



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	32.54	33.48	38.5	PASS
		MCH	32.38	33.26	38.5	PASS
		HCH	32.26	33.22	38.5	PASS
	GSM/TM2	LCH	26.3	27.29	38.5	PASS
		MCH	26.21	27.23	38.5	PASS
		HCH	26.11	27.14	38.5	PASS
WCDMA850	UMTS/TM1	LCH	22.77	23.66	38.5	PASS
		MCH	22.42	23.38	38.5	PASS
		HCH	22.21	23.15	38.5	PASS
Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	29.11	30.12	33	PASS
		MCH	29.12	30.08	33	PASS
		HCH	29.19	30.13	33	PASS
	GSM/TM2	LCH	24.28	25.22	33	PASS
		MCH	24.33	25.28	33	PASS
		HCH	24.46	25.34	33	PASS
WCDMA1900	UMTS/TM1	LCH	21.74	22.69	33	PASS
		MCH	21.69	22.64	33	PASS
		HCH	21.36	22.33	33	PASS

Note 1:

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,

$$ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]$$

$$EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]$$

b, SGP=Signal Generator Level

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

Detector: RMS



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	0.11	13	PASS
		HCH	0.11	13	PASS
	GSM/TM2	LCH	3.02	13	PASS
		MCH	3.14	13	PASS
		HCH	3.15	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA1900	UMTS/TM1	LCH	3.51	13	PASS
		MCH	3.58	13	PASS
		HCH	3.41	13	PASS

3Appendix_C: Modulation Characteristics

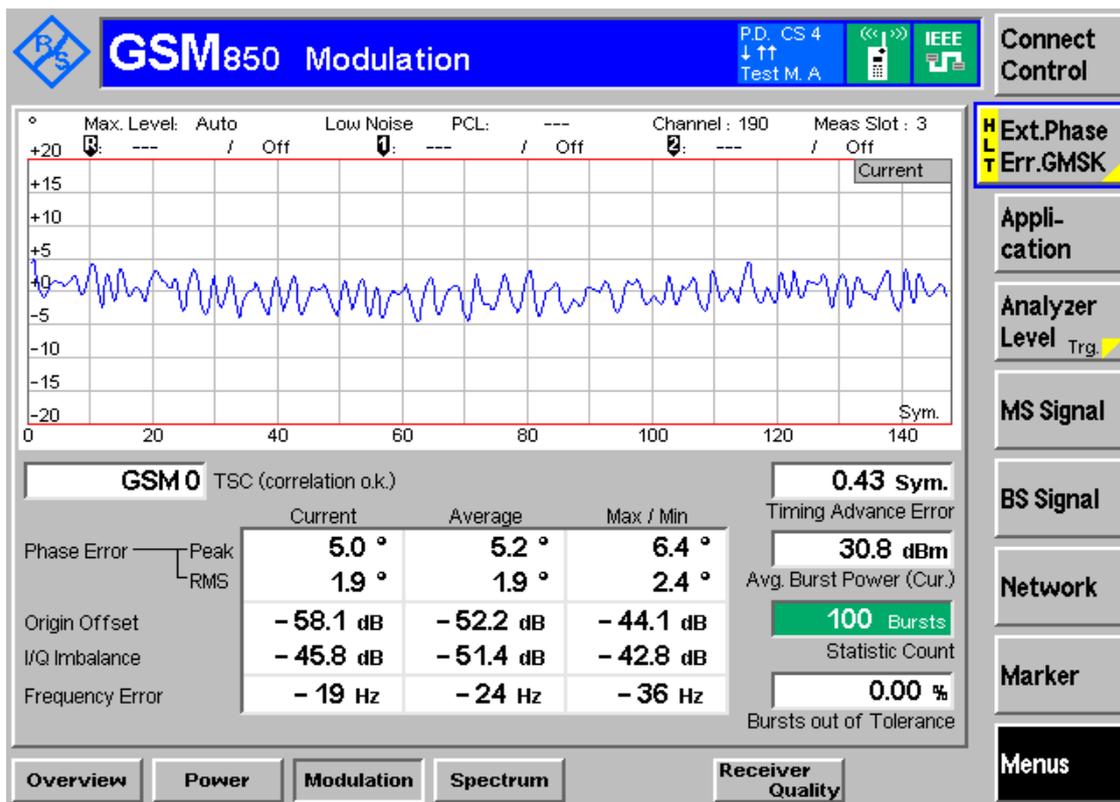
Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM850

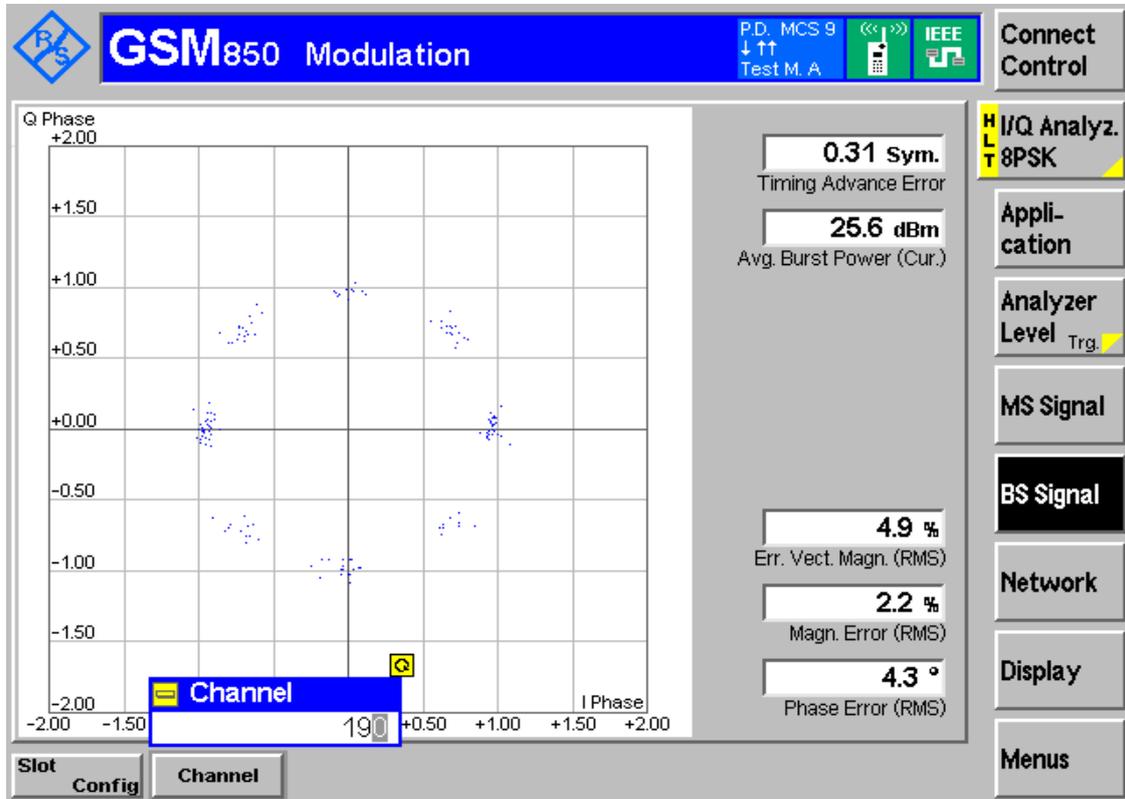
3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = GSM/TM2

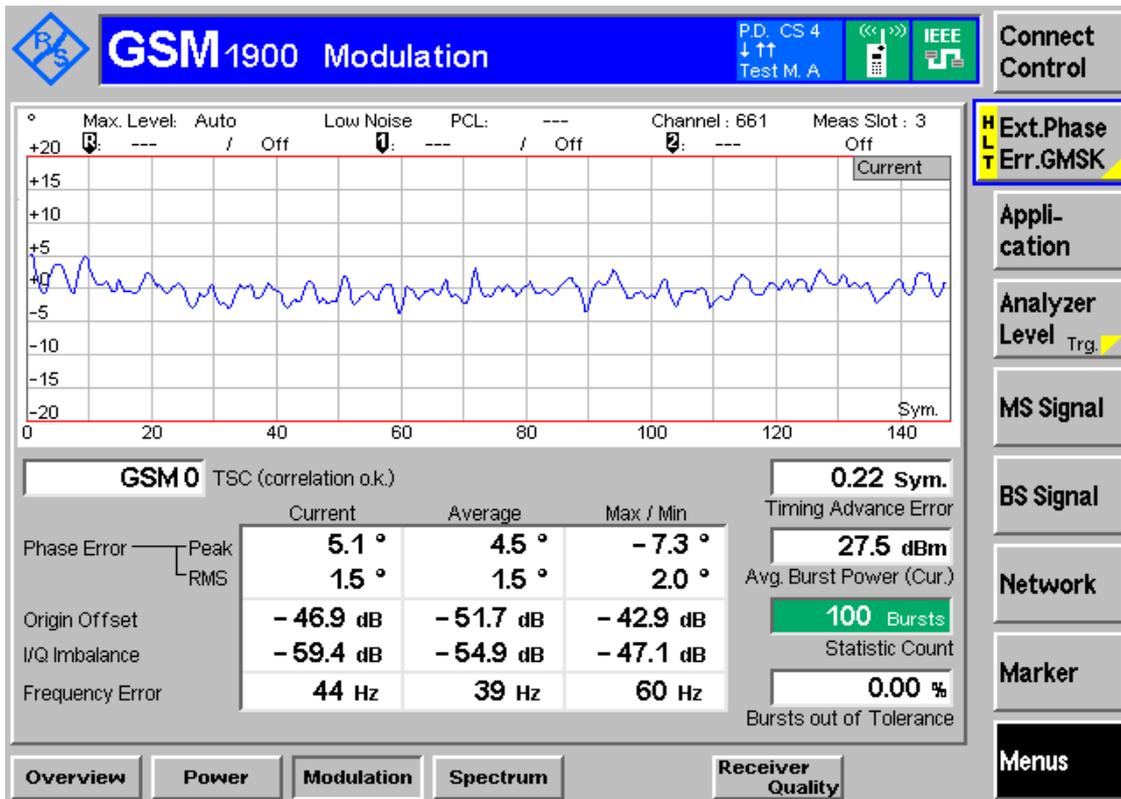
3.1.1.2.1 Test Channel = MCH



3.1.2 Test Band = GSM1900

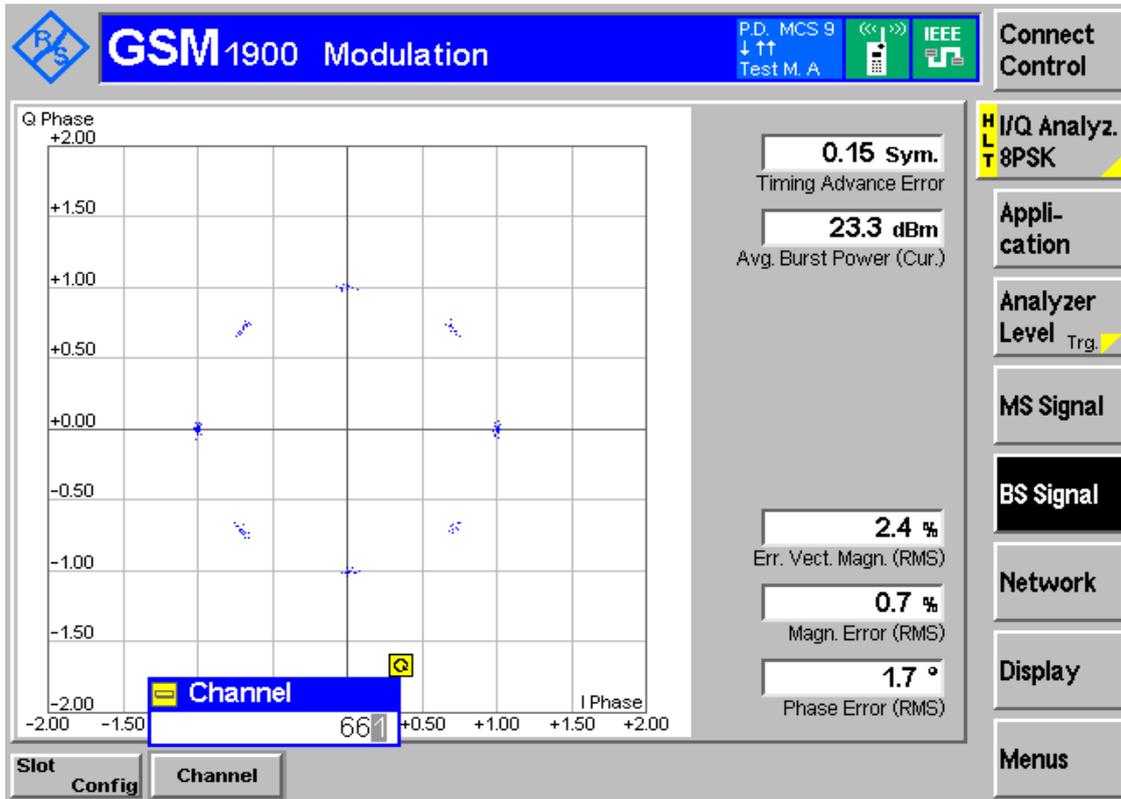
3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH

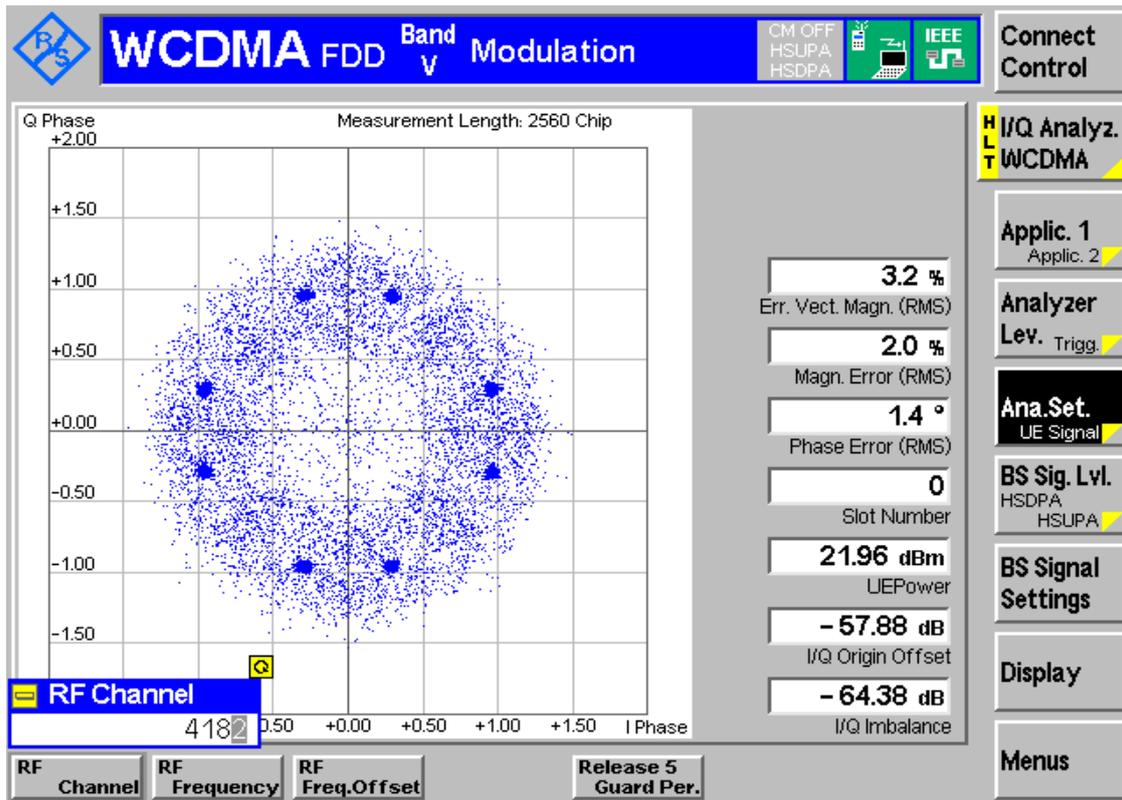


3.2 For UMTS

3.2.1 Test Band = WCDMA850

3.2.1.1 Test Mode = UMTS/TM1

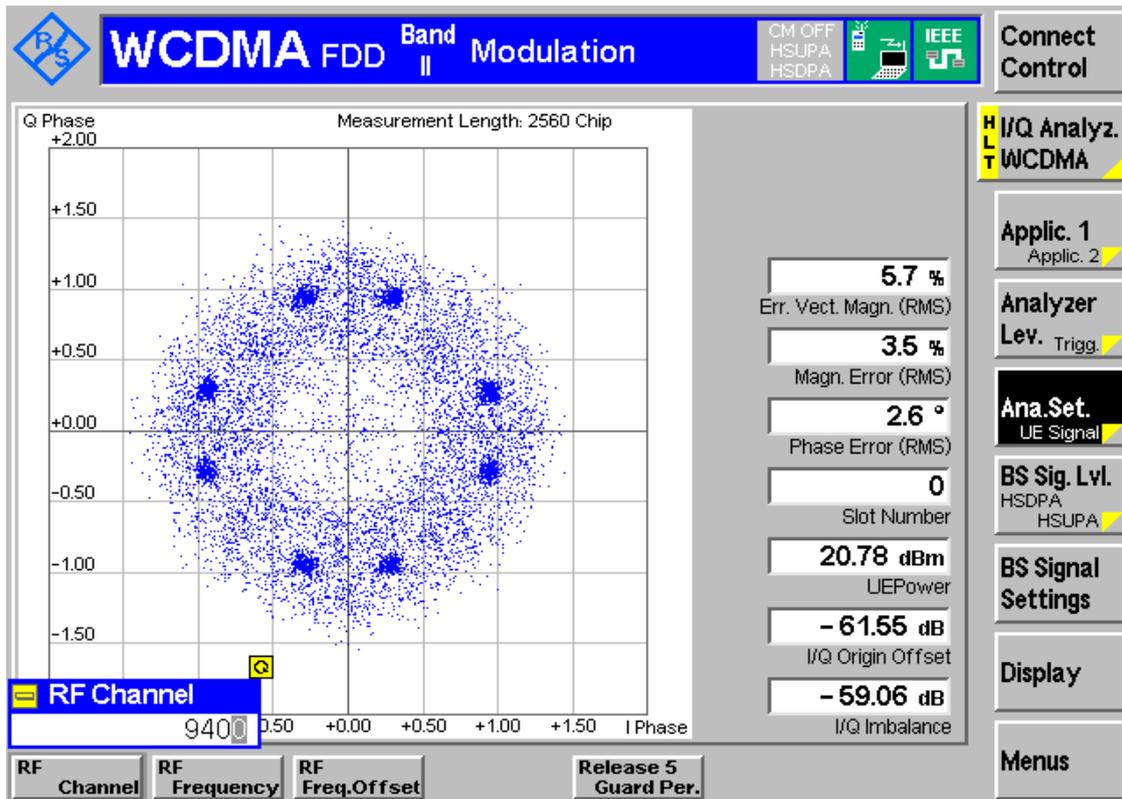
3.2.1.1.1 Test Channel = MCH



3.2.2 Test Band = WCDMA1900

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
GSM850	GSM/TM1	LCH	239.61	313.70	Pass
		MCH	238.98	306.97	Pass
		HCH	239.71	305.18	Pass
	GSM/TM2	LCH	233.35	289.84	Pass
		MCH	231.37	297.52	Pass
		HCH	237.73	304.39	Pass
GSM1900	GSM/TM1	LCH	246.49	316.43	Pass
		MCH	243.78	315.71	Pass
		HCH	242.45	314.31	Pass
	GSM/TM2	LCH	234.05	294.20	Pass
		MCH	240.97	313.18	Pass
		HCH	244.14	322.84	Pass
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA850	UMTS/TM1	LCH	4.17	4.68	Pass
		MCH	4.17	4.68	Pass
		HCH	4.17	4.68	Pass
WCDMA1900	UMTS/TM1	LCH	4.16	4.67	Pass
		MCH	4.15	4.73	Pass
		HCH	4.17	4.68	Pass

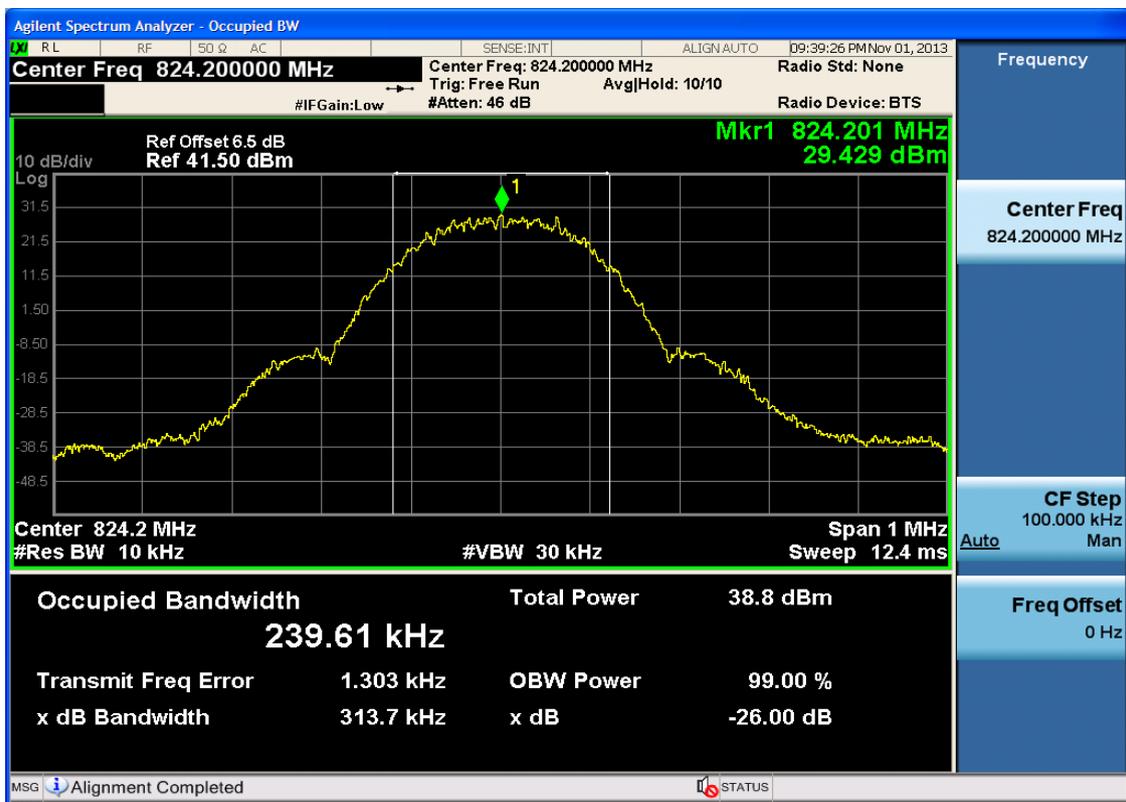
Part II - Test Plots

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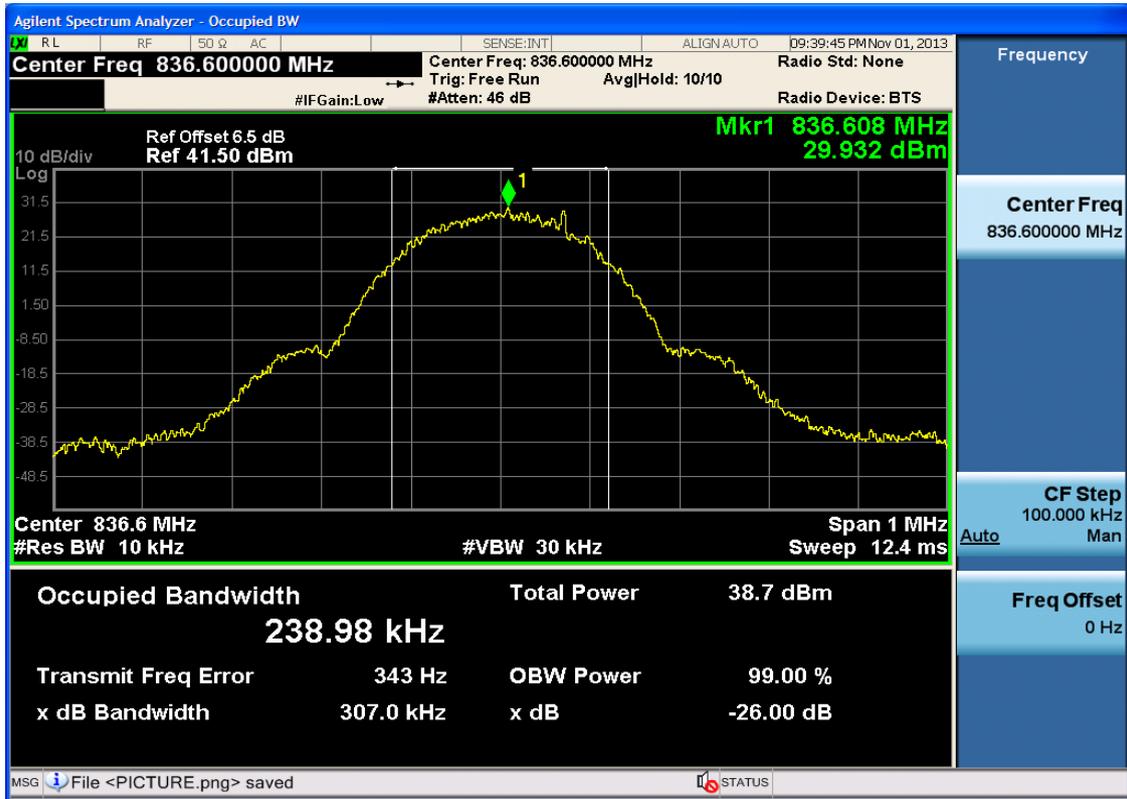
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4.1.1.1.1 Test Channel = LCH



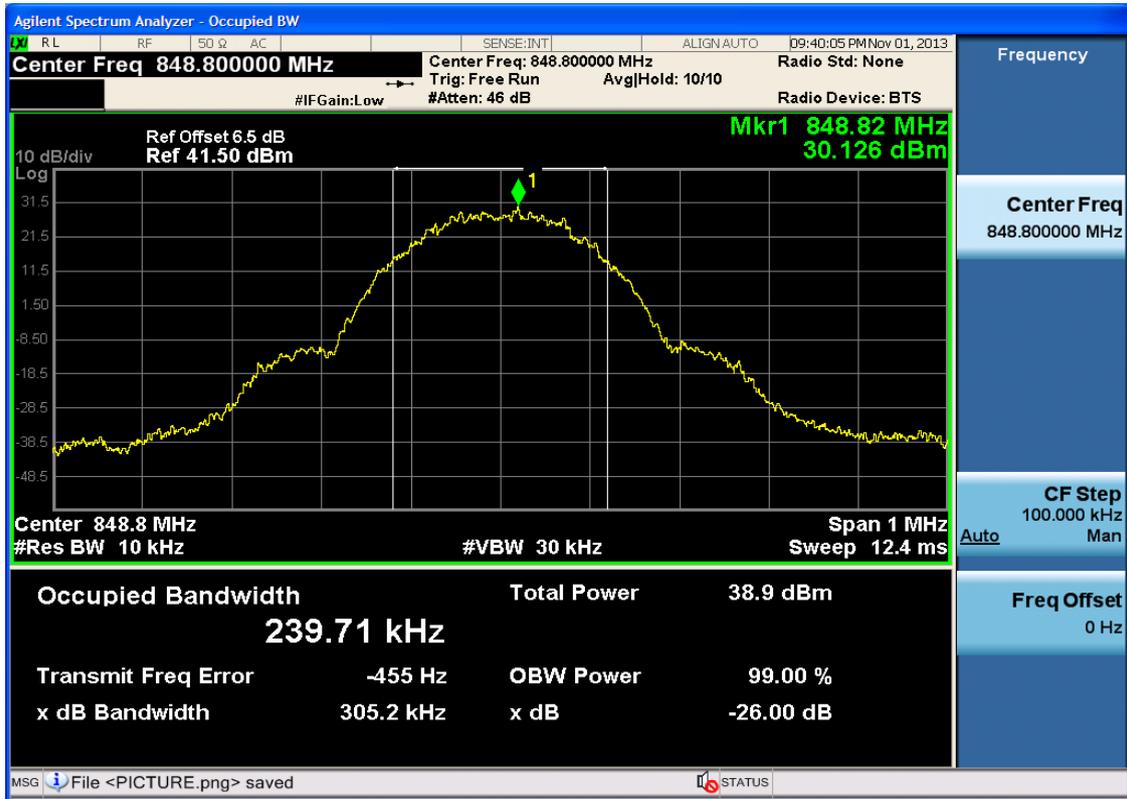


4.1.1.1.2 Test Channel = MCH





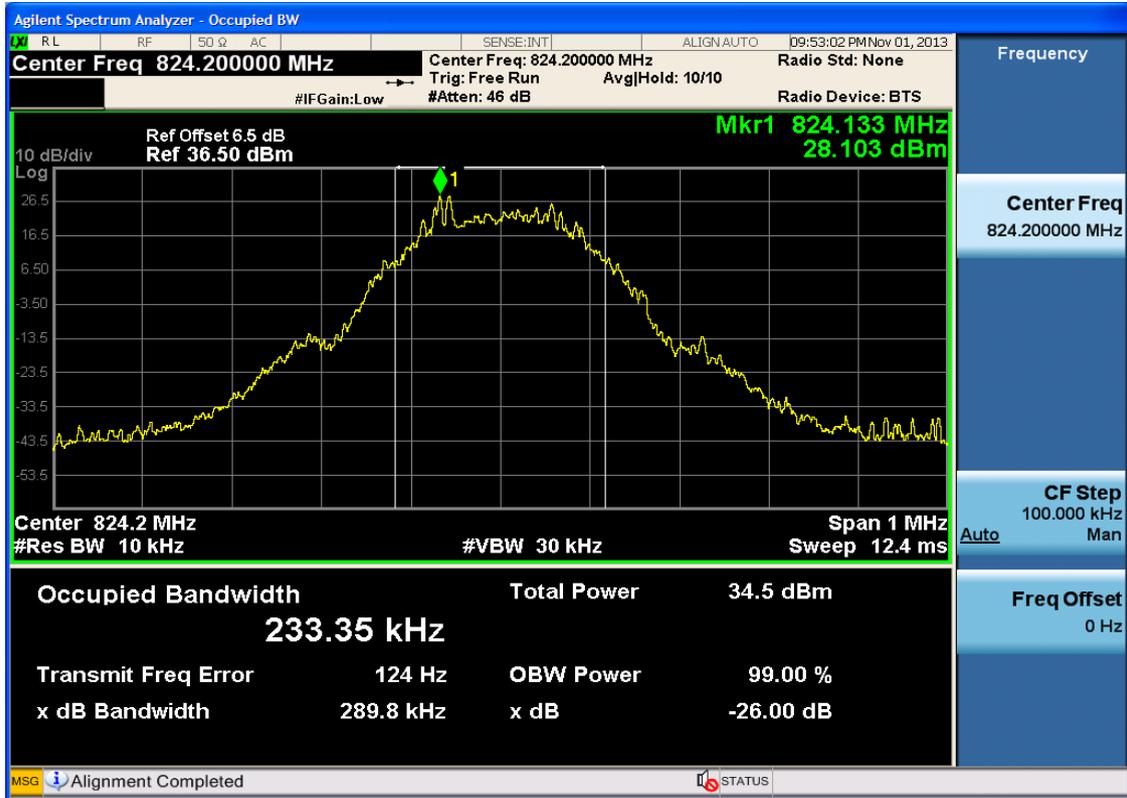
4.1.1.1.3 Test Channel = HCH



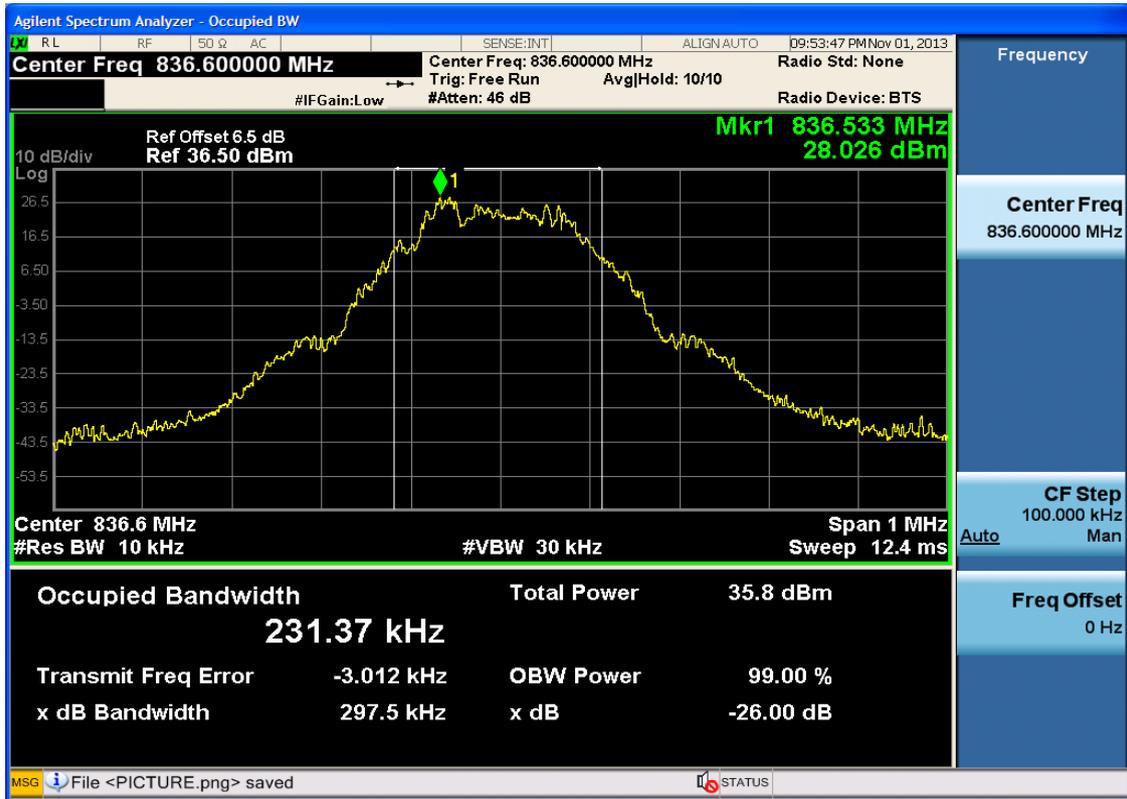


4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH

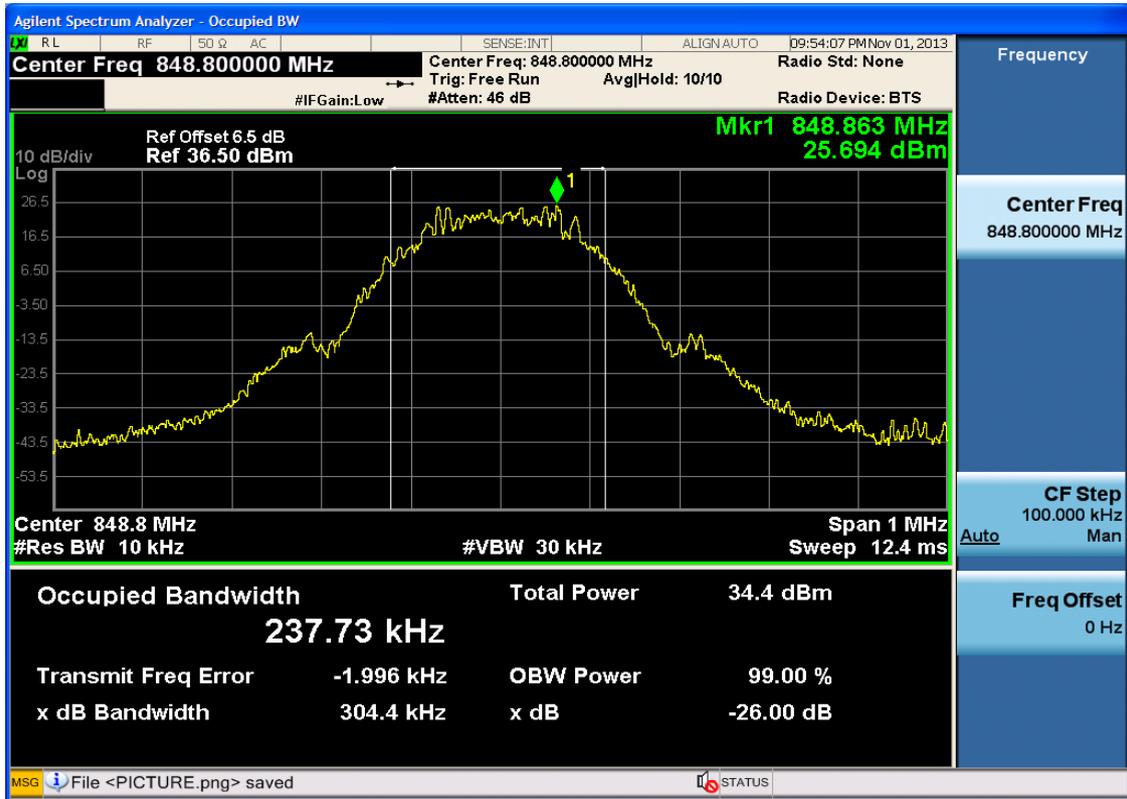


4.1.1.2.2 Test Channel = MCH





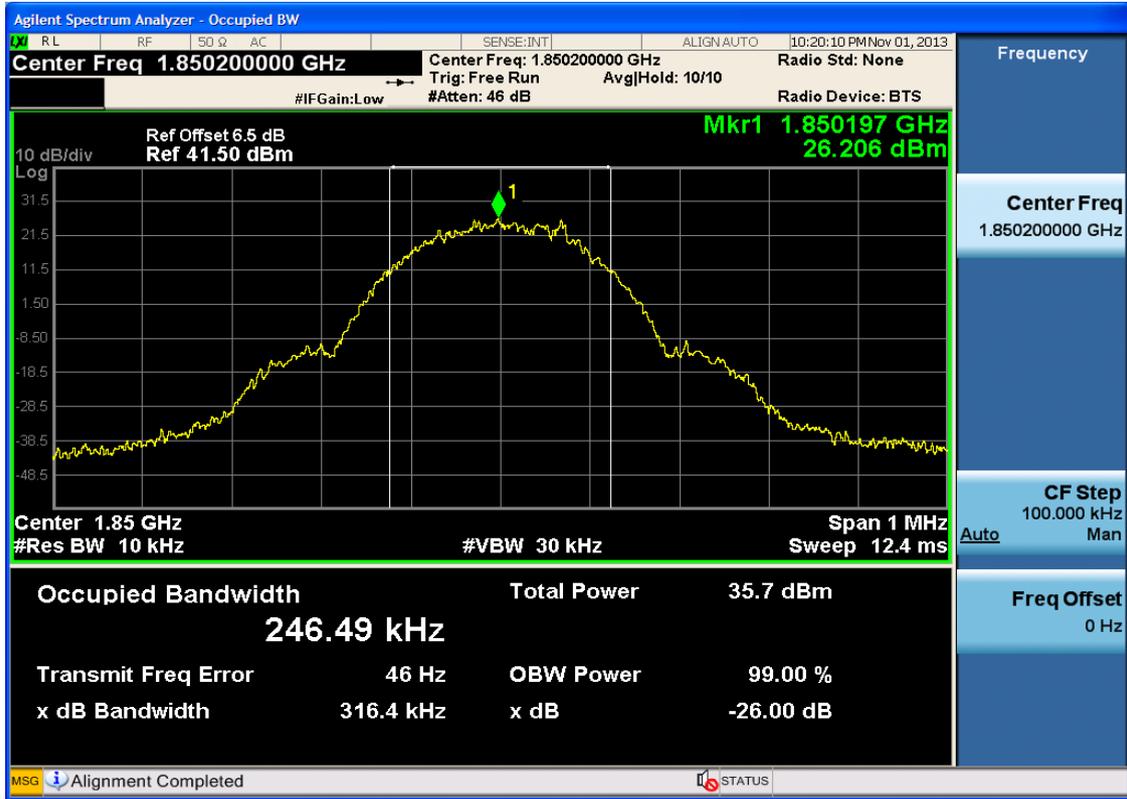
4.1.1.2.3 Test Channel = HCH



4.1.2 Test Band = GSM1900

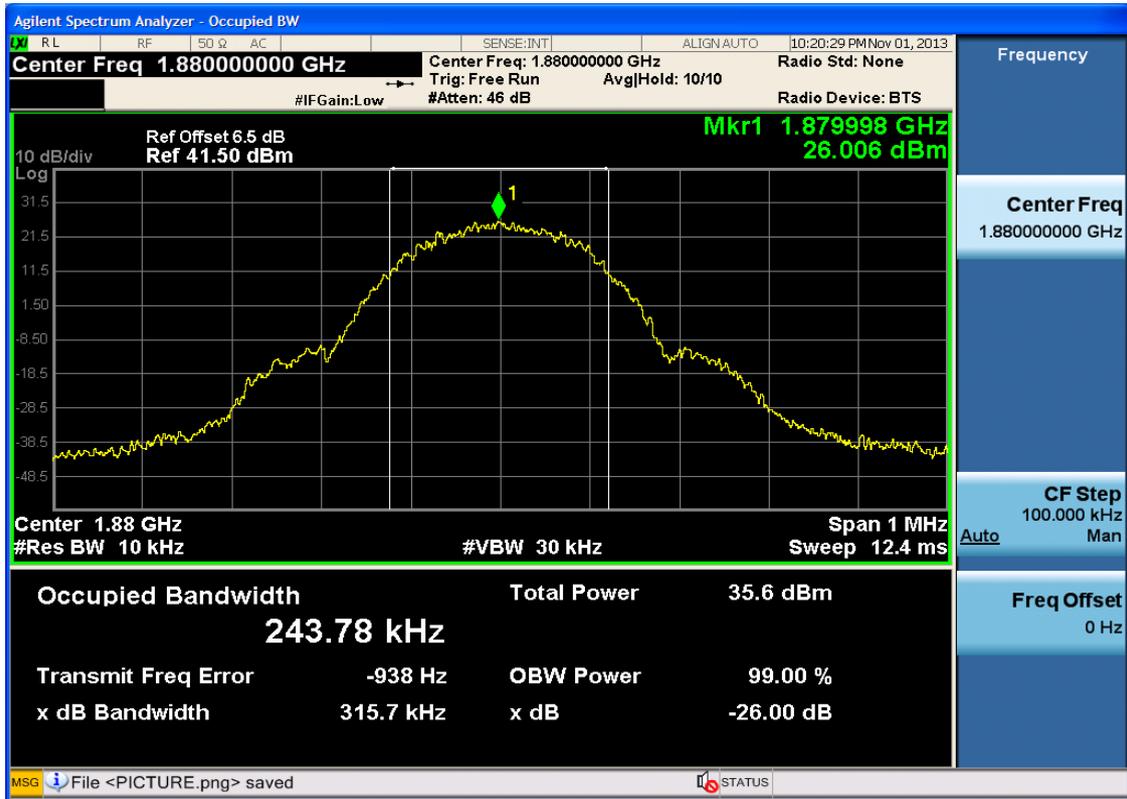
4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH



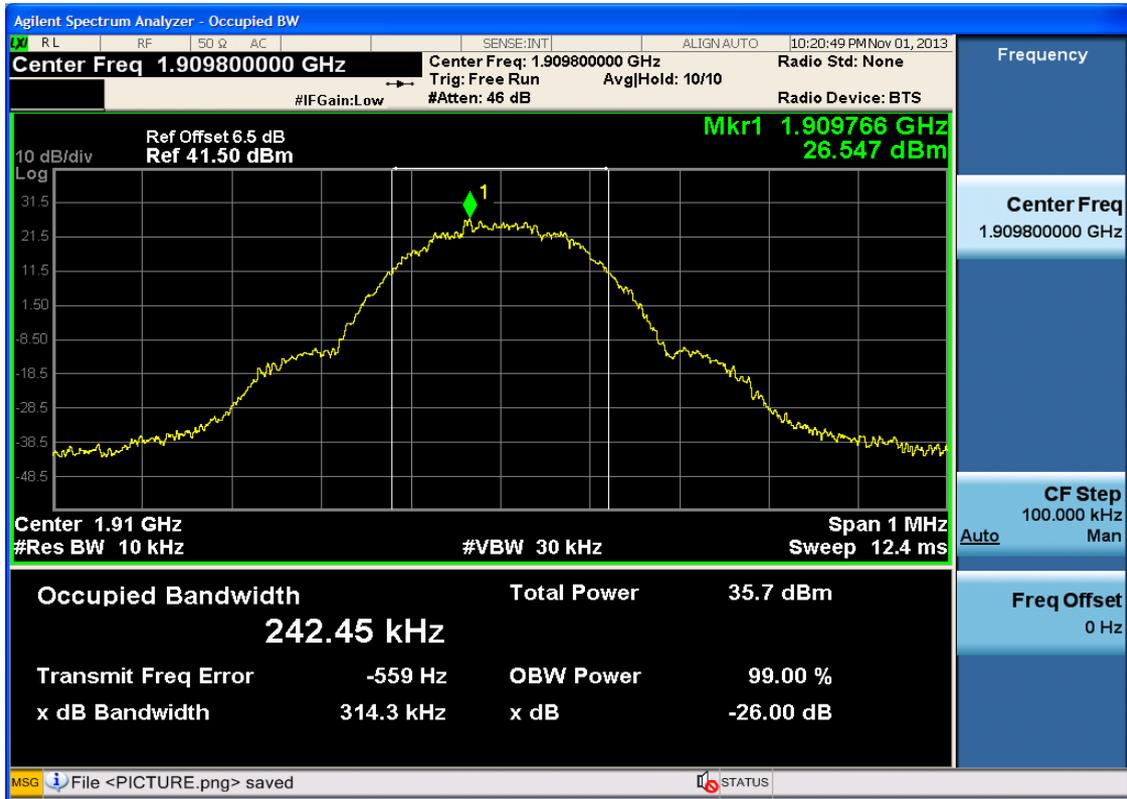


4.1.2.1.2 Test Channel = MCH





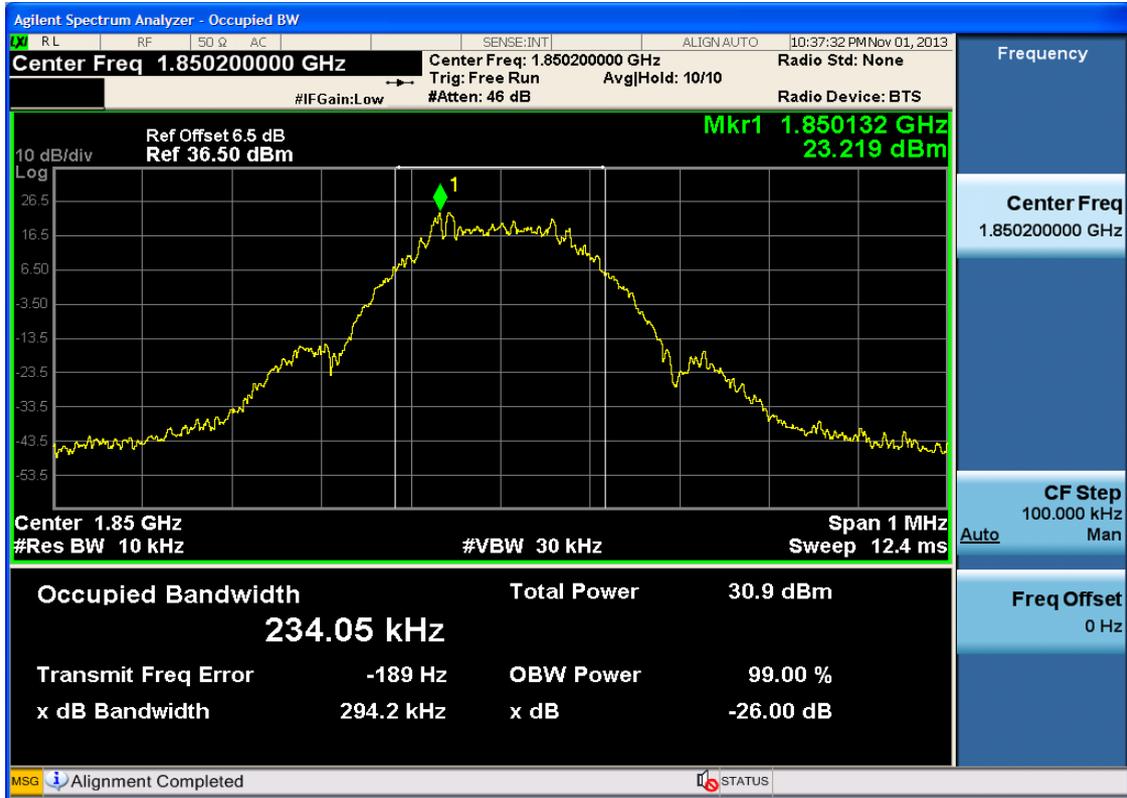
4.1.2.1.3 Test Channel = HCH





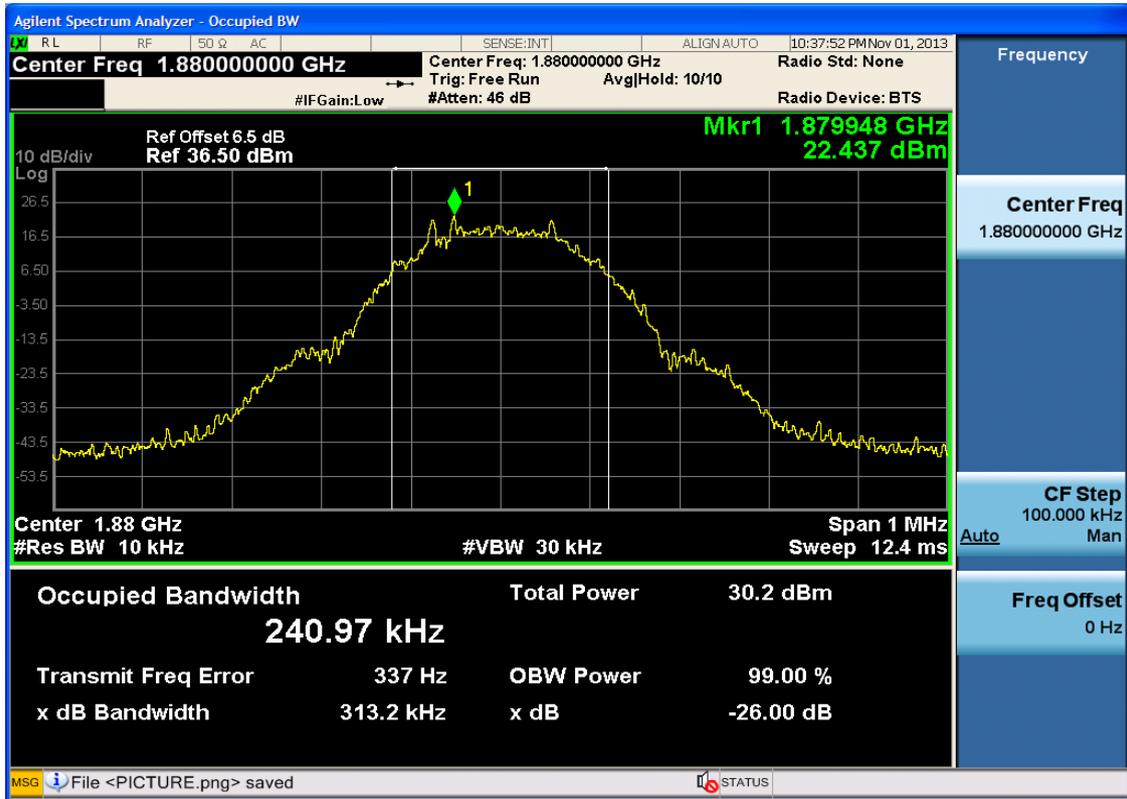
4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH



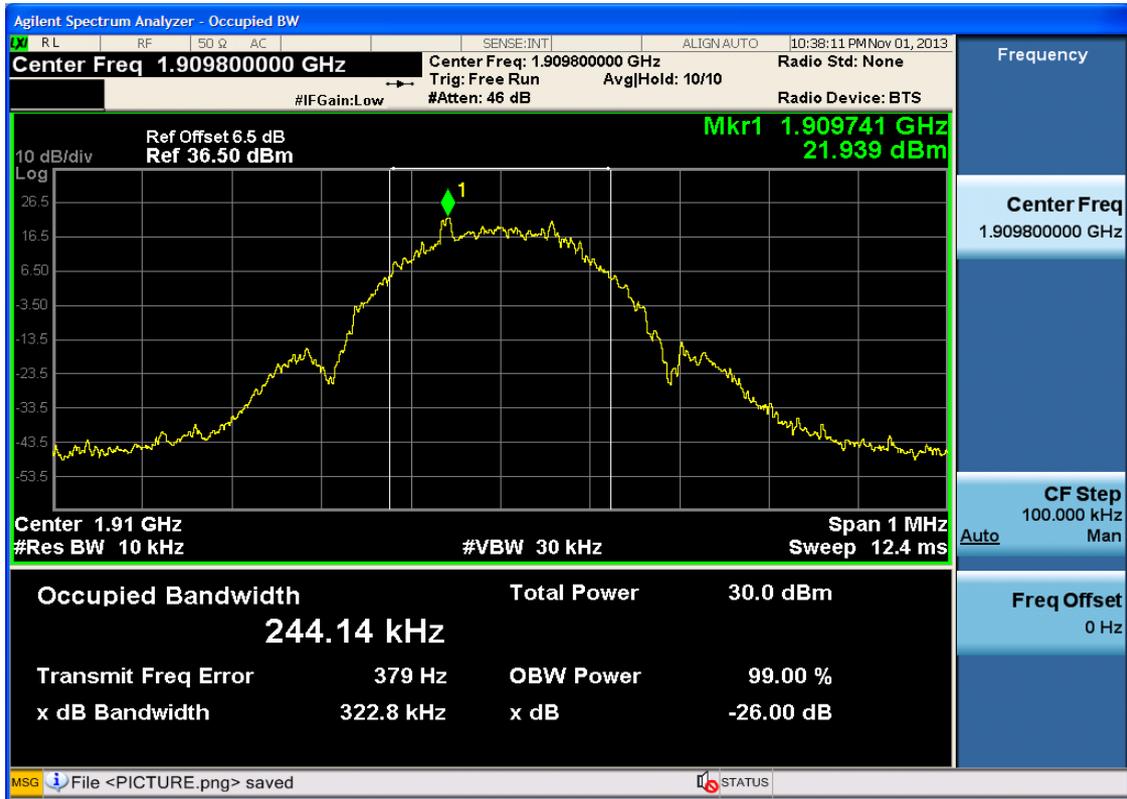


4.1.2.2.2 Test Channel = MCH





4.1.2.2.3 Test Channel = HCH



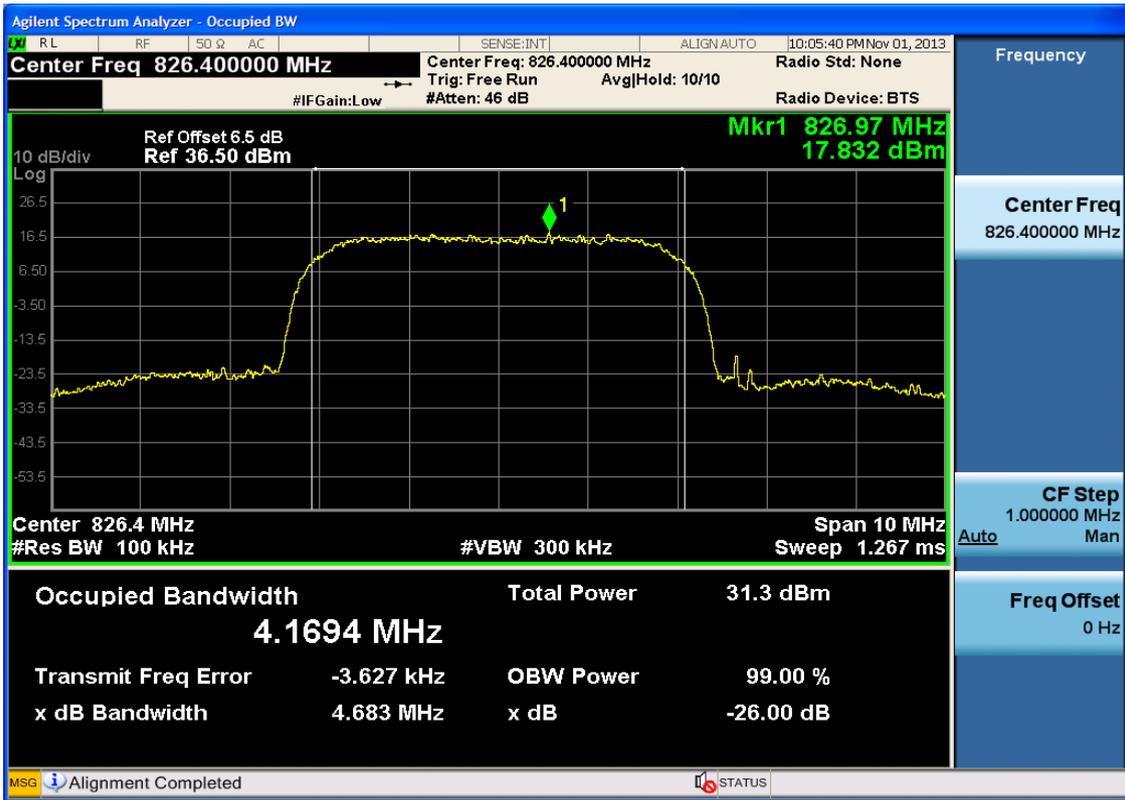


4.2 For UMTS

4.2.1 Test Band = WCDMA850

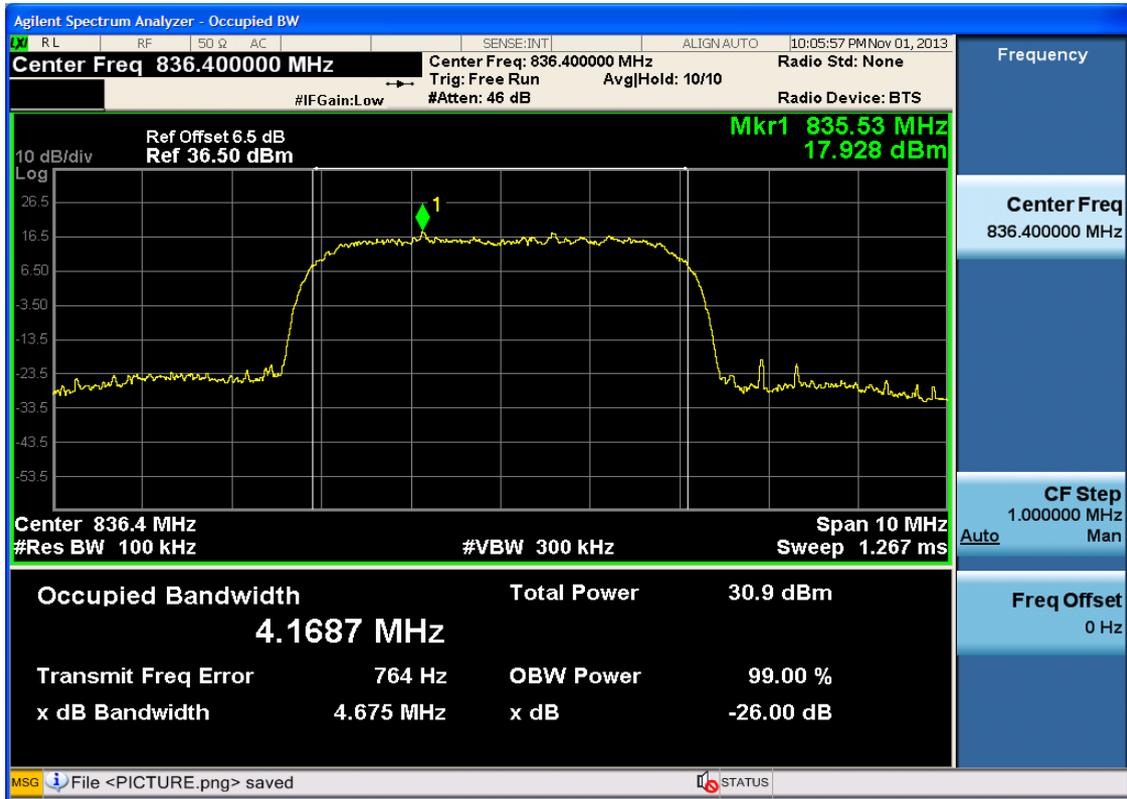
4.2.1.1 Test Mode = UMTS/TM1

4.2.1.1.1 Test Channel = LCH



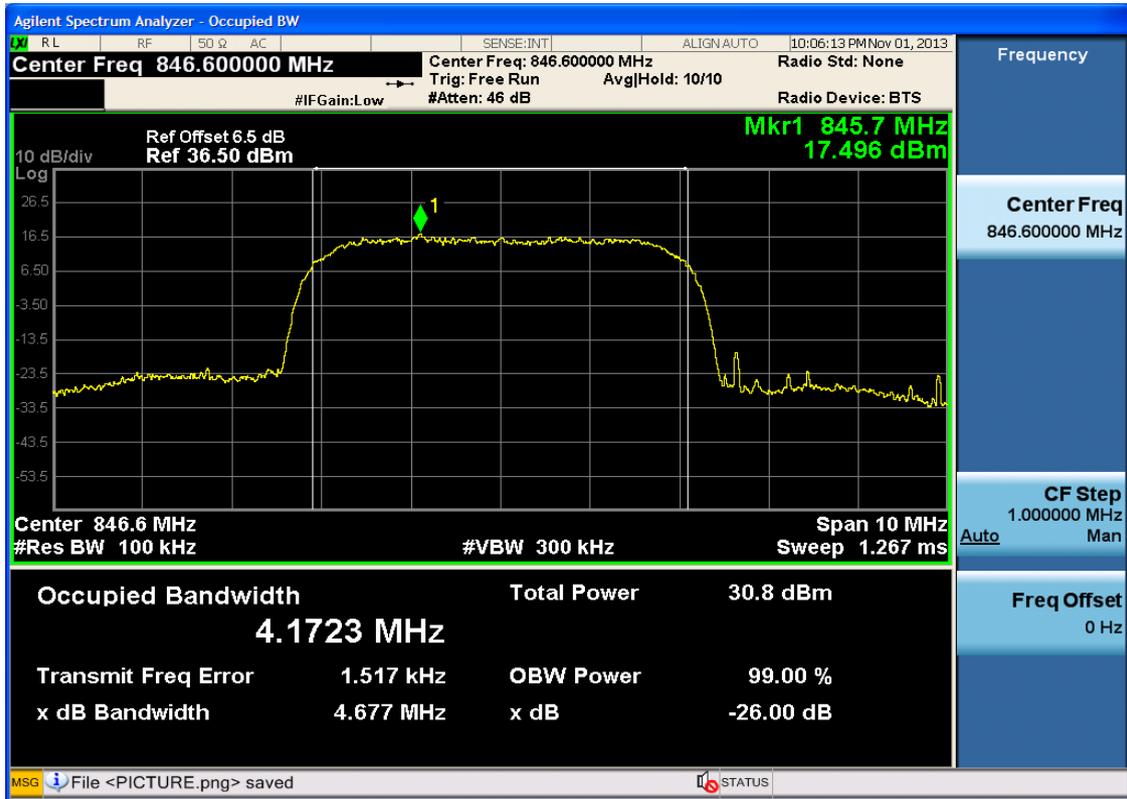


4.2.1.1.2 Test Channel = MCH





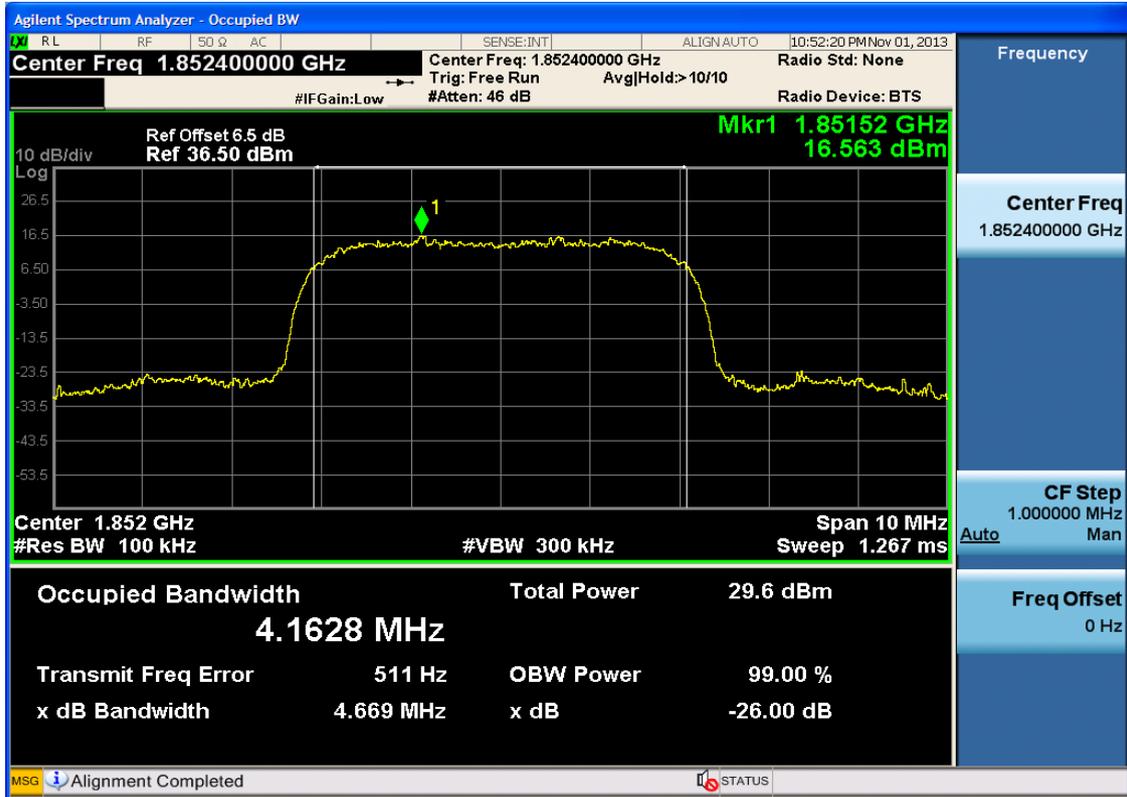
4.2.1.1.3 Test Channel = HCH



4.2.2 Test Band = WCDMA1900

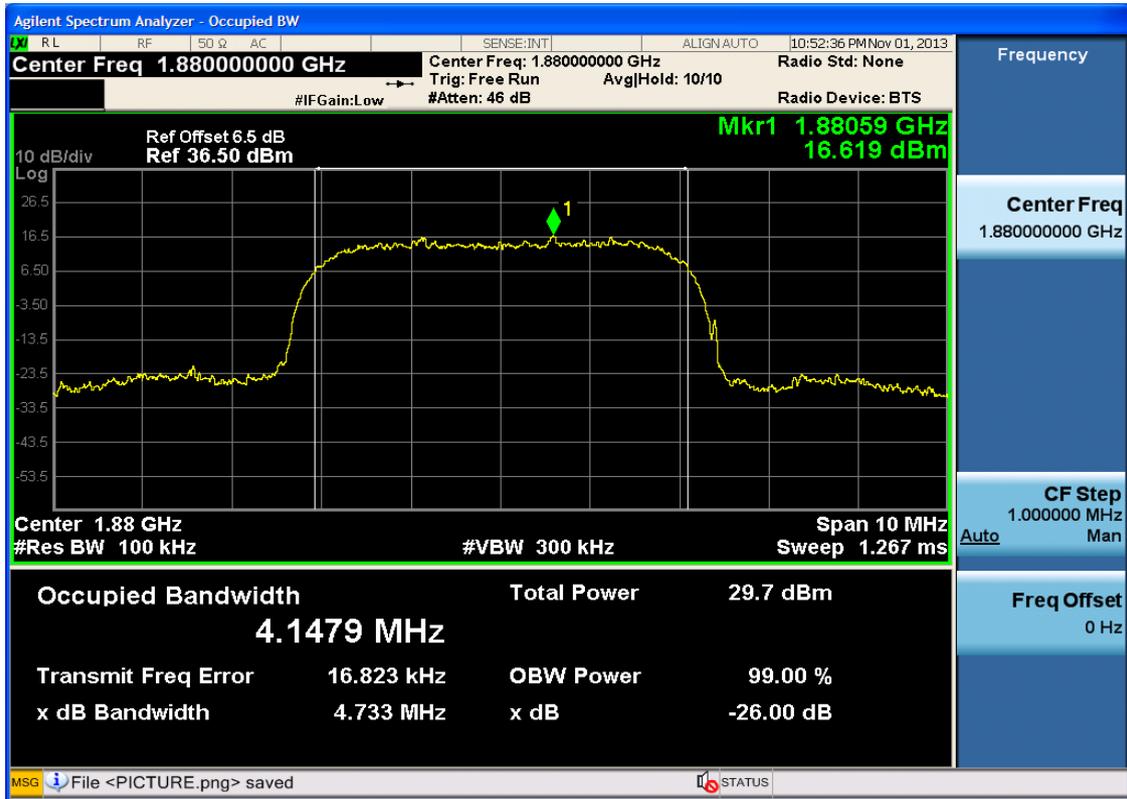
4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH

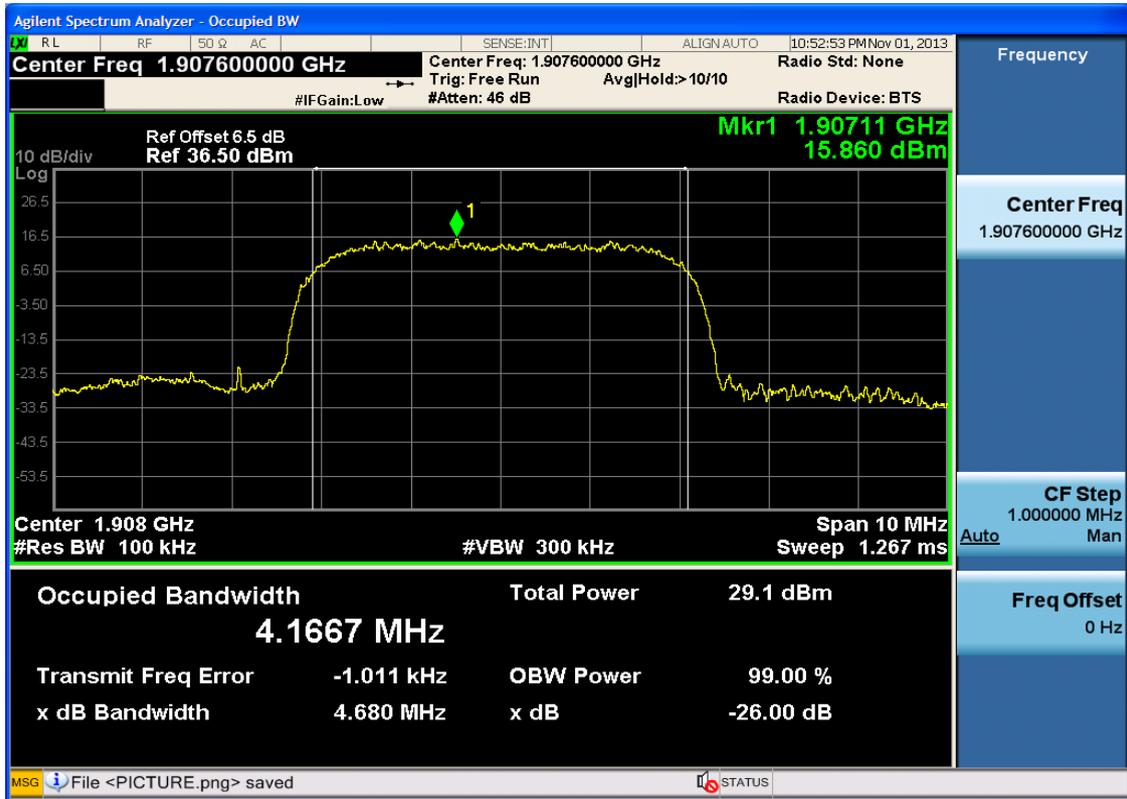




4.2.2.1.2 Test Channel = MCH



4.2.2.1.3 Test Channel = HCH



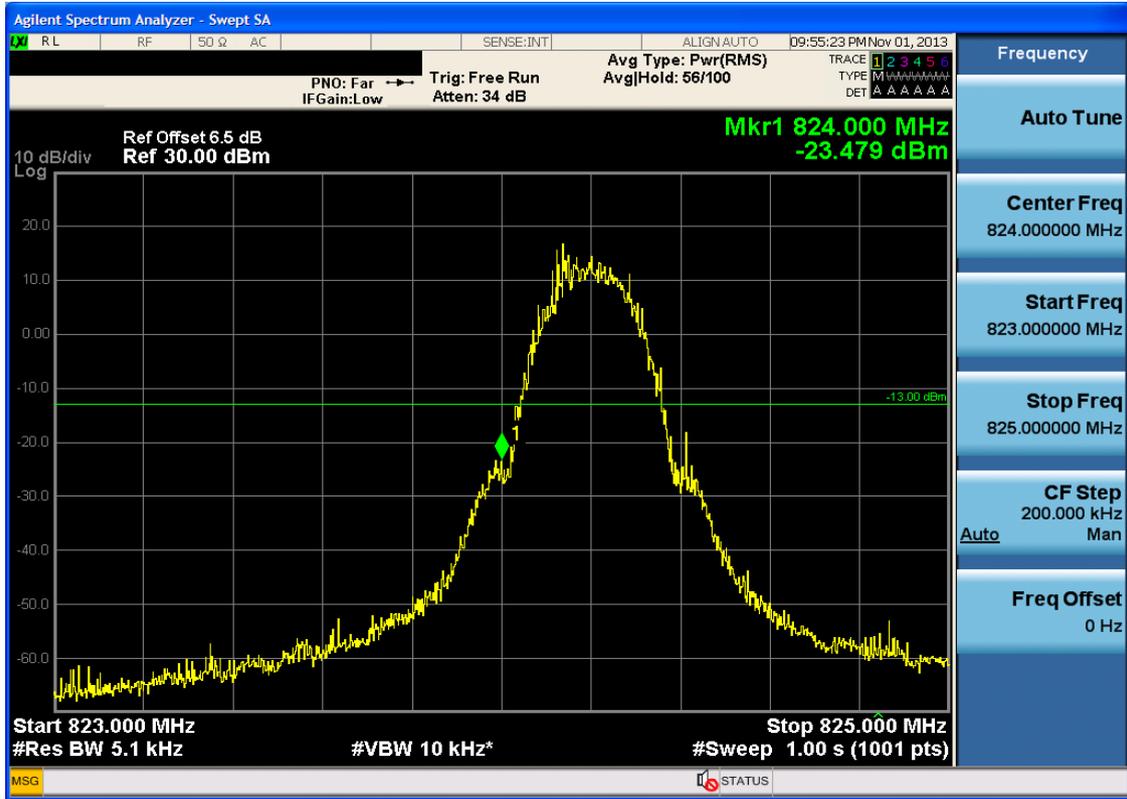


5.1.1.1.2 Test Channel = HCH



5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH





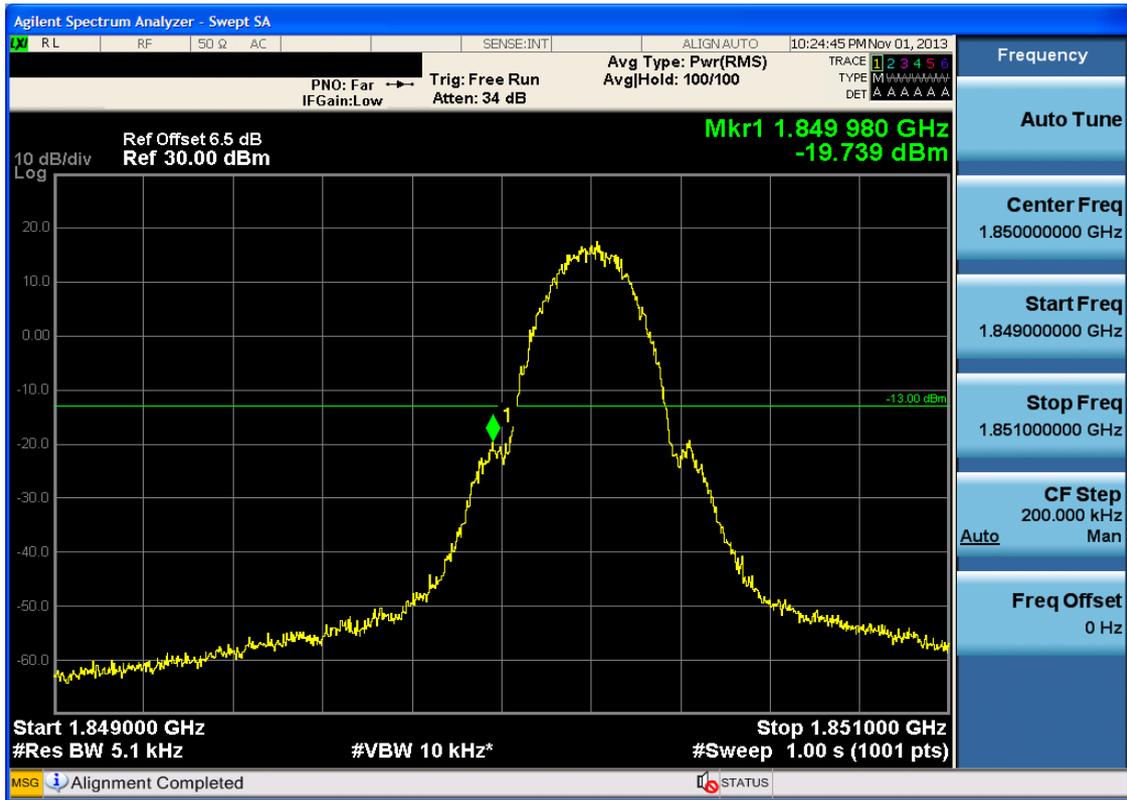
5.1.1.2.2 Test Channel = HCH



5.1.2 Test Band = GSM1900

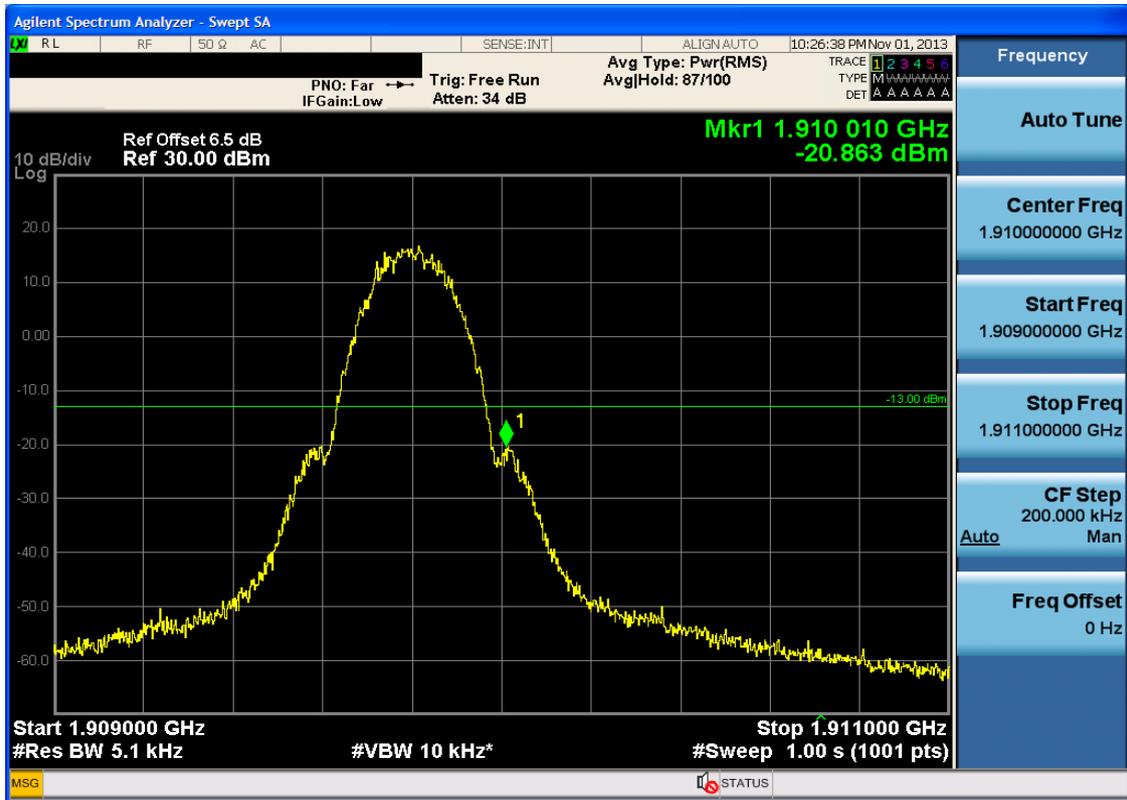
5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH



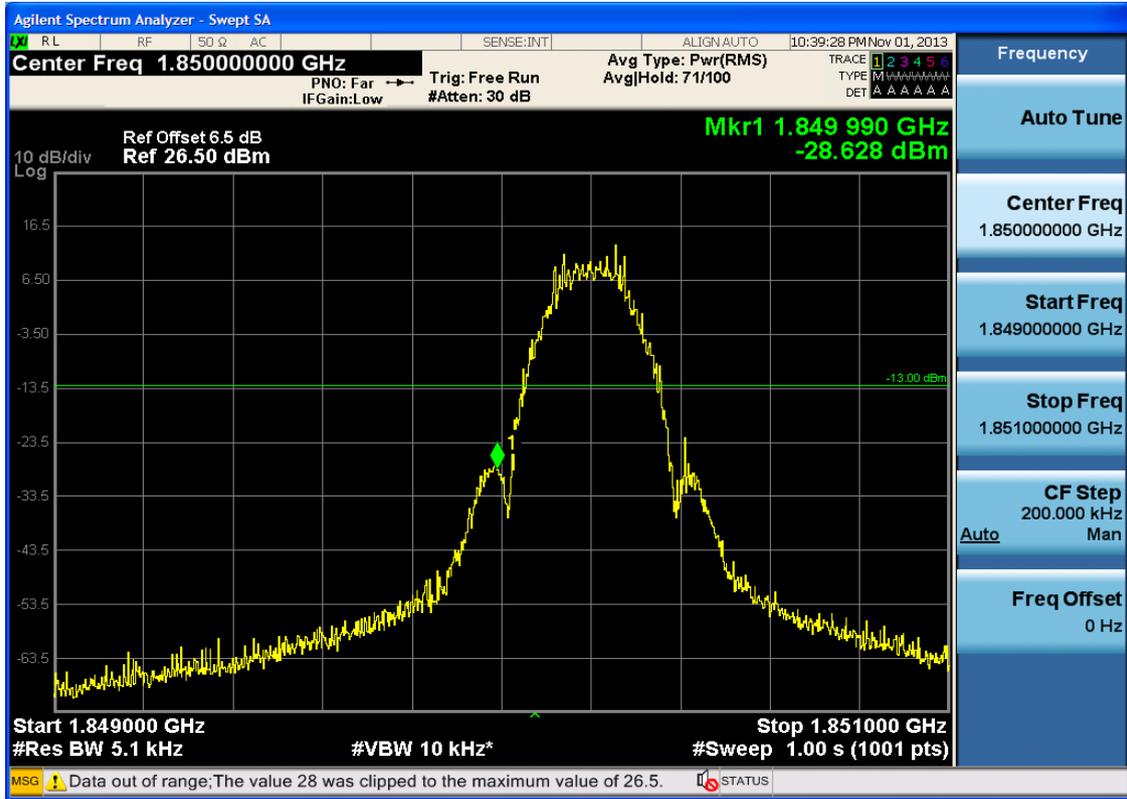


5.1.2.1.2 Test Channel = HCH



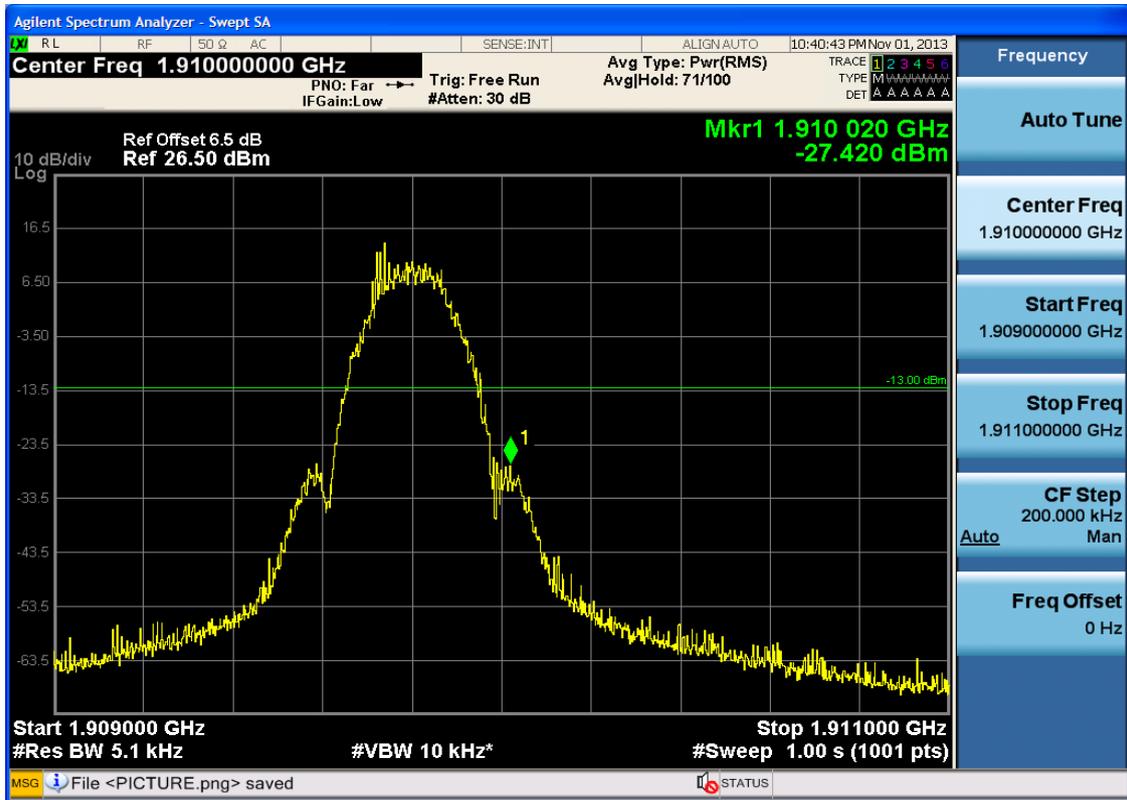
5.1.2.2 Test Mode = GSM/TM2

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 = WCDMA850

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 = WCDMA1900

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

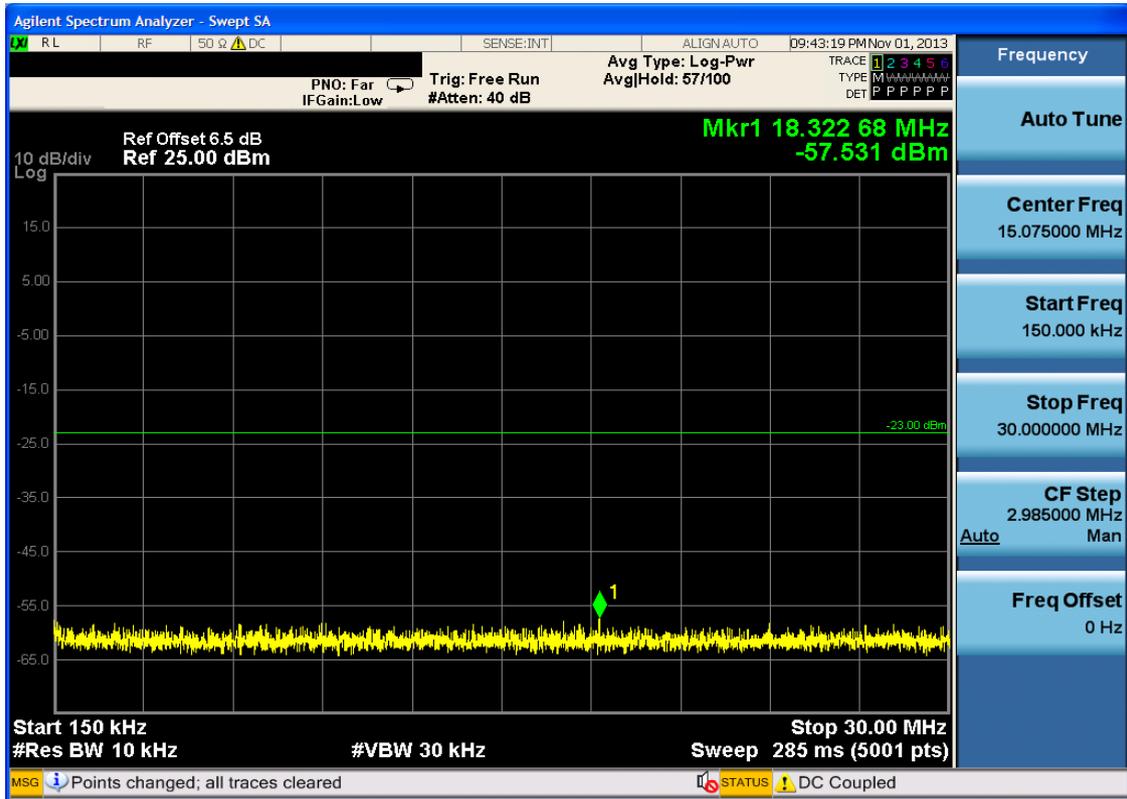
6.1 For GSM

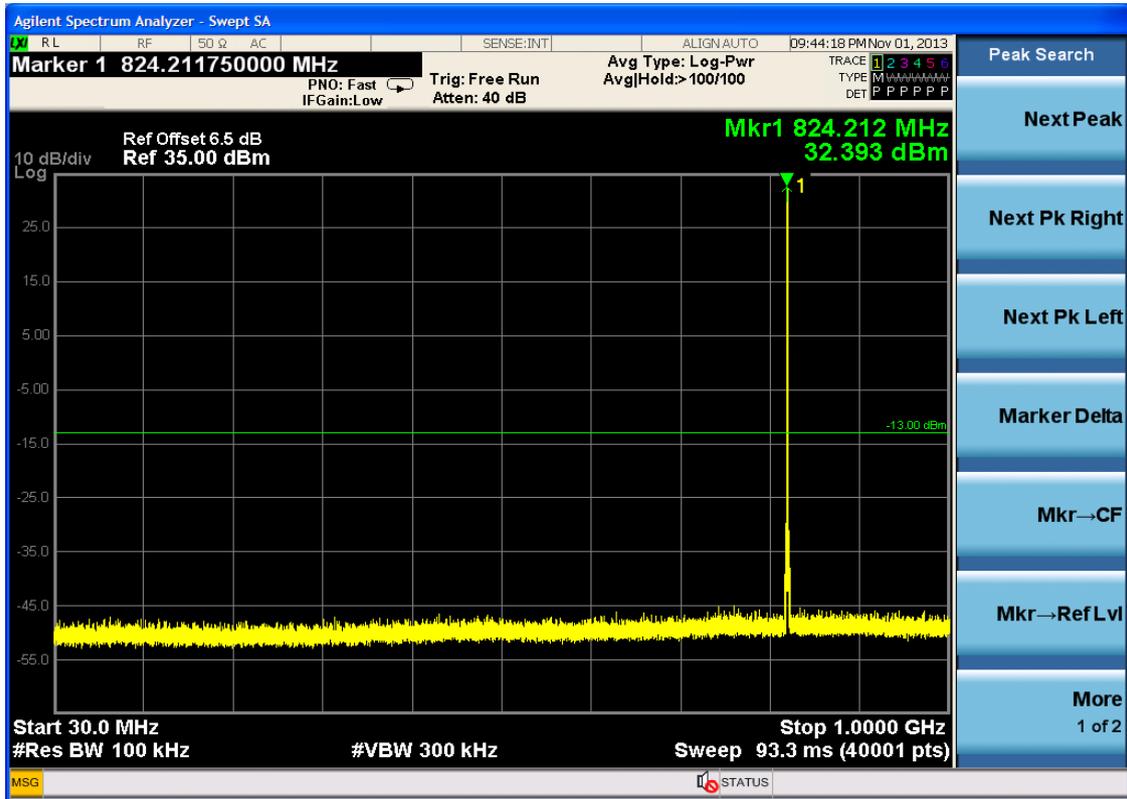
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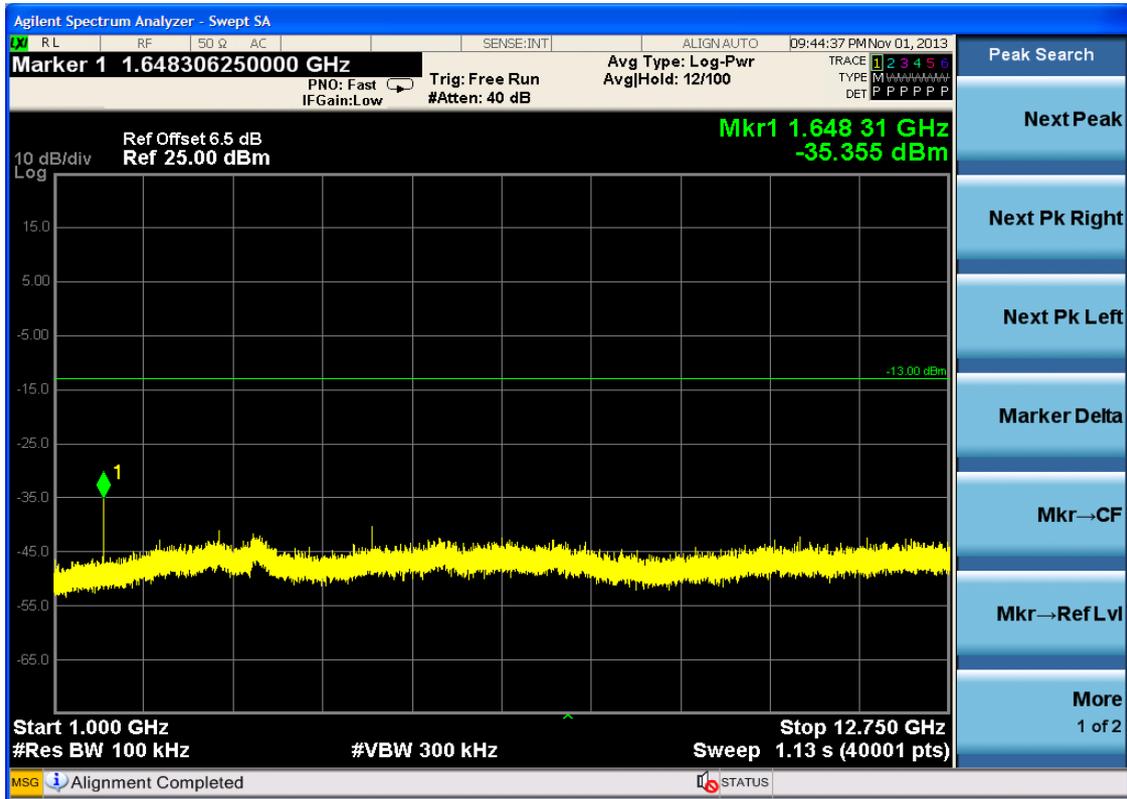
6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



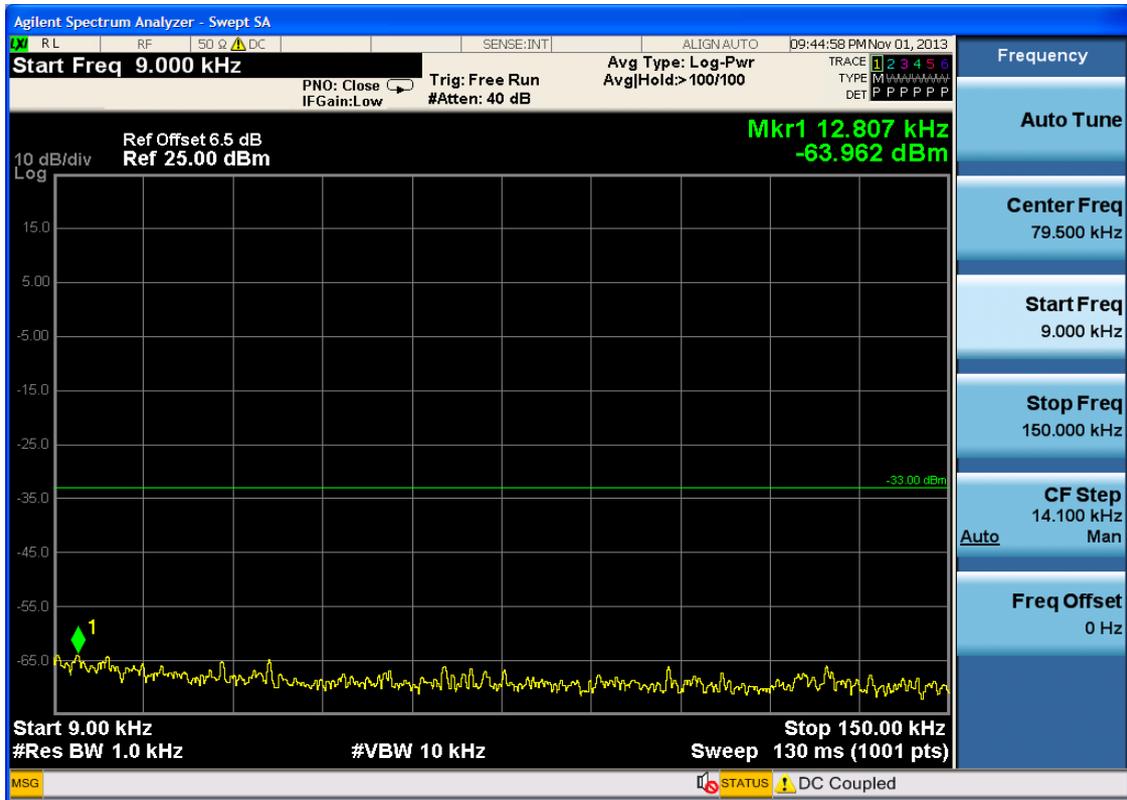


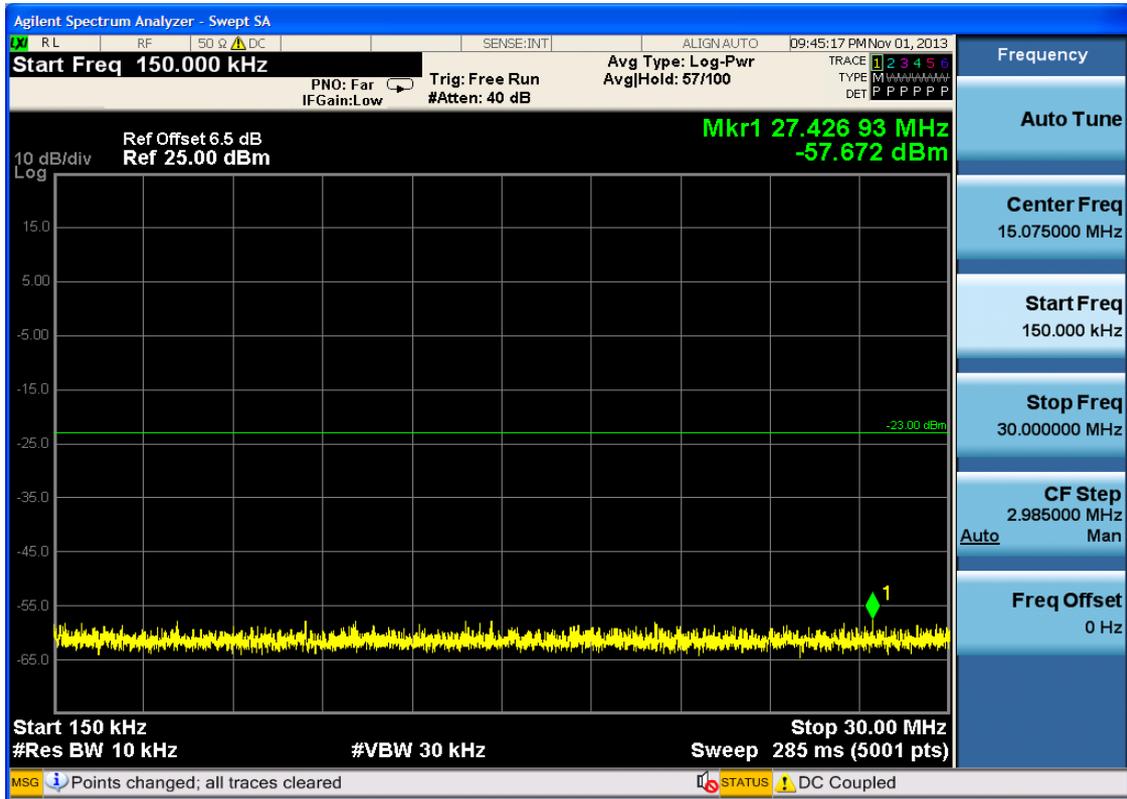


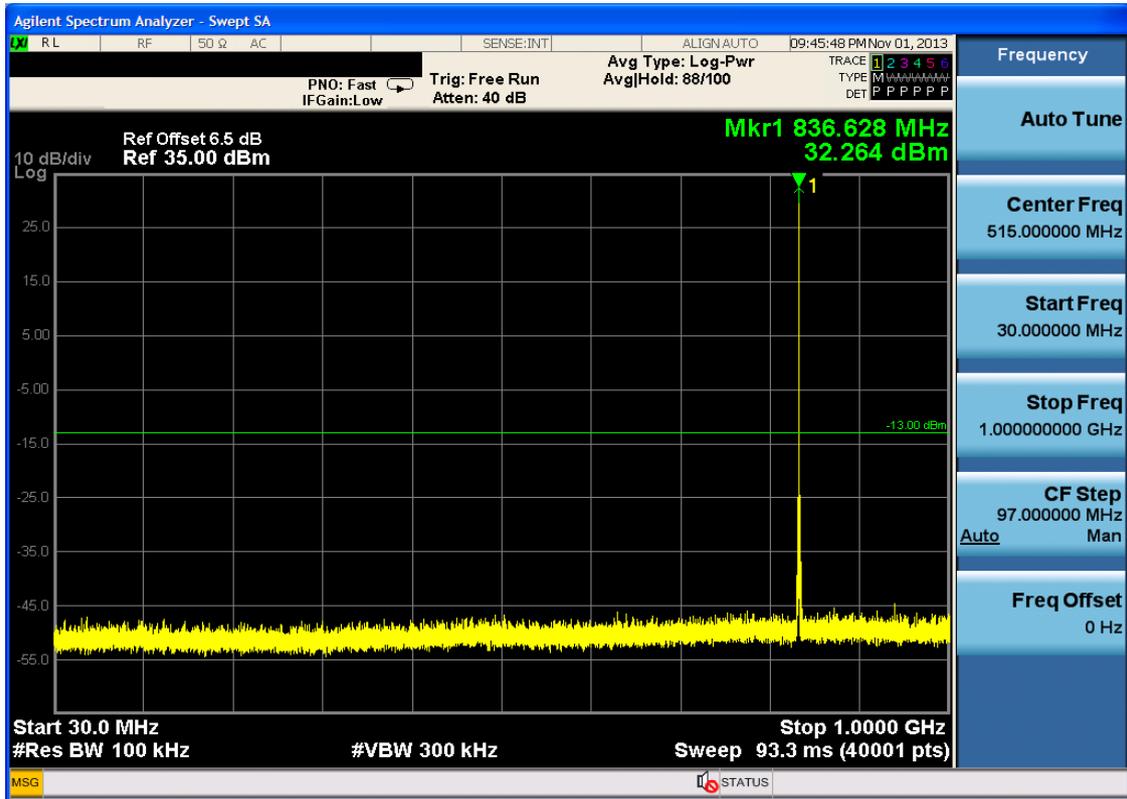


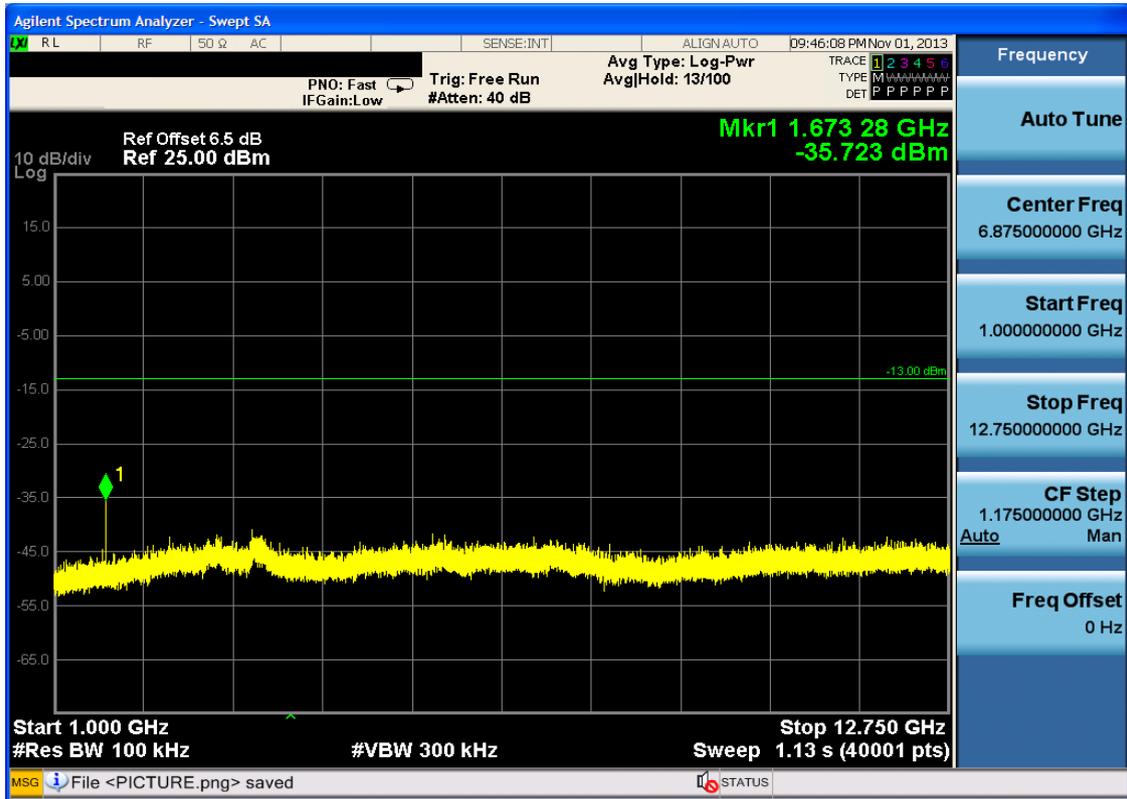


6.1.1.1.2 Test Channel = MCH



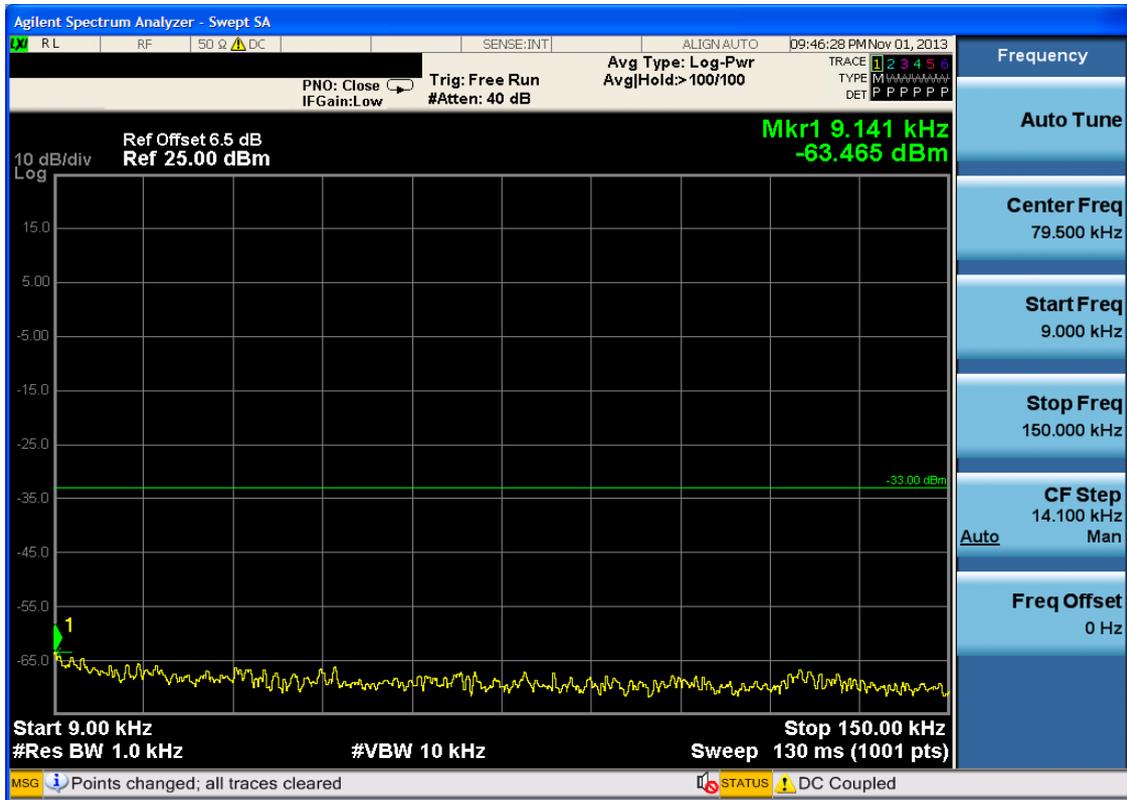


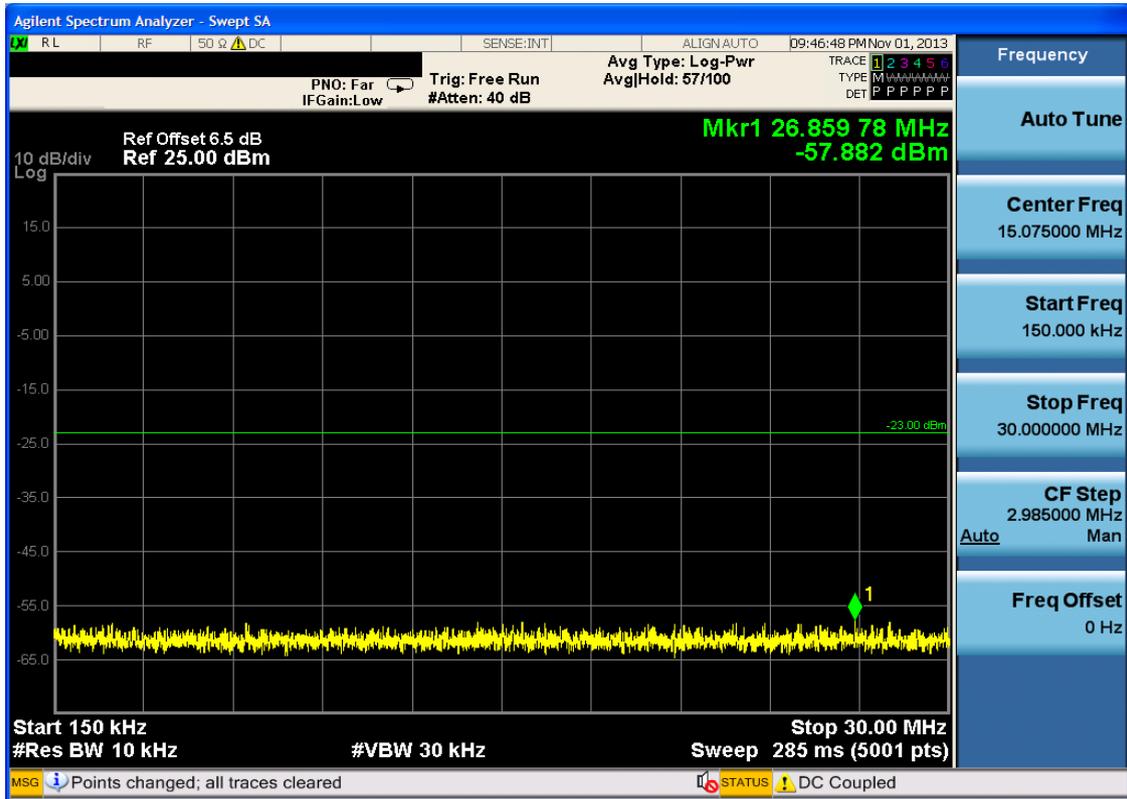


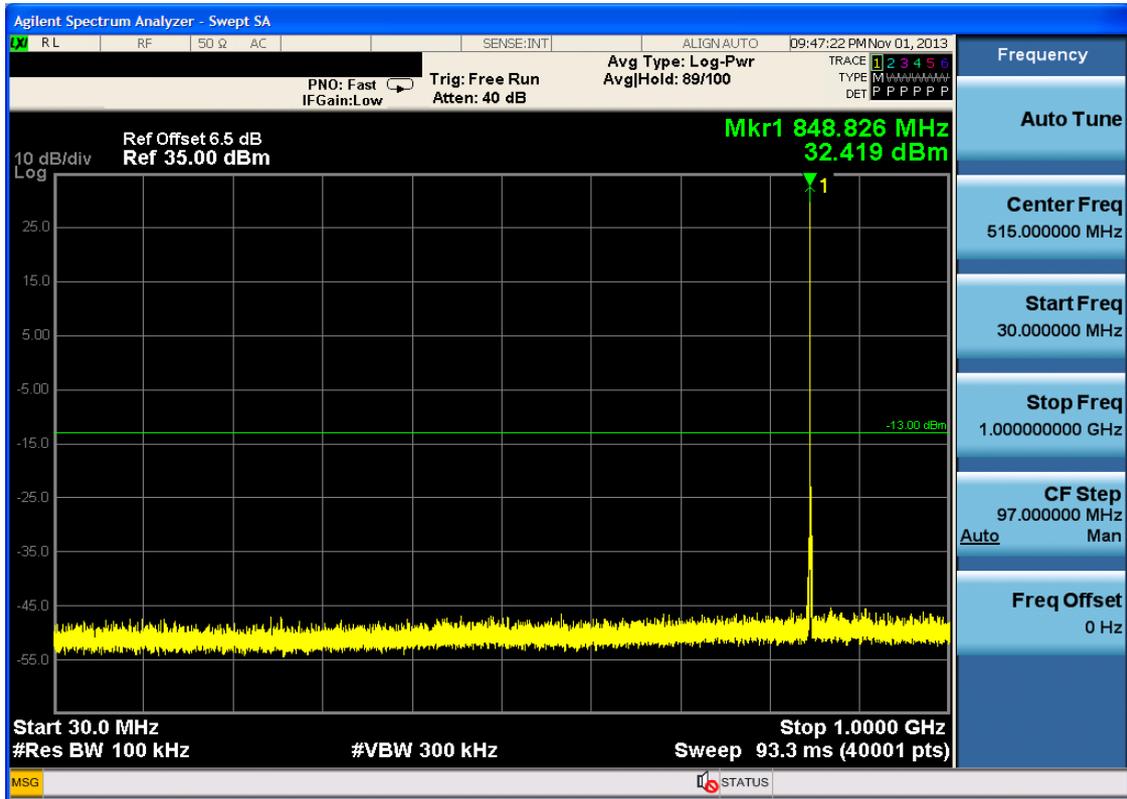


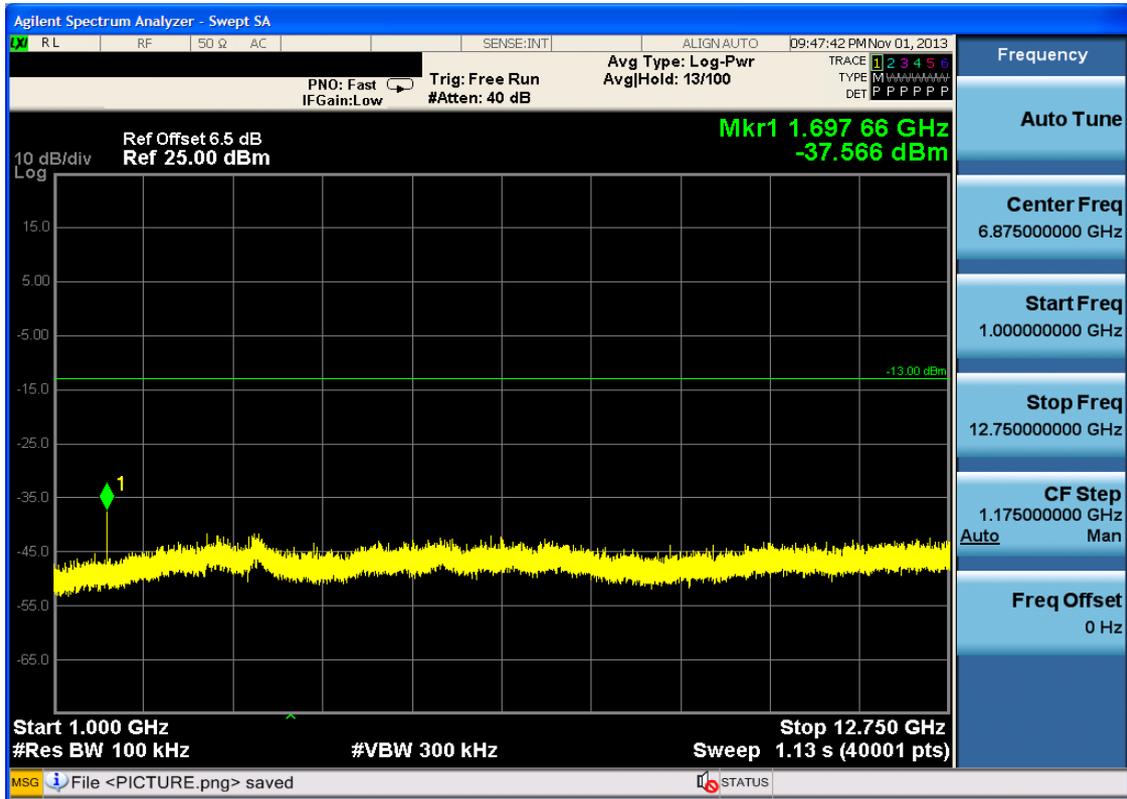


6.1.1.1.3 Test Channel = HCH





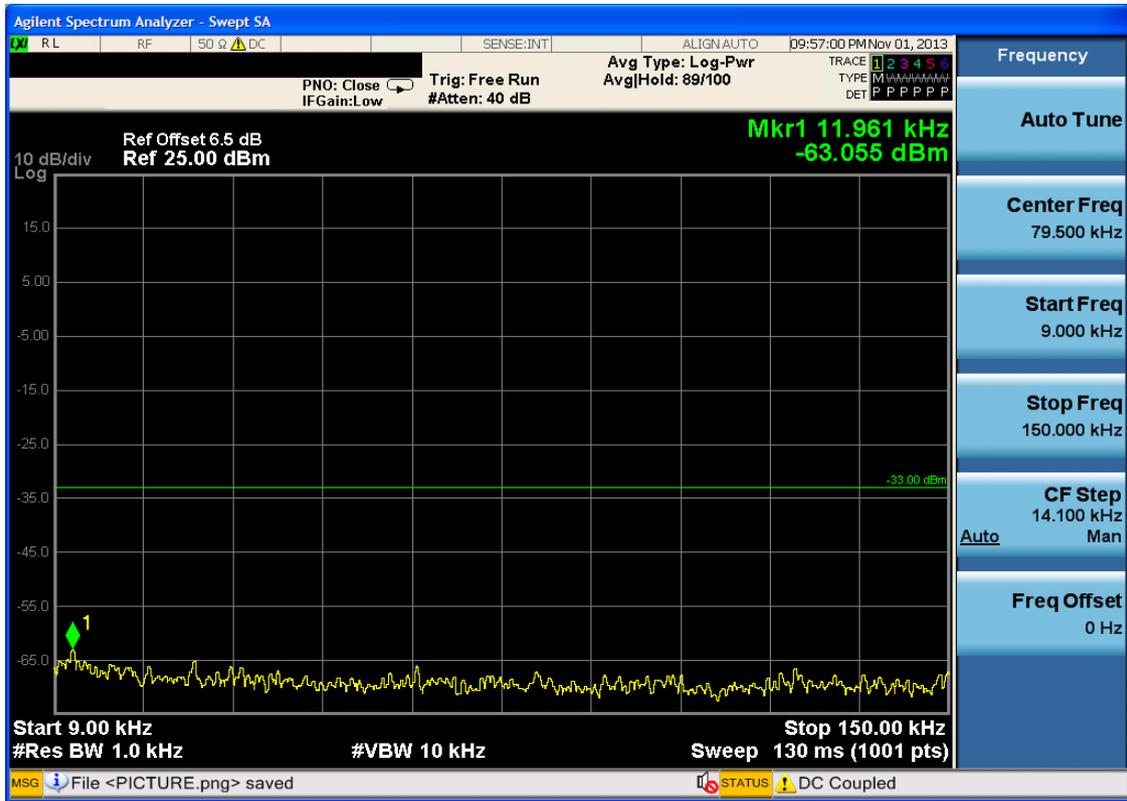


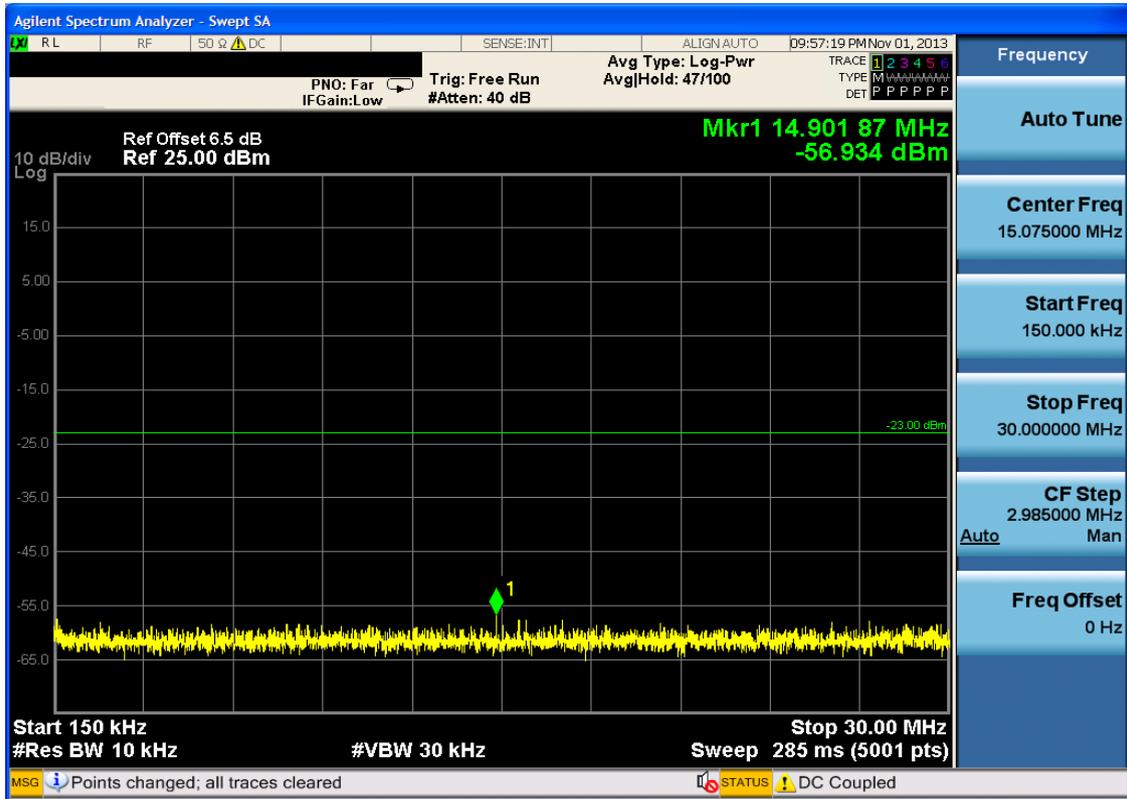


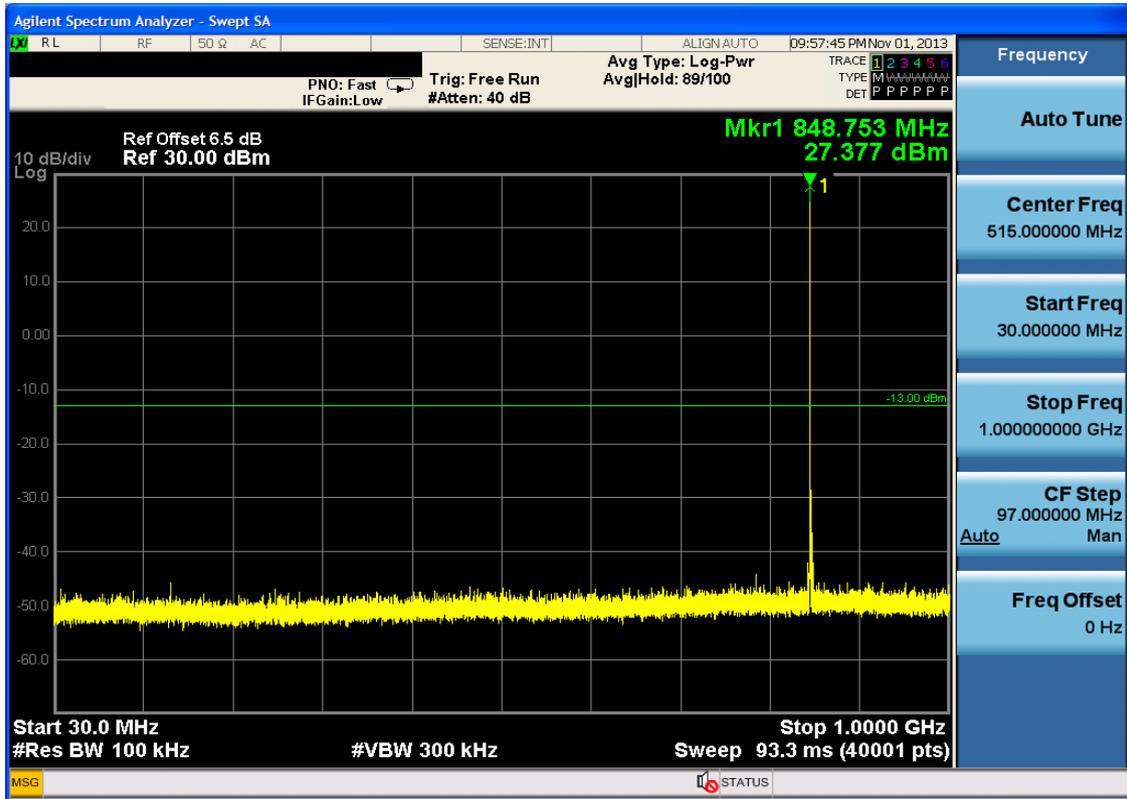


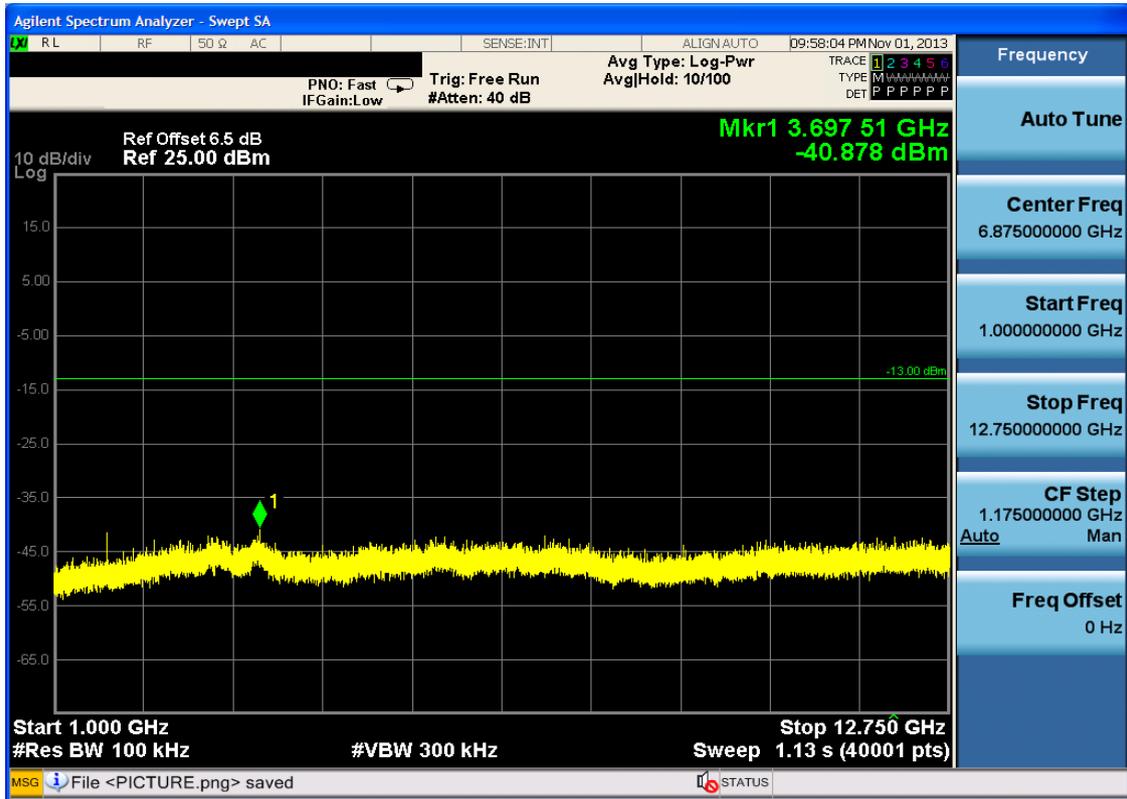
6.1.1.2 Test Mode = GSM/TM2

6.1.1.2.1 Test Channel = LCH





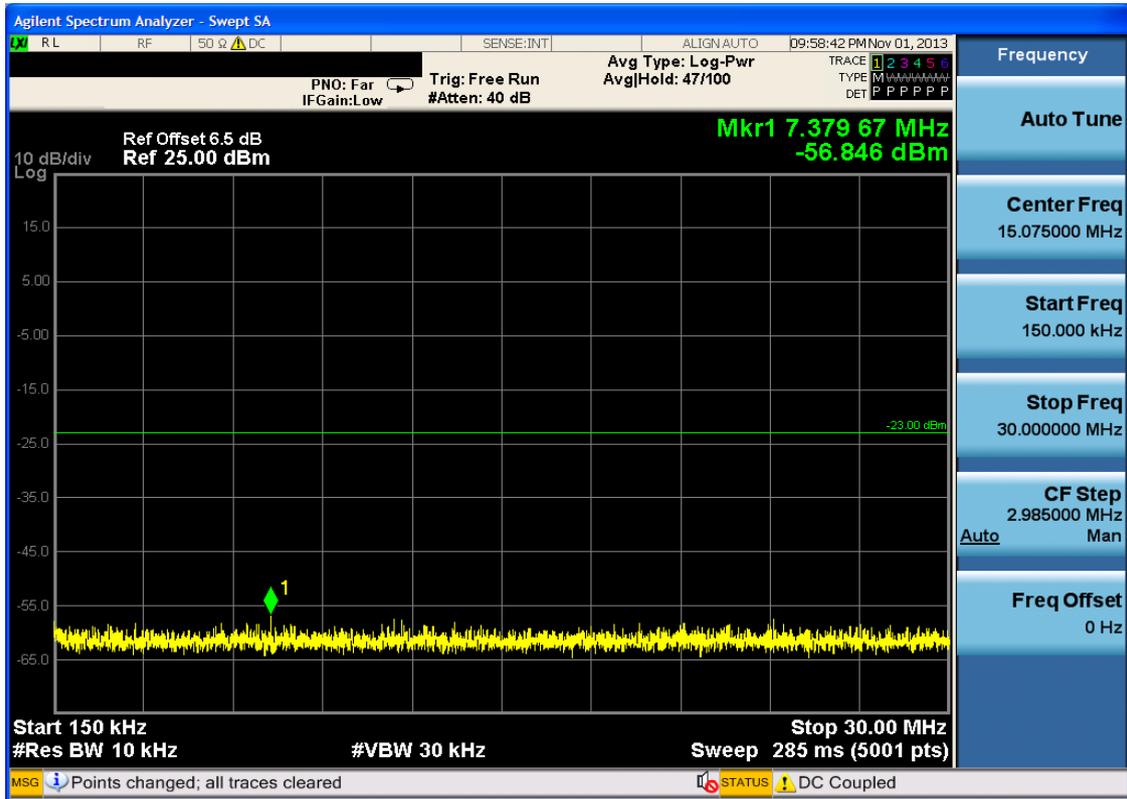


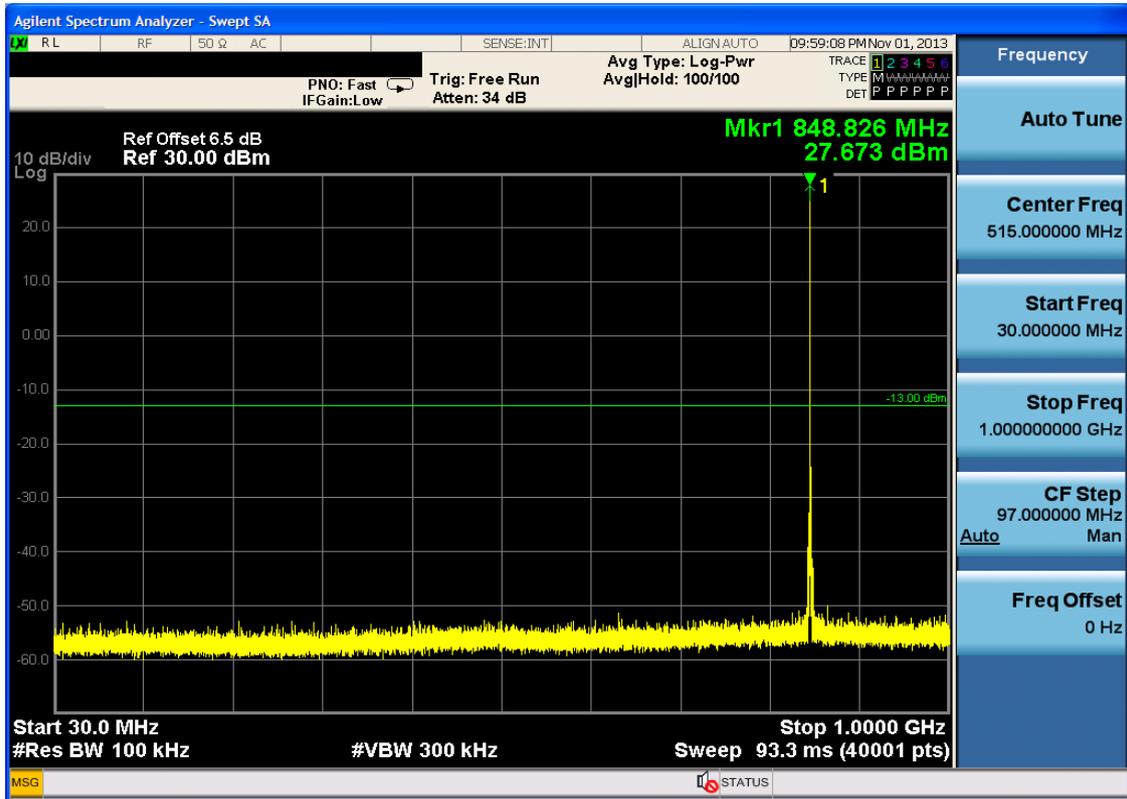


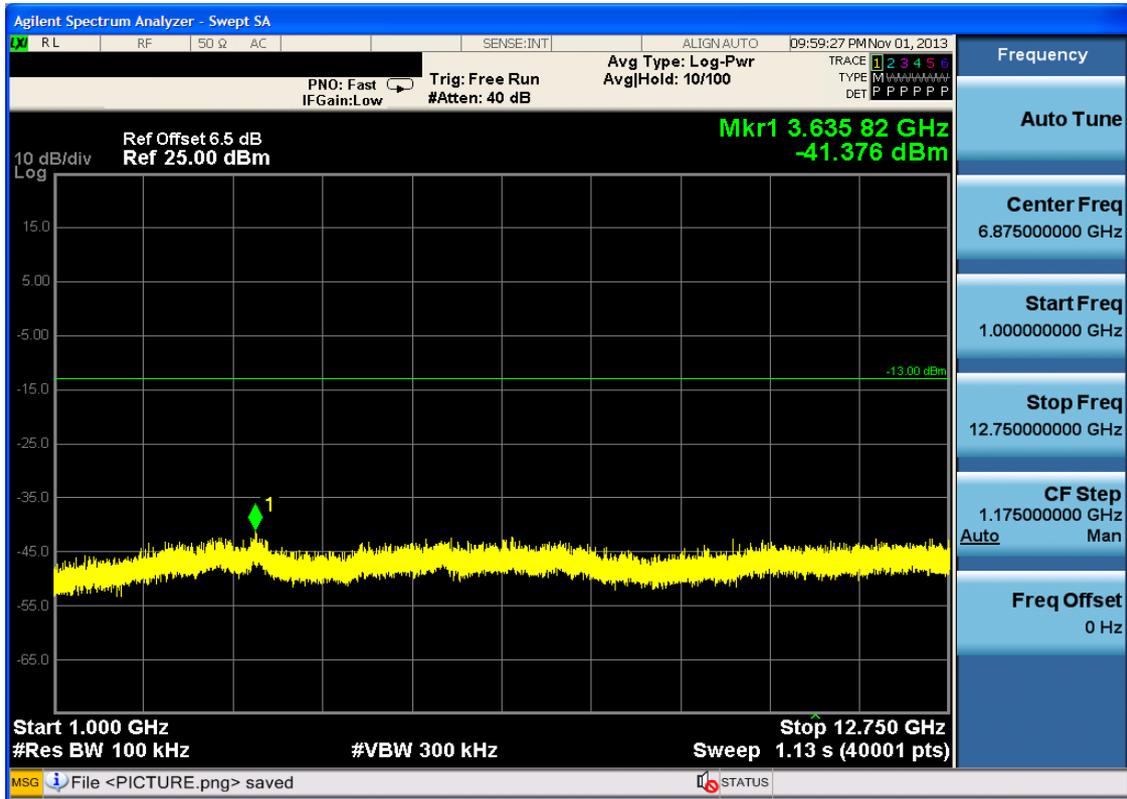


6.1.1.2.2 Test Channel = MCH



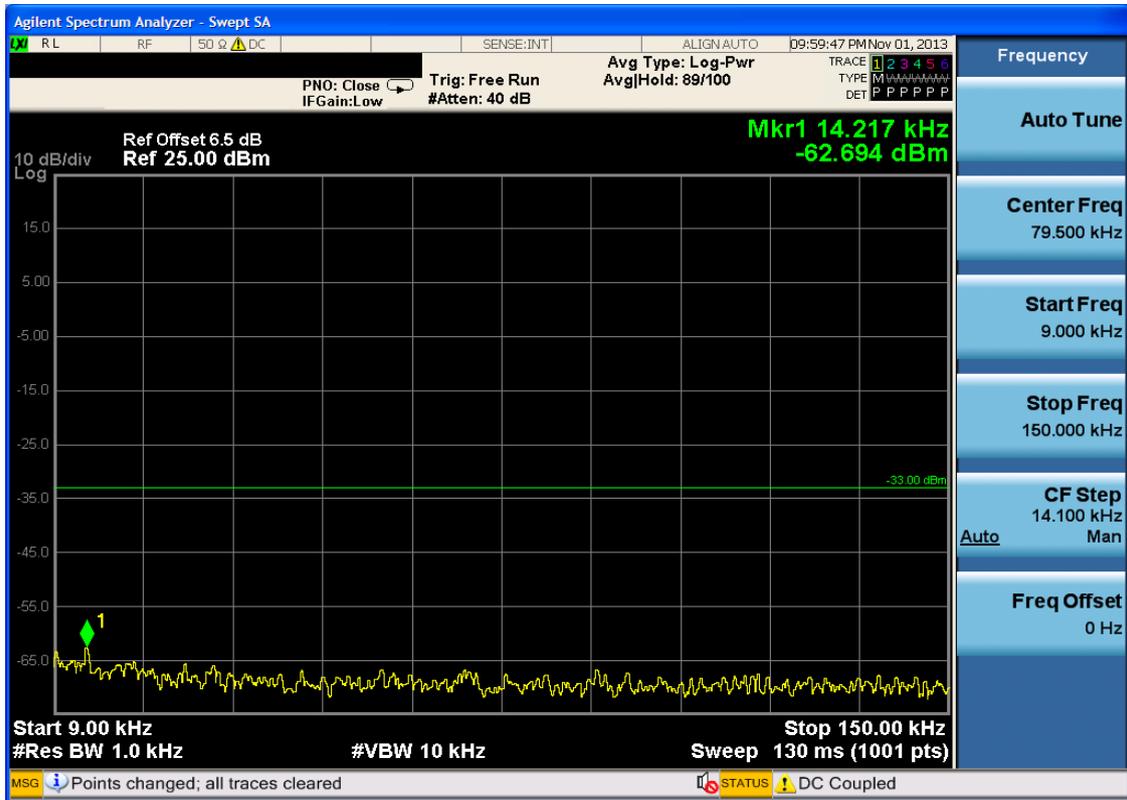


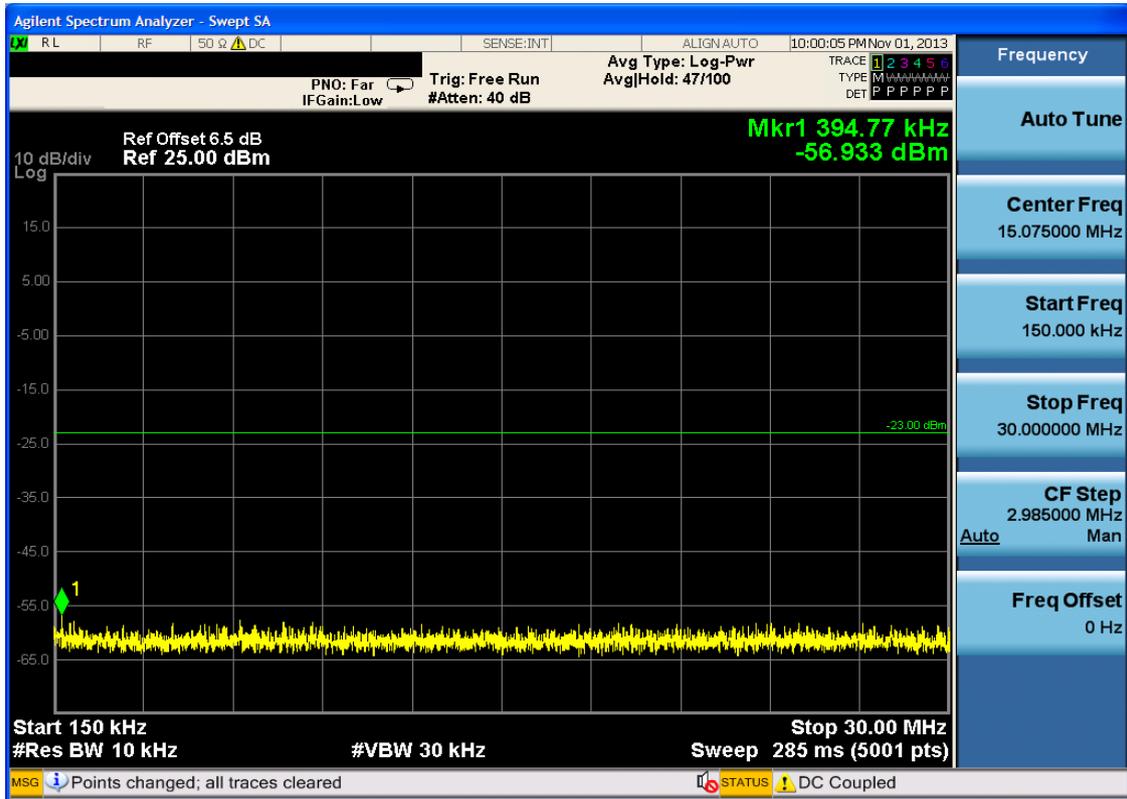


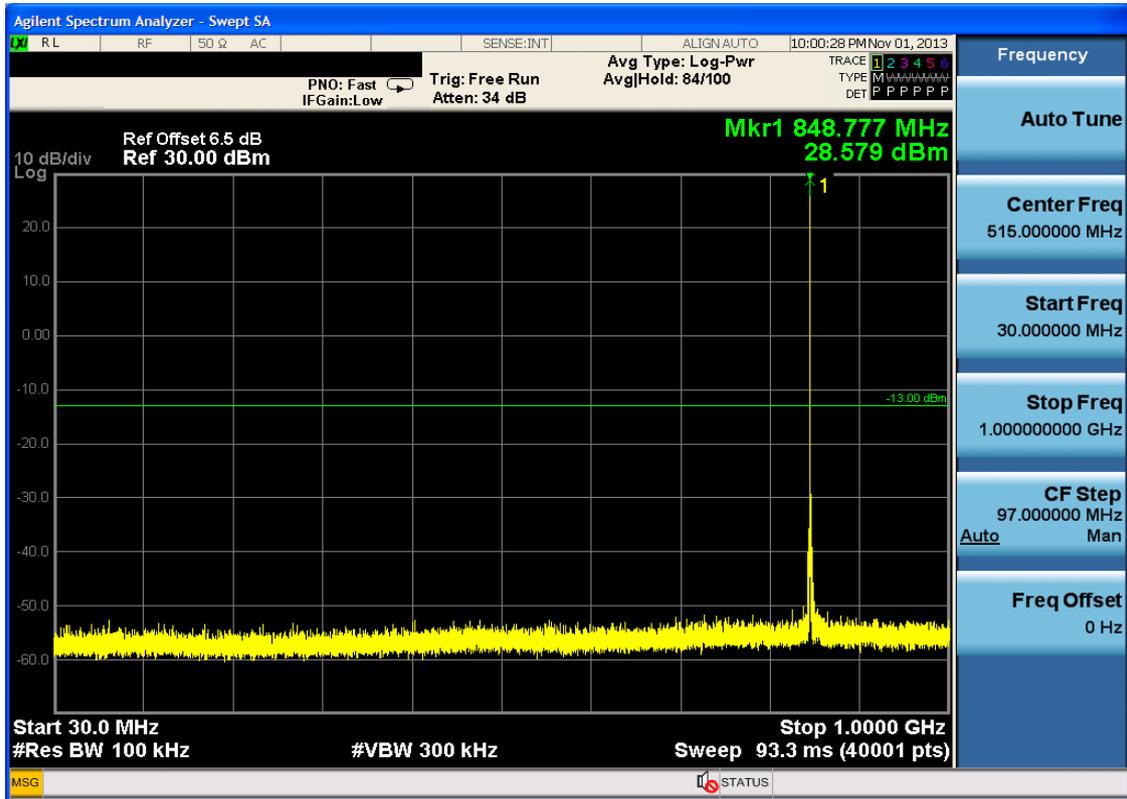


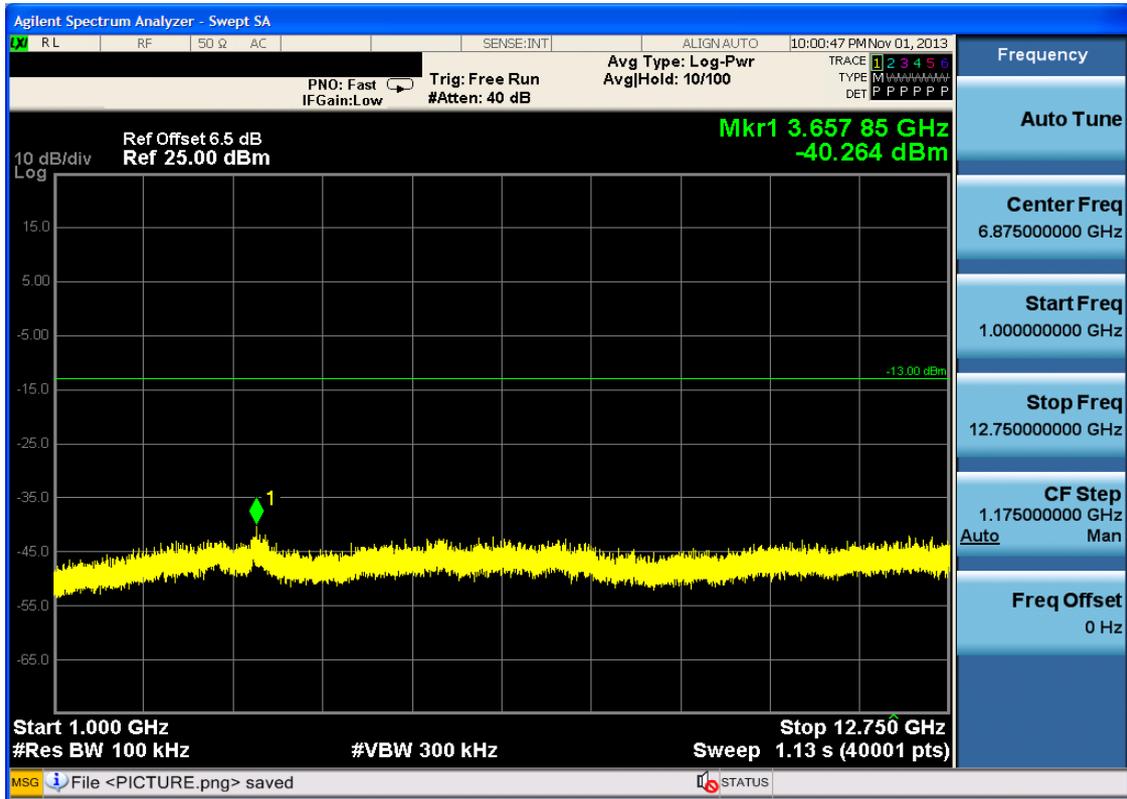


6.1.1.2.3 Test Channel = HCH





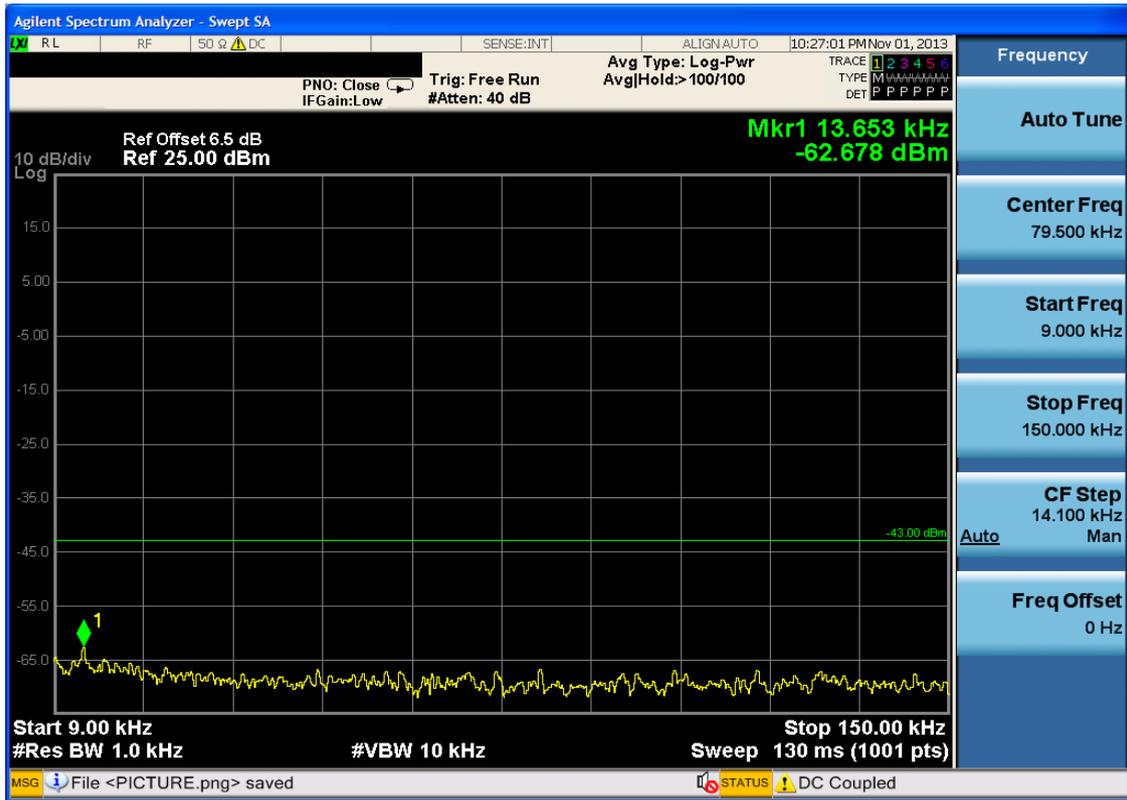


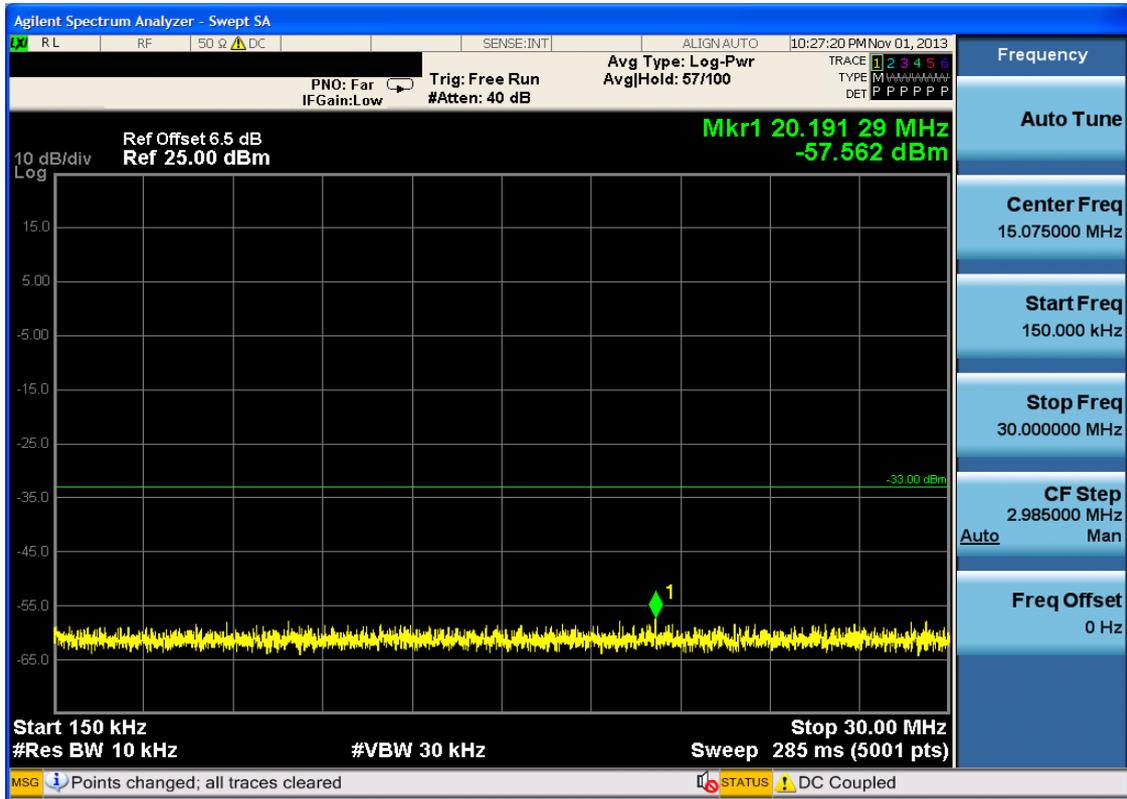


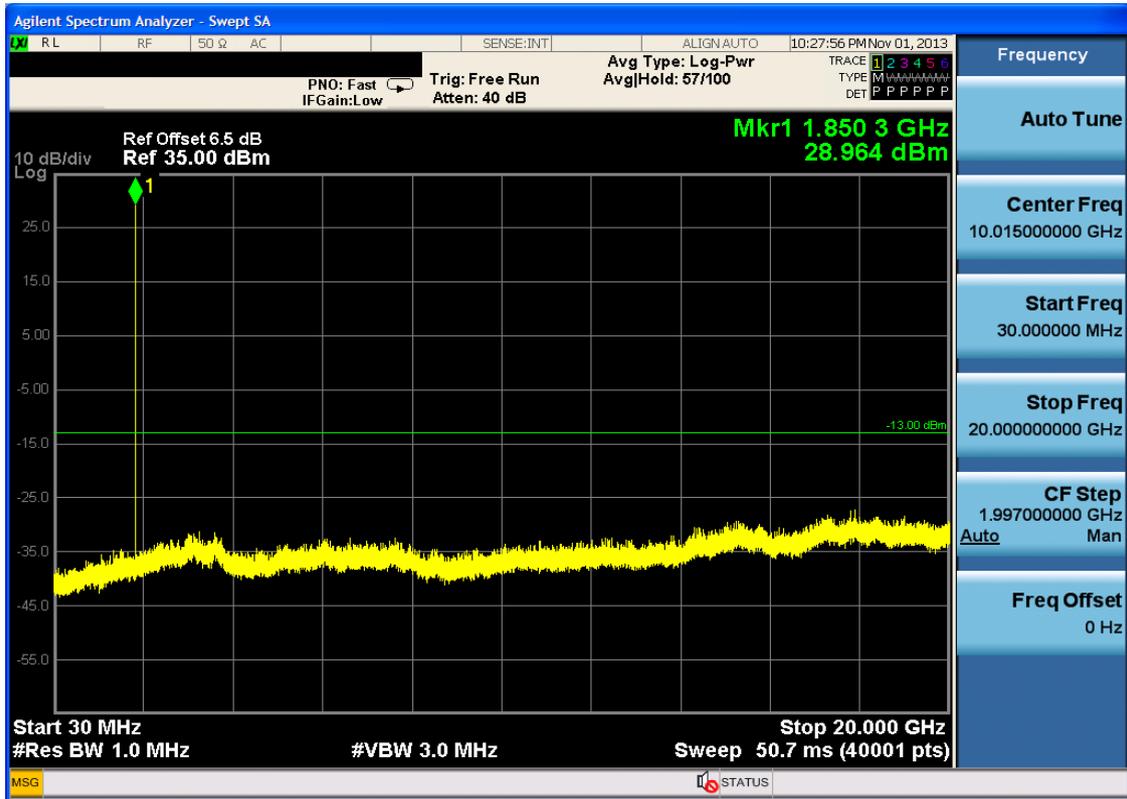
6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH



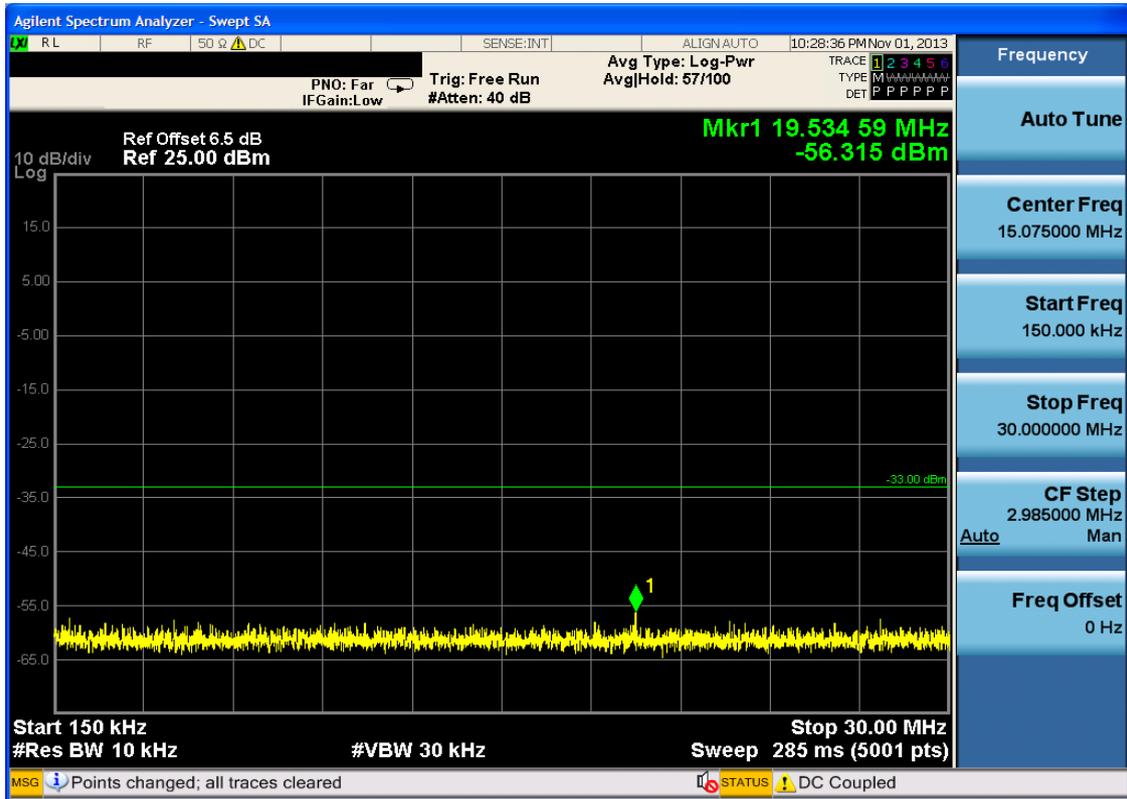


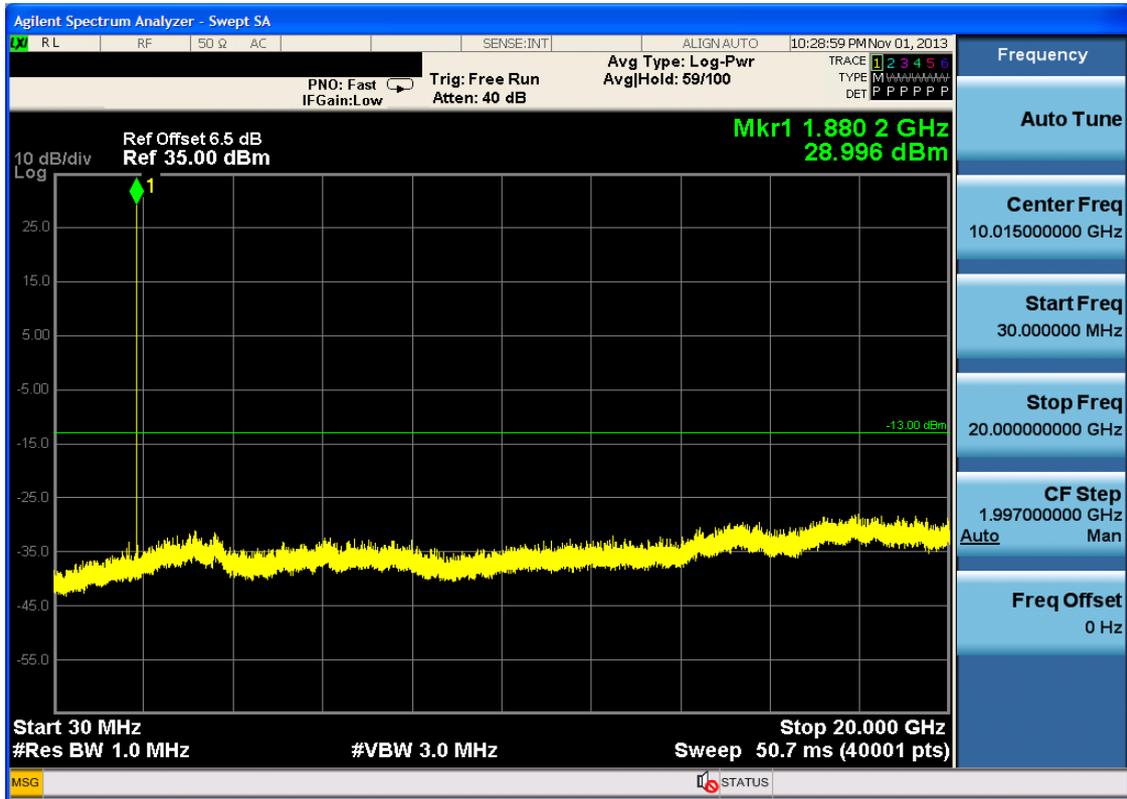




6.1.2.1.2 Test Channel = MCH



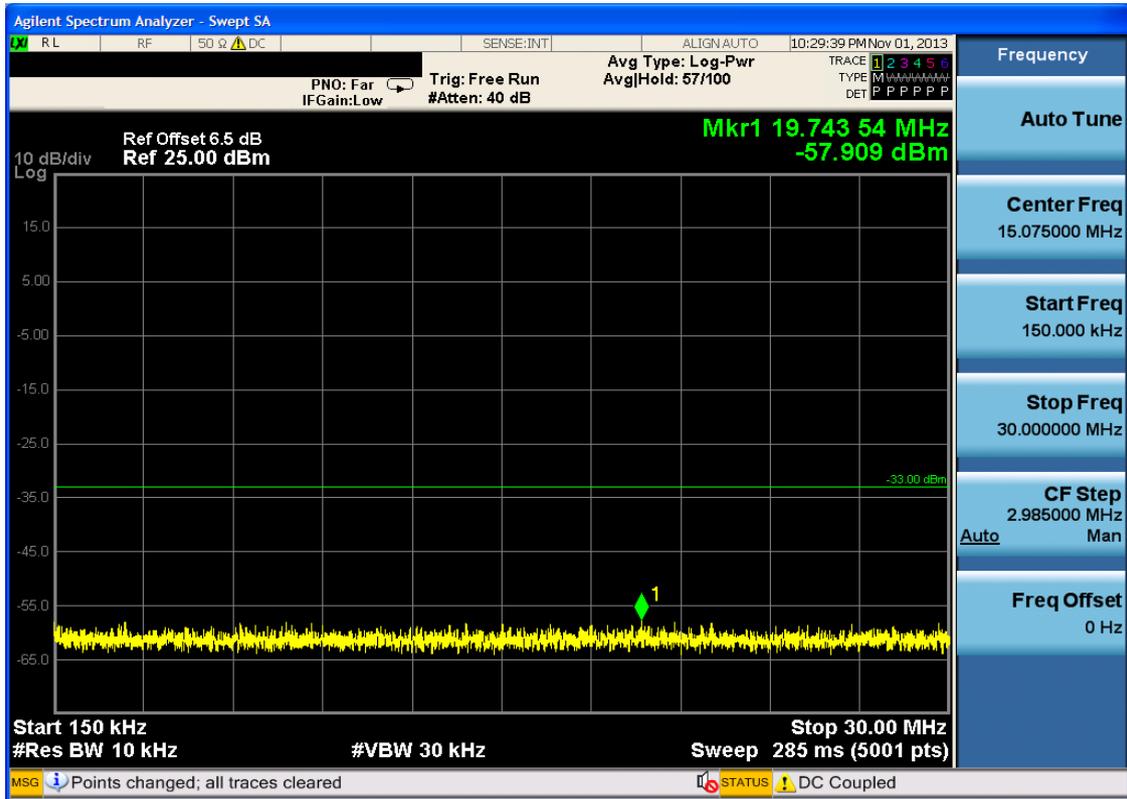






6.1.2.1.3 Test Channel = HCH



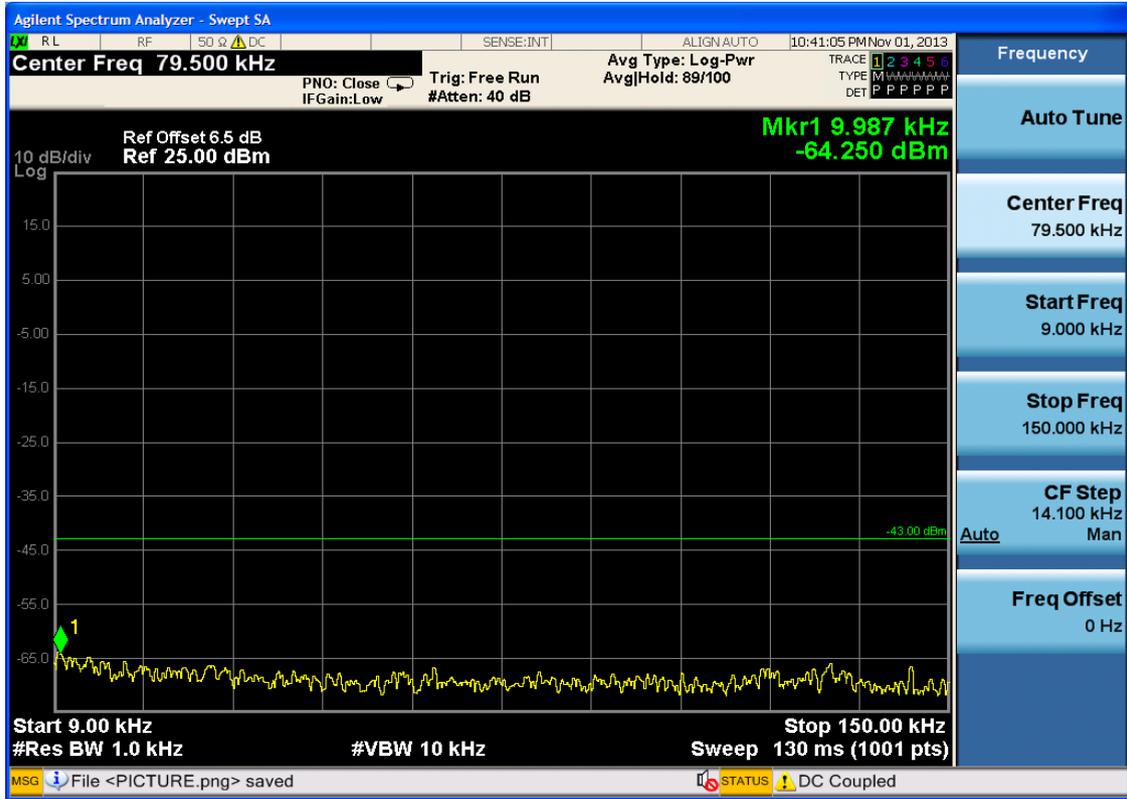


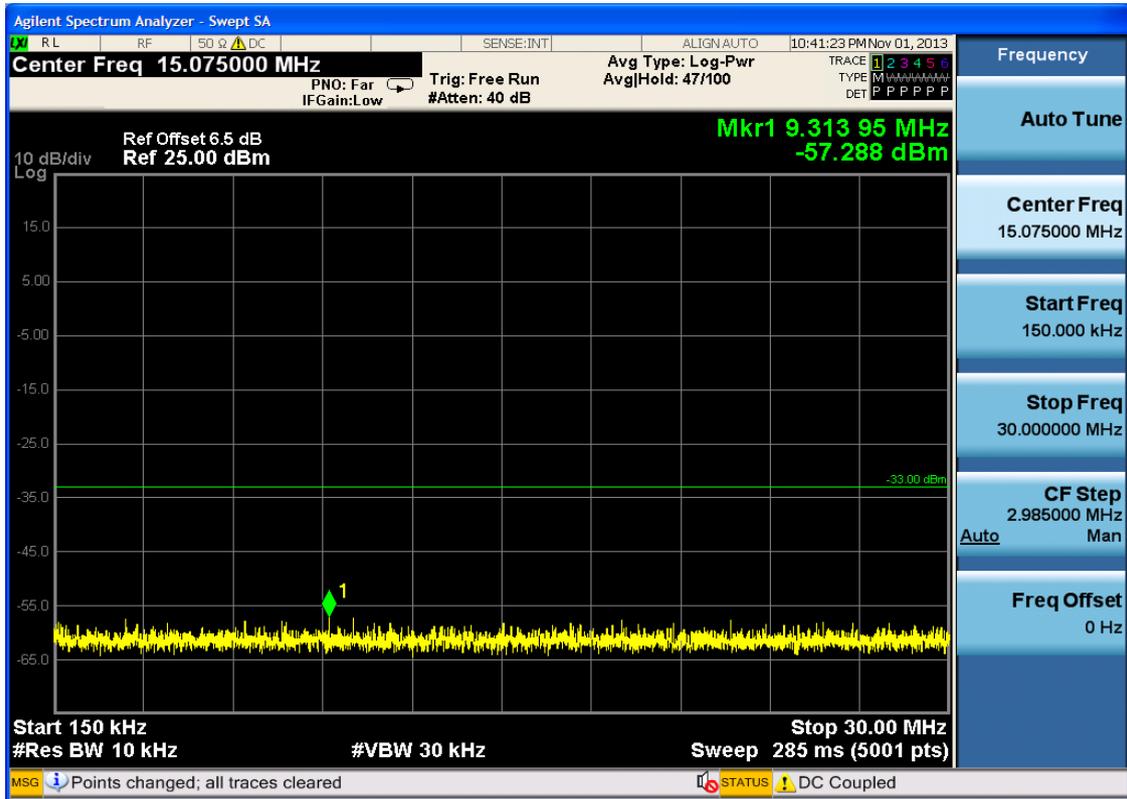




6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH



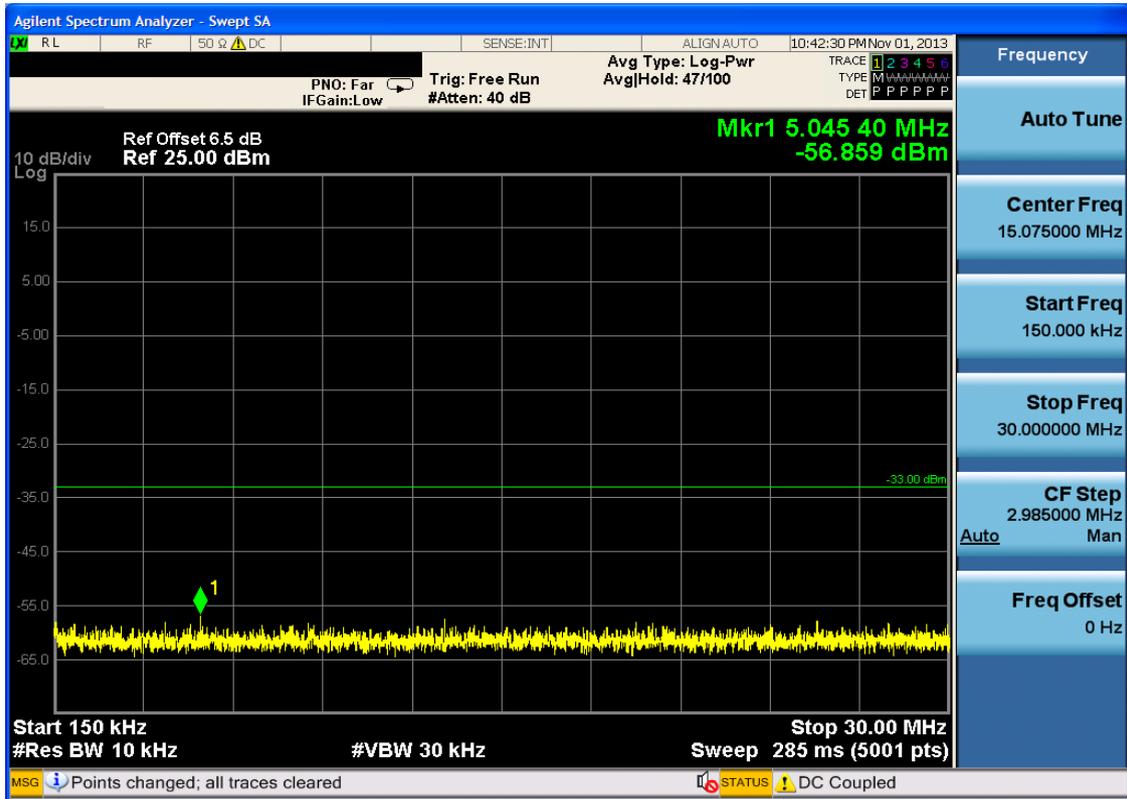






6.1.2.2.2 Test Channel = MCH



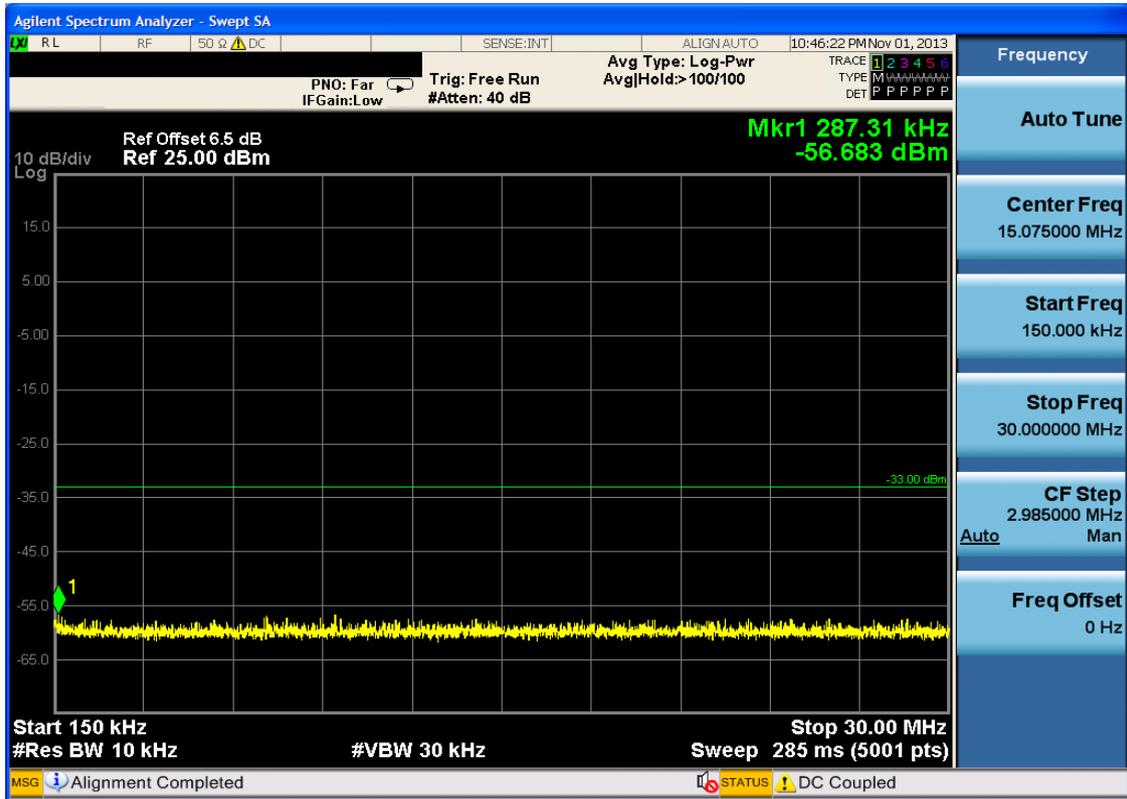


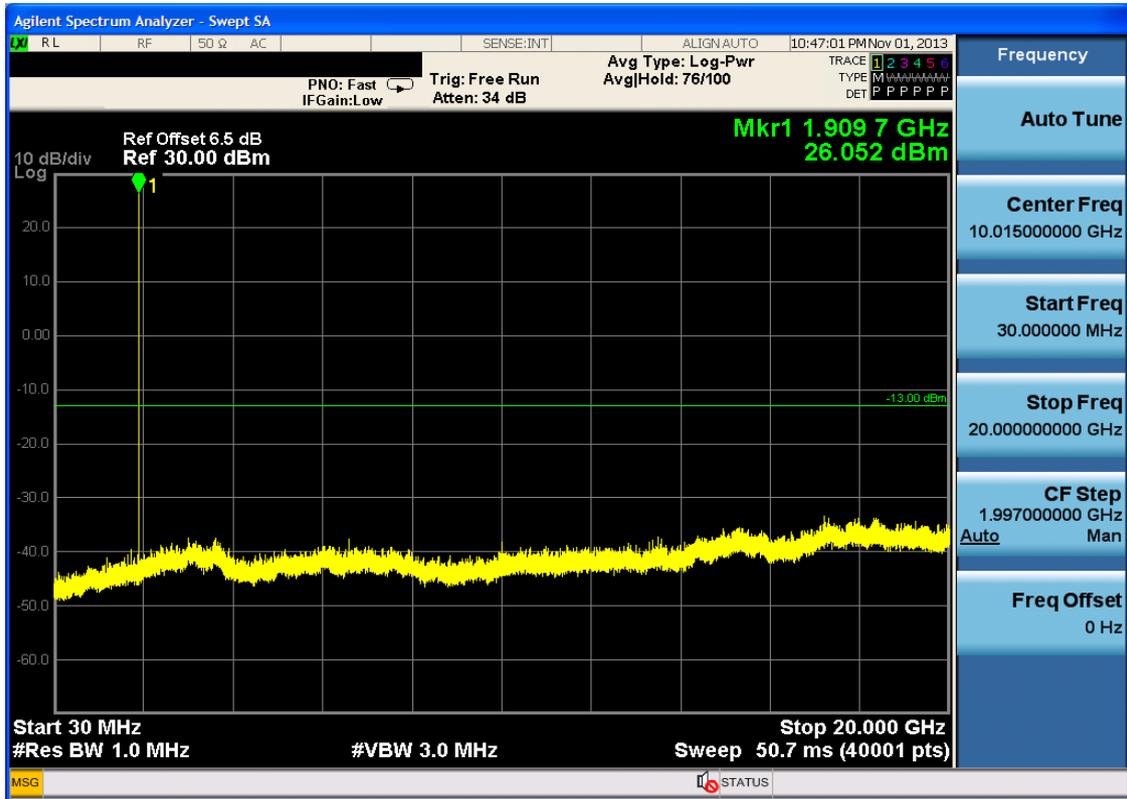




6.1.2.2.3 Test Channel = HCH







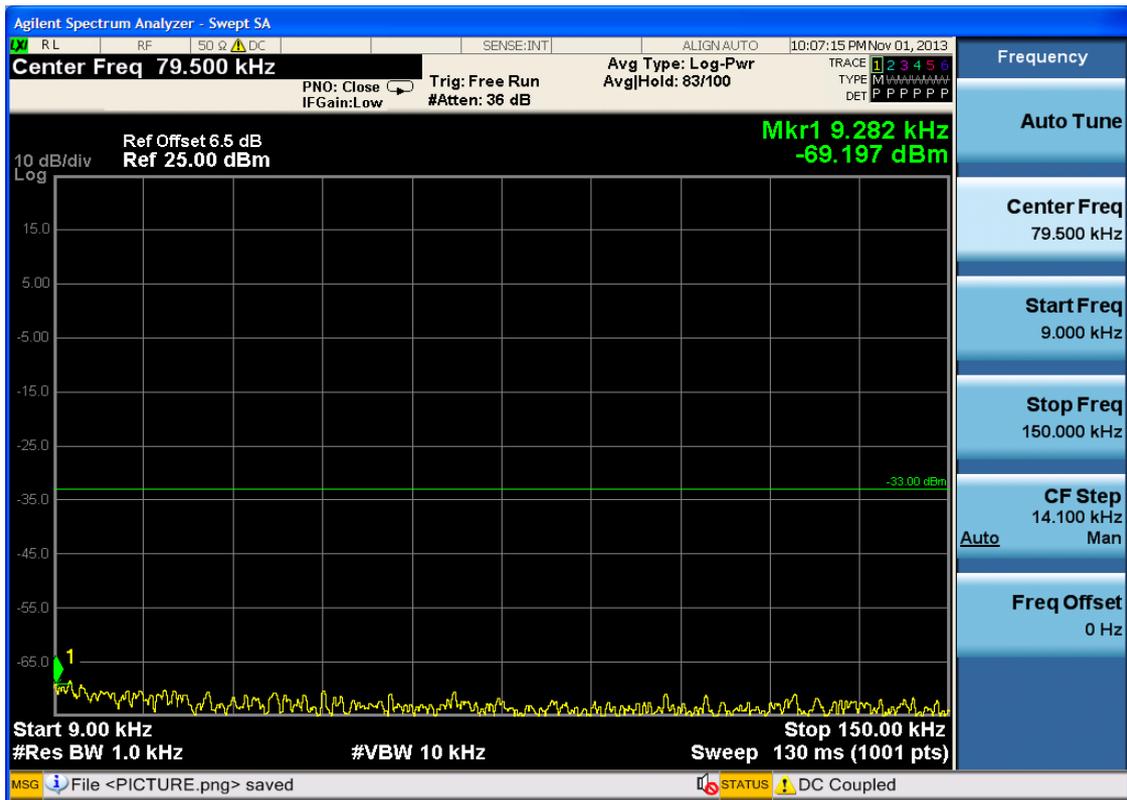


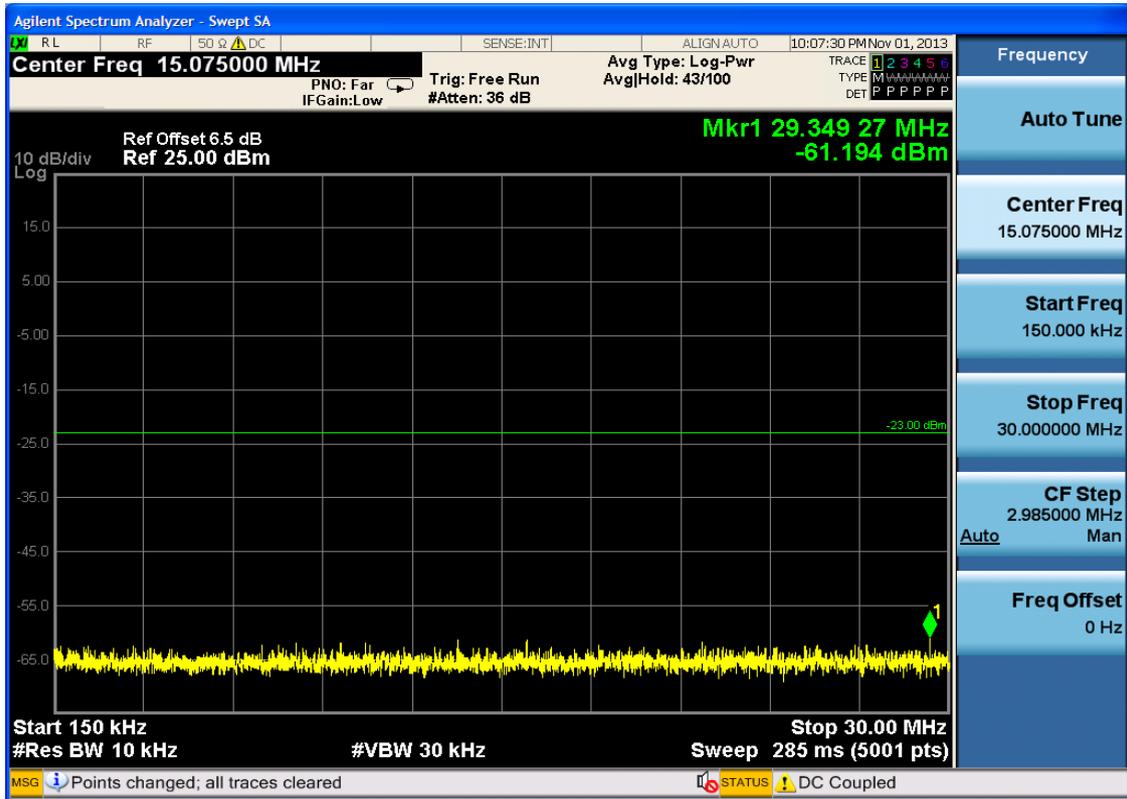
6.2 For UMTS

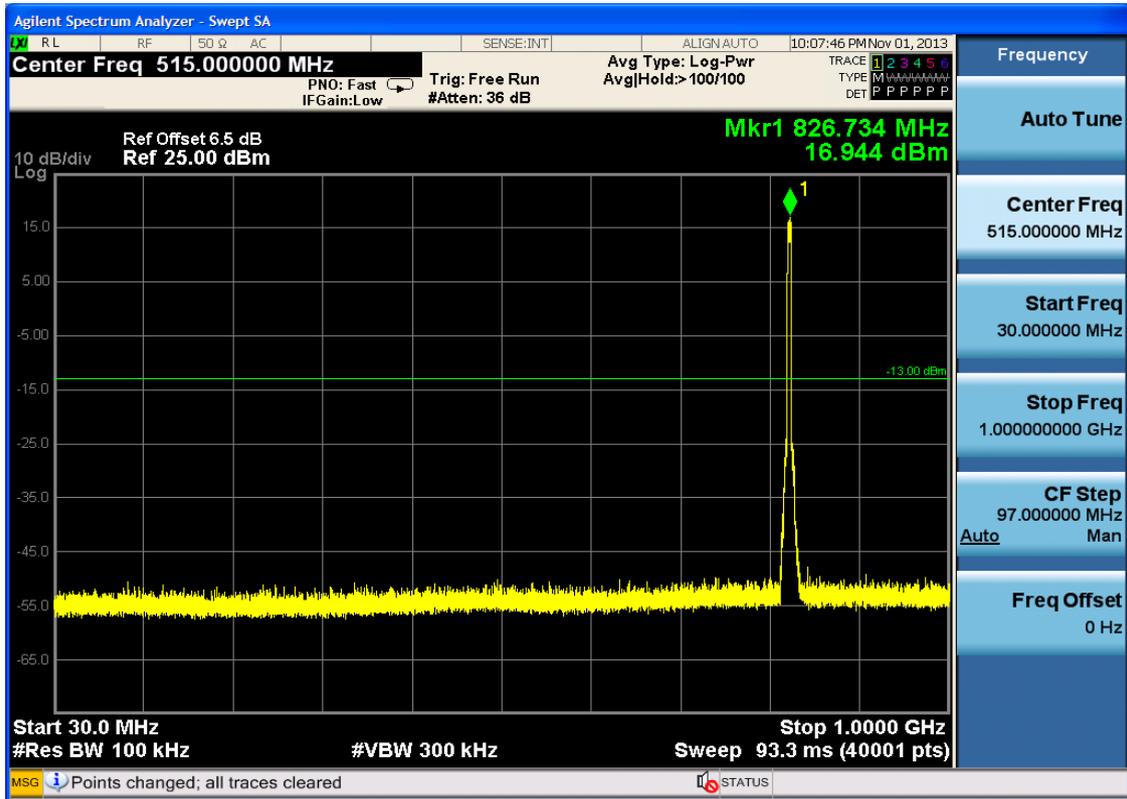
6.2.1 Test Band = WCDMA850

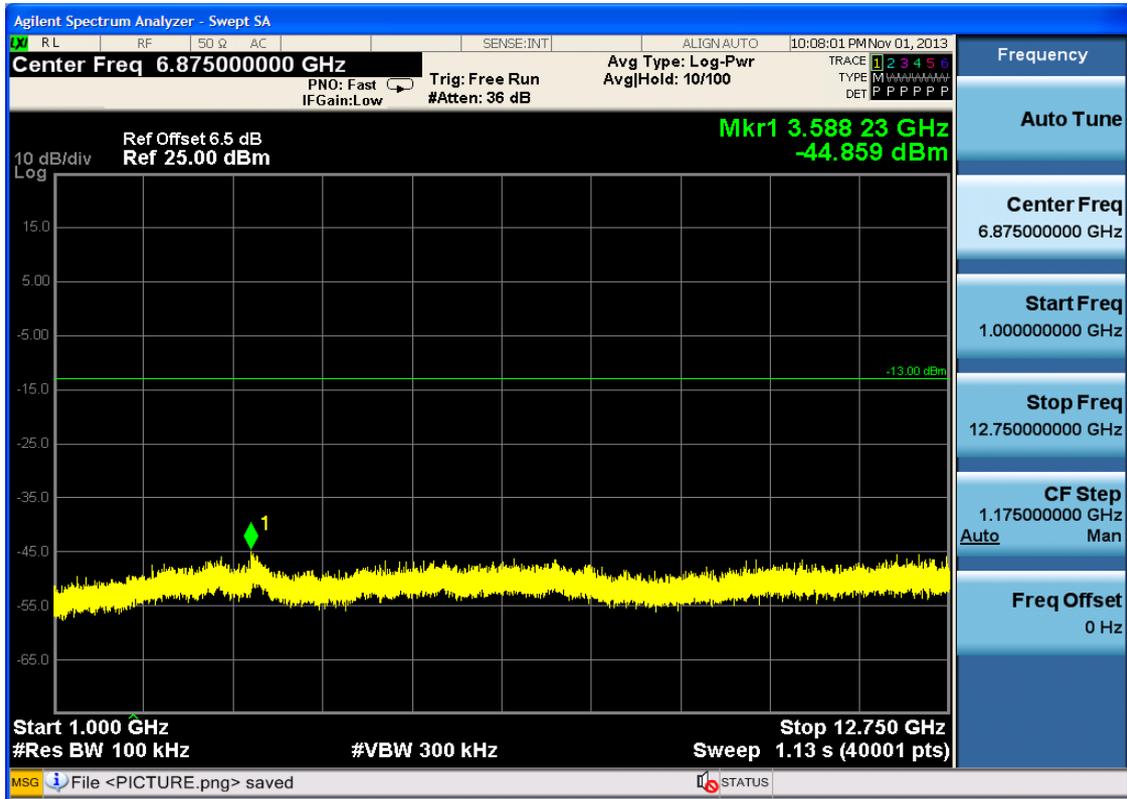
6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



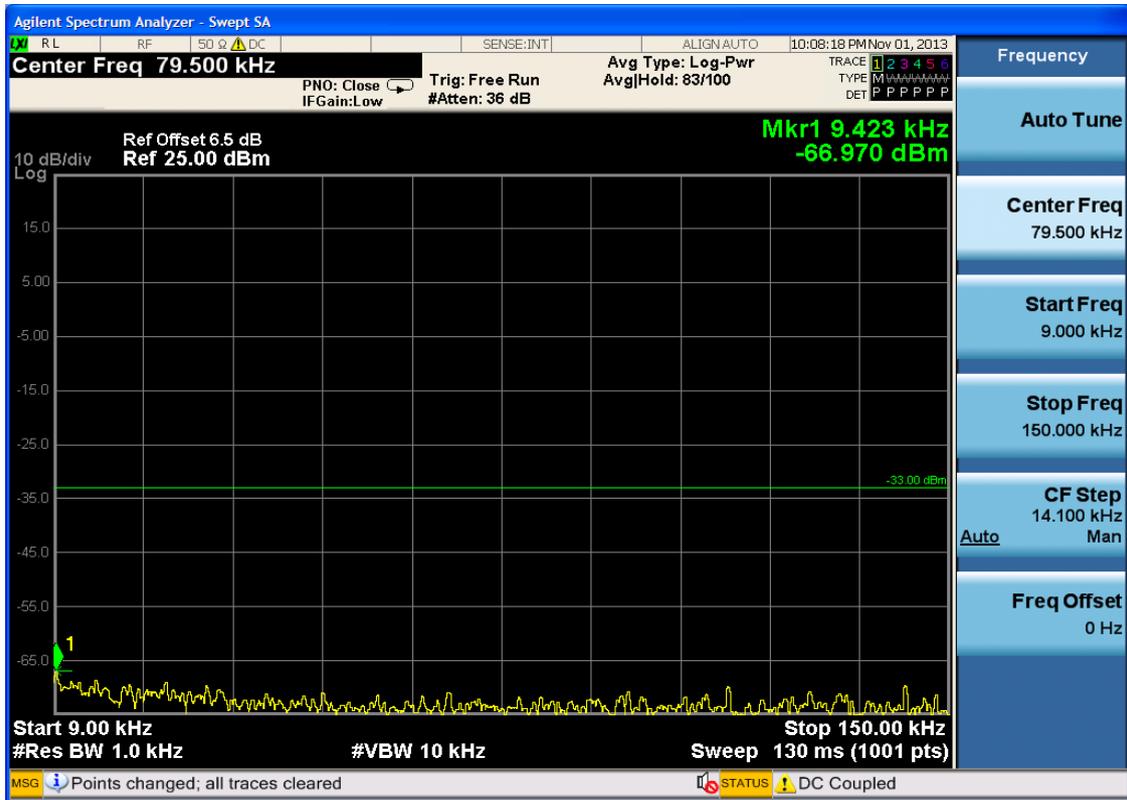


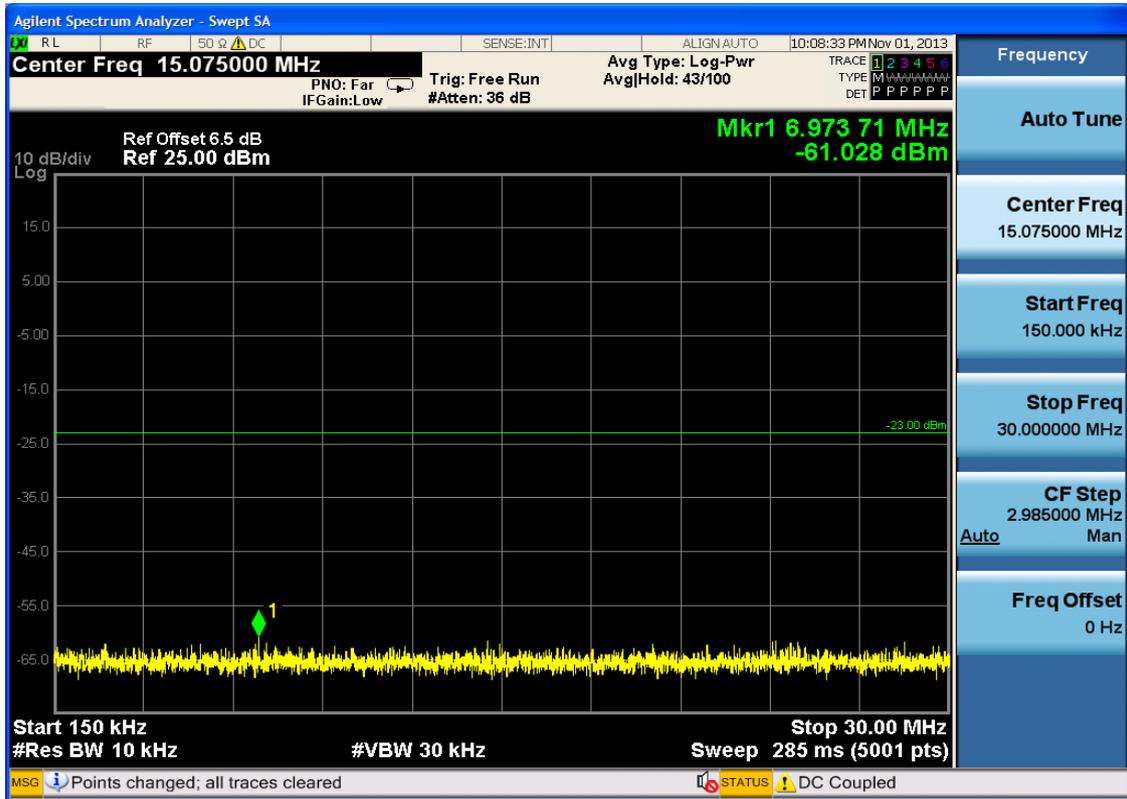


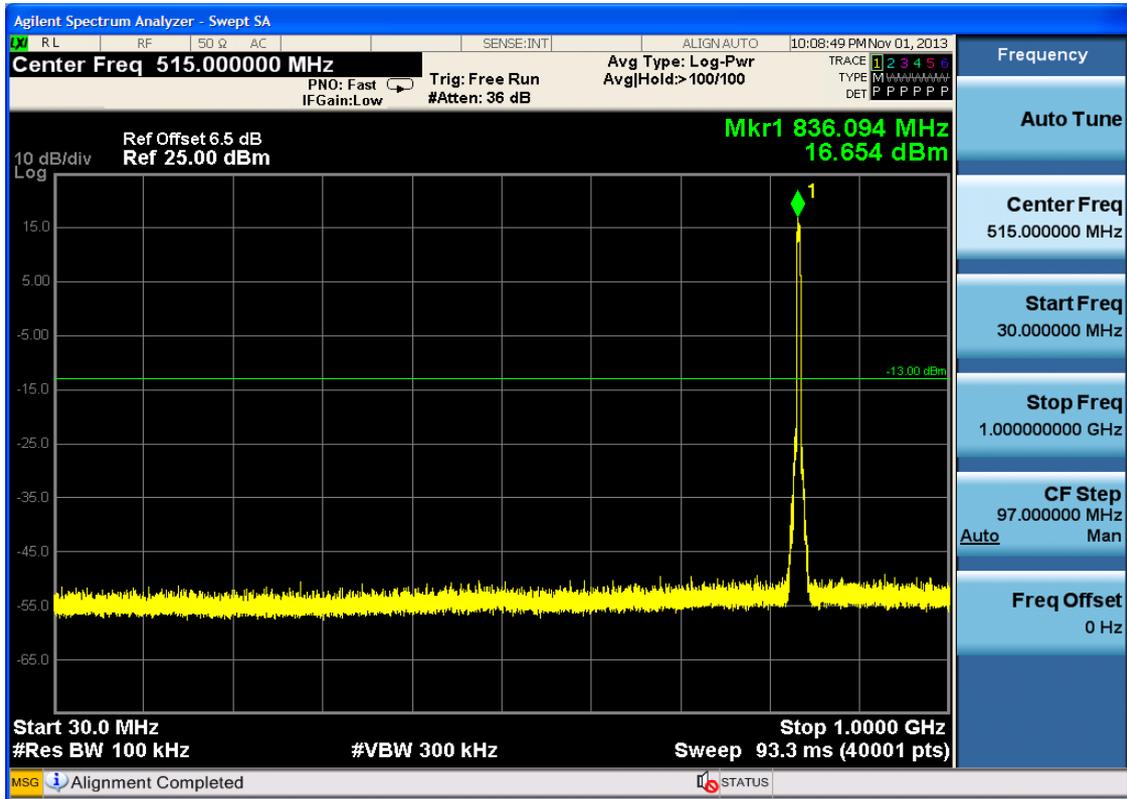


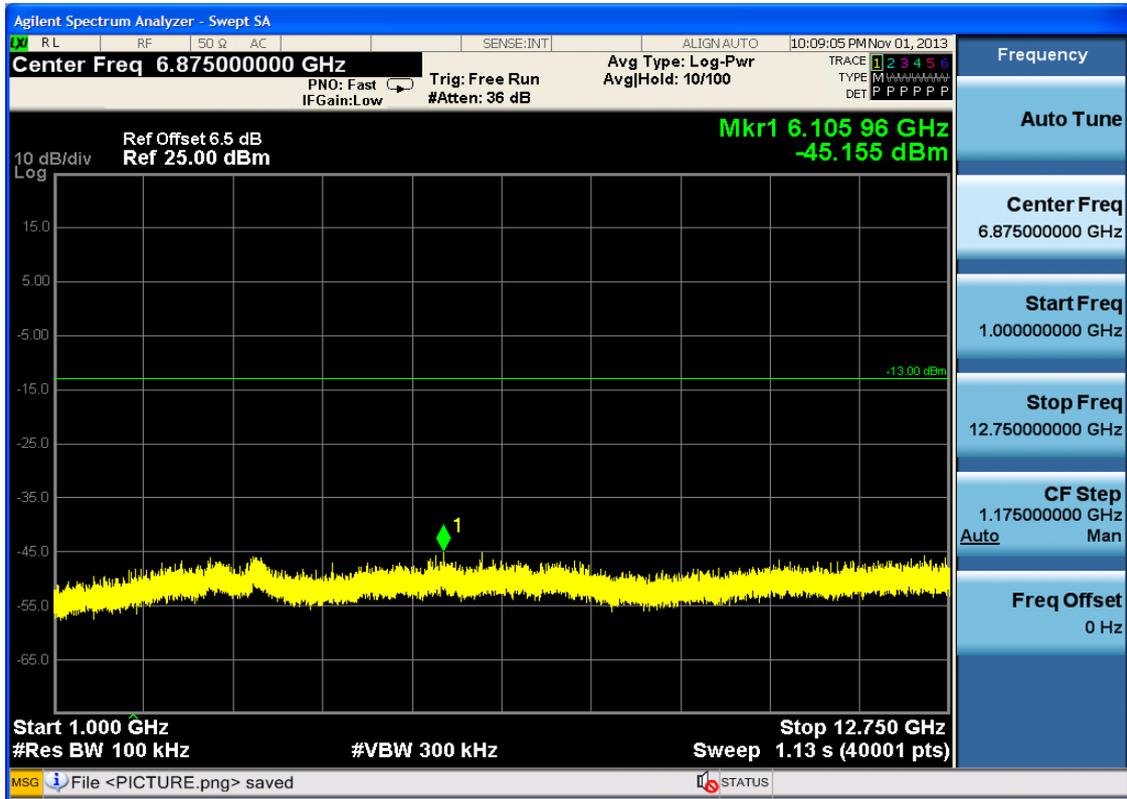


6.2.1.1.2 Test Channel = MCH



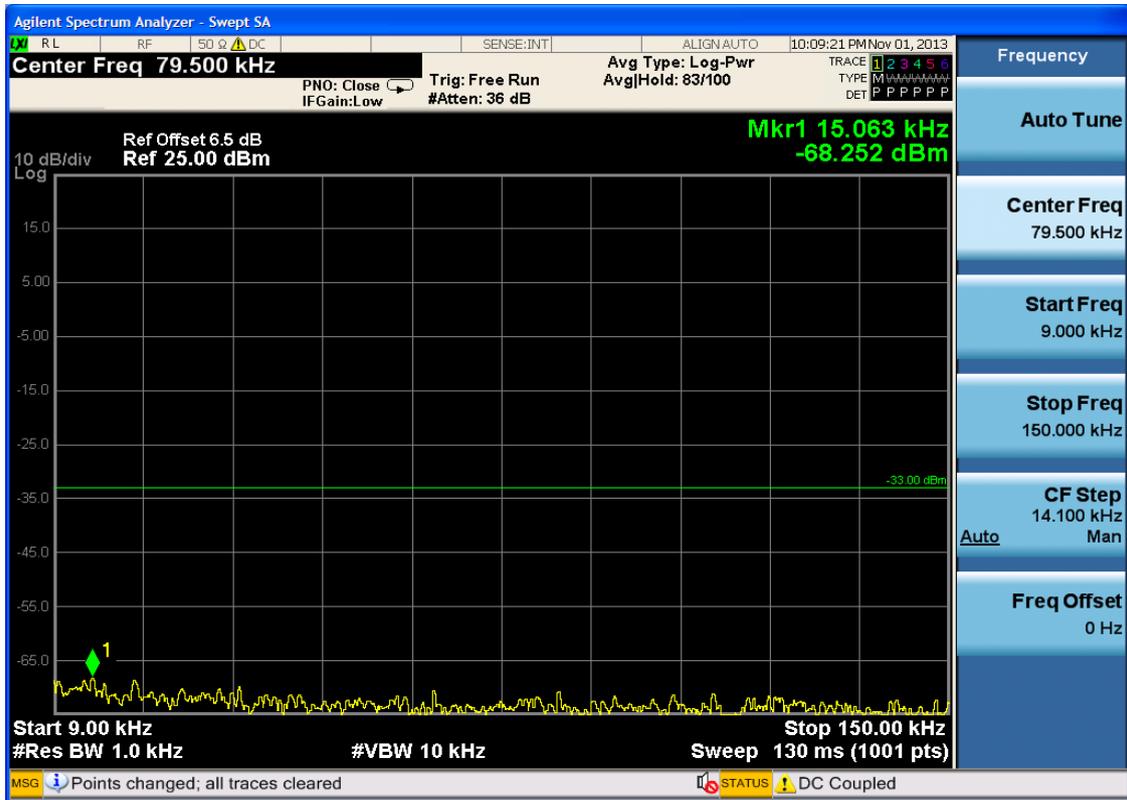


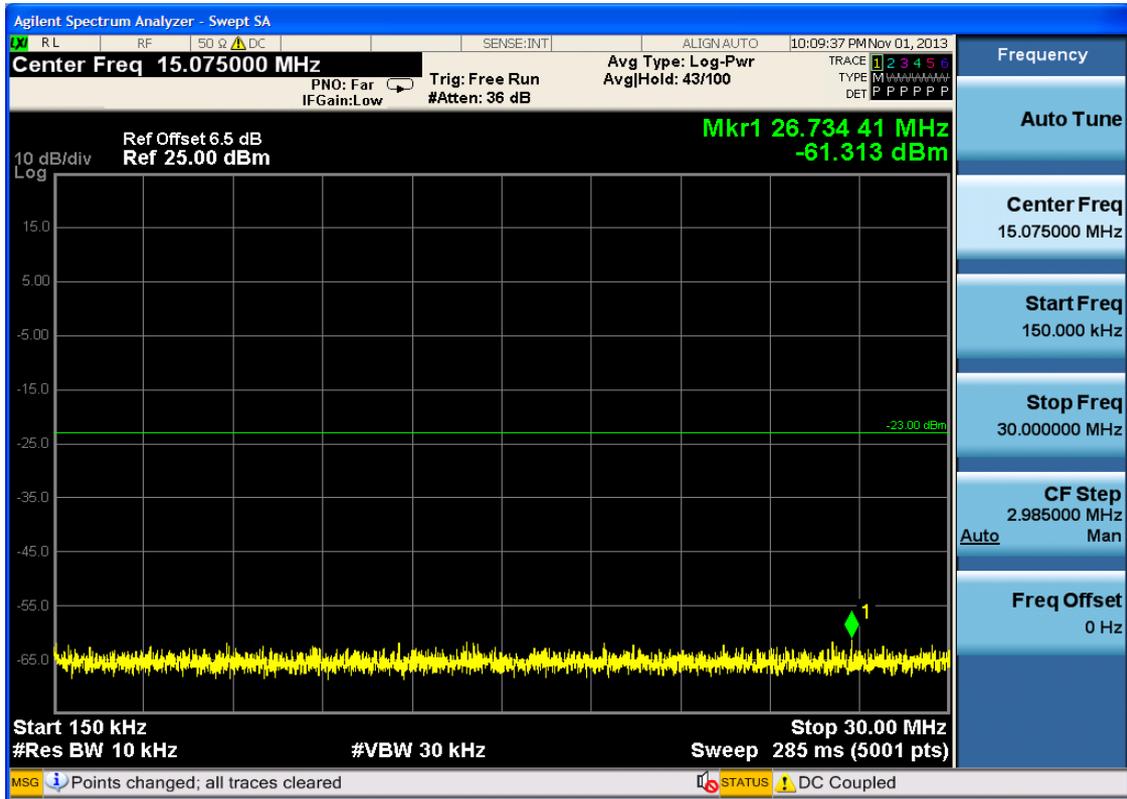


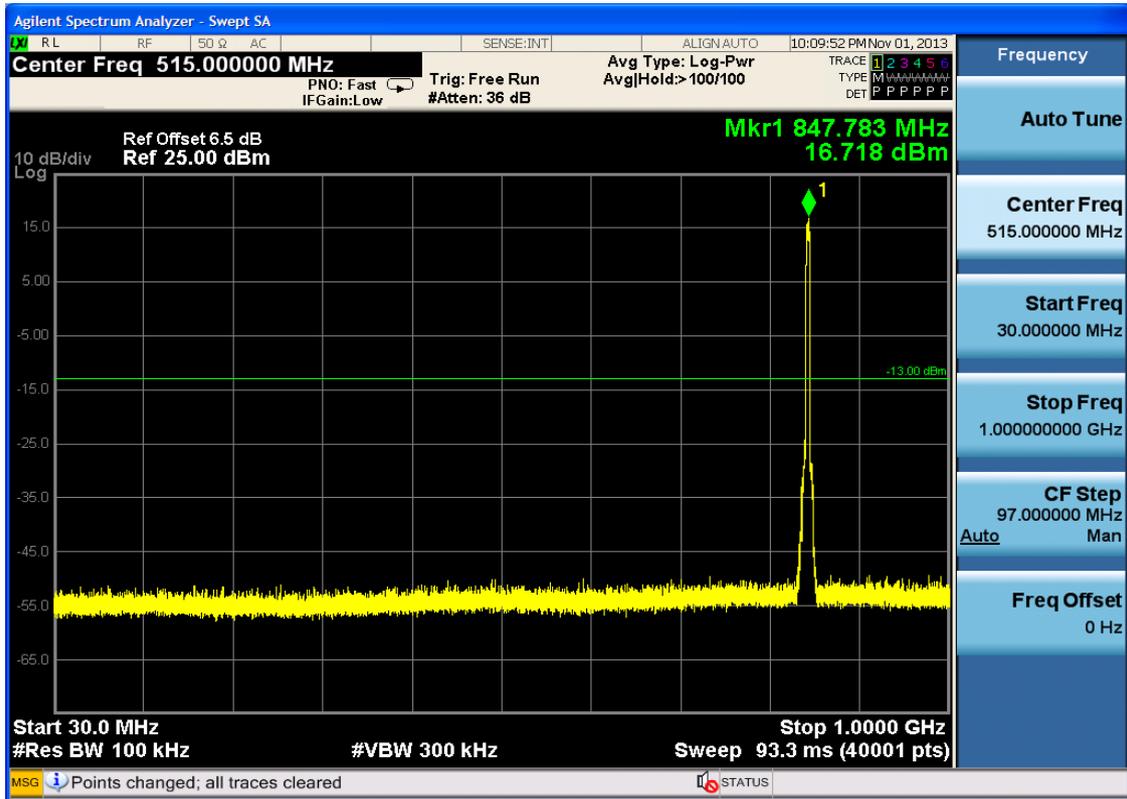


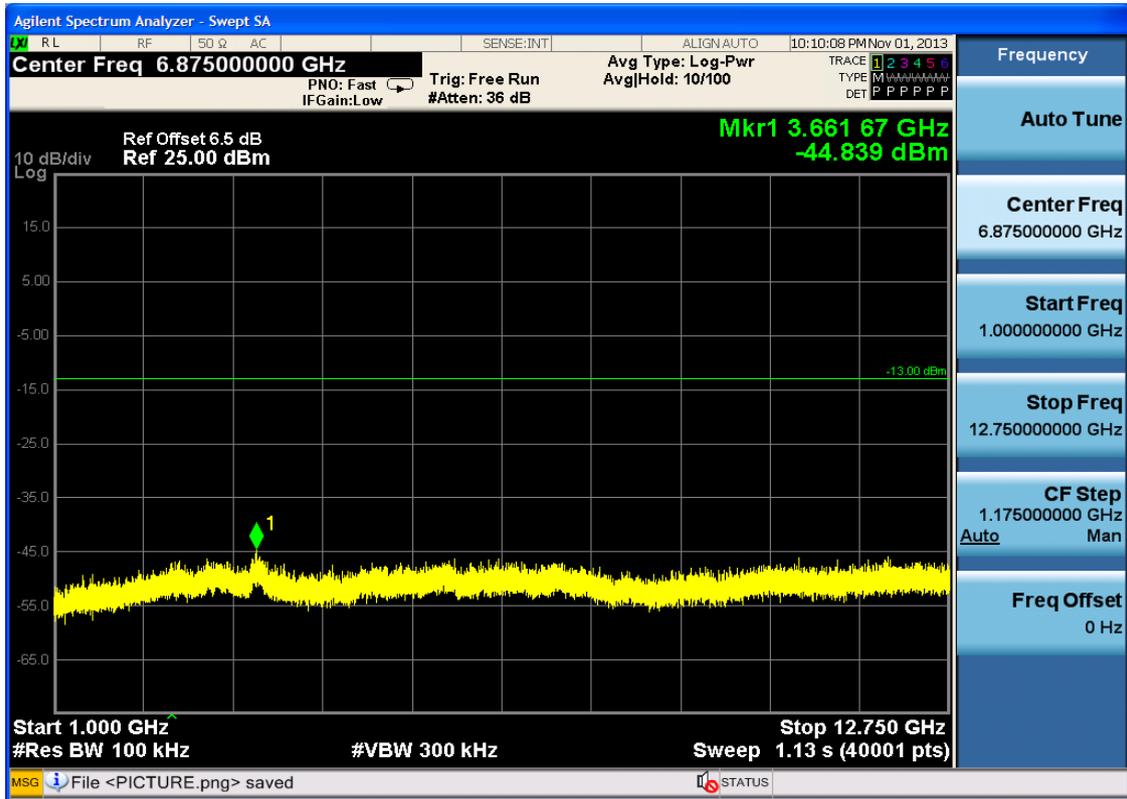


6.2.1.1.3 Test Channel = HCH







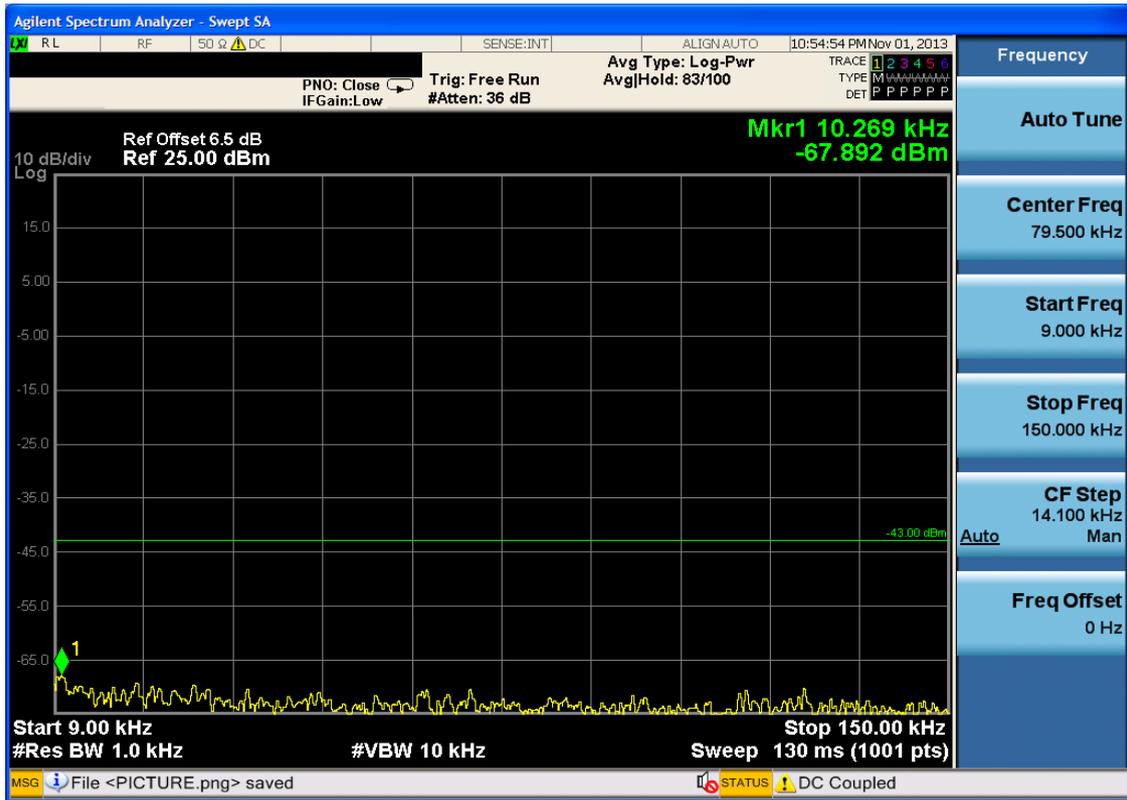


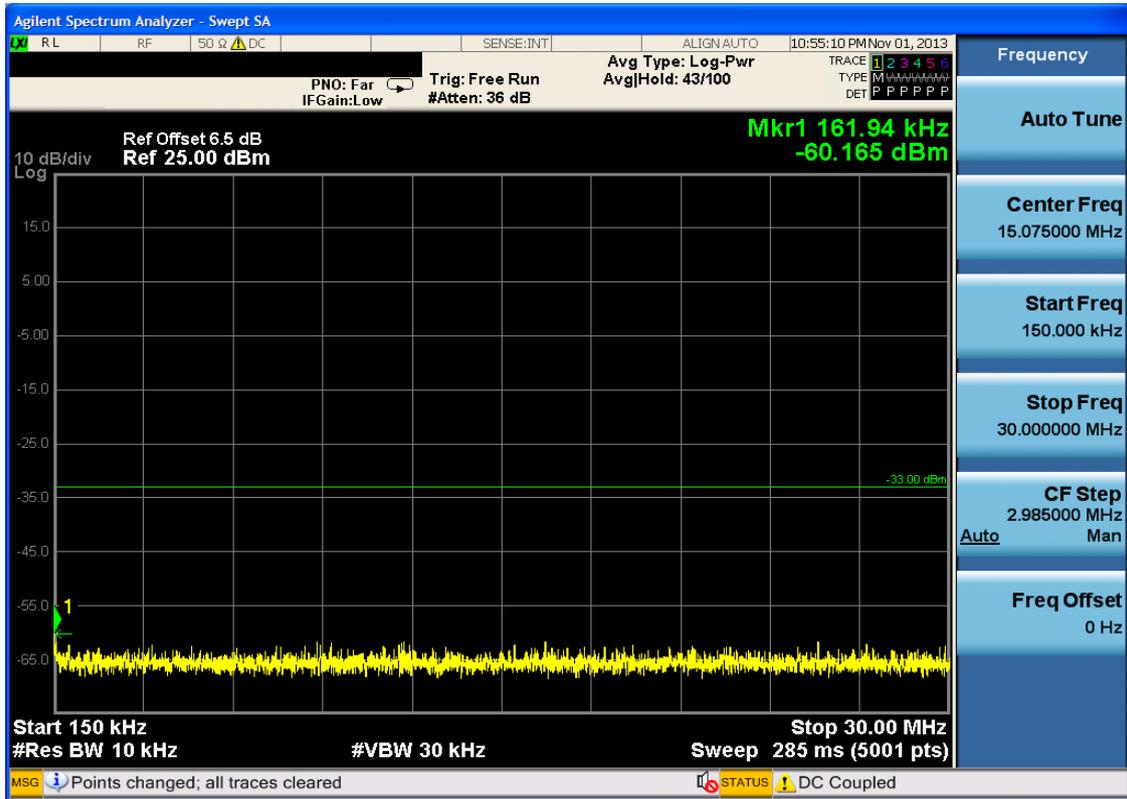


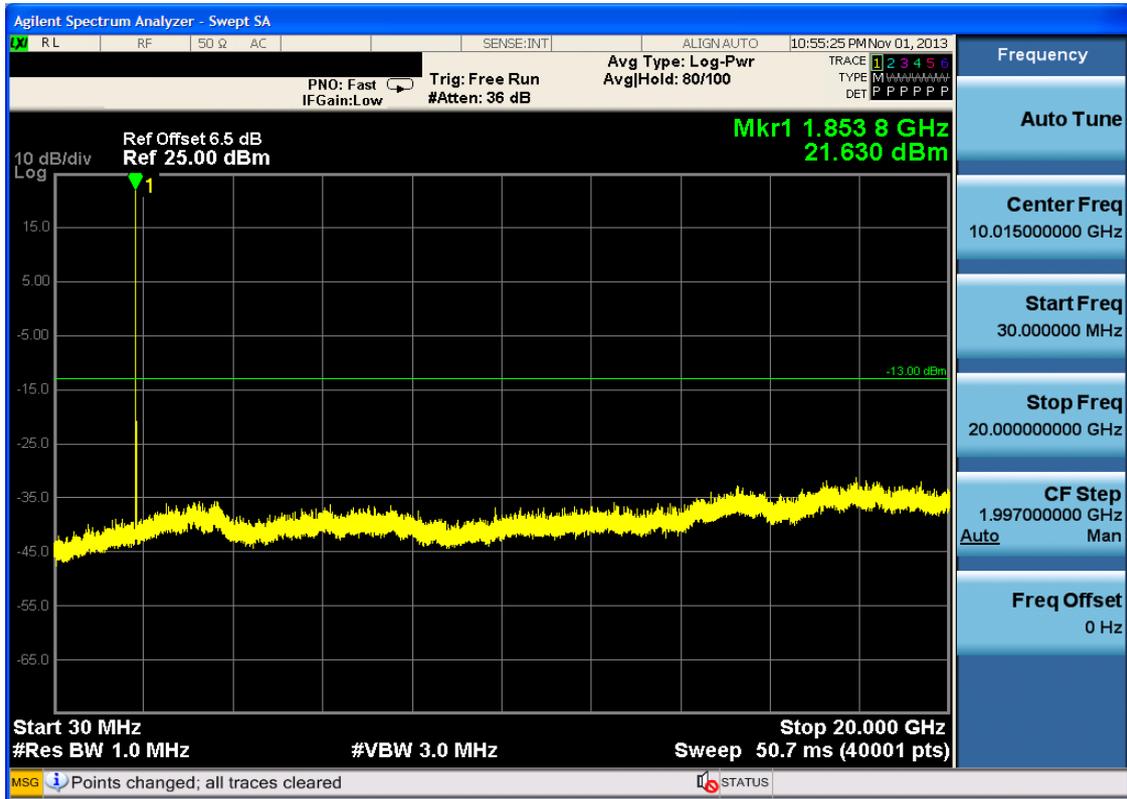
6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH



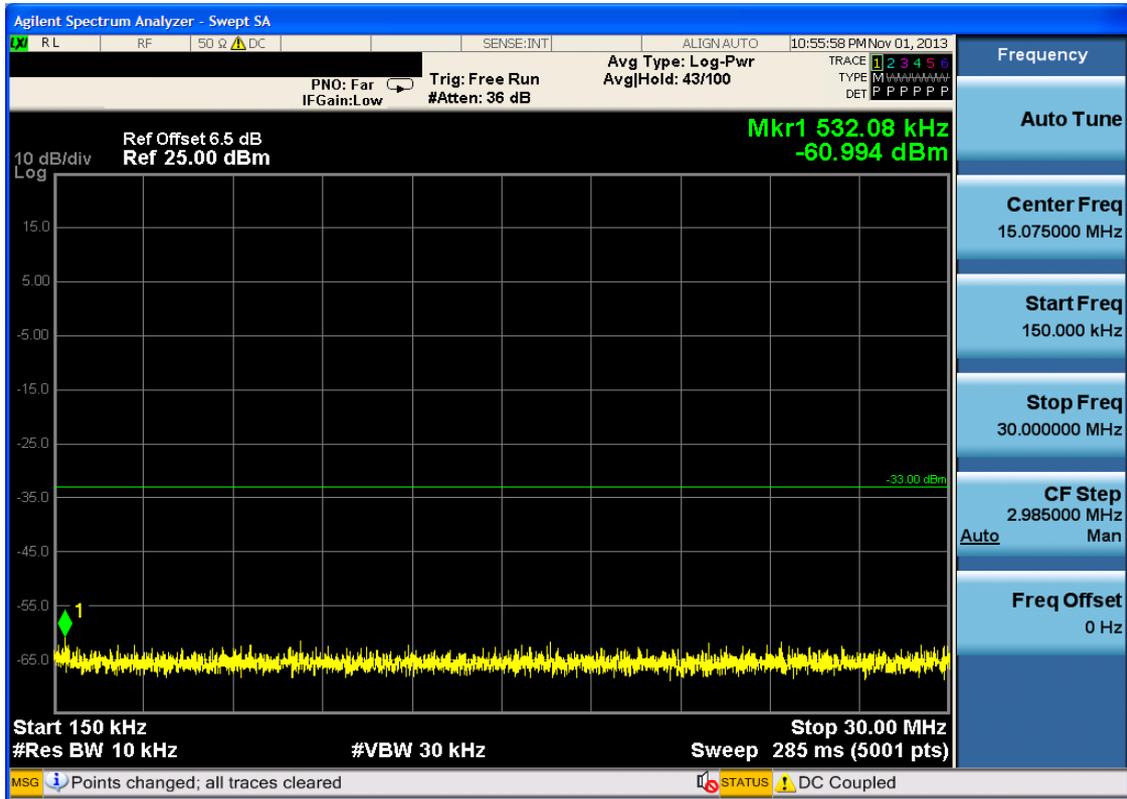


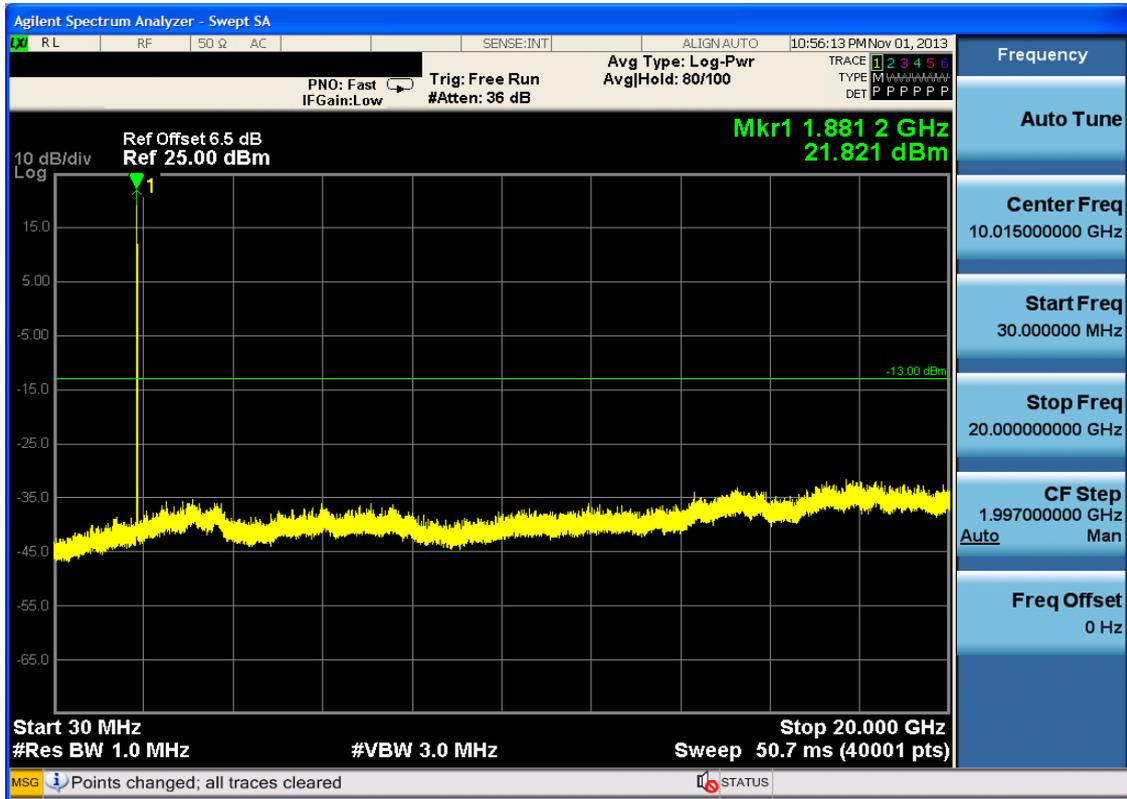




6.2.2.1.2 Test Channel = MCH



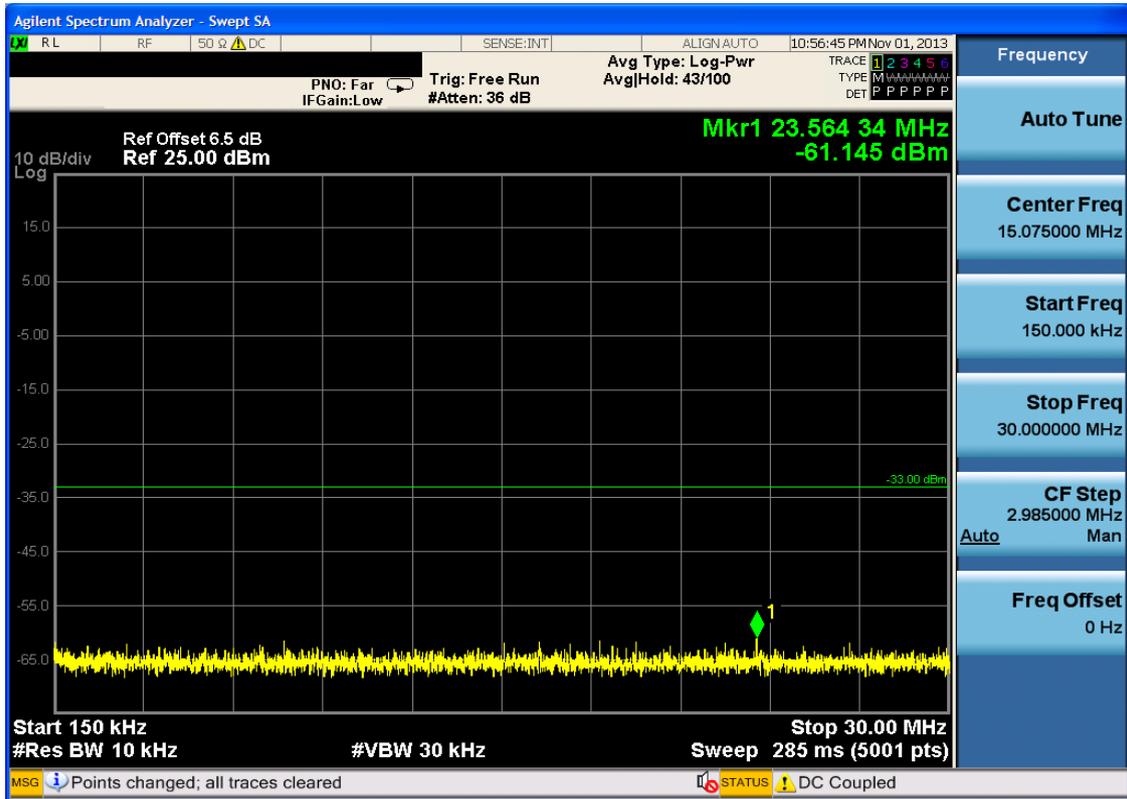


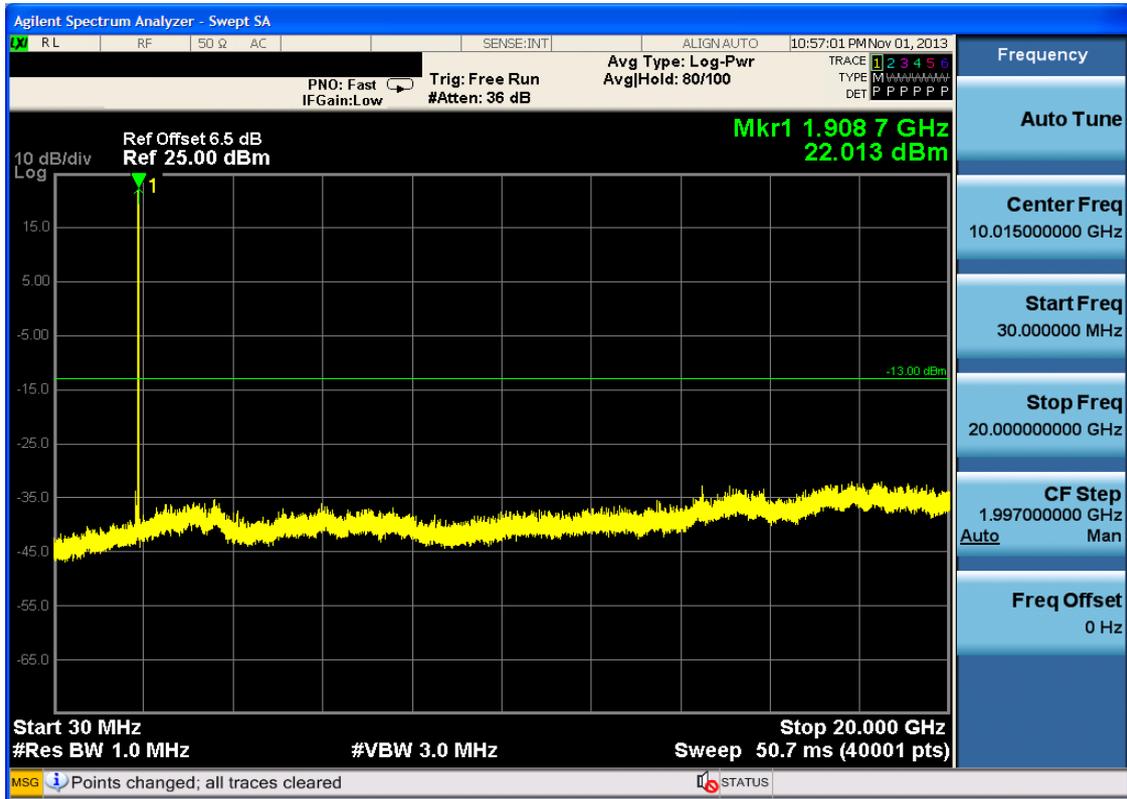




6.2.2.1.3 Test Channel = HCH







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

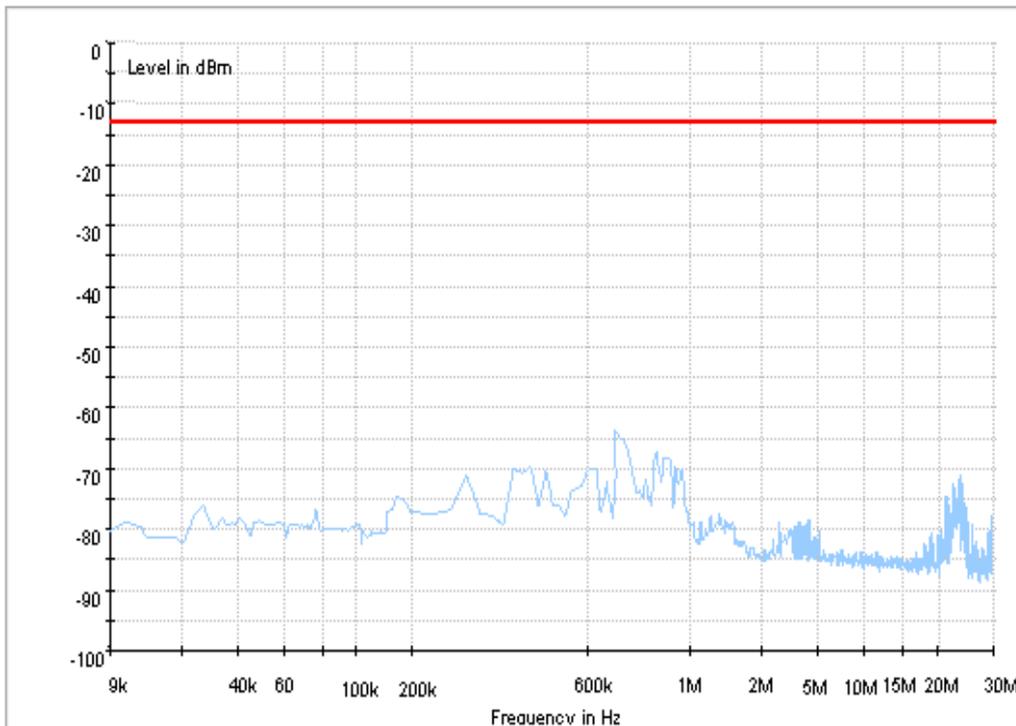
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

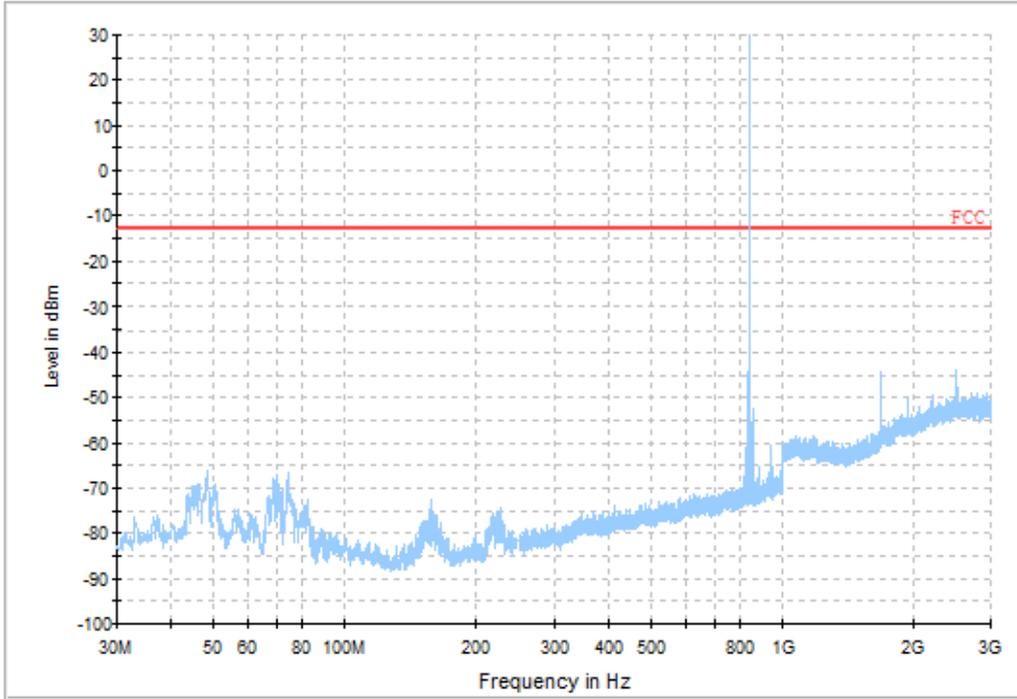
7.1 For GSM

7.1.1 Test Band = GSM850

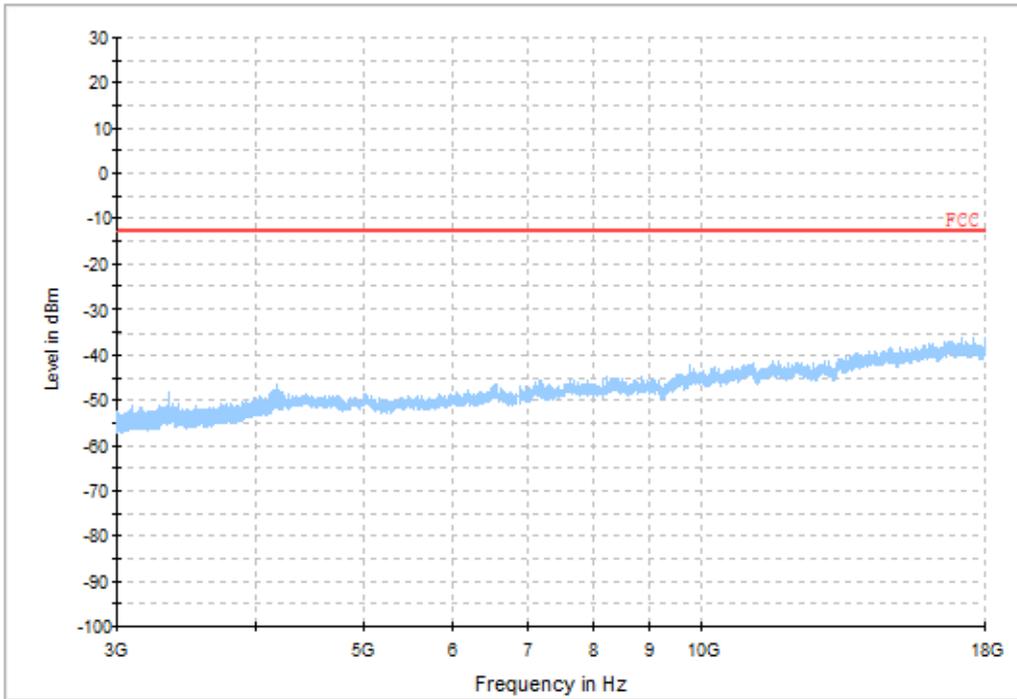
7.1.1.1 Test Mode = GSM/TM1



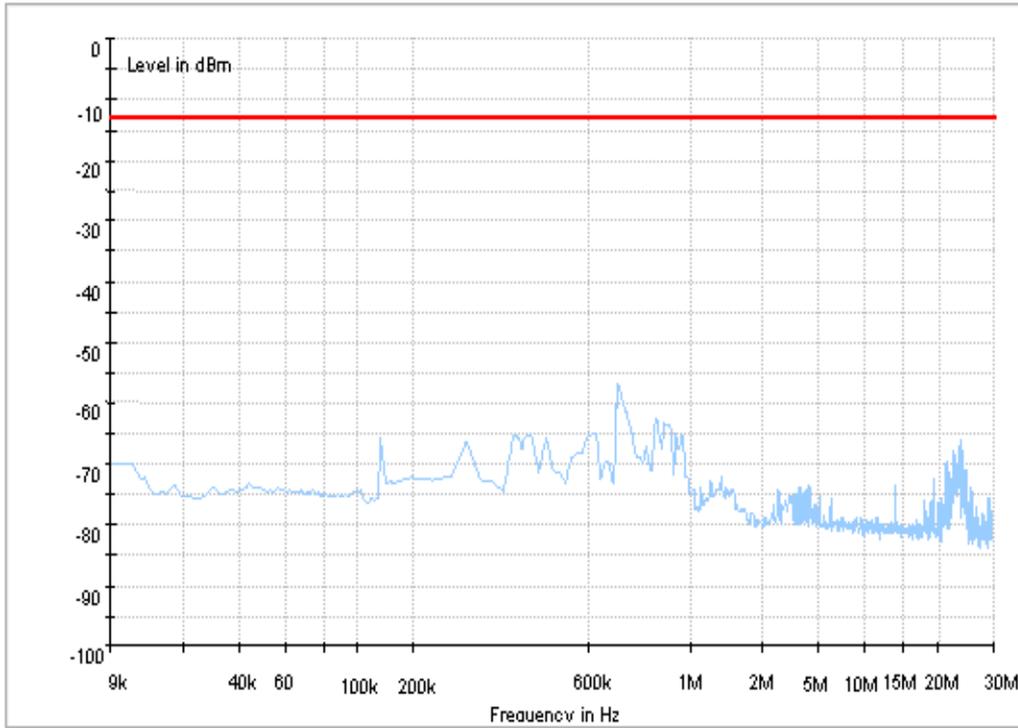
Copy of FCC PART22 GSM850_L



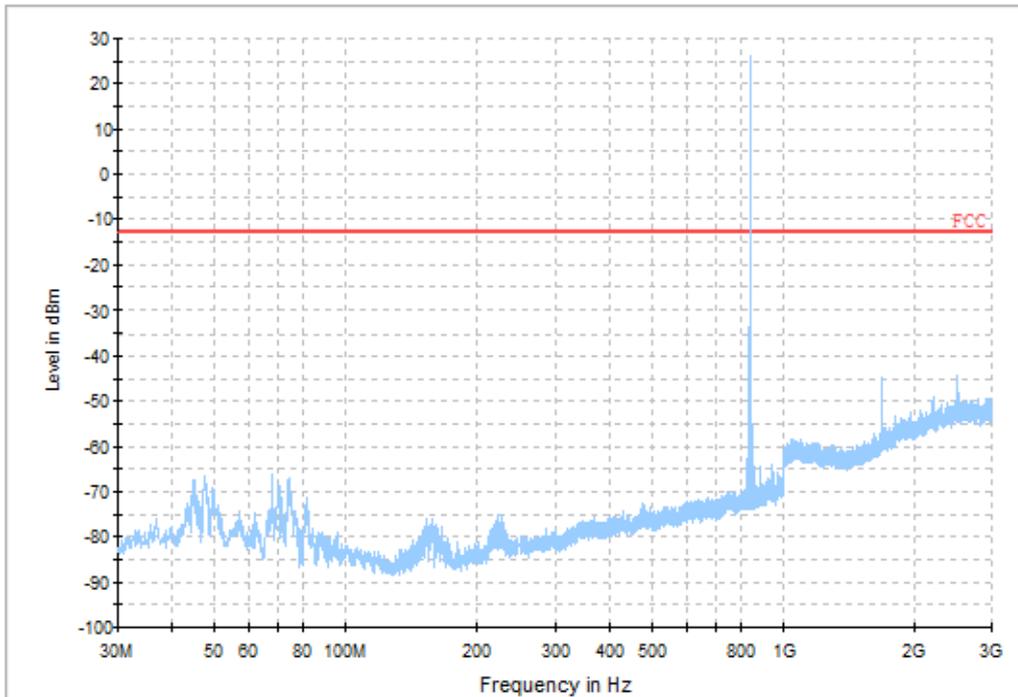
Copy of FCC PART22 GSM850_H



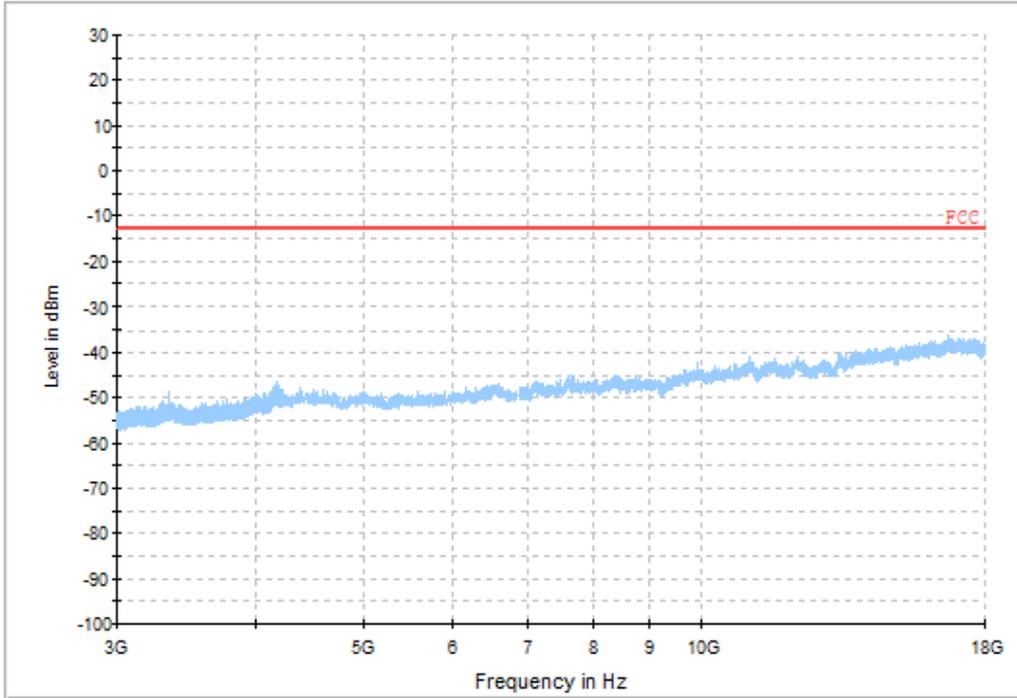
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L

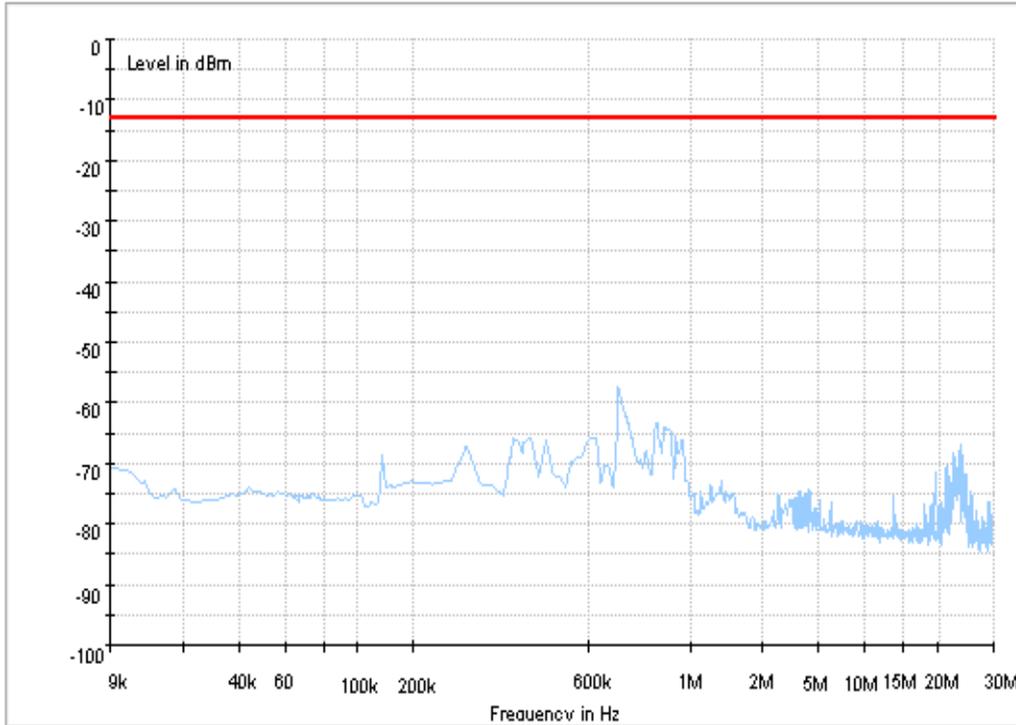


Copy of FCC PART22 GSM850_H

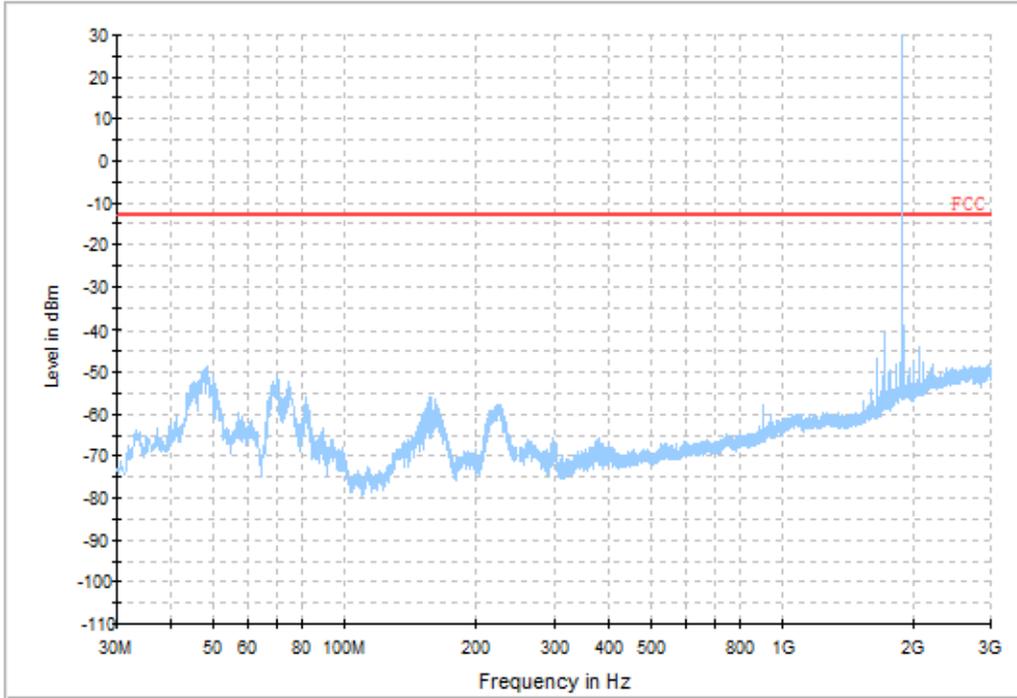


7.1.2 Test Band = GSM1900

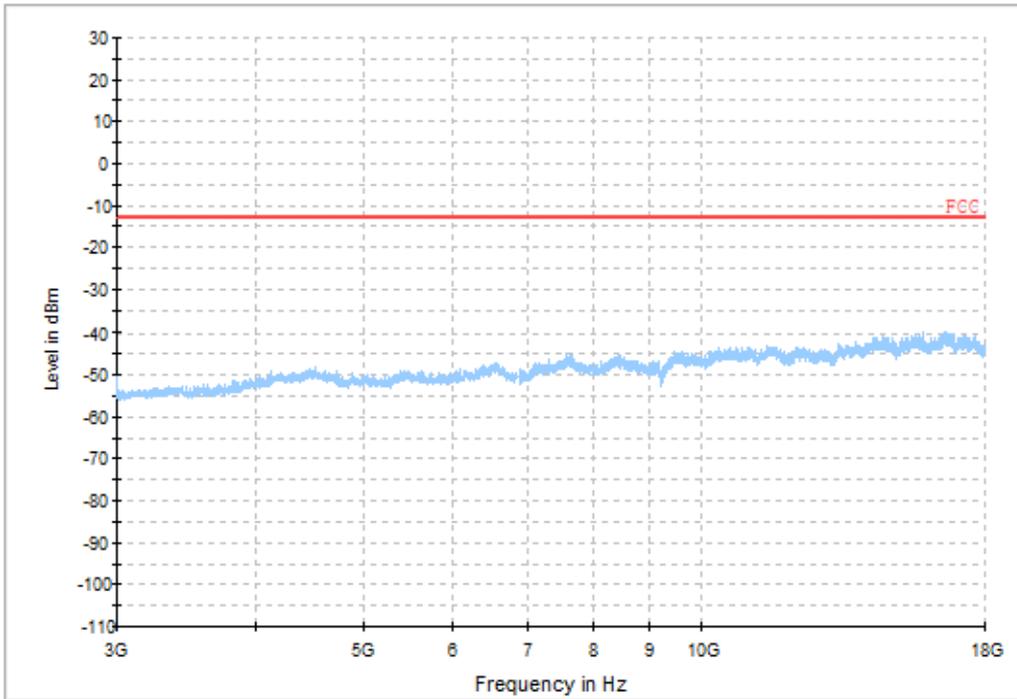
7.1.2.1 Test Mode = GSM/TM1

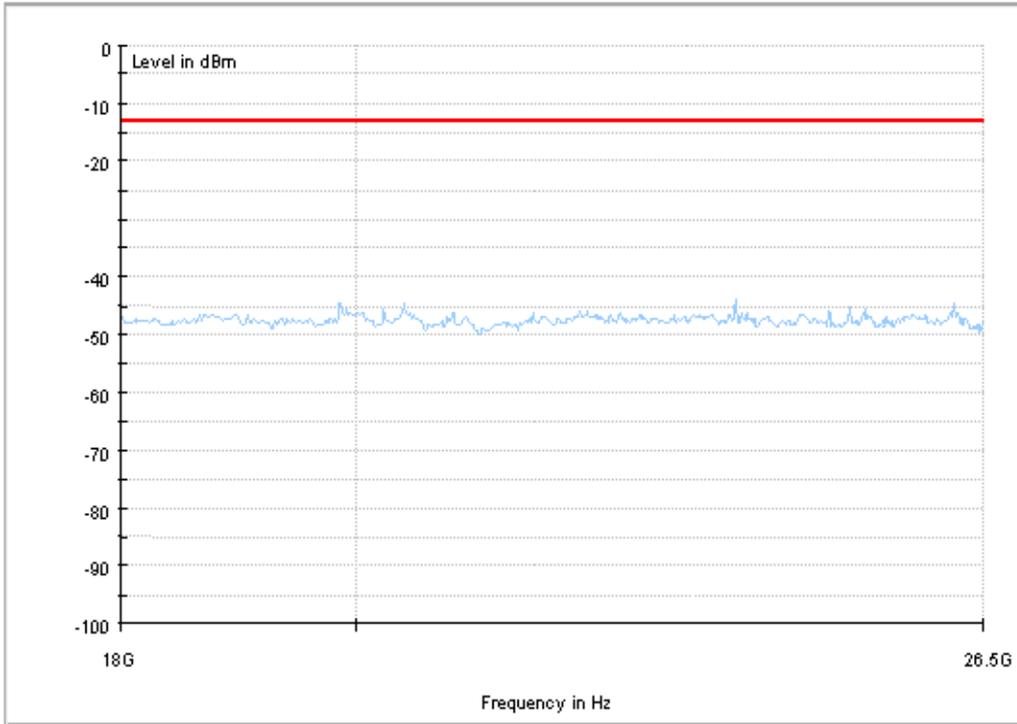


Copy of FCC PART24 GSM1900_L

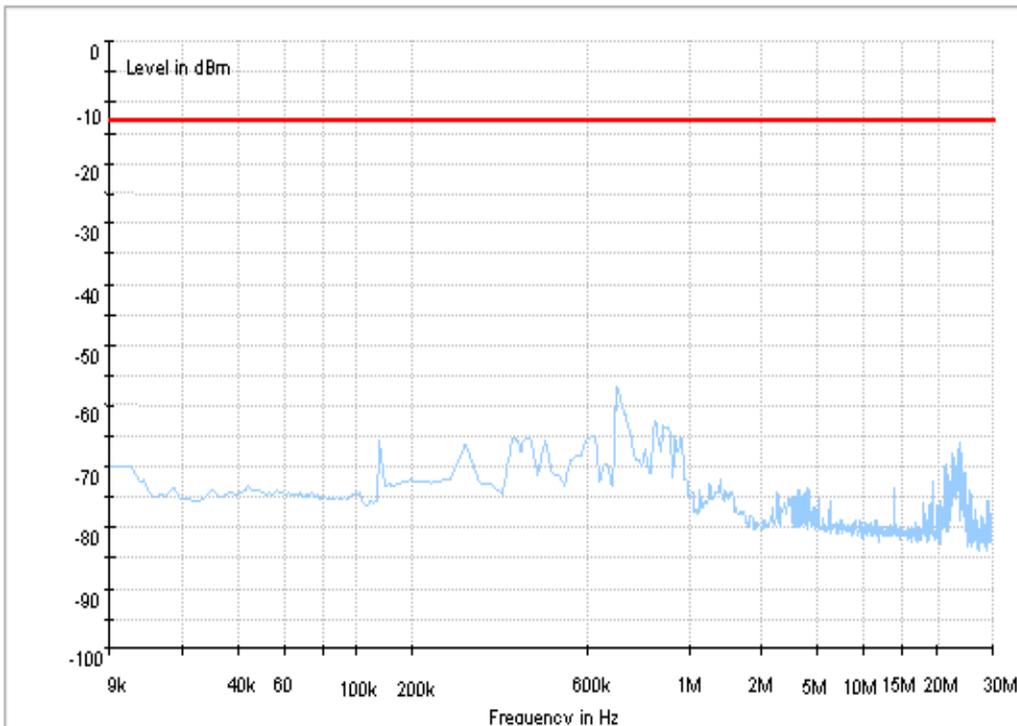


Copy of FCC PART24 GSM1900_H

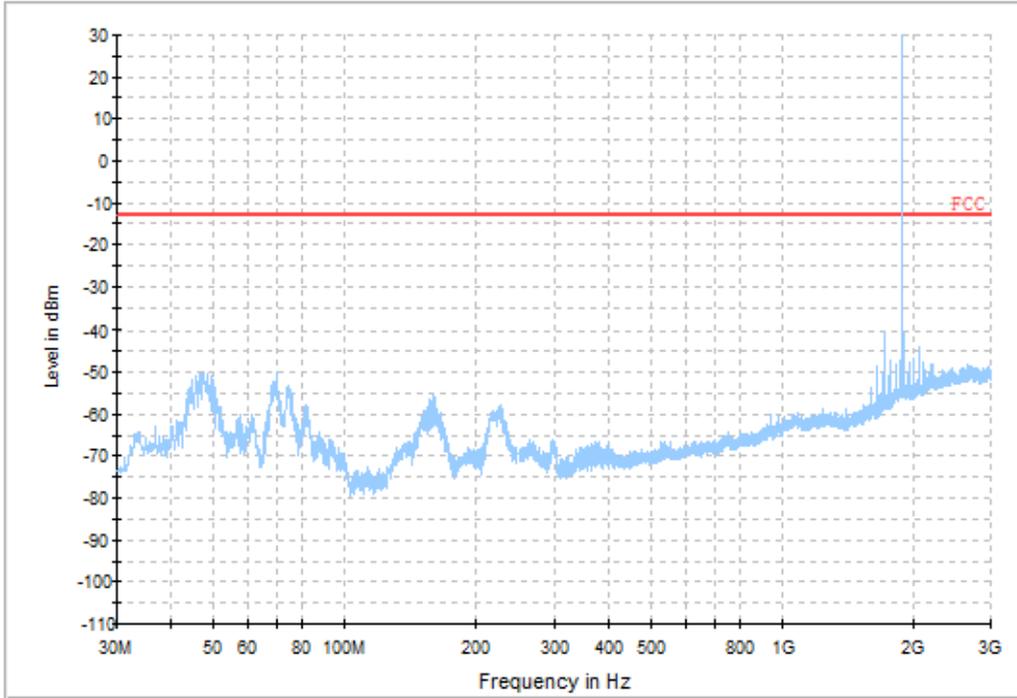




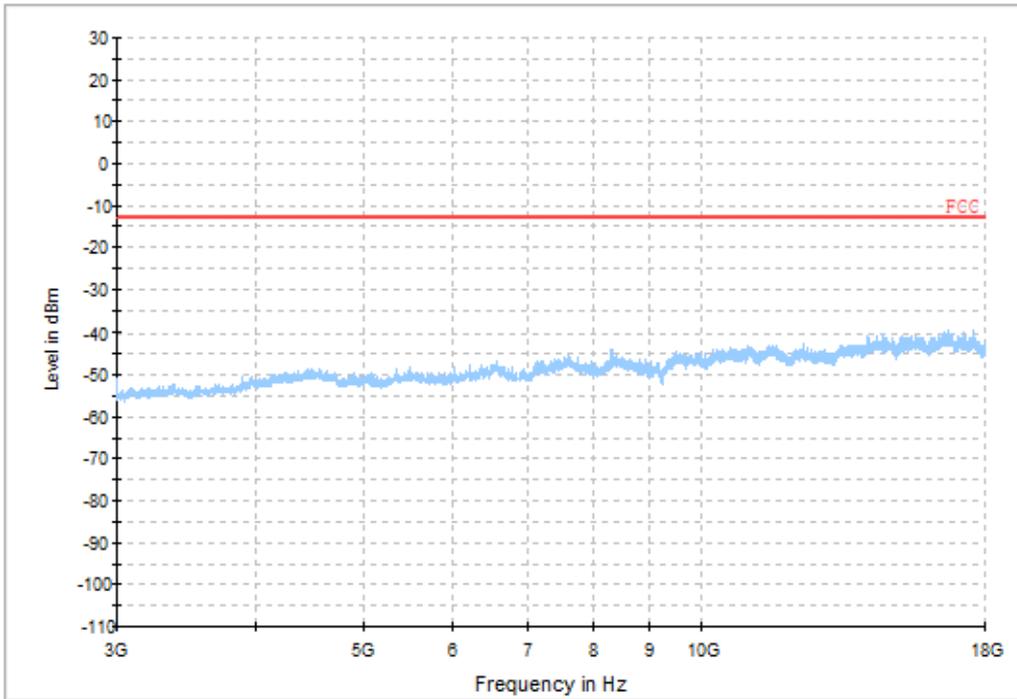
7.1.2.2 Test Mode = GSM/TM2

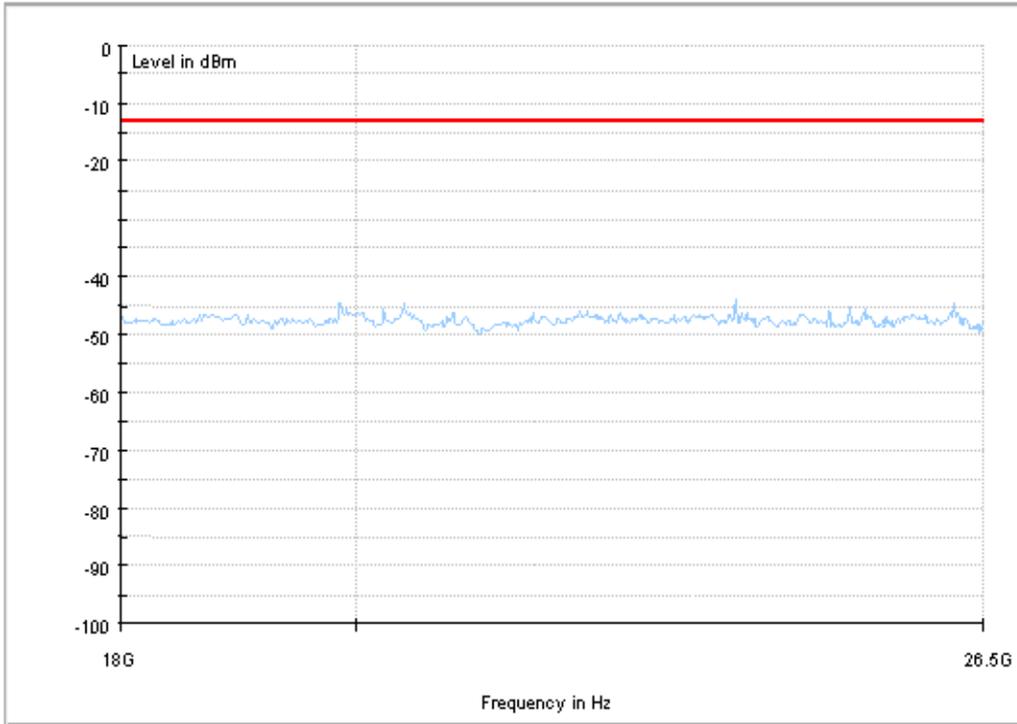


Copy of FCC PART24 GSM1900_L



Copy of FCC PART24 GSM1900_H

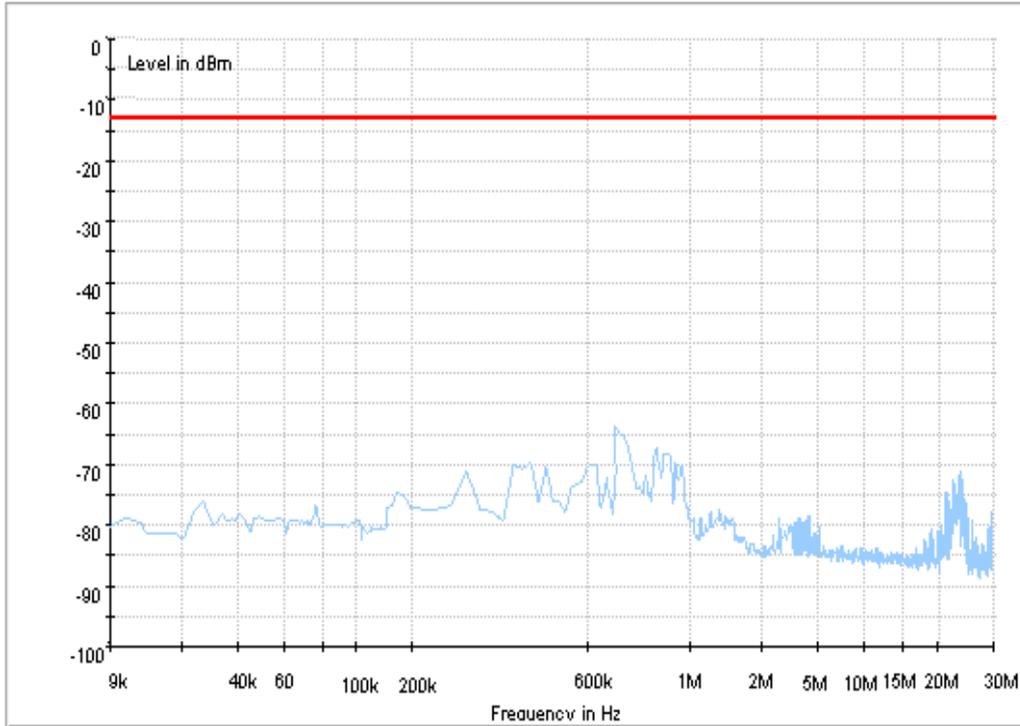




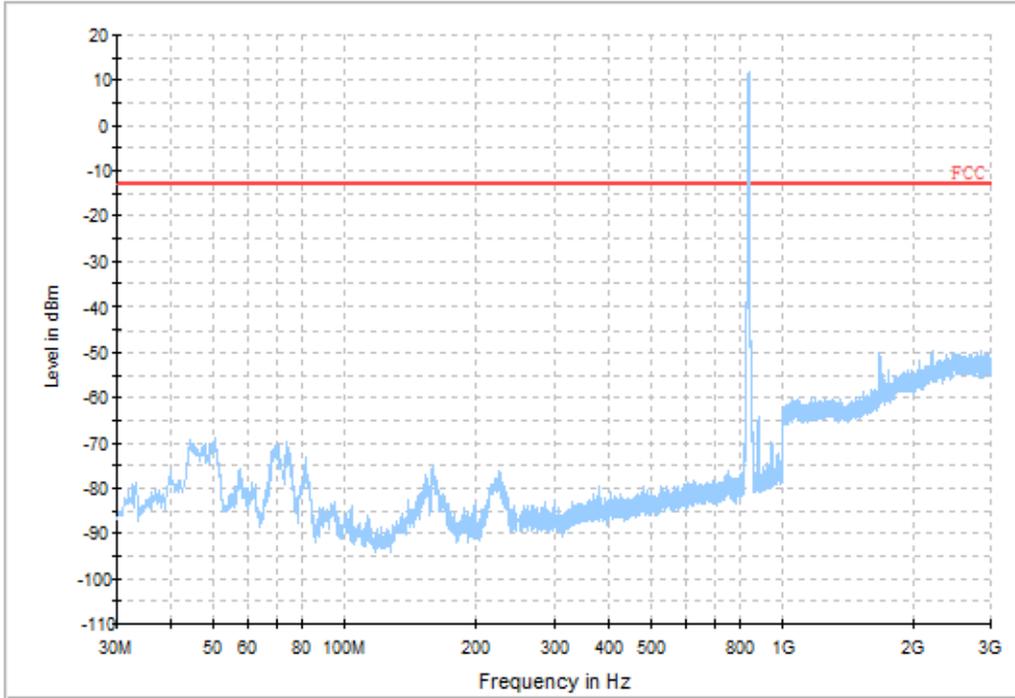
7.2 For UMTS

7.2.1 Test Band = WCDMA850

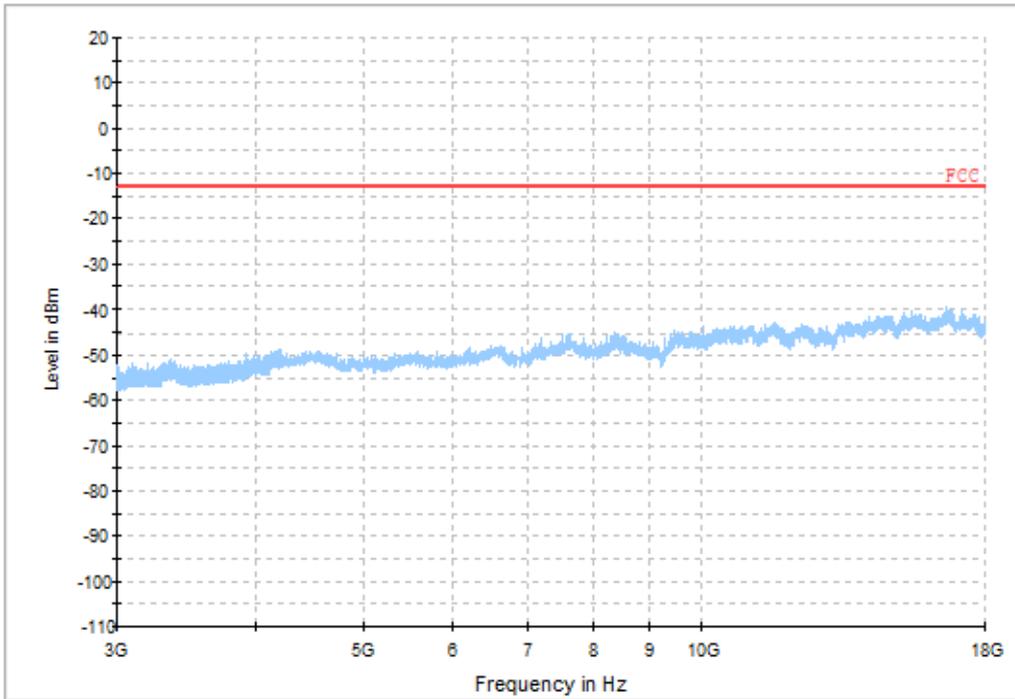
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

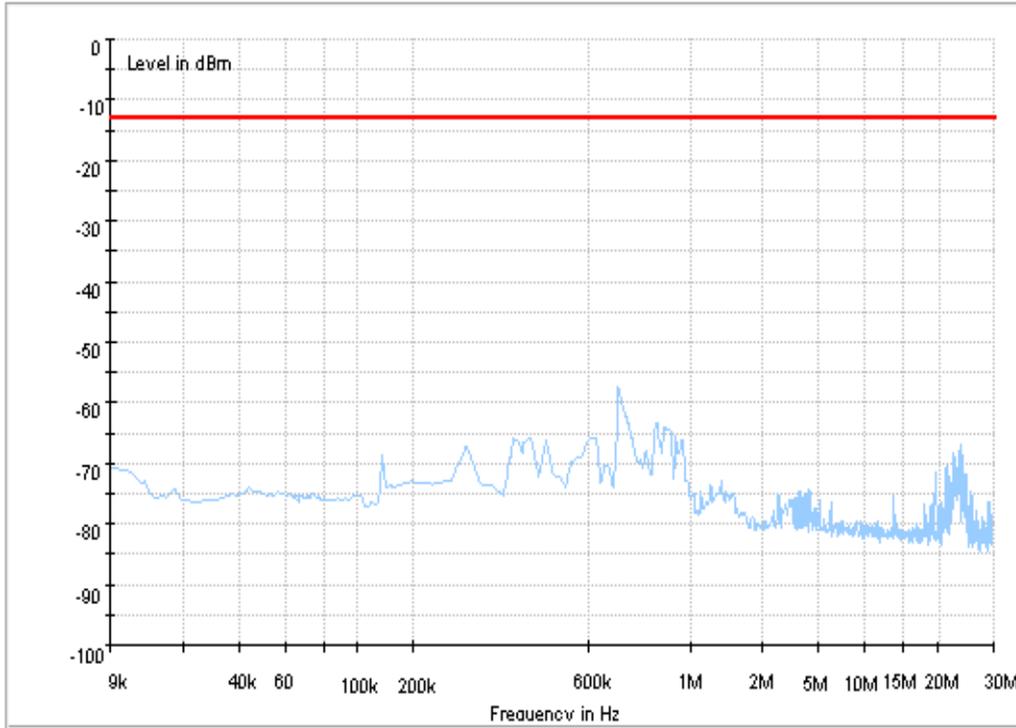


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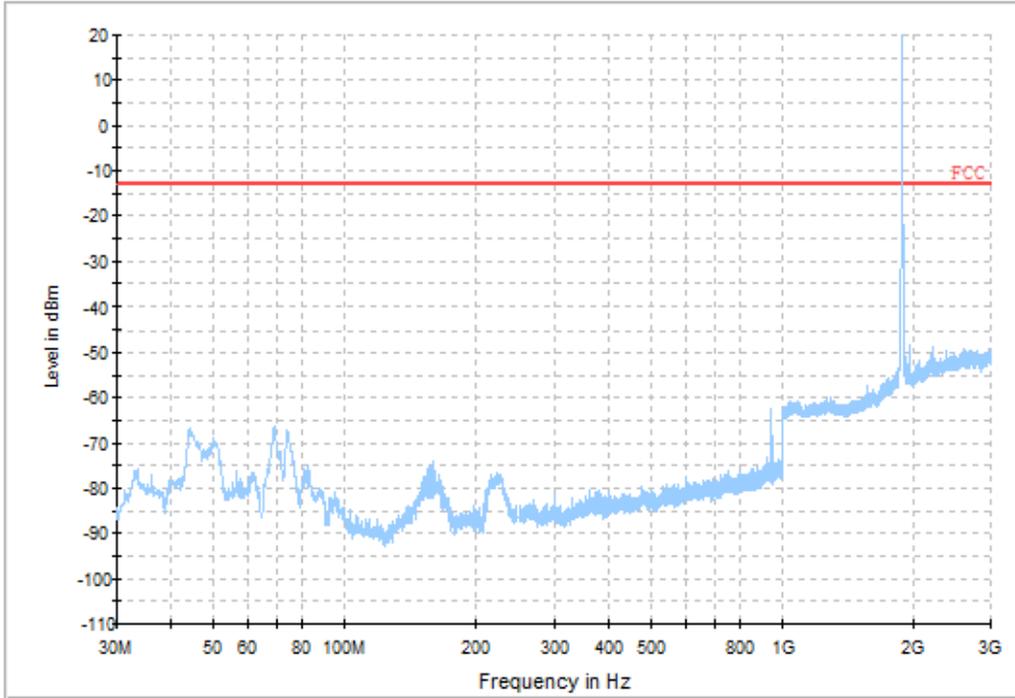


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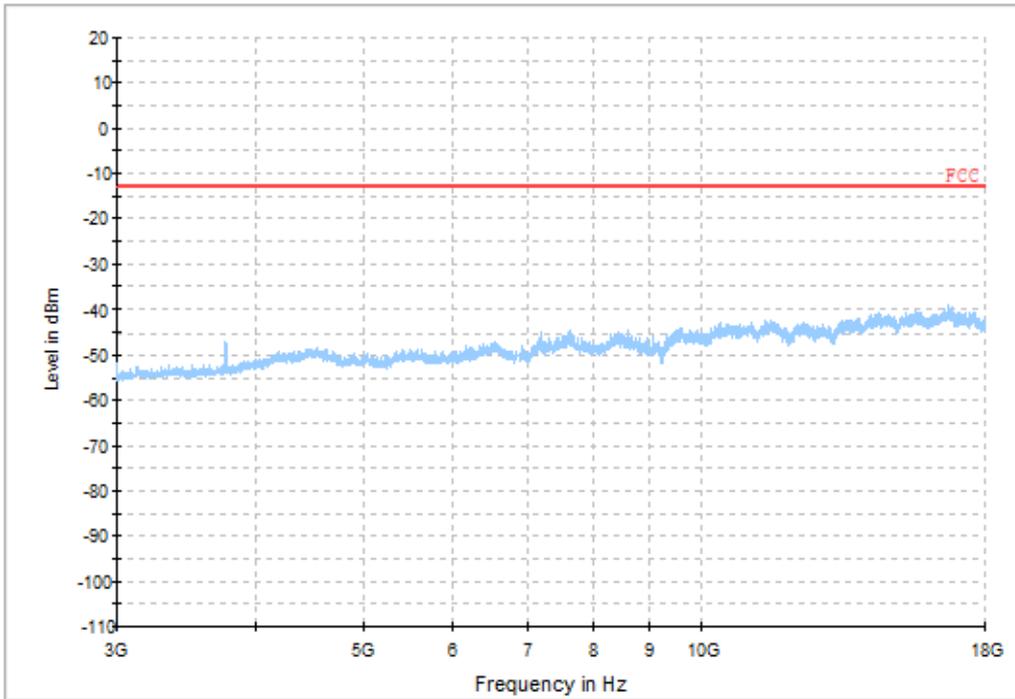
7.2.2.1 Test Mode = UMTS/TM1

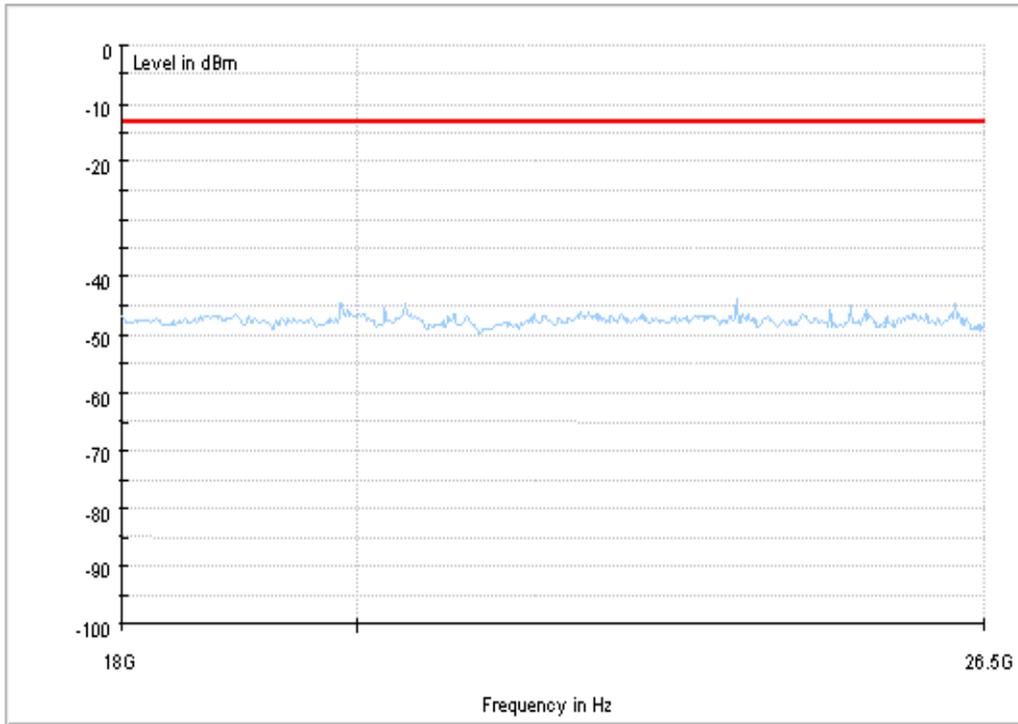


Copy of FCC PART24 WCDMA1900_L



Copy of FCC PART24 WCDMA1900_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]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-3.36	-0.00408	PASS
				VN	-7.94	-0.00963	PASS
				VH	-6.65	-0.00807	PASS
		MCH	TN	VL	3.62	0.00433	PASS
				VN	8.20	0.0098	PASS
				VH	3.10	0.00371	PASS
		HCH	TN	VL	9.94	0.01171	PASS
				VN	14.21	0.01674	PASS
				VH	15.82	0.01864	PASS
	GSM/TM2	LCH	TN	VL	5.59	0.00678	PASS
				VN	13.33	0.01617	PASS
				VH	12.46	0.01512	PASS
		MCH	TN	VL	8.65	0.01034	PASS
				VN	5.26	0.00629	PASS
				VH	6.65	0.00795	PASS
		HCH	TN	VL	19.37	0.02282	PASS
				VN	10.78	0.0127	PASS
				VH	5.55	0.00654	PASS
GSM1900	GSM/TM1	LCH	TN	VL	9.04	0.00489	PASS
				VN	15.88	0.00858	PASS
				VH	16.21	0.00876	PASS
		MCH	TN	VL	7.75	0.00412	PASS
				VN	16.34	0.00869	PASS
				VH	11.75	0.00625	PASS
		HCH	TN	VL	11.56	0.00605	PASS
				VN	8.39	0.00439	PASS
				VH	-3.03	-0.00159	PASS
	GSM/TM2	LCH	TN	VL	40.84	0.02207	PASS
				VN	42.84	0.02315	PASS
				VH	61.47	0.03322	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	TN	VL	45.49	0.0242	PASS
				VN	53.37	0.02839	PASS
				VH	48.07	0.02557	PASS
		HCH	TN	VL	42.81	0.02242	PASS
				VN	46.62	0.02441	PASS
				VH	51.98	0.02722	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	-5.94	-0.00721	±2.5	PASS	
				-20	-7.68	-0.00932	±2.5	PASS	
				-10	-6.46	-0.00784	±2.5	PASS	
				0	2.07	0.00251	±2.5	PASS	
				10	0.26	0.00032	±2.5	PASS	
				20	4.39	0.00533	±2.5	PASS	
				30	-1.94	-0.00235	±2.5	PASS	
				40	-8.01	-0.00972	±2.5	PASS	
				50	-1.49	-0.00181	±2.5	PASS	
		MCH	VN	-30	-4.52	-0.0054	±2.5	PASS	
				-20	-5.75	-0.00687	±2.5	PASS	
				-10	-1.23	-0.00147	±2.5	PASS	
				0	5.17	0.00618	±2.5	PASS	
				10	9.10	0.01088	±2.5	PASS	
				20	8.78	0.01049	±2.5	PASS	
				30	11.62	0.01389	±2.5	PASS	
				40	-8.14	-0.00973	±2.5	PASS	
				50	-9.30	-0.01112	±2.5	PASS	
		HCH	VN	-30	1.10	0.0013	±2.5	PASS	
				-20	-5.42	-0.00639	±2.5	PASS	
				-10	-11.75	-0.01384	±2.5	PASS	
				0	9.30	0.01096	±2.5	PASS	
				10	9.75	0.01149	±2.5	PASS	
				20	16.59	0.01955	±2.5	PASS	
				30	10.65	0.01255	±2.5	PASS	
				40	-1.23	-0.00145	±2.5	PASS	
				50	-7.94	-0.00935	±2.5	PASS	
		GSM/TM2	LCH	VN	-30	-4.68	-0.00568	±2.5	PASS
					-20	-4.62	-0.00561	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict		
				-10	-8.07	-0.00979	±2.5	PASS		
				0	4.10	0.00497	±2.5	PASS		
				10	15.43	0.01872	±2.5	PASS		
				20	10.23	0.01241	±2.5	PASS		
				30	9.69	0.01176	±2.5	PASS		
				40	-4.42	-0.00536	±2.5	PASS		
				50	-1.90	-0.00231	±2.5	PASS		
		MCH	VN	-30	-10.14	-0.01212	±2.5	PASS		
				-20	-4.26	-0.00509	±2.5	PASS		
				-10	-10.72	-0.01281	±2.5	PASS		
				0	4.26	0.00509	±2.5	PASS		
				10	13.53	0.01617	±2.5	PASS		
				20	7.36	0.0088	±2.5	PASS		
				30	10.49	0.01254	±2.5	PASS		
				40	-6.75	-0.00807	±2.5	PASS		
				50	-7.07	-0.00845	±2.5	PASS		
		HCH	VN	-30	-3.81	-0.00449	±2.5	PASS		
				-20	-5.81	-0.00684	±2.5	PASS		
				-10	-5.42	-0.00639	±2.5	PASS		
				0	9.49	0.01118	±2.5	PASS		
				10	14.85	0.0175	±2.5	PASS		
				20	5.97	0.00703	±2.5	PASS		
				30	3.52	0.00415	±2.5	PASS		
				40	-5.00	-0.00589	±2.5	PASS		
				50	-5.52	-0.0065	±2.5	PASS		
		GSM1900	GSM/TM1	LCH	VN	-30	-9.17	-0.00496	±2.5	PASS
						-20	-6.91	-0.00373	±2.5	PASS
-10	-18.92					-0.01023	±2.5	PASS		
0	26.35					0.01424	±2.5	PASS		
10	30.22					0.01633	±2.5	PASS		
20	29.83					0.01612	±2.5	PASS		
30	26.67					0.01441	±2.5	PASS		
40	-9.43					-0.0051	±2.5	PASS		
50	-14.85					-0.00803	±2.5	PASS		
MCH	VN			-30	-15.56	-0.00828	±2.5	PASS		
				-20	-8.78	-0.00467	±2.5	PASS		
				-10	-23.50	-0.0125	±2.5	PASS		
				0	25.05	0.01332	±2.5	PASS		
				10	19.50	0.01037	±2.5	PASS		
				20	20.15	0.01072	±2.5	PASS		

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict	
				30	30.61	0.01628	±2.5	PASS	
				40	-11.75	-0.00625	±2.5	PASS	
				50	-8.33	-0.00443	±2.5	PASS	
		HCH	VN	-30	-8.52	-0.00446	±2.5	PASS	
				-20	-4.65	-0.00243	±2.5	PASS	
				-10	-14.85	-0.00778	±2.5	PASS	
				0	18.79	0.00984	±2.5	PASS	
				10	28.22	0.01478	±2.5	PASS	
				20	19.44	0.01018	±2.5	PASS	
				30	30.48	0.01596	±2.5	PASS	
				40	-8.01	-0.00419	±2.5	PASS	
				50	-16.59	-0.00869	±2.5	PASS	
		GSM/TM2	LCH	VN	-30	-4.97	-0.00269	±2.5	PASS
					-20	-8.23	-0.00445	±2.5	PASS
	-10				-12.07	-0.00652	±2.5	PASS	
	0				37.35	0.02019	±2.5	PASS	
	10				50.04	0.02705	±2.5	PASS	
	20				53.59	0.02896	±2.5	PASS	
	30				51.24	0.02769	±2.5	PASS	
	40				-18.79	-0.01016	±2.5	PASS	
	50		-15.37	-0.00831	±2.5	PASS			
	MCH		VN	-30	-19.50	-0.01037	±2.5	PASS	
				-20	-12.11	-0.00644	±2.5	PASS	
				-10	-18.27	-0.00972	±2.5	PASS	
				0	44.17	0.02349	±2.5	PASS	
				10	51.08	0.02717	±2.5	PASS	
				20	47.20	0.02511	±2.5	PASS	
				30	45.62	0.02427	±2.5	PASS	
		40		-24.76	-0.01317	±2.5	PASS		
	50	-4.55	-0.00242	±2.5	PASS				
	HCH	VN	-30	-9.72	-0.00509	±2.5	PASS		
			-20	-2.62	-0.00137	±2.5	PASS		
			-10	-4.26	-0.00223	±2.5	PASS		
			0	41.39	0.02167	±2.5	PASS		
			10	41.52	0.02174	±2.5	PASS		
			20	34.97	0.01831	±2.5	PASS		
			30	56.21	0.02943	±2.5	PASS		
			40	-7.46	-0.00391	±2.5	PASS		
	50	-16.63	-0.00871	±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]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	-0.03	-0.00004	PASS
				VN	7.26	0.00879	PASS
				VH	-10.57	-0.01279	PASS
		MCH	TN	VL	-2.40	-0.00287	PASS
				VN	7.63	0.00912	PASS
				VH	6.04	0.00722	PASS
		HCH	TN	VL	-14.82	-0.01751	PASS
				VN	-4.88	-0.00576	PASS
				VH	-8.18	-0.00966	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	7.02	0.00379	PASS
				VN	7.78	0.0042	PASS
				VH	-11.17	-0.00603	PASS
		MCH	TN	VL	5.42	0.00288	PASS
				VN	-17.73	-0.00943	PASS
				VH	8.27	0.0044	PASS
		HCH	TN	VL	-12.94	-0.00678	PASS
				VN	-4.99	-0.00262	PASS
				VH	-28.87	-0.01513	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	3.78	0.00457	±2.5	PASS
				-20	1.92	0.00232	±2.5	PASS
				-10	1.28	0.00155	±2.5	PASS
				0	1.34	0.00162	±2.5	PASS
				10	-0.87	-0.00105	±2.5	PASS
				20	-16.74	-0.02026	±2.5	PASS
				30	-3.28	-0.00397	±2.5	PASS
				40	0.37	0.00045	±2.5	PASS
		MCH	VN	50	5.87	0.0071	±2.5	PASS
				-30	1.71	0.00204	±2.5	PASS
				-20	1.39	0.00166	±2.5	PASS
				-10	-0.46	-0.00055	±2.5	PASS
				0	-4.32	-0.00516	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict		
				10	-12.21	-0.0146	±2.5	PASS		
				20	-8.19	-0.00979	±2.5	PASS		
				30	-14.31	-0.01711	±2.5	PASS		
				40	-0.02	-0.00002	±2.5	PASS		
				50	-0.03	-0.00004	±2.5	PASS		
		HCH	VN	-30	-4.15	-0.0049	±2.5	PASS		
				-20	-2.91	-0.00344	±2.5	PASS		
				-10	-4.49	-0.0053	±2.5	PASS		
				0	-5.66	-0.00669	±2.5	PASS		
				10	-12.45	-0.01471	±2.5	PASS		
				20	-7.90	-0.00933	±2.5	PASS		
				30	0.26	0.00031	±2.5	PASS		
				40	-6.15	-0.00726	±2.5	PASS		
		50	-2.85	-0.00337	±2.5	PASS				
		WCDMA1900	UMTS/TM1	LCH	VN	-30	-0.92	-0.0005	±2.5	PASS
						-20	-3.10	-0.00167	±2.5	PASS
						-10	-2.96	-0.0016	±2.5	PASS
						0	6.70	0.00362	±2.5	PASS
10	12.68					0.00685	±2.5	PASS		
20	-9.20					-0.00497	±2.5	PASS		
30	-21.35					-0.01153	±2.5	PASS		
40	-3.45					-0.00186	±2.5	PASS		
50	-1.43			-0.00077	±2.5	PASS				
MCH	VN			-30	-6.61	-0.00352	±2.5	PASS		
				-20	-10.27	-0.00546	±2.5	PASS		
				-10	-9.20	-0.00489	±2.5	PASS		
				0	-8.36	-0.00445	±2.5	PASS		
				10	5.77	0.00307	±2.5	PASS		
				20	24.63	0.0131	±2.5	PASS		
				30	18.33	0.00975	±2.5	PASS		
40	-6.70			-0.00356	±2.5	PASS				
50	-10.06			-0.00535	±2.5	PASS				
HCH	VN			-30	-10.73	-0.00562	±2.5	PASS		
				-20	-9.51	-0.00499	±2.5	PASS		
				-10	-7.46	-0.00391	±2.5	PASS		
				0	-25.07	-0.01314	±2.5	PASS		
				10	-10.93	-0.00573	±2.5	PASS		
				20	-17.78	-0.00932	±2.5	PASS		
30	2.59	0.00136	±2.5	PASS						



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				40	-8.67	-0.00454	±2.5	PASS
				50	-10.31	-0.0054	±2.5	PASS

END