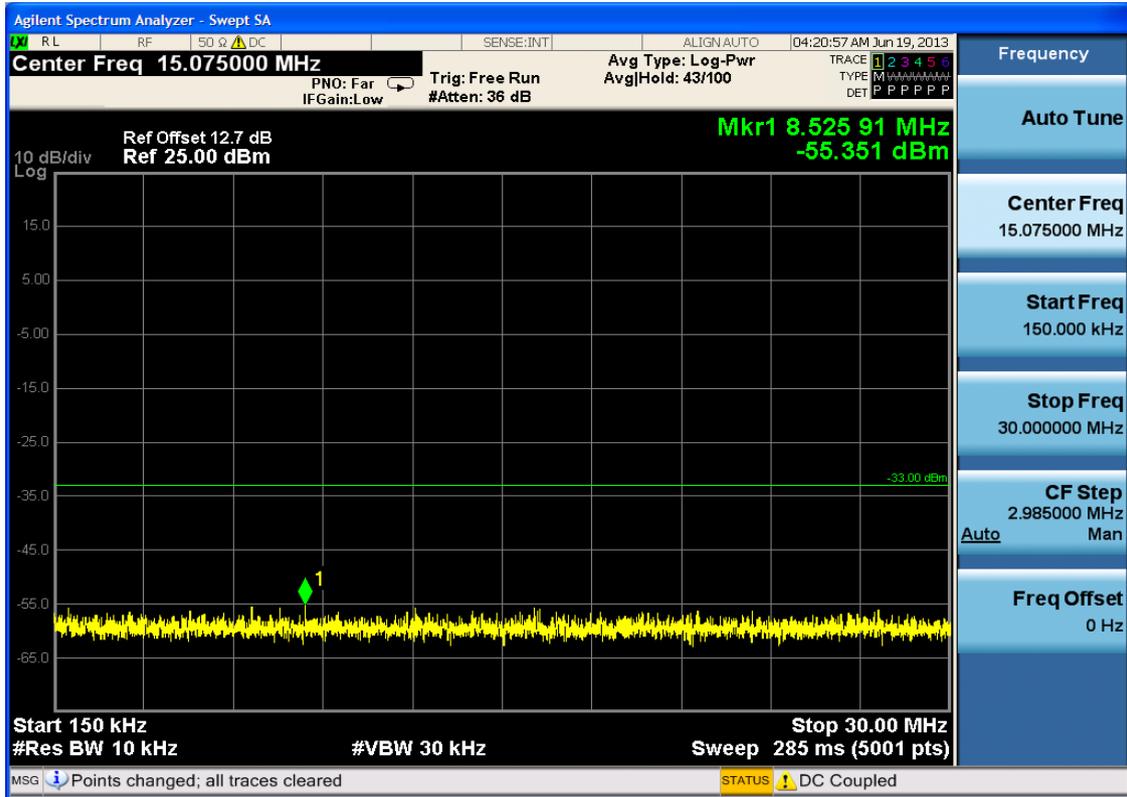


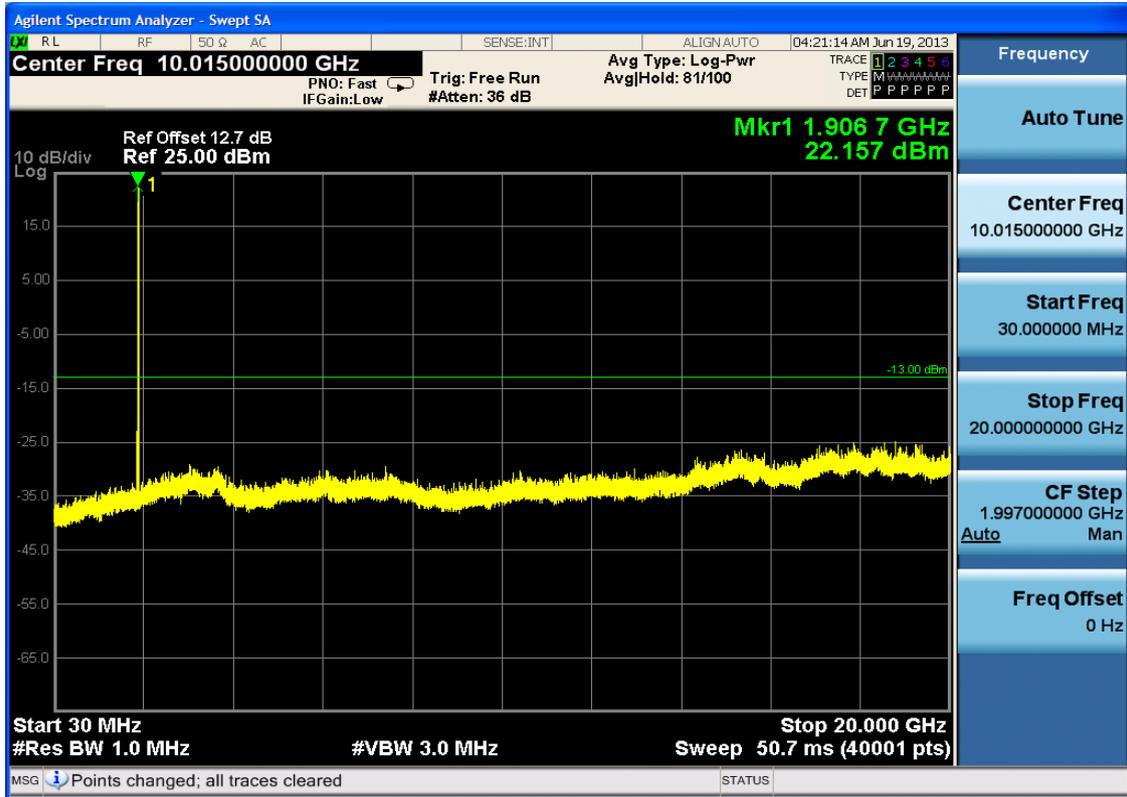




6.2.1.1.3 Test Channel = HCH



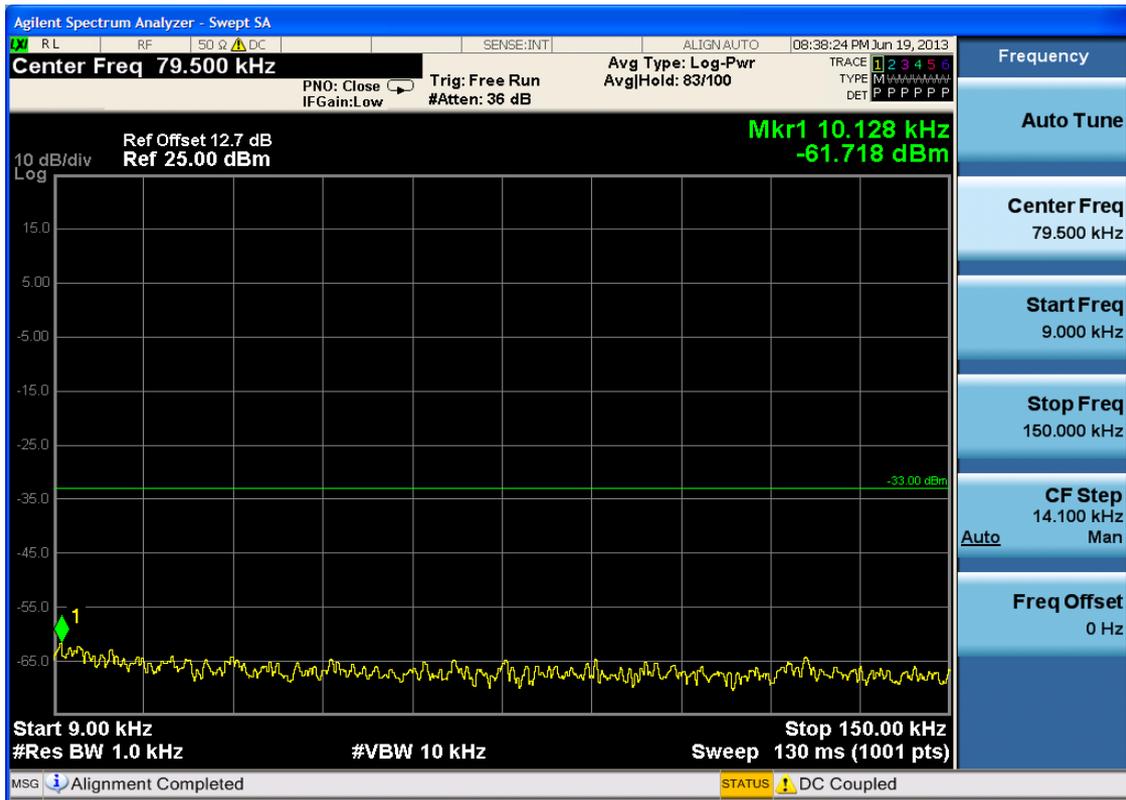


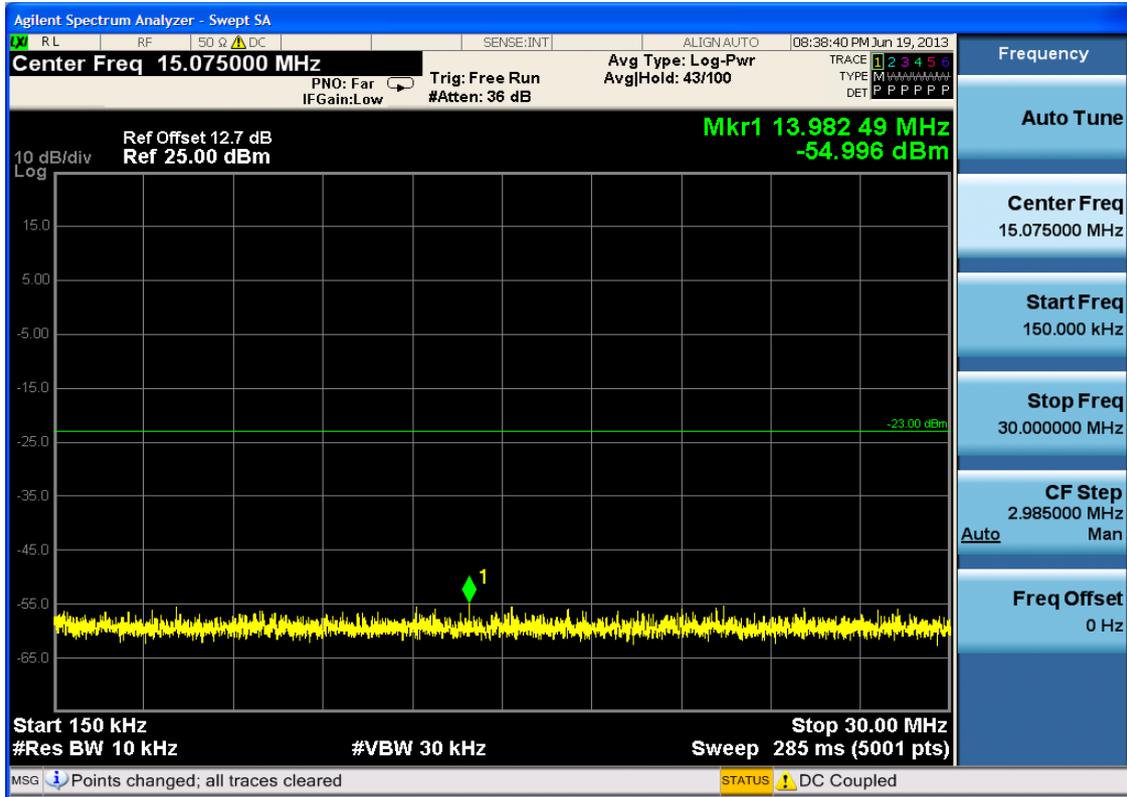


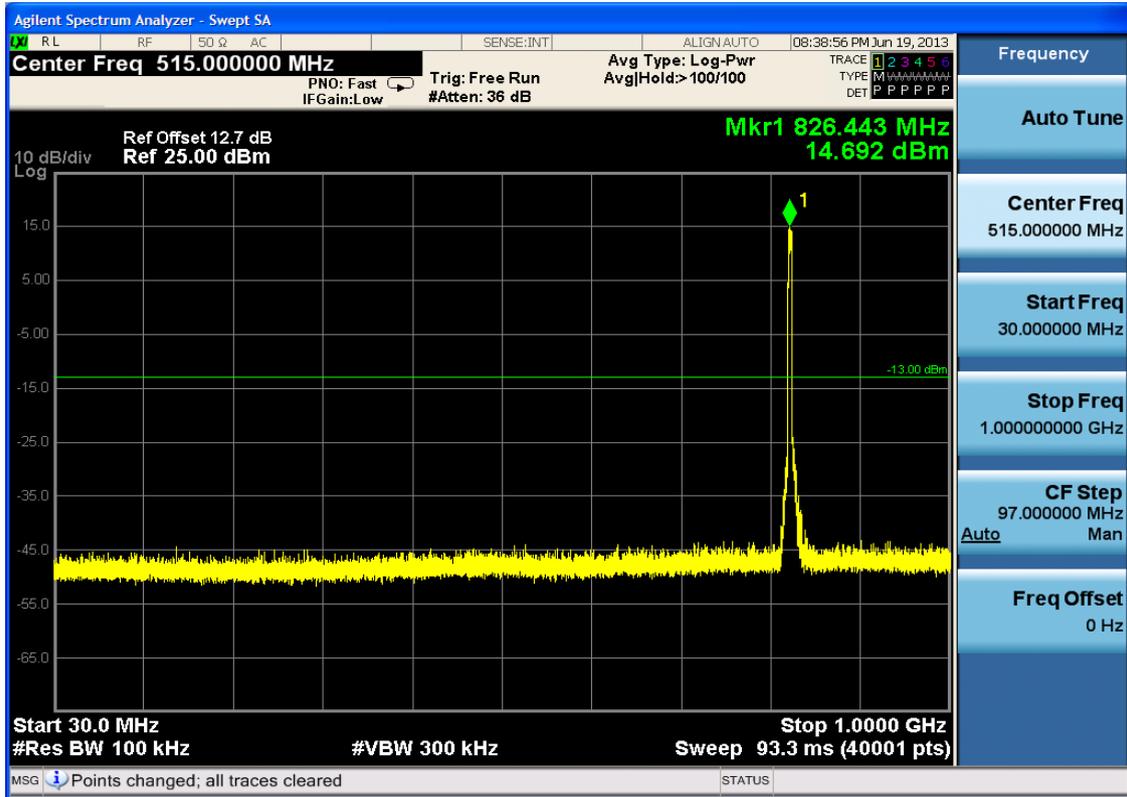
6.2.2 Test Band = WCDMA850

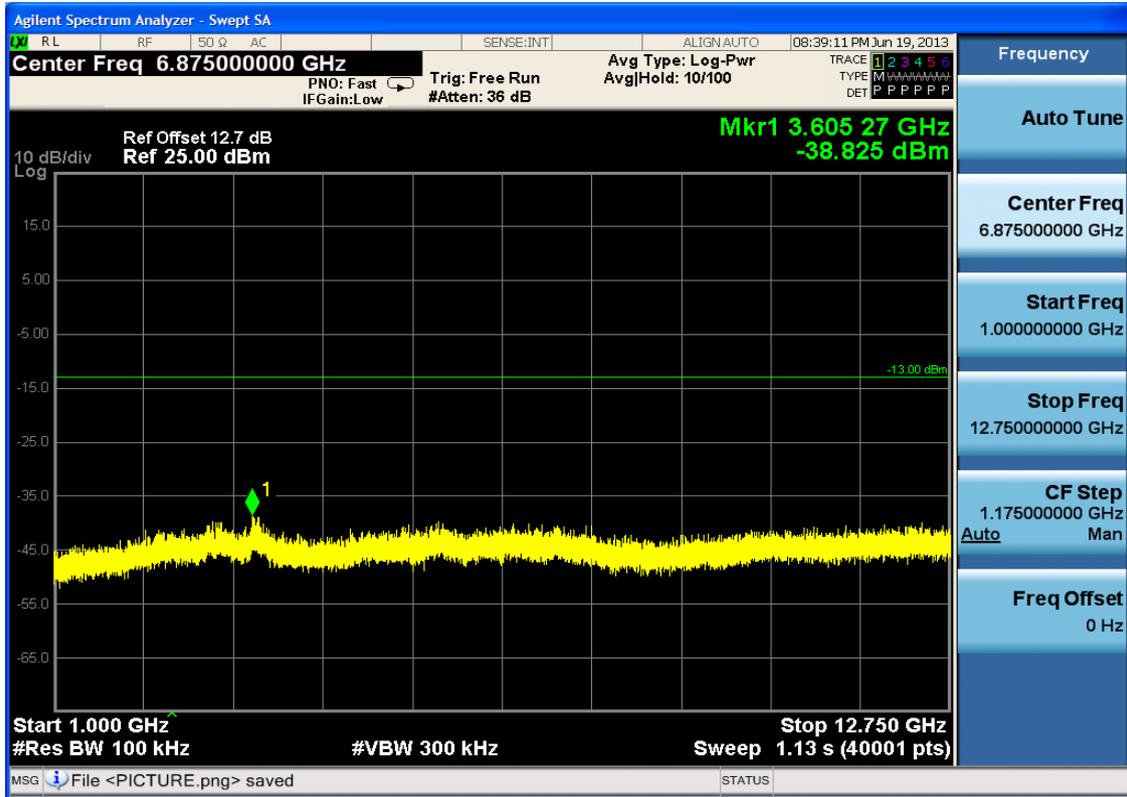
6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH

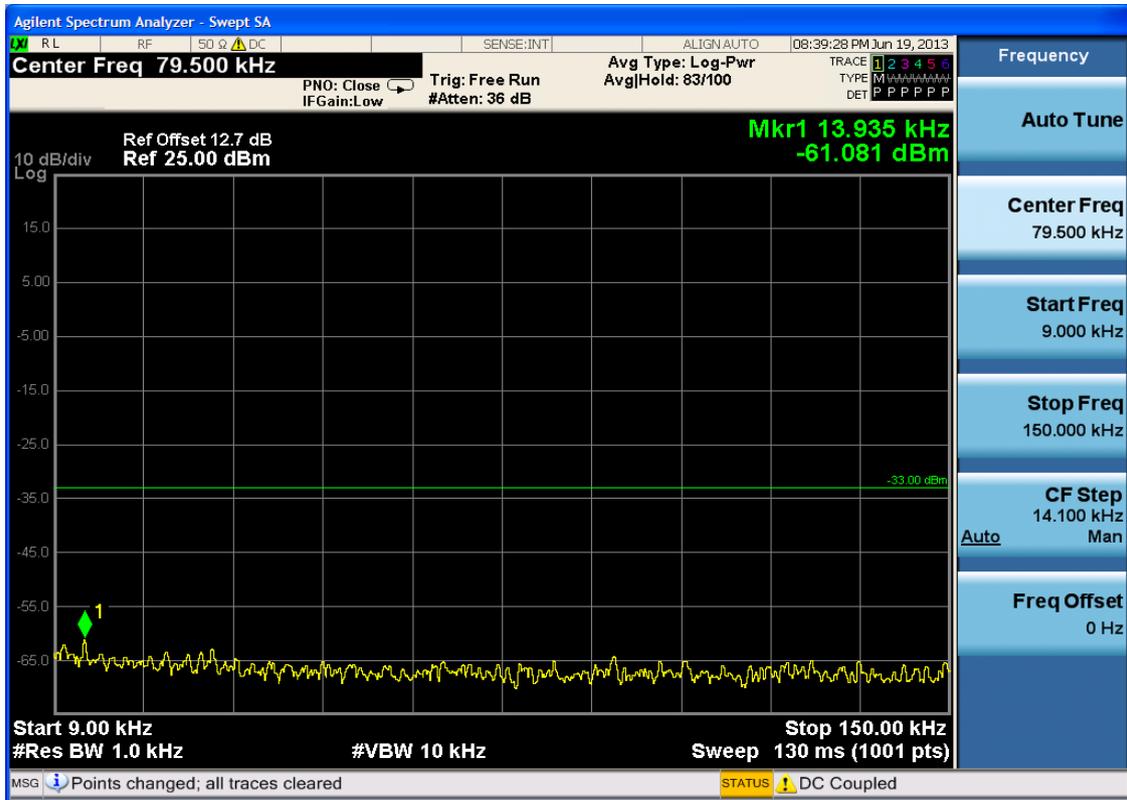


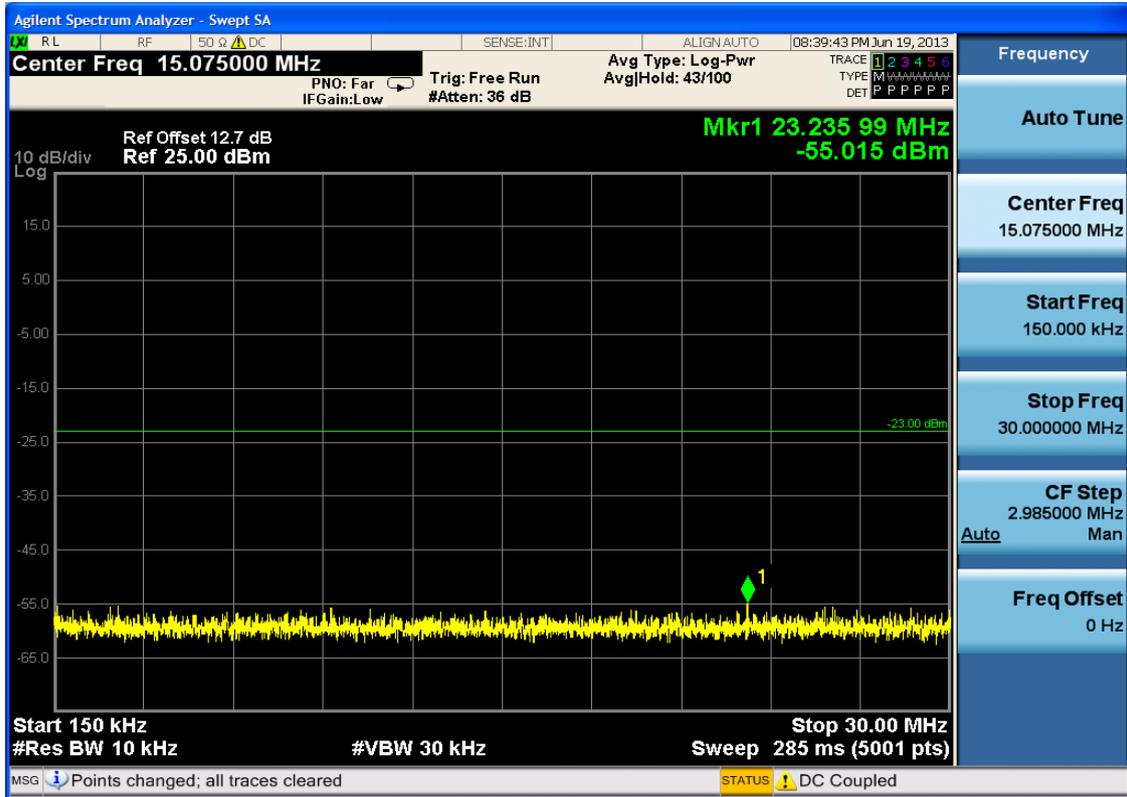


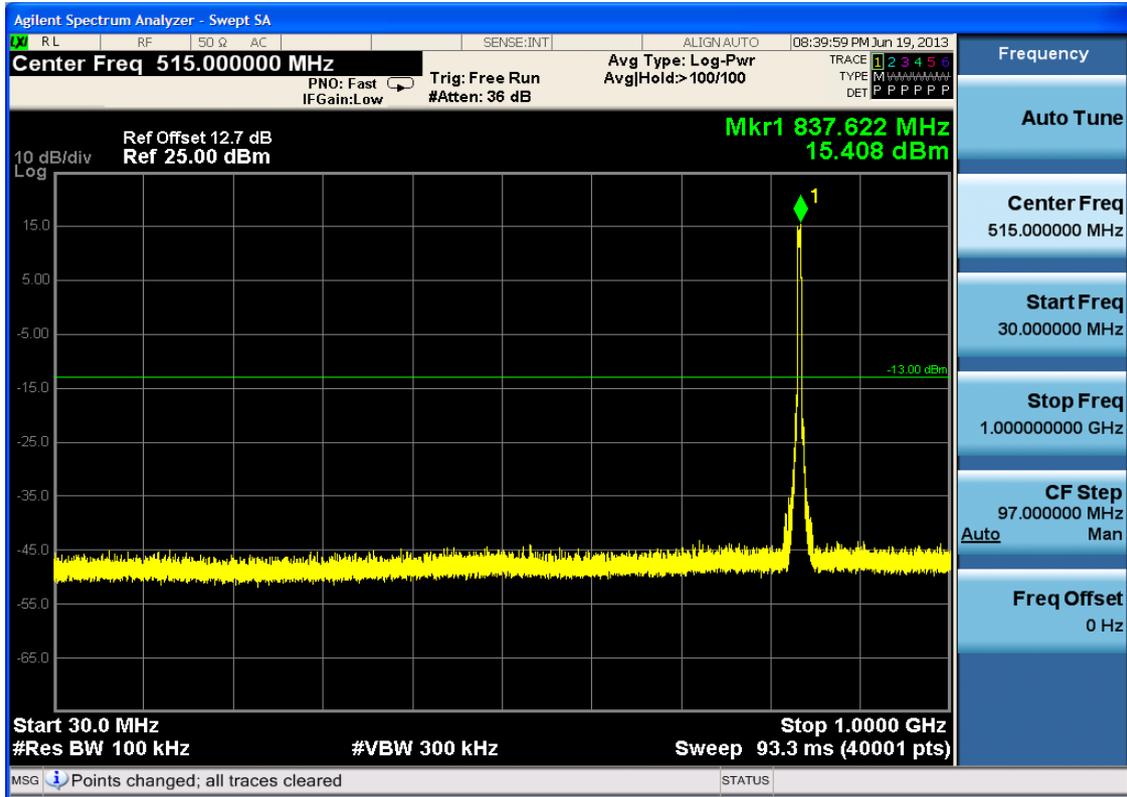


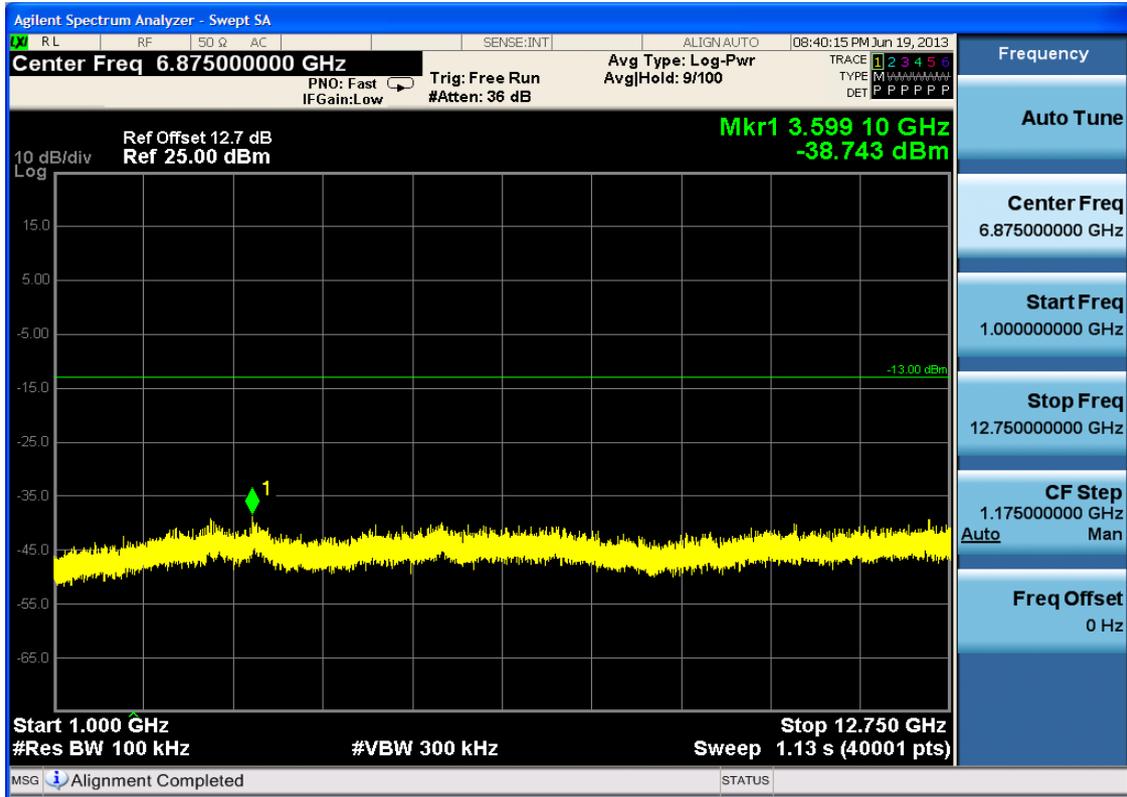


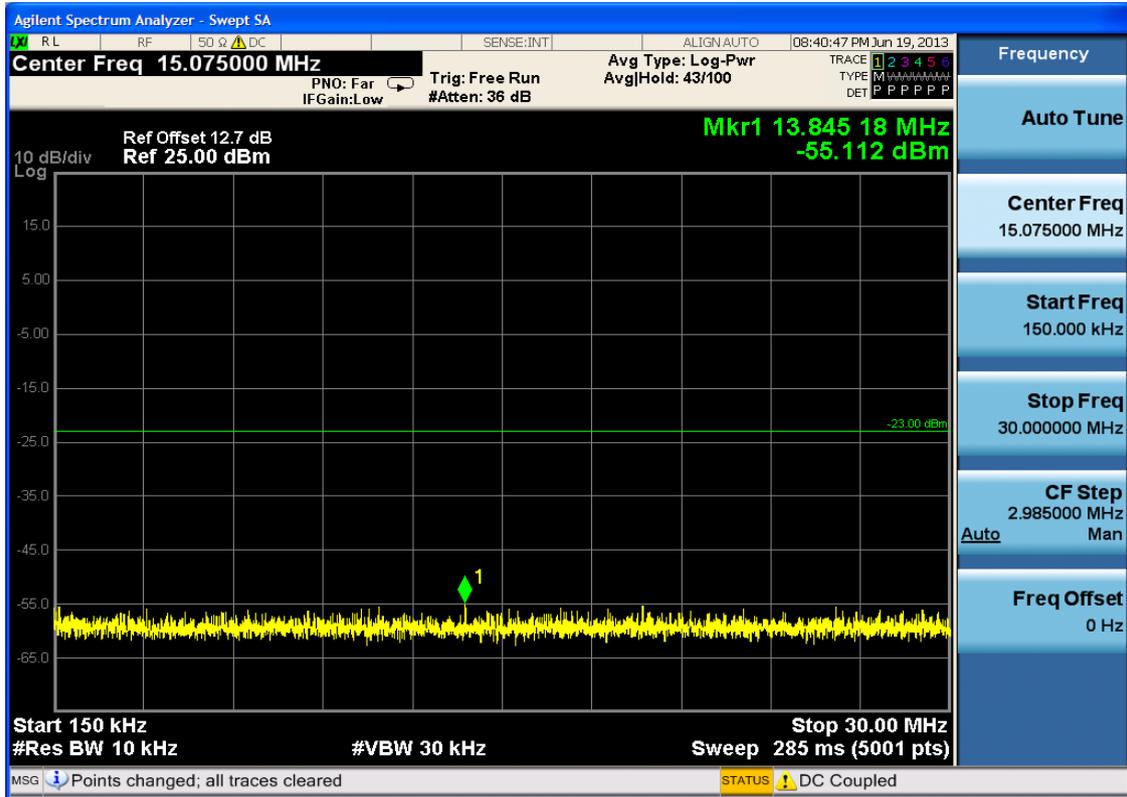
6.2.2.1.2 Test Channel = MCH

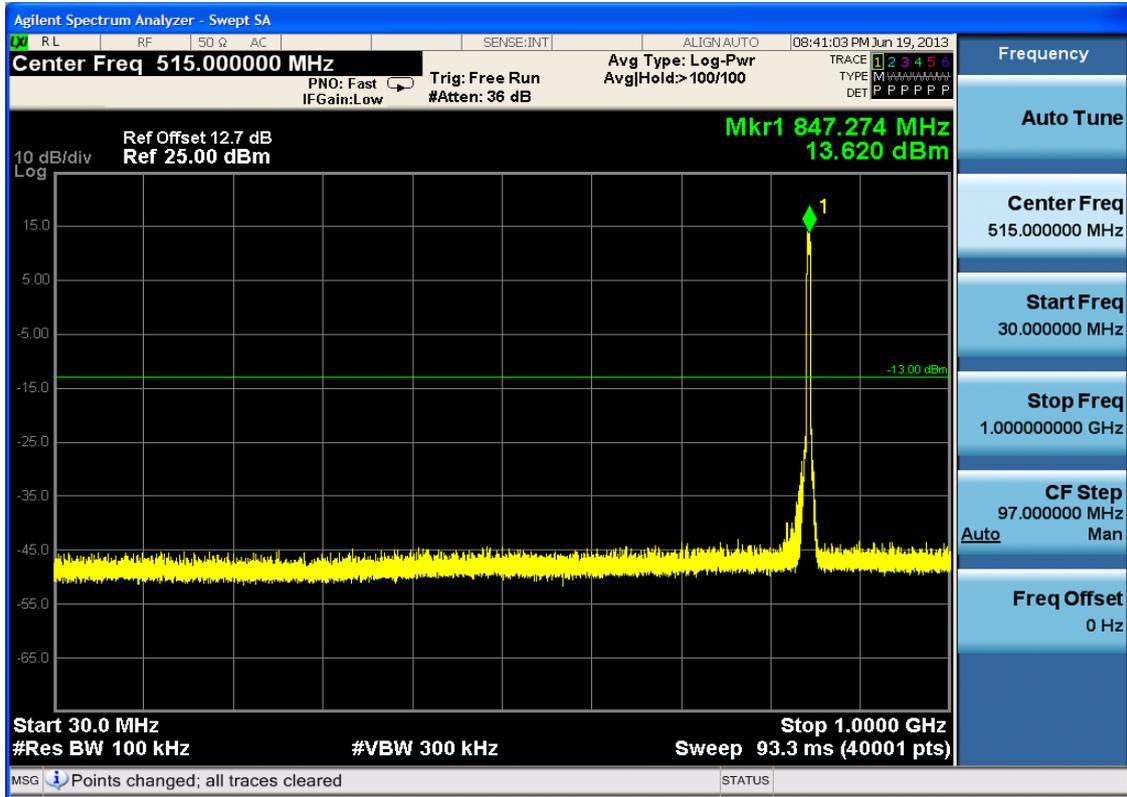


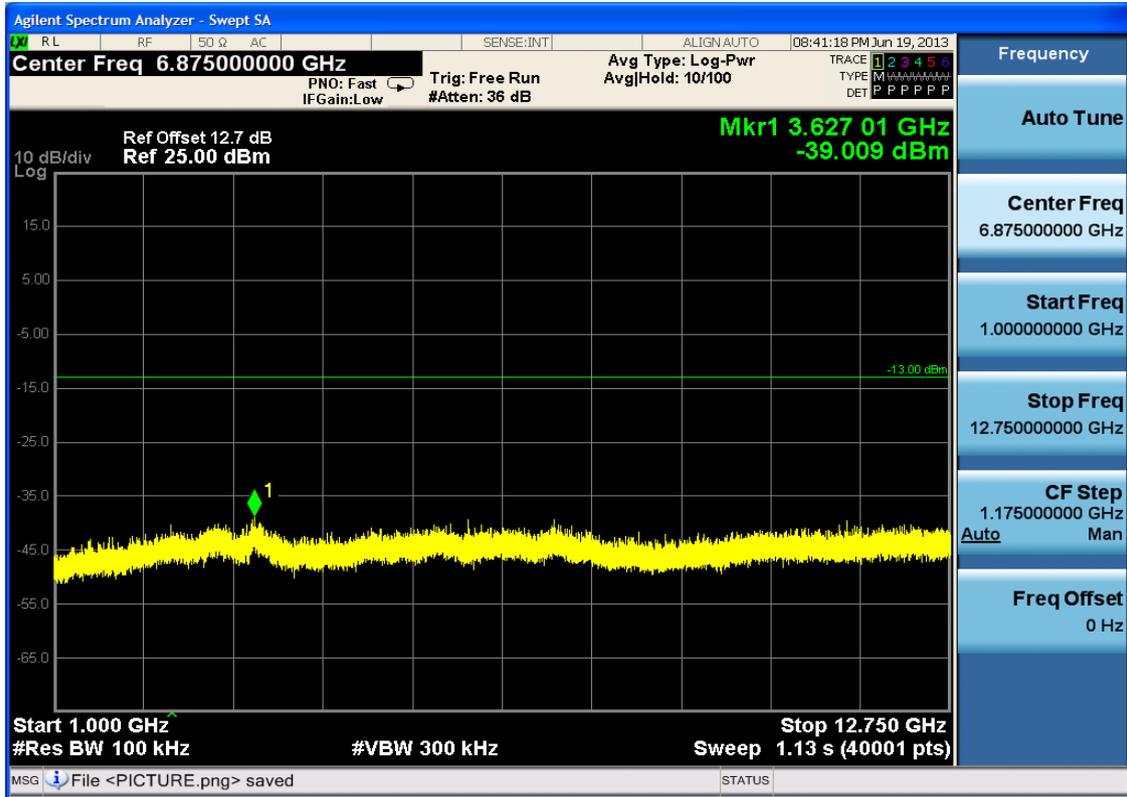












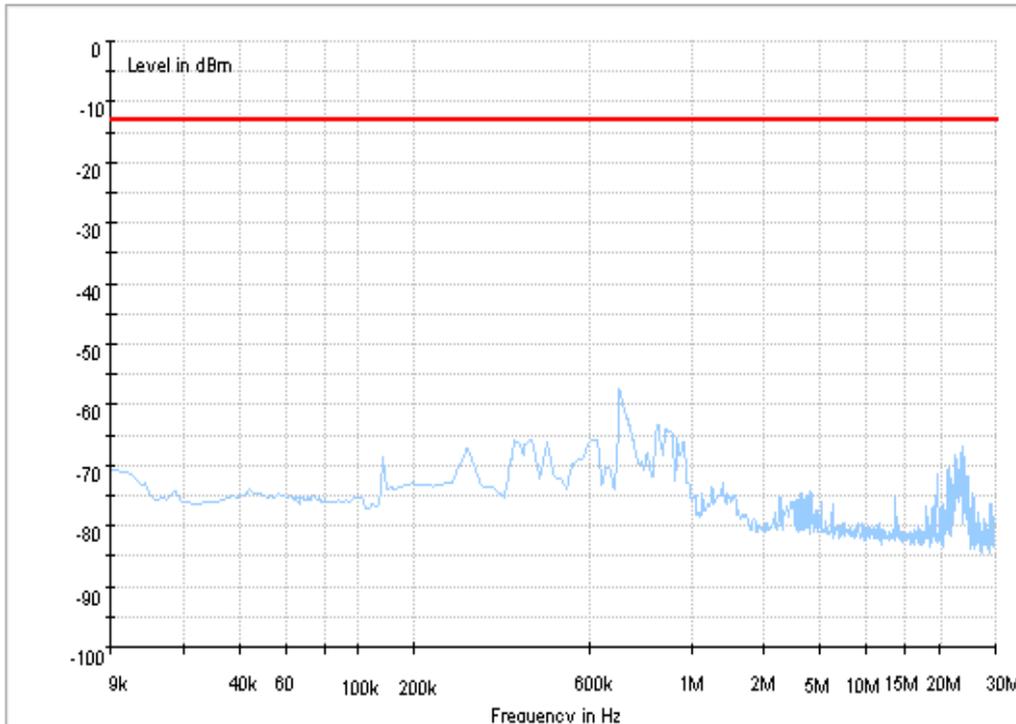
7Appendix_G: Field Strength of Spurious Radiation

Part I - Test Plots

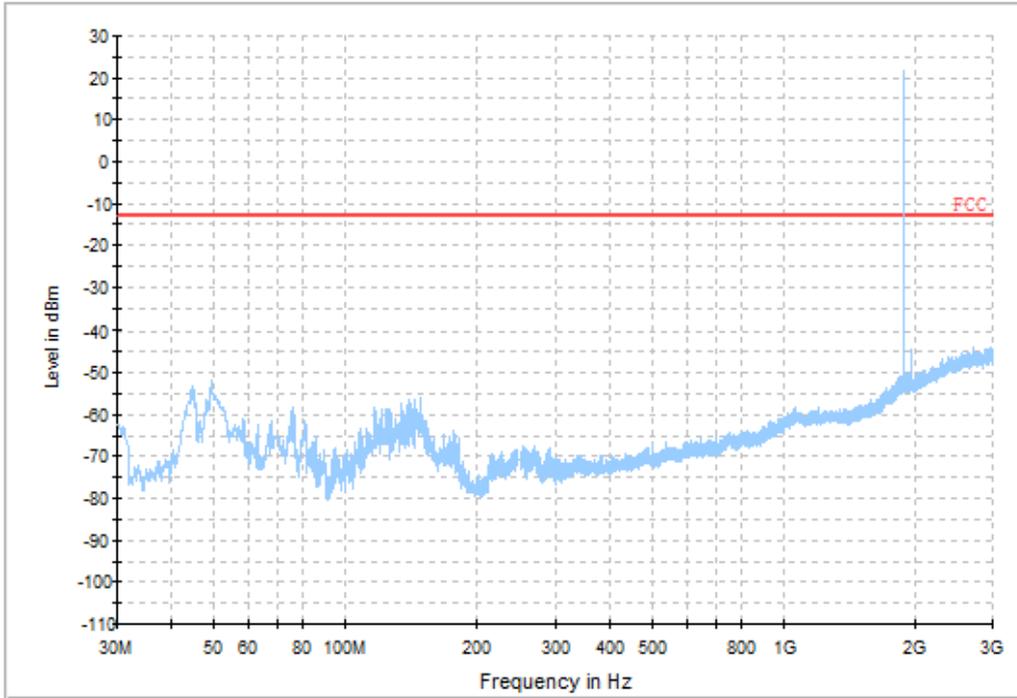
7.1 For GSM

7.1.1 Test Band = GSM1900

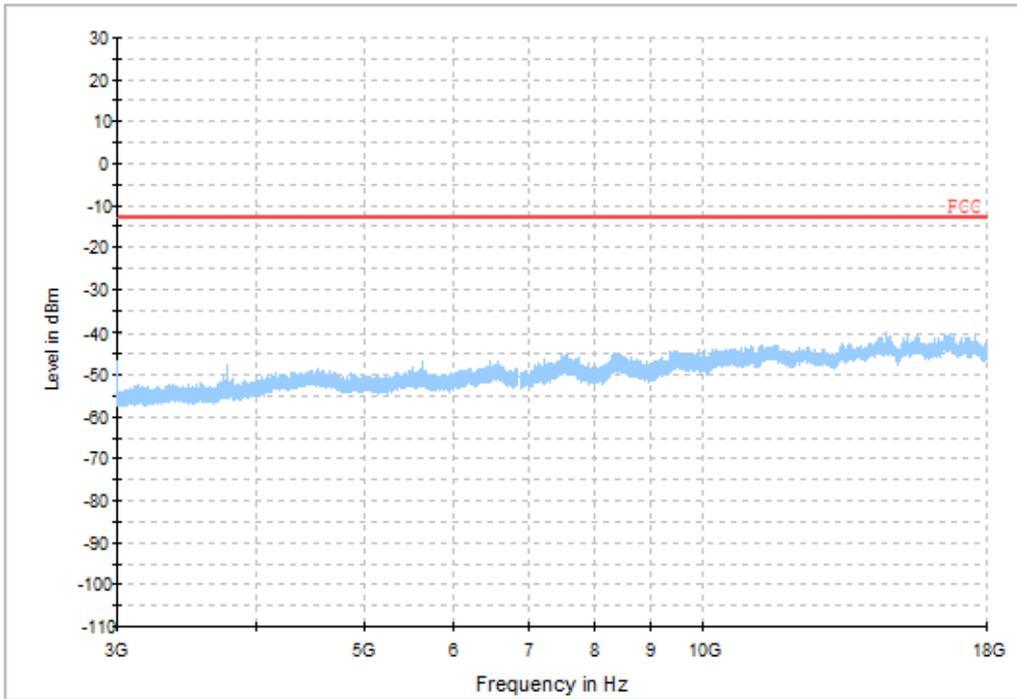
7.1.1.1 Test Mode = GSM/TM1

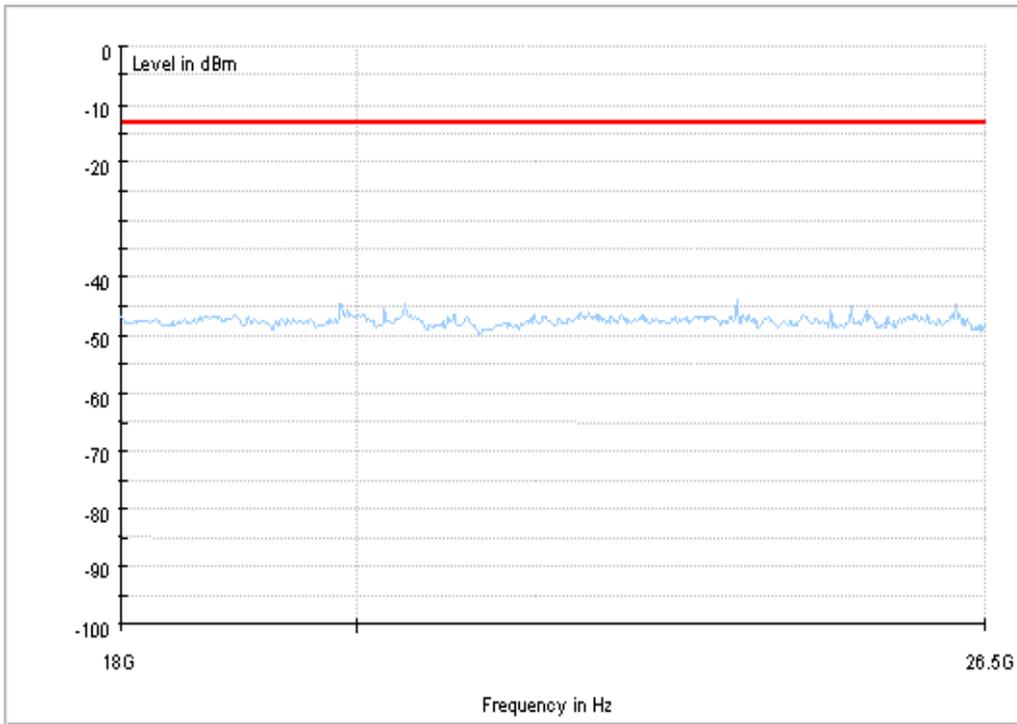


Copy of FCC PART24 GSM1900_L

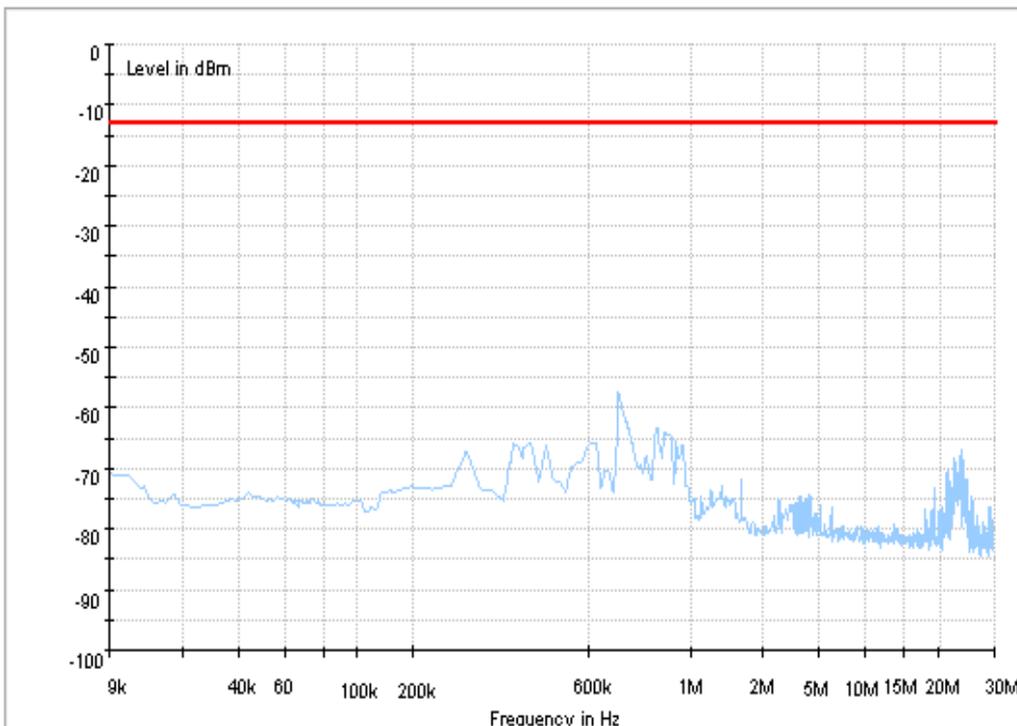


Copy of FCC PART24 GSM1900_H

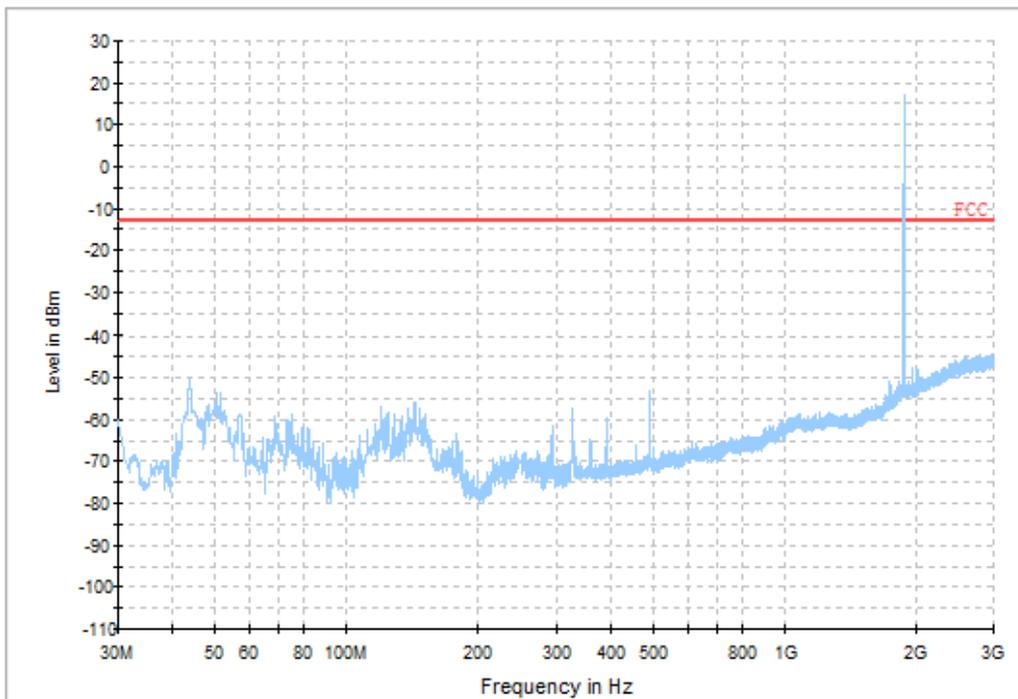




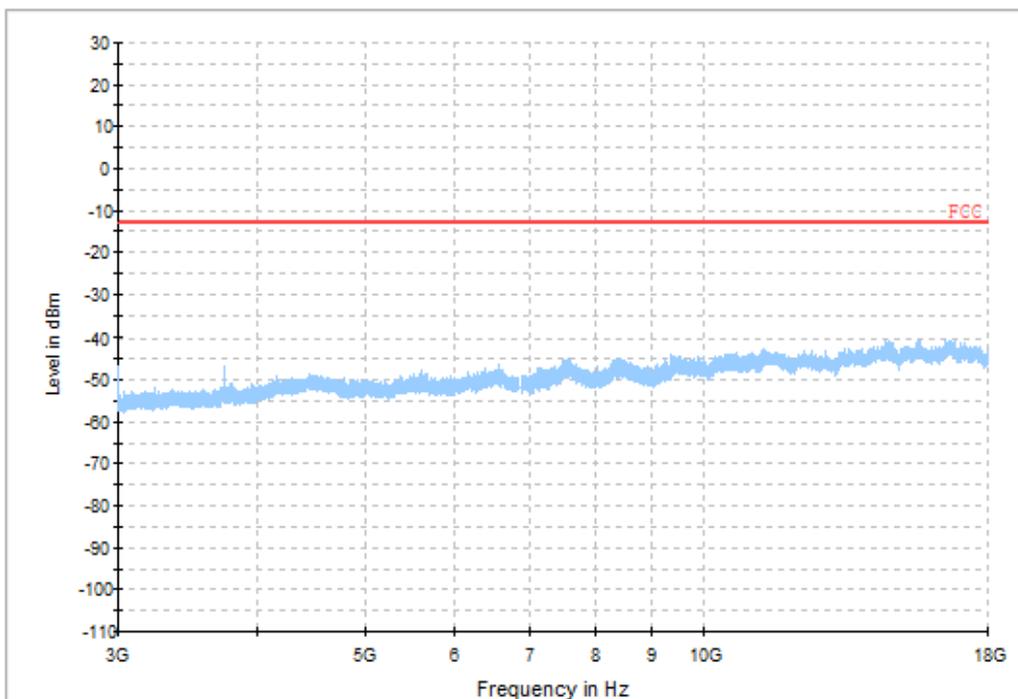
7.1.1.2 Test Mode = GSM/TM2

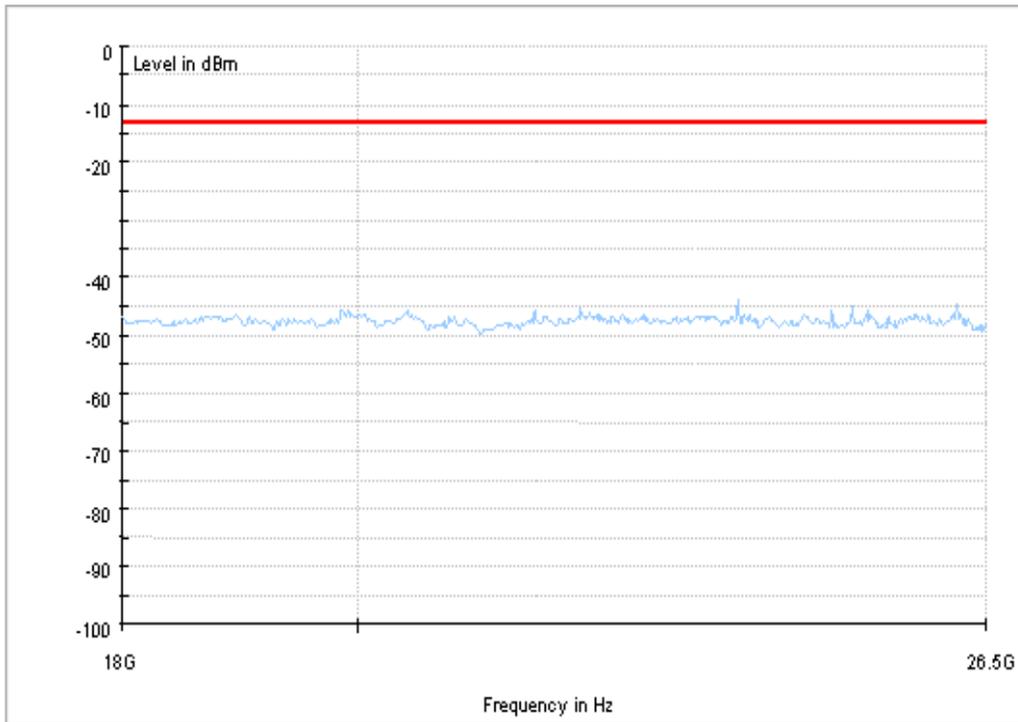


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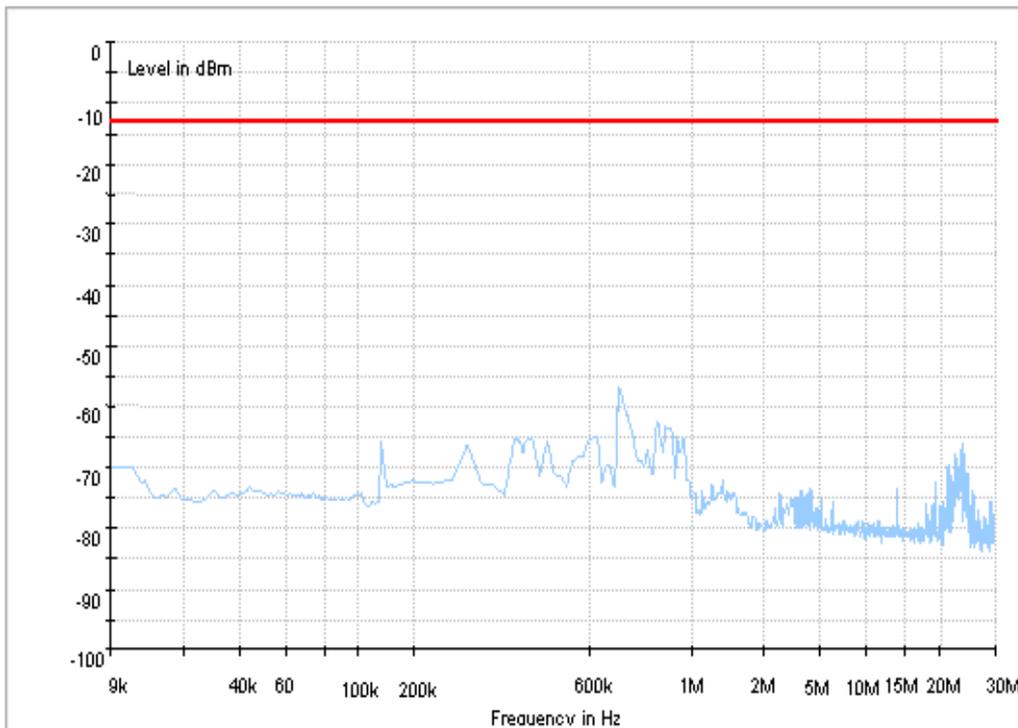
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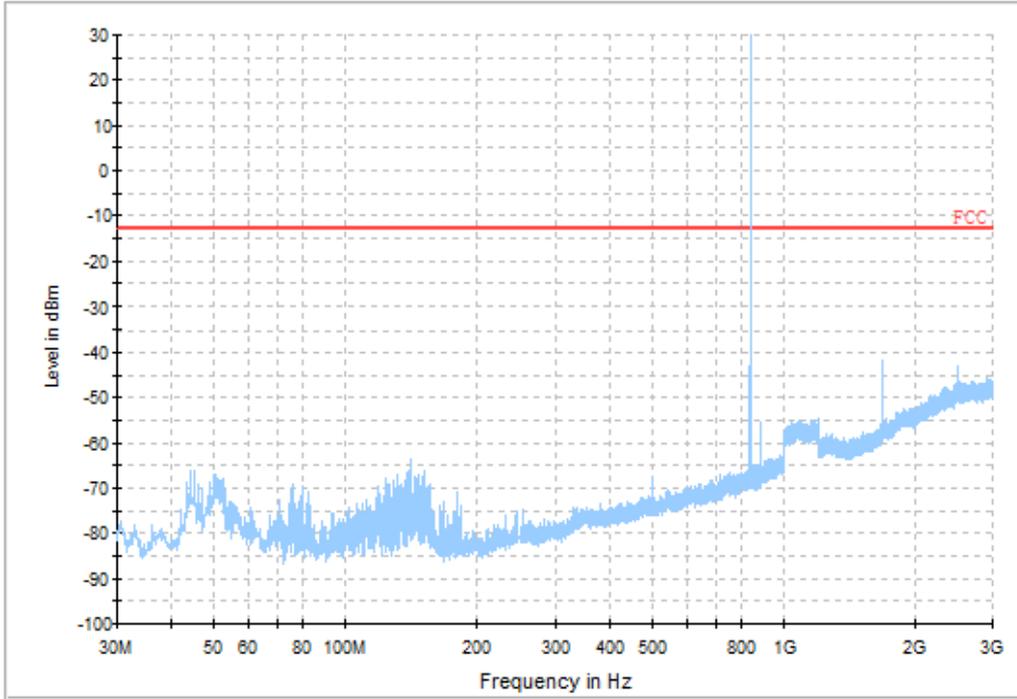


7.1.2 Test Band = GSM850

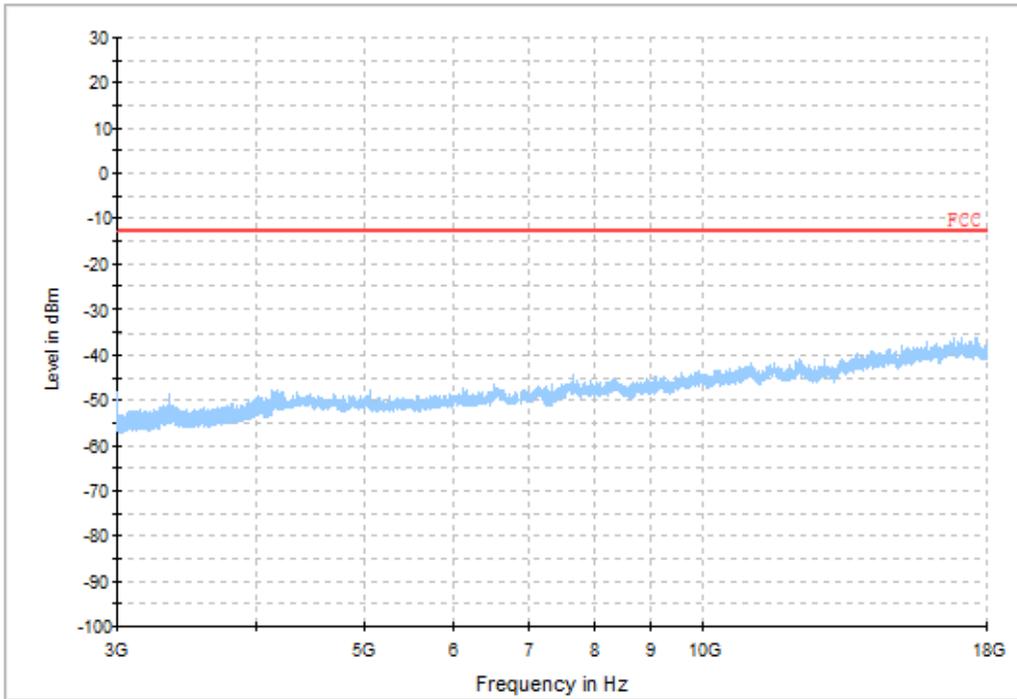
7.1.2.1 Test Mode = GSM/TM1



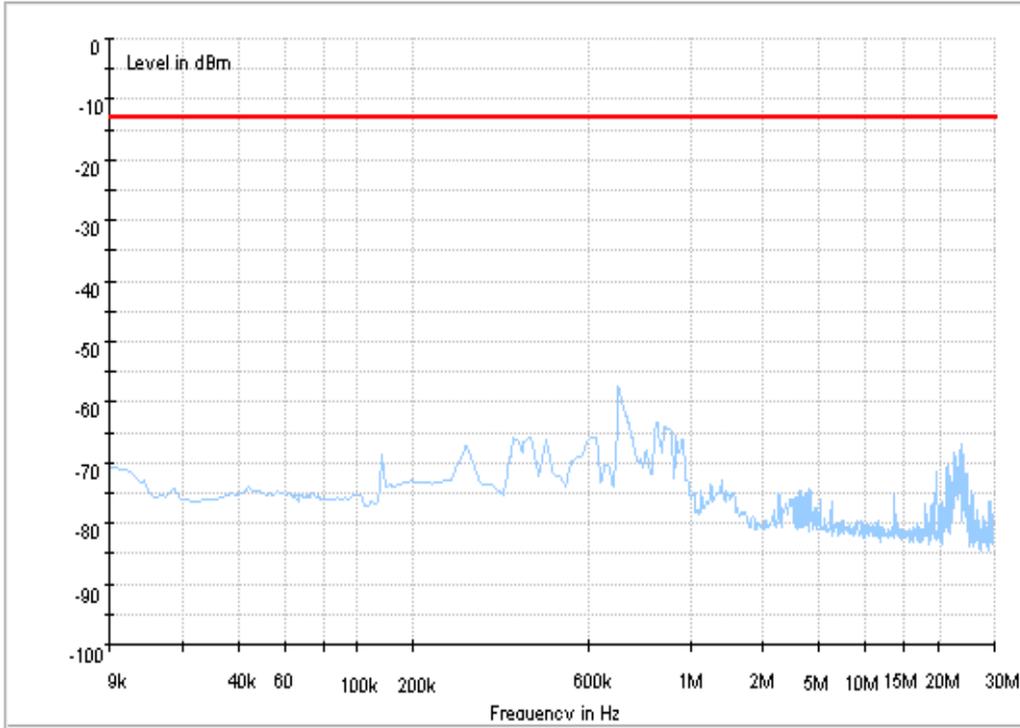
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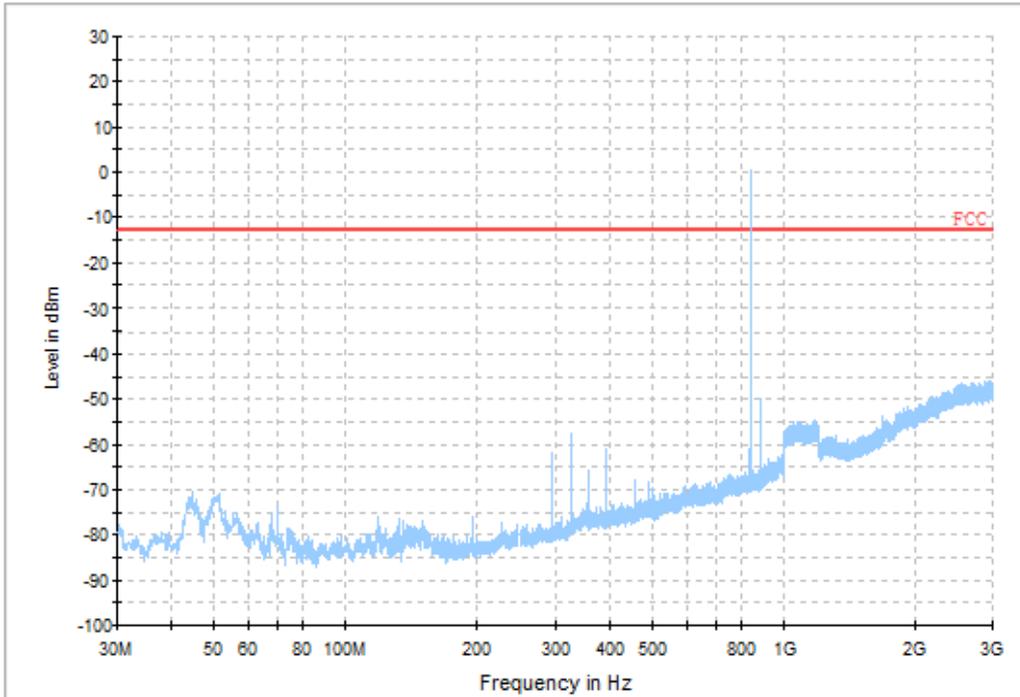
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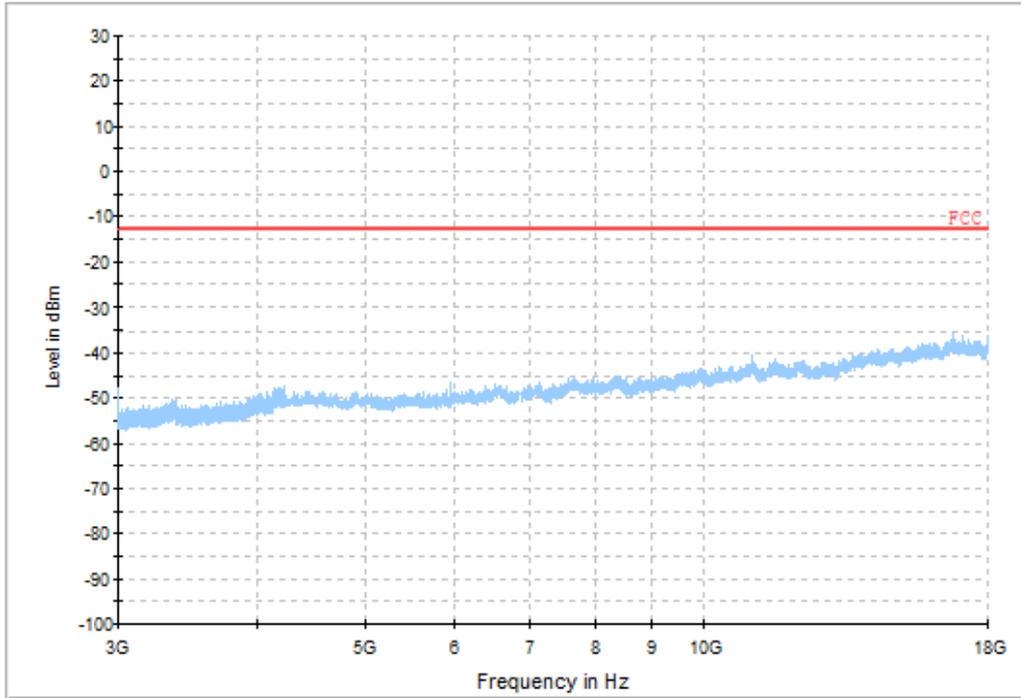
7.1.2.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L



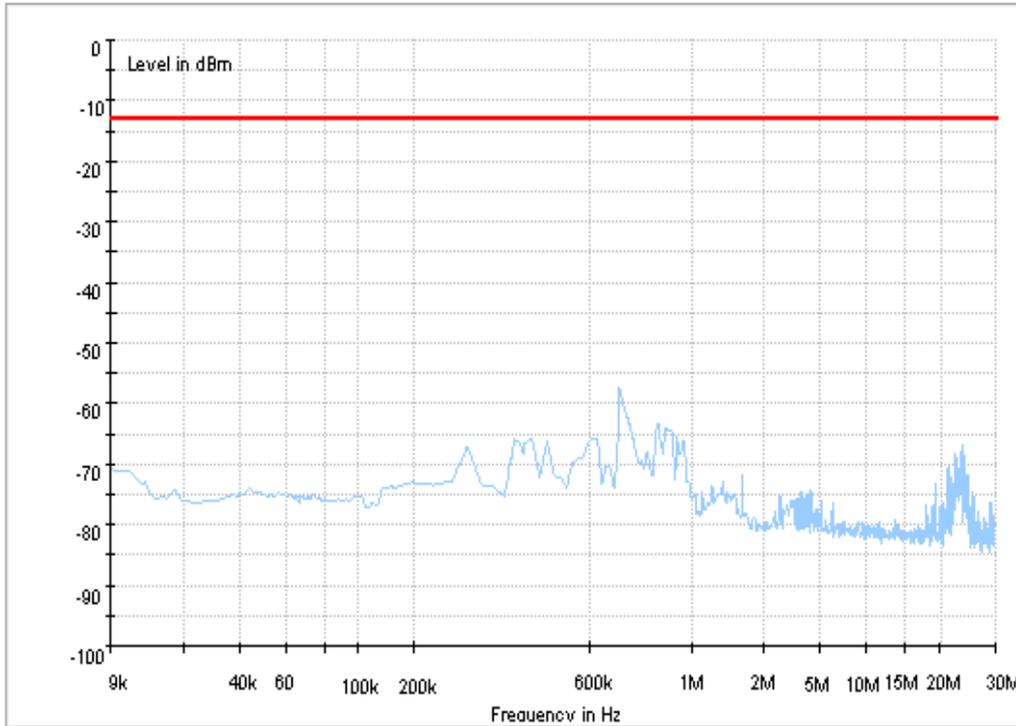
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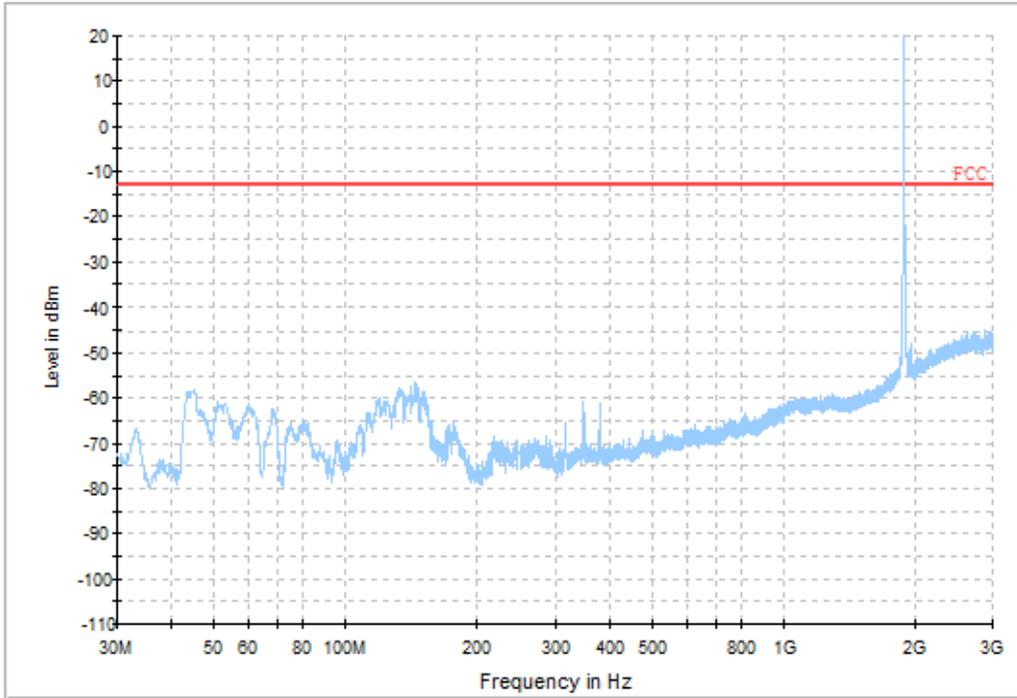
7.2 For UMTS

7.2.1 Test Band = WCDMA1900

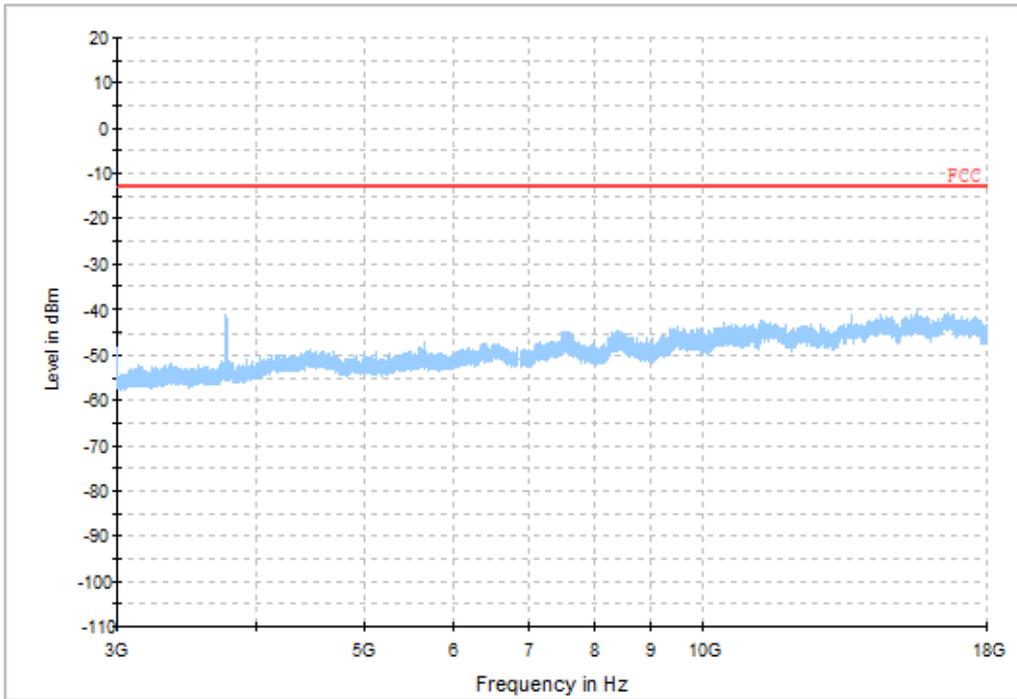
7.2.1.1 Test Mode = UMTS/TM1

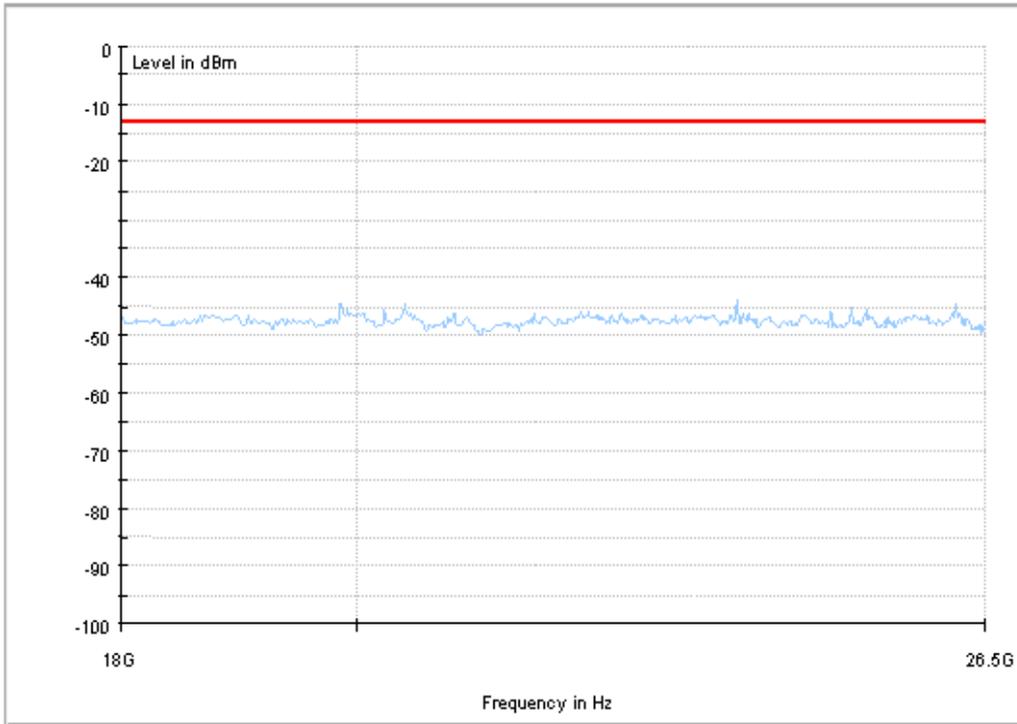


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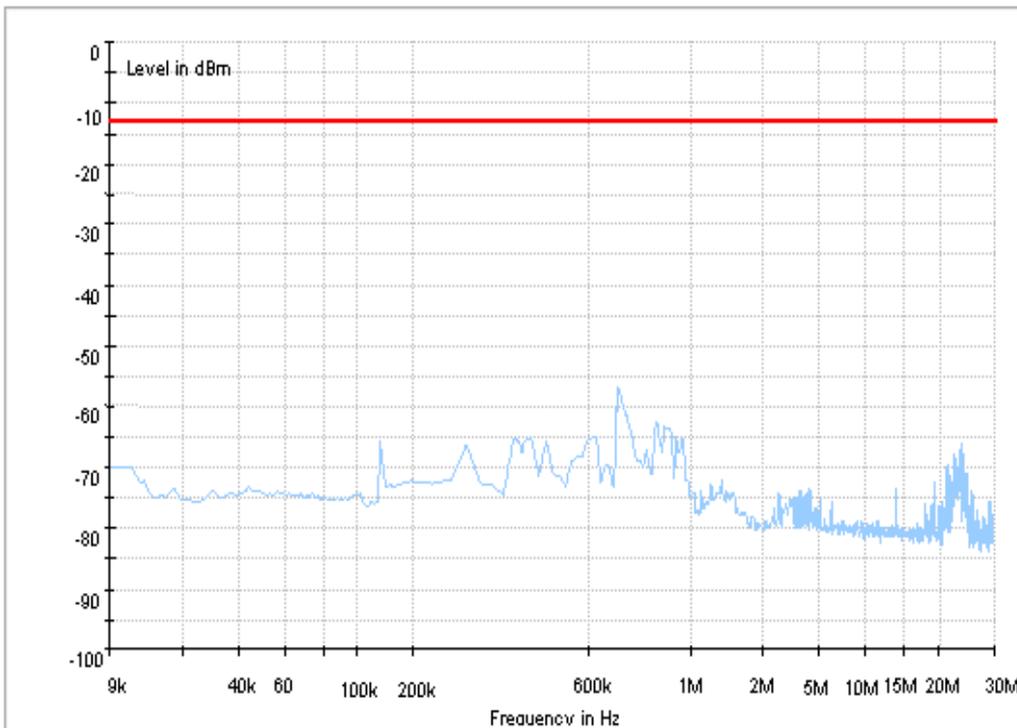
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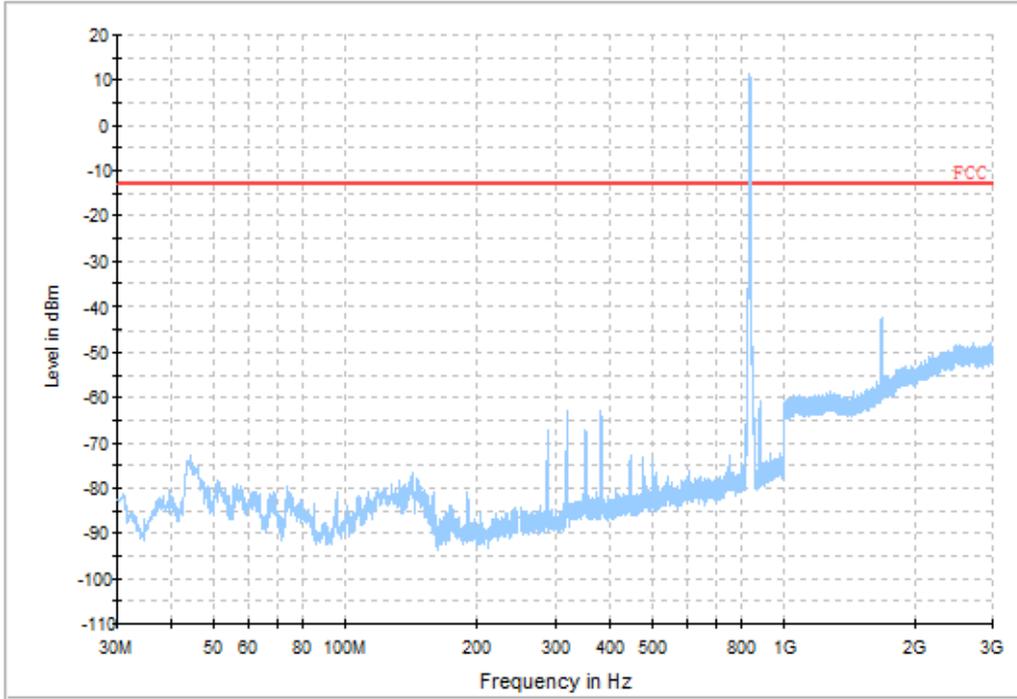


7.2.2 Test Band = WCDMA850

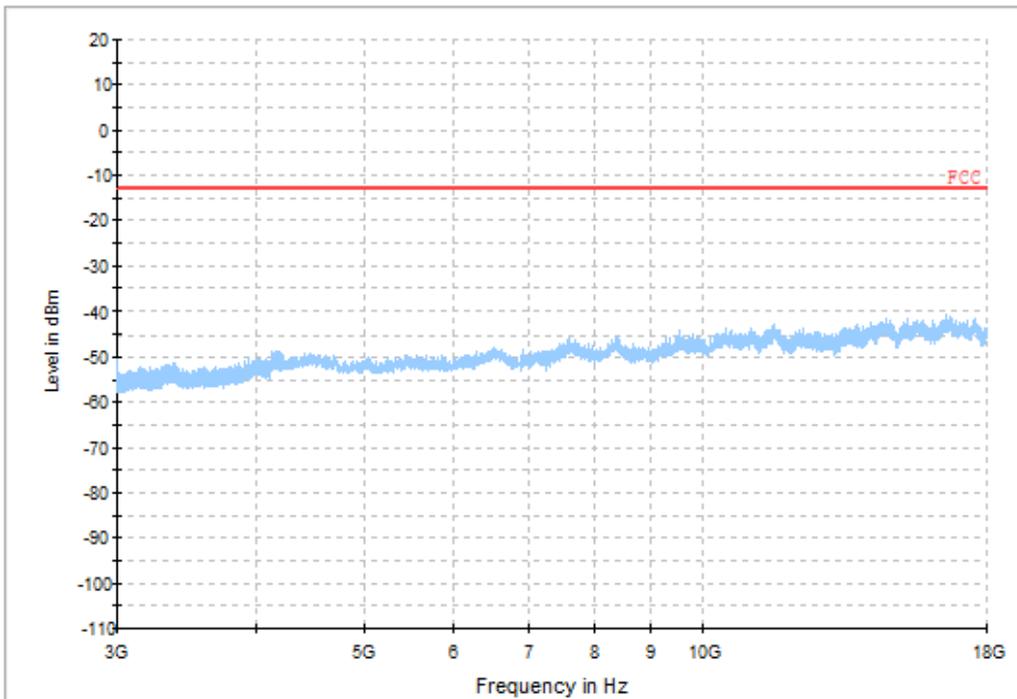
7.2.2.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L



Copy of FCC PART22 WCDMA850_H



8Appendix_H: Frequency Stability

8.1 For GSM

8.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
GSM1900	GSM/TM1	LCH	TN	VL	-17.43	-0.00942	±2.5	PASS
				VN	-32.09	-0.01734	±2.5	PASS
				VH	-34.16	-0.01846	±2.5	PASS
		MCH	TN	VL	-20.34	-0.01082	±2.5	PASS
				VN	-9.17	-0.00488	±2.5	PASS
				VH	-18.79	-0.00999	±2.5	PASS
		HCH	TN	VL	-17.18	-0.009	±2.5	PASS
				VN	-13.11	-0.00686	±2.5	PASS
				VH	-21.31	-0.01116	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-17.34	-0.00937	±2.5	PASS
				VN	-30.06	-0.01625	±2.5	PASS
				VH	-33.03	-0.01785	±2.5	PASS
		MCH	TN	VL	-6.55	-0.00348	±2.5	PASS
				VN	-18.89	-0.01005	±2.5	PASS
				VH	-20.70	-0.01101	±2.5	PASS
		HCH	TN	VL	-11.46	-0.006	±2.5	PASS
				VN	-10.91	-0.00571	±2.5	PASS
				VH	-2.45	-0.00128	±2.5	PASS
GSM850	GSM/TM1	LCH	TN	VL	-10.27	-0.01246	±2.5	PASS
				VN	-8.20	-0.00995	±2.5	PASS
				VH	-4.39	-0.00533	±2.5	PASS
		MCH	TN	VL	-13.37	-0.01598	±2.5	PASS
				VN	-12.01	-0.01436	±2.5	PASS
				VH	-11.11	-0.01328	±2.5	PASS
		HCH	TN	VL	-3.68	-0.00434	±2.5	PASS
				VN	-1.03	-0.00121	±2.5	PASS
				VH	-4.91	-0.00578	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-5.65	-0.00686	±2.5	PASS
				VN	-8.65	-0.0105	±2.5	PASS
				VH	-10.07	-0.01222	±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	-4.13	-0.00494	±2.5	PASS
				VN	-8.07	-0.00965	±2.5	PASS
				VH	-2.74	-0.00328	±2.5	PASS
		HCH	TN	VL	-3.13	-0.00369	±2.5	PASS
				VN	3.33	0.00392	±2.5	PASS
				VH	-6.72	-0.00792	±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
GSM1900	GSM/TM1	LCH	VN	-30	-16.59	-0.00897	±2.5	PASS
				-20	-32.48	-0.01755	±2.5	PASS
				-10	-36.22	-0.01958	±2.5	PASS
				0	-15.50	-0.00838	±2.5	PASS
				10	-22.47	-0.01214	±2.5	PASS
				20	-31.19	-0.01686	±2.5	PASS
				30	-21.44	-0.01159	±2.5	PASS
				40	-31.96	-0.01727	±2.5	PASS
		50	-26.35	-0.01424	±2.5	PASS		
		MCH	VN	-30	-11.24	-0.00598	±2.5	PASS
				-20	-21.89	-0.01164	±2.5	PASS
				-10	-8.01	-0.00426	±2.5	PASS
				0	-13.56	-0.00721	±2.5	PASS
				10	-13.17	-0.00701	±2.5	PASS
				20	-19.50	-0.01037	±2.5	PASS
				30	-21.63	-0.01151	±2.5	PASS
				40	-10.91	-0.0058	±2.5	PASS
		50	-24.34	-0.01295	±2.5	PASS		
		HCH	VN	-30	-21.31	-0.01116	±2.5	PASS
				-20	-19.44	-0.01018	±2.5	PASS
				-10	-14.40	-0.00754	±2.5	PASS
				0	-27.44	-0.01437	±2.5	PASS
				10	-12.72	-0.00666	±2.5	PASS
				20	-6.78	-0.00355	±2.5	PASS
				30	-18.27	-0.00957	±2.5	PASS
				40	-16.34	-0.00856	±2.5	PASS
		50	-14.33	-0.0075	±2.5	PASS		
		GSM/TM2	LCH	VN	-30	-22.63	-0.01223	±2.5
	-20				-19.27	-0.01042	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict		
				-10	-10.94	-0.00591	±2.5	PASS		
				0	-28.06	-0.01517	±2.5	PASS		
				10	-28.38	-0.01534	±2.5	PASS		
				20	-13.27	-0.00717	±2.5	PASS		
				30	-11.85	-0.0064	±2.5	PASS		
				40	-12.91	-0.00698	±2.5	PASS		
				50	-25.51	-0.01379	±2.5	PASS		
		MCH	VN	-30	-4.97	-0.00264	±2.5	PASS		
				-20	-3.16	-0.00168	±2.5	PASS		
				-10	-16.24	-0.00864	±2.5	PASS		
				0	-17.31	-0.00921	±2.5	PASS		
				10	-10.62	-0.00565	±2.5	PASS		
				20	-10.69	-0.00569	±2.5	PASS		
				30	-15.40	-0.00819	±2.5	PASS		
				40	2.91	0.00155	±2.5	PASS		
				50	-16.66	-0.00886	±2.5	PASS		
		HCH	VN	-30	-0.19	-0.0001	±2.5	PASS		
				-20	-14.88	-0.00779	±2.5	PASS		
				-10	-23.05	-0.01207	±2.5	PASS		
				0	0.23	0.00012	±2.5	PASS		
				10	-23.92	-0.01252	±2.5	PASS		
				20	-5.49	-0.00287	±2.5	PASS		
				30	-15.01	-0.00786	±2.5	PASS		
				40	-12.20	-0.00639	±2.5	PASS		
				50	-7.68	-0.00402	±2.5	PASS		
		GSM850	GSM/TM1	LCH	VN	-30	-6.46	-0.00784	±2.5	PASS
						-20	-3.16	-0.00383	±2.5	PASS
-10	-11.62					-0.0141	±2.5	PASS		
0	-11.43					-0.01387	±2.5	PASS		
10	-8.52					-0.01034	±2.5	PASS		
20	-14.40					-0.01747	±2.5	PASS		
30	-12.85					-0.01559	±2.5	PASS		
40	-22.73					-0.02758	±2.5	PASS		
50	-11.49					-0.01394	±2.5	PASS		
MCH	VN			-30	-7.88	-0.00942	±2.5	PASS		
				-20	-5.55	-0.00663	±2.5	PASS		
				-10	-8.59	-0.01027	±2.5	PASS		
				0	-13.56	-0.01621	±2.5	PASS		
				10	-8.72	-0.01042	±2.5	PASS		
				20	-12.27	-0.01467	±2.5	PASS		



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict			
				30	-10.33	-0.01235	±2.5	PASS			
				40	-4.20	-0.00502	±2.5	PASS			
				50	-15.11	-0.01806	±2.5	PASS			
		HCH	VN	-30	-4.26	-0.00502	±2.5	PASS			
				-20	-7.23	-0.00852	±2.5	PASS			
				-10	-4.78	-0.00563	±2.5	PASS			
				0	-8.78	-0.01034	±2.5	PASS			
				10	-4.33	-0.0051	±2.5	PASS			
				20	-5.62	-0.00662	±2.5	PASS			
				30	-4.26	-0.00502	±2.5	PASS			
				40	-13.11	-0.01545	±2.5	PASS			
				50	-8.98	-0.01058	±2.5	PASS			
				GSM/TM2	LCH	VN	-30	-6.07	-0.00736	±2.5	PASS
							-20	-6.65	-0.00807	±2.5	PASS
							-10	-8.88	-0.01077	±2.5	PASS
	0	-7.20	-0.00874				±2.5	PASS			
	10	-3.65	-0.00443				±2.5	PASS			
	20	-10.23	-0.01241				±2.5	PASS			
	30	-11.40	-0.01383				±2.5	PASS			
	40	-7.68	-0.00932				±2.5	PASS			
	50	-6.13	-0.00744		±2.5	PASS					
	MCH	VN	-30		-12.91	-0.01543	±2.5	PASS			
			-20		-10.94	-0.01308	±2.5	PASS			
			-10		-4.62	-0.00552	±2.5	PASS			
			0		-11.69	-0.01397	±2.5	PASS			
			10		-9.07	-0.01084	±2.5	PASS			
			20		-15.66	-0.01872	±2.5	PASS			
			30	-4.13	-0.00494	±2.5	PASS				
	40	-14.21	-0.01699	±2.5	PASS						
	50	-5.52	-0.0066	±2.5	PASS						
	HCH	VN	-30	2.23	0.00263	±2.5	PASS				
			-20	-6.23	-0.00734	±2.5	PASS				
			-10	-4.75	-0.0056	±2.5	PASS				
			0	-2.20	-0.00259	±2.5	PASS				
			10	-1.10	-0.0013	±2.5	PASS				
			20	3.03	0.00357	±2.5	PASS				
			30	-1.78	-0.0021	±2.5	PASS				
			40	-4.58	-0.0054	±2.5	PASS				
	50	2.32	0.00273	±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
WCDMA1900	UMTS/TM1	LCH	TN	VL	1.39	0.00075	±2.5	PASS
				VN	6.23	0.00336	±2.5	PASS
				VH	2.53	0.00137	±2.5	PASS
		MCH	TN	VL	1.75	0.00093	±2.5	PASS
				VN	2.55	0.00136	±2.5	PASS
				VH	3.34	0.00178	±2.5	PASS
		HCH	TN	VL	1.54	0.00081	±2.5	PASS
				VN	-0.31	-0.00016	±2.5	PASS
				VH	-3.19	-0.00167	±2.5	PASS
WCDMA850	UMTS/TM1	LCH	TN	VL	2.26	0.00273	±2.5	PASS
				VN	3.86	0.00467	±2.5	PASS
				VH	-0.81	-0.00098	±2.5	PASS
		MCH	TN	VL	0.06	0.00007	±2.5	PASS
				VN	2.41	0.00288	±2.5	PASS
				VH	1.83	0.00219	±2.5	PASS
		HCH	TN	VL	2.12	0.0025	±2.5	PASS
				VN	1.91	0.00226	±2.5	PASS
				VH	0.18	0.00021	±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
WCDMA1900	UMTS/TM1	LCH	VN	-30	1.37	0.00074	±2.5	PASS
				-20	-0.23	-0.00012	±2.5	PASS
				-10	2.98	0.00161	±2.5	PASS
				0	5.39	0.00291	±2.5	PASS
				10	-7.66	-0.00414	±2.5	PASS
				20	4.81	0.0026	±2.5	PASS
				30	-1.50	-0.00081	±2.5	PASS
				40	-2.32	-0.00125	±2.5	PASS
				50	-1.68	-0.00091	±2.5	PASS
		MCH	VN	-30	2.01	0.00107	±2.5	PASS
				-20	3.19	0.0017	±2.5	PASS
				-10	-2.72	-0.00145	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict						
				0	3.01	0.0016	±2.5	PASS						
				10	5.13	0.00273	±2.5	PASS						
				20	0.72	0.00038	±2.5	PASS						
				30	5.58	0.00297	±2.5	PASS						
				40	2.35	0.00125	±2.5	PASS						
				50	0.66	0.00035	±2.5	PASS						
		HCH	VN			-30	0.63	0.00033	±2.5	PASS				
						-20	1.74	0.00091	±2.5	PASS				
						-10	-2.70	-0.00142	±2.5	PASS				
						0	4.35	0.00228	±2.5	PASS				
						10	6.58	0.00345	±2.5	PASS				
						20	3.22	0.00169	±2.5	PASS				
						30	2.50	0.00131	±2.5	PASS				
						40	6.45	0.00338	±2.5	PASS				
						50	-1.45	-0.00076	±2.5	PASS				
						WCDMA850	UMTS/TM1	LCH	VN	-30	-0.27	-0.00033	±2.5	PASS
										-20	1.72	0.00208	±2.5	PASS
										-10	2.18	0.00264	±2.5	PASS
0	1.75	0.00212	±2.5	PASS										
10	0.35	0.00042	±2.5	PASS										
20	1.24	0.0015	±2.5	PASS										
30	-0.32	-0.00039	±2.5	PASS										
40	2.96	0.00358	±2.5	PASS										
50	1.14	0.00138	±2.5	PASS										
MCH	VN			-30	1.92			0.0023	±2.5	PASS				
				-20	2.44			0.00292	±2.5	PASS				
				-10	0.06			0.00007	±2.5	PASS				
				0	4.29			0.00513	±2.5	PASS				
				10	-0.79			-0.00094	±2.5	PASS				
				20	0.32			0.00038	±2.5	PASS				
				30	1.77			0.00212	±2.5	PASS				
				40	1.51			0.00181	±2.5	PASS				
				50	-0.55			-0.00066	±2.5	PASS				
HCH	VN			-30	6.59			0.00778	±2.5	PASS				
				-20	-0.17			-0.0002	±2.5	PASS				
				-10	1.62			0.00191	±2.5	PASS				
				0	2.06			0.00243	±2.5	PASS				
				10	-0.29			-0.00034	±2.5	PASS				
				20	-0.14			-0.00017	±2.5	PASS				

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				30	4.30	0.00508	±2.5	PASS
				40	2.37	0.0028	±2.5	PASS
				50	-0.50	-0.00059	±2.5	PASS

END