Appendix for Test Report

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1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dBm]	ERP/EIRP	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	32.58	32.63	38.5	PASS
		MCH	32.77	32.82	38.5	PASS
		HCH	32.35	32.40	38.5	PASS
	GSM/TM2	LCH	27.41	27.46	38.5	PASS
		MCH	27.41	27.46	38.5	PASS
		HCH	27.36	27.41	38.5	PASS
WCDMA850	UMTS/TM1	LCH	23.29	23.34	38.5	PASS
		MCH	23.24	23.29	38.5	PASS
		HCH	23.47	23.52	38.5	PASS
Test Band	**Test Mode**	**Test Channel**	**Measured[dBm]**	**ERP/EIRP**	**Limit [dBm]**	**Verdict**
GSM1900	GSM/TM1	LCH	29.47	31.97	33	PASS
		MCH	29.52	32.02	33	PASS
		HCH	29.37	31.87	33	PASS
	GSM/TM2	LCH	26.23	28.73	33	PASS
		MCH	26.20	28.70	33	PASS
		HCH	26.15	28.65	33	PASS
WCDMA1900	UMTS/TM1	LCH	23.25	25.75	33	PASS
		MCH	23.08	25.58	33	PASS
		HCH	23.23	25.73	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,

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

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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	0.12	13	PASS
	GSM/TM2	LCH	3.18	13	PASS
		MCH	3.14	13	PASS
		HCH	3.04	13	PASS
Test Band	**Test Mode**	**Test Channel**	**Measured[dB]**	**Limit [dB]**	**Verdict**
WCDMA1900	UMTS/TM1	LCH	3.22	13	PASS
		MCH	3.29	13	PASS
		HCH	3.33	13	PASS

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3Appendix_C: Modulation Characteristics

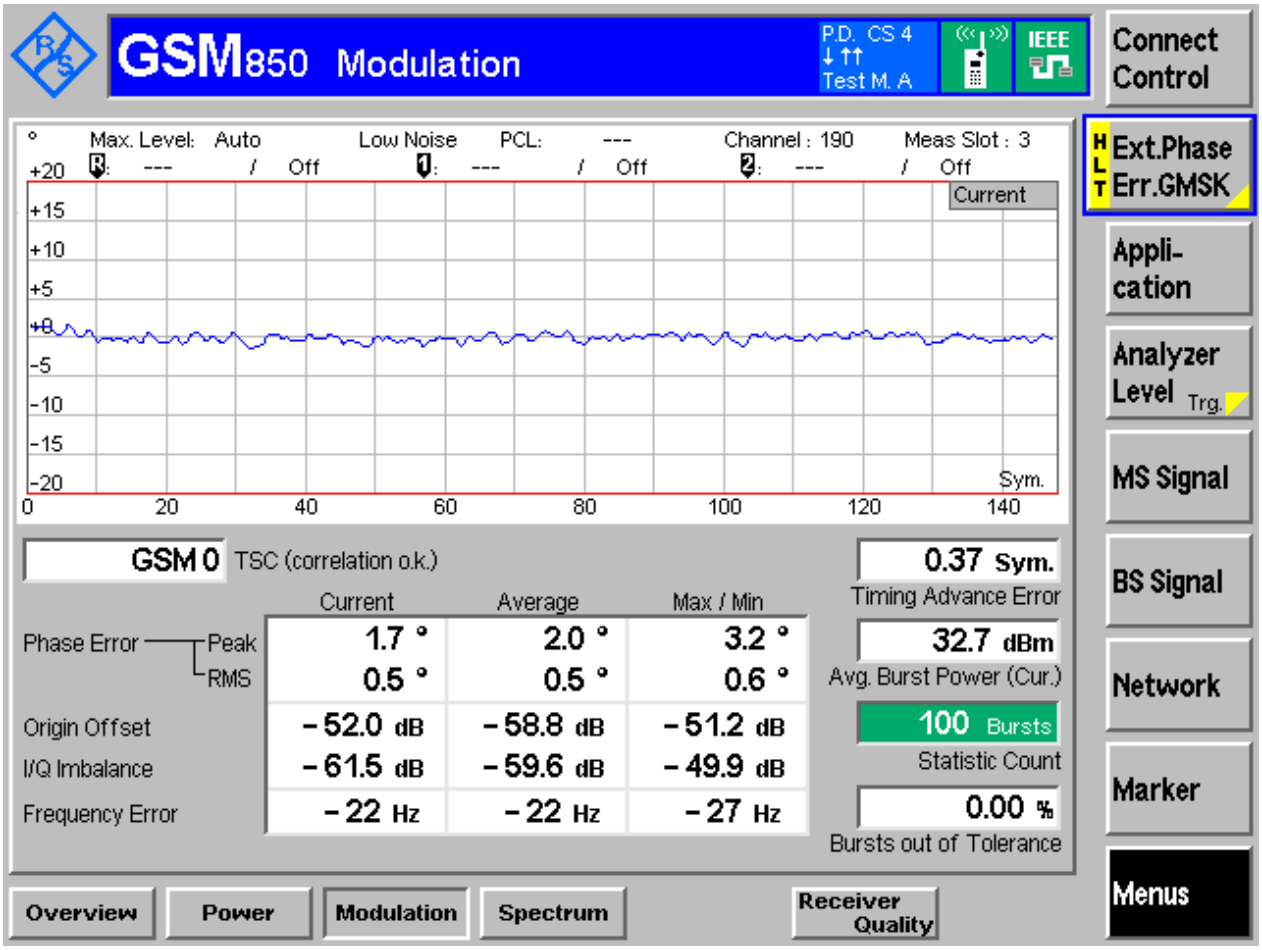
Part I - Test Plots

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



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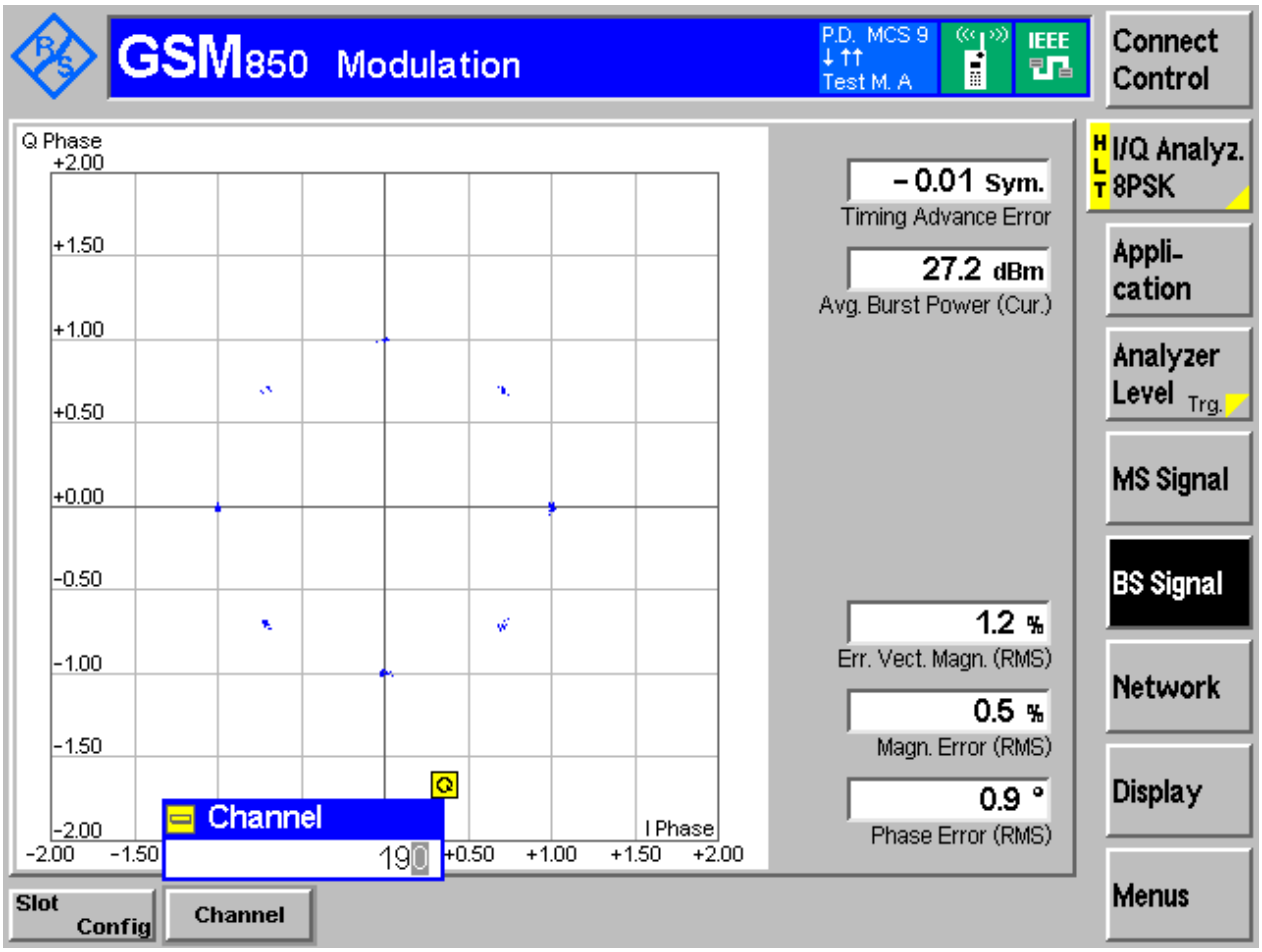
3.1.1.2 Test Mode = GSM/TM2

3.1.1.2.1 Test Channel = MCH



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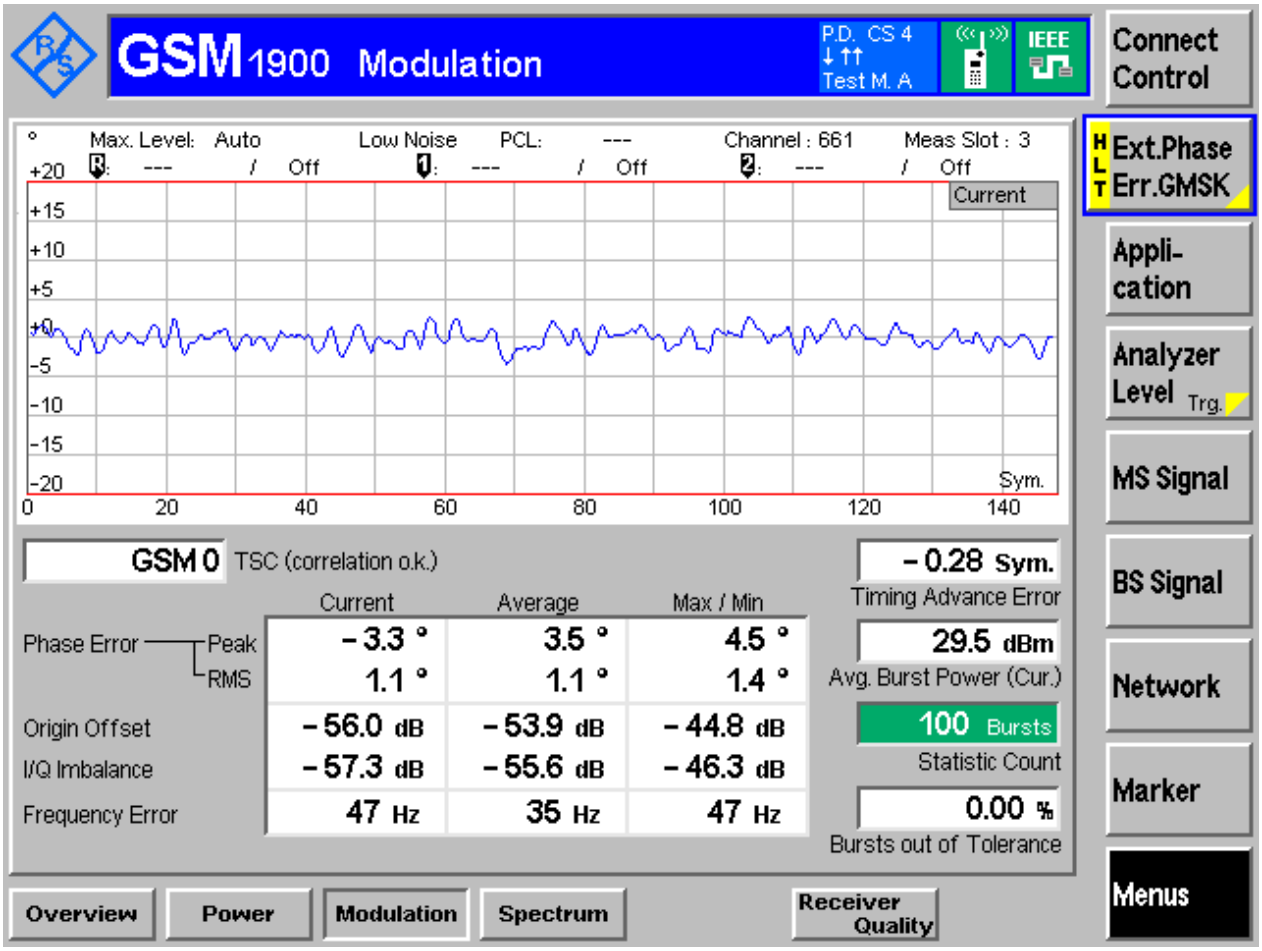
3.1.2 Test Band = GSM1900

3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



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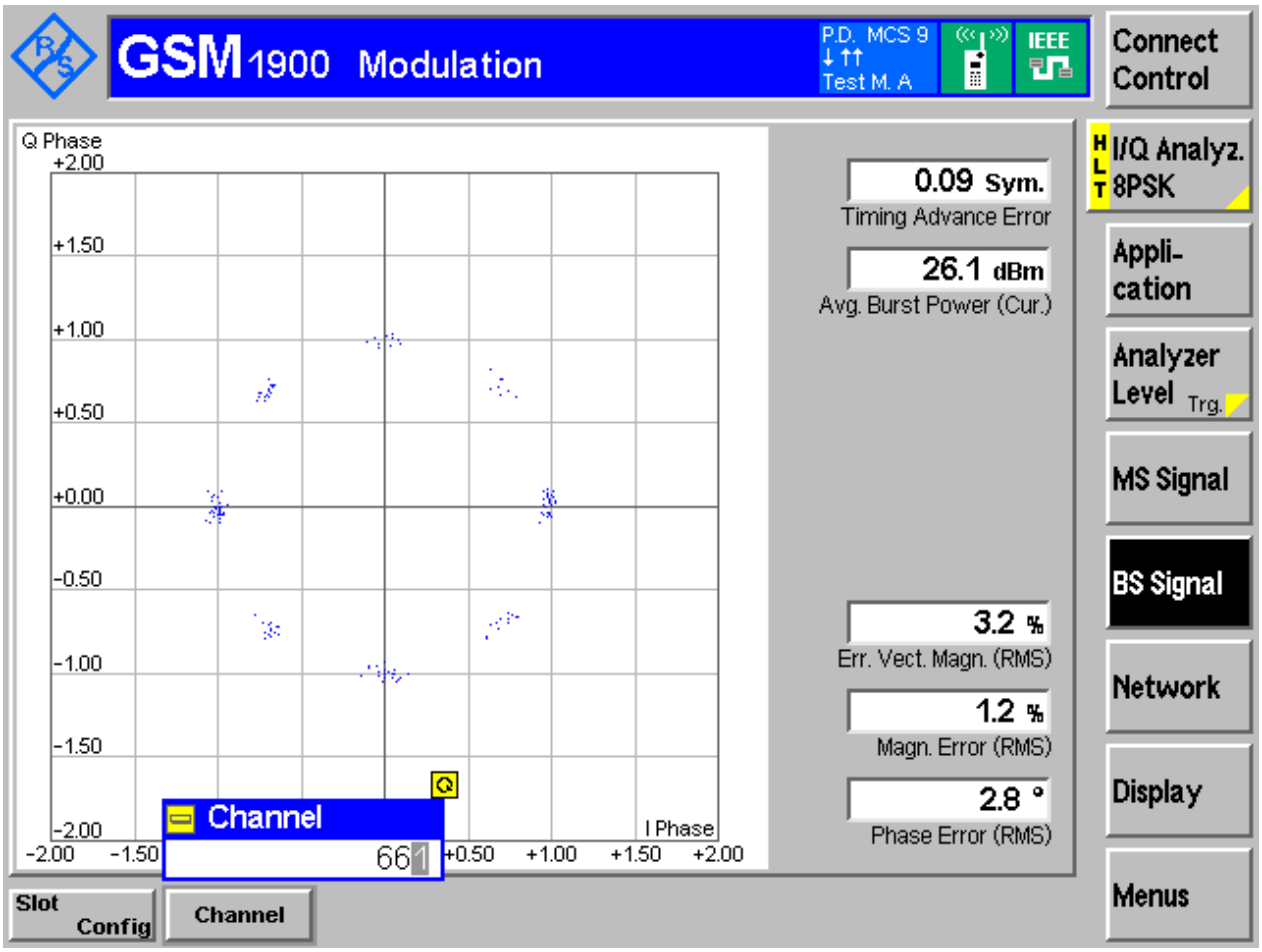
3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH



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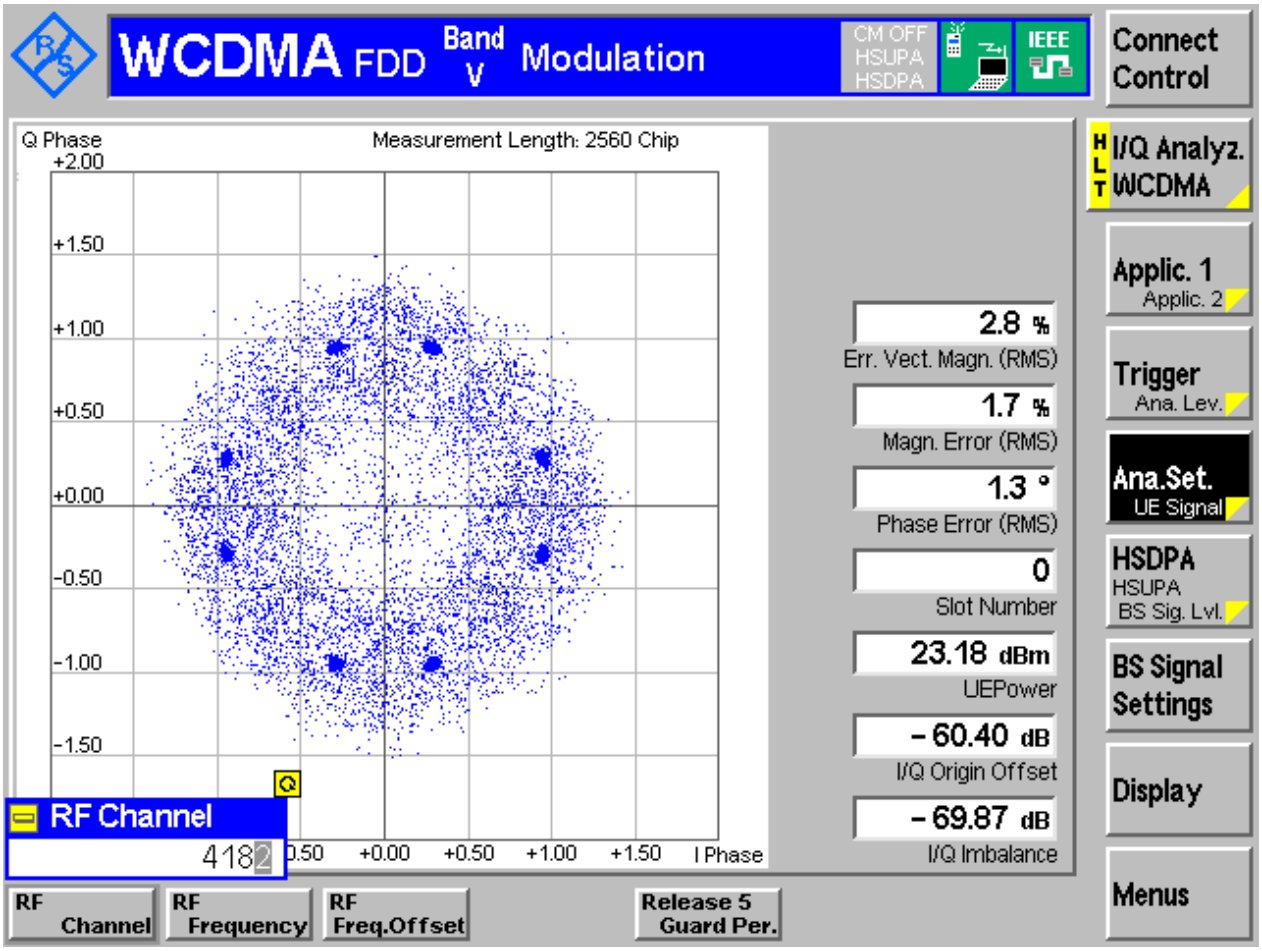
3.2 For UMTS

3.2.1 Test Band = WCDMA850

3.2.1.1 Test Mode = UMTS/TM1

3.2.1.1.1 Test Channel = MCH



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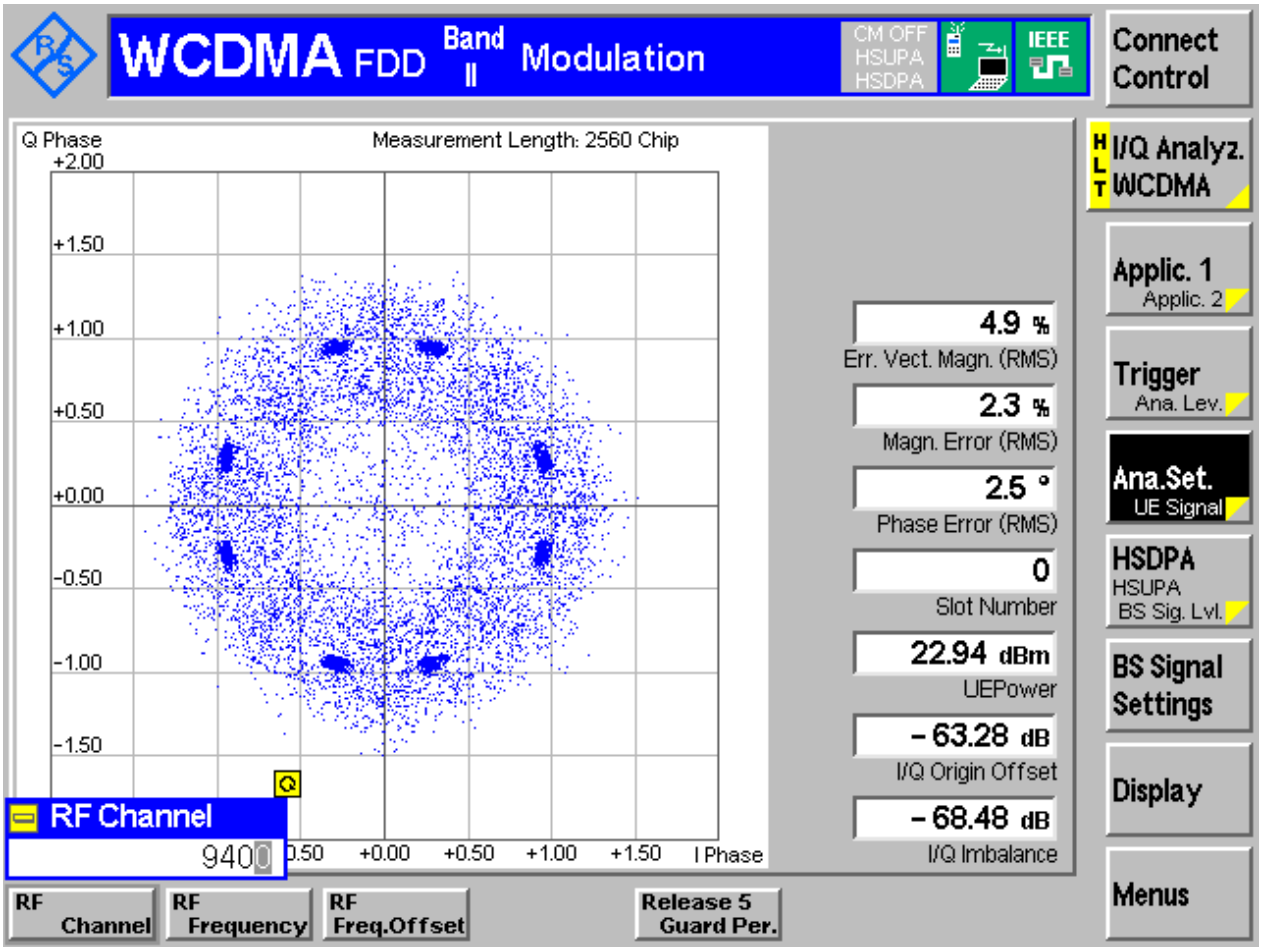
3.2.2 Test Band = WCDMA1900

3.2.2.1 Test Mode = UMTS/TM1

3.2.2.1.1 Test Channel = MCH



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4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM850	GSM/TM1	LCH	244.60	316.11	Pass
		MCH	244.77	316.13	Pass
		HCH	246.22	322.71	Pass
	GSM/TM2	LCH	246.00	314.23	Pass
		MCH	241.22	308.06	Pass
		HCH	244.89	309.89	Pass
GSM1900	GSM/TM1	LCH	245.28	317.00	Pass
		MCH	244.94	303.98	Pass
		HCH	245.52	319.06	Pass
	GSM/TM2	LCH	245.32	305.76	Pass
		MCH	249.83	304.49	Pass
		HCH	242.74	310.86	Pass
Test Band	**Test Mode**	**Test Channel**	**Occupied Bandwidth [MHz]**	**Emission Bandwidth [MHz]**	**Verdict**
WCDMA850	UMTS/TM1	LCH	4.18	4.67	Pass
		MCH	4.16	4.66	Pass
		HCH	4.17	4.68	Pass
WCDMA1900	UMTS/TM1	LCH	4.16	4.67	Pass
		MCH	4.16	4.66	Pass
		HCH	4.16	4.66	Pass

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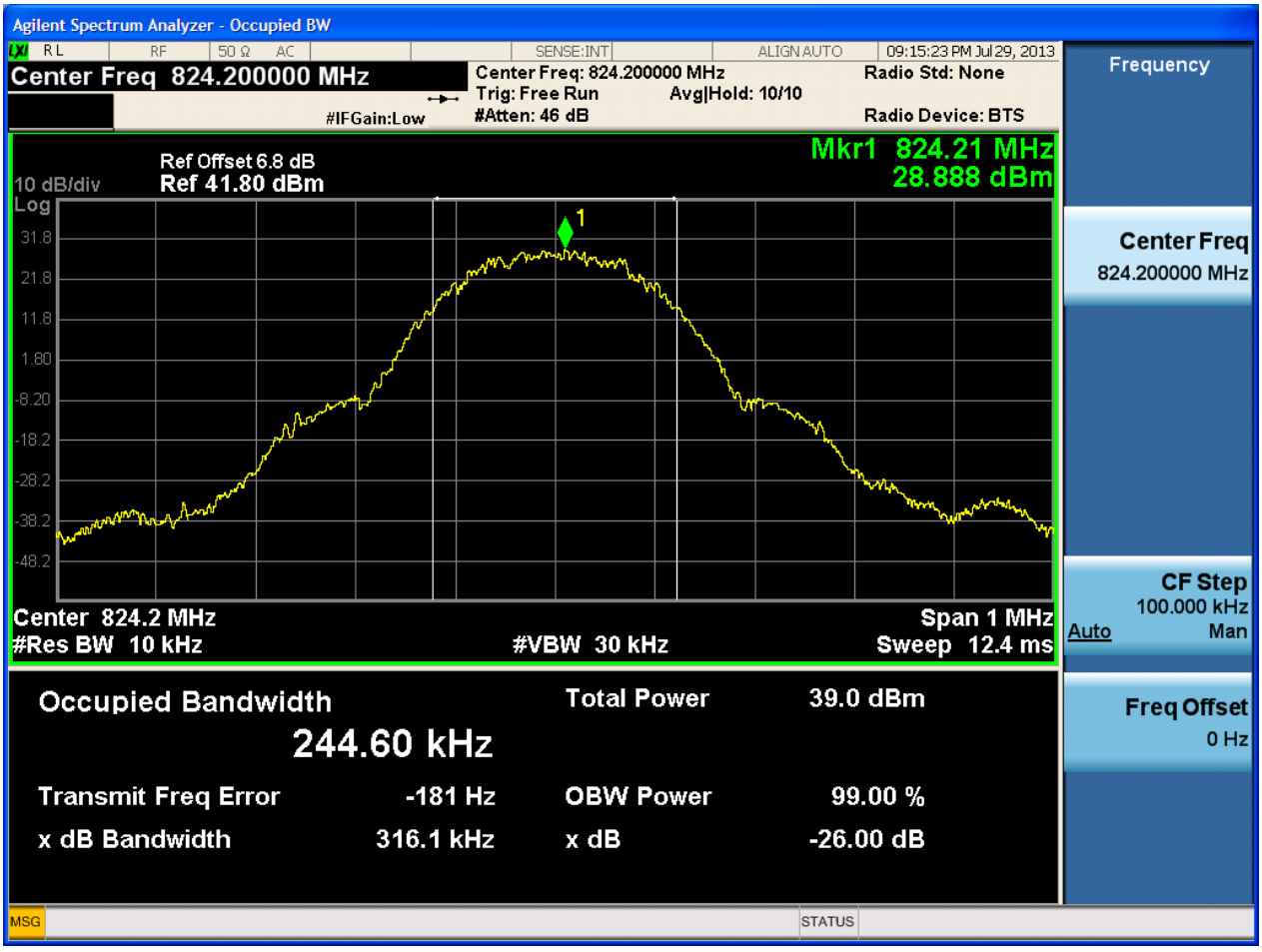
Part II - Test Plots

4.1 For GSM

4.1.1 Test Band = GSM850

4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = LCH



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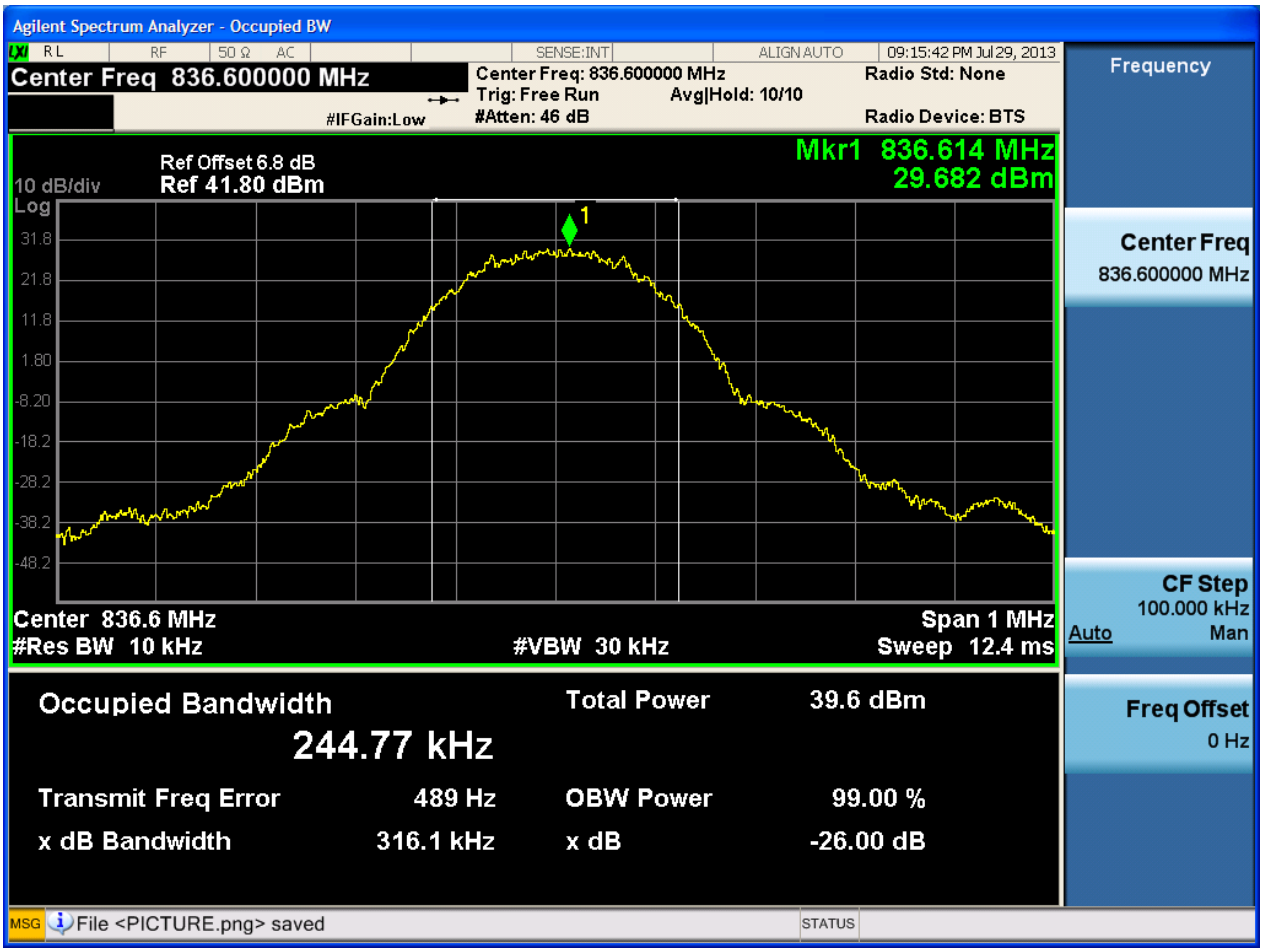
4.1.1.1.2 Test Channel = MCH



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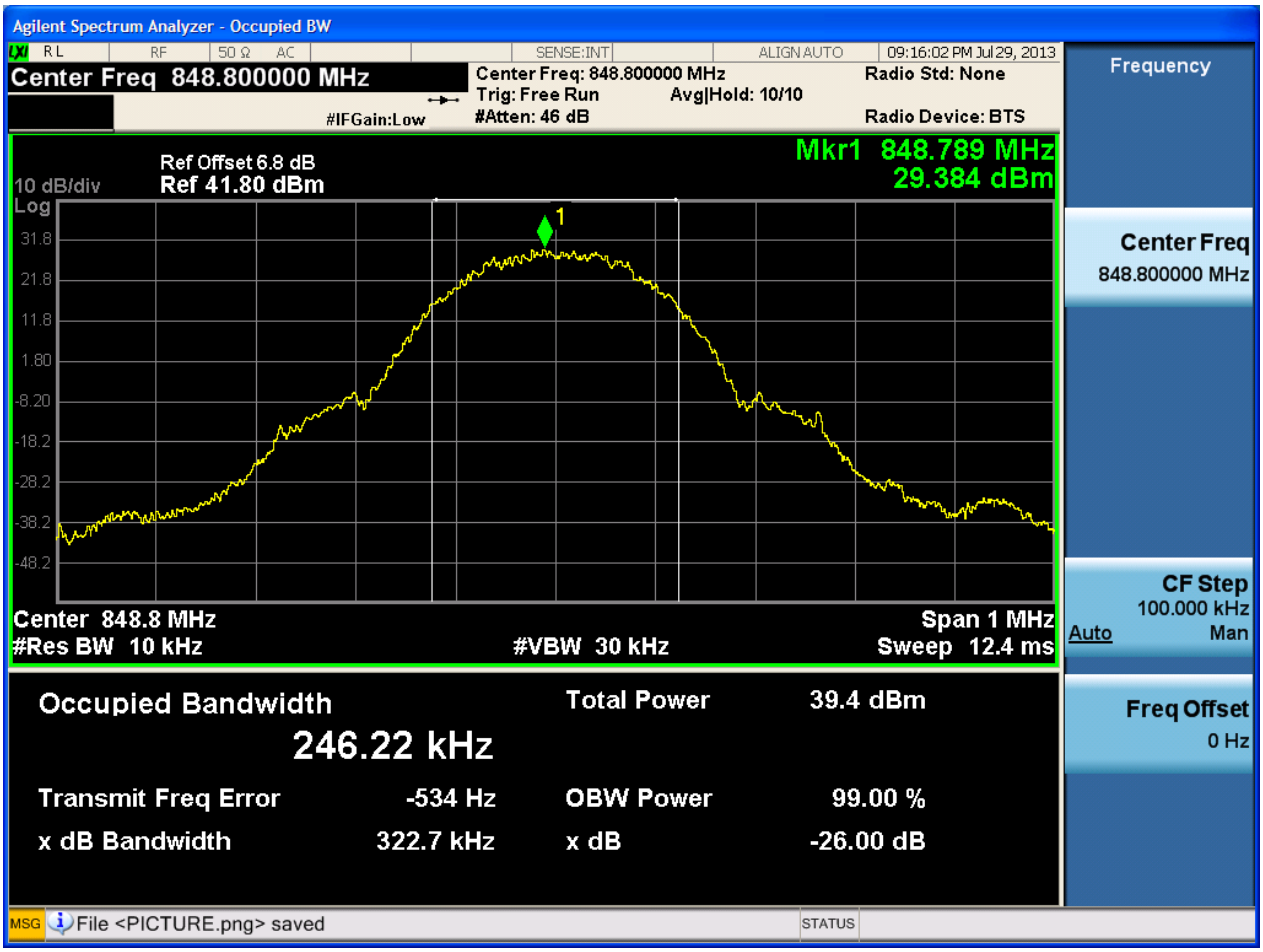
4.1.1.1.3 Test Channel = HCH



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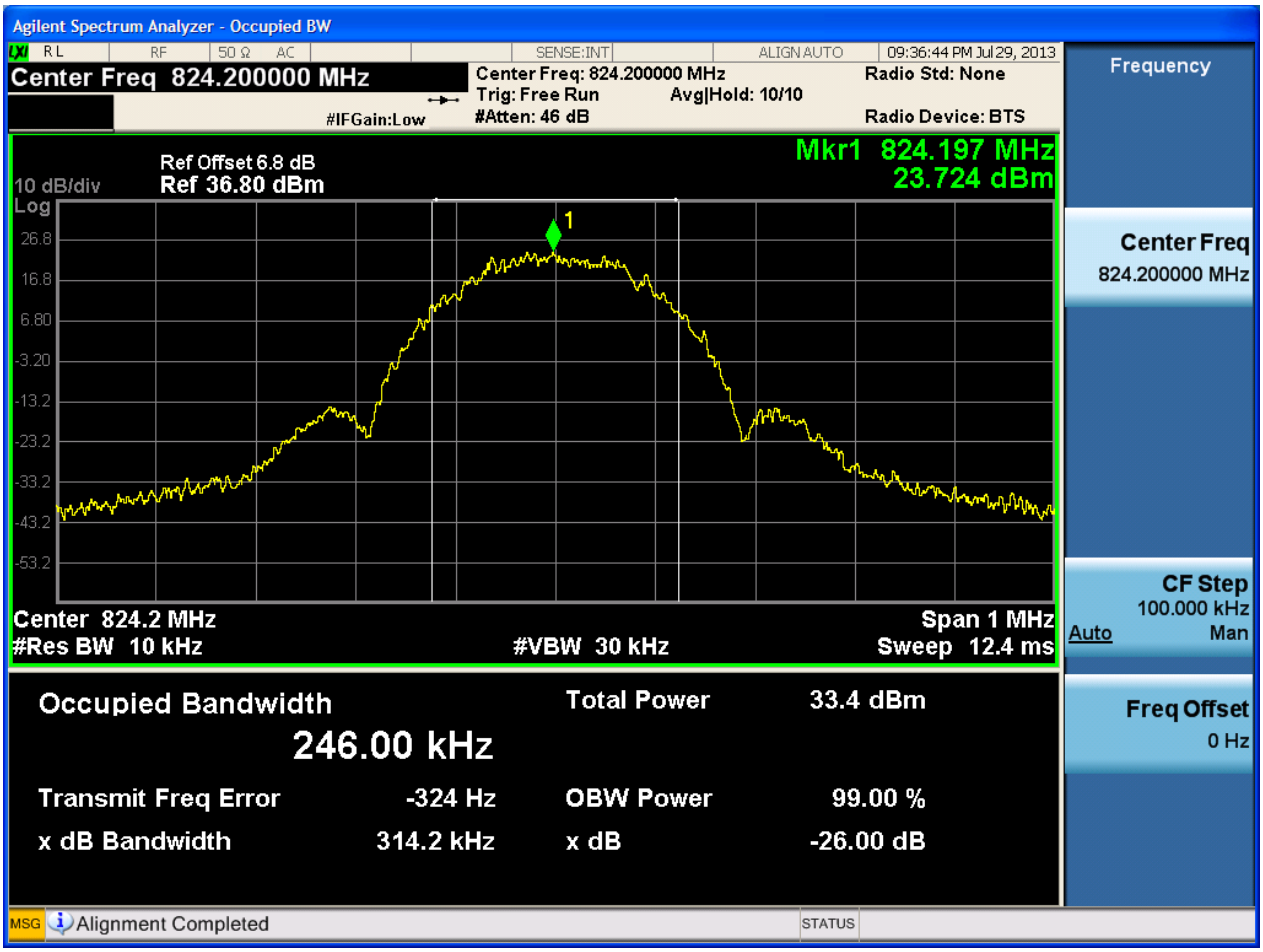
4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH



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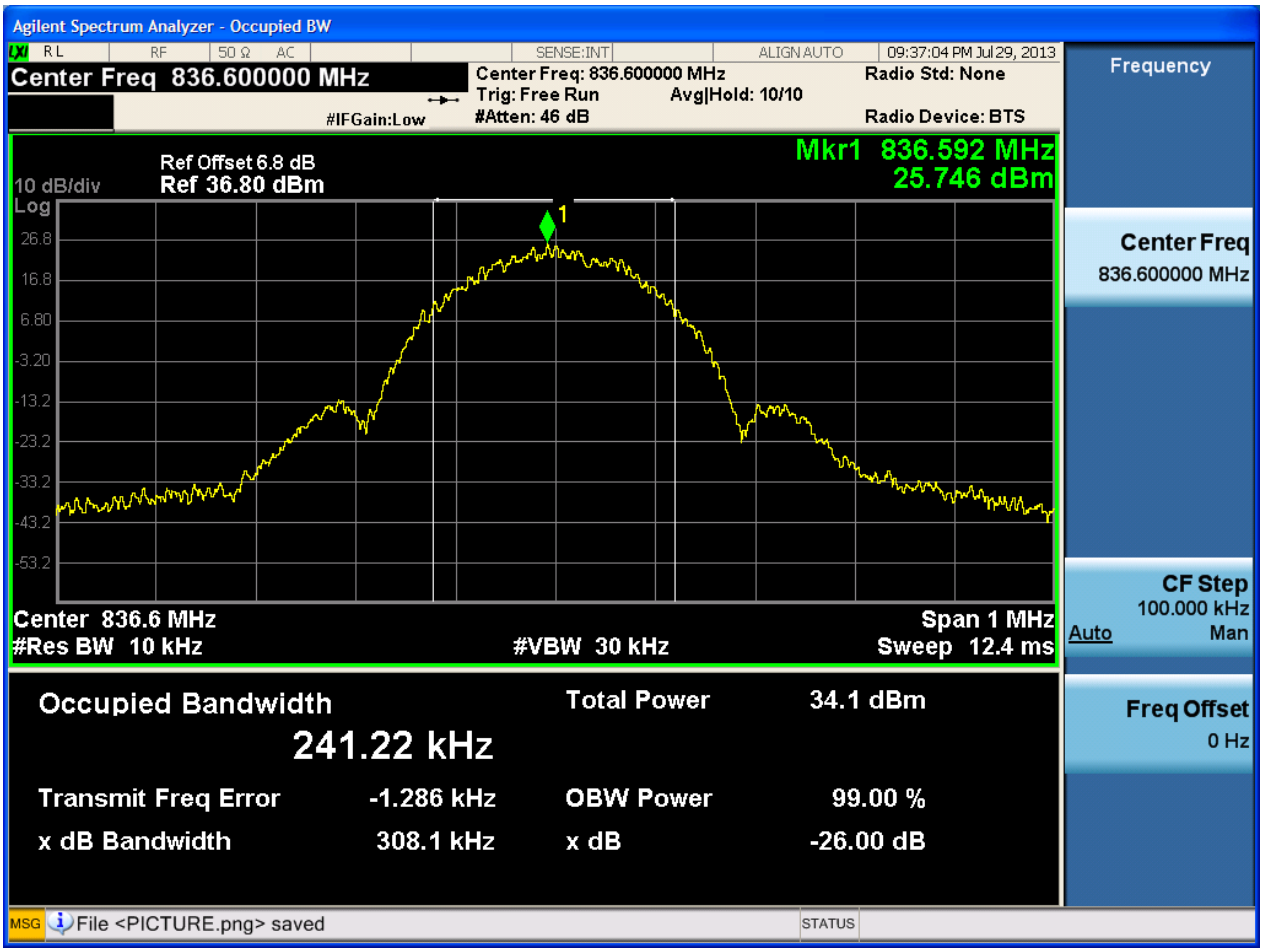
4.1.1.2.2 Test Channel = MCH



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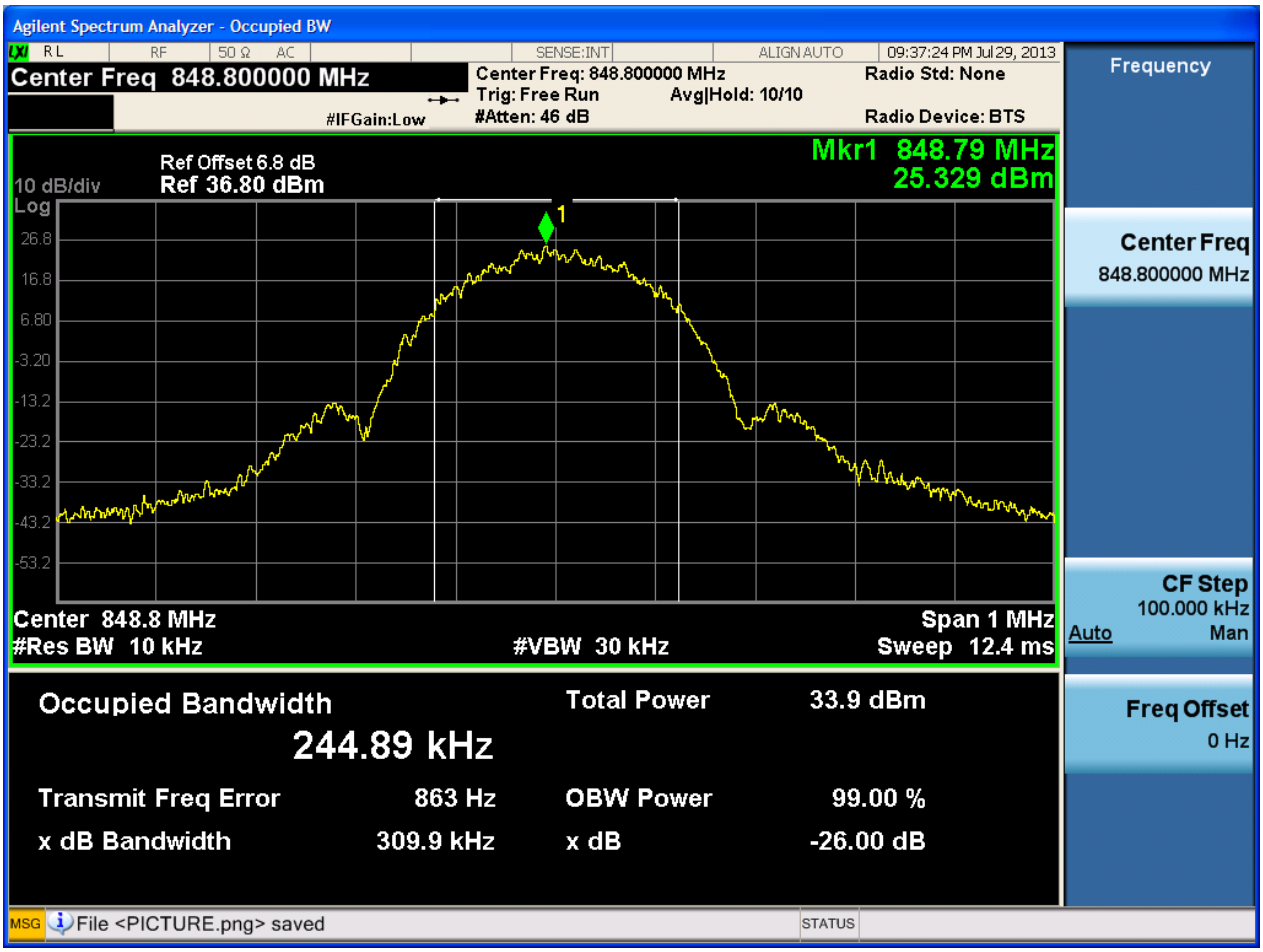
4.1.1.2.3 Test Channel = HCH



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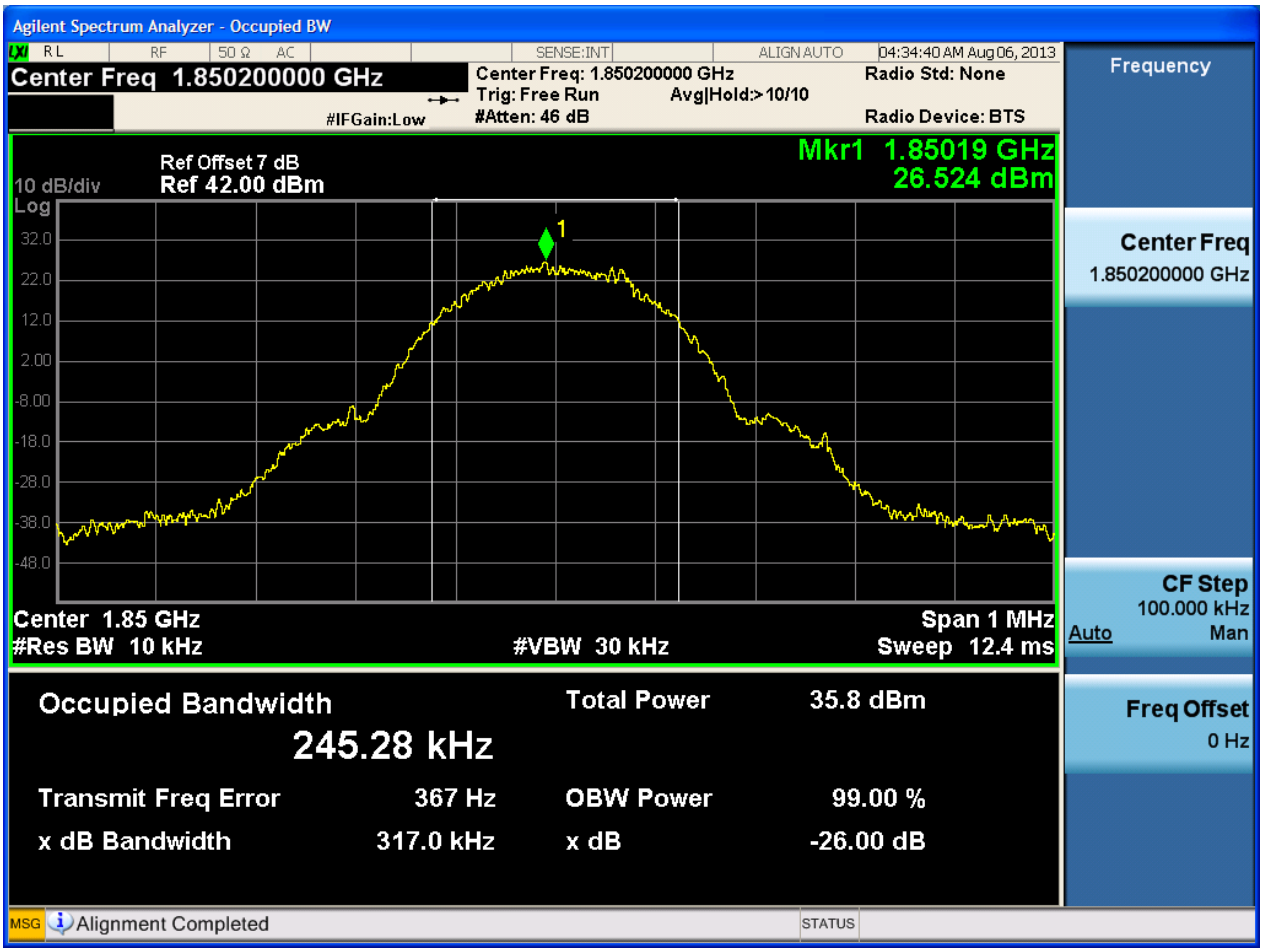
4.1.2 Test Band = GSM1900

4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH



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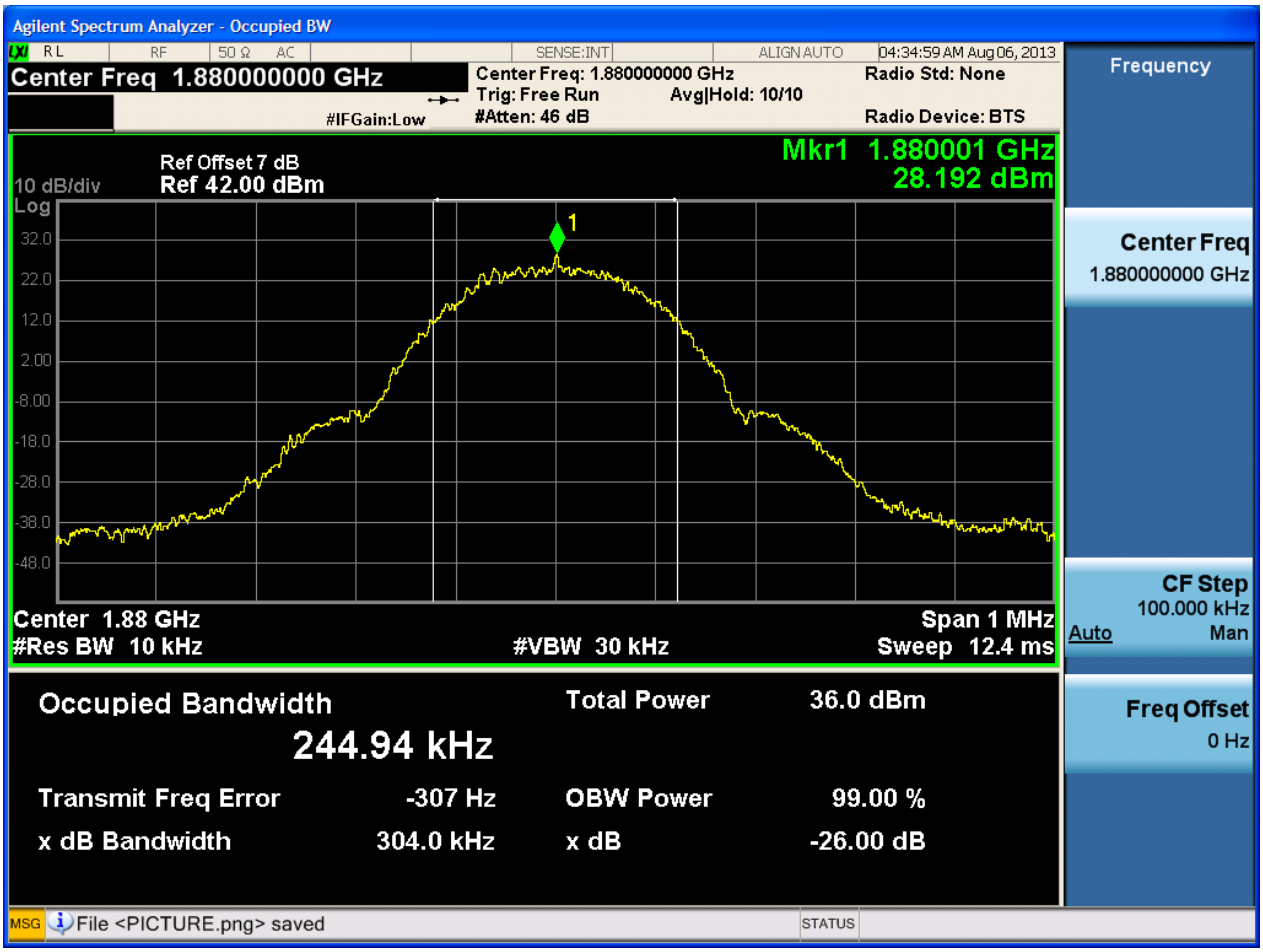
4.1.2.1.2 Test Channel = MCH



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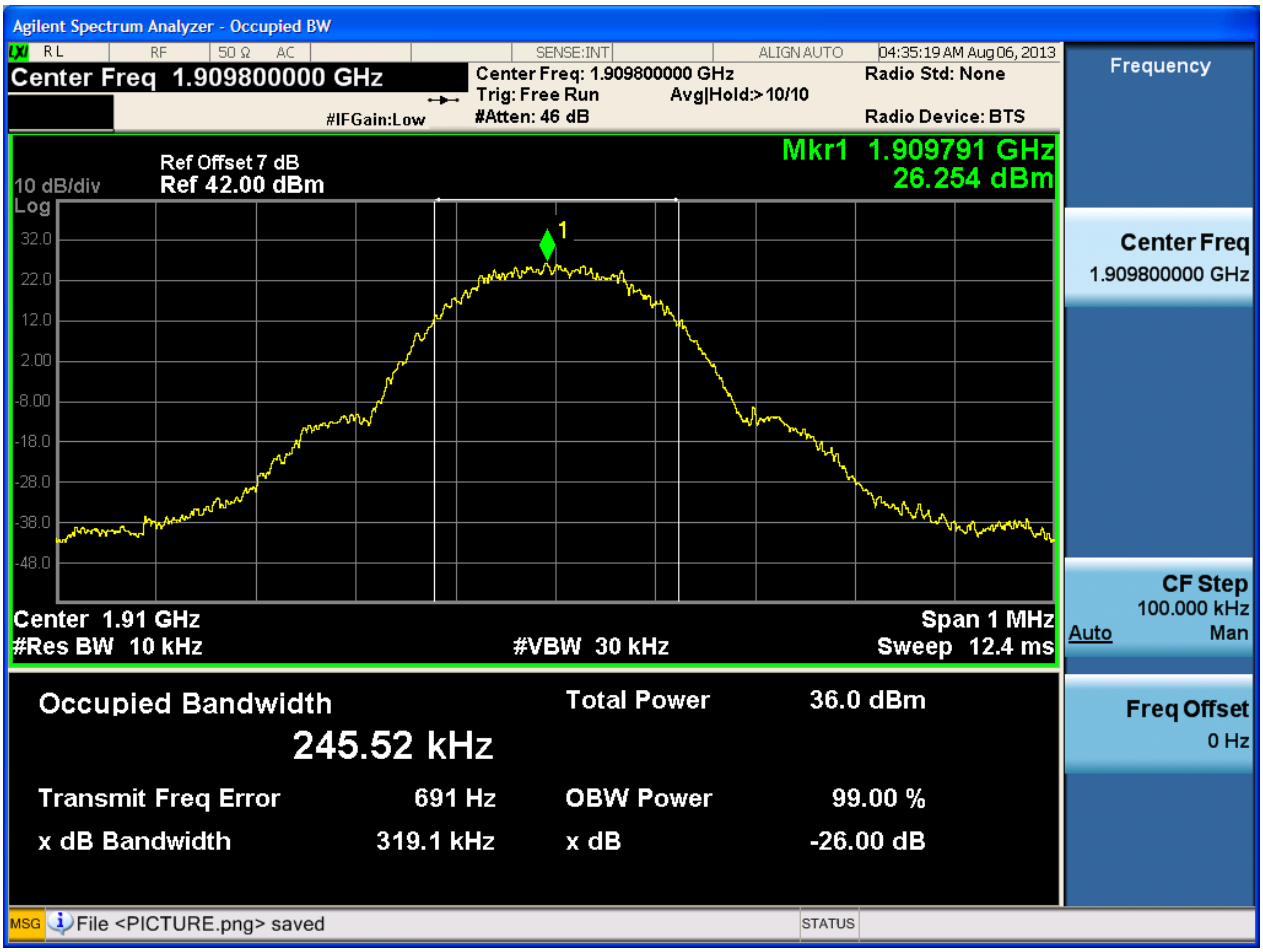
4.1.2.1.3 Test Channel = HCH



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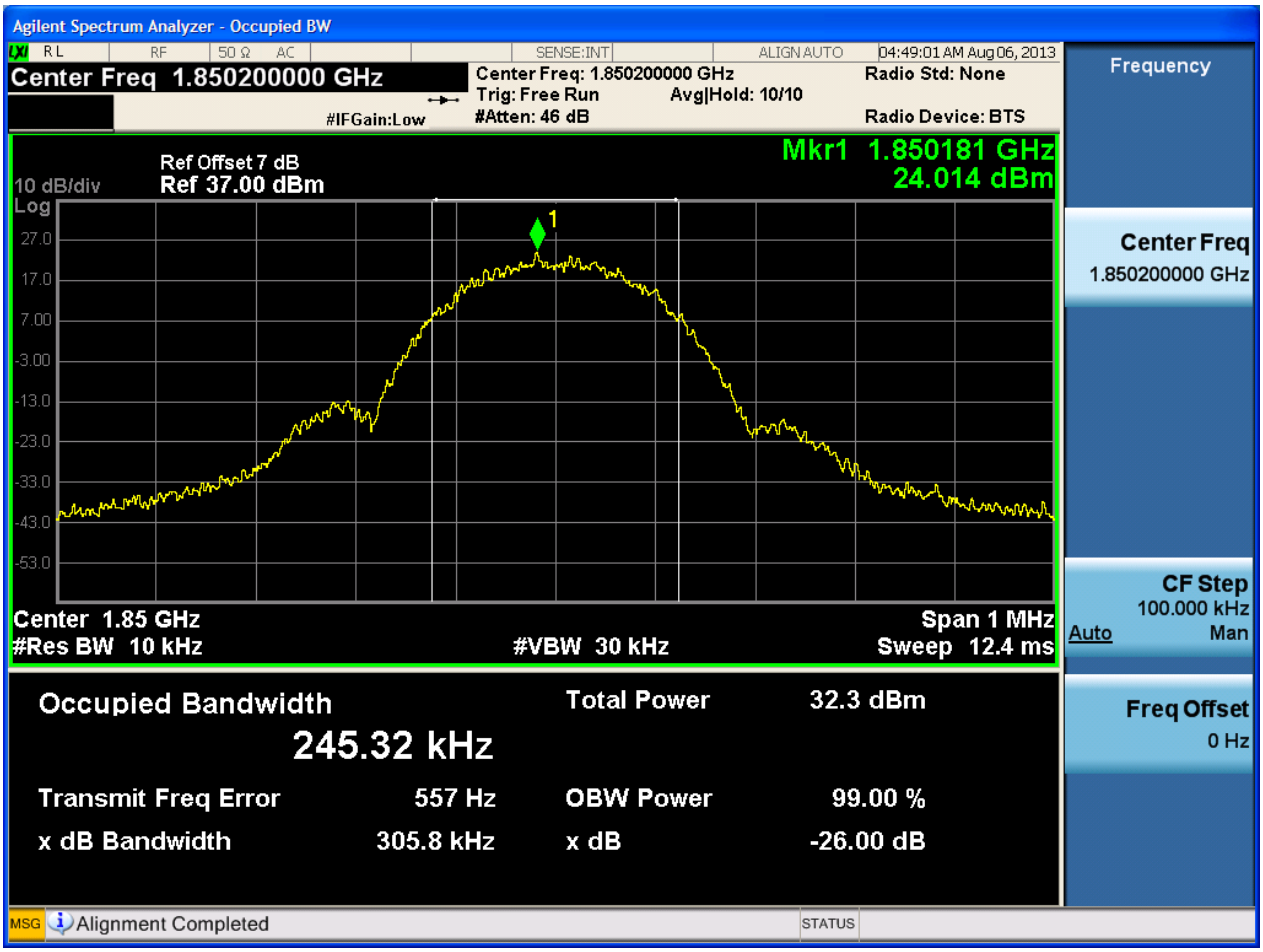
4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH



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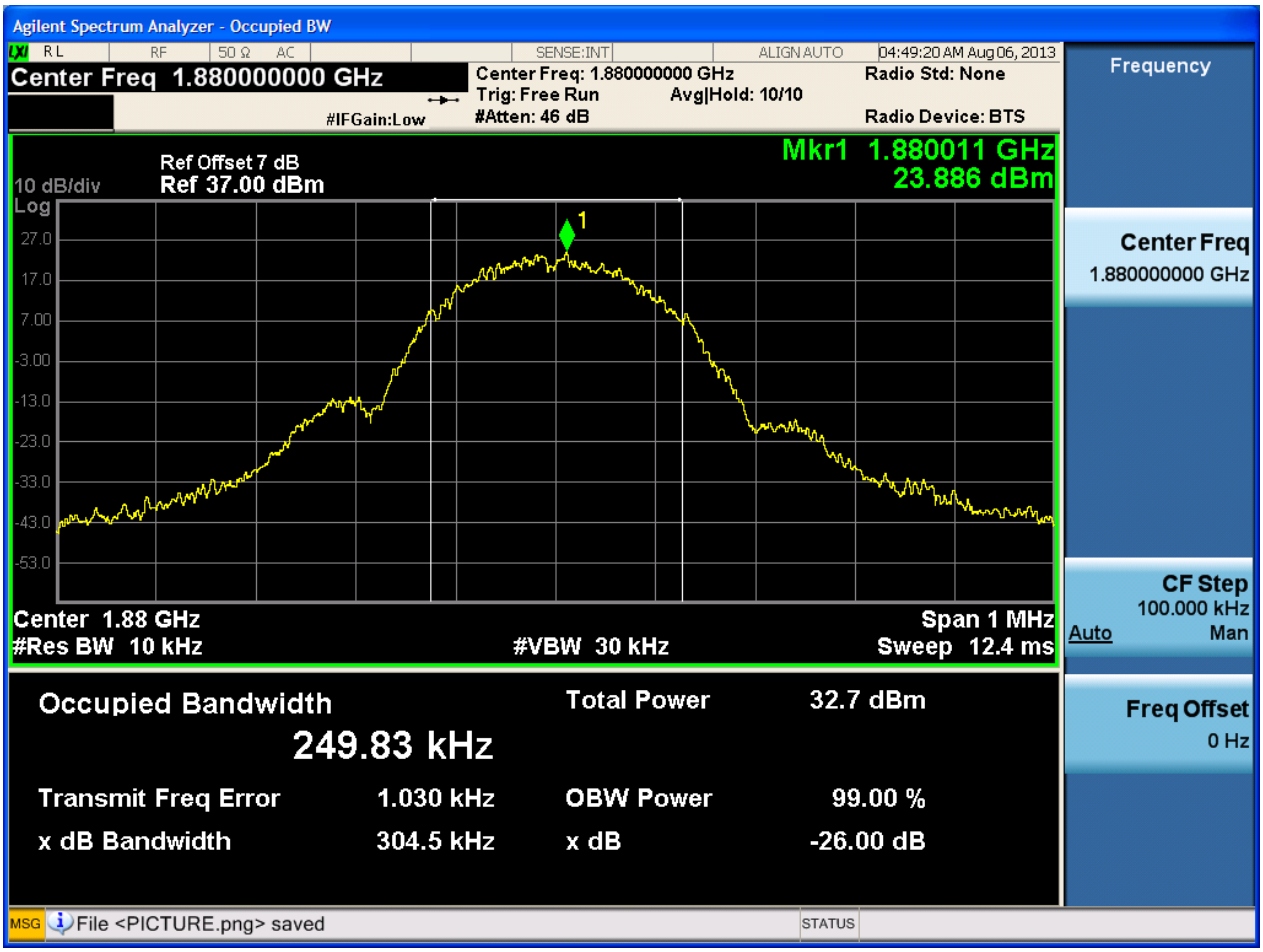
4.1.2.2.2 Test Channel = MCH



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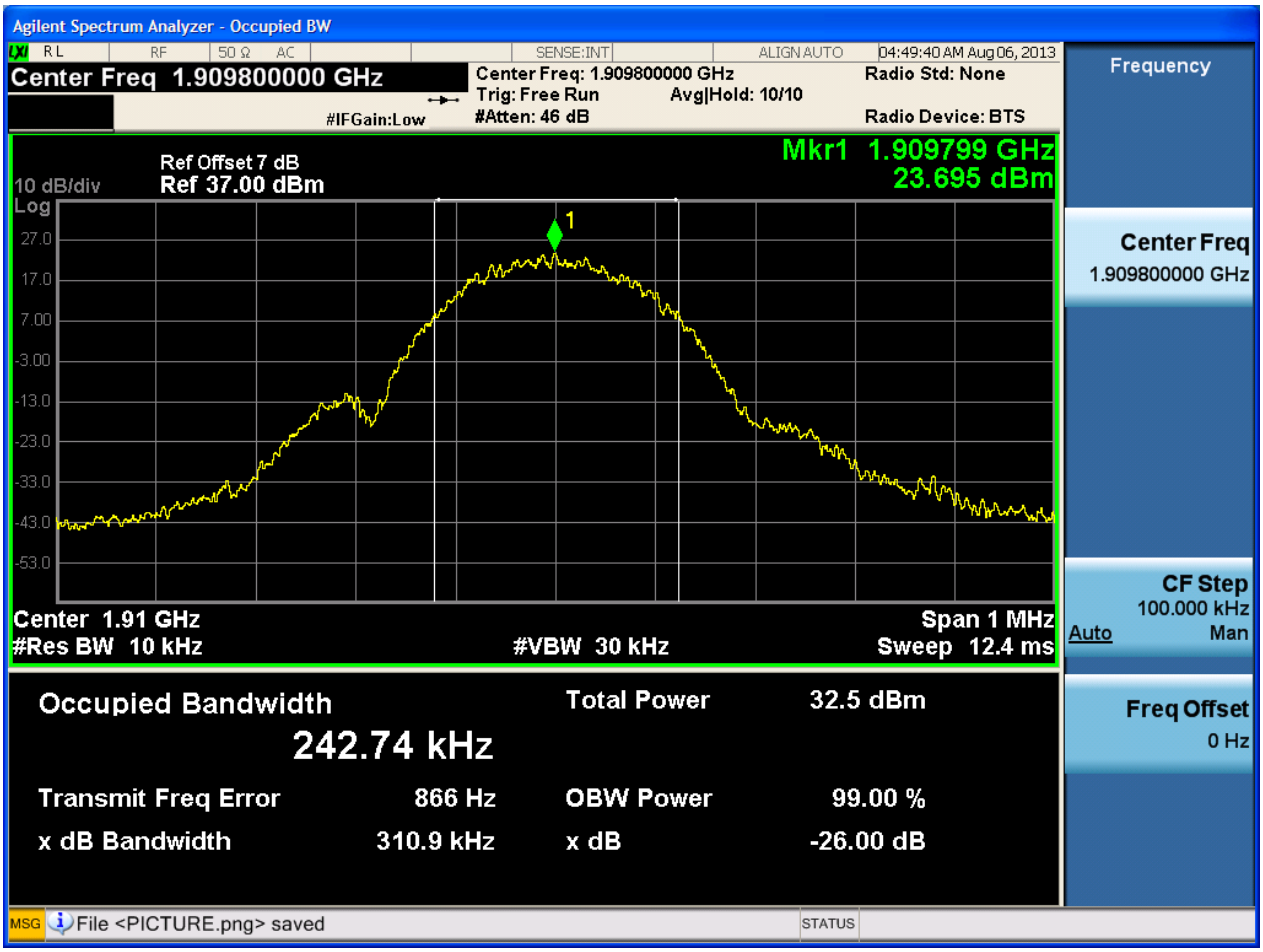
4.1.2.2.3 Test Channel = HCH



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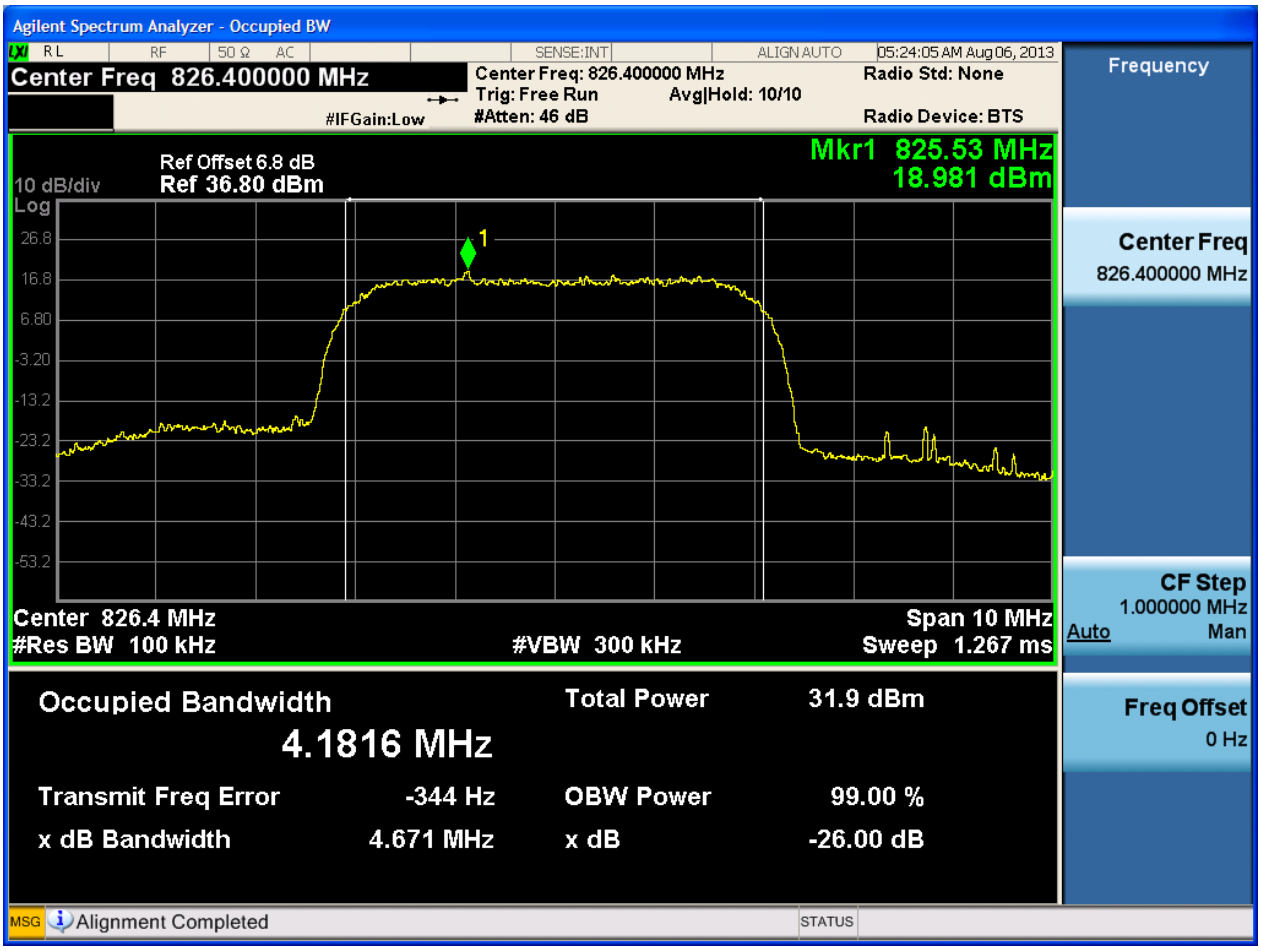
4.2 For UMTS

4.2.1 Test Band = WCDMA850

4.2.1.1 Test Mode = UMTS/TM1

4.2.1.1.1 Test Channel = LCH



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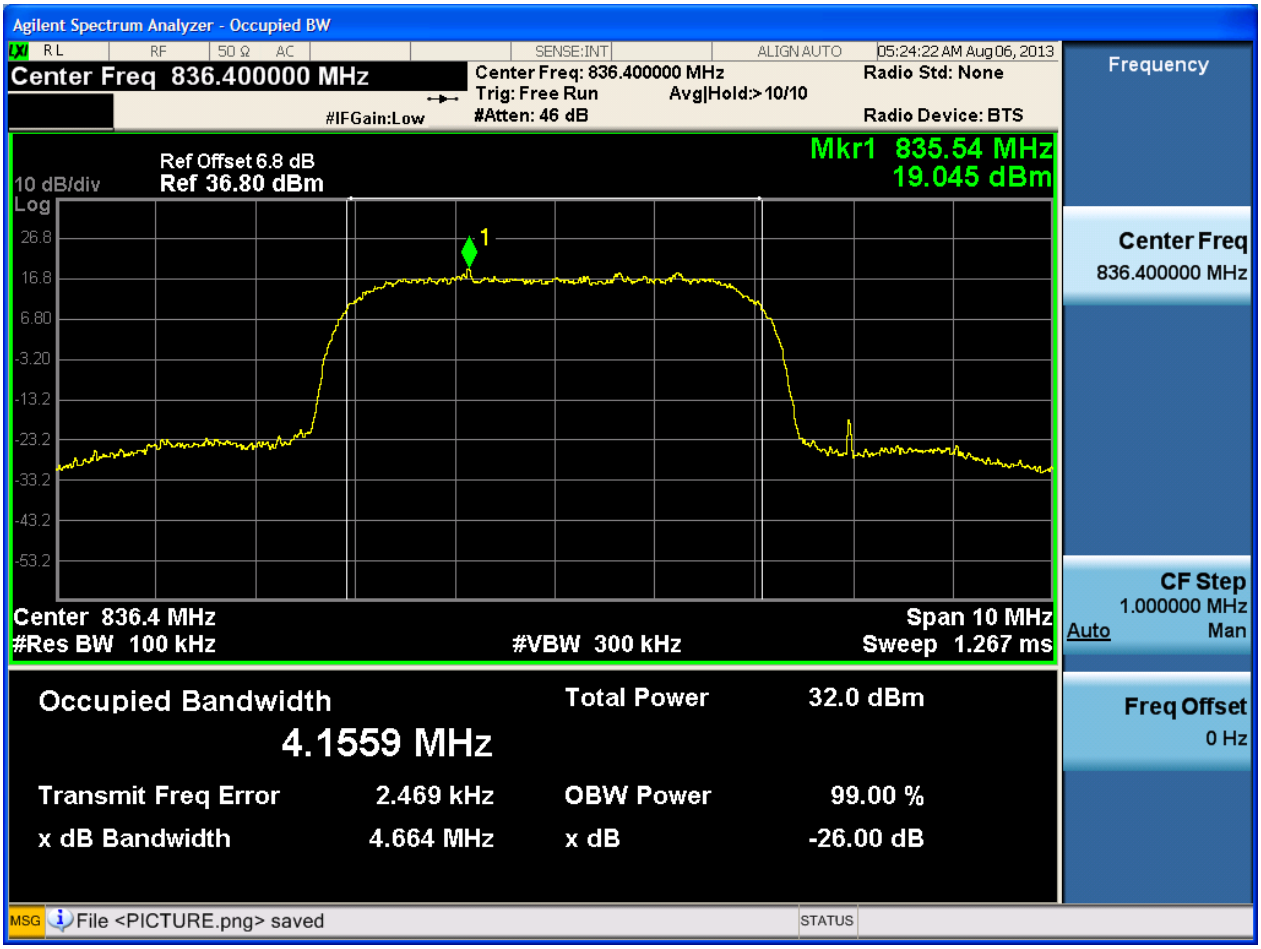
4.2.1.1.2 Test Channel = MCH



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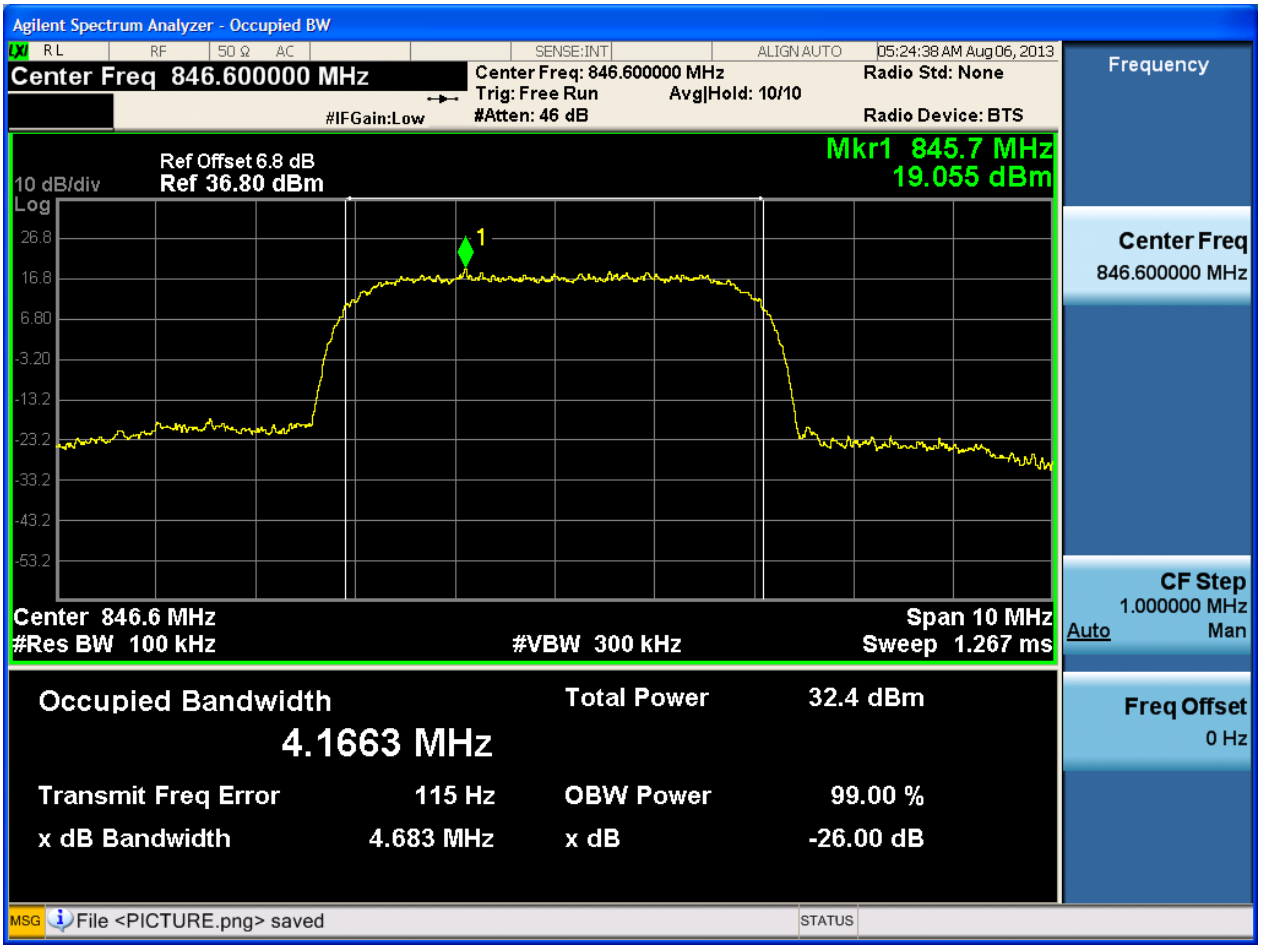
4.2.1.1.3 Test Channel = HCH



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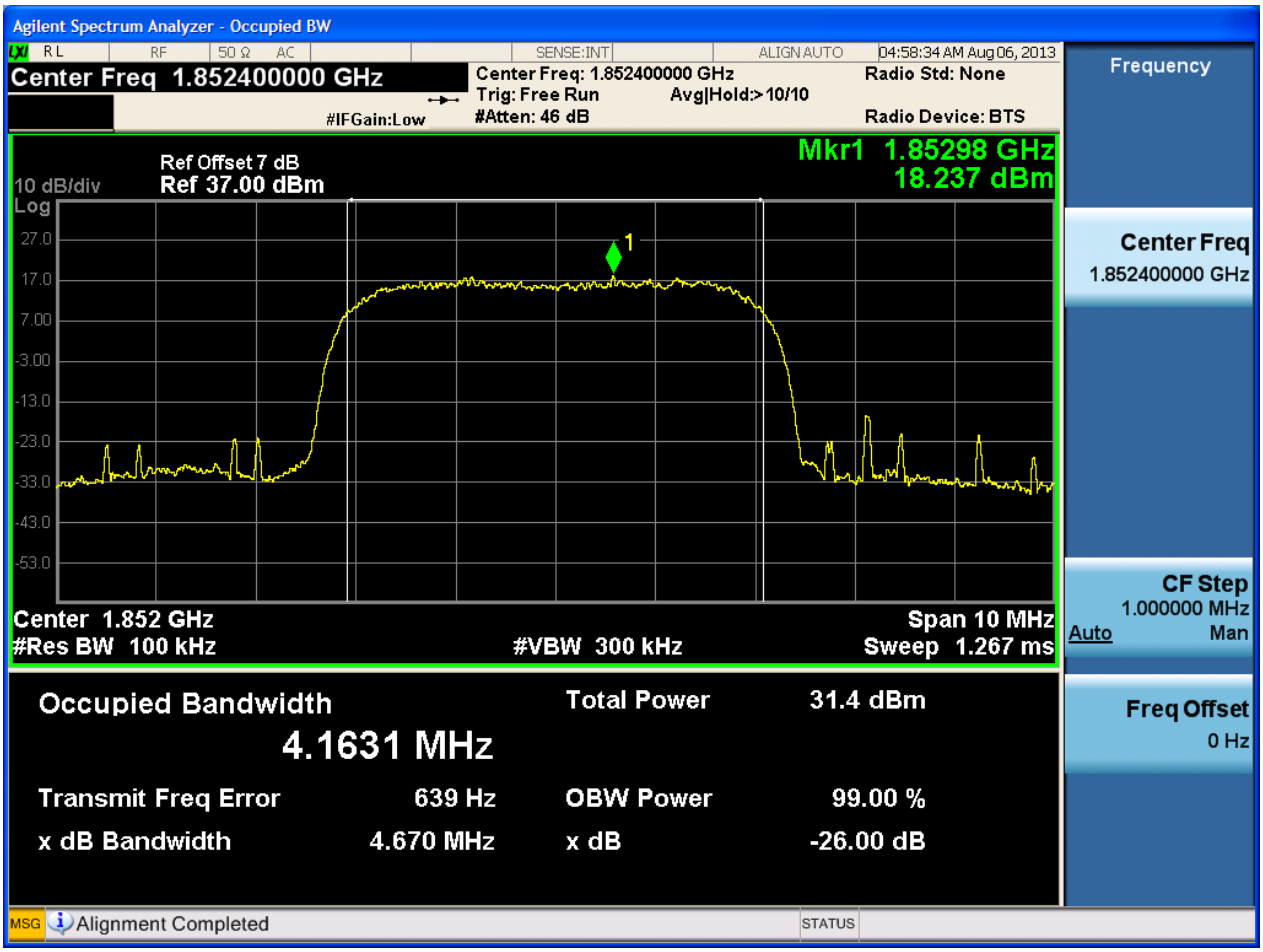
4.2.2 Test Band = WCDMA1900

4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH



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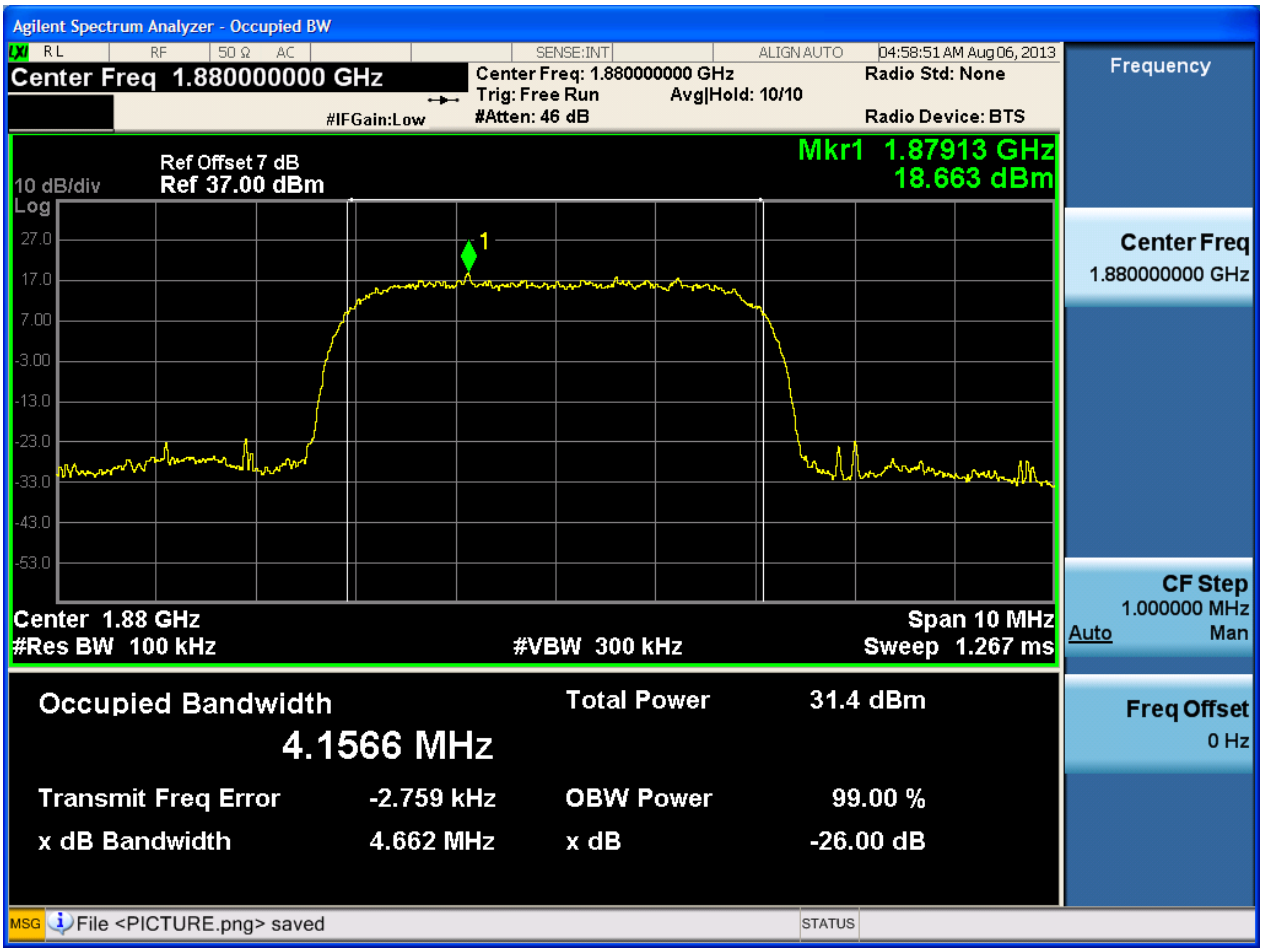
4.2.2.1.2 Test Channel = MCH



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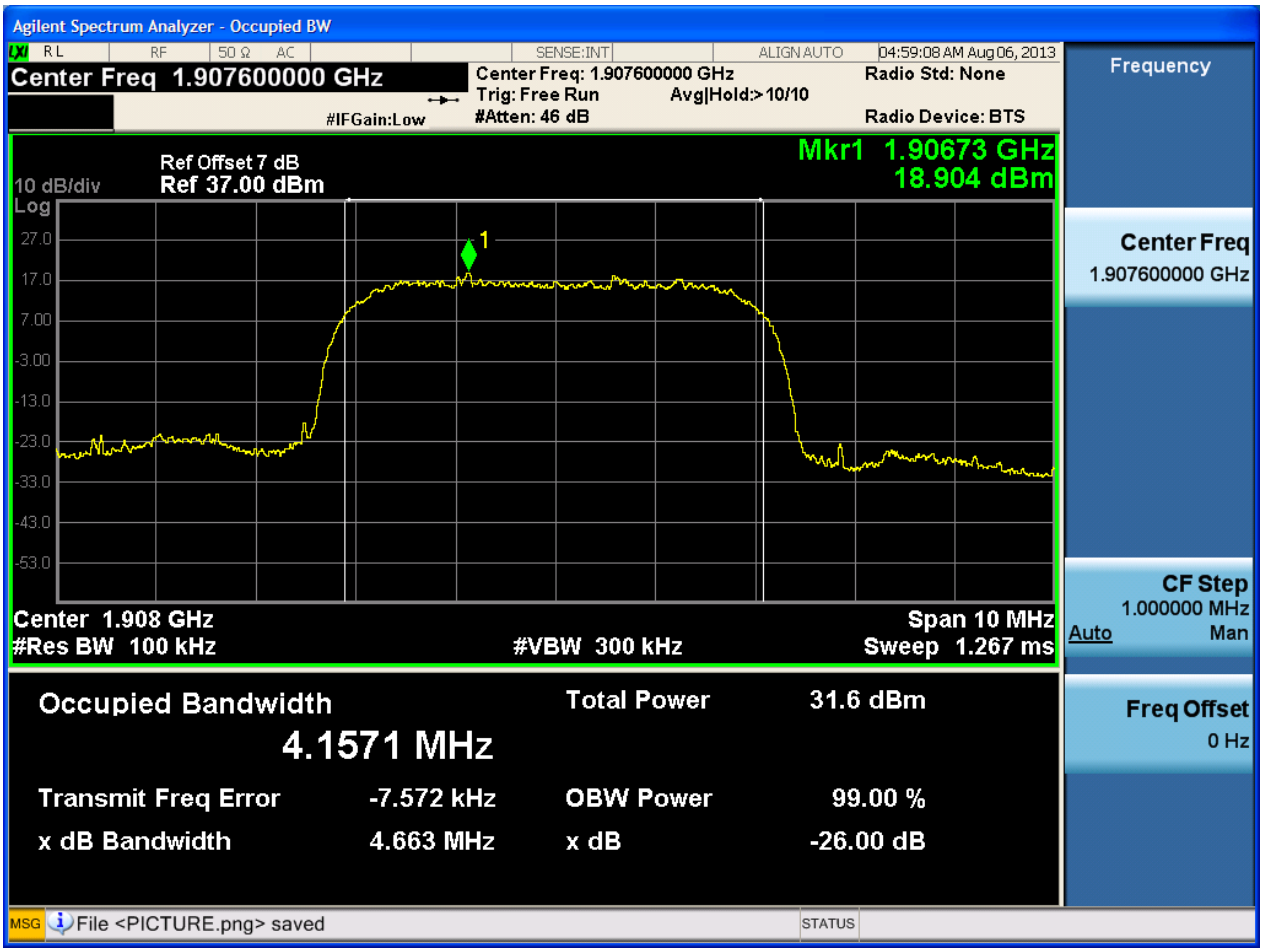
4.2.2.1.3 Test Channel = HCH



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5Appendix_E: Band Edges Compliance

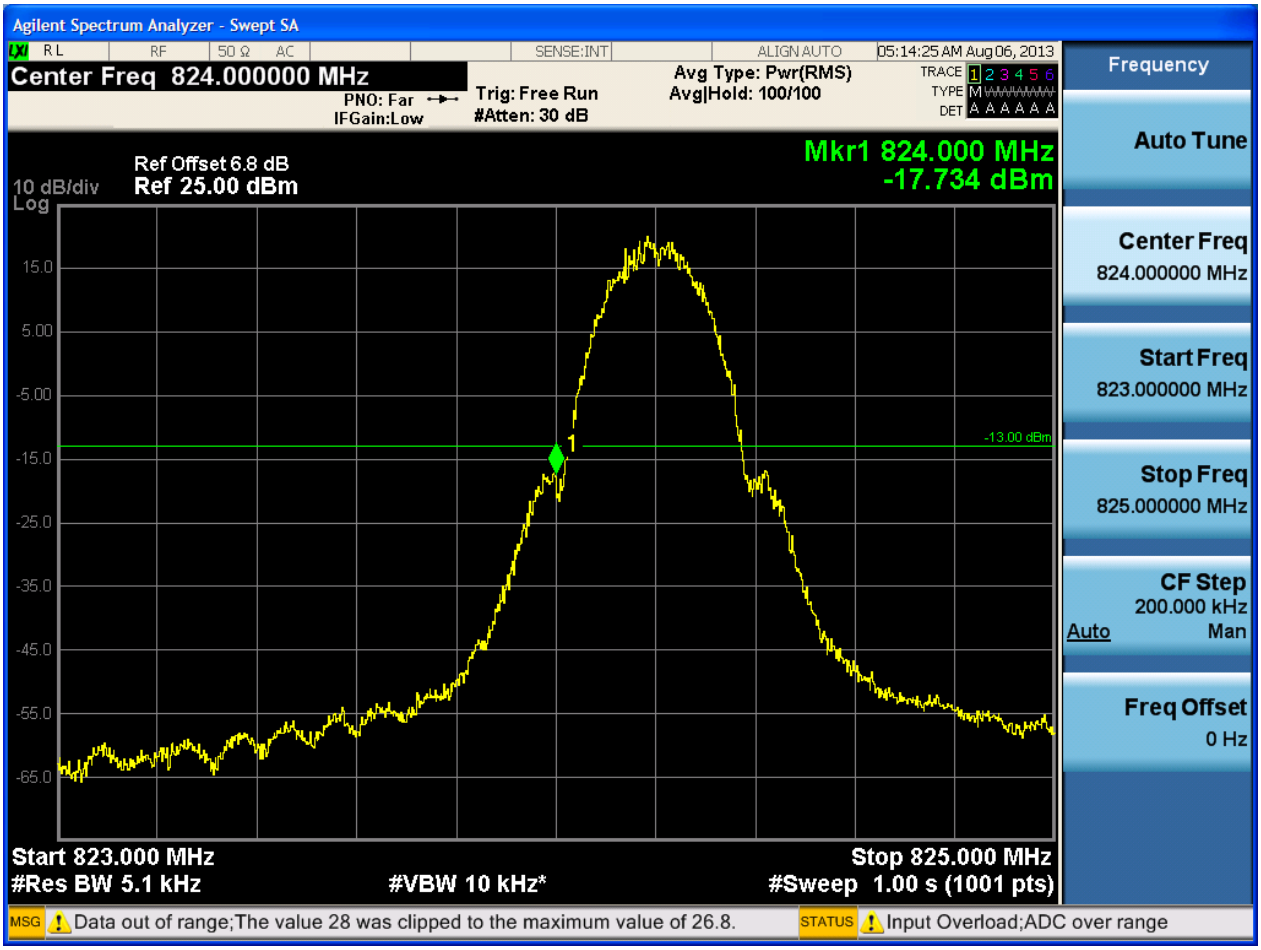
Part I - Test Plots

5.1 For GSM

5.1.1 Test Band = GSM850

5.1.1.1 Test Mode = GSM/TM1

5.1.1.1.1 Test Channel = LCH



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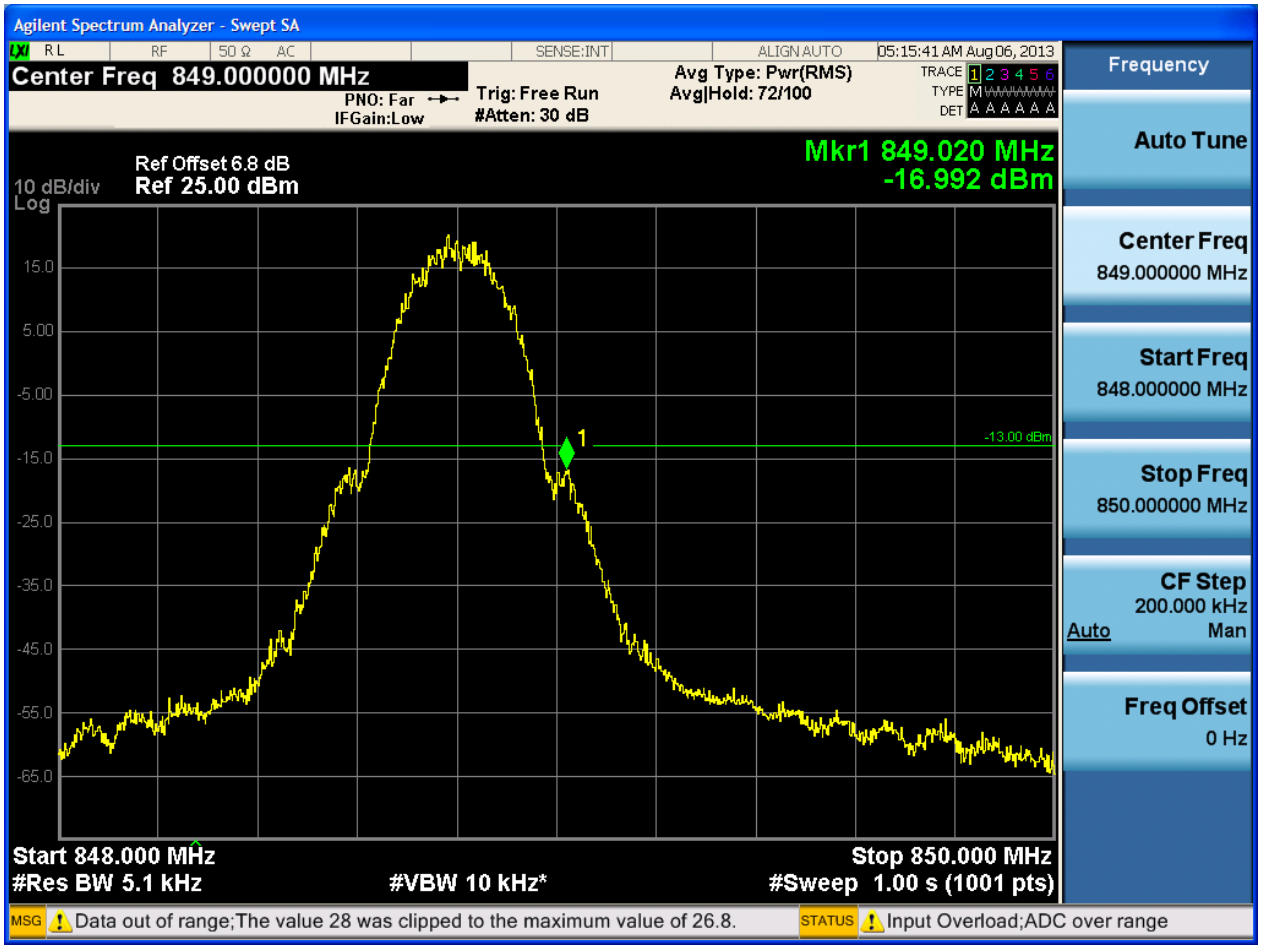
5.1.1.1.2 Test Channel = HCH



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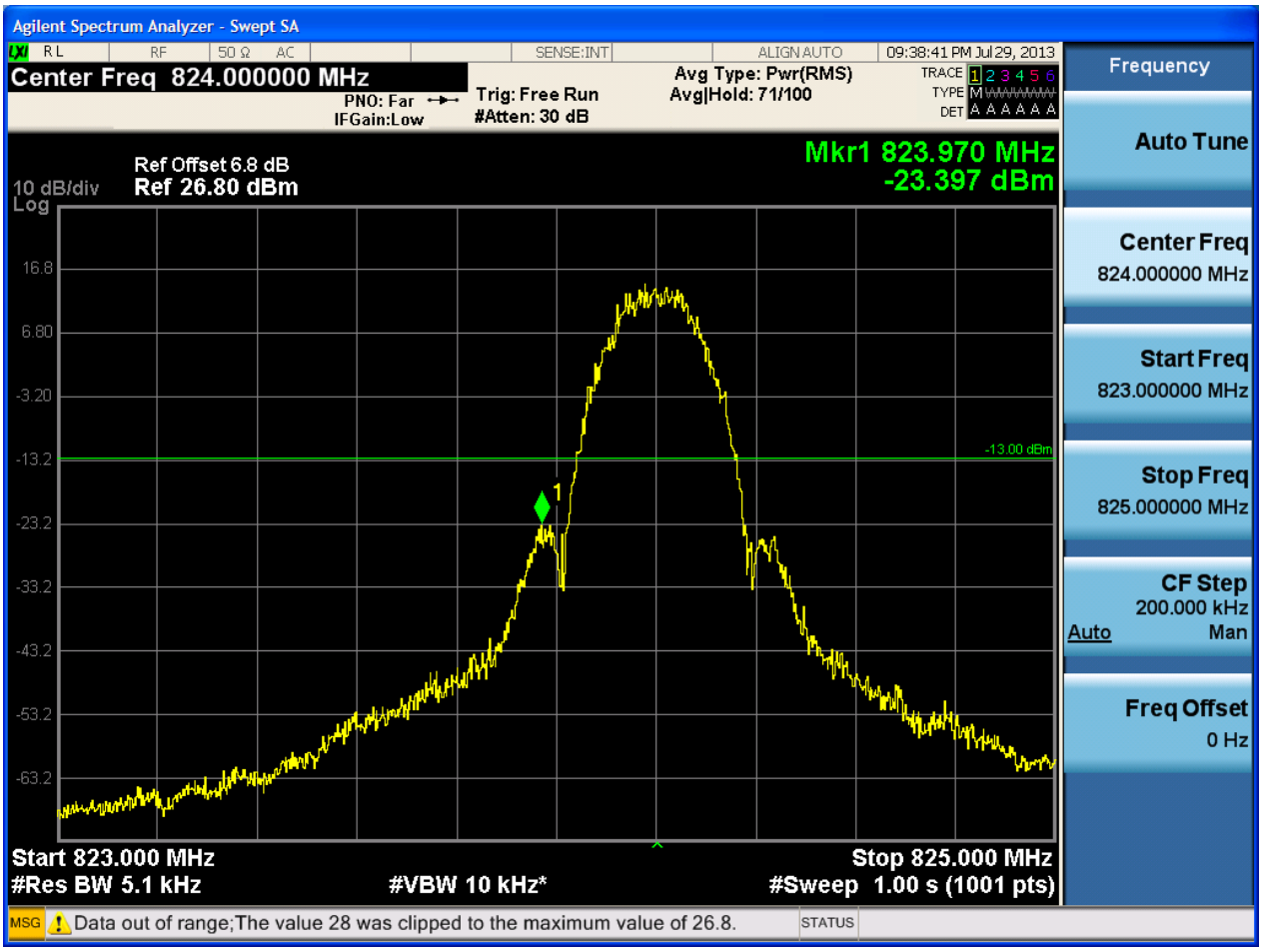
5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH



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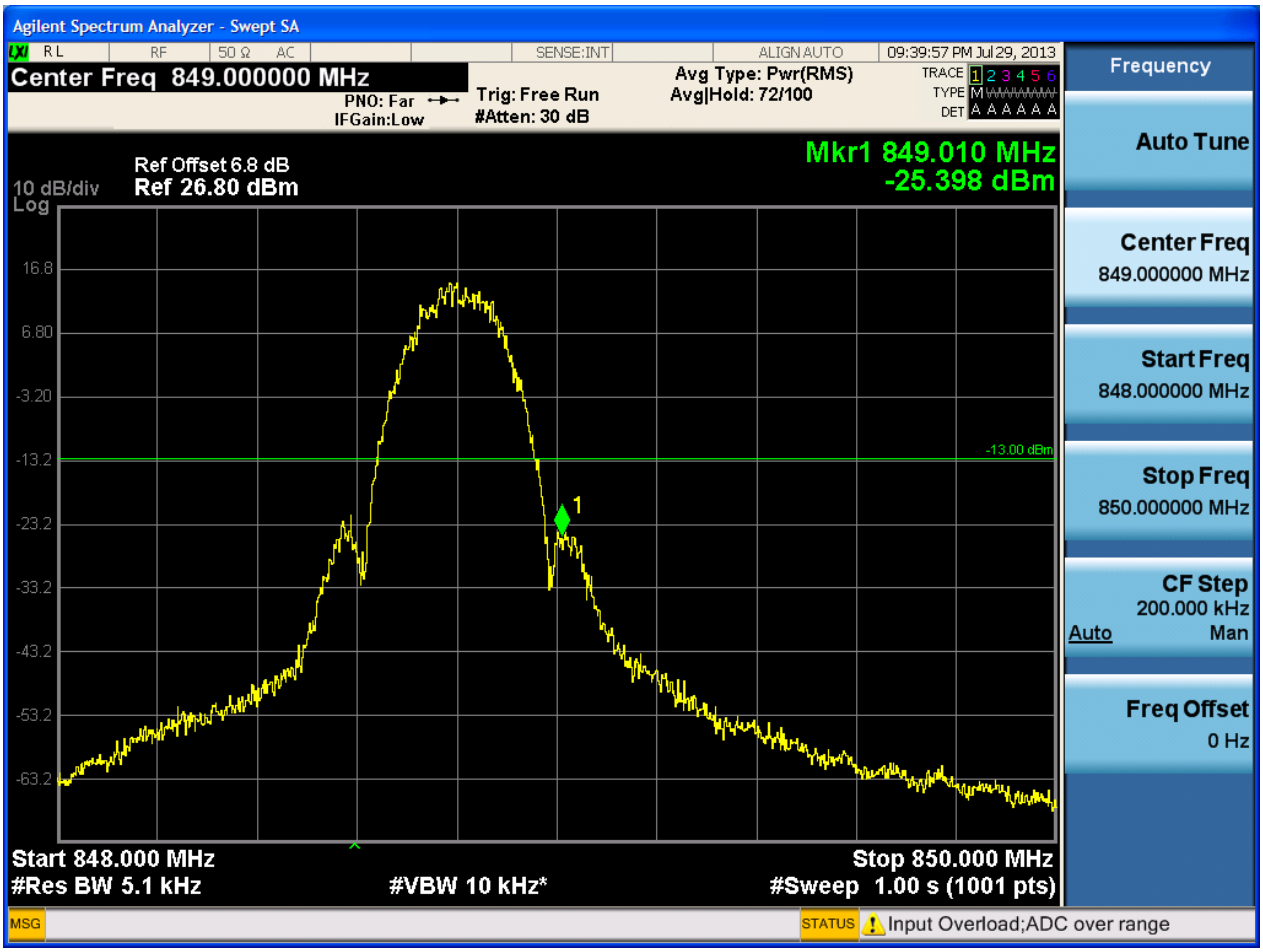
5.1.1.2.2 Test Channel = HCH



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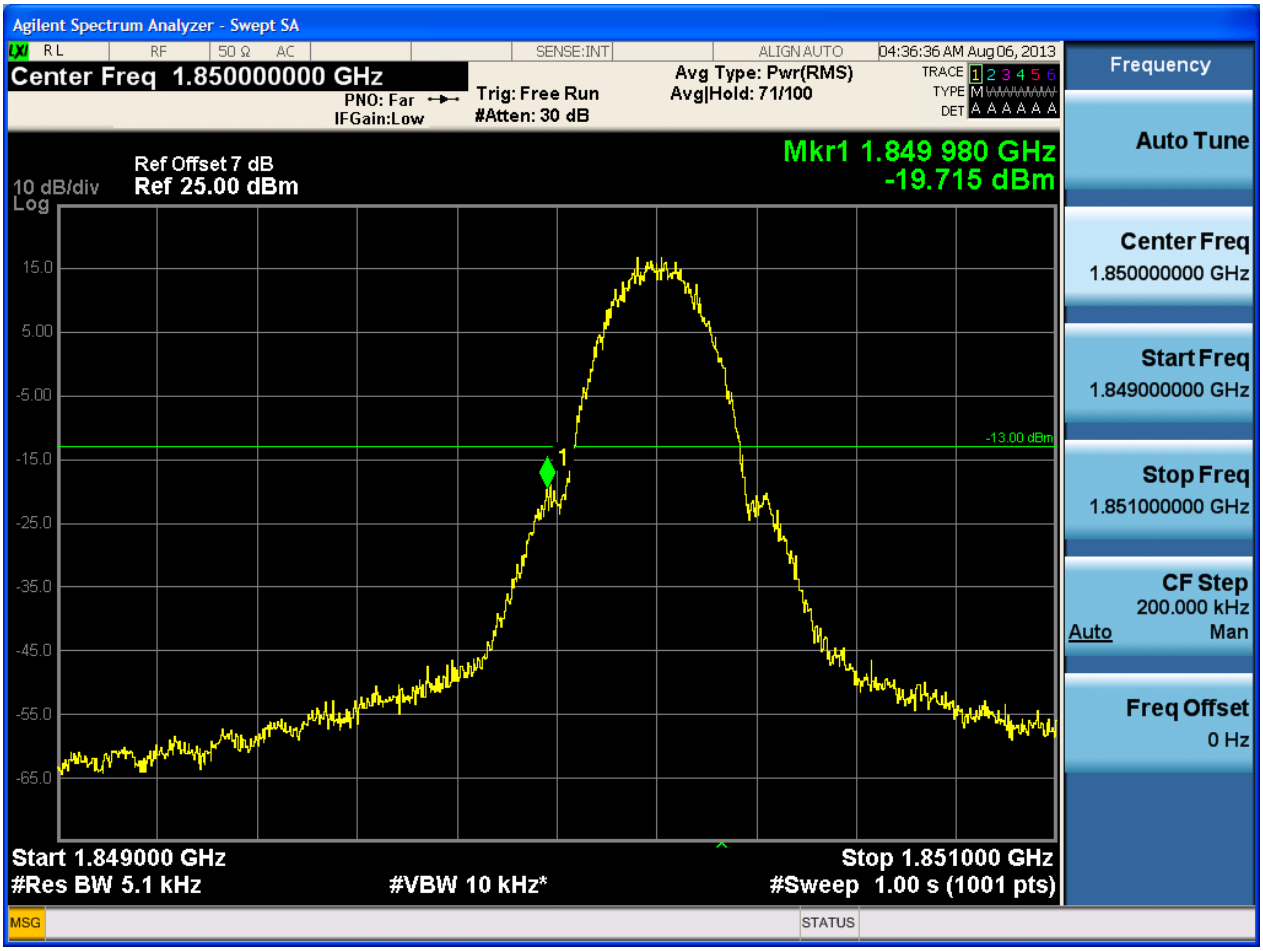
5.1.2 Test Band = GSM1900

5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH



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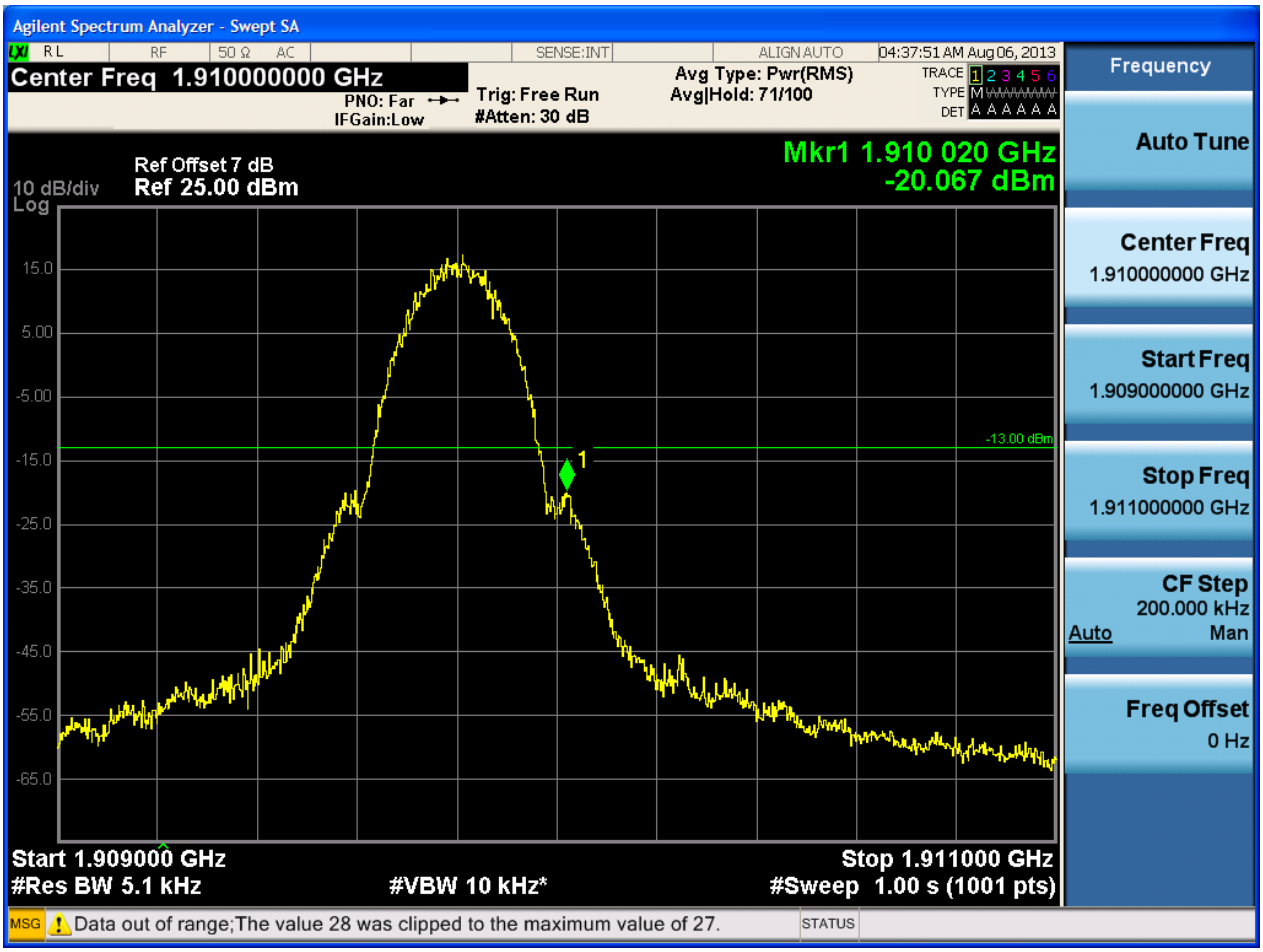
5.1.2.1.2 Test Channel = HCH



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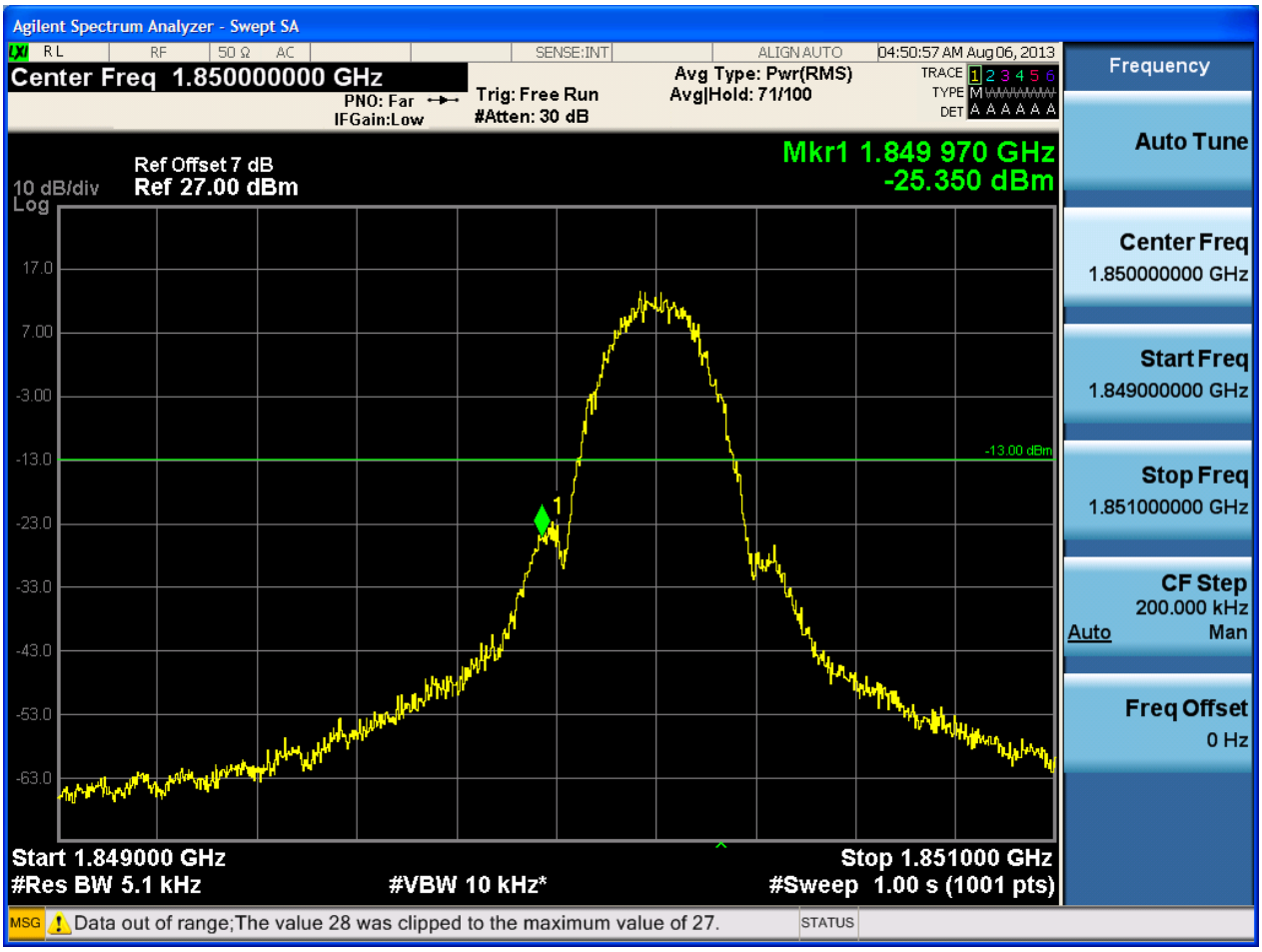
5.1.2.2 Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH



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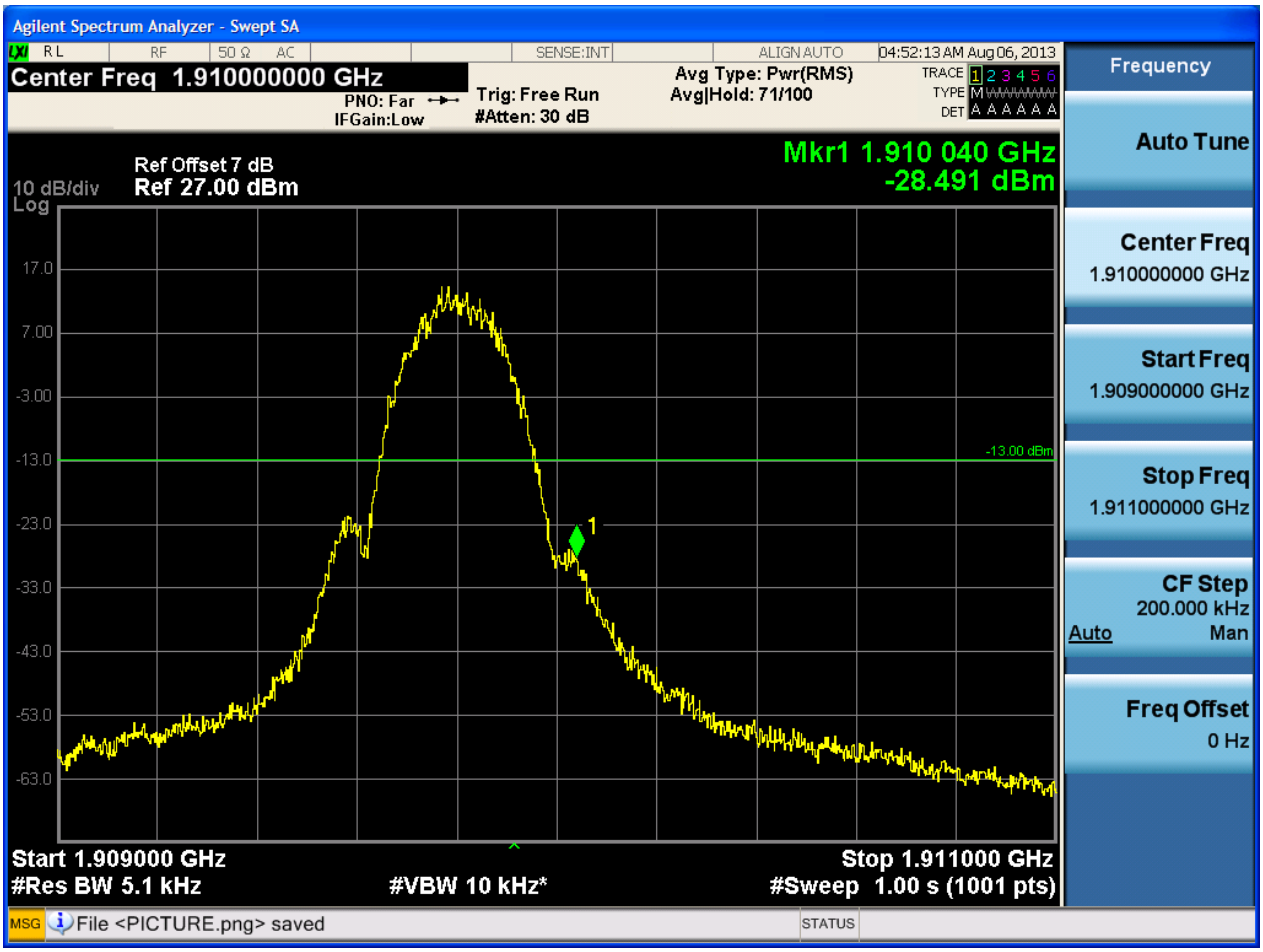
5.1.2.2.2 Test Channel = HCH



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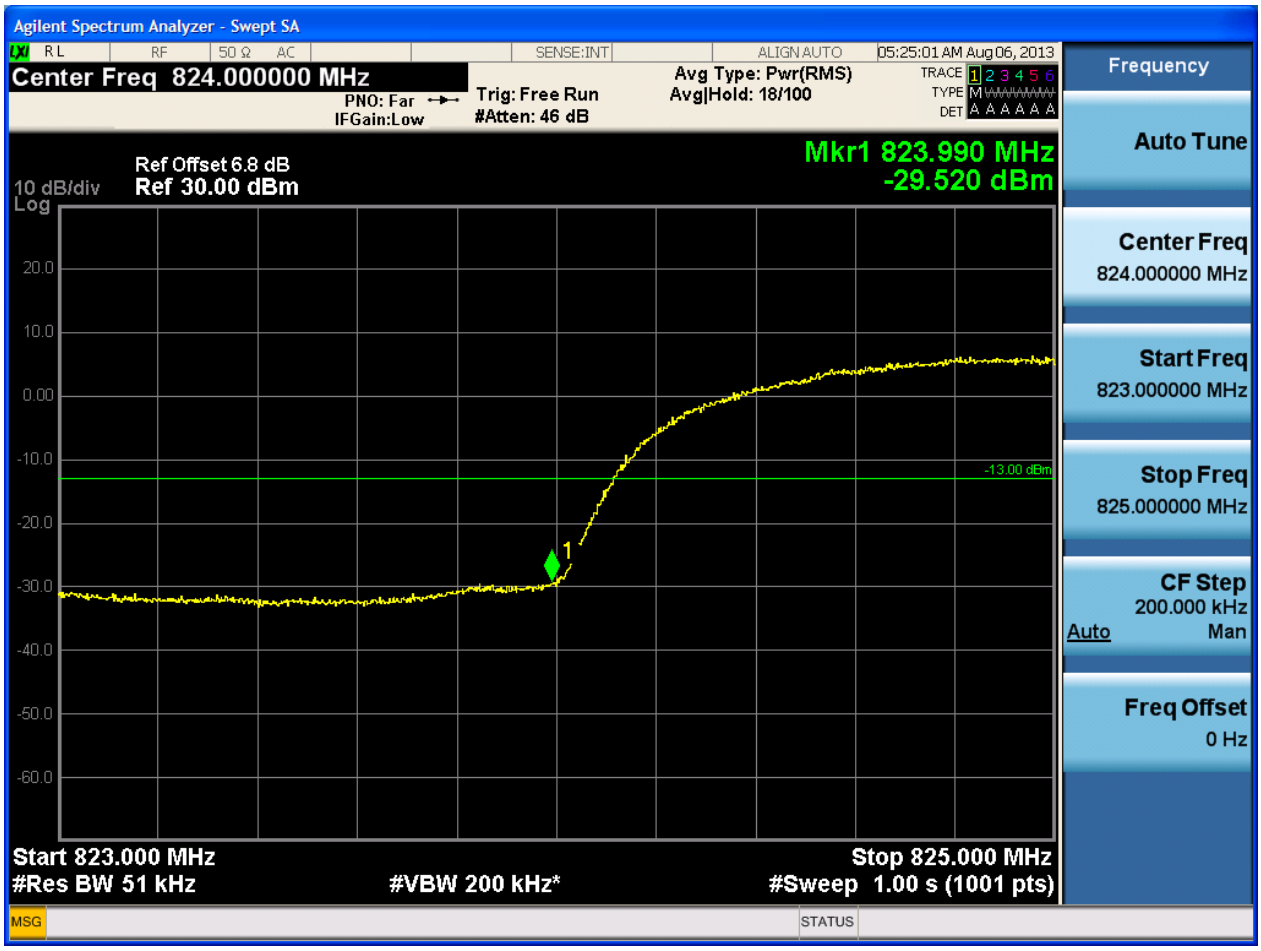
5.2 For UMTS

5.2.1 Test Band = WCDMA850

5.2.1.1 Test Mode = UMTS/TM1

5.2.1.1.1 Test Channel = LCH



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5.2.1.1.2 Test Channel = HCH

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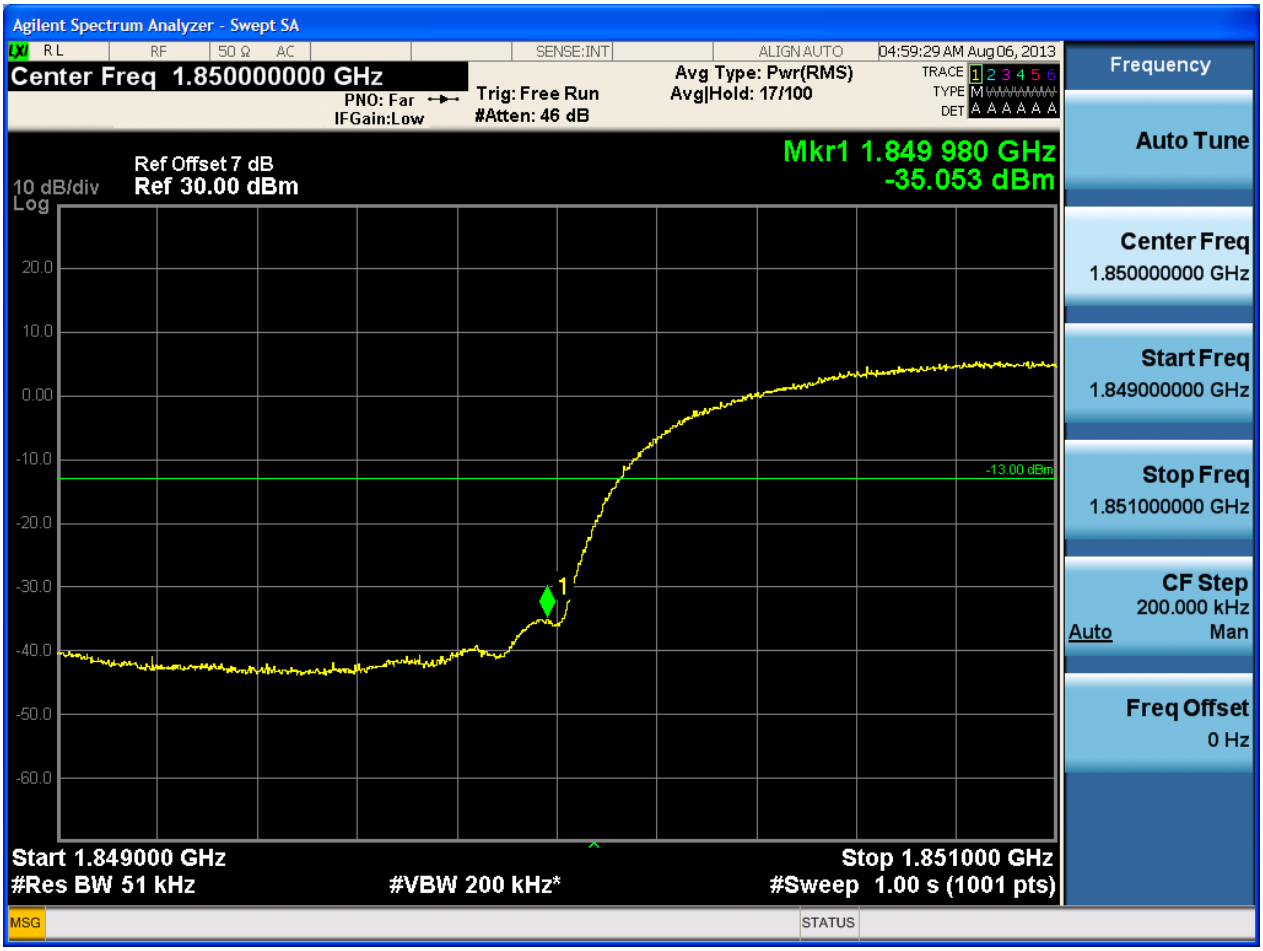
5.2.2 Test Band = WCDMA1900

5.2.2.1 Test Mode = UMTS/TM1

5.2.2.1.1 Test Channel = LCH



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5.2.2.1.2 Test Channel = HCH

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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.

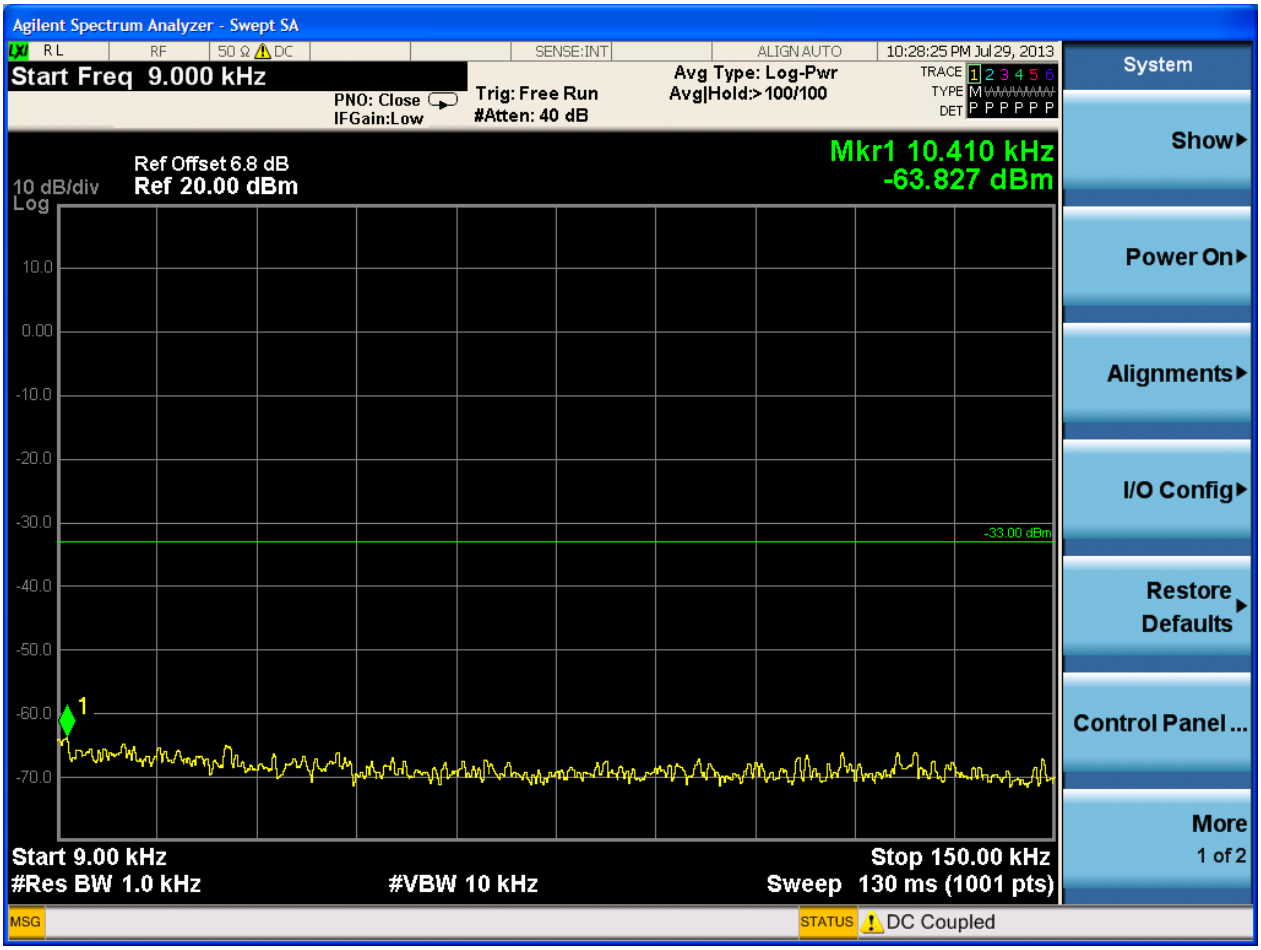
Part I - Test Plots

6.1 For GSM

6.1.1 Test Band = GSM850

6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



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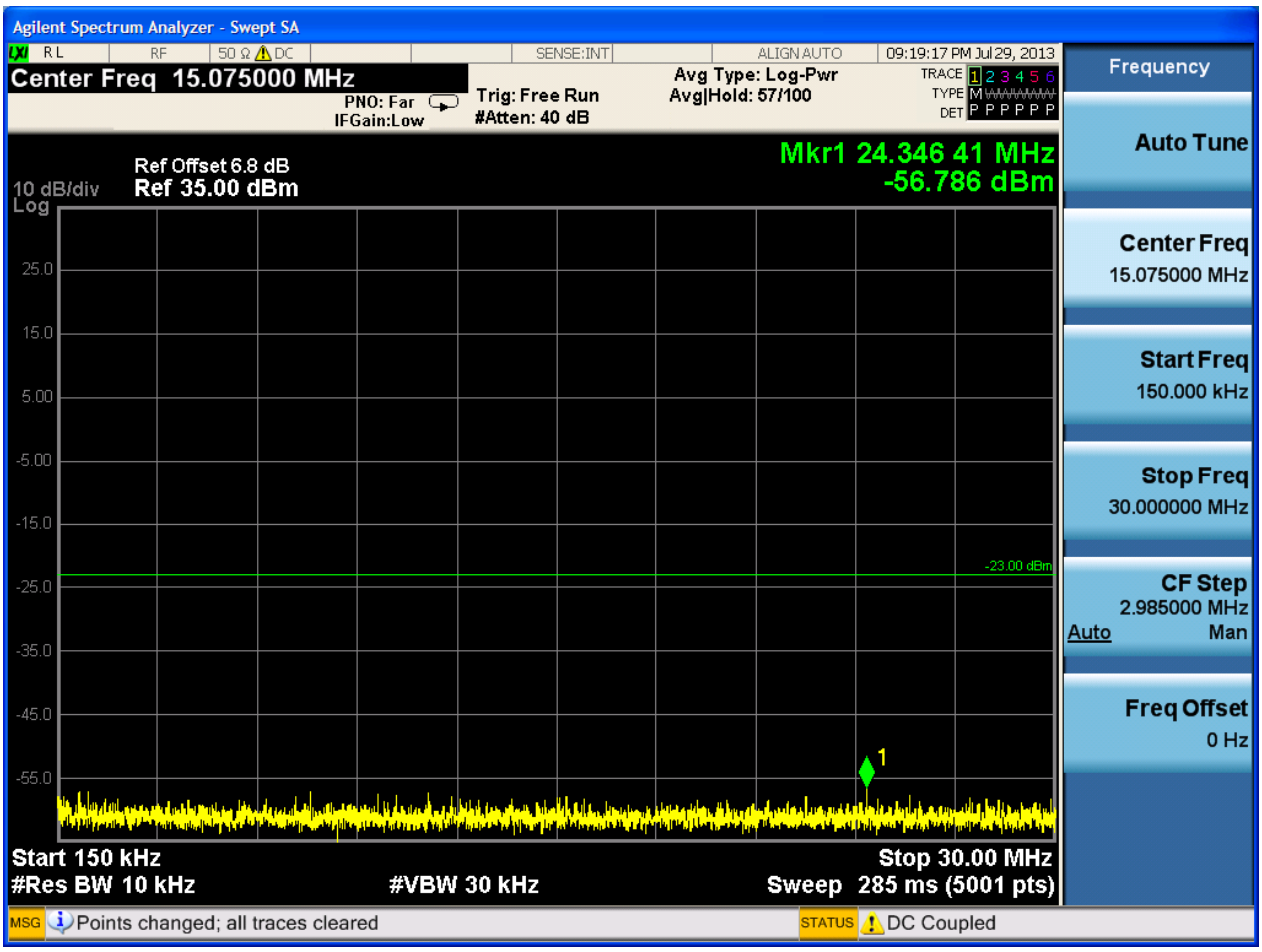

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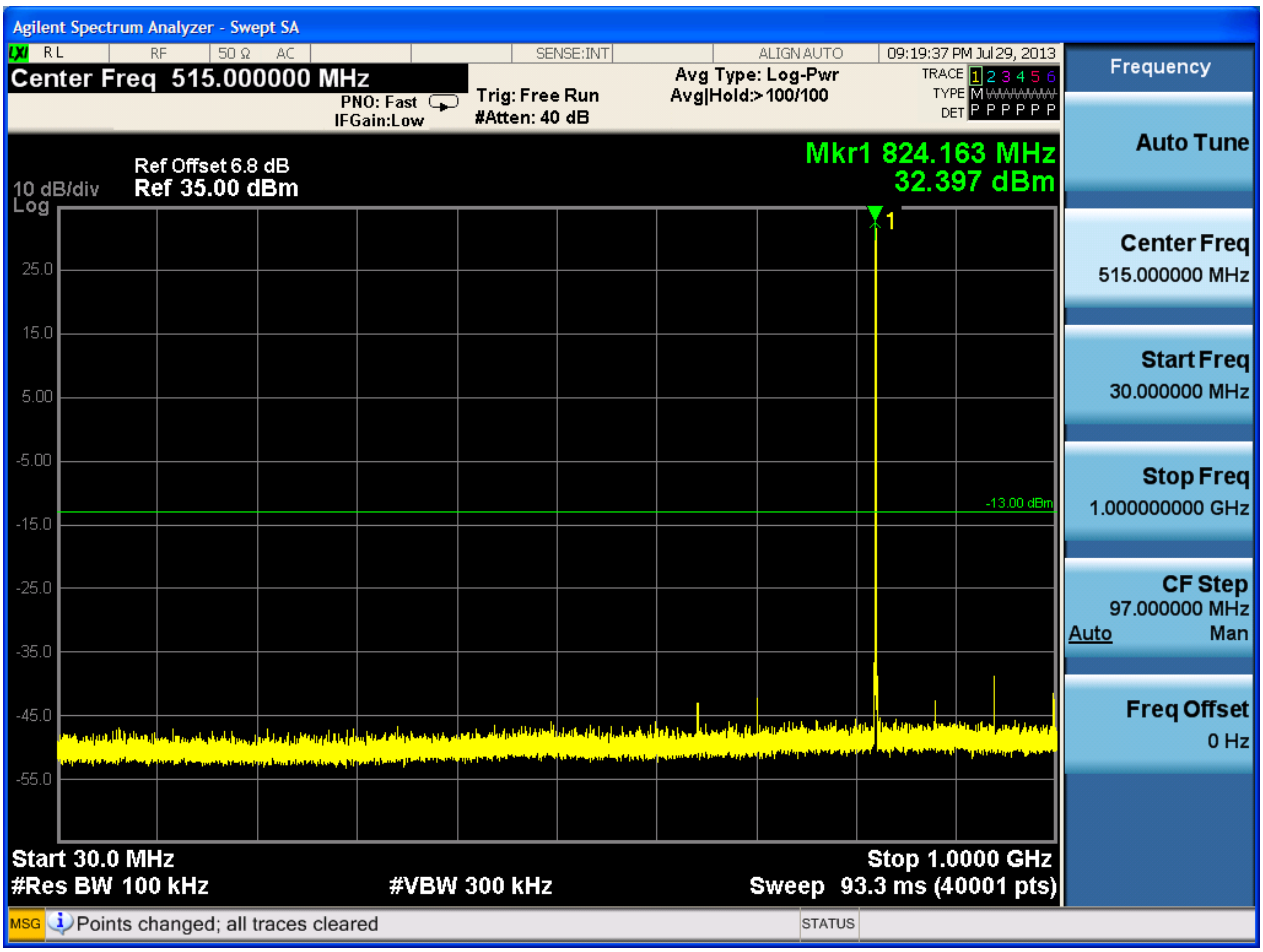

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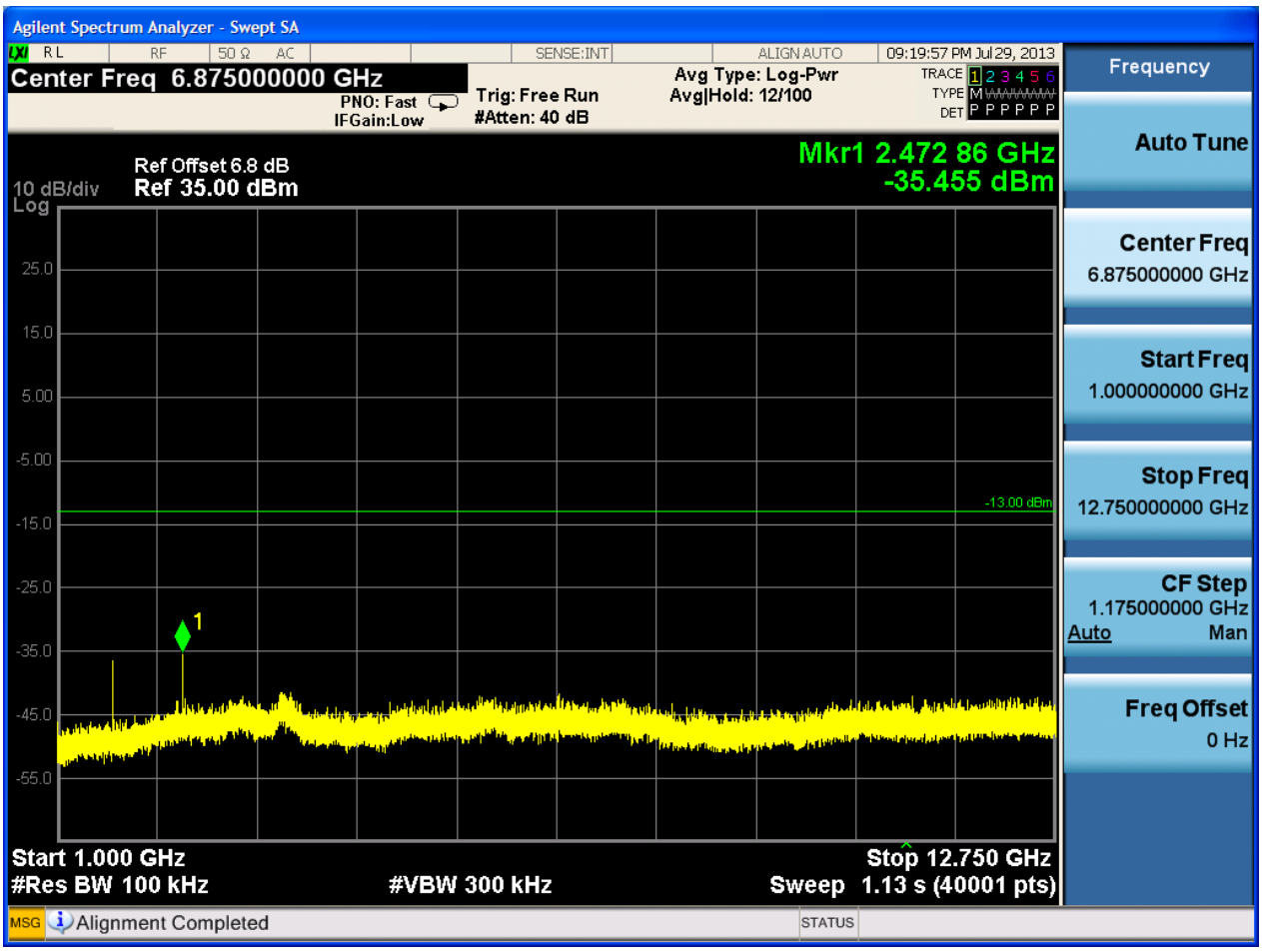

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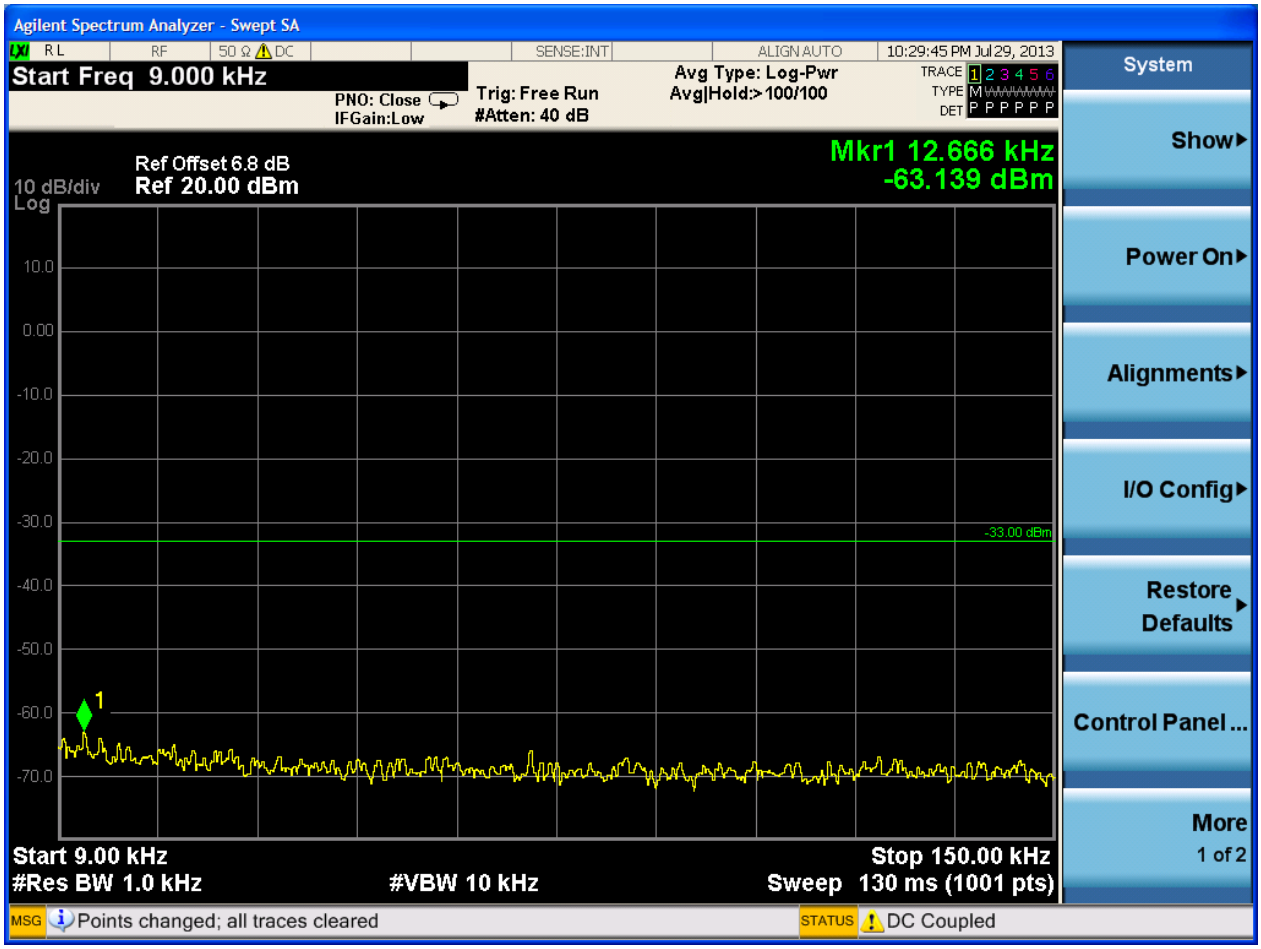
6.1.1.1.2 Test Channel = MCH



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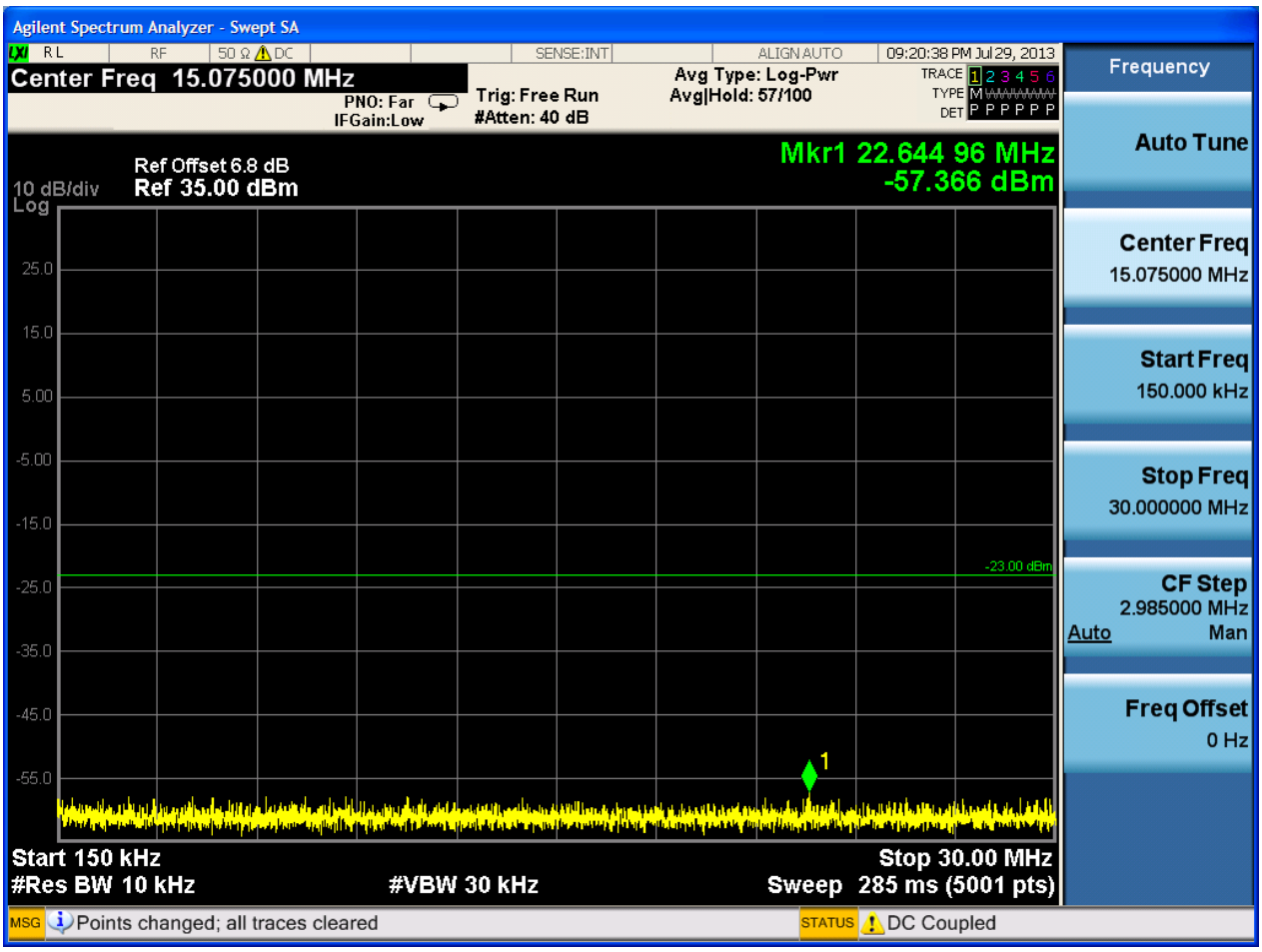

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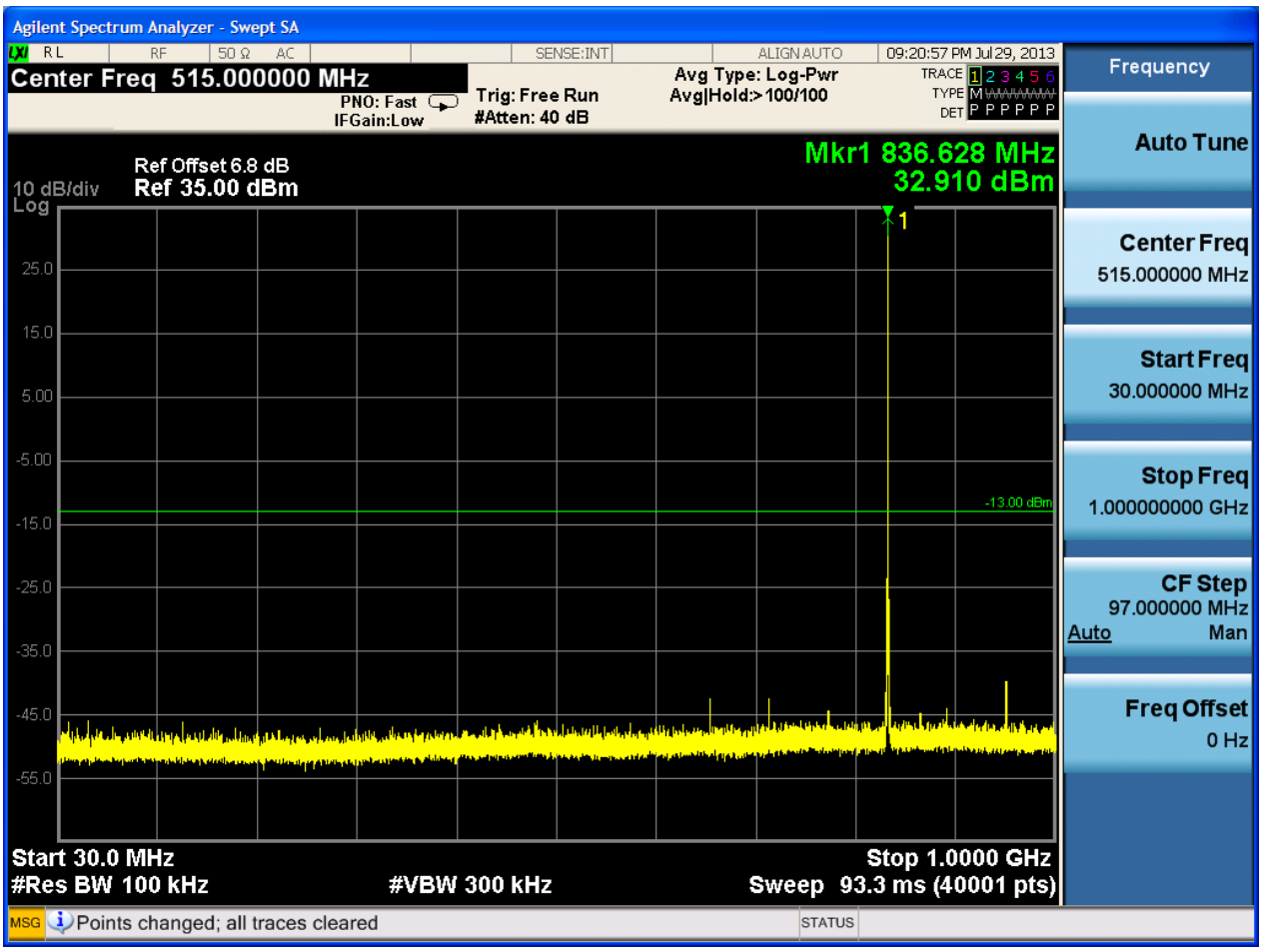

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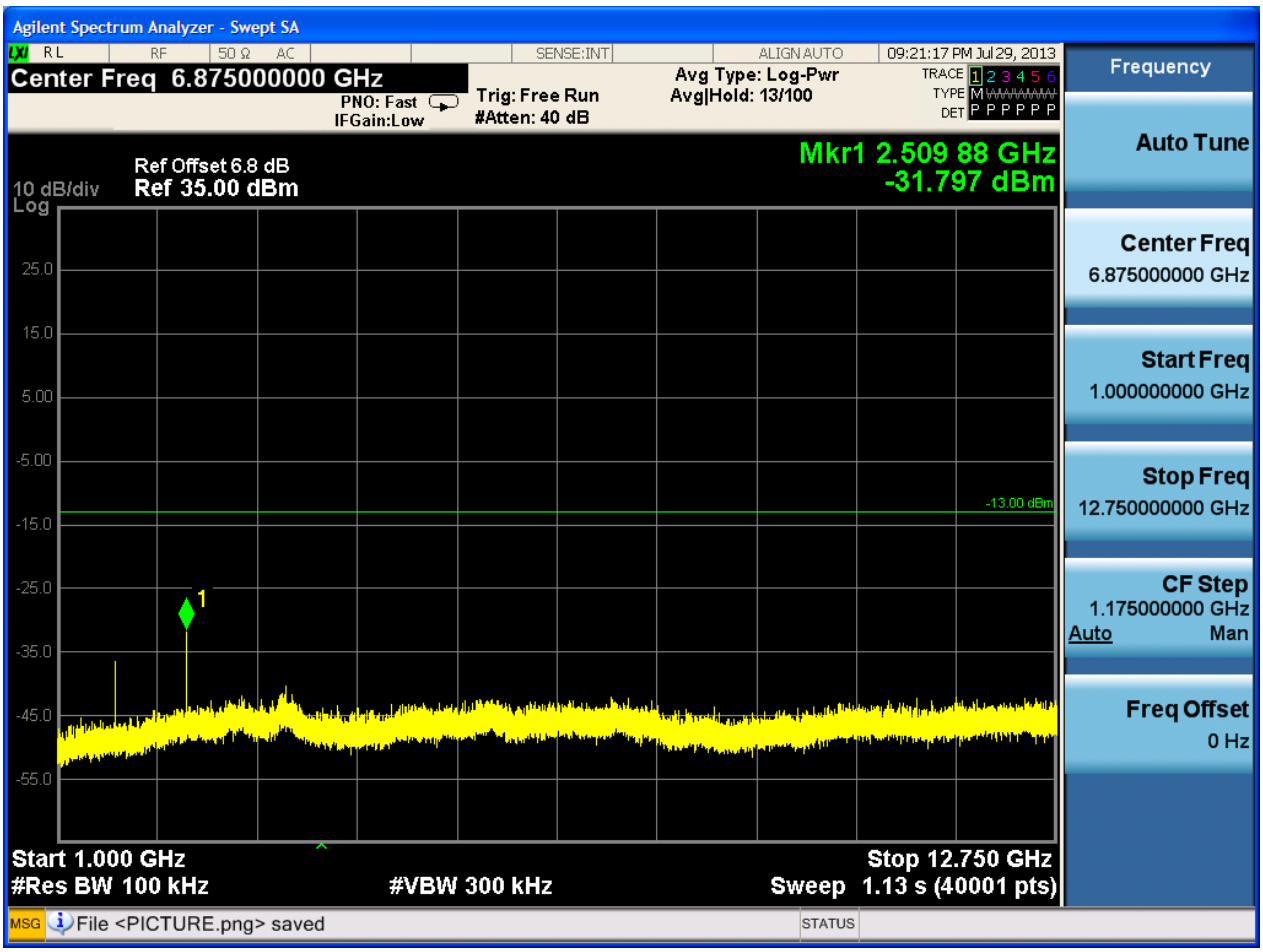

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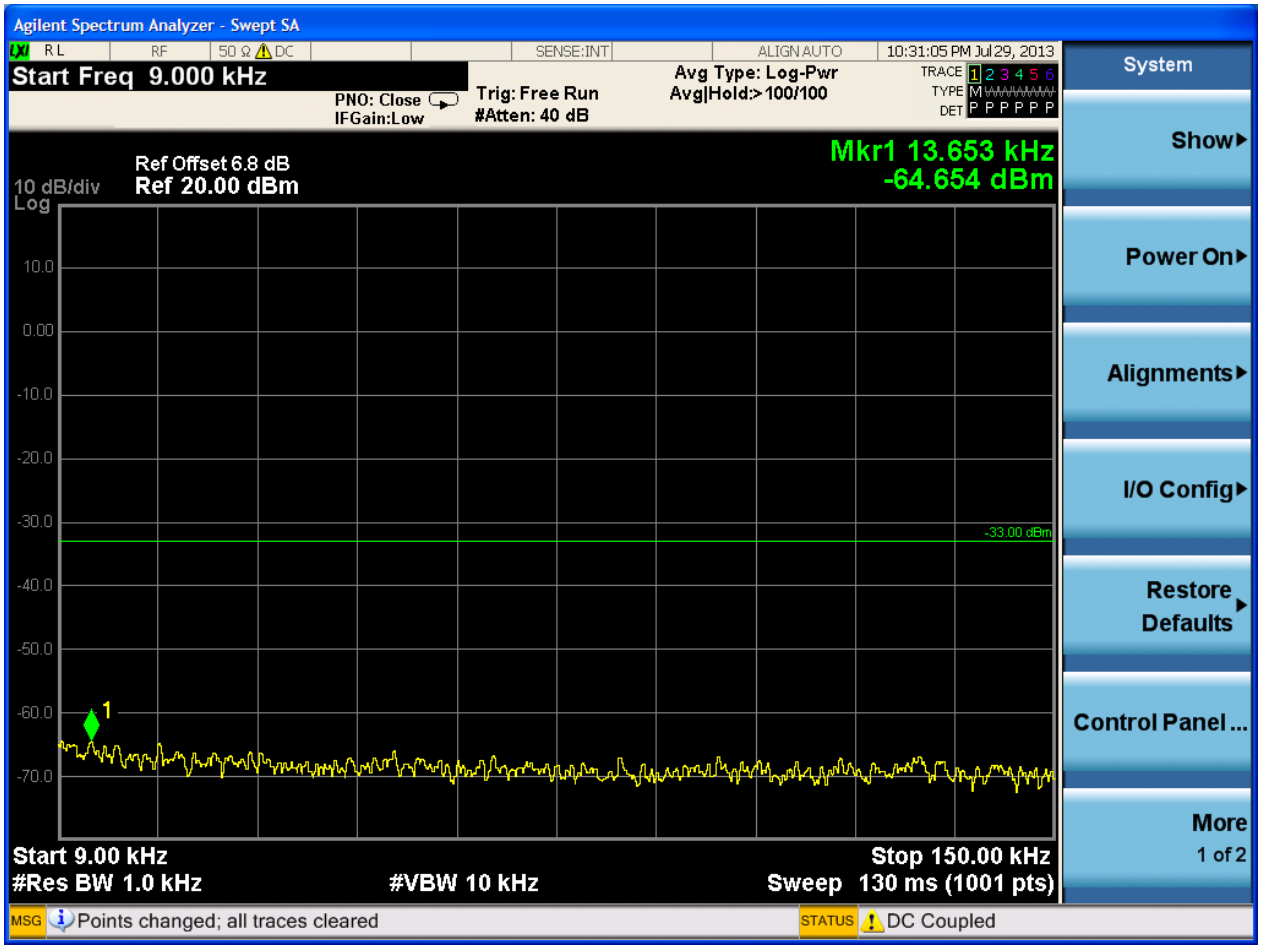
6.1.1.1.3 Test Channel = HCH



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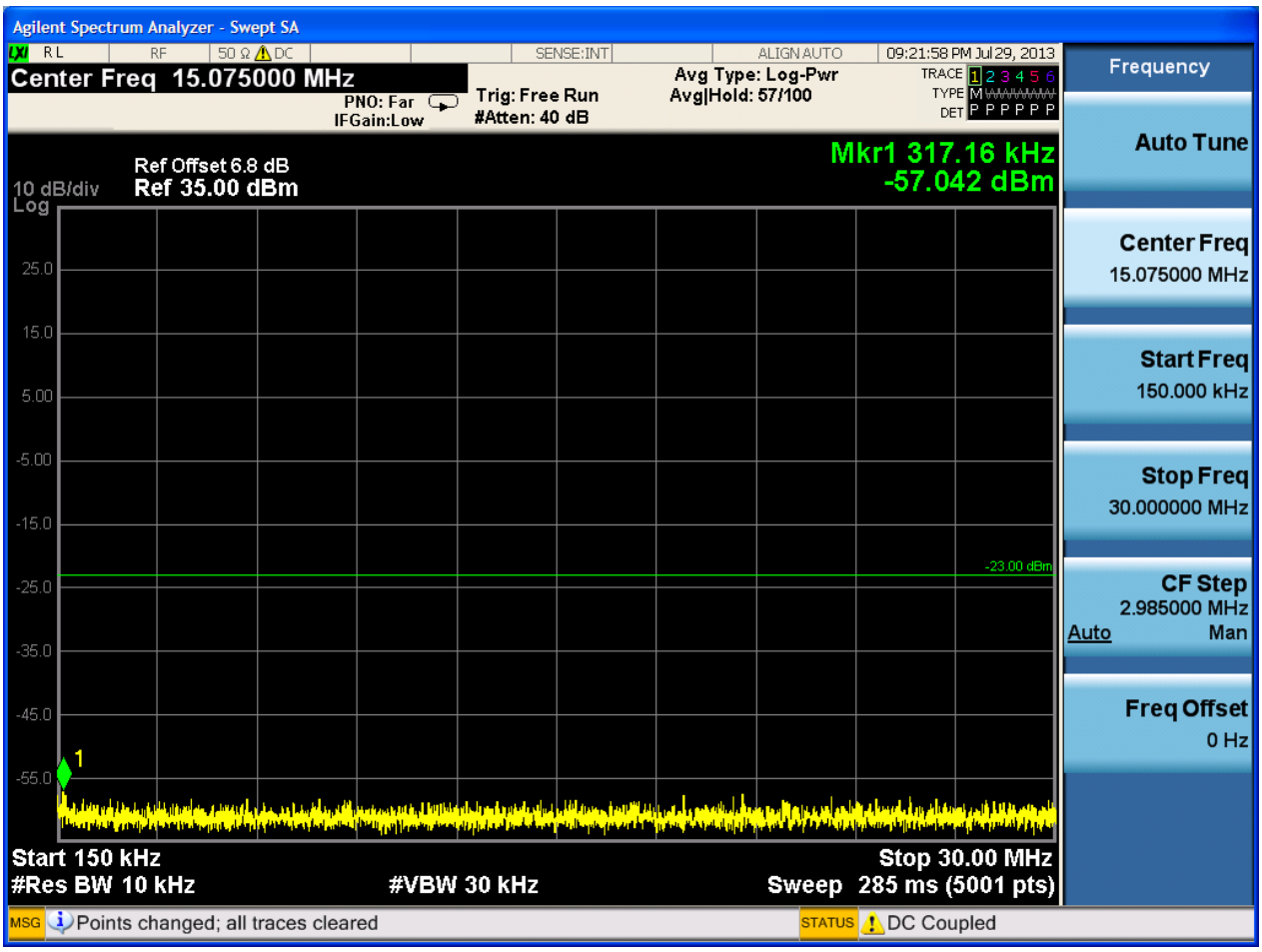

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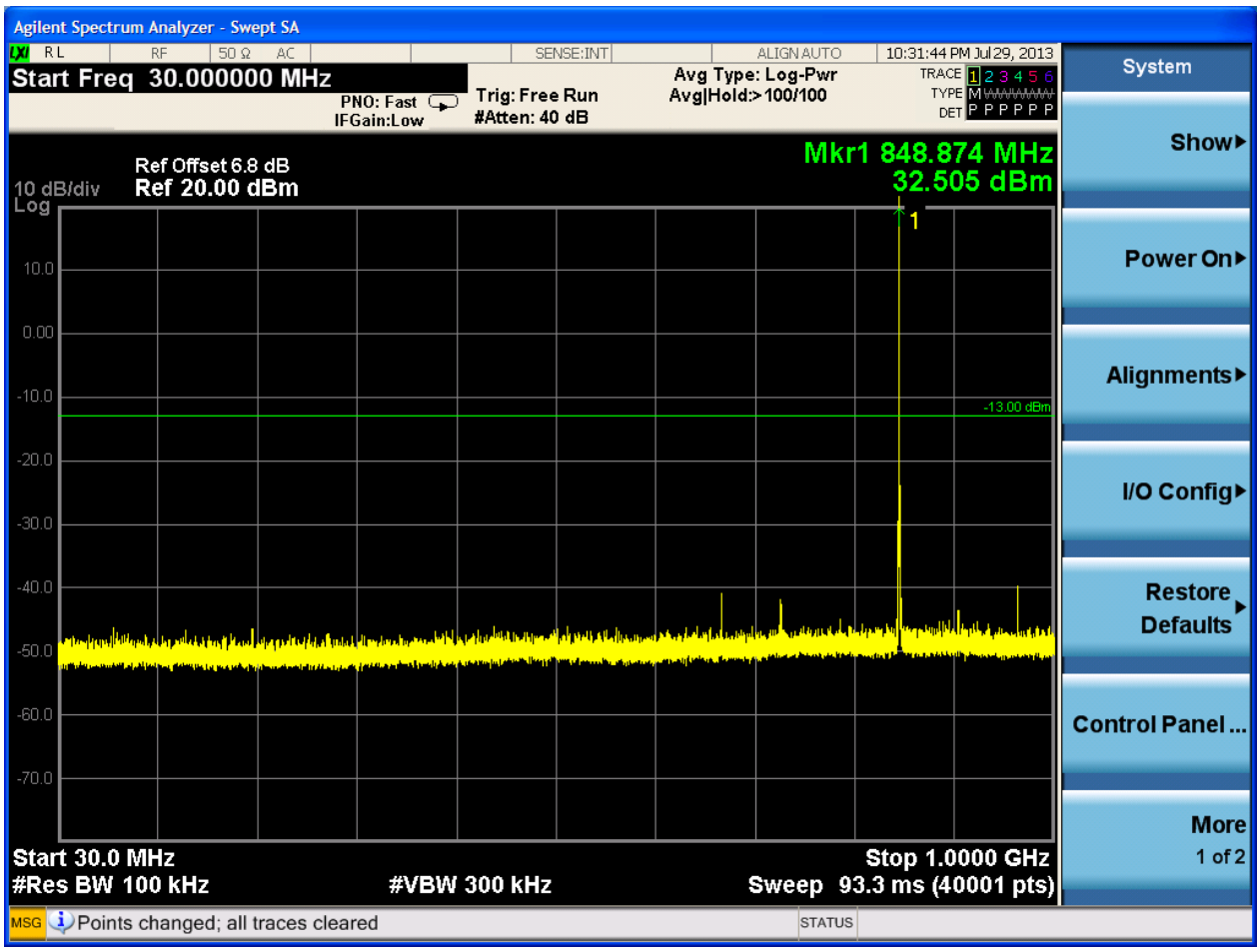

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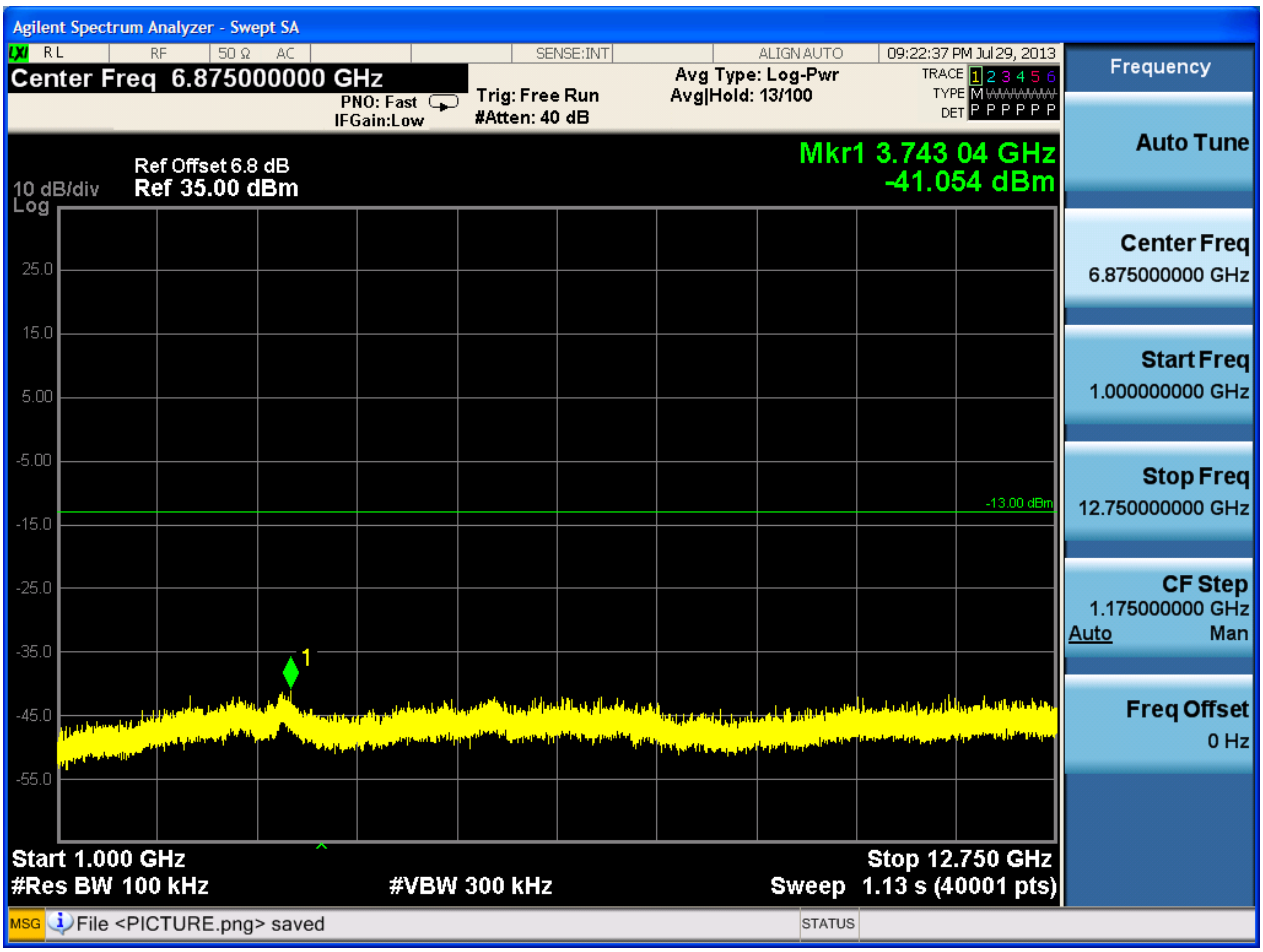

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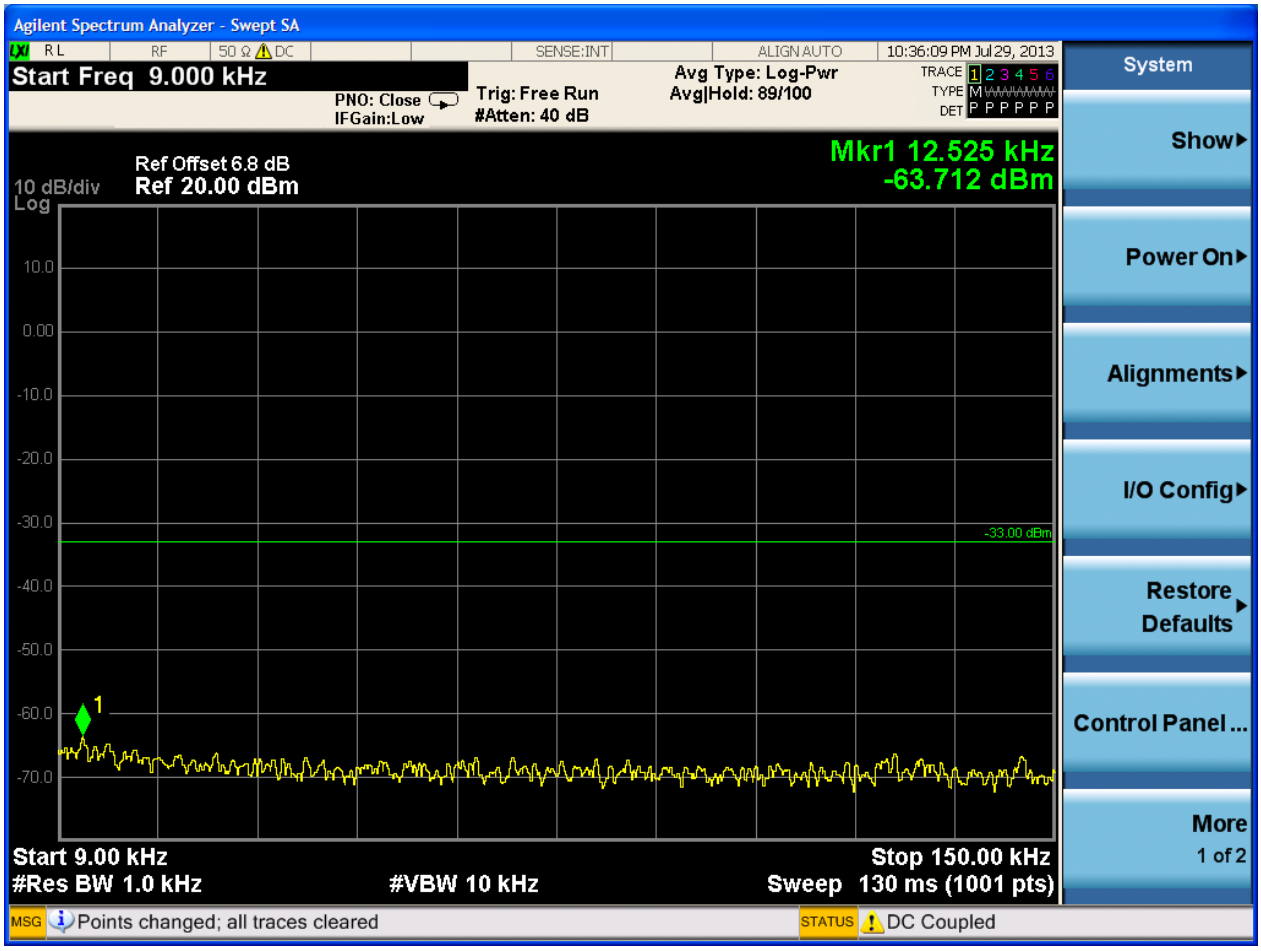
6.1.1.2 Test Mode = GSM/TM2

6.1.1.2.1 Test Channel = LCH



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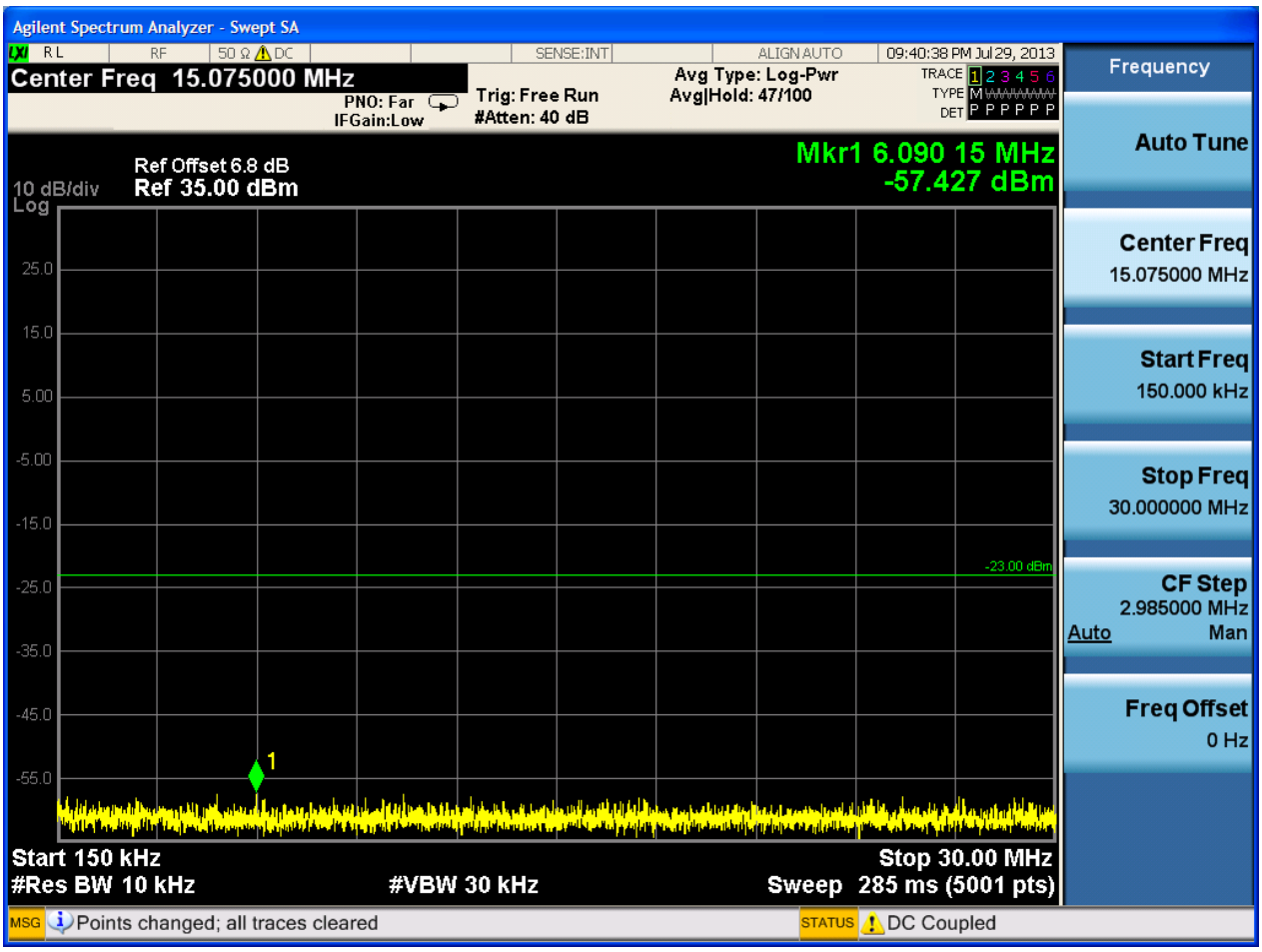

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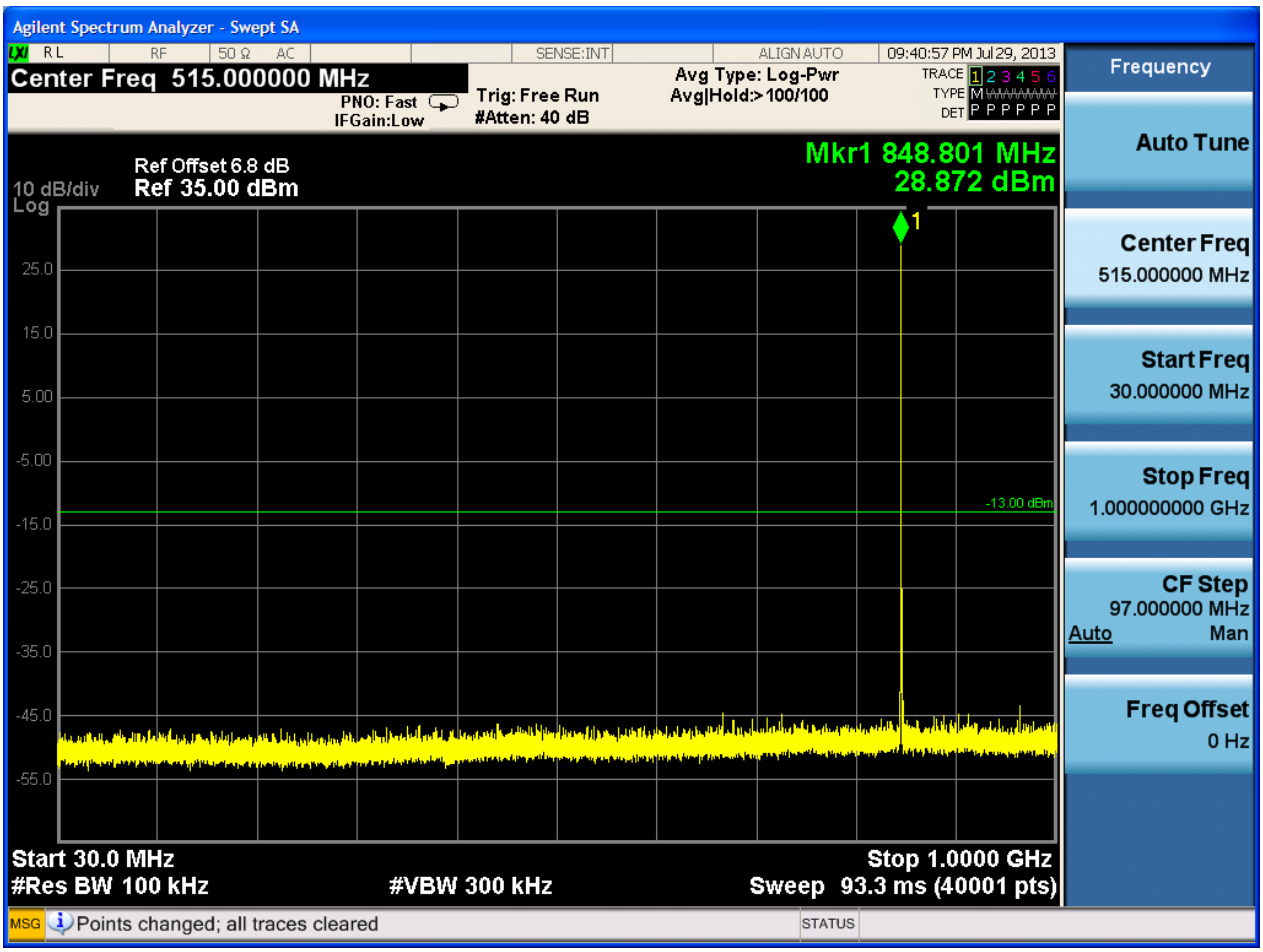

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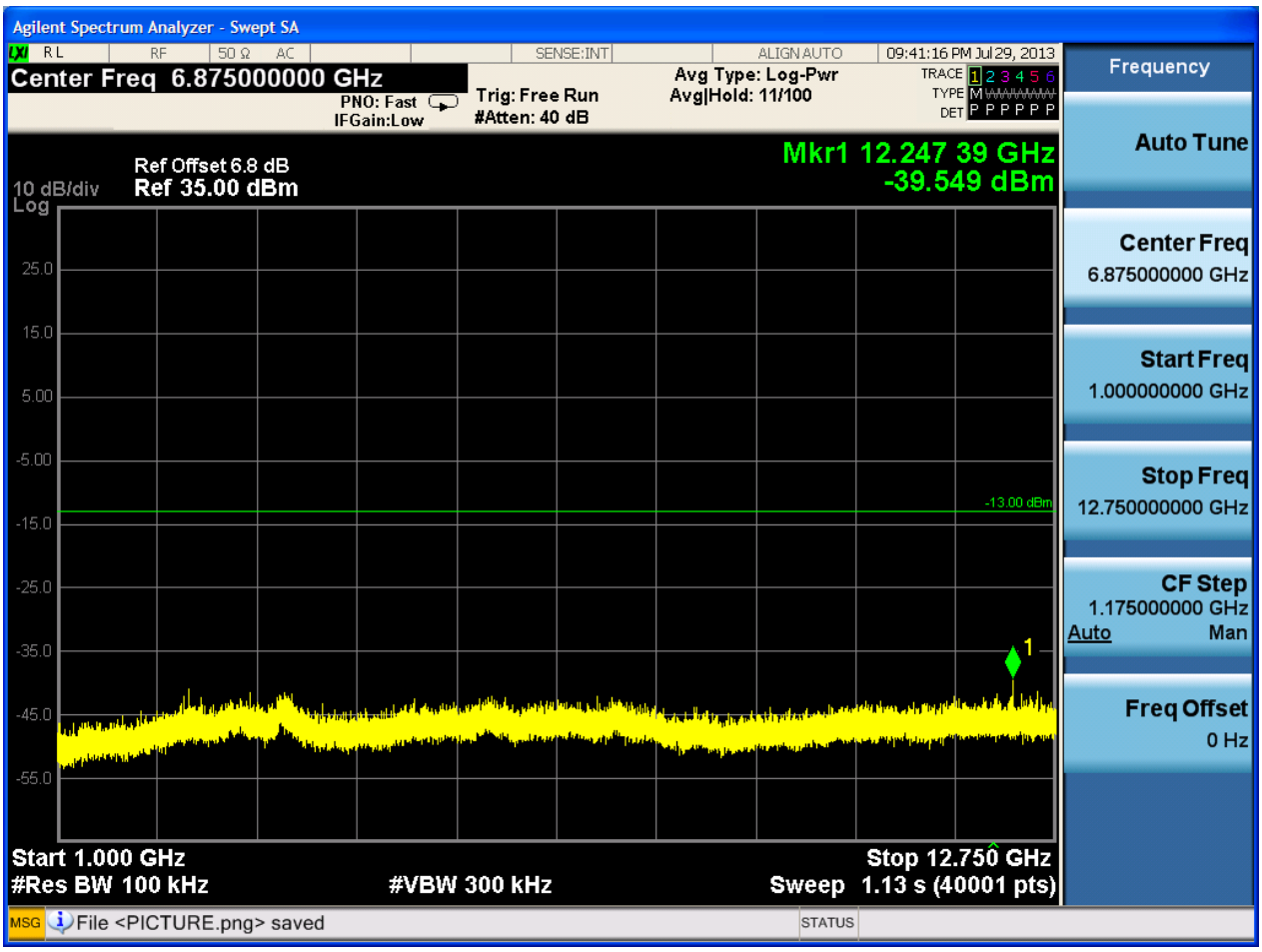

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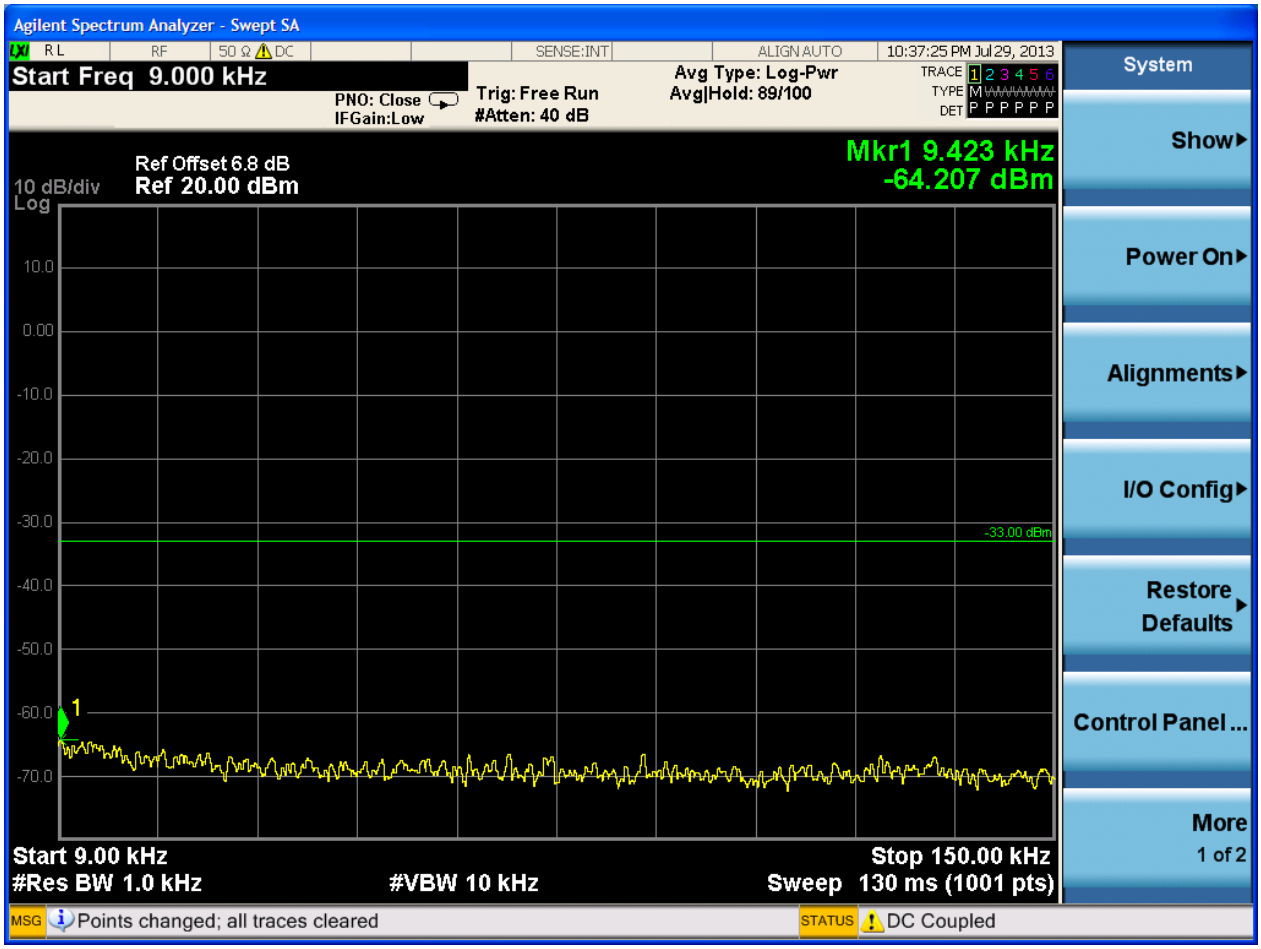
6.1.1.2.2 Test Channel = MCH



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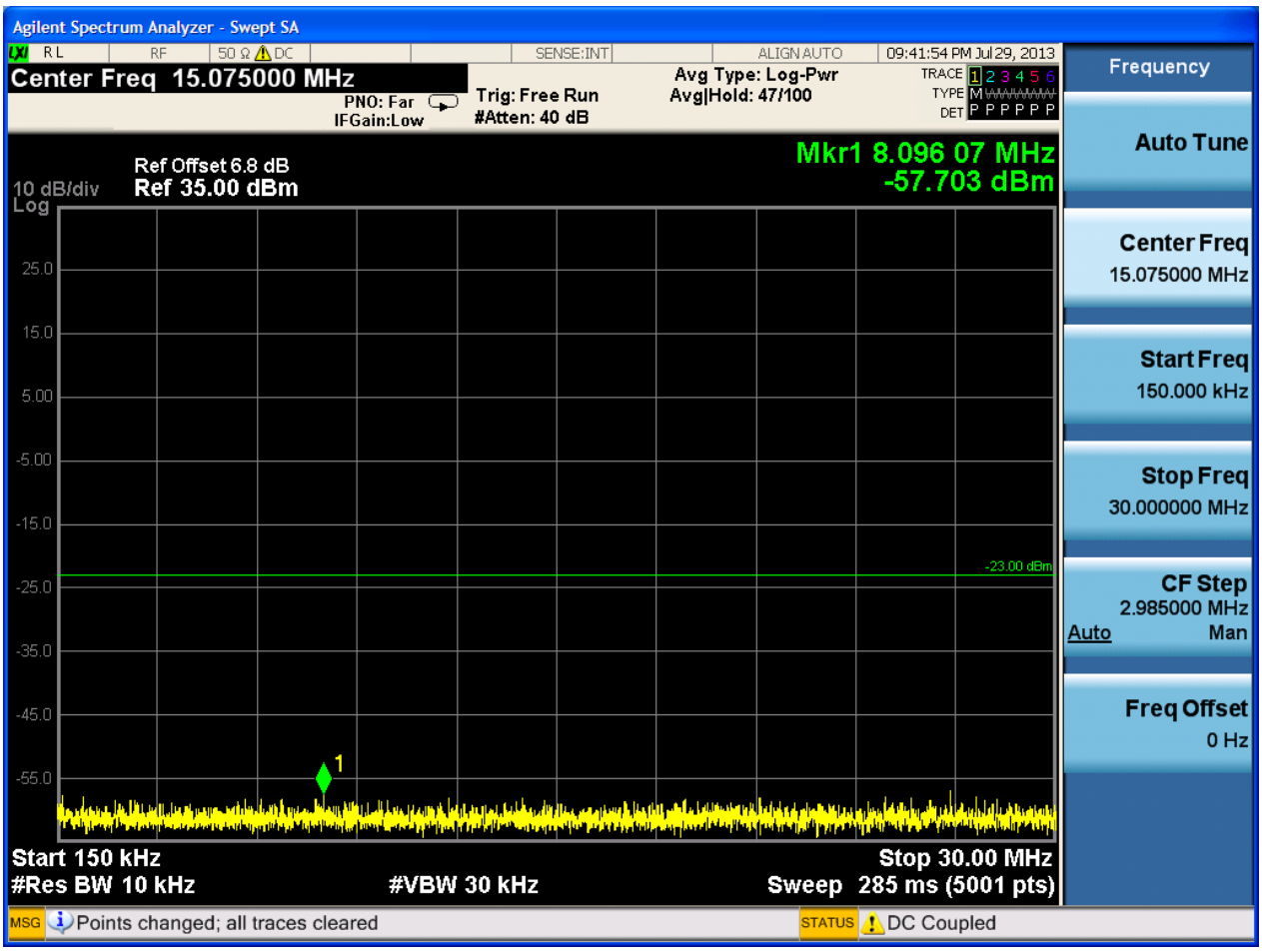

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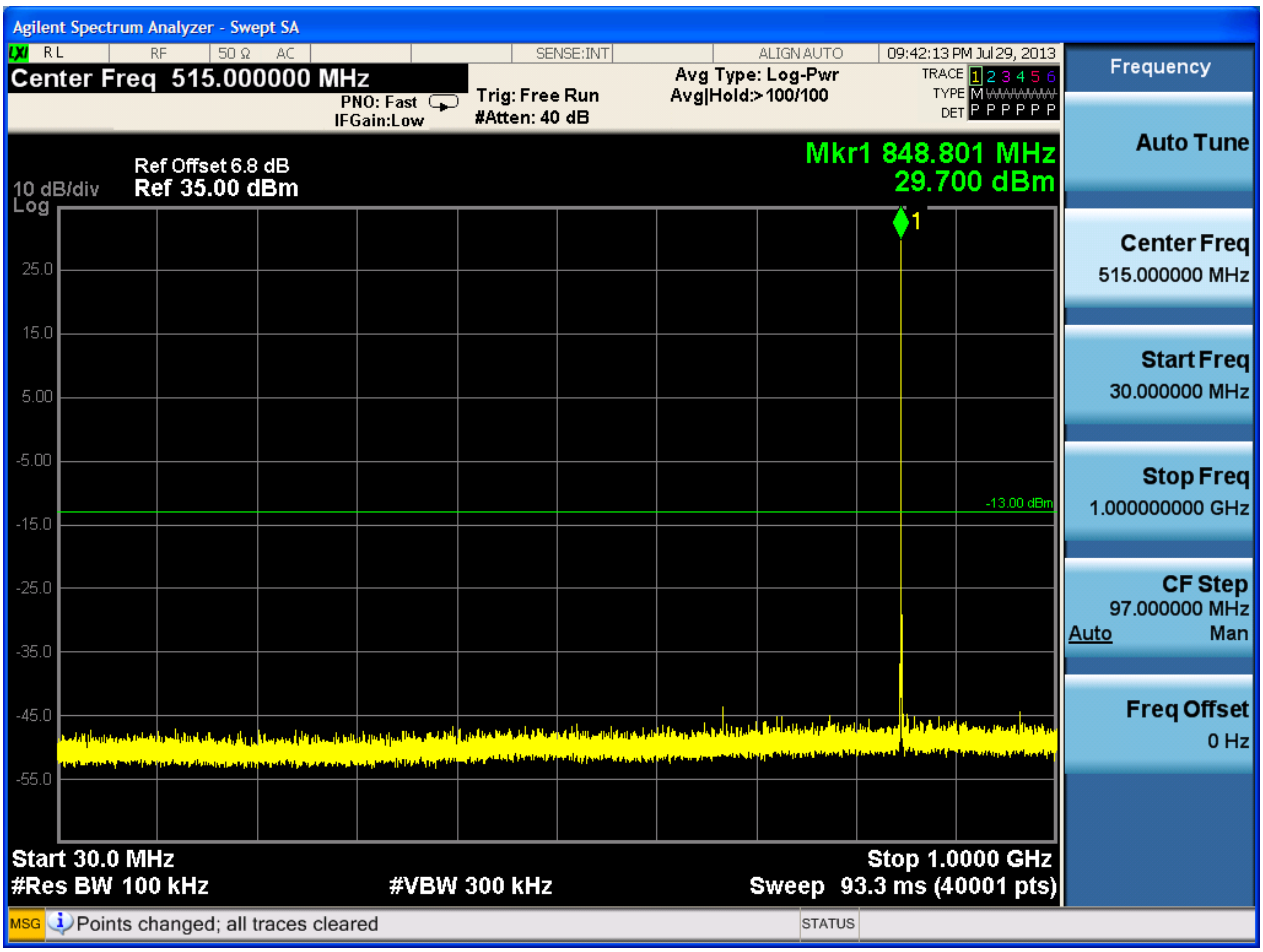

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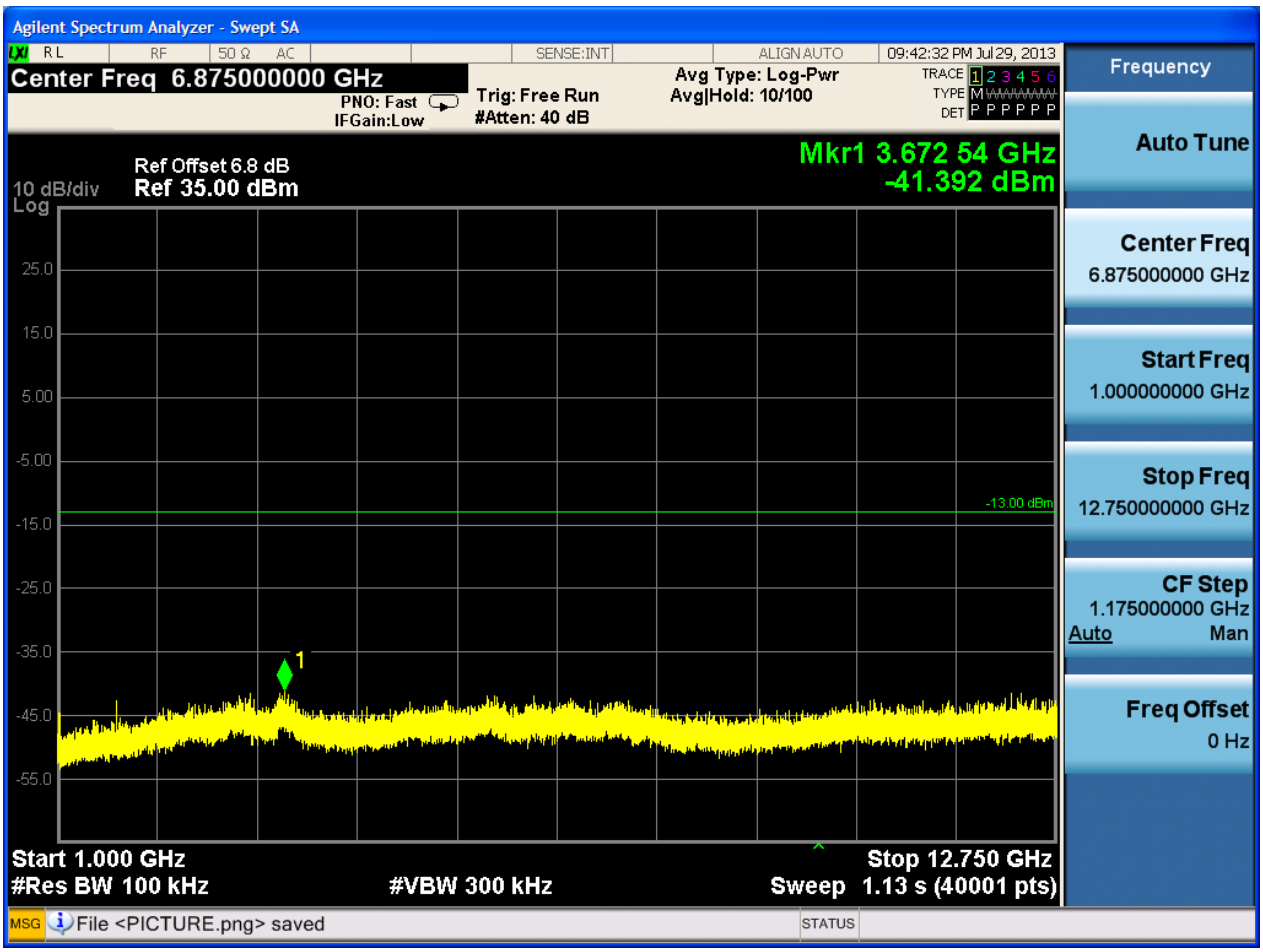

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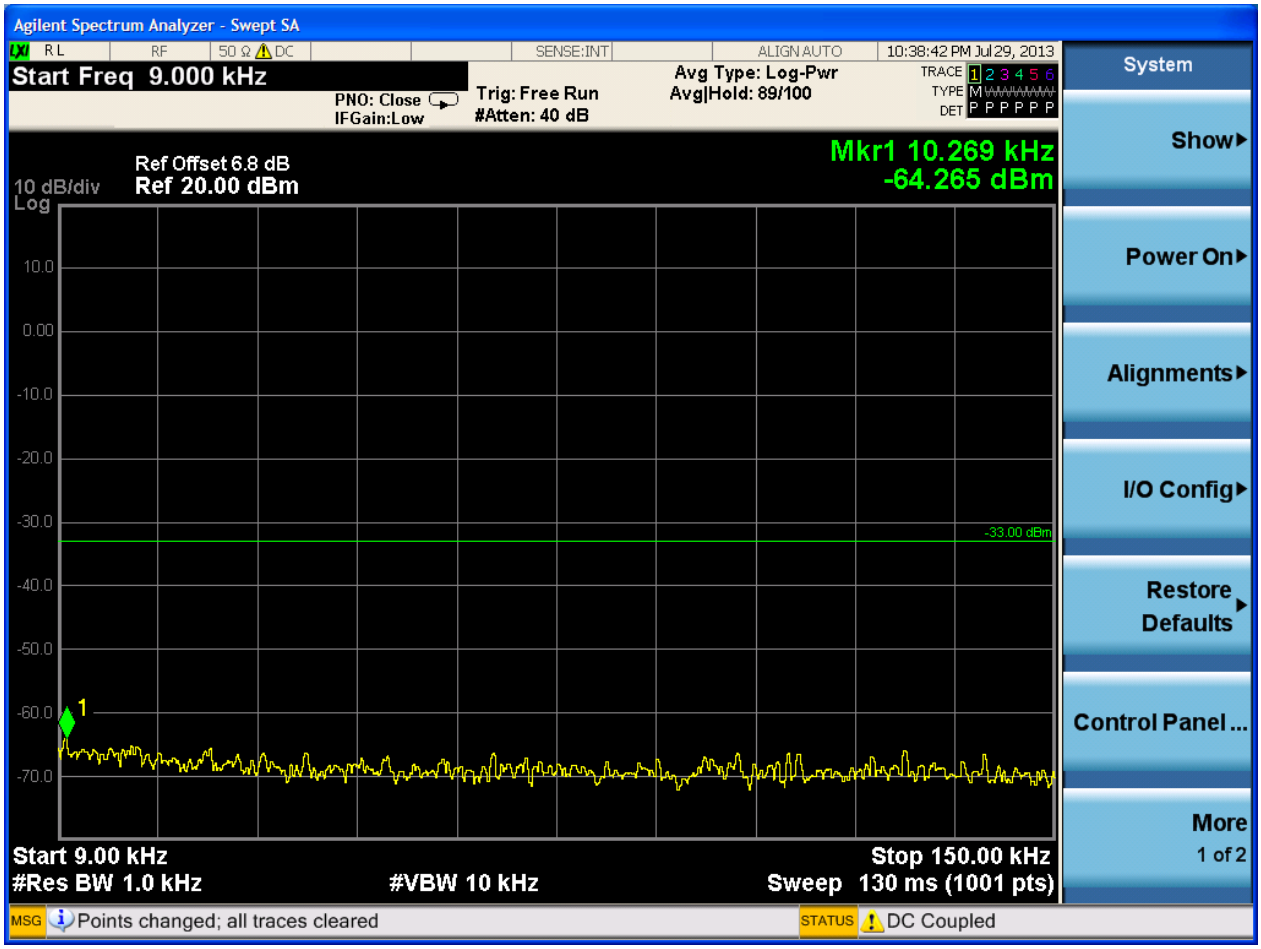
6.1.1.2.3 Test Channel = HCH



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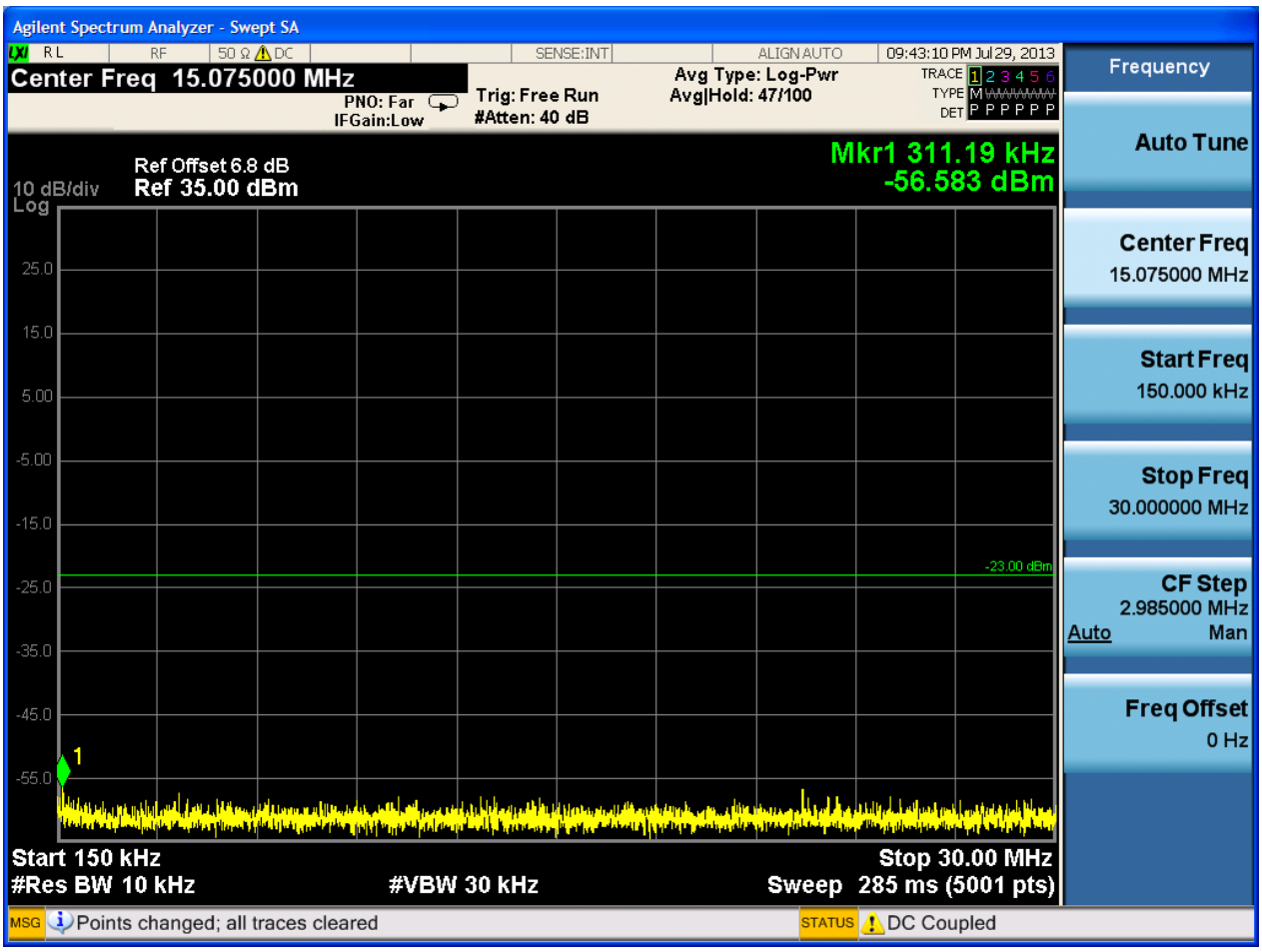

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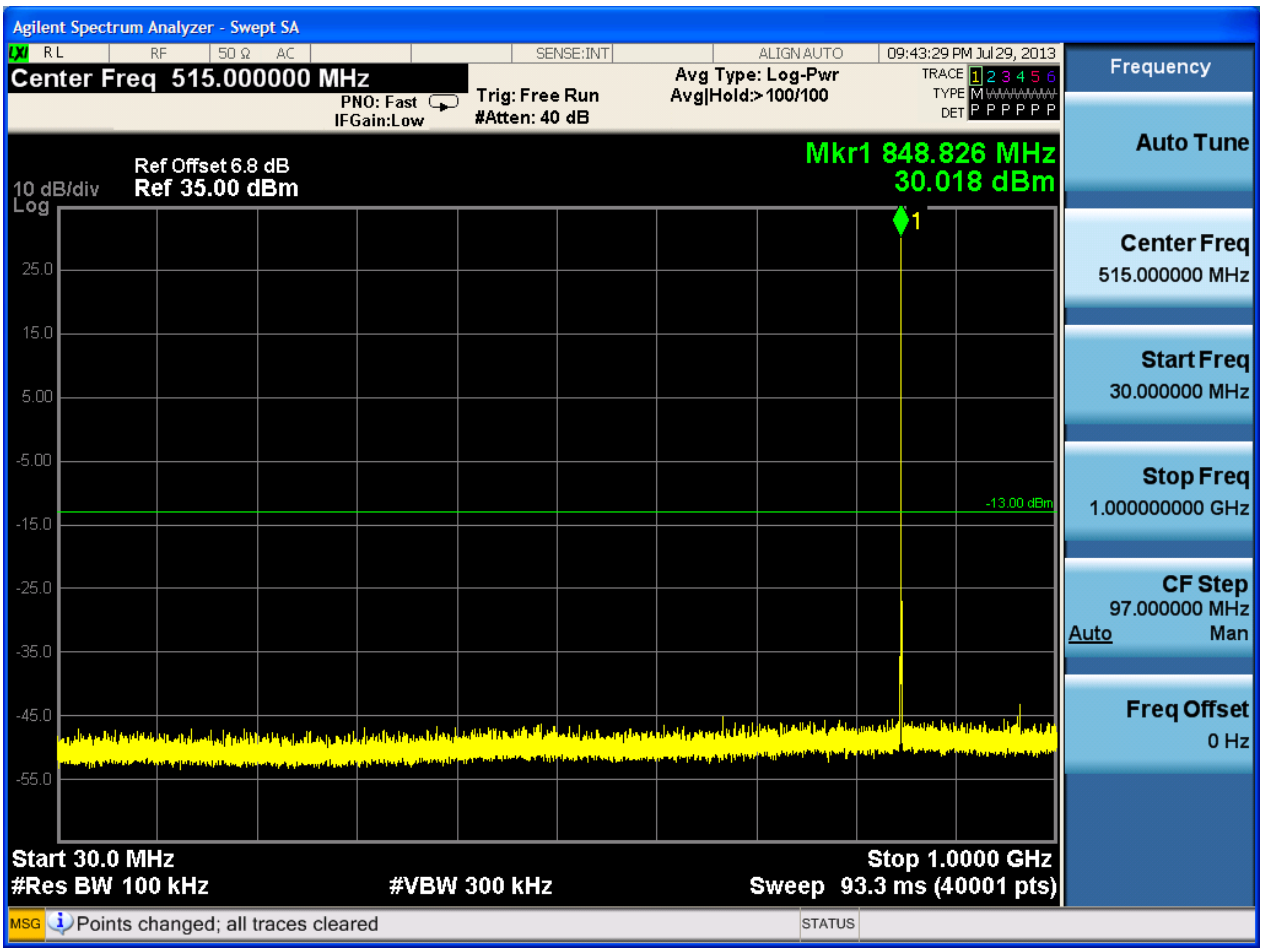

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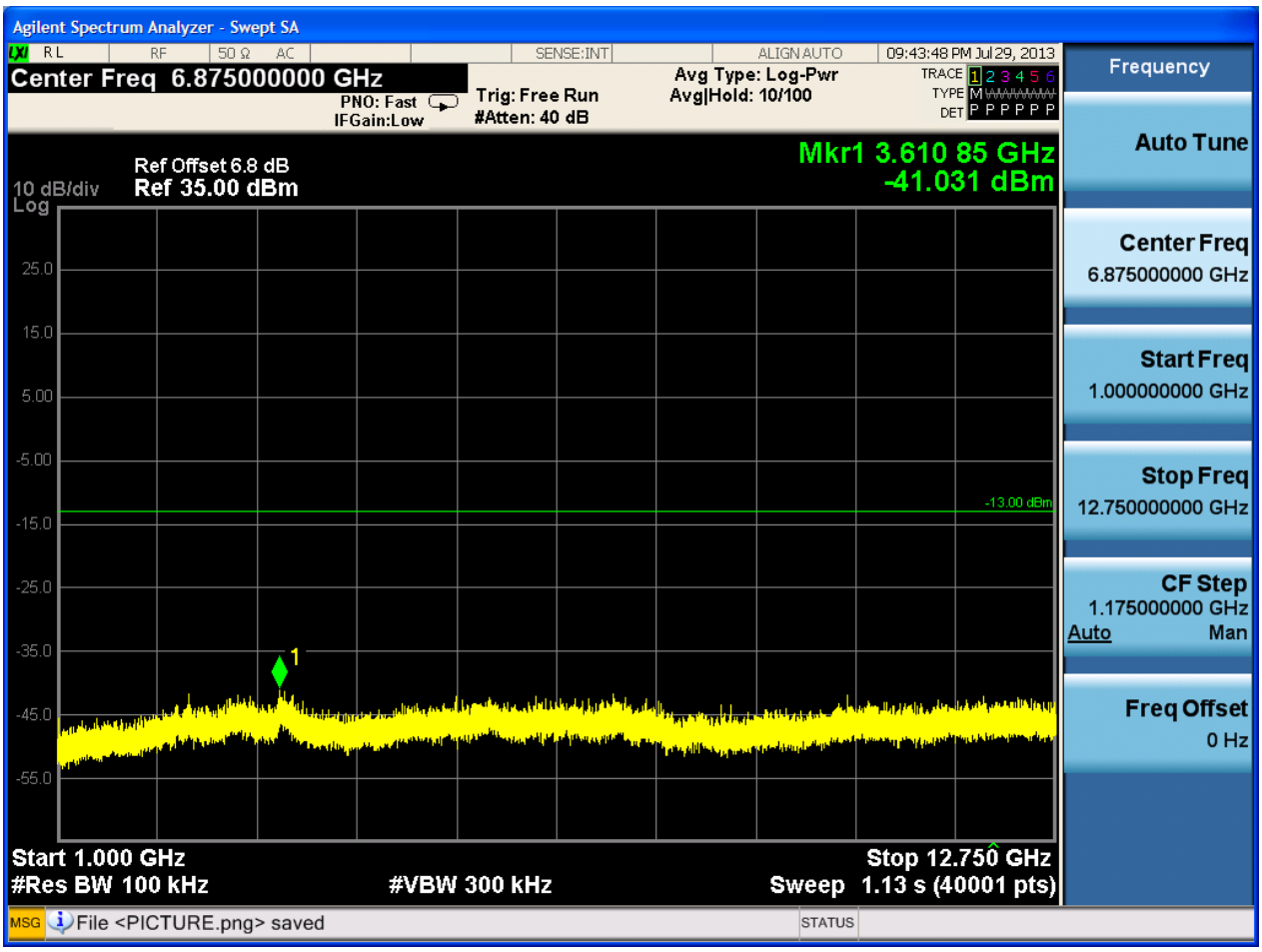

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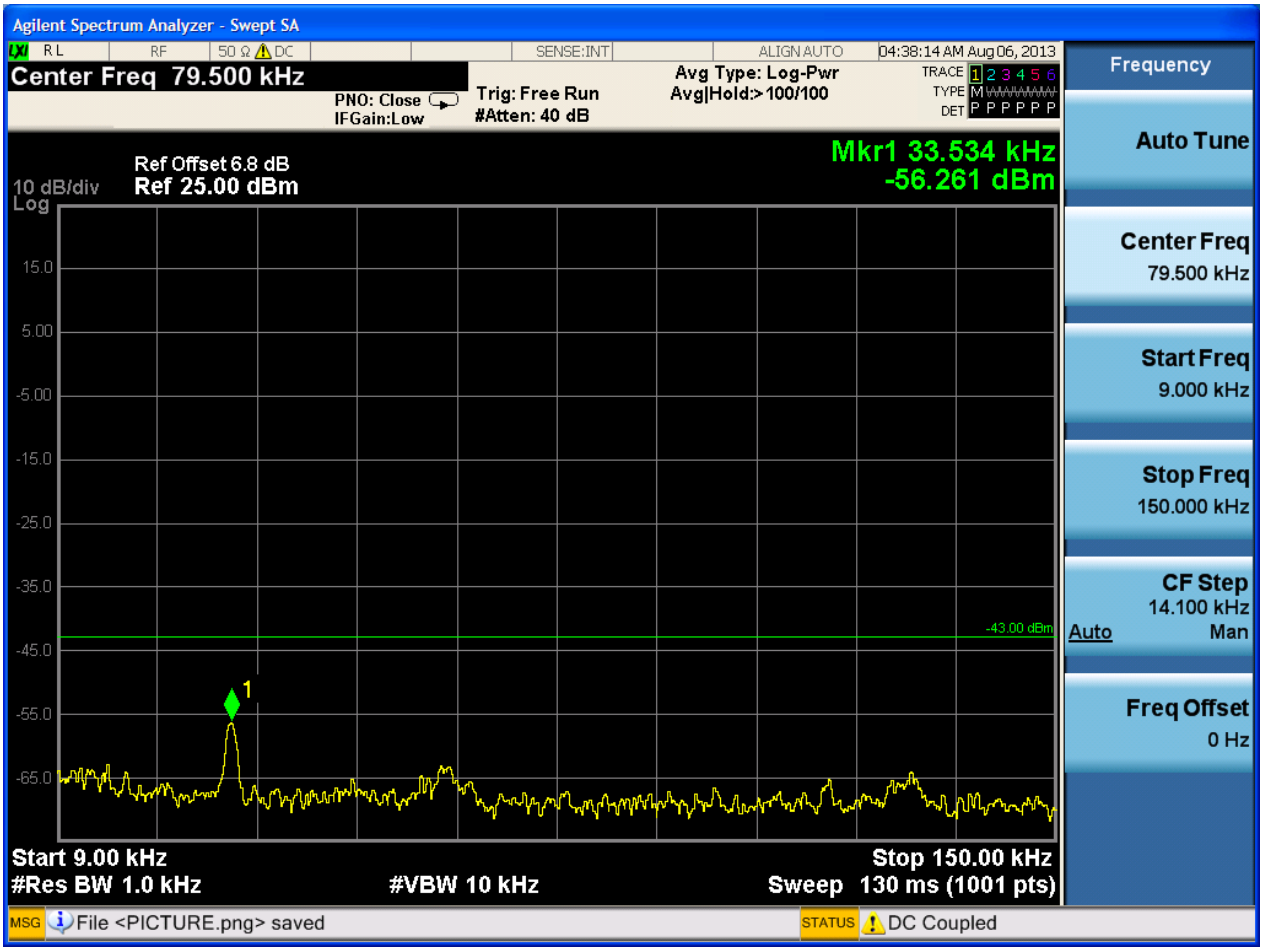
6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH



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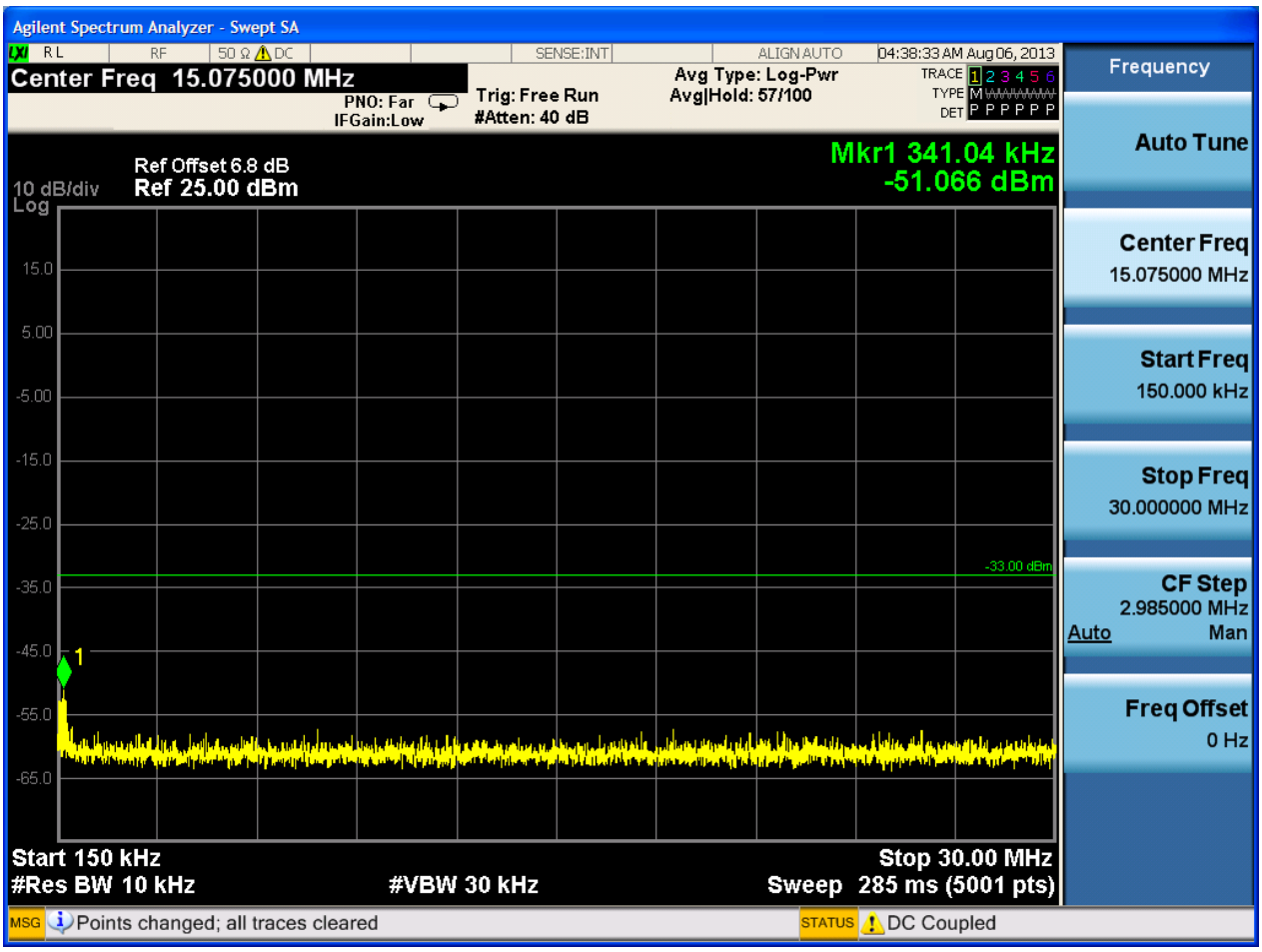

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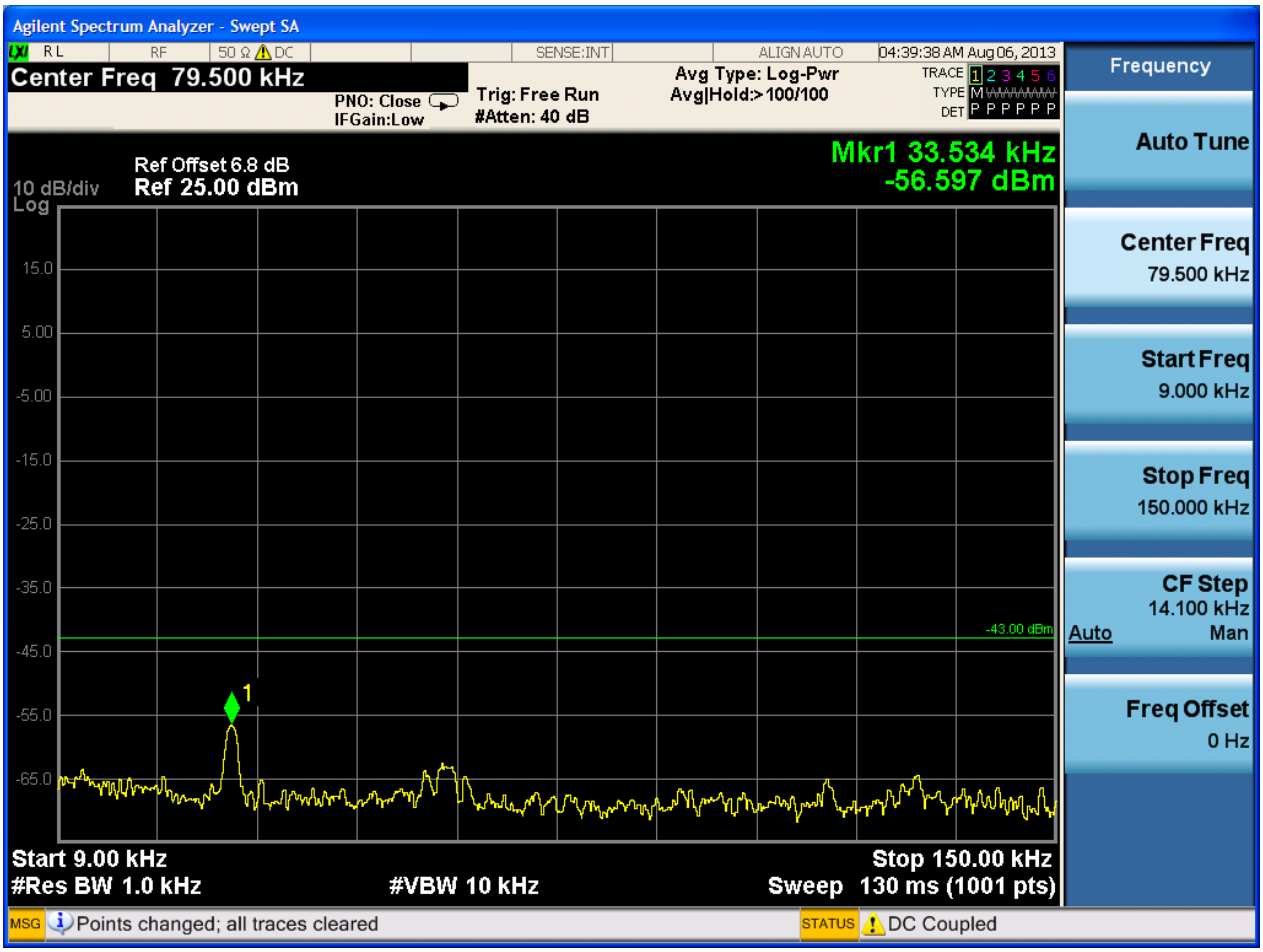
6.1.2.1.2 Test Channel = MCH



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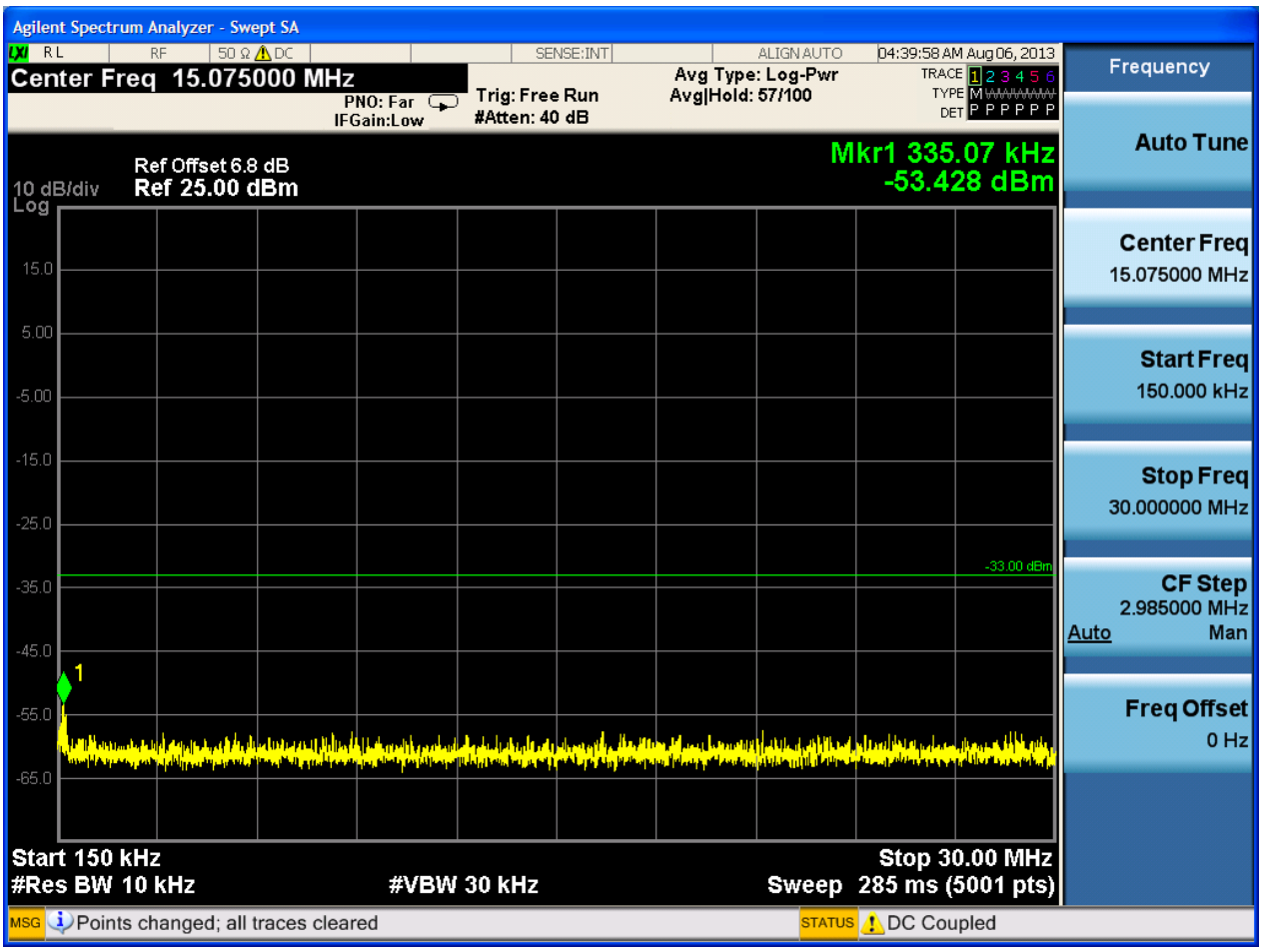

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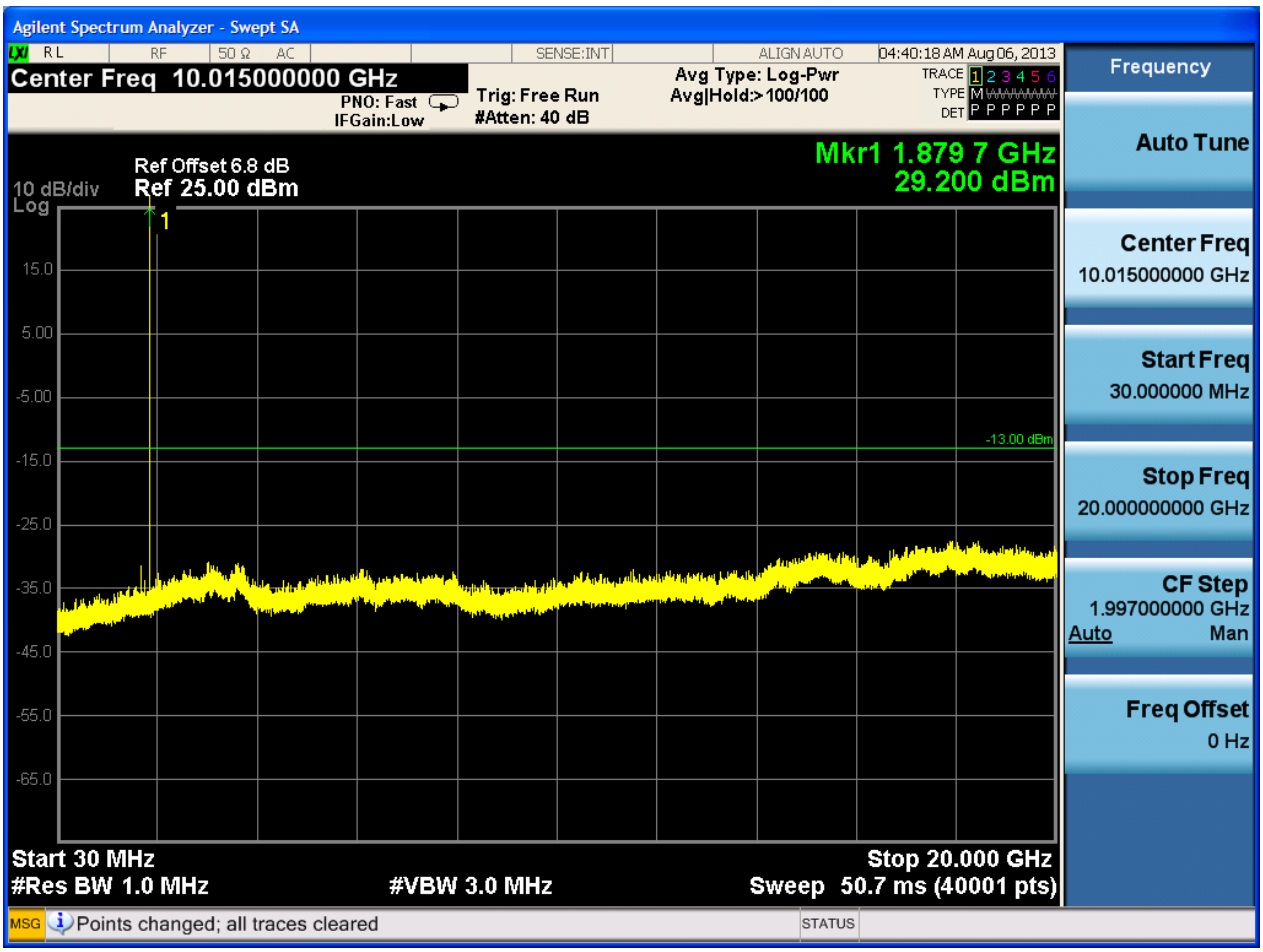

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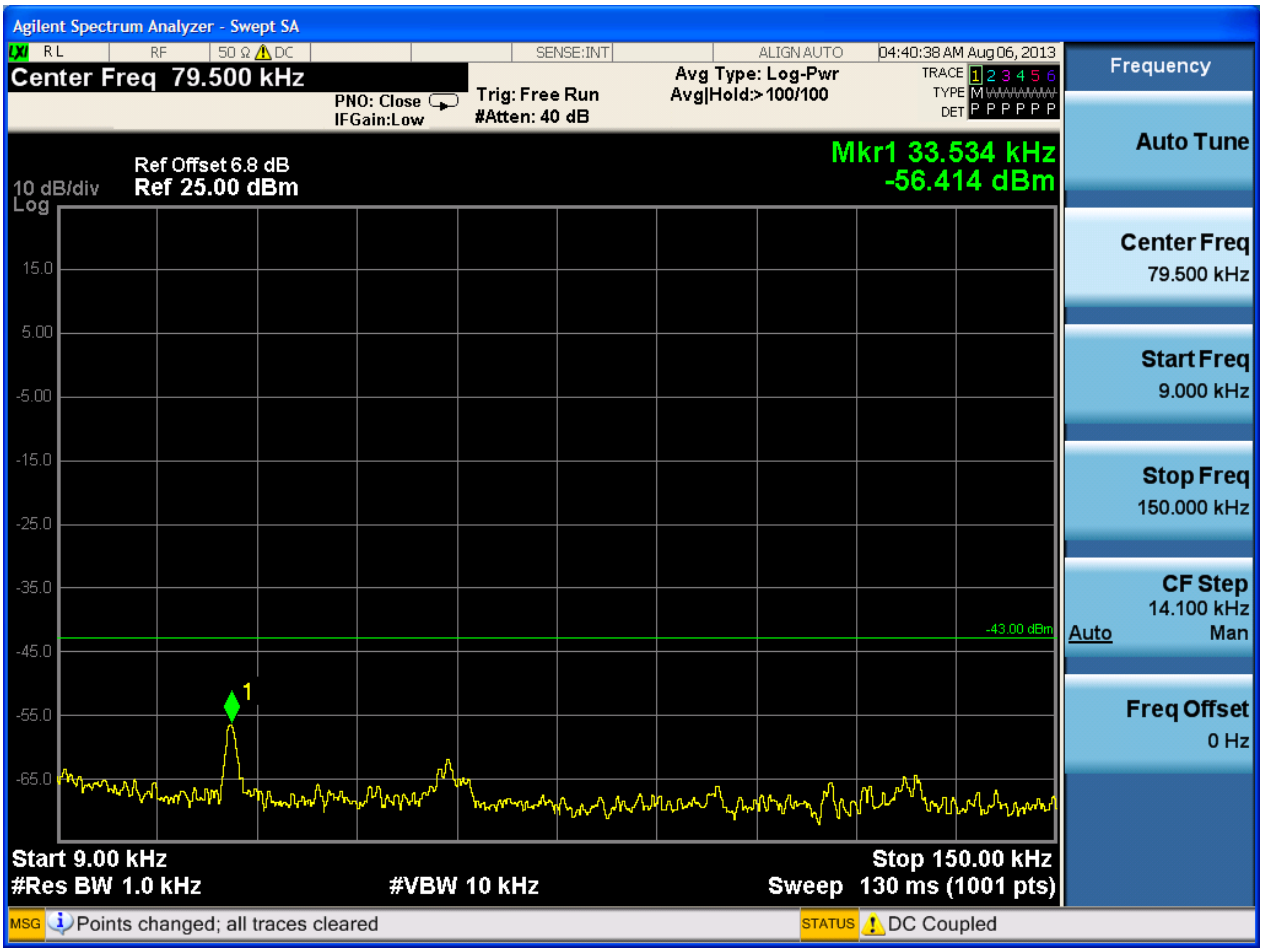
6.1.2.1.3 Test Channel = HCH



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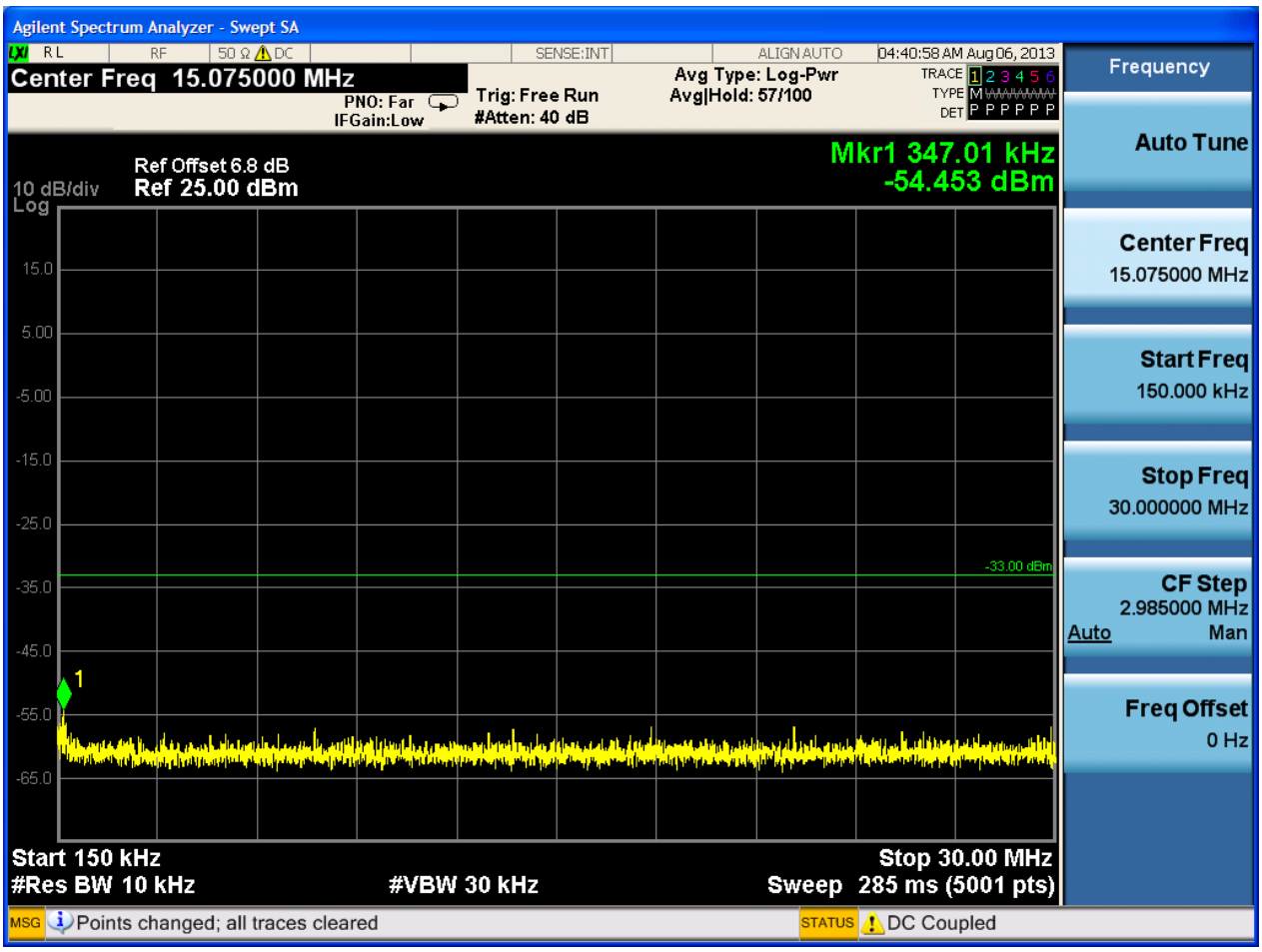

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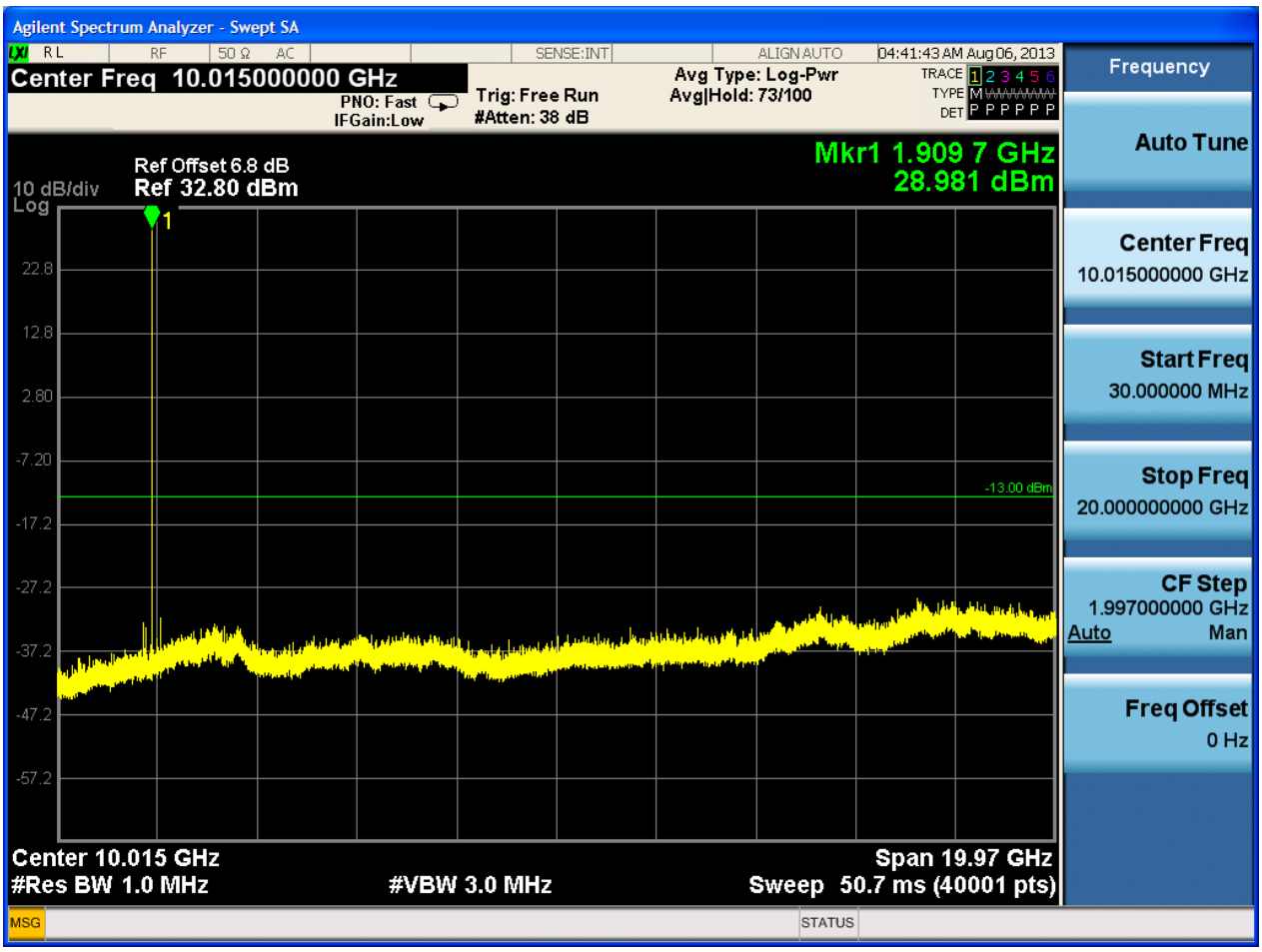

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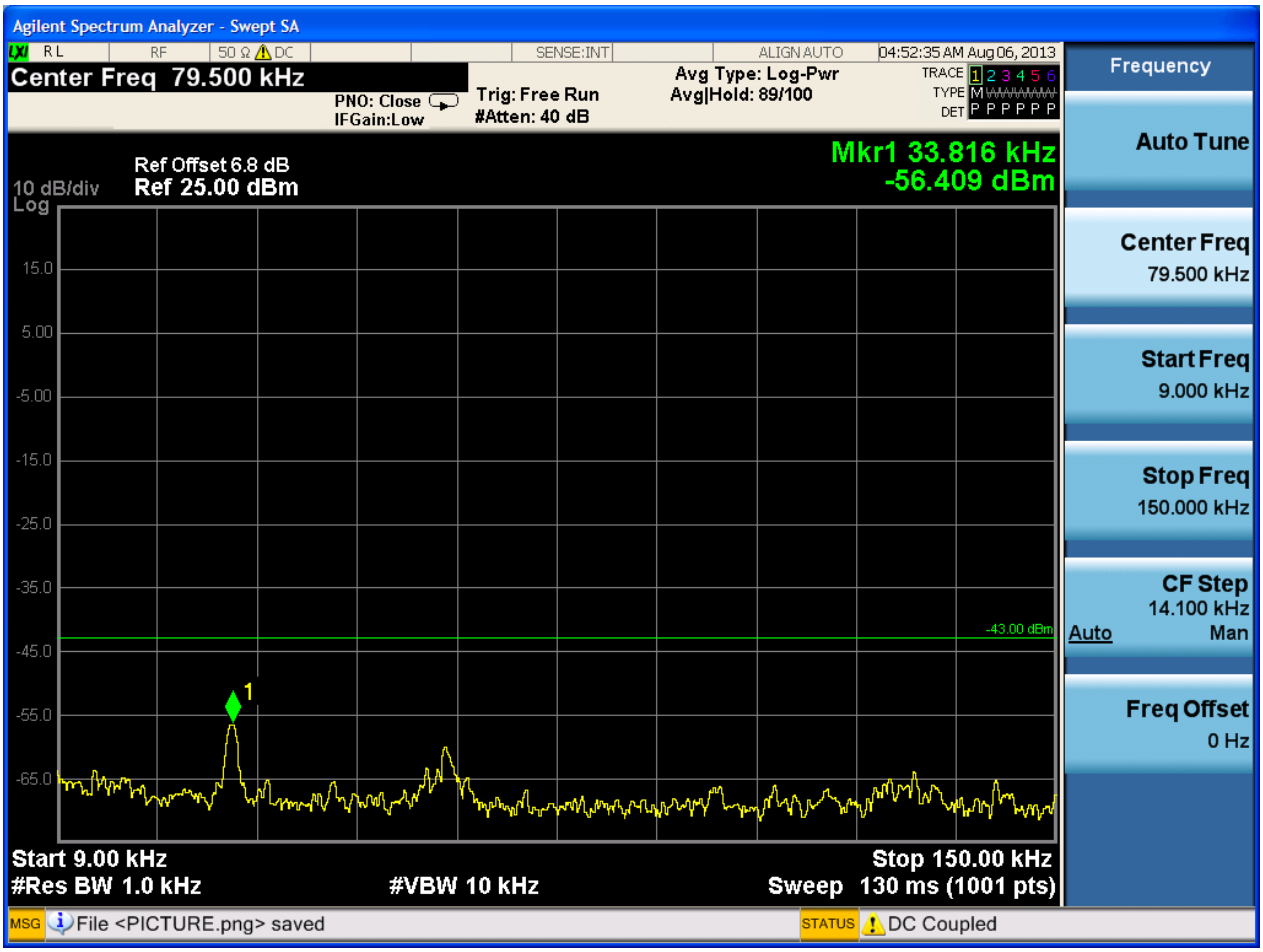
6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH



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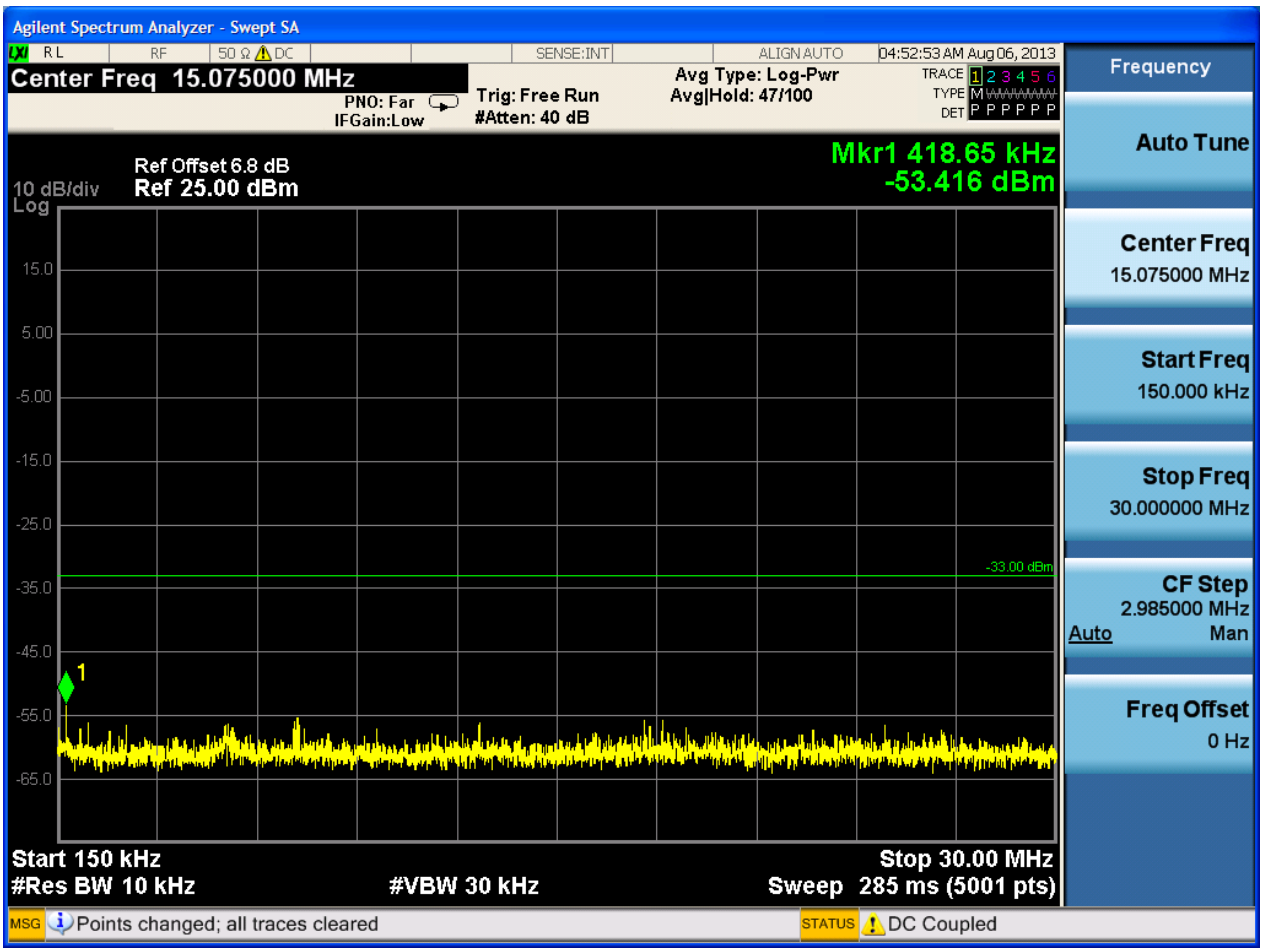

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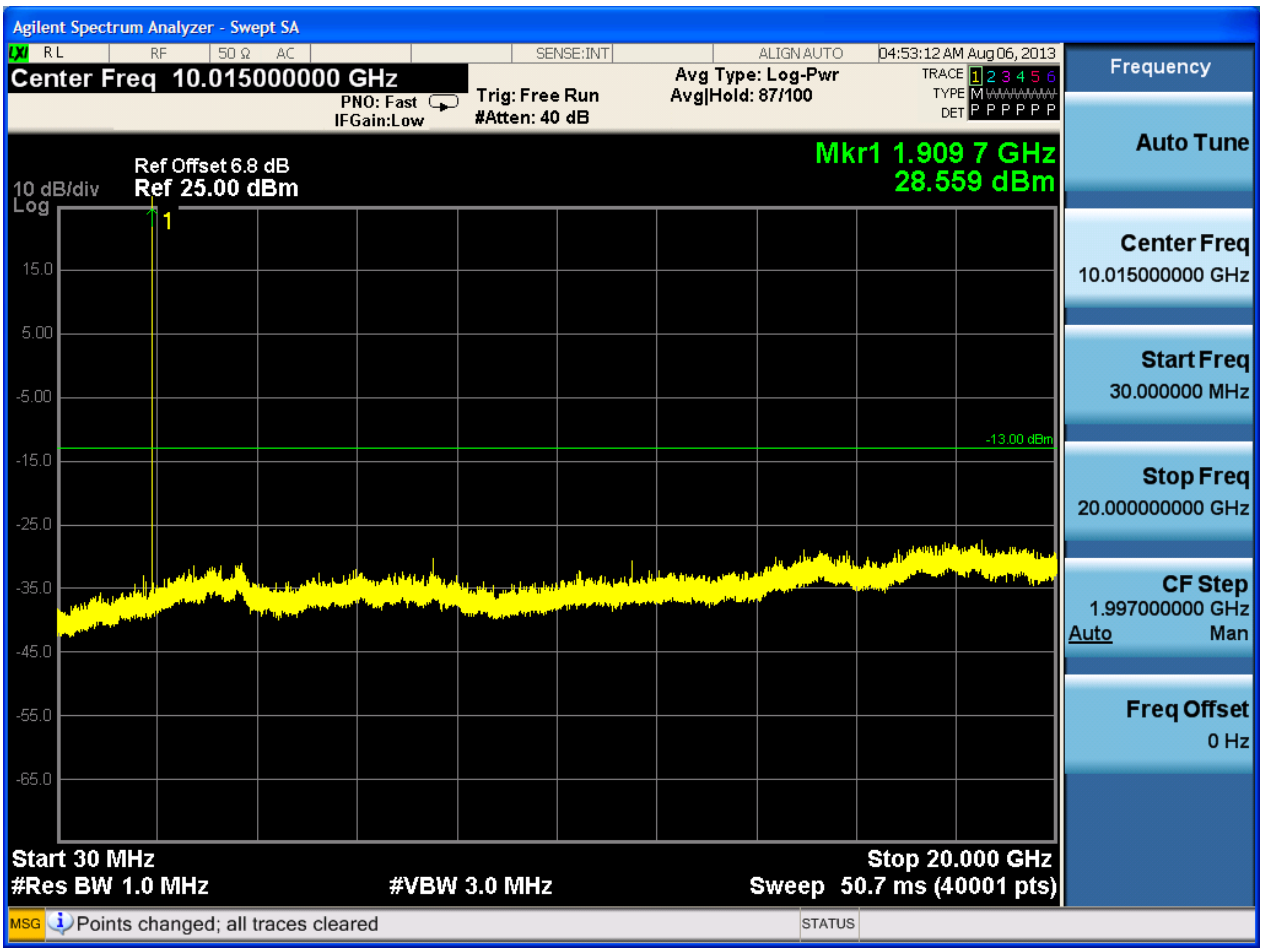

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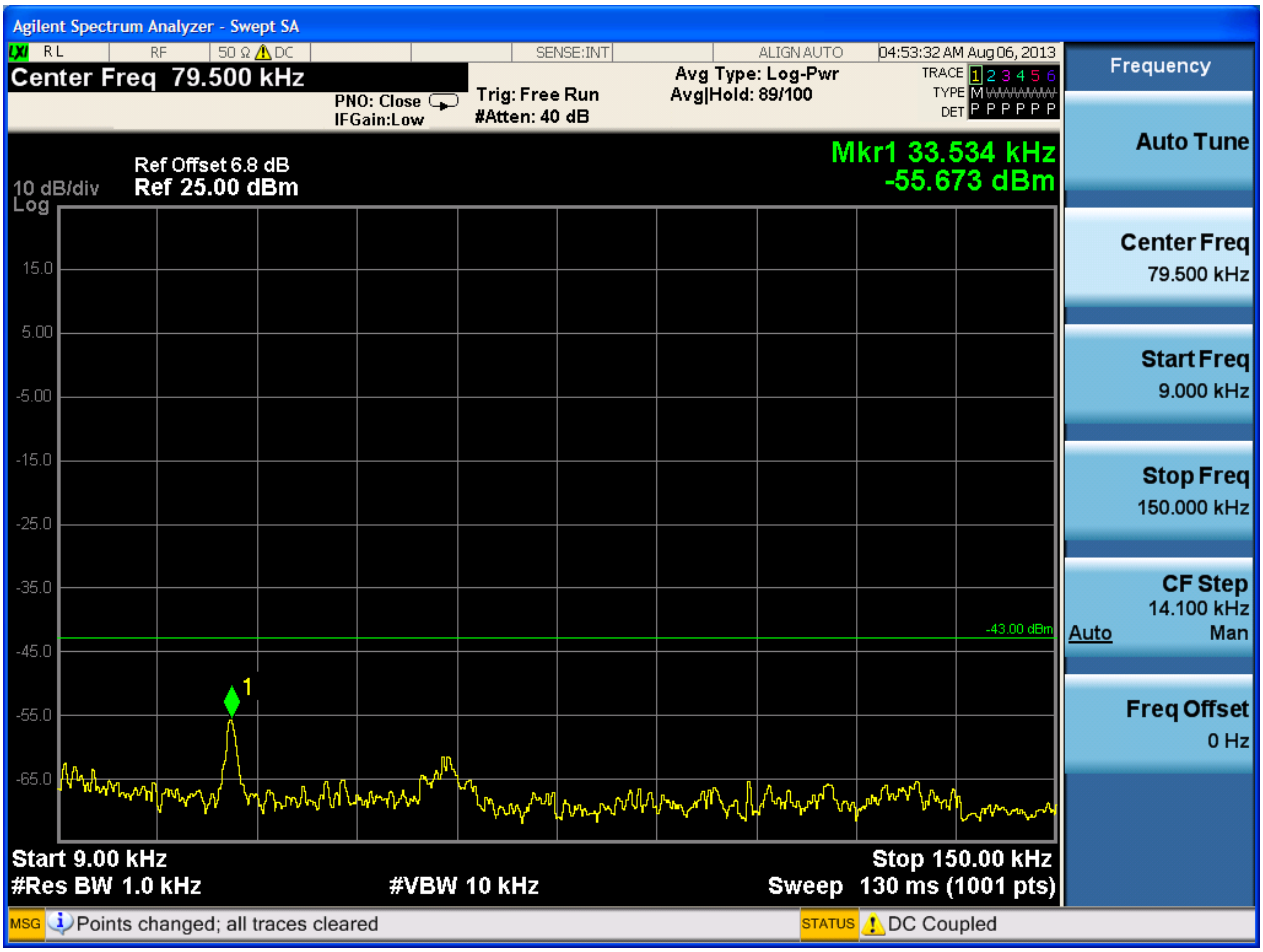
6.1.2.2.2 Test Channel = MCH



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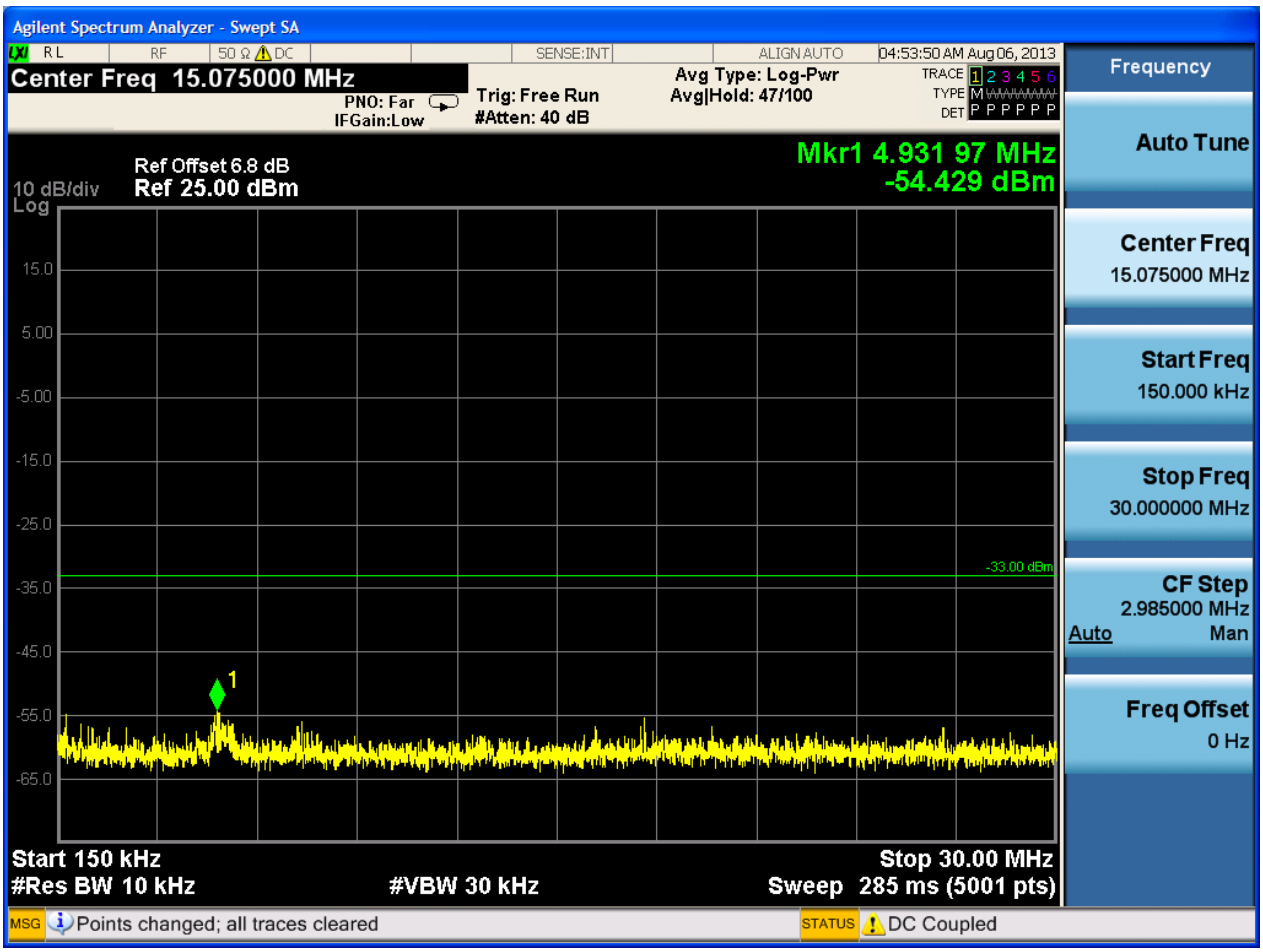

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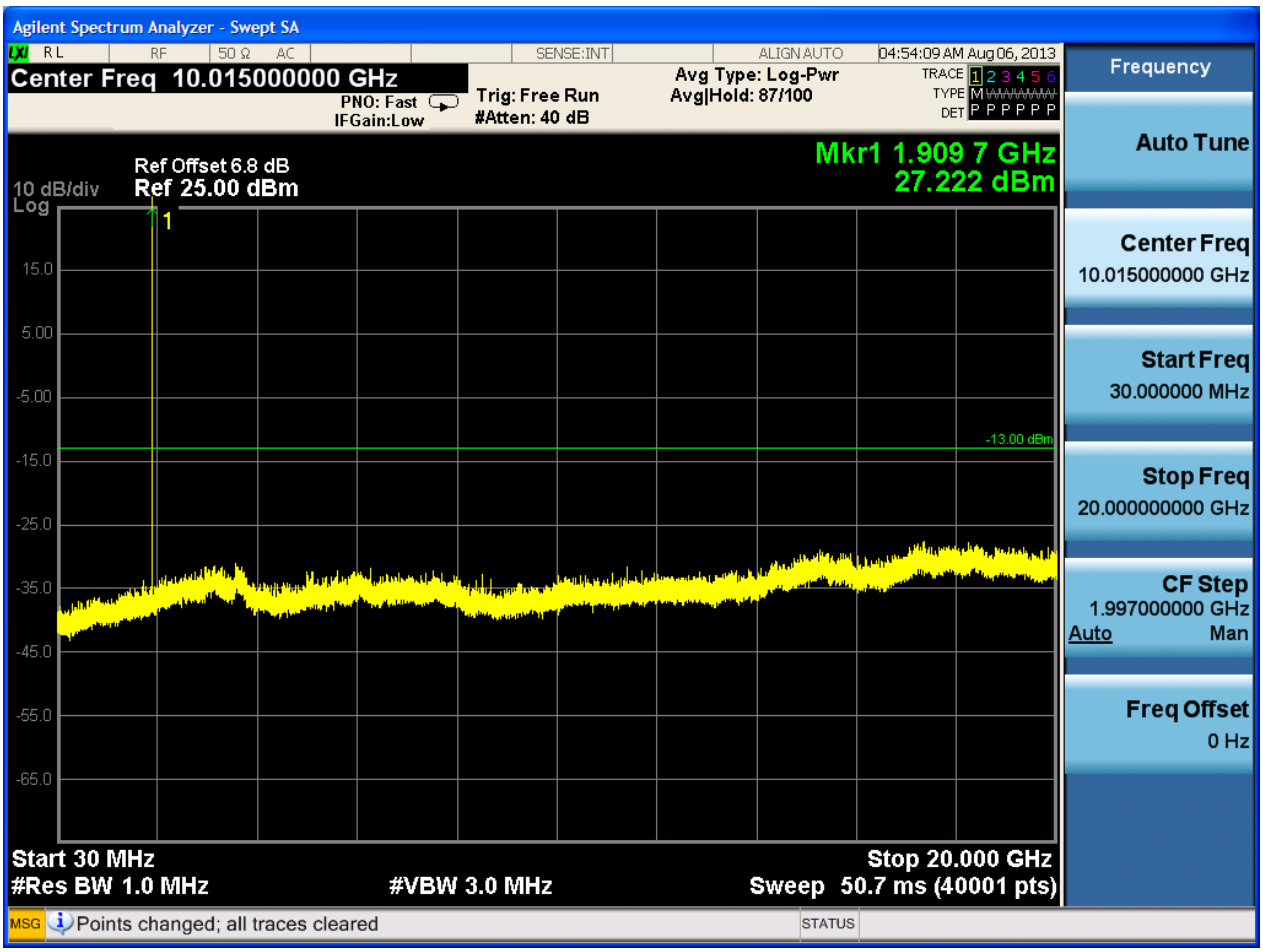

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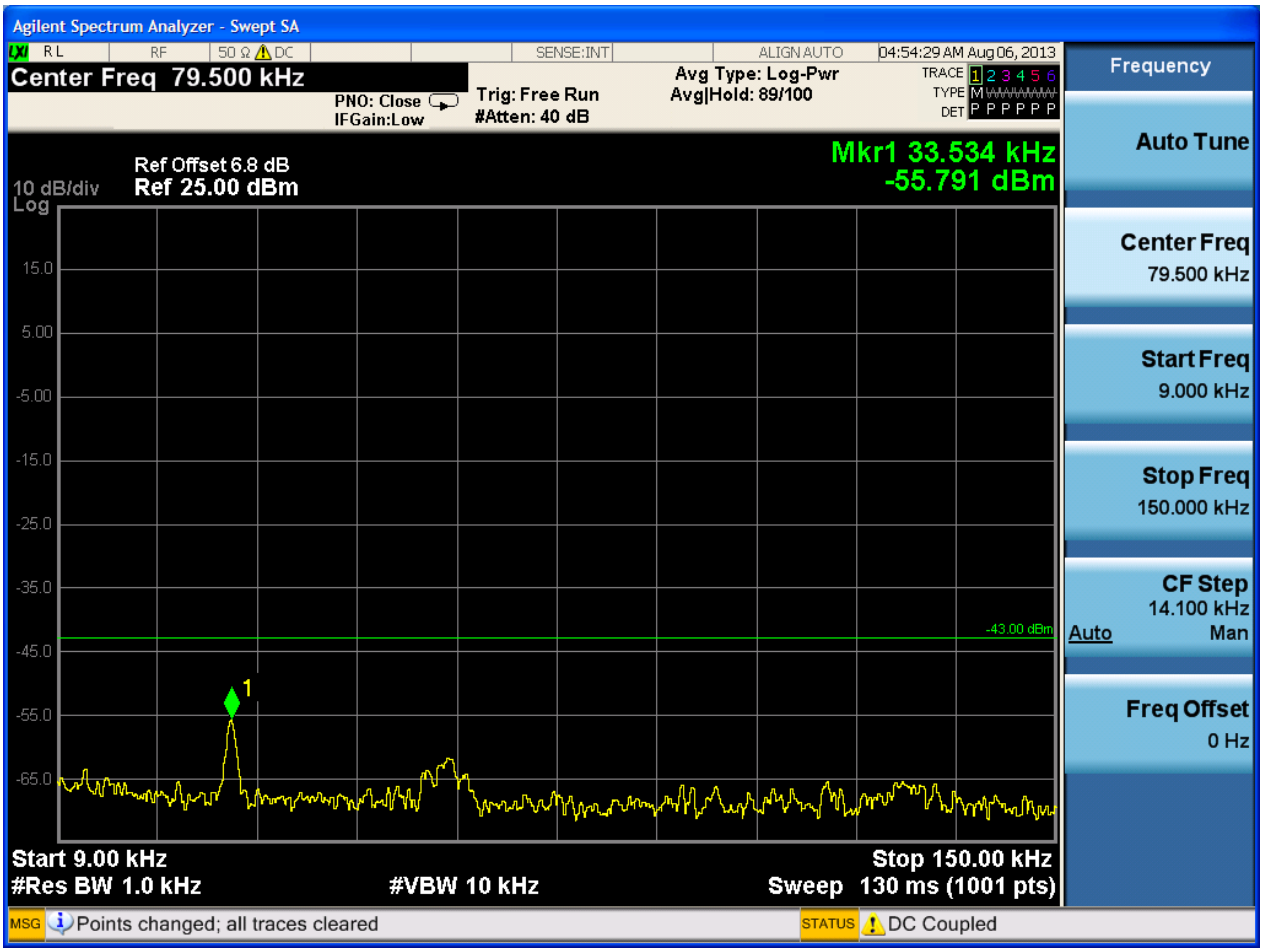
6.1.2.2.3 Test Channel = HCH



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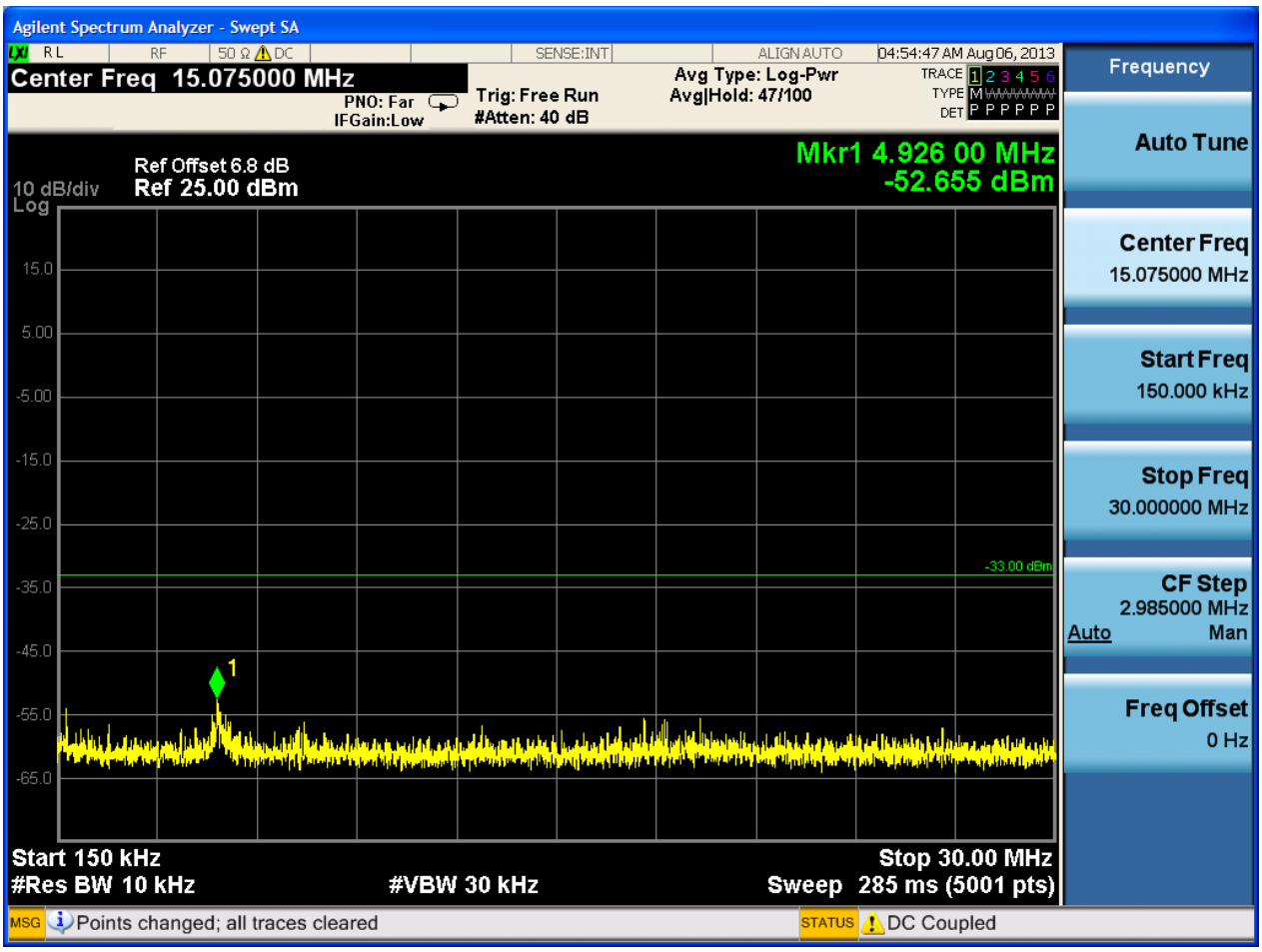

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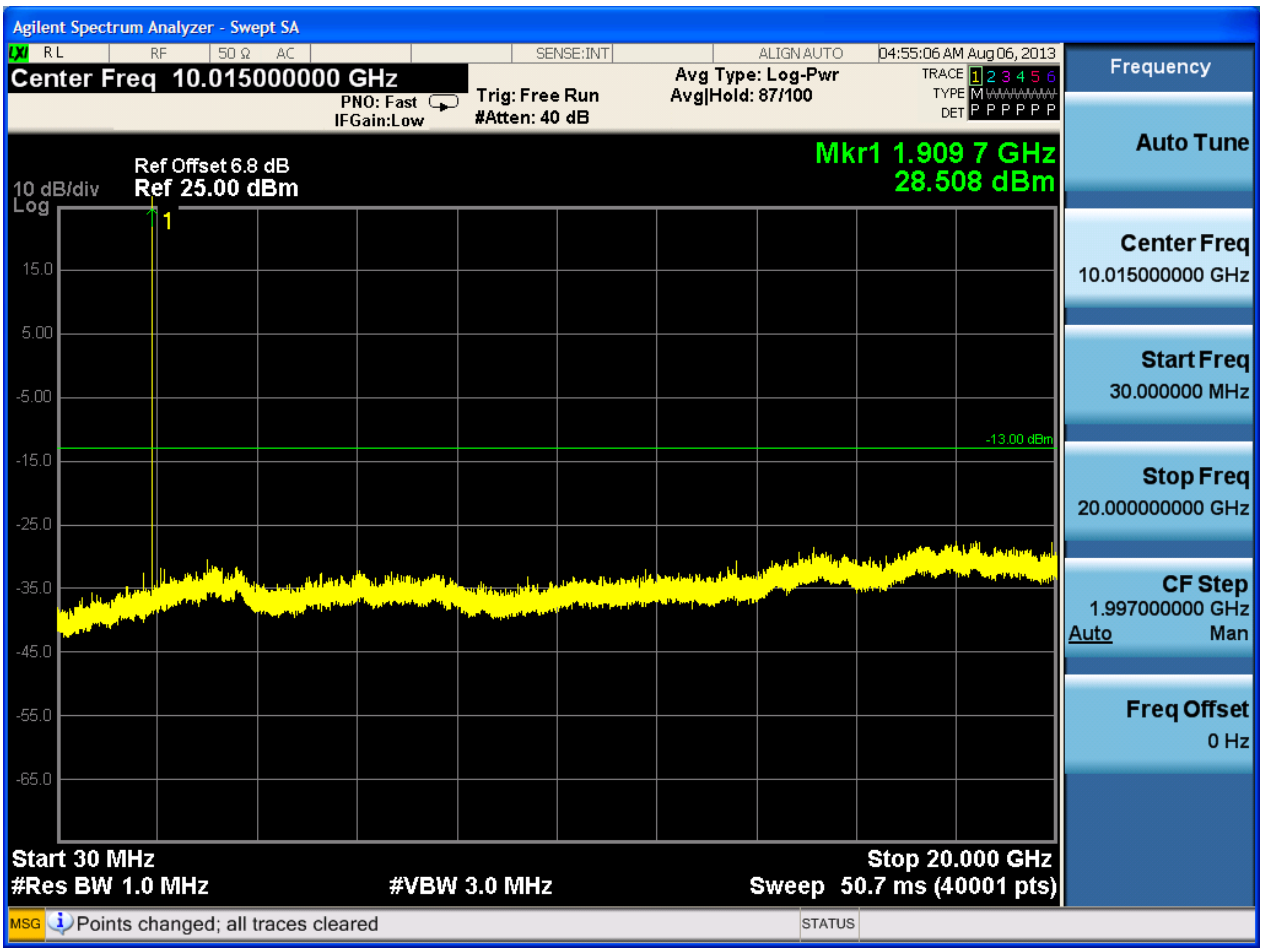

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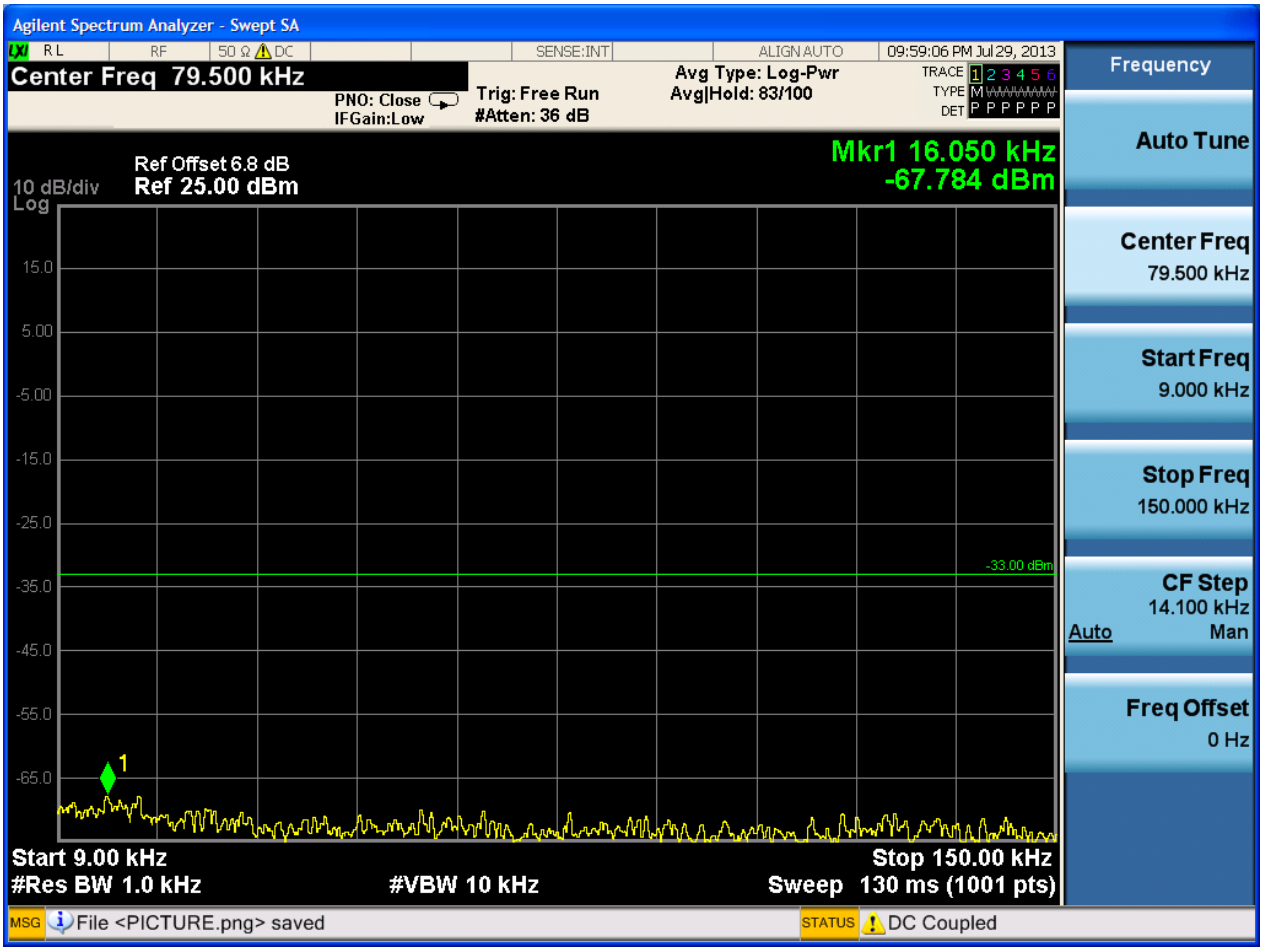
6.2 For UMTS

6.2.1 Test Band = WCDMA850

6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



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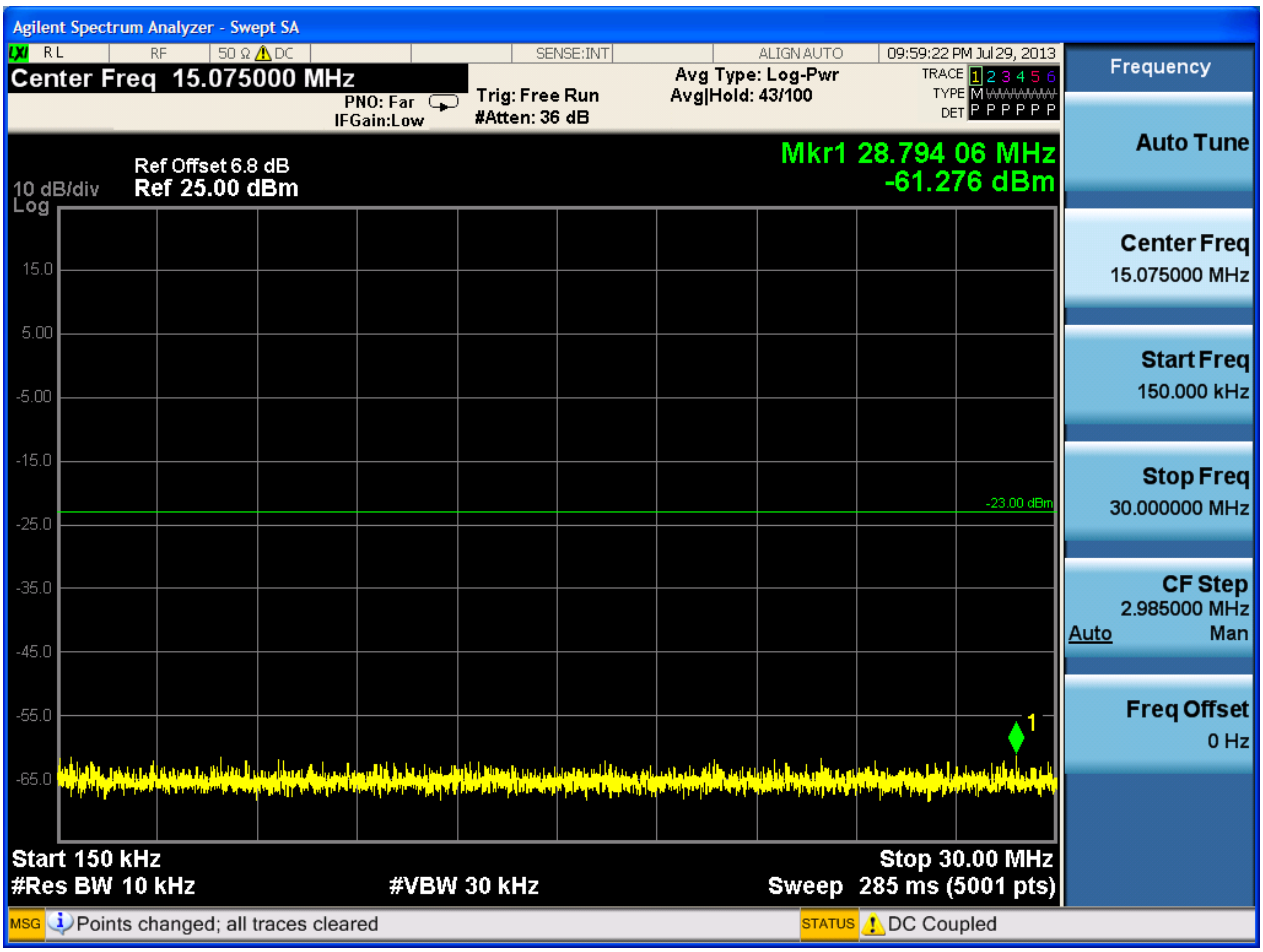

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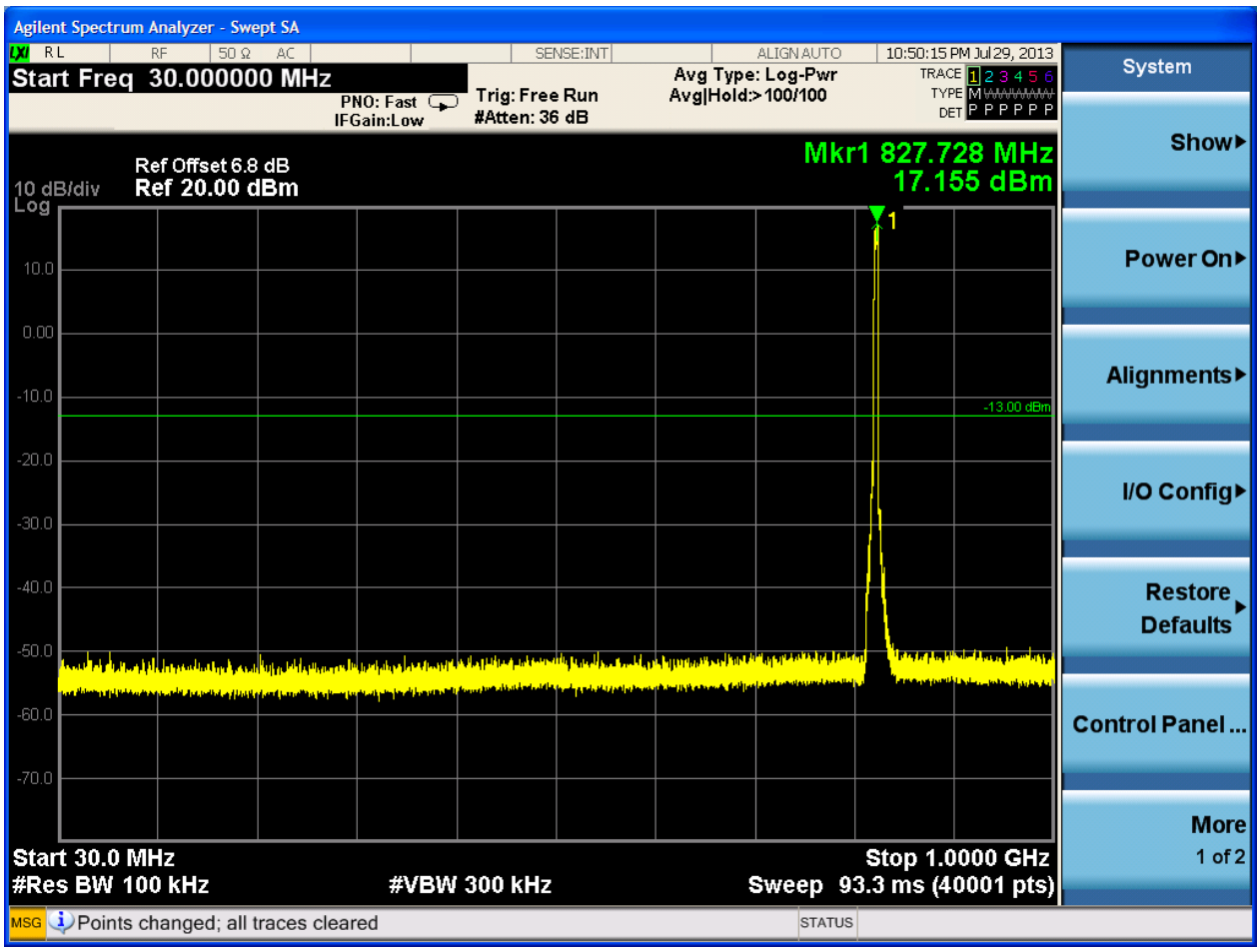

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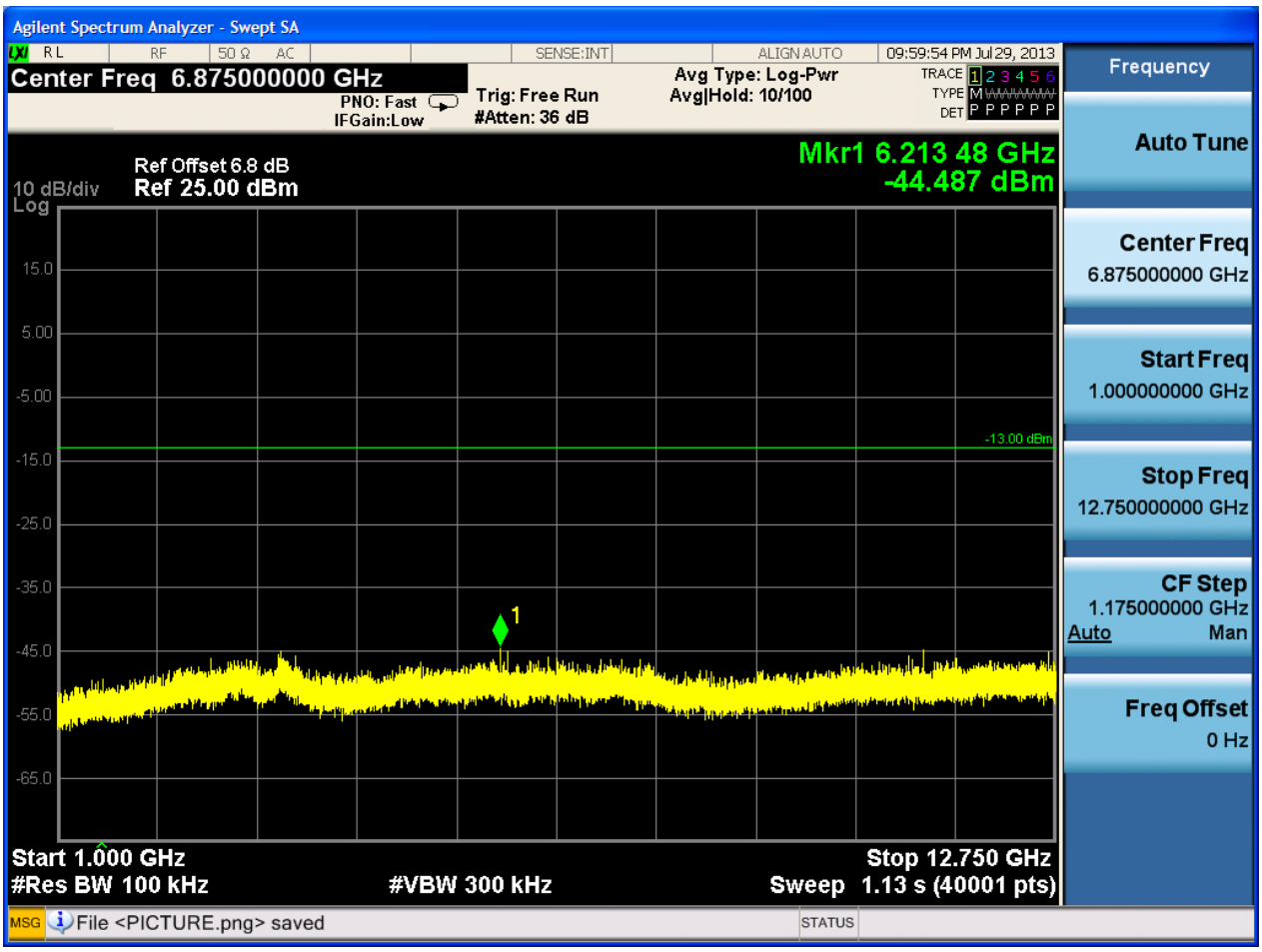

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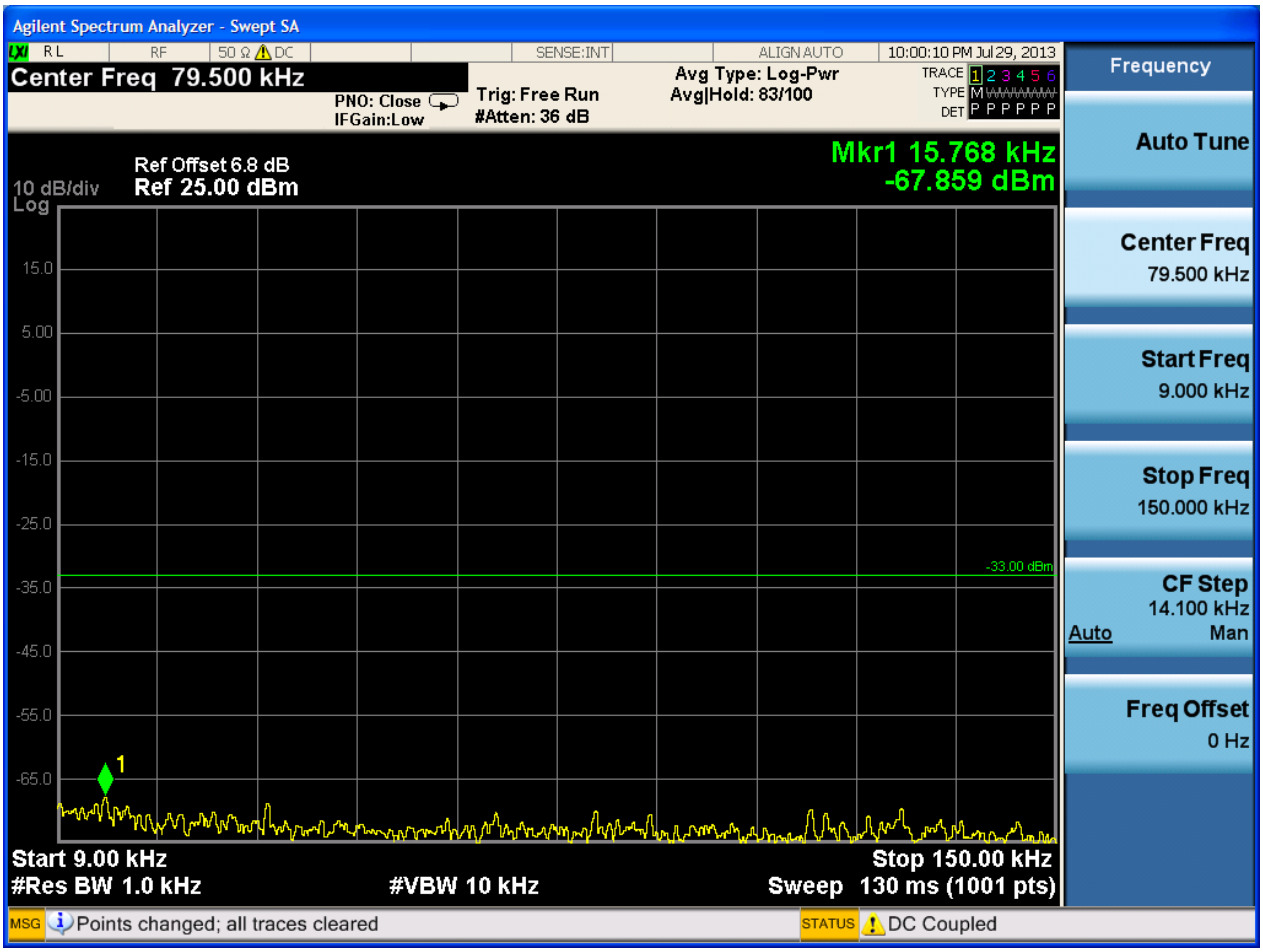
6.2.1.1.2 Test Channel = MCH



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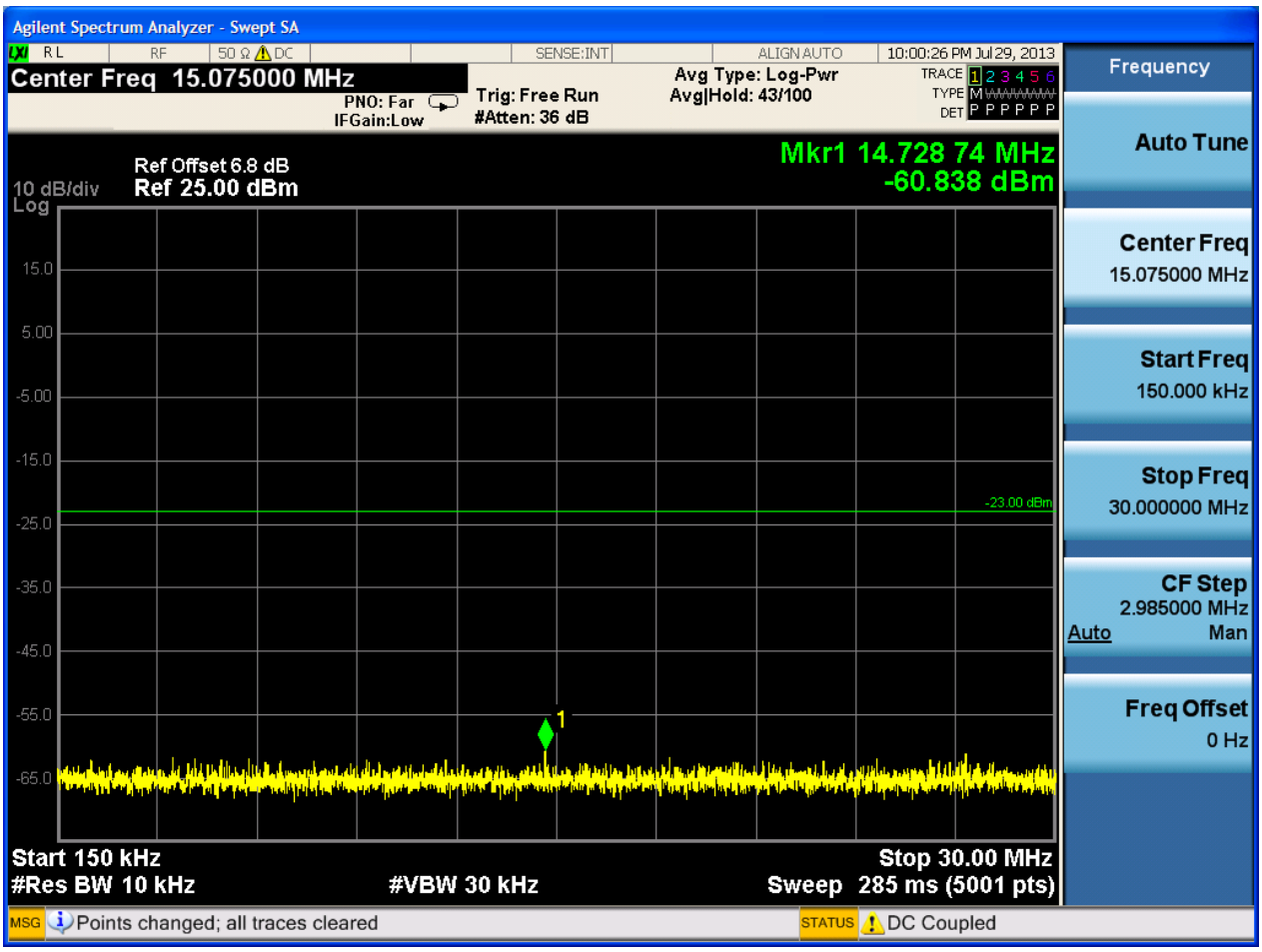

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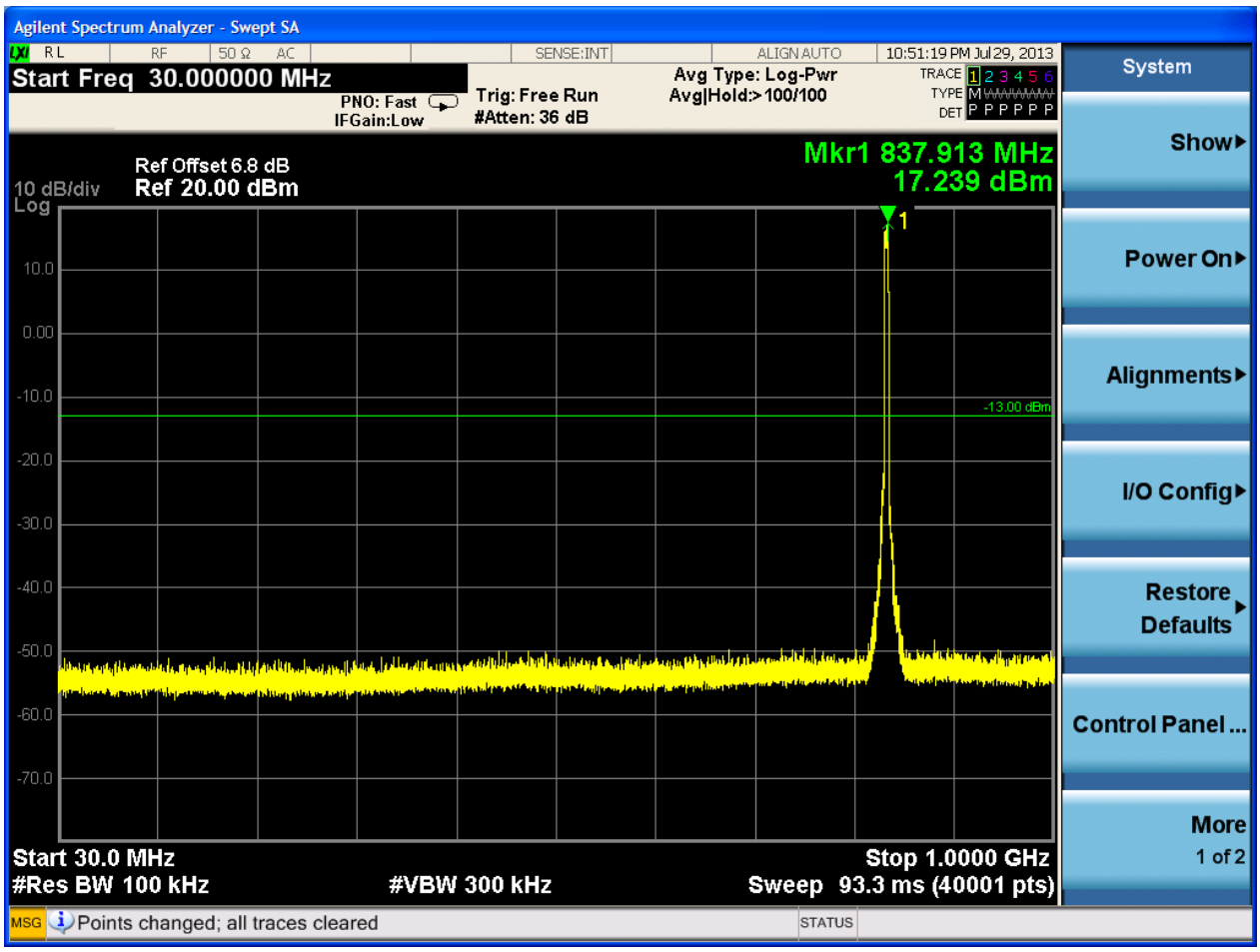

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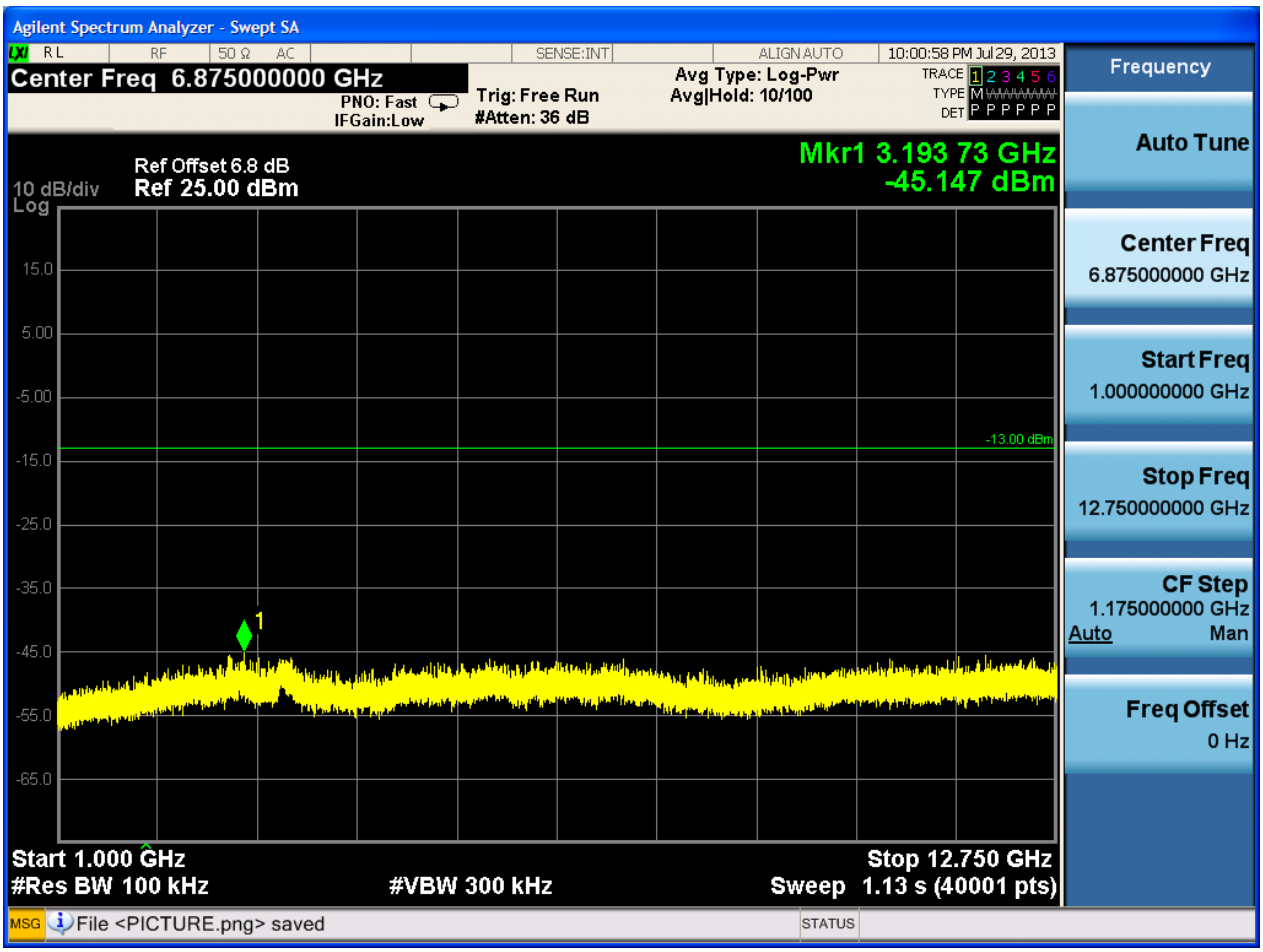

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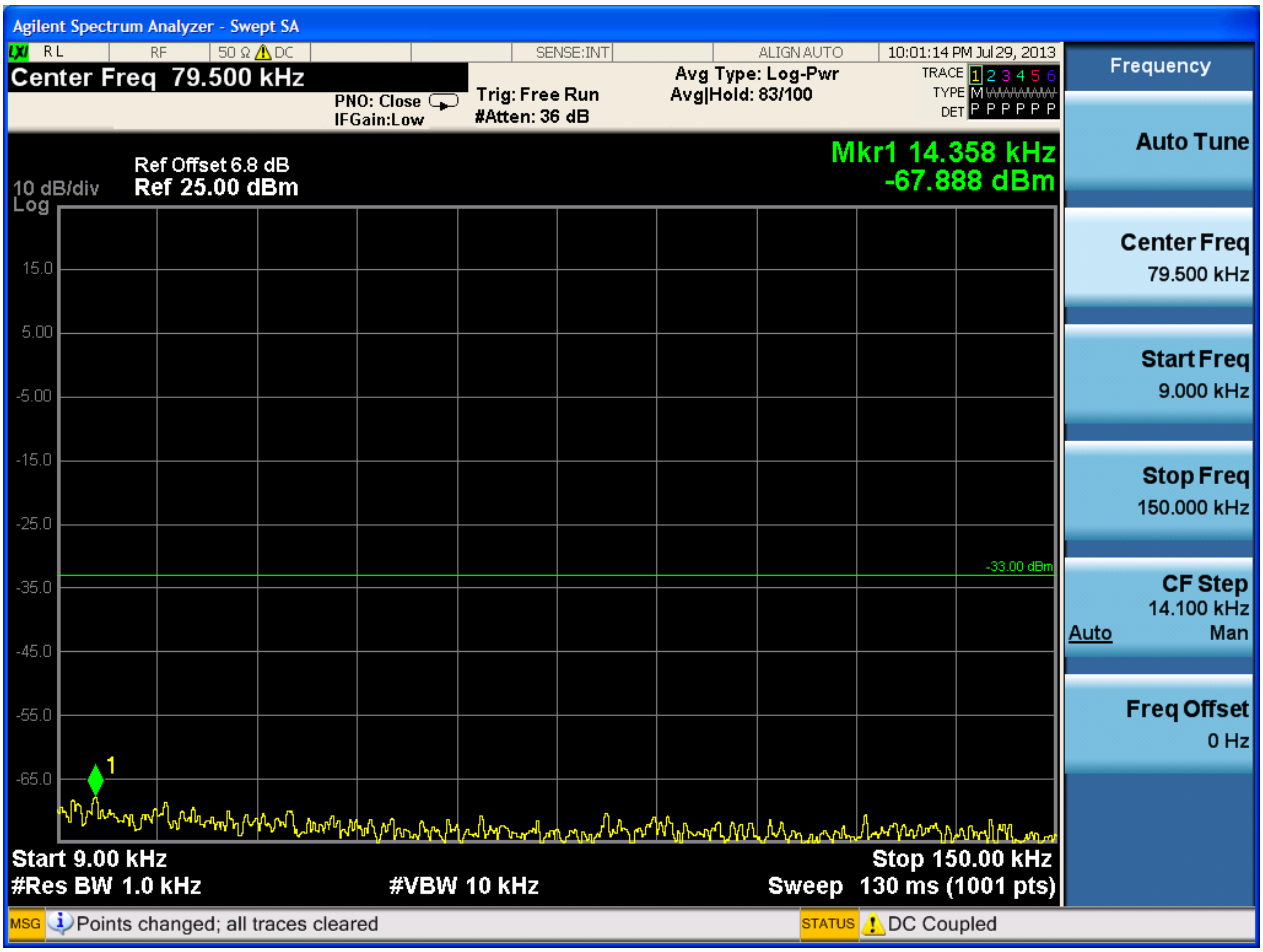
6.2.1.1.3 Test Channel = HCH



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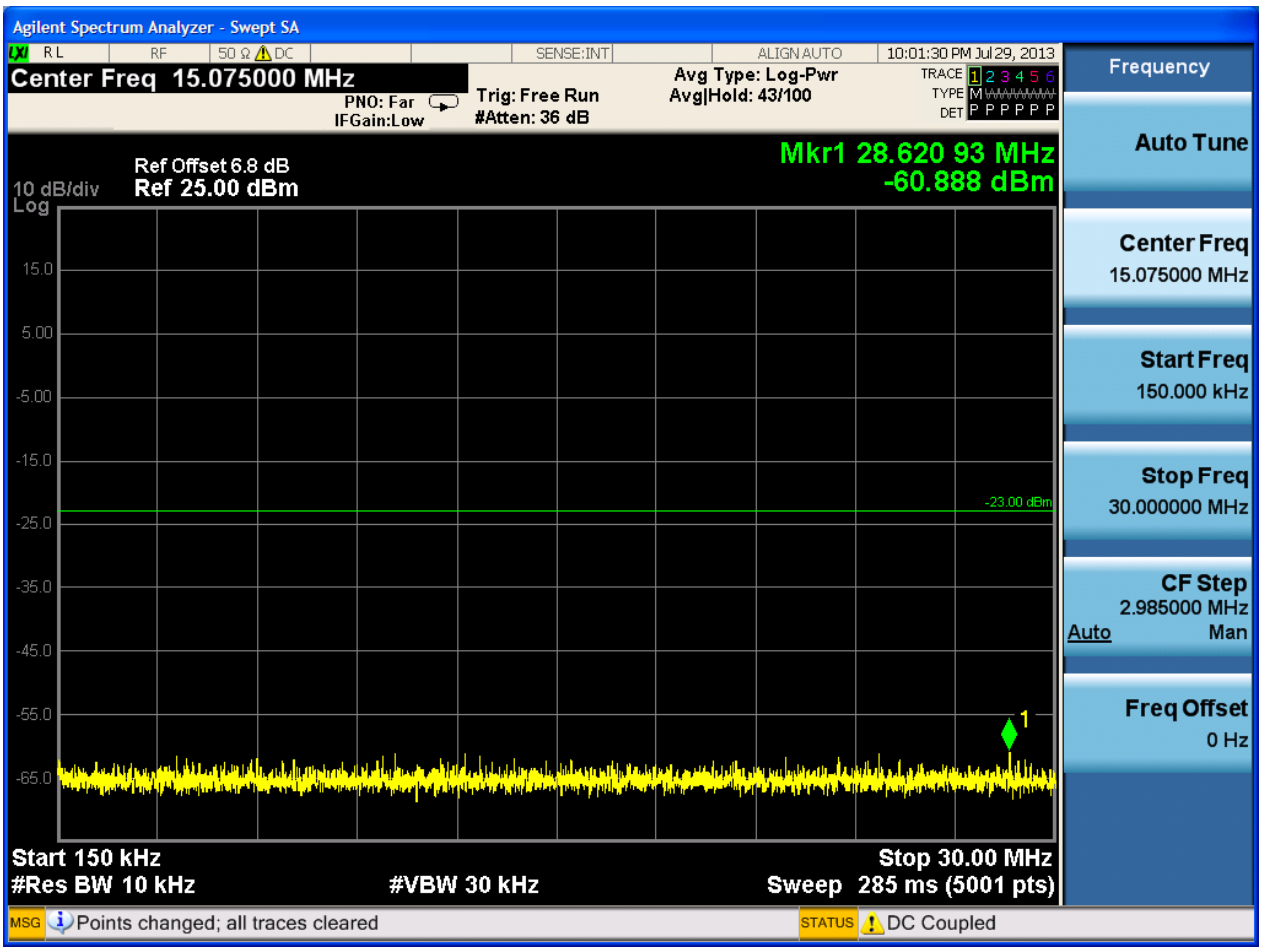

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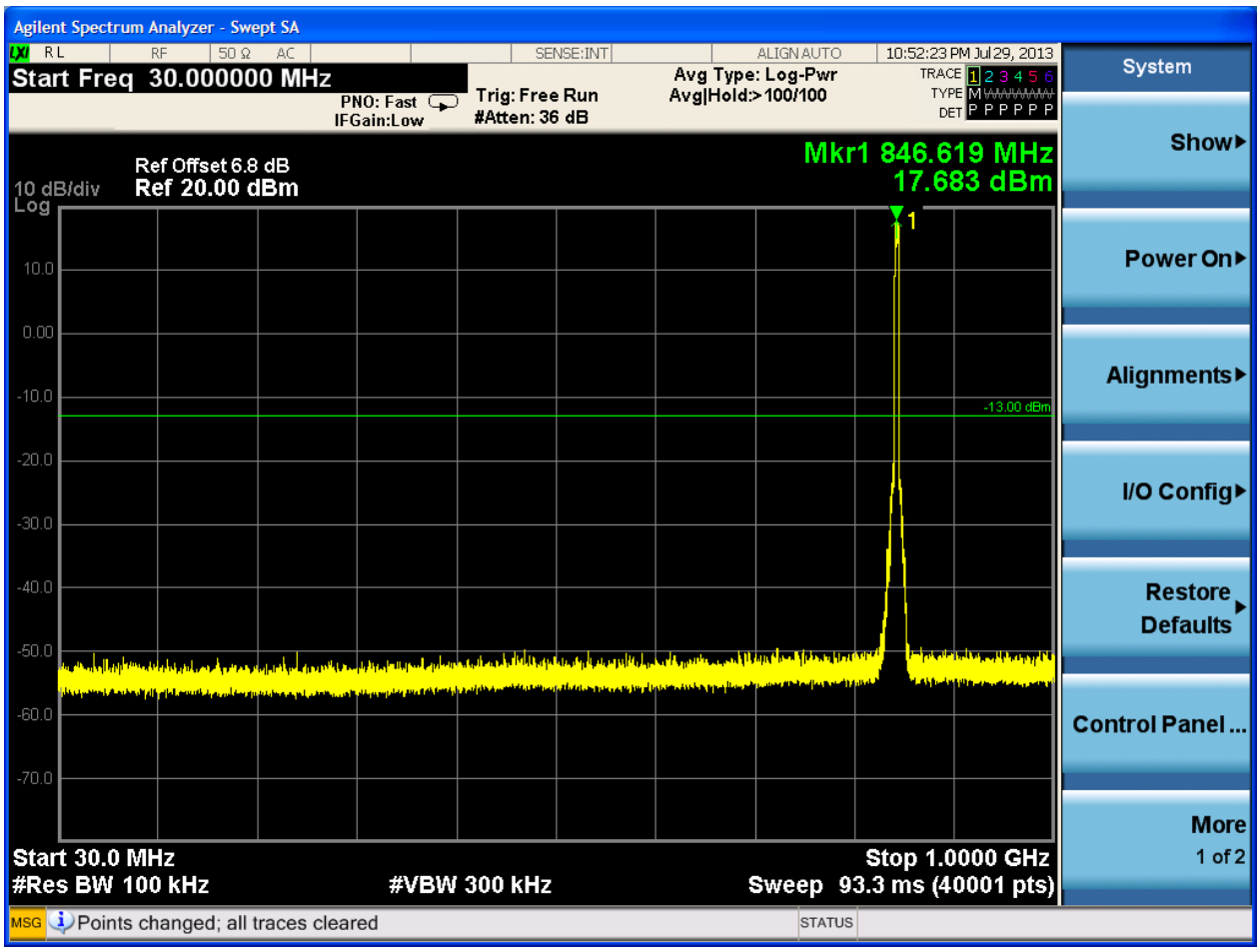

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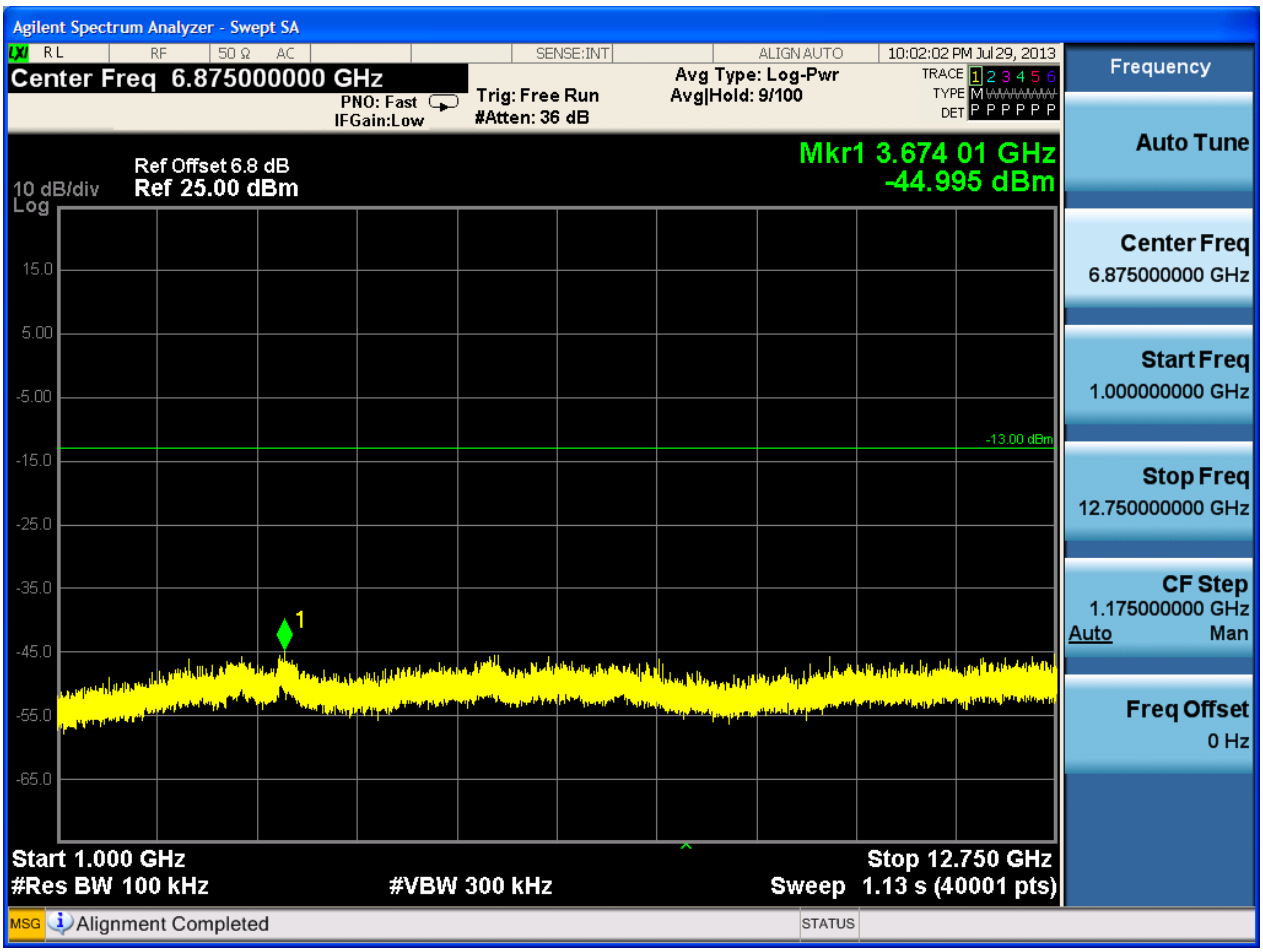

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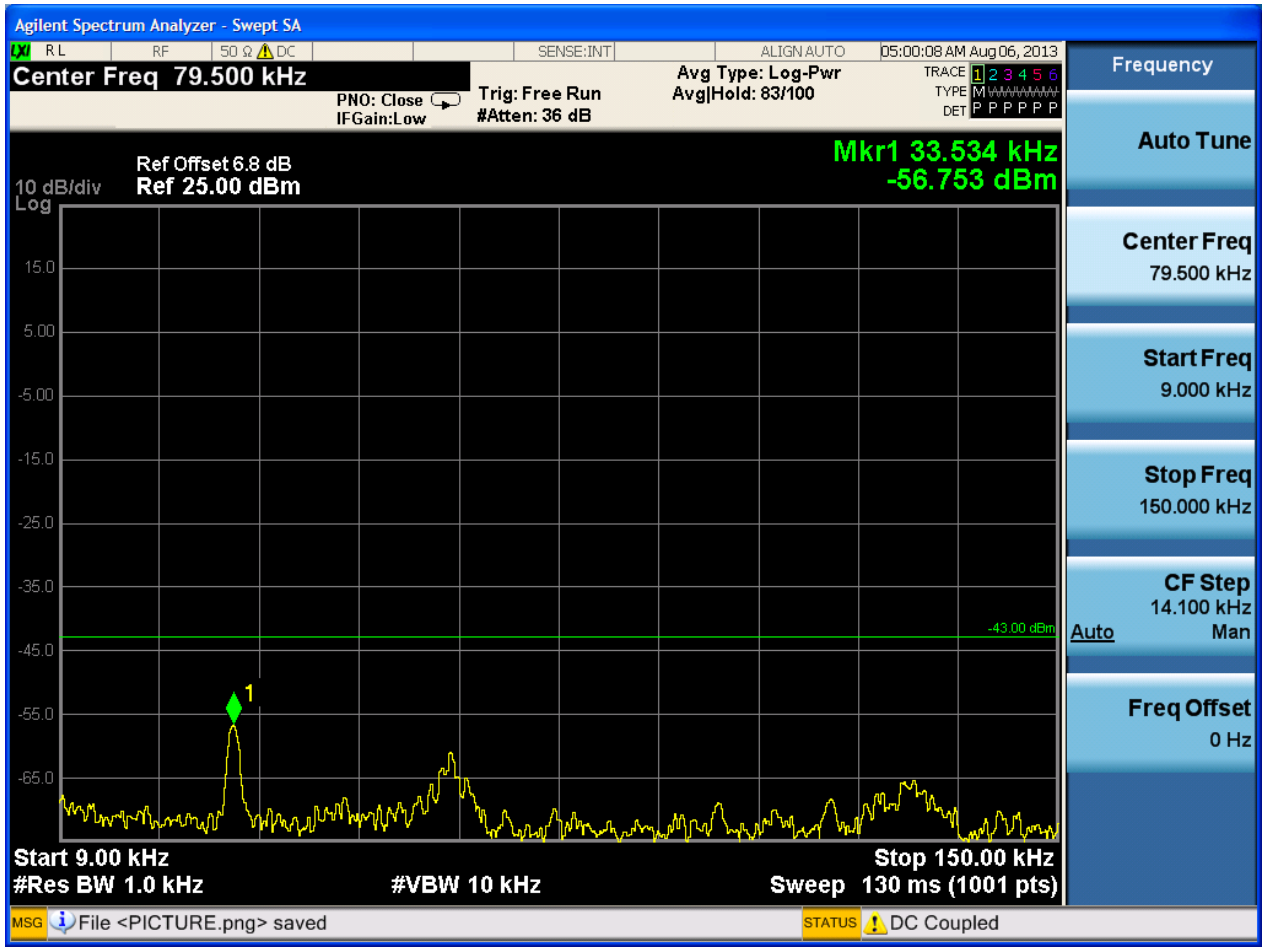
6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH



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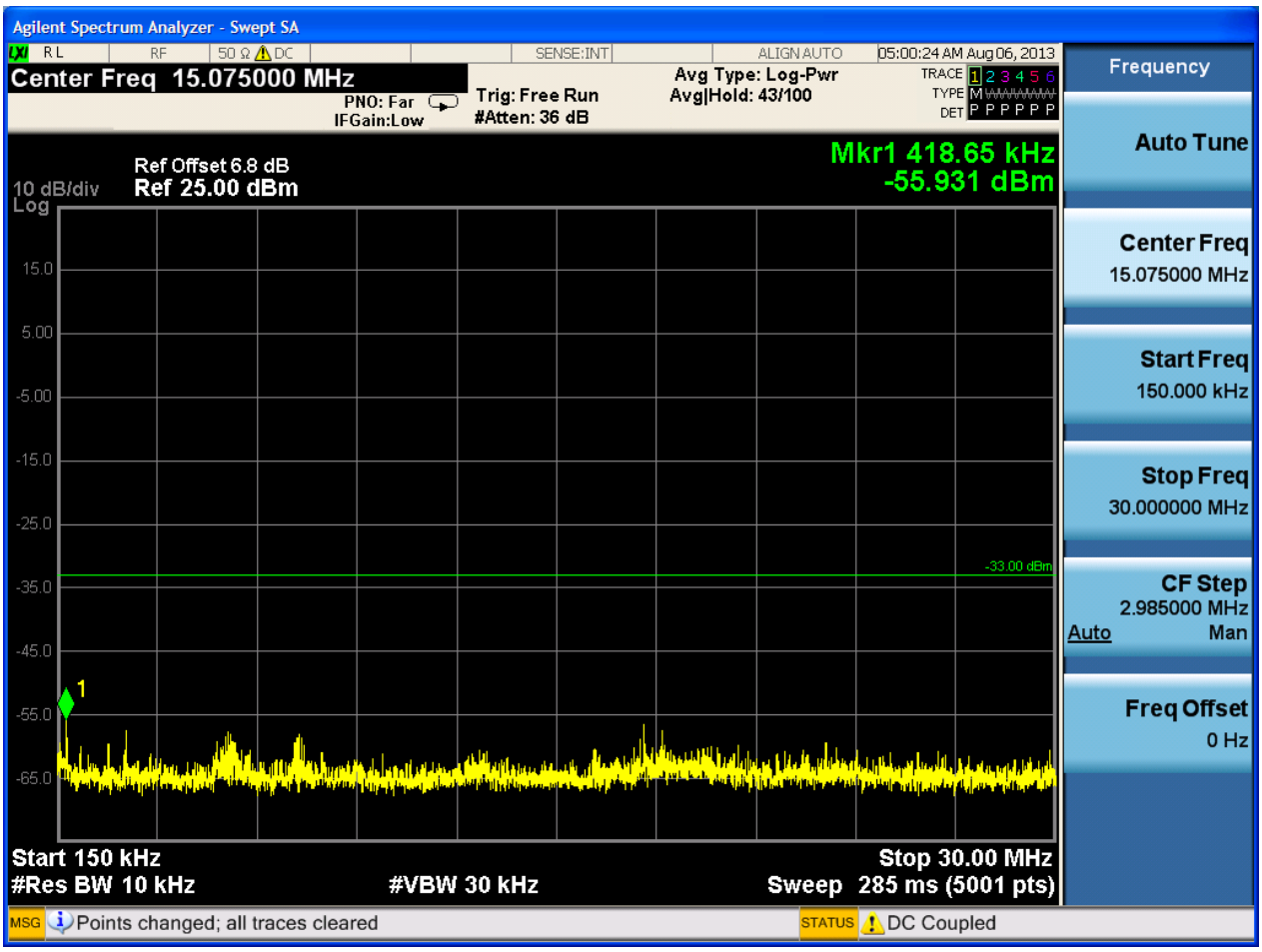

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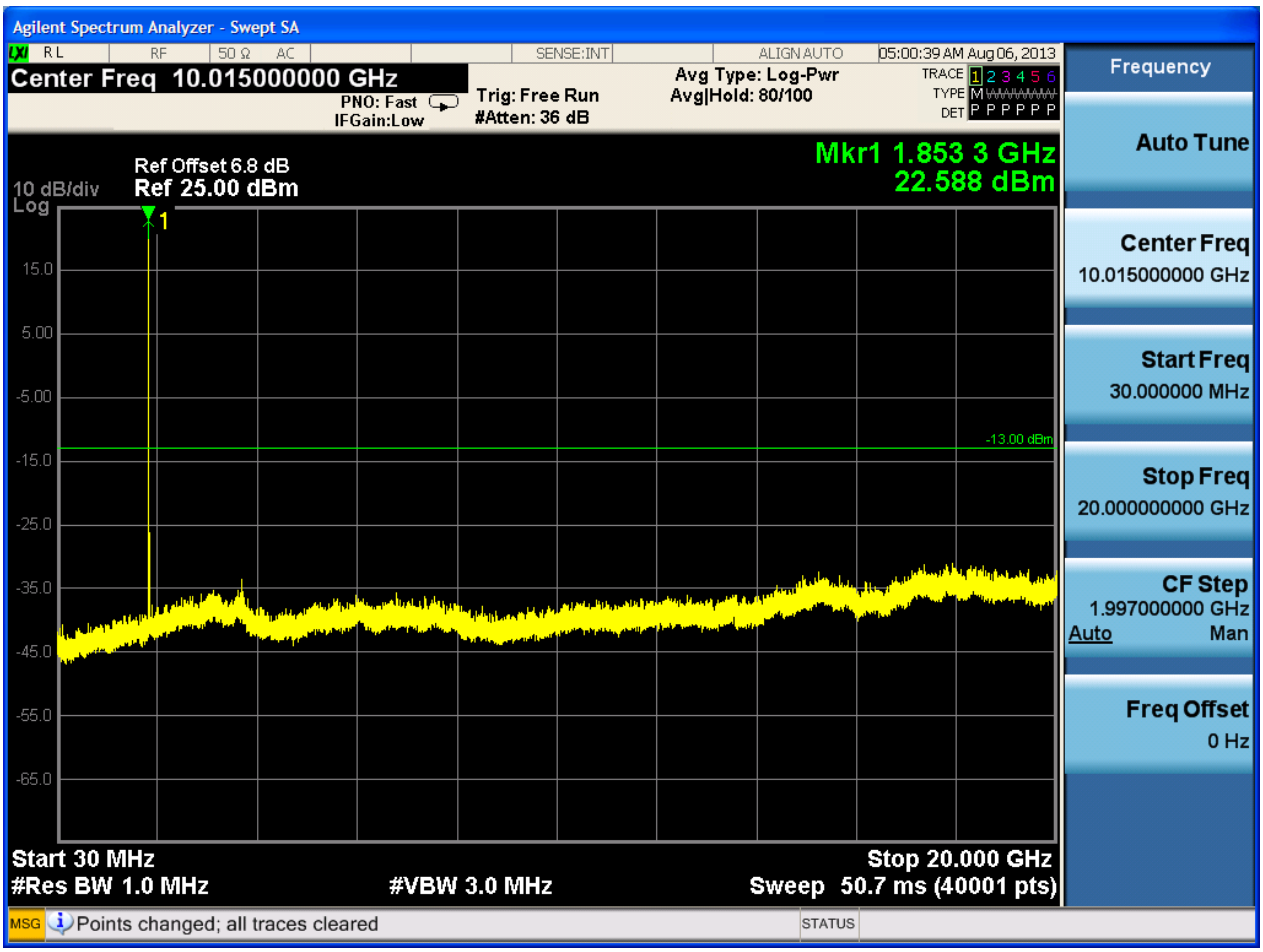

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6.2.2.1.2 Test Channel = MCH

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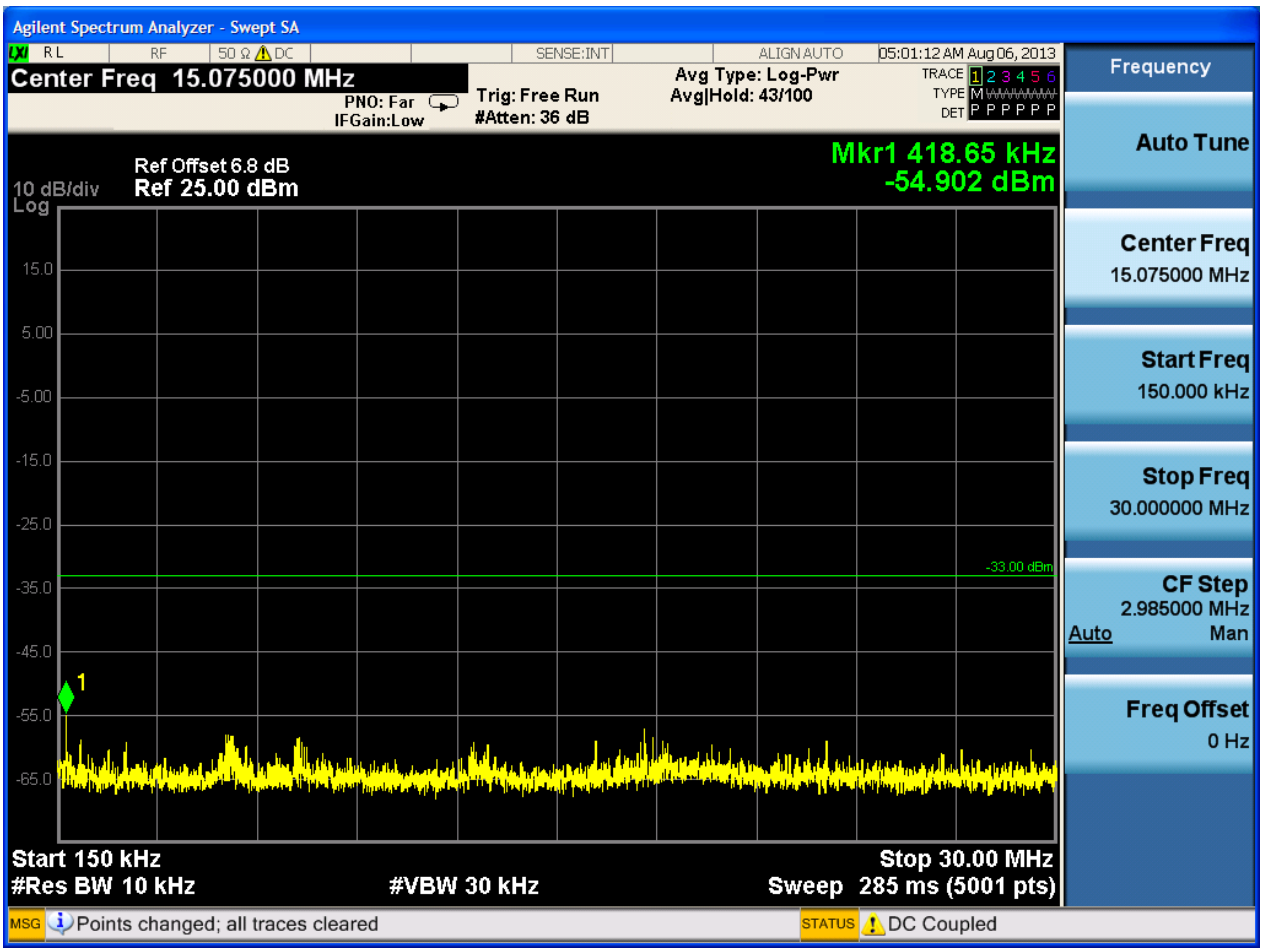

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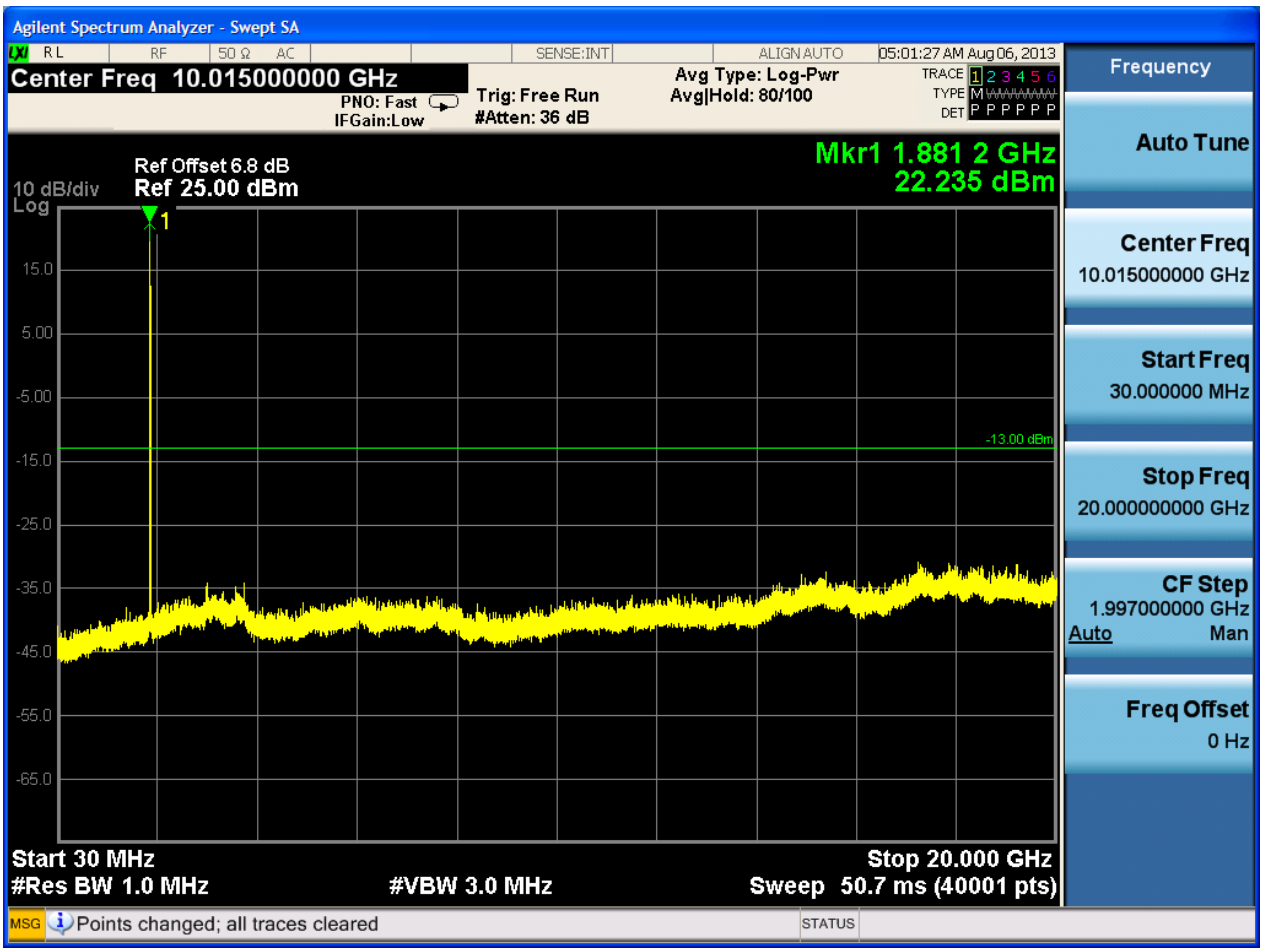

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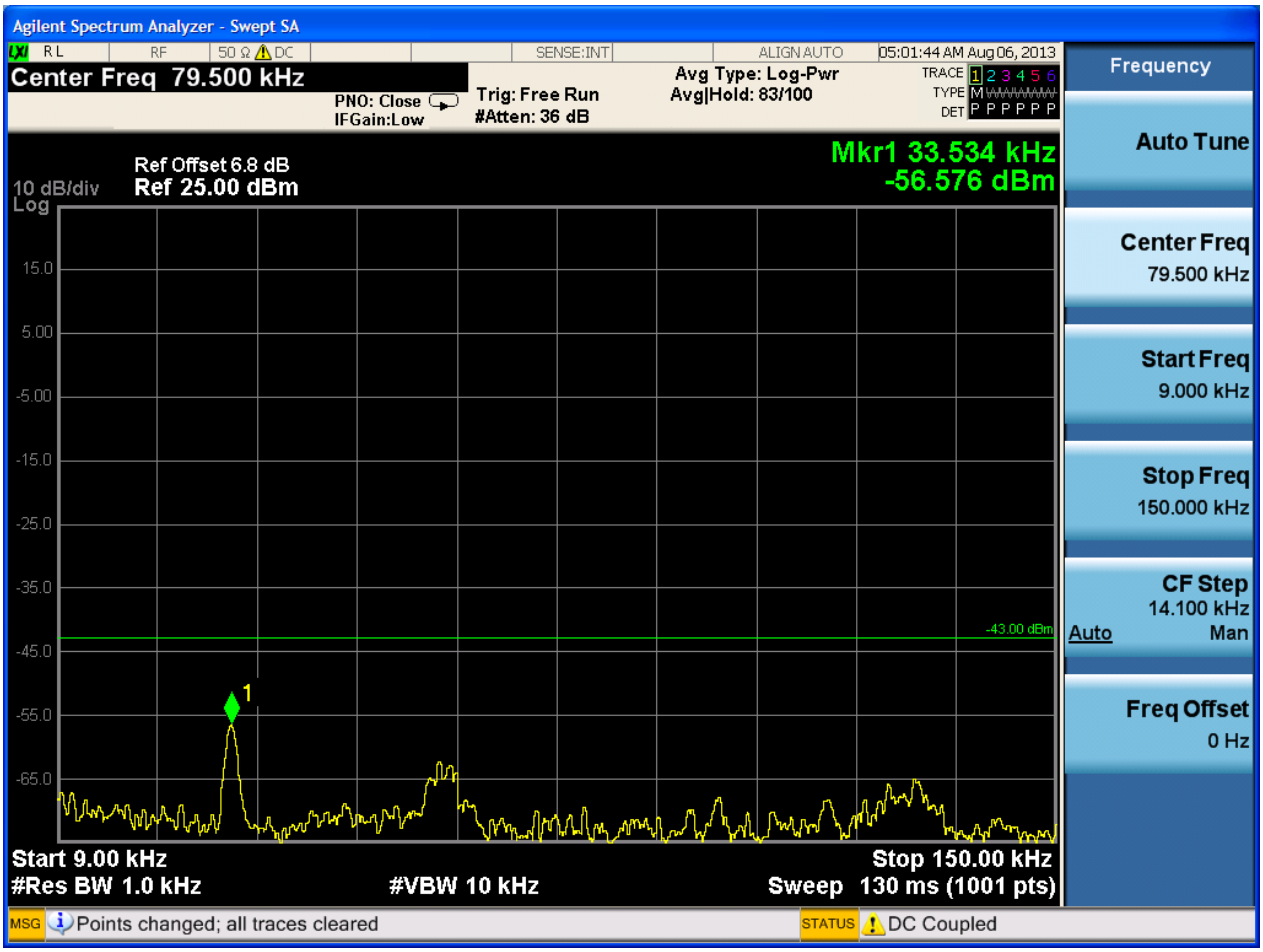
6.2.2.1.3 Test Channel = HCH



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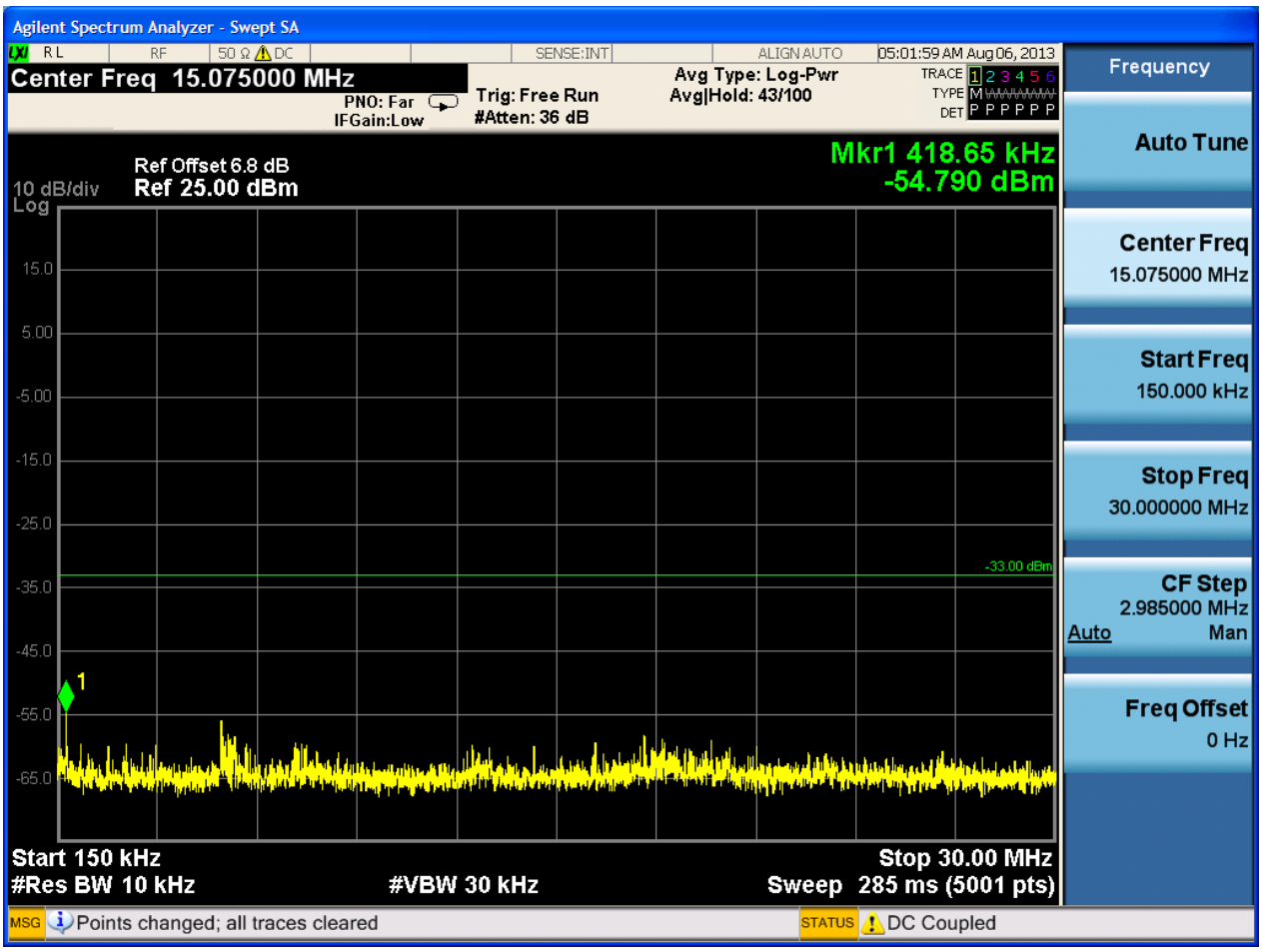

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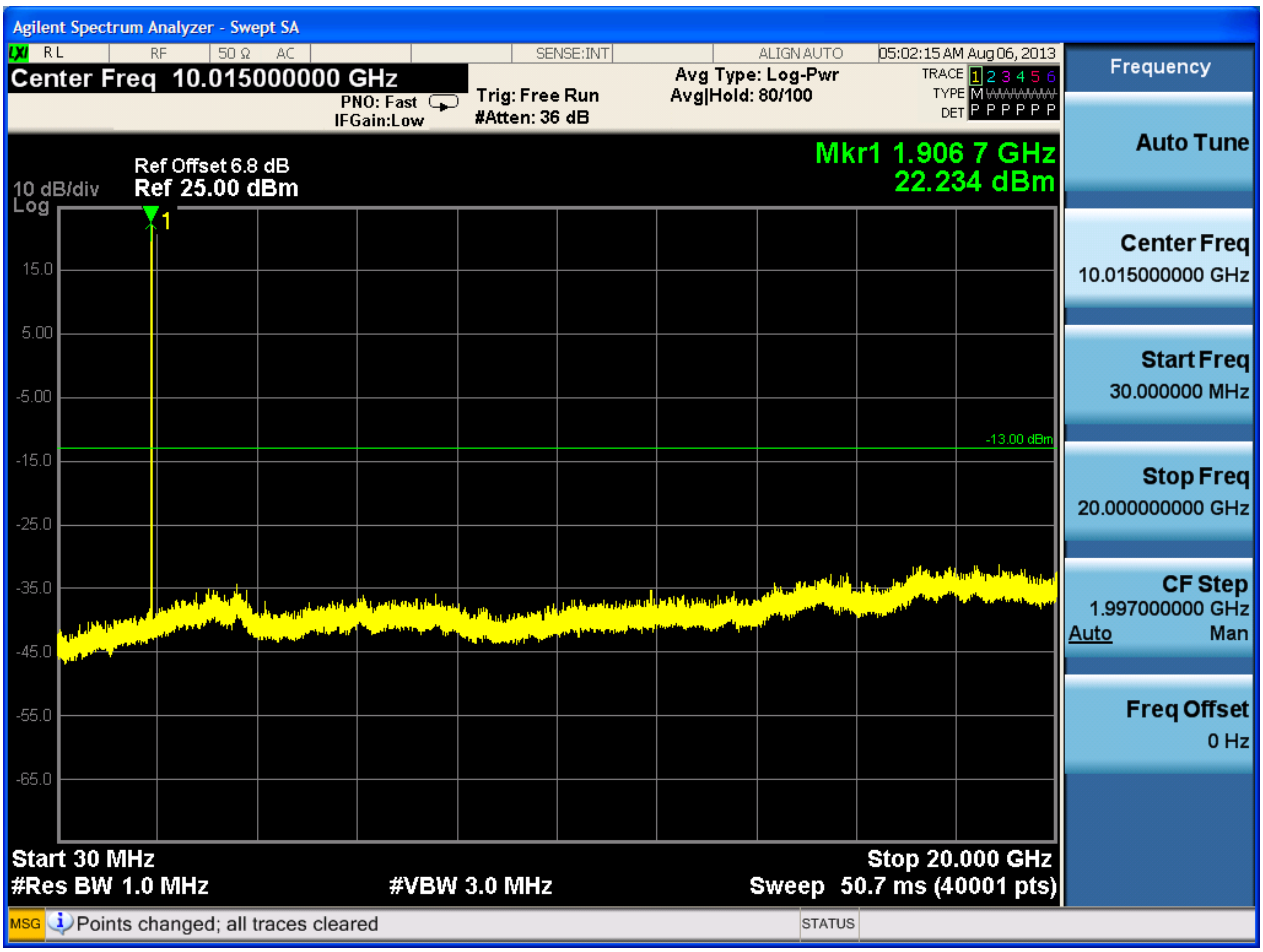

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7Appendix_G: Field Strength of Spurious Radiation

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

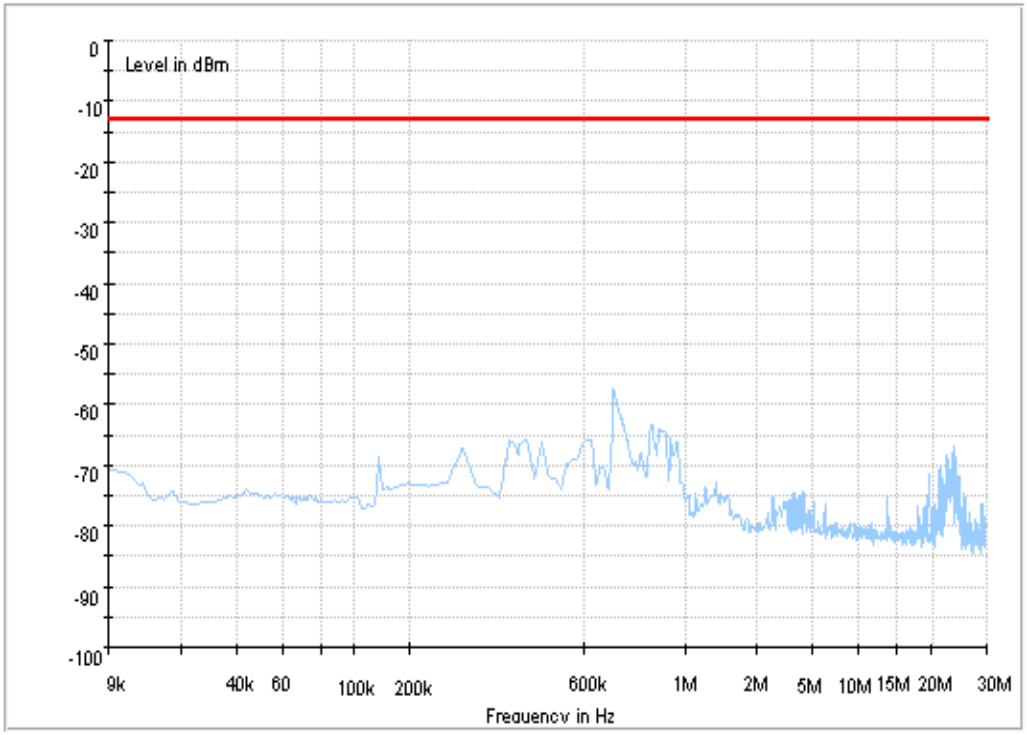
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

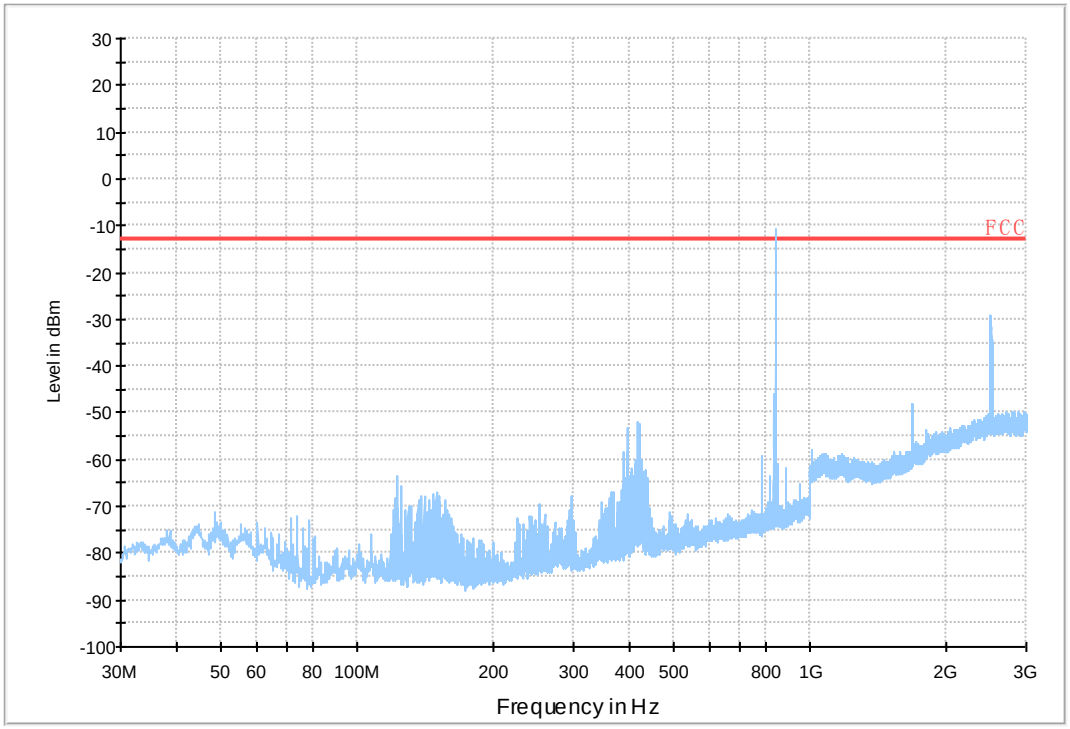
7.1 For GSM

7.1.1 Test Band = GSM850

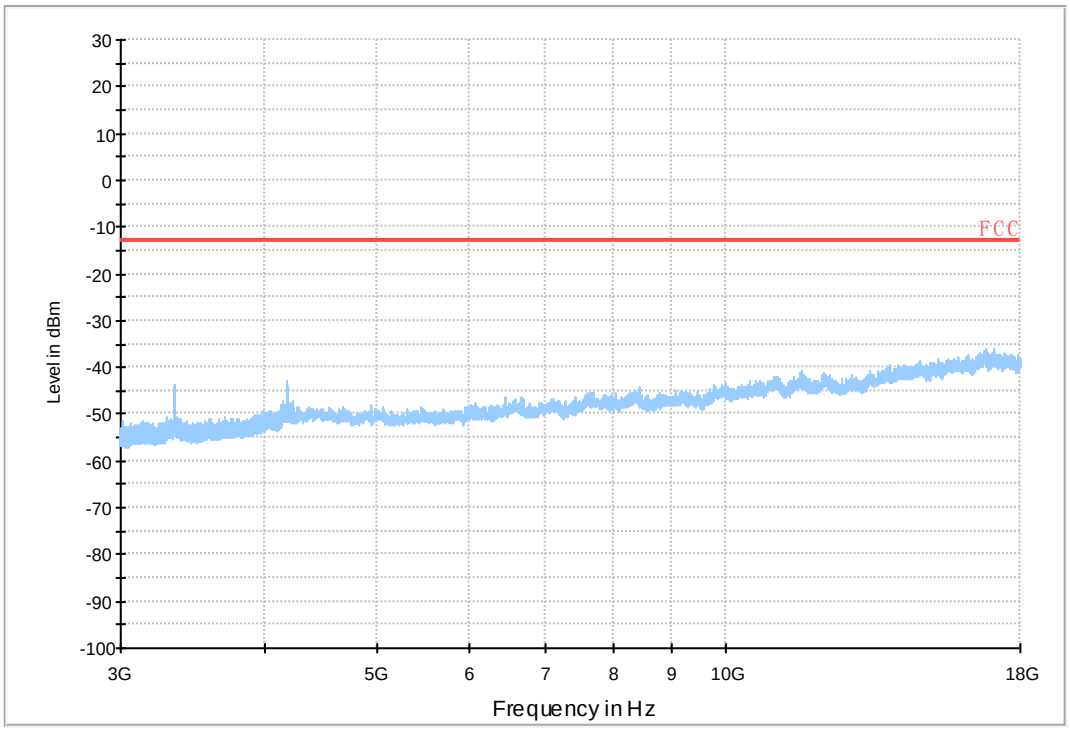
7.1.1.1 Test Mode = GSM/TM1



Copy of FCC PART 22 GSM850_L



Copy of FCC PART 22 GSM850_H



7.1.1.2 Test Mode = GSM/TM2

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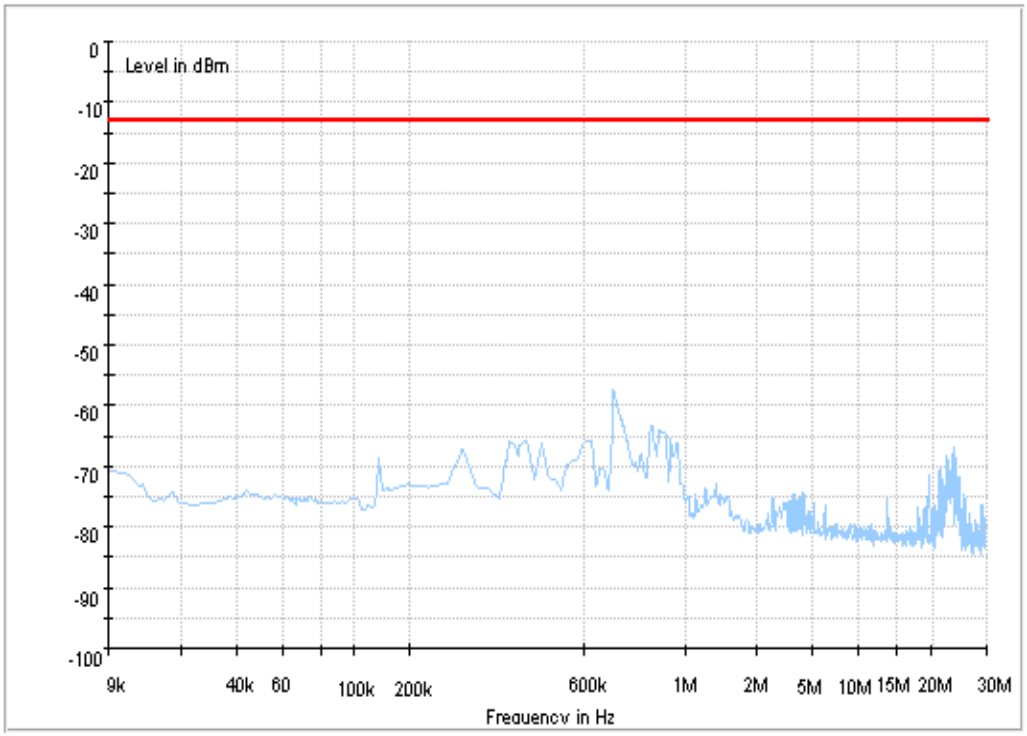

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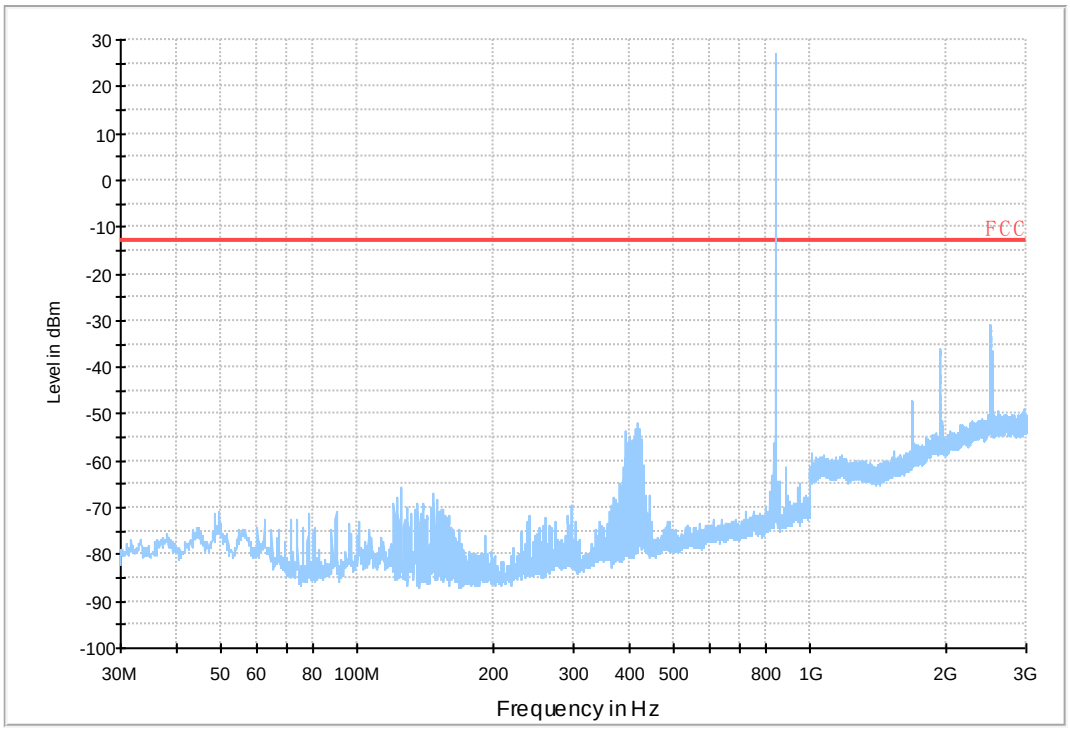

EDGE850_DBM-3

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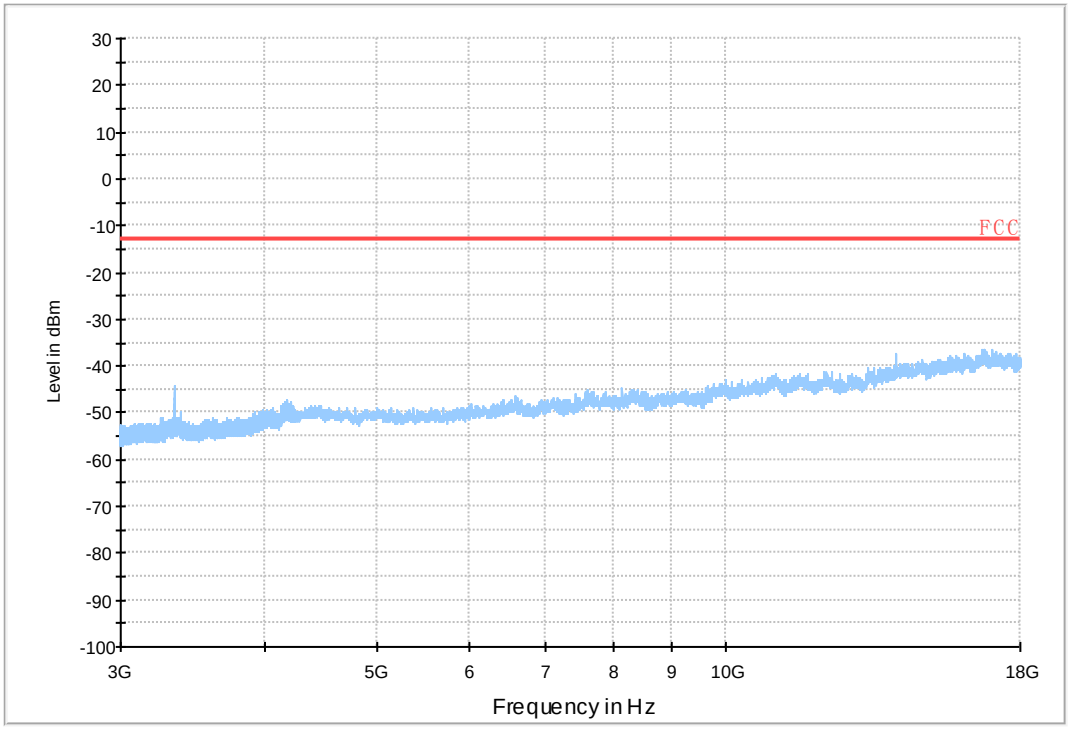
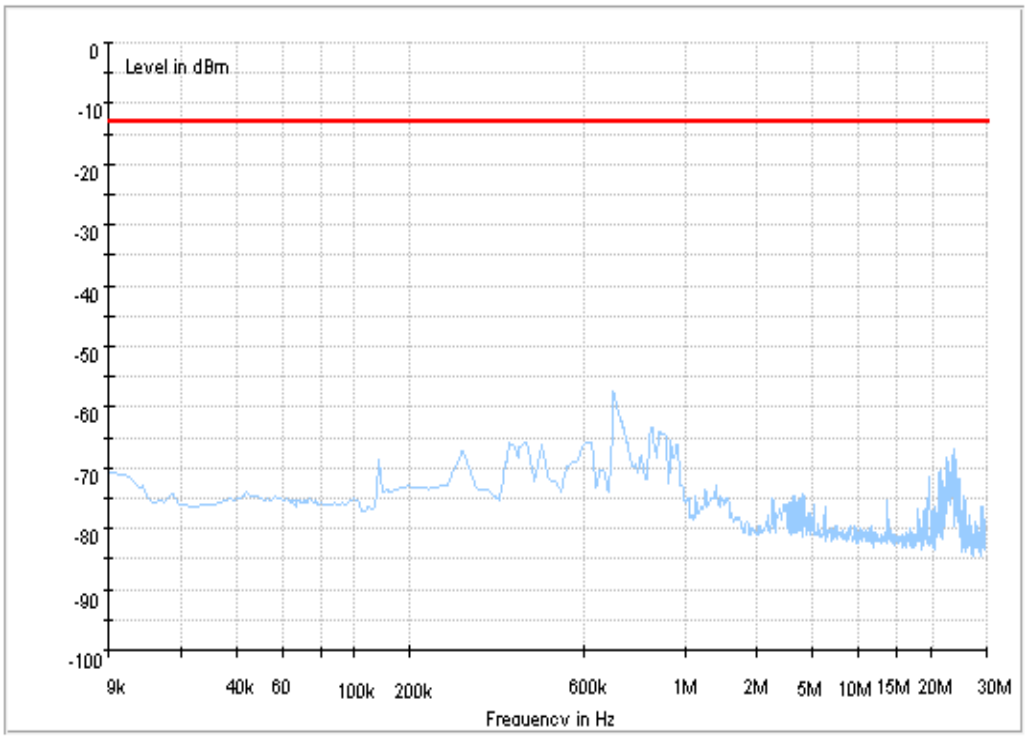


7.1.2 Test Band = GSM1900

7.1.2.1 Test Mode = GSM/TM1



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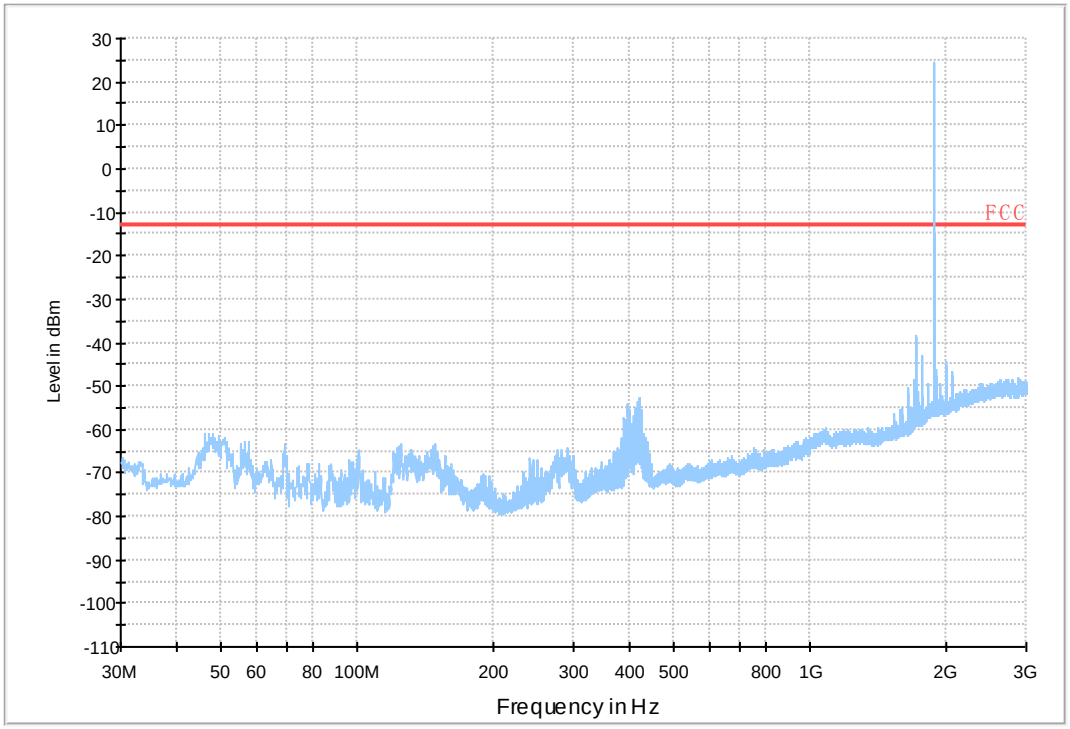

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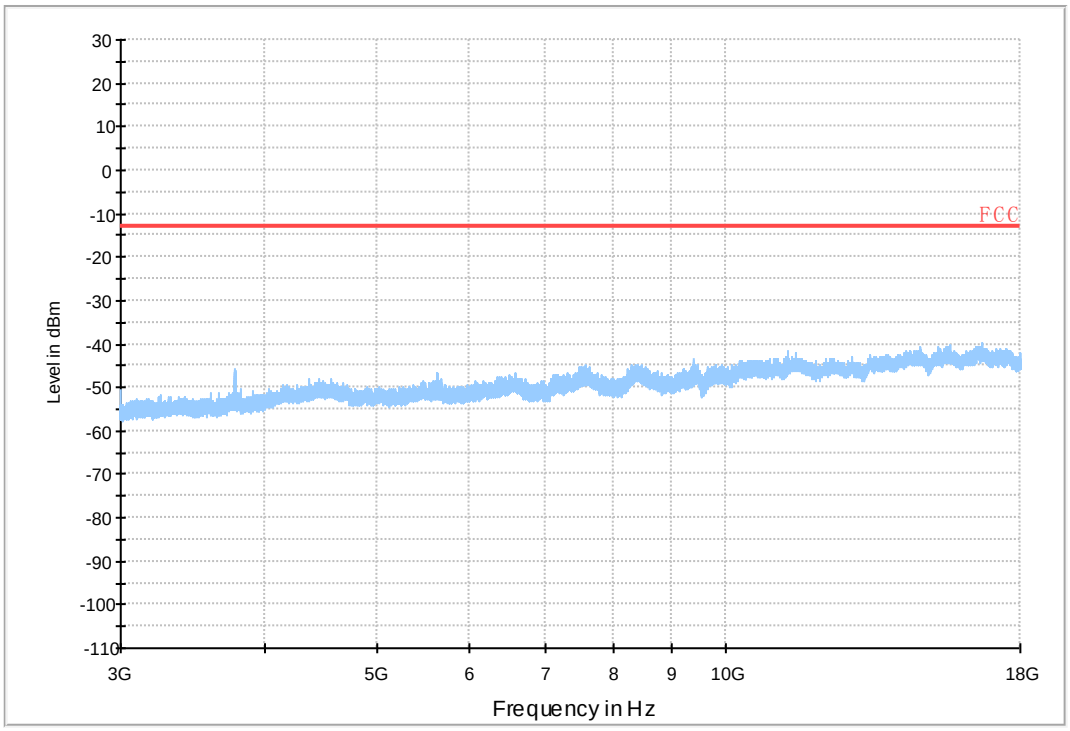

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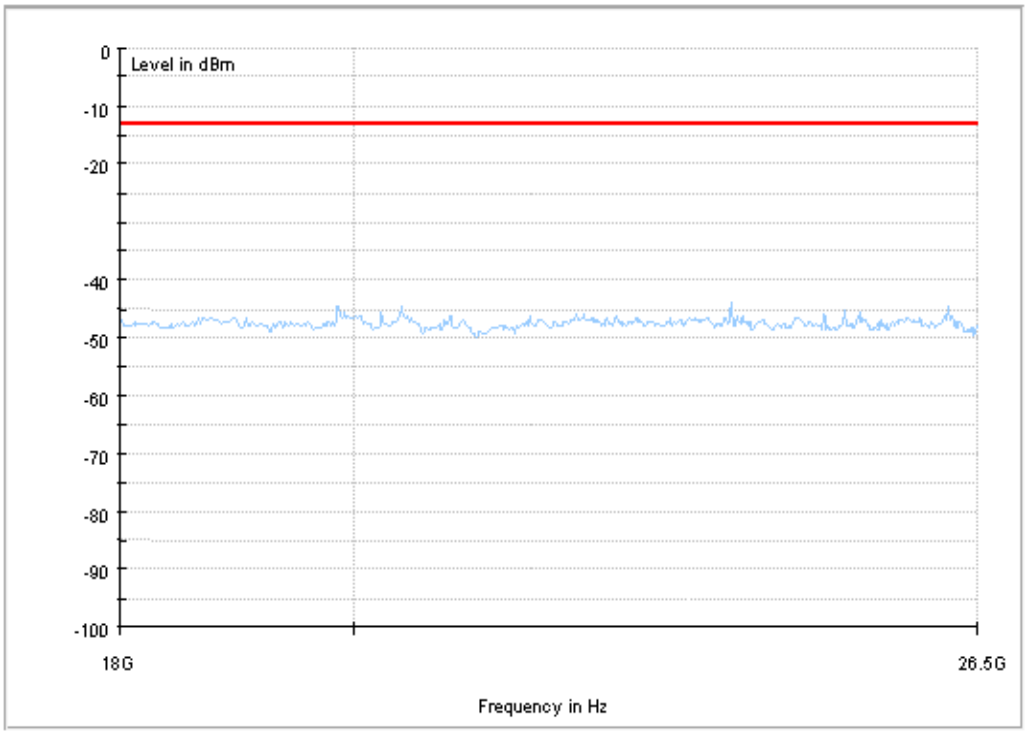
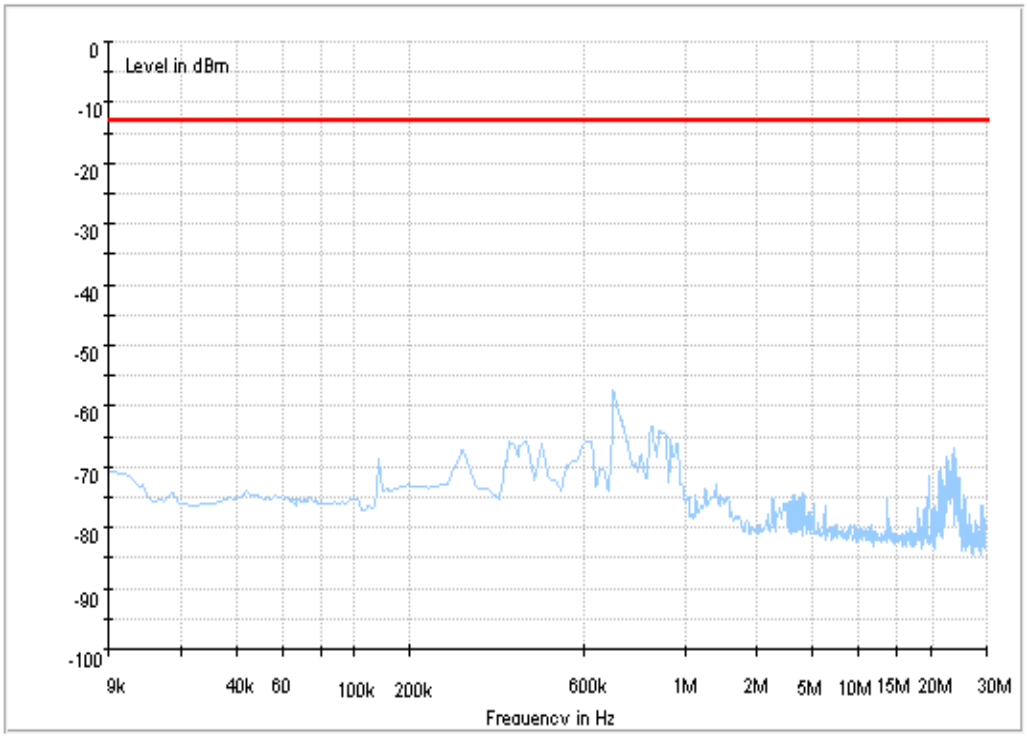


7.1.2.2 Test Mode = GSM/TM2



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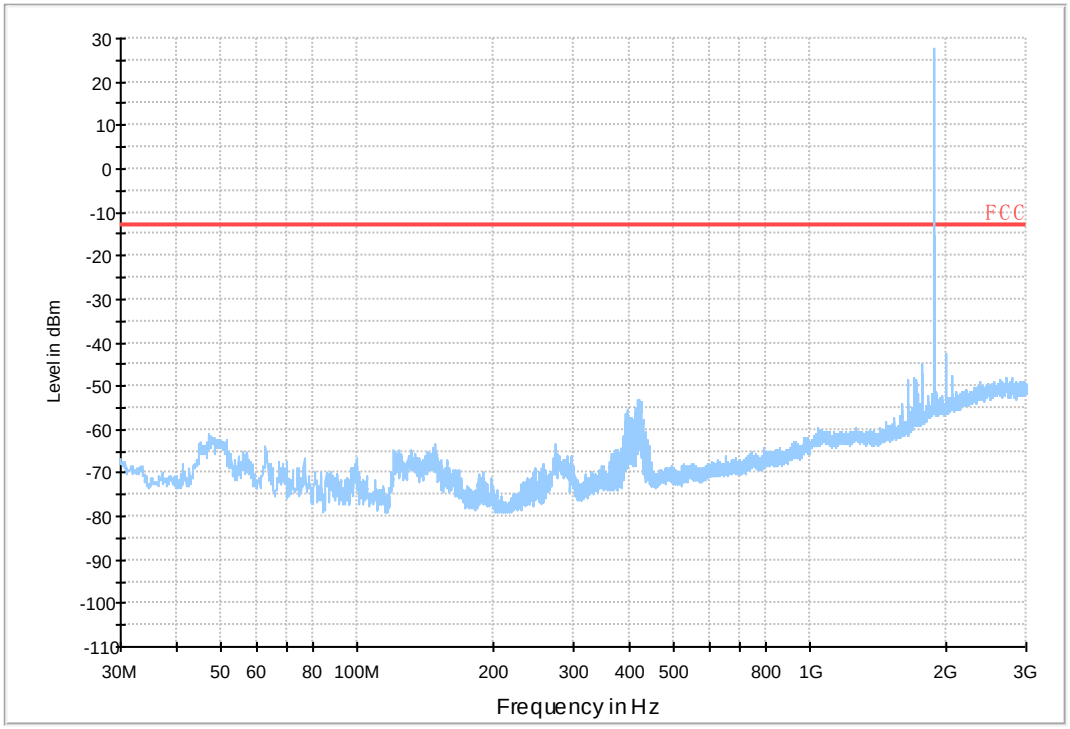

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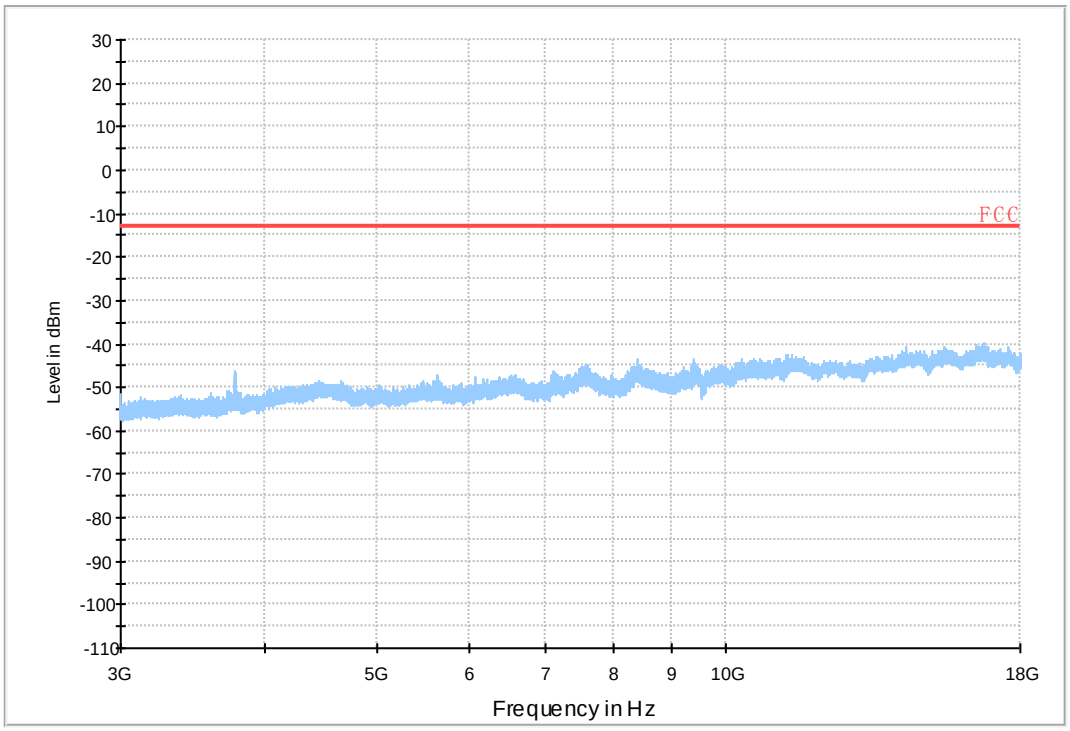

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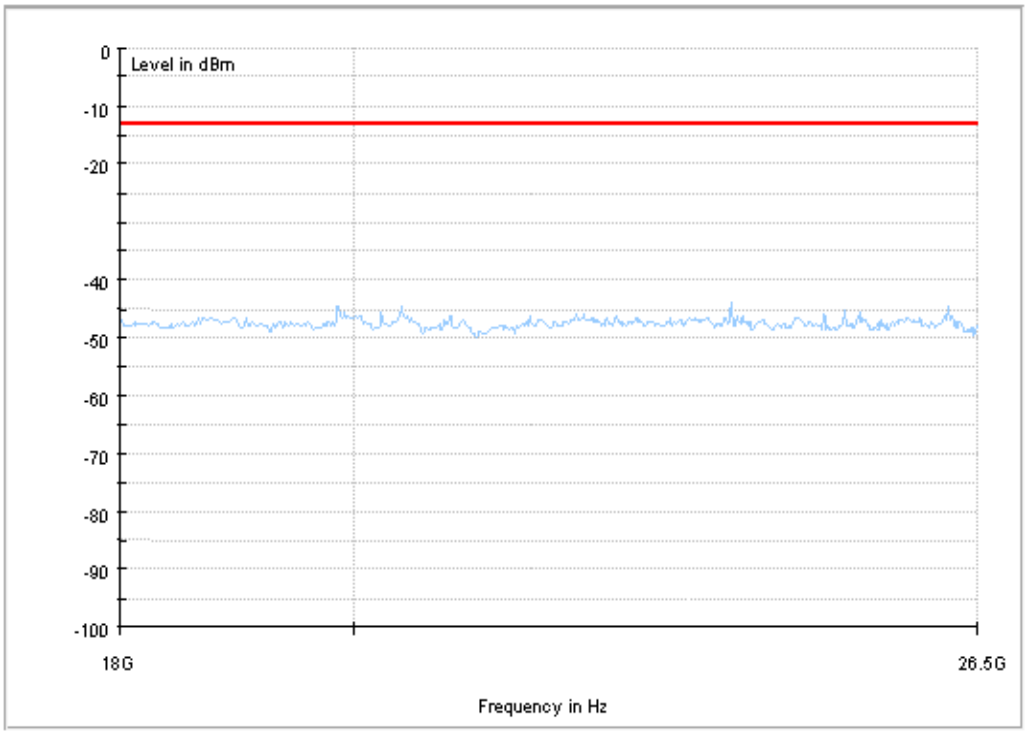

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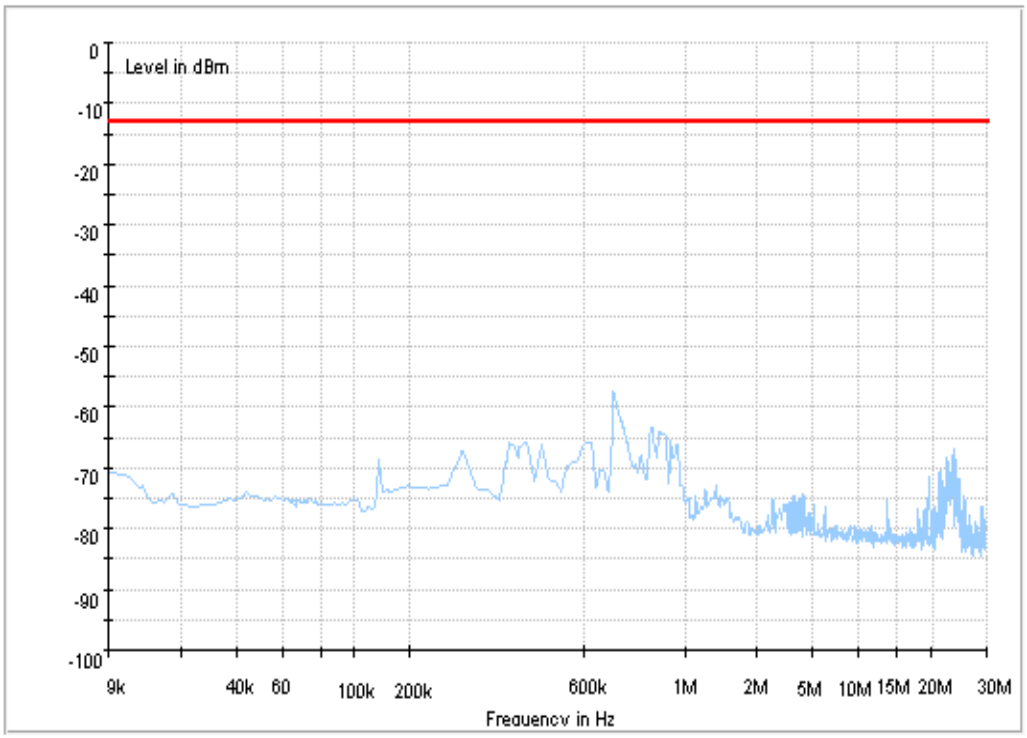
7.2 For UMTS

7.2.1 Test Band = WCDMA850

7.2.1.1 Test Mode = UMTS/TM1



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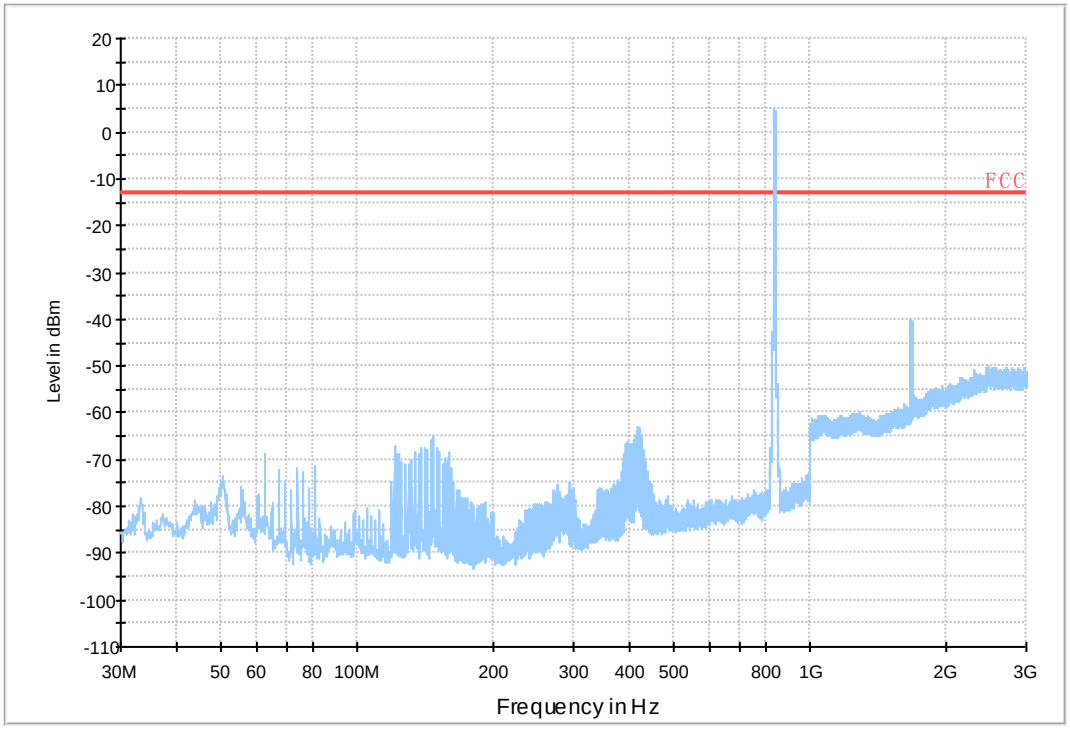

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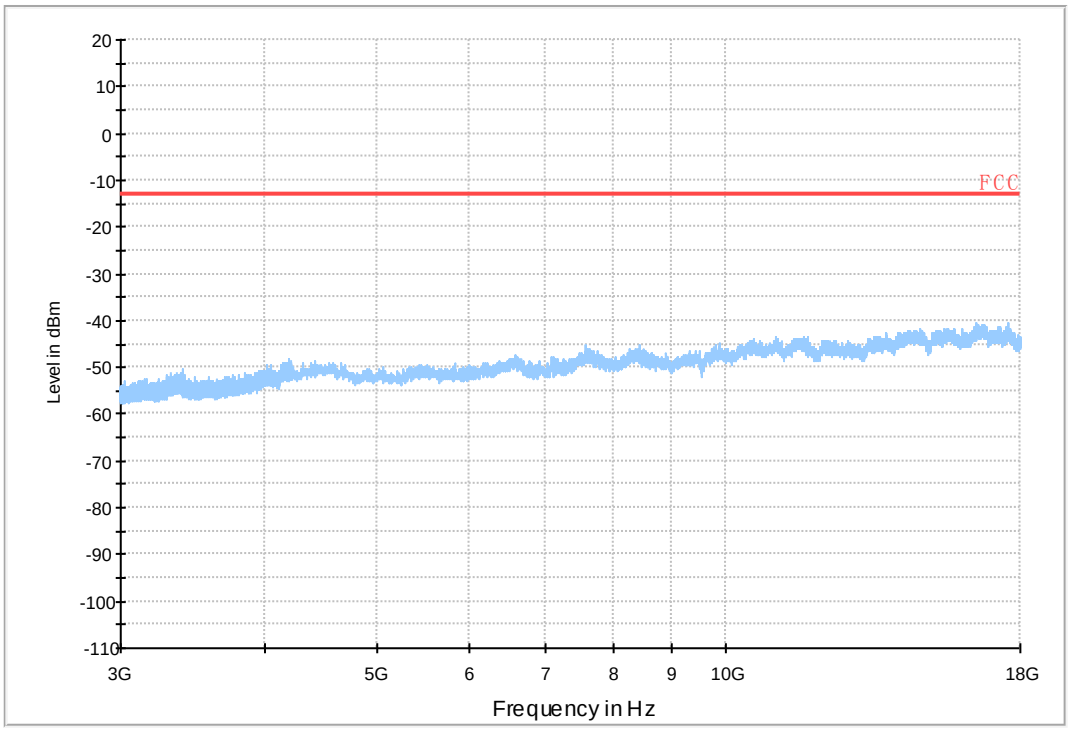

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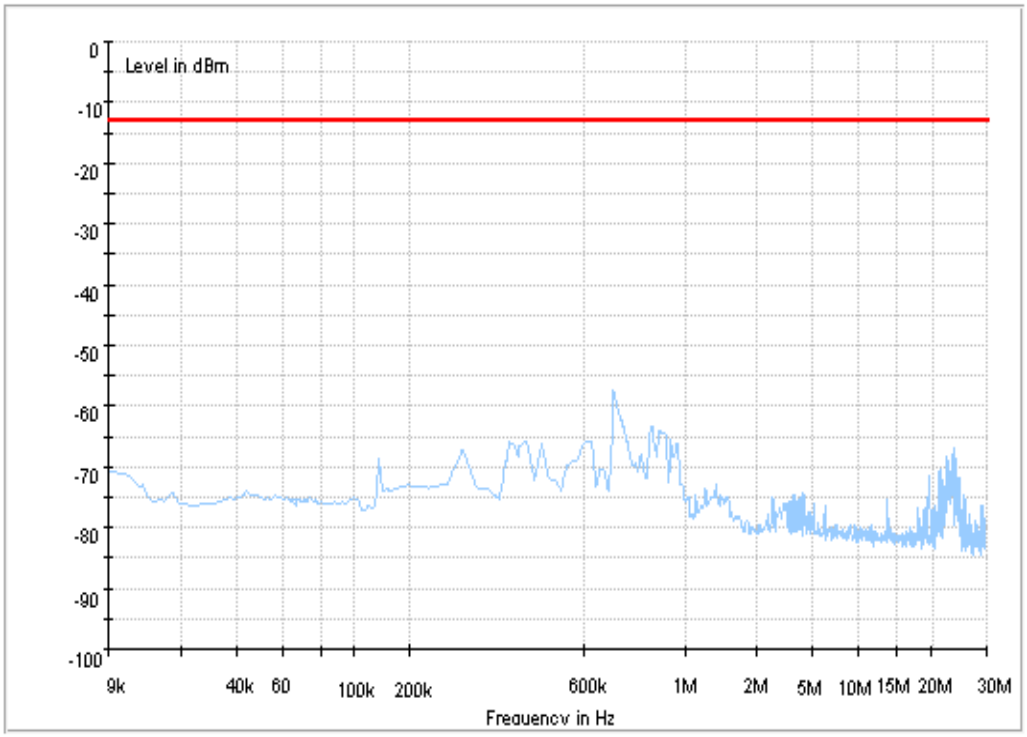
7.2.2 Test Band = WCDMA1900

7.2.2.1 Test Mode = UMTS/TM1



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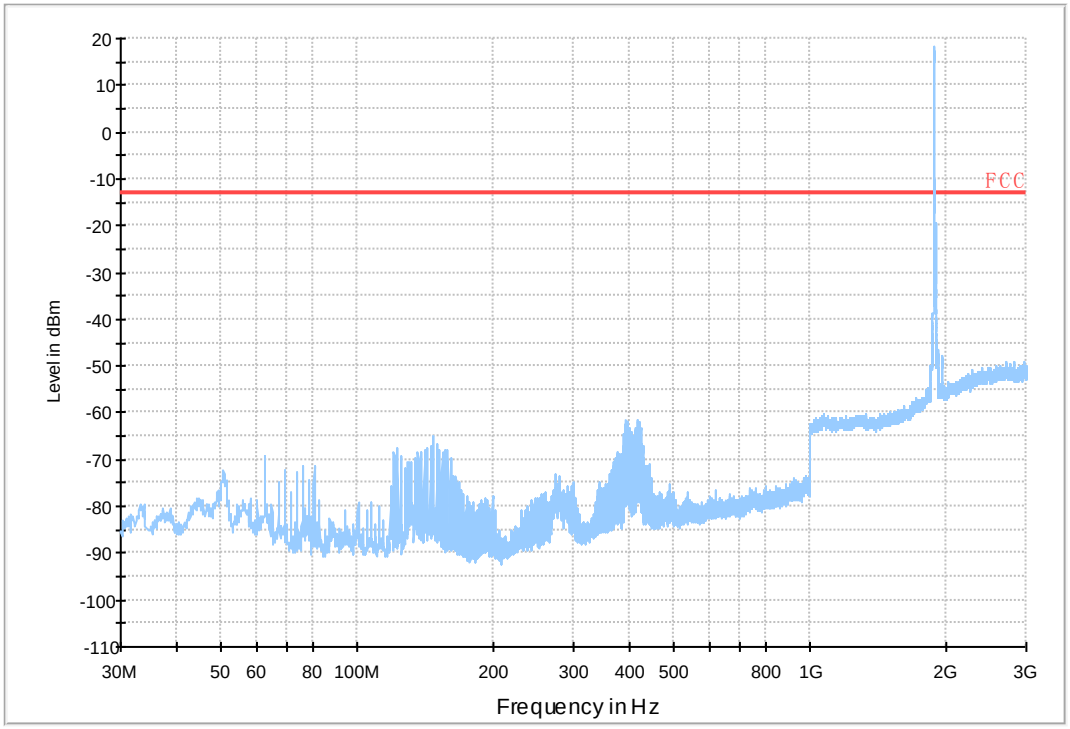

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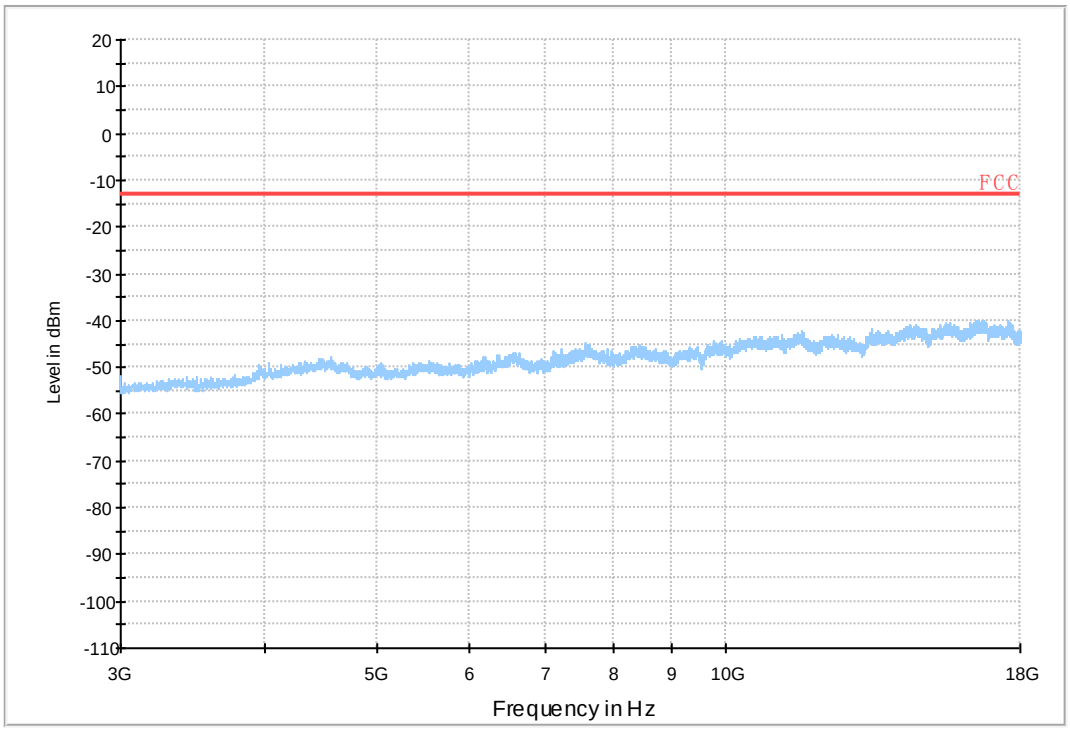

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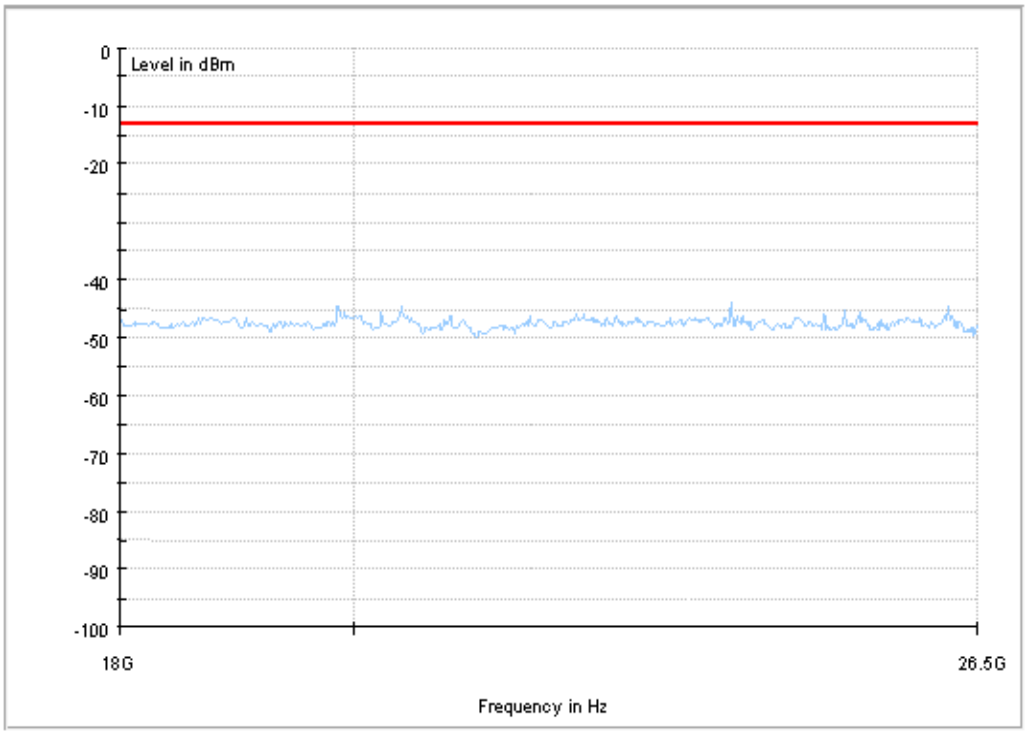

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8Appendix_H: Frequency Stability

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]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-37.84	-0.04591	PASS
				VN	-31.12	-0.03776	PASS
				VH	-30.15	-0.03658	PASS
		MCH	TN	VL	-28.15	-0.03365	PASS
				VN	-11.11	-0.01328	PASS
				VH	-16.27	-0.01945	PASS
		HCH	TN	VL	-14.40	-0.01697	PASS
				VN	-16.34	-0.01925	PASS
				VH	-27.18	-0.03202	PASS
	GSM/TM2	LCH	TN	VL	4.23	0.00513	PASS
				VN	6.78	0.00823	PASS
				VH	9.43	0.01144	PASS
		MCH	TN	VL	9.72	0.01162	PASS
				VN	9.62	0.0115	PASS
				VH	12.33	0.01474	PASS
		HCH	TN	VL	5.78	0.00681	PASS
				VN	6.30	0.00742	PASS
				VH	3.26	0.00384	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-5.68	-0.00307	PASS
				VN	1.23	0.00066	PASS
				VH	0.84	0.00045	PASS
		MCH	TN	VL	18.53	0.00986	PASS
				VN	20.73	0.01103	PASS
				VH	20.21	0.01075	PASS
		HCH	TN	VL	19.31	0.01011	PASS
				VN	33.64	0.01761	PASS
				VH	22.41	0.01173	PASS
	GSM/TM2	LCH	TN	VL	22.02	0.0119	PASS
				VN	24.70	0.01335	PASS
				VH	20.73	0.0112	PASS
		MCH	TN	VL	51.50	0.02739	PASS
				VN	54.98	0.02924	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VH	62.09	0.03303	PASS
		HCH	TN	VL	45.33	0.02374	PASS
				VN	60.92	0.0319	PASS
				VH	67.15	0.03516	PASS

8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	-20.79	-0.02522	PASS
				-20	-4.52	-0.00548	PASS
				-10	-1.55	-0.00188	PASS
				0	-7.04	-0.00854	PASS
				10	-9.17	-0.01113	PASS
				20	-15.76	-0.01912	PASS
				30	-16.85	-0.02044	PASS
				40	-18.92	-0.02296	PASS
				50	-15.37	-0.01865	PASS
		MCH	VN	-30	-17.63	-0.02107	PASS
				-20	-18.66	-0.0223	PASS
				-10	-10.46	-0.0125	PASS
				0	-9.69	-0.01158	PASS
				10	-13.69	-0.01636	PASS
				20	-20.02	-0.02393	PASS
				30	-6.13	-0.00733	PASS
				40	-0.26	-0.00031	PASS
				50	-7.43	-0.00888	PASS
		HCH	VN	-30	-11.56	-0.01362	PASS
				-20	-7.55	-0.00889	PASS
				-10	-10.14	-0.01195	PASS
				0	-3.87	-0.00456	PASS
				10	-18.85	-0.02221	PASS
				20	-21.76	-0.02564	PASS
				30	-21.11	-0.02487	PASS
				40	-24.21	-0.02852	PASS
				50	-24.41	-0.02876	PASS
	GSM/TM2	LCH	VN	-30	4.29	0.00521	PASS
				-20	6.10	0.0074	PASS
				-10	6.91	0.00838	PASS
				0	3.78	0.00459	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				10	3.42	0.00415	PASS
				20	0.00	0	PASS
				30	-3.68	-0.00446	PASS
				40	-2.74	-0.00332	PASS
				50	-5.13	-0.00622	PASS
		MCH	VN	-30	-4.10	-0.0049	PASS
				-20	-2.68	-0.0032	PASS
				-10	-0.03	-0.00004	PASS
				0	0.97	0.00116	PASS
				10	-3.39	-0.00405	PASS
				20	-4.10	-0.0049	PASS
				30	-4.49	-0.00537	PASS
				40	-3.39	-0.00405	PASS
				50	-5.97	-0.00714	PASS
		HCH	VN	-30	-8.56	-0.01008	PASS
				-20	-11.59	-0.01365	PASS
				-10	-12.01	-0.01415	PASS
				0	-7.36	-0.00867	PASS
				10	-7.04	-0.00829	PASS
				20	-10.27	-0.0121	PASS
				30	-12.04	-0.01418	PASS
				40	-6.26	-0.00738	PASS
				50	-2.20	-0.00259	PASS
GSM1900	GSM/TM1	LCH	VN	-30	13.88	0.0075	PASS
				-20	13.17	0.00712	PASS
				-10	12.40	0.0067	PASS
				0	10.27	0.00555	PASS
				10	4.65	0.00251	PASS
				20	12.40	0.0067	PASS
				30	7.23	0.00391	PASS
				40	1.29	0.0007	PASS
				50	3.94	0.00213	PASS
		MCH	VN	-30	27.18	0.01446	PASS
				-20	13.56	0.00721	PASS
				-10	20.02	0.01065	PASS
				0	17.24	0.00917	PASS
				10	14.79	0.00787	PASS
				20	21.57	0.01147	PASS
				30	21.24	0.0113	PASS
				40	16.72	0.00889	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				50	10.46	0.00556	PASS
		HCH	VN	-30	20.99	0.01099	PASS
				-20	18.79	0.00984	PASS
				-10	33.84	0.01772	PASS
				0	27.06	0.01417	PASS
				10	22.47	0.01177	PASS
				20	24.60	0.01288	PASS
				30	24.54	0.01285	PASS
				40	26.93	0.0141	PASS
				50	26.35	0.0138	PASS
	GSM/TM2	LCH	VN	-30	49.33	0.02666	PASS
				-20	39.10	0.02113	PASS
				-10	46.04	0.02488	PASS
				0	34.19	0.01848	PASS
				10	42.71	0.02308	PASS
				20	40.87	0.02209	PASS
				30	41.81	0.0226	PASS
				40	36.81	0.0199	PASS
				50	32.74	0.0177	PASS
		MCH	VN	-30	36.48	0.0194	PASS
				-20	31.61	0.01681	PASS
				-10	34.77	0.01849	PASS
				0	40.13	0.02135	PASS
				10	27.93	0.01486	PASS
				20	24.67	0.01312	PASS
				30	26.28	0.01398	PASS
				40	28.28	0.01504	PASS
				50	27.22	0.01448	PASS
		HCH	VN	-30	41.78	0.02188	PASS
				-20	43.49	0.02277	PASS
				-10	56.15	0.0294	PASS
				0	39.07	0.02046	PASS
				10	44.78	0.02345	PASS
				20	45.46	0.0238	PASS
				30	55.85	0.02924	PASS
				40	66.09	0.03461	PASS
				50	59.73	0.03128	PASS

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8.2 For UMTS

8.2.1Frequency 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	25.41	0.03075	PASS
				VN	-13.00	-0.01573	PASS
				VH	-17.46	-0.02113	PASS
		MCH	TN	VL	-3.86	-0.00462	PASS
				VN	-3.54	-0.00423	PASS
				VH	2.59	0.0031	PASS
		HCH	TN	VL	4.27	0.00504	PASS
				VN	-9.38	-0.01108	PASS
				VH	-9.12	-0.01077	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	15.85	0.00856	PASS
				VN	-5.13	-0.00277	PASS
				VH	11.29	0.00609	PASS
		MCH	TN	VL	5.91	0.00314	PASS
				VN	-4.00	-0.00213	PASS
				VH	-5.22	-0.00278	PASS
		HCH	TN	VL	-17.00	-0.00891	PASS
				VN	-18.71	-0.00981	PASS
				VH	-37.45	-0.01963	PASS

8.2.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	1.05	0.00127	PASS
				-20	13.31	0.01611	PASS
				-10	8.10	0.0098	PASS
				0	2.78	0.00336	PASS
				10	-9.77	-0.01182	PASS
				20	-6.90	-0.00835	PASS
				30	4.26	0.00515	PASS
				40	0.85	0.00103	PASS
				50	3.92	0.00474	PASS
		MCH	VN	-30	-8.87	-0.0106	PASS
				-20	-7.10	-0.00849	PASS
				-10	-2.72	-0.00325	PASS
				0	-3.23	-0.00386	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				10	3.51	0.0042	PASS
				20	1.31	0.00157	PASS
				30	11.02	0.01318	PASS
				40	8.58	0.01026	PASS
				50	8.21	0.00982	PASS
		HCH	VN	-30	-15.53	-0.01834	PASS
				-20	-7.23	-0.00854	PASS
				-10	-10.97	-0.01296	PASS
				0	-1.53	-0.00181	PASS
				10	8.15	0.00963	PASS
				20	3.49	0.00412	PASS
				30	9.55	0.01128	PASS
				40	18.95	0.02238	PASS
				50	17.29	0.02042	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	1.95	0.00105	PASS
				-20	22.86	0.01234	PASS
				-10	14.11	0.00762	PASS
				0	12.15	0.00656	PASS
				10	25.88	0.01397	PASS
				20	-12.57	-0.00679	PASS
				30	2.23	0.0012	PASS
				40	10.51	0.00567	PASS
				50	0.37	0.0002	PASS
		MCH	VN	-30	-2.85	-0.00152	PASS
				-20	-14.97	-0.00796	PASS
				-10	-13.50	-0.00718	PASS
				0	-17.43	-0.00927	PASS
				10	4.24	0.00226	PASS
				20	-3.23	-0.00172	PASS
				30	-20.36	-0.01083	PASS
				40	-14.01	-0.00745	PASS
				50	7.32	0.00389	PASS
		HCH	VN	-30	-28.82	-0.01511	PASS
				-20	-4.94	-0.00259	PASS
				-10	-11.80	-0.00619	PASS
				0	-10.19	-0.00534	PASS
				10	-21.07	-0.01105	PASS
				20	-7.31	-0.00383	PASS
				30	-28.79	-0.01509	PASS
				40	-7.26	-0.00381	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				50	-4.44	-0.00233	PASS

END

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