683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080
Tel: +82-31-321-2664 Fax: +82-31-321-1664
http://www.digitalemc.com

CERTIFICATE OF COMPLIANCE
FCC Part 22 & 24 Certification

Dates of Tests: April 23 ~ 30, 2007
Test Report S/N:DR50110705A
Test Site : DIGITAL EMC CO., LTD.

FCC ID. **NPQI170**

APPLICANT **Telian Corporation**

Classification	:	**Licensed Portable Transmitter Held to Ear (PCE)**
FCC Rule Part(s)	:	**§22(H), §24(E), §2**
EUT Type	:	**GSM850 / PCS1900 Dual Band GPRS Terminal with Bluetooth Equipment**
Model name	:	**i170**
Add model name	:	**MGQ3180C**
Brand name	:	**Very Kool**
Serial number	:	**Identical prototype**
TX Frequency Range	:	**824.2 ~ 848.8 MHz (GSM850) / 1850.2 ~ 1909.8 MHz (PCS1900)**
RX Frequency Range	:	**869.2 ~ 893.8 MHz (GSM850) / 1930.2 ~ 1989.8 MHz (PCS1900)**
Max. RF Output Power	:	**0.456 W ERP GSM850**
	:	**0.981 W EIRP PCS1900**
Max. SAR Measurement	:	**0.558 mW/g GSM850 Head SAR // 0.515 mW/g GSM850 GPRS Body SAR**
	:	**0.839 mW/g PCS1900 Head SAR // 0.833 mW/g PCS1900 GPRS Body SAR**
Date of Issue	:	**May 7, 2007**

TABLE OF CONTENTS

MEASUREMENT REPORT

1. Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

§2.1033 General Information

Applicant: Telian Corporation

Address: 5th FL. Namjeun Bldg, 53-3 Haan-Dong, Kwangmyung-Si, Kyunggi-Do, Korea

Attention: Wayne Hwang **(Senior Manager)**

- FCC ID: **NPQI170**
- Quantity: The pre-product
- Tx Freq. Range: 824.2 ~ 848.8 MHz (GSM850) / 1850.2 ~ 1909.8 MHz (PCS1900)
- Rx Freq. Range: 869.2 ~ 893.8 MHz (GSM850) / 1930.2 ~ 1989.8 MHz (PCS1900)
- Max. Power Rating: 0.456W ERP GSM850
  0.981W EIRP PCS1900
- FCC Classification(s): Licensed Portable Transmitter Held to Ear (PCE)
- Equipment (EUT) Type: GSM850 / PCS1900 Dual Band Terminal Equipment
- Modulation(s): GMSK
- Frequency Tolerance: ± 0.00025 % (2.5ppm)
- FCC Rule Part(s): §22(H), §24(E), §2
- Dates of Tests: April 23 ~ 30, 2007
- Place of Tests: DIGITAL EMC
- Test Report S/N: DR50110705A

2. General Information

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.
Address : 683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080
http://www.digitalemc.com E-mail : demc@unitel.co.kr
Tel: +82-31-321-2664 Fax: +82-31-321-1664

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competents of calibration and testing laboratory".
This laboratory is accredited by NVLAP for NVLAP Lab. Code : 200559-0.

Test operator: engineer

Data	Name	Signature
May 7, 2007	Won-Jung LEE	

Report Reviewed By: manager

Data	Name	Signature
May 7, 2007	Harvey Sung	

Ordering party:

Company name	:	Telian Corporation
Address	:	5th FL, Namjeun Bldg , 53-3 , Haan-Dong,
Zipcode	:	423-060
City/town	:	Kwangmyung-Si City, Kyonggi do
Country	:	KOREA
Date of order	:	April 5, 2007

3. Test Report

3.1 Summary of test

FCC Part Section(s)	Parameter	Status (note 1)
22.913(a) / 24.232(b), 2.1046	Power Output	C
22.917 / 24.238, 2.1049(h)(i)	Occupied Bandwidth	C
22.917(b) / 24.238(b)	Emission Bandwidth	C
22.917 / 24.238 2.1051	Emission Limits Transmitter	C
2.1053 (a)	Field Strength of Spurious Radiation	C
2.1055	Frequency Stability	C
Note 1: C= Complies NC=Not Complies NT=Not Tested NA=Not Applicable		

The sample was tested according to the following specification:

FCC Parts §22(H), §24(E), §2; ANSI C-63.4-2003

3.2 Power Output

FCC ID	:	**NPQI170**
Specification	:	47 CFR 2.1046 (a)
Tested Frequency	:	824.2MHz, 836.6MHz and 848.8MHz for GSM850 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

Measurement Procedure:

- During the process of testing, the EUT was controlled via Radio Communication tester to ensure max. Power transmission and proper modulation.
- Power output was measured at the RF output terminals when the transmitter is adjusted in accordance with Communication tester (or the tune-up procedure).

Measurement Data:

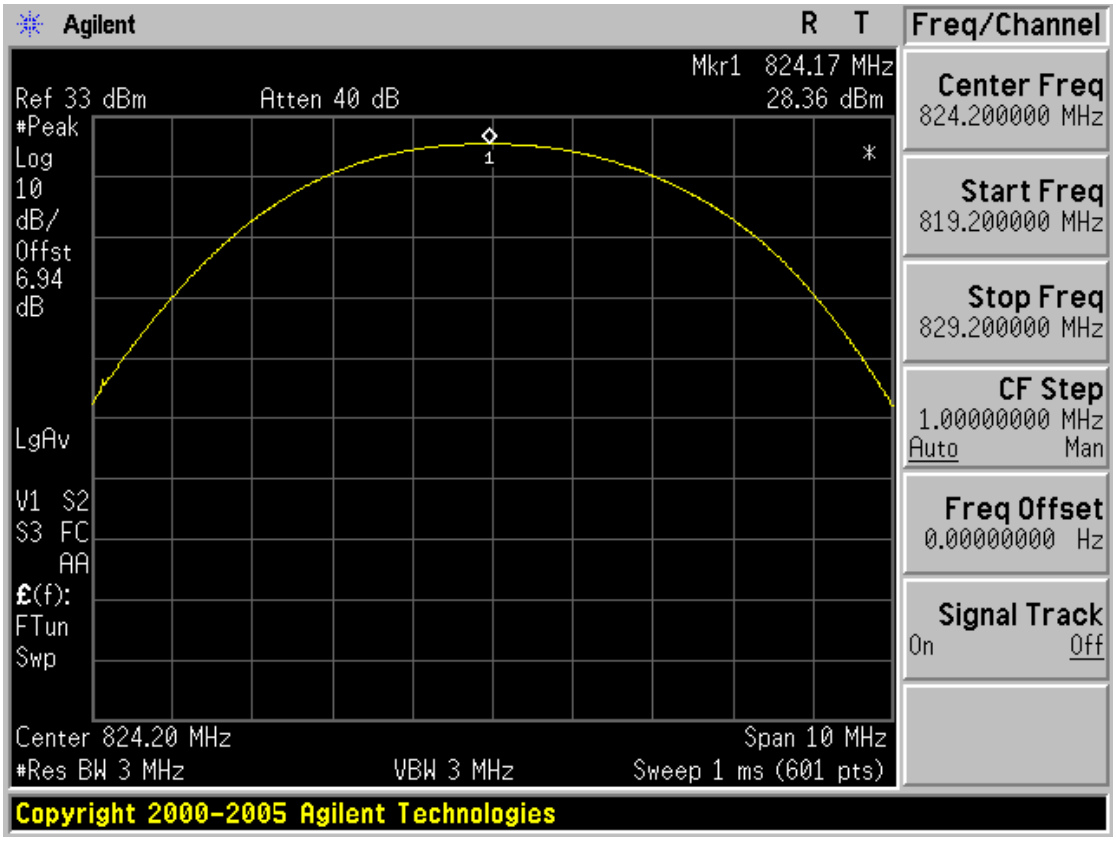
GSM850

Channel	Frequency (MHz)	TEST CONDITIONS Power Step: 5
		(dBm)
128	824.2	**28.36**
190	836.6	**28.32**
251	848.8	**28.20**

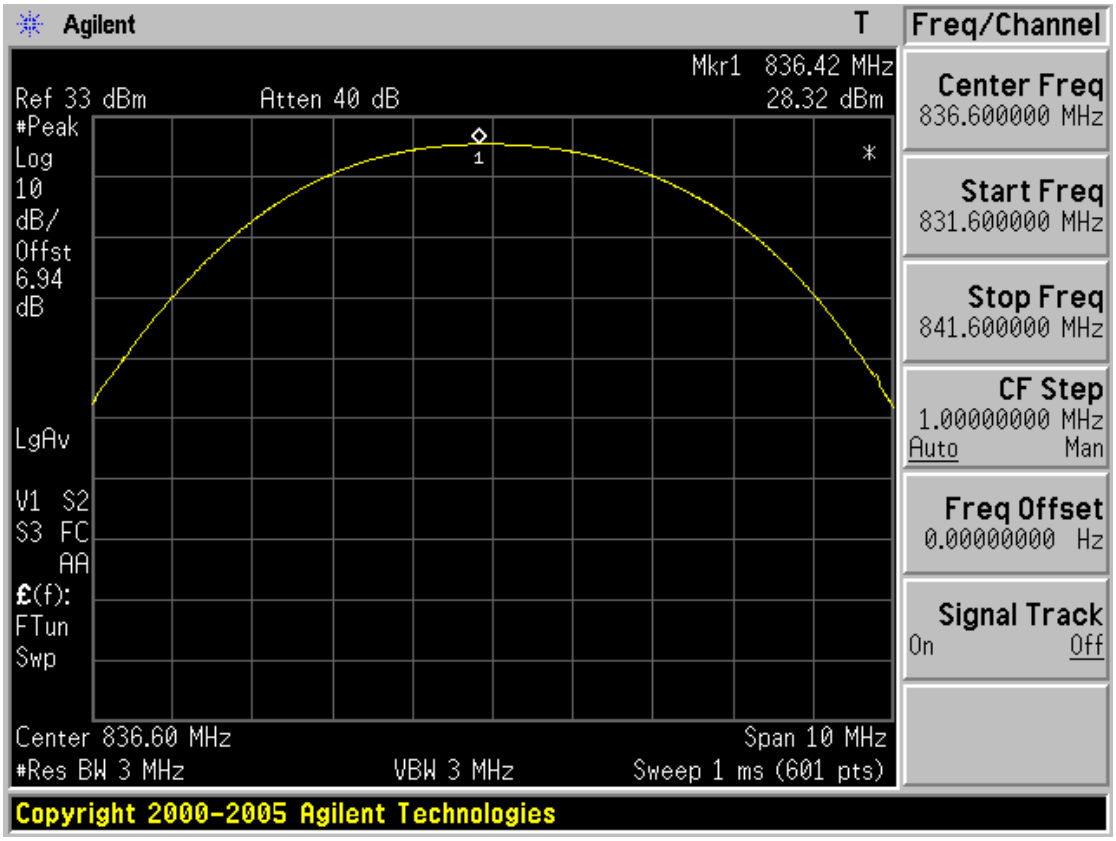
PCS1900

Channel	Frequency (MHz)	TEST CONDITIONS Power Step: 0
		(dBm)
512	1850.2	**29.22**
661	1880.0	**29.16**
810	1909.8	**29.15**

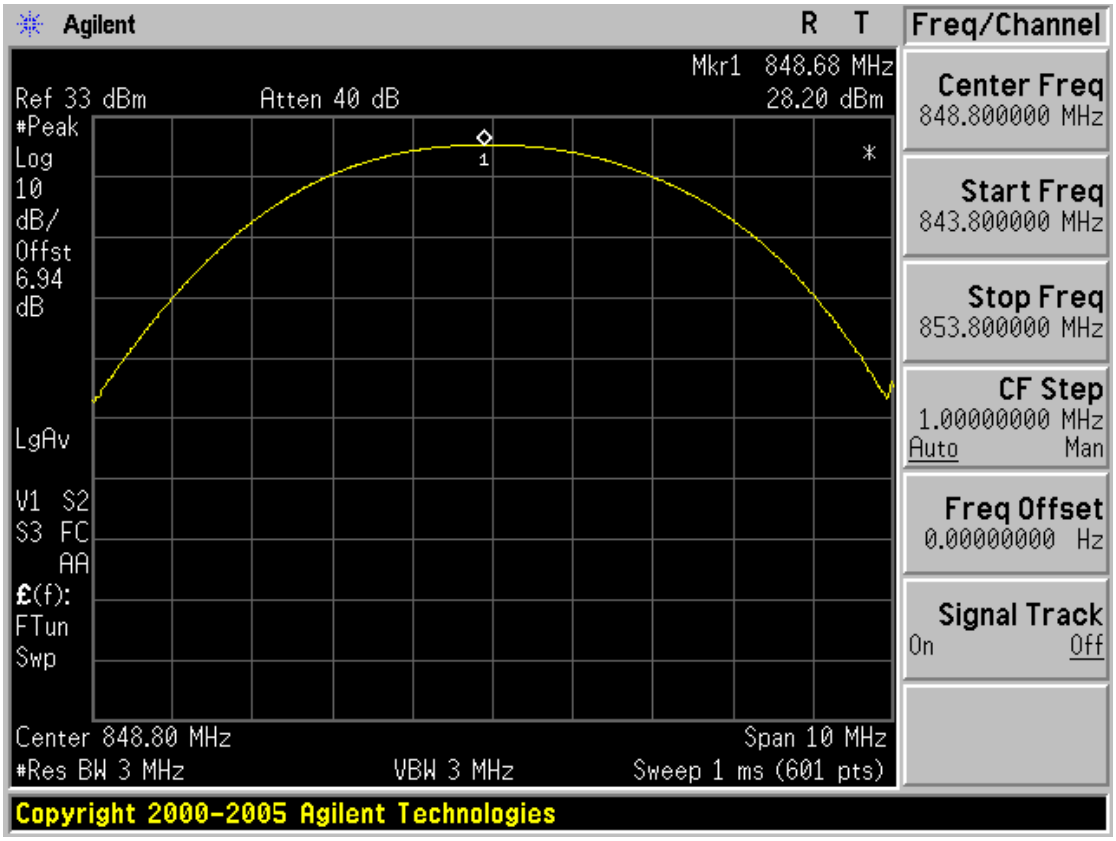
POWER OUT. GSM850 Ch.128



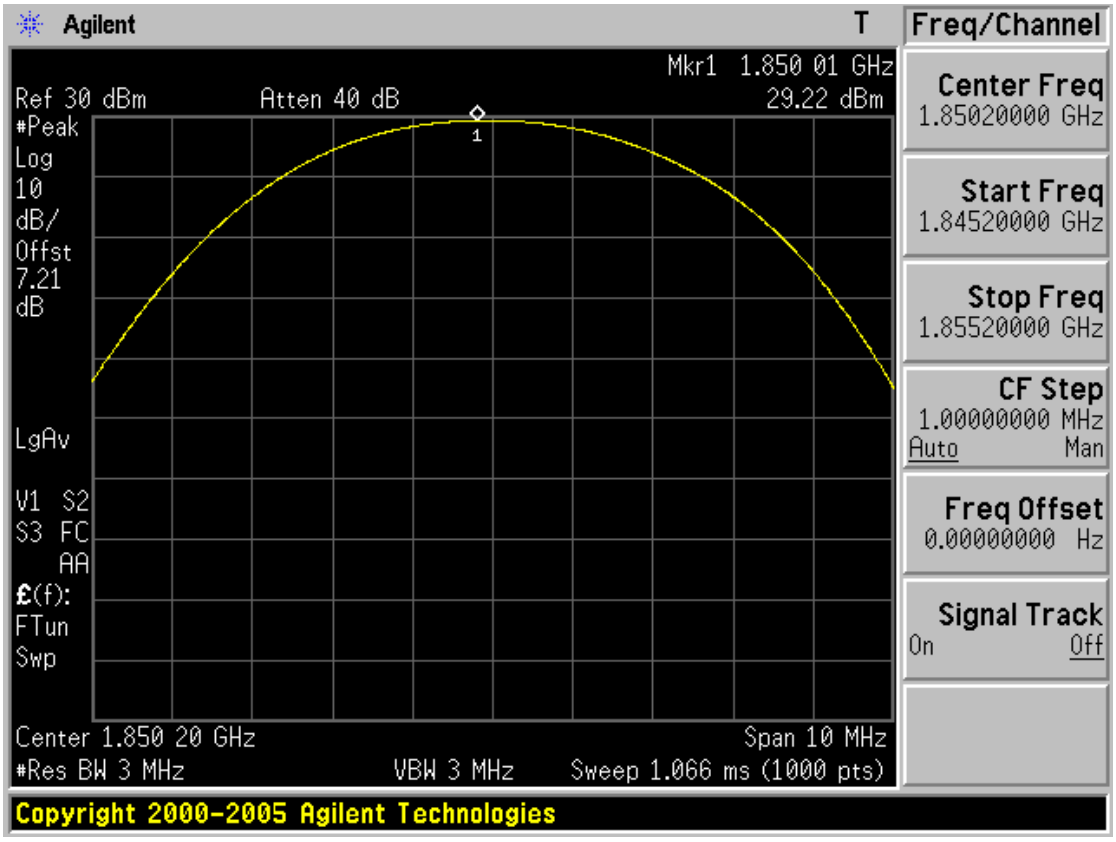
POWER OUT. GSM850 Ch.190



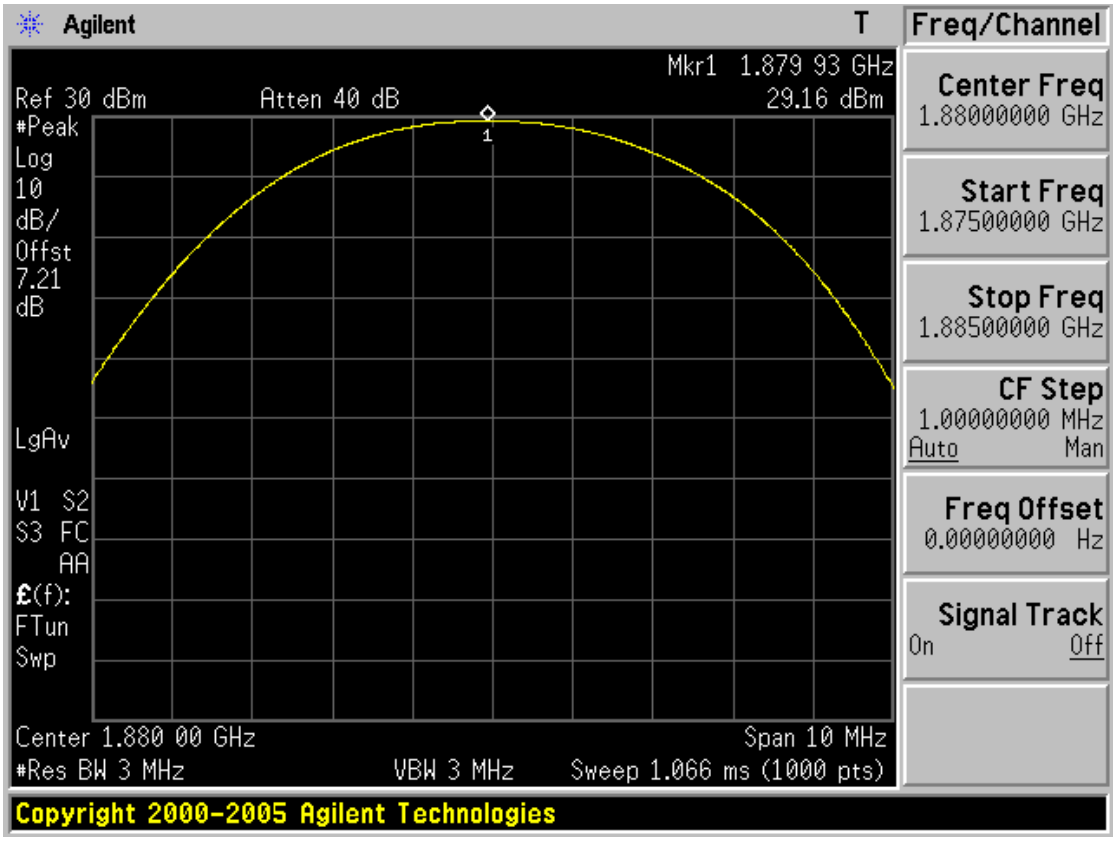
POWER OUT. GSM850 Ch.251



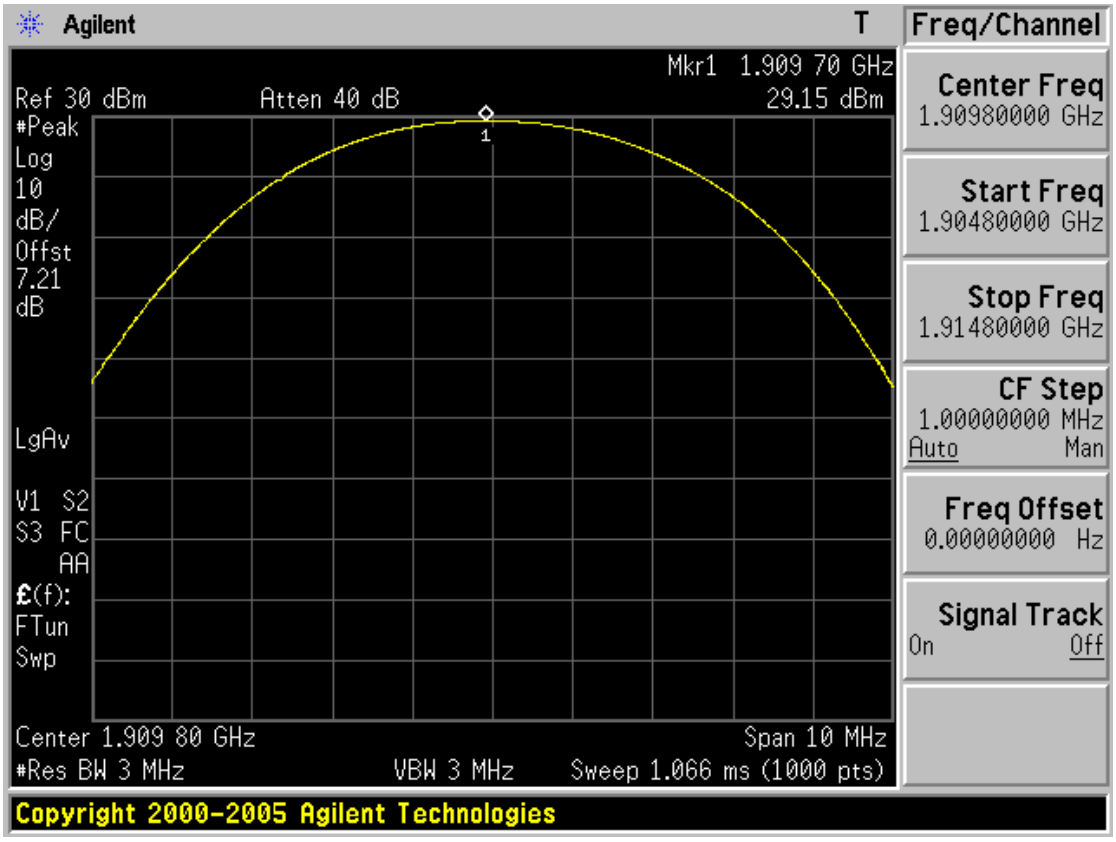
POWER OUT. PCS1900 Ch.512



POWER OUT. PCS1900 Ch.661



POWER OUT. PCS1900 Ch.810



ERP (GSM850)

FCC ID	:	**NPQI170**
Specification	:	47 CFR 22.913(a)
Tested Frequency	:	824.2MHz, 836.6MHz and 848.8MHz for GSM850
RBW=VBW	:	3MHz

Measurement Procedure:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-C 2004

The EUT was placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

Measurement Data:

Channel	Frequency (MHz)	TEST CONDITIONS Power Step: 5				
		Ref. level (dBm)	Pol. (H/V)	ERP (dBm)	ERP (W)	Power Supply
128	**824.2**	**-10.88**	**H**	**26.59**	**0.456**	**Battery**
190	836.6	-10.80	H	26.48	0.445	Battery
251	848.8	-10.96	H	26.32	0.429	Battery

EIRP (PCS1900)

FCC ID	:	**NPQI170**
Specification	:	47 CFR 24.232(b)
Tested Frequency	:	1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900
RBW=VBW	:	3MHz

Measurement Procedure:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-C 2004

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

Measurement Data:

Channel	Frequency (MHz)	TEST CONDITIONS Power Step: 0					
		Ref. level (dBm)	Pol. (H/V)	ANT GAIN	EIRP (dBm)	EIRP (W)	Battery
512	1850.2	-16.44	H	8.42	28.70	0.741	Battery
661	**1880.0**	**-14.36**	**H**	**8.50**	**29.92**	**0.981**	**Battery**
810	1909.8	-15.20	H	8.57	28.87	0.772	Battery

3.3 Occupied Bandwidth

FCC ID	:	**NPQI170**
Specification	:	47 CFR 2.1049 (h)(i)
Tested Frequency	:	824.2MHz, 836.6MHz and 848.8MHz for GSM850 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

Measurement Procedure:

- The 99% power bandwidth was measured with a calibrated spectrum analyzer.
- Spectrum analyzer plots are included on the following pages.

Measurement Data:

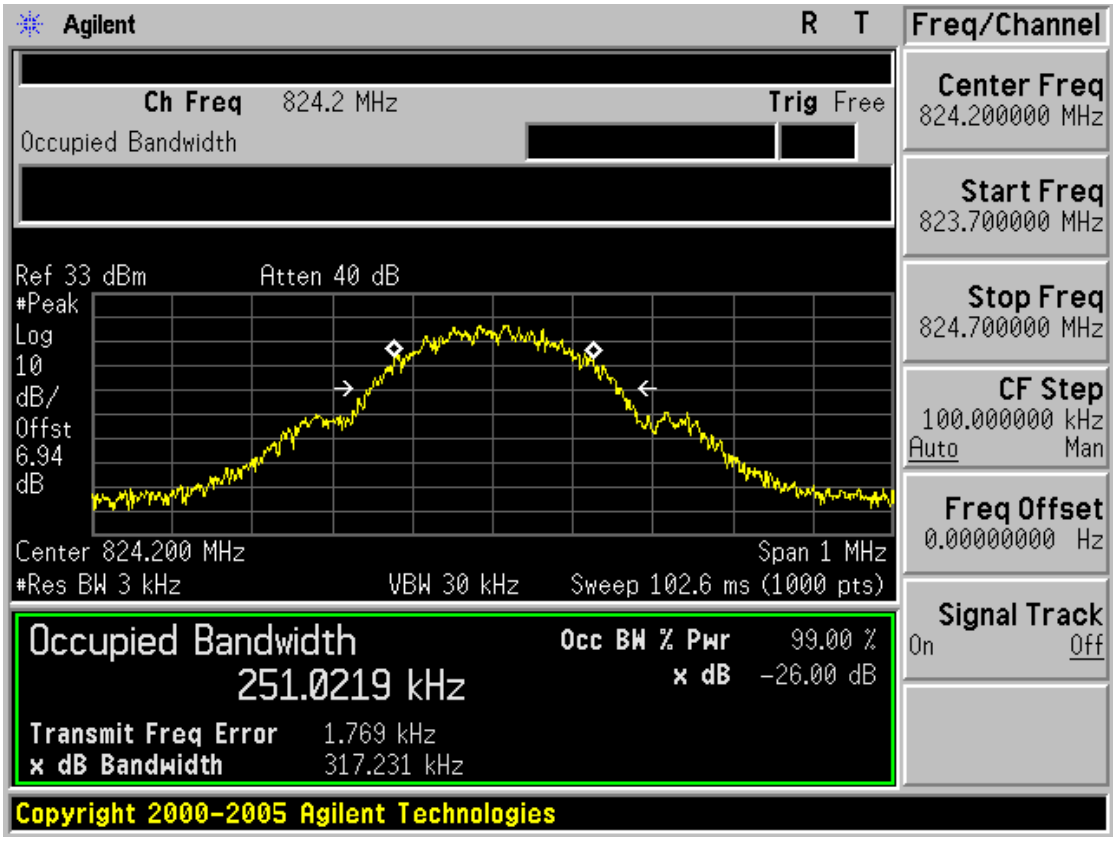
GSM850

Channel	Frequency (MHz)	99% Bandwidth (kHz)
128	824.2	**251.0219**
190	836.6	**250.4286**
251	848.8	**243.8853**

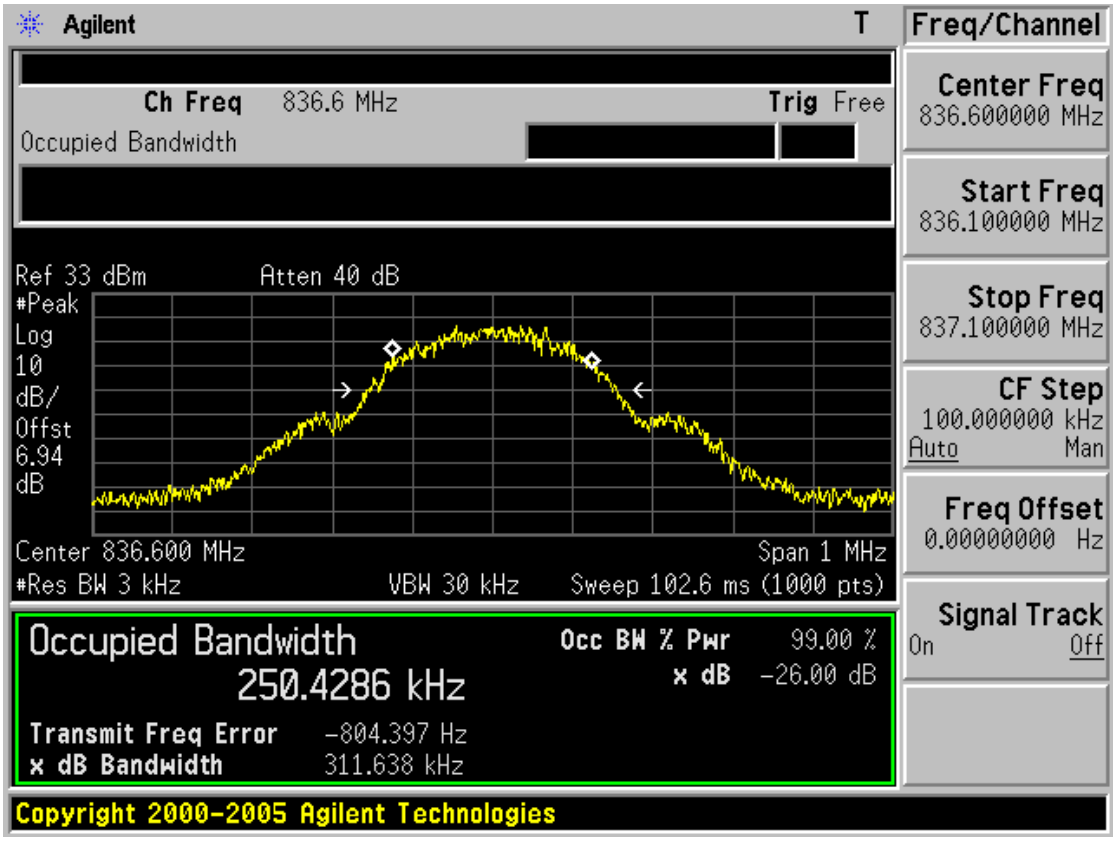
PCS1900

Channel	Frequency (MHz)	99% Bandwidth (kHz)
512	1850.2	**253.3586**
661	1880.0	**252.8298**
810	1909.8	**247.3988**

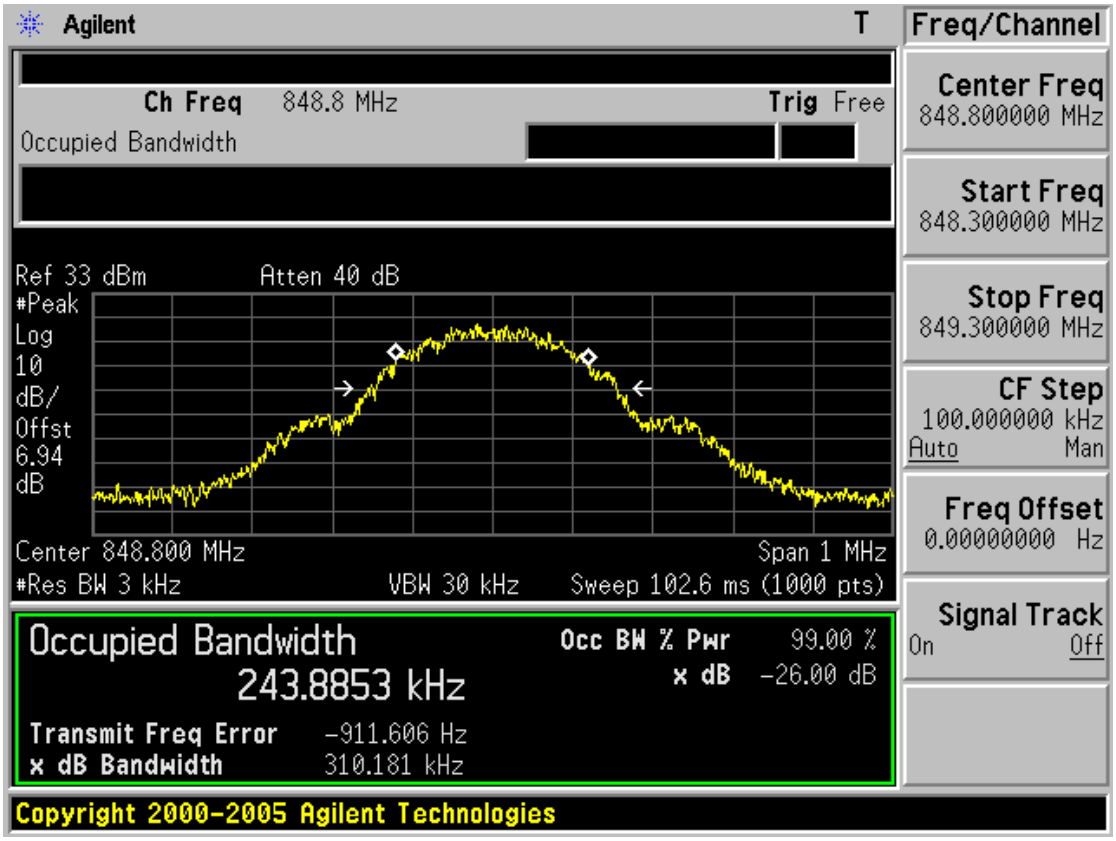
GSM850 **99 % Bandwidth Ch. 128**



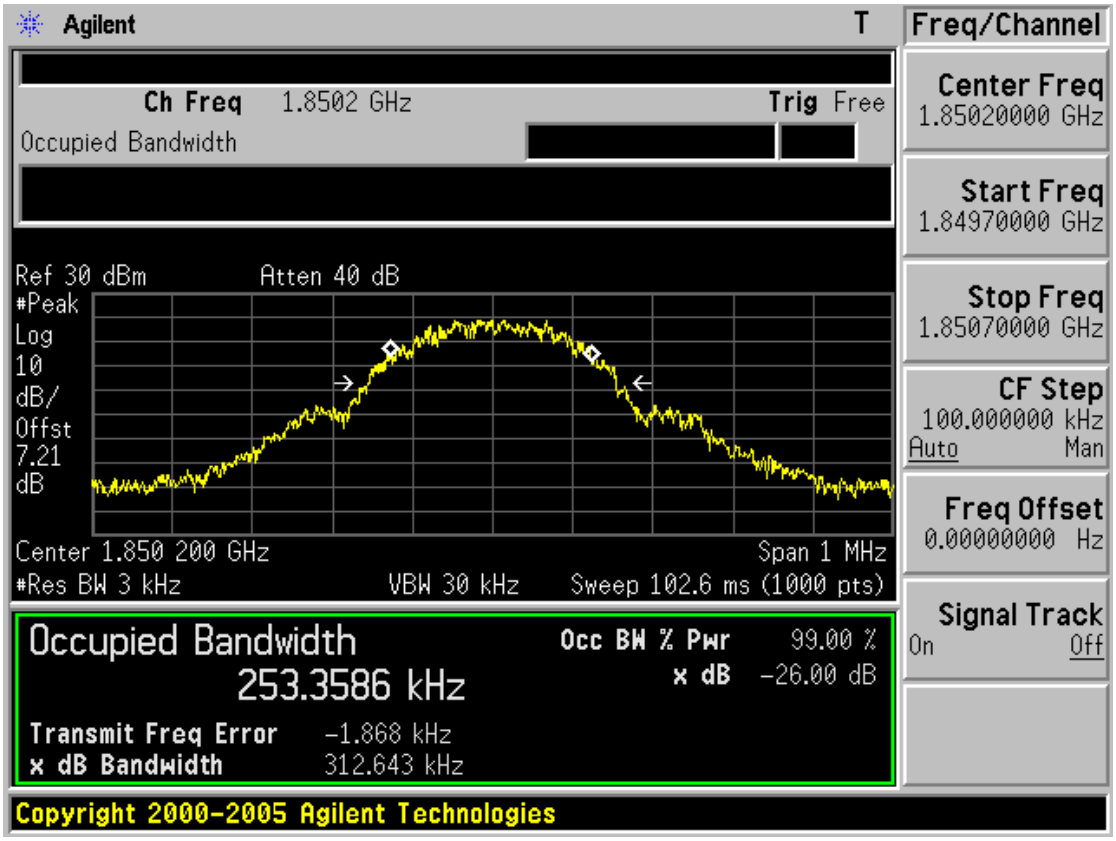
GSM850 **99 % Bandwidth Ch. 190**



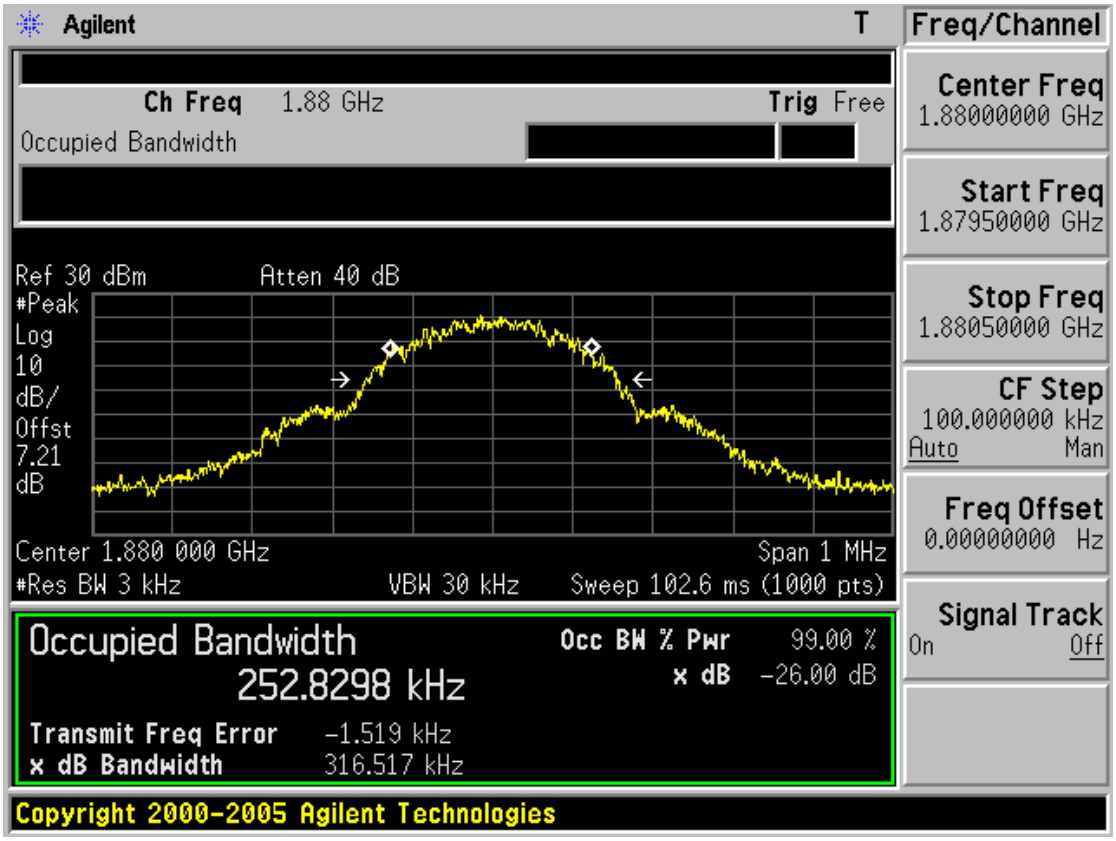
GSM850 **99 % Bandwidth Ch. 251**



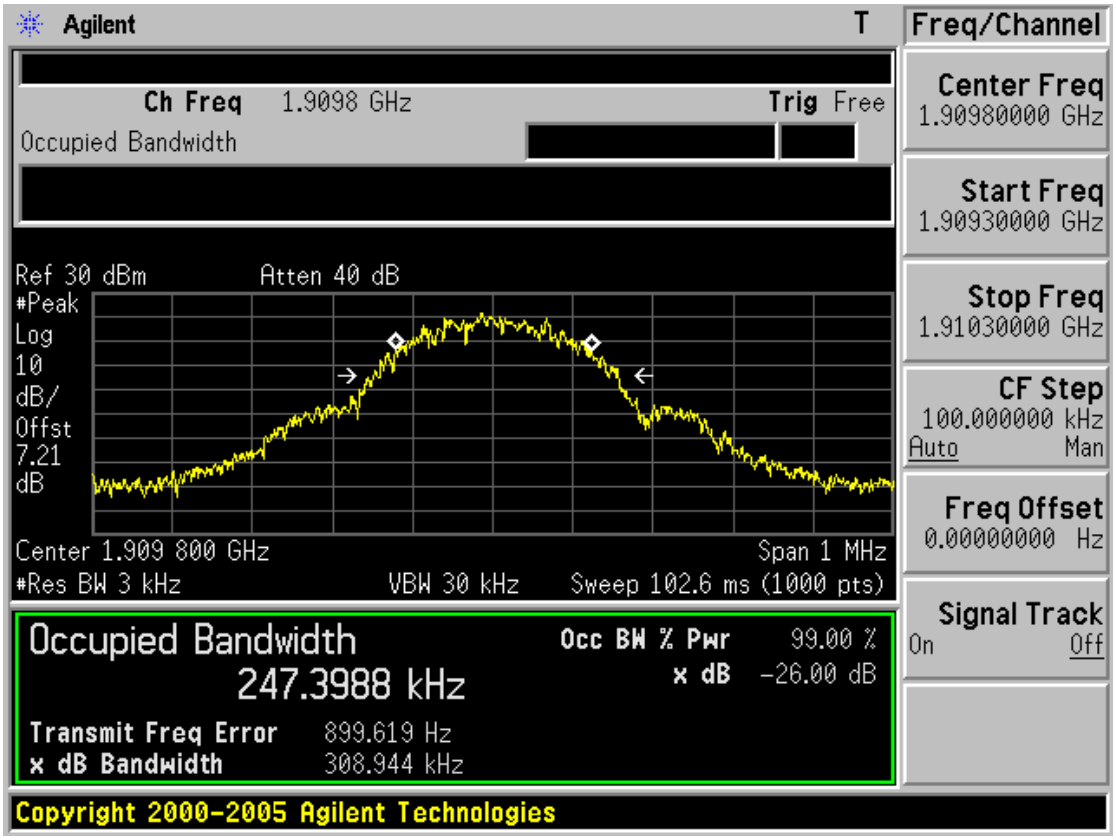
PCS1900 **99 % Bandwidth Ch. 512**



PCS1900 **99 % Bandwidth Ch. 661**



PCS1900 **99 % Bandwidth Ch. 810**



3.4 Occupied Bandwidth Emission Limit

FCC ID	:	**NPQI170**
Specification	:	47 CFR 24.238(b)
Tested Frequency	:	824.2MHz, 836.6MHz and 848.8MHz for GSM850 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

Measurement Procedure:

- (a) On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43+10log(P) dB.

  (b) Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1㎒ or greater. However, in the 1㎒ bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26dB below the transmitter power.

  (c) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.

- The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.
- Spectrum analyzer plots are included on the following pages.

Measurement Data:

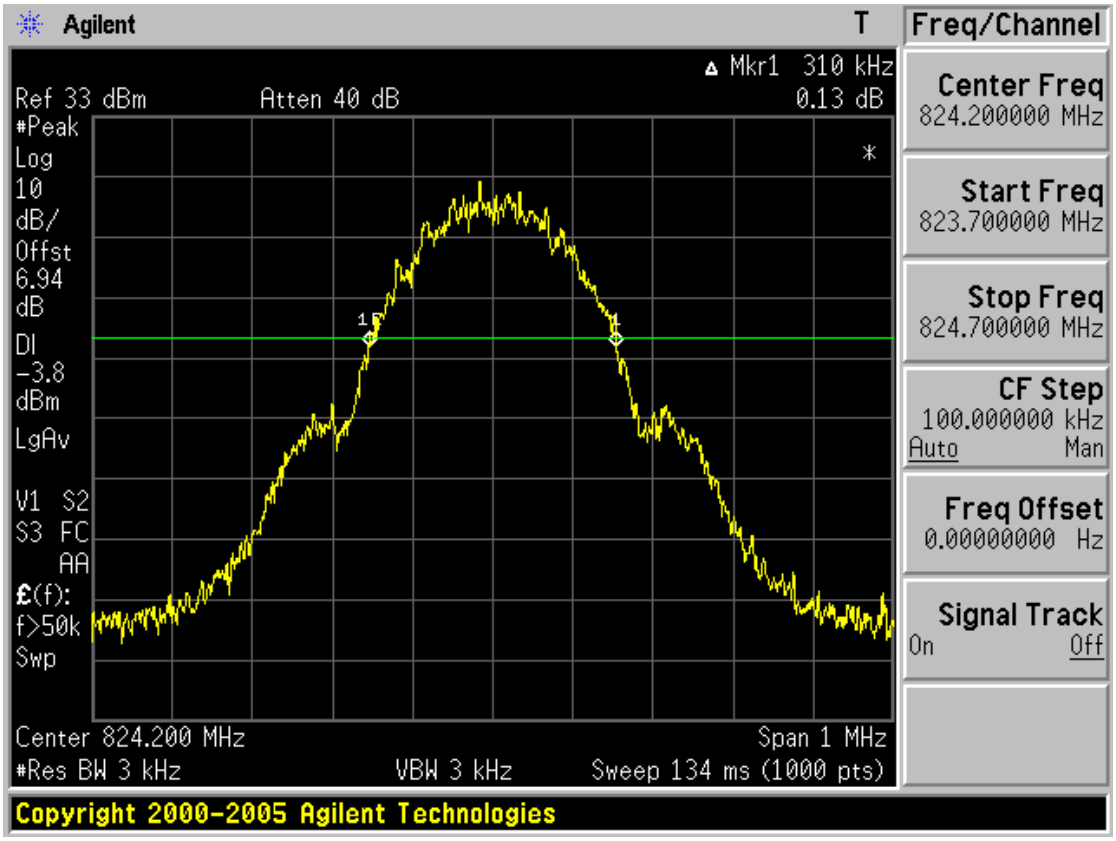
GSM850

Channel	Frequency (MHz)	-26dBc Bandwidth (kHz)
128	824.2	**310**
190	836.6	**312**
251	848.8	**311**

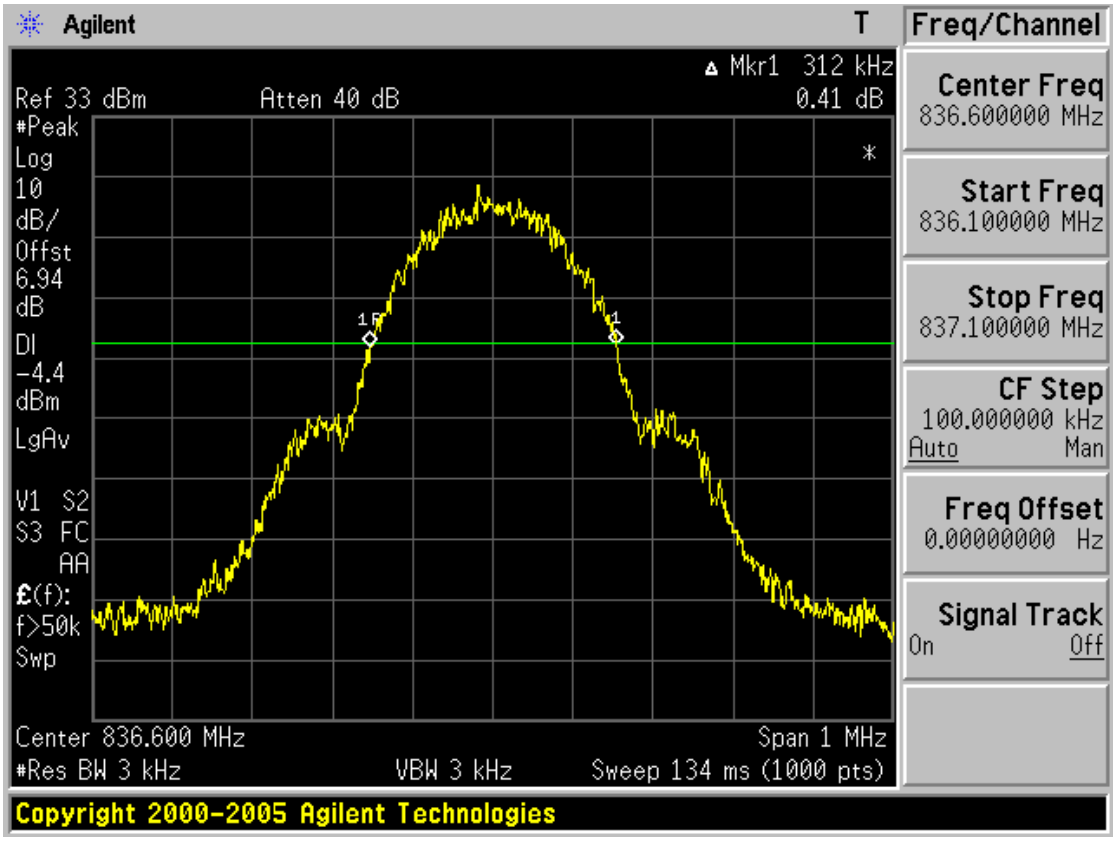
PCS1900

Channel	Frequency (MHz)	-26dBc Bandwidth (kHz)
512	1850.2	**312**
661	1880.0	**323**
810	1909.8	**323**

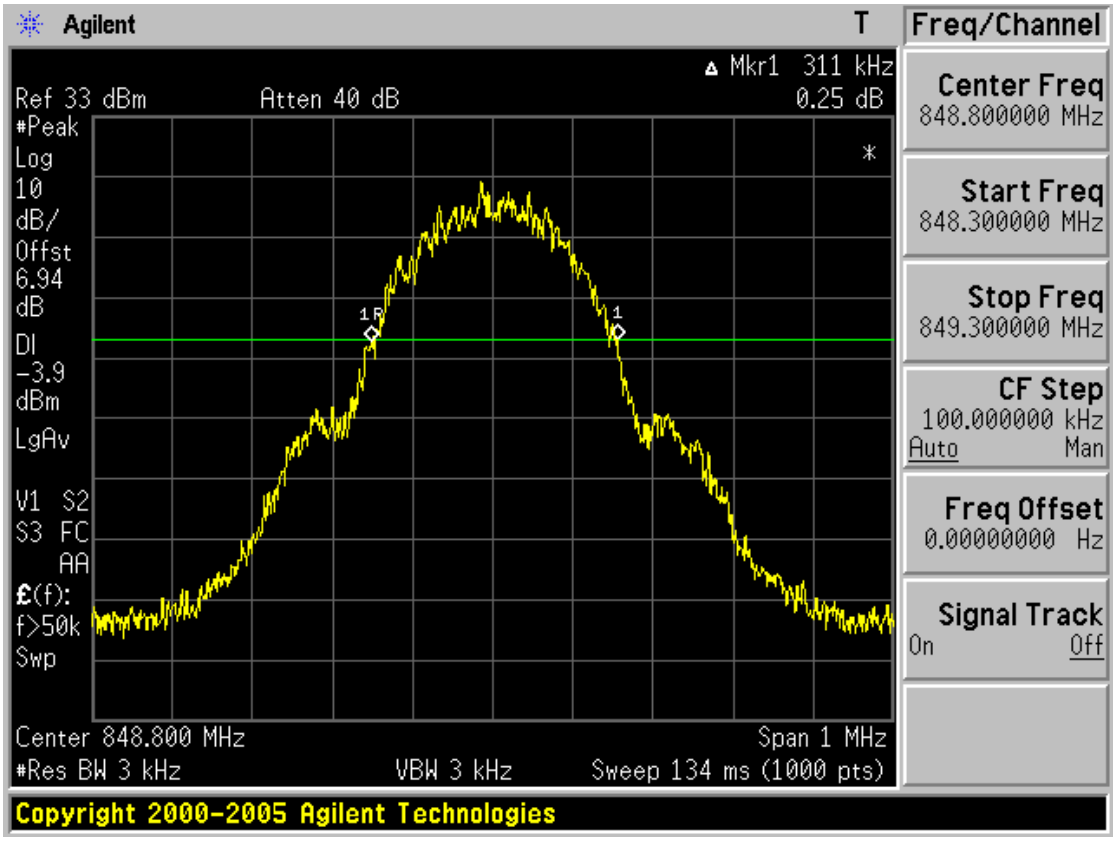
GSM850 **-26dBc Bandwidth Ch. 128**



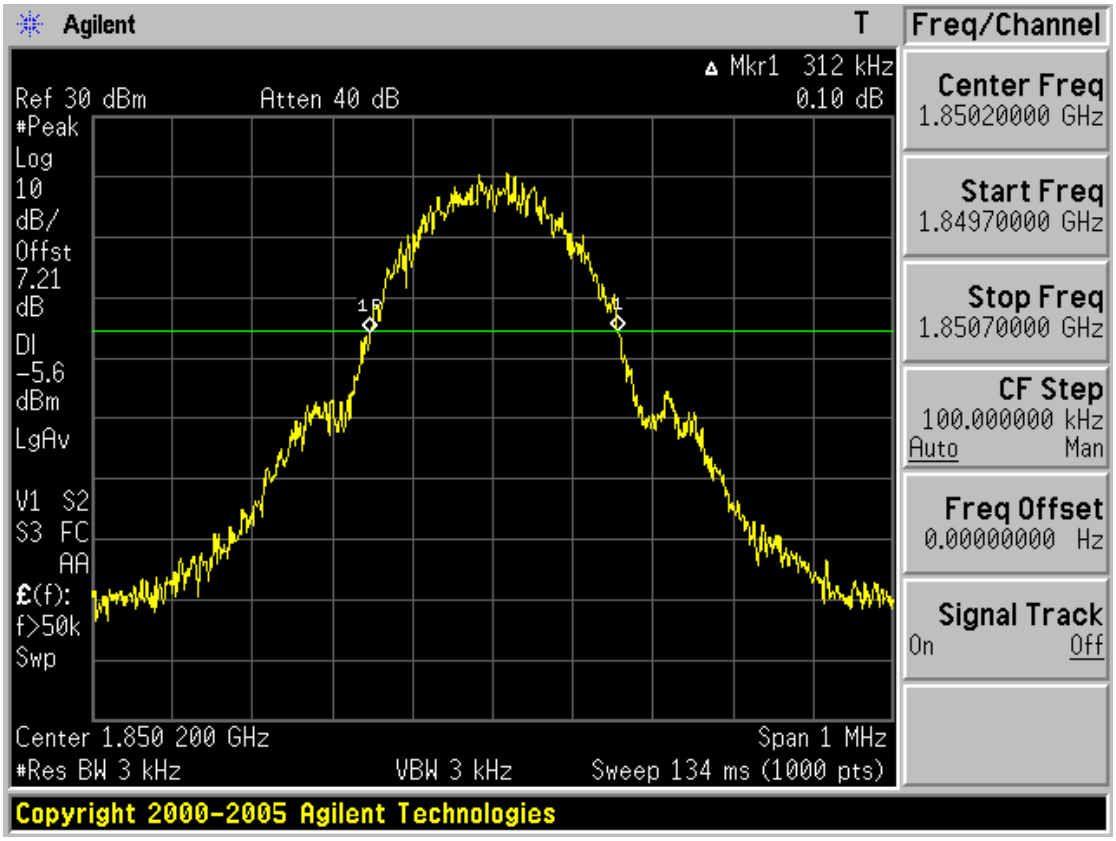
GSM850 **-26dBc Bandwidth Ch. 190**



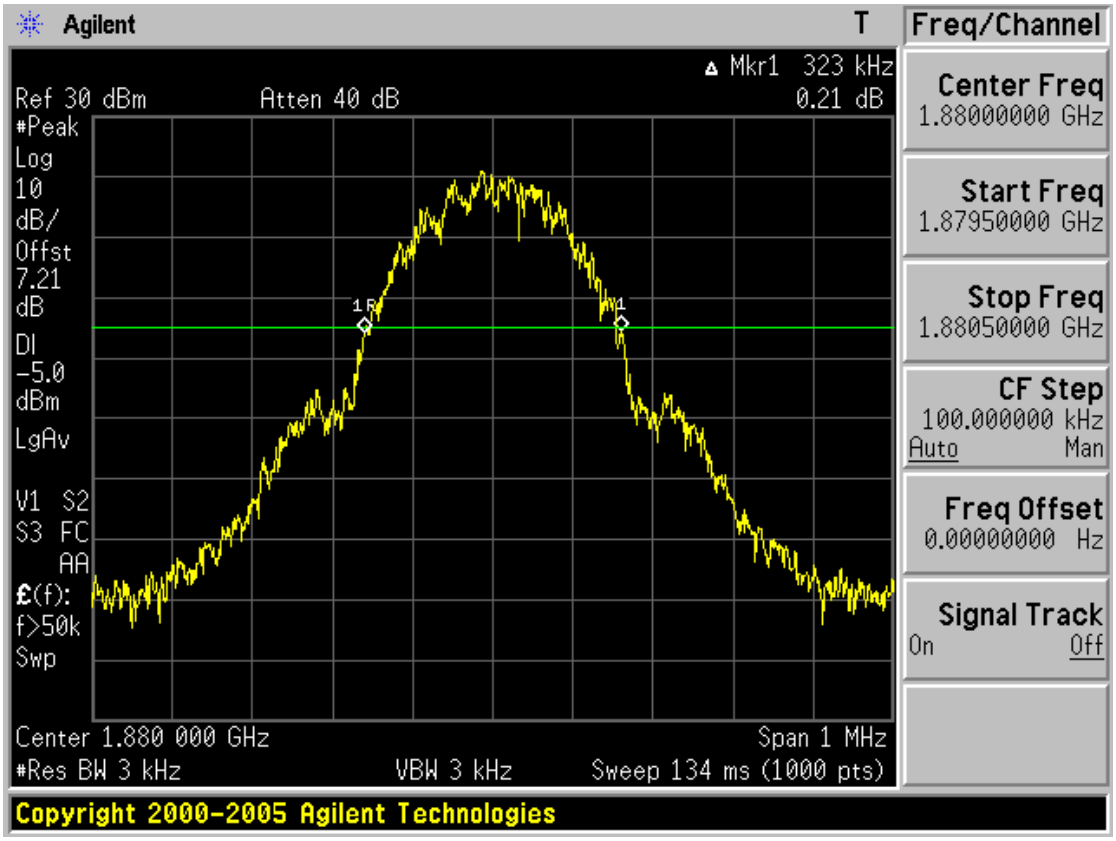
GSM850 **-26dBc Bandwidth Ch. 251**



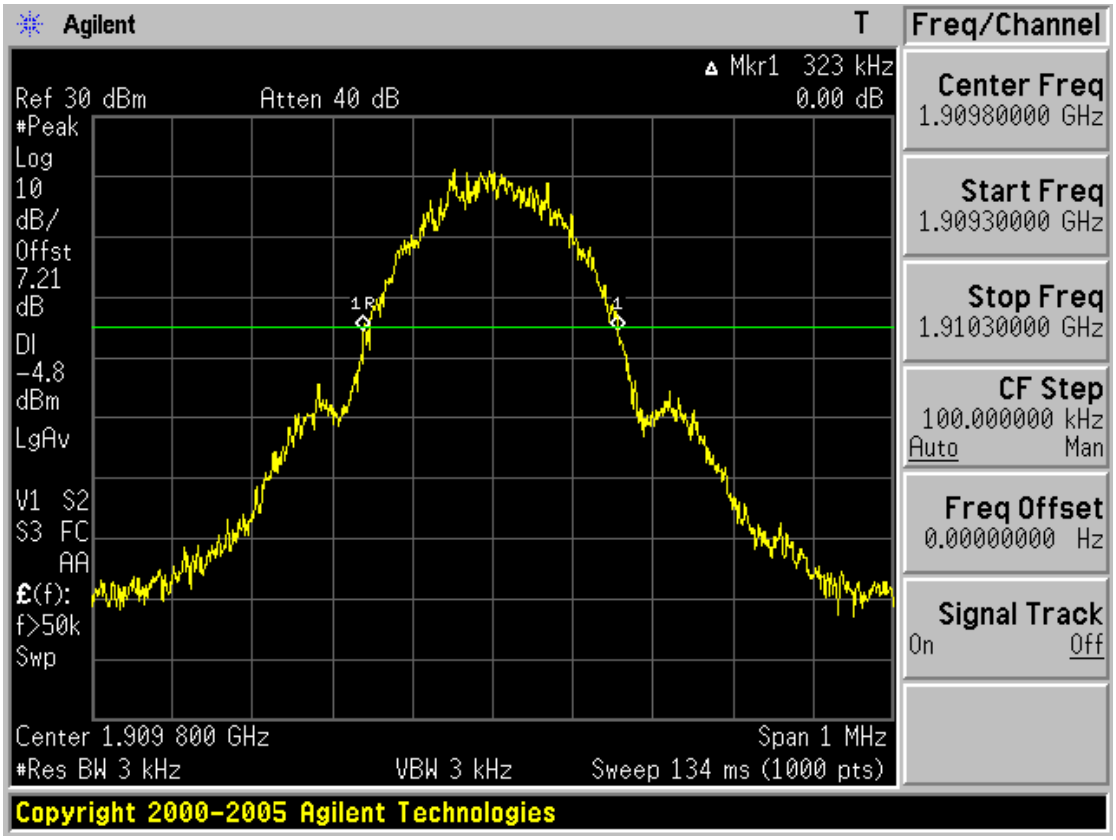
PCS1900 **-26dBc Bandwidth Ch. 512**



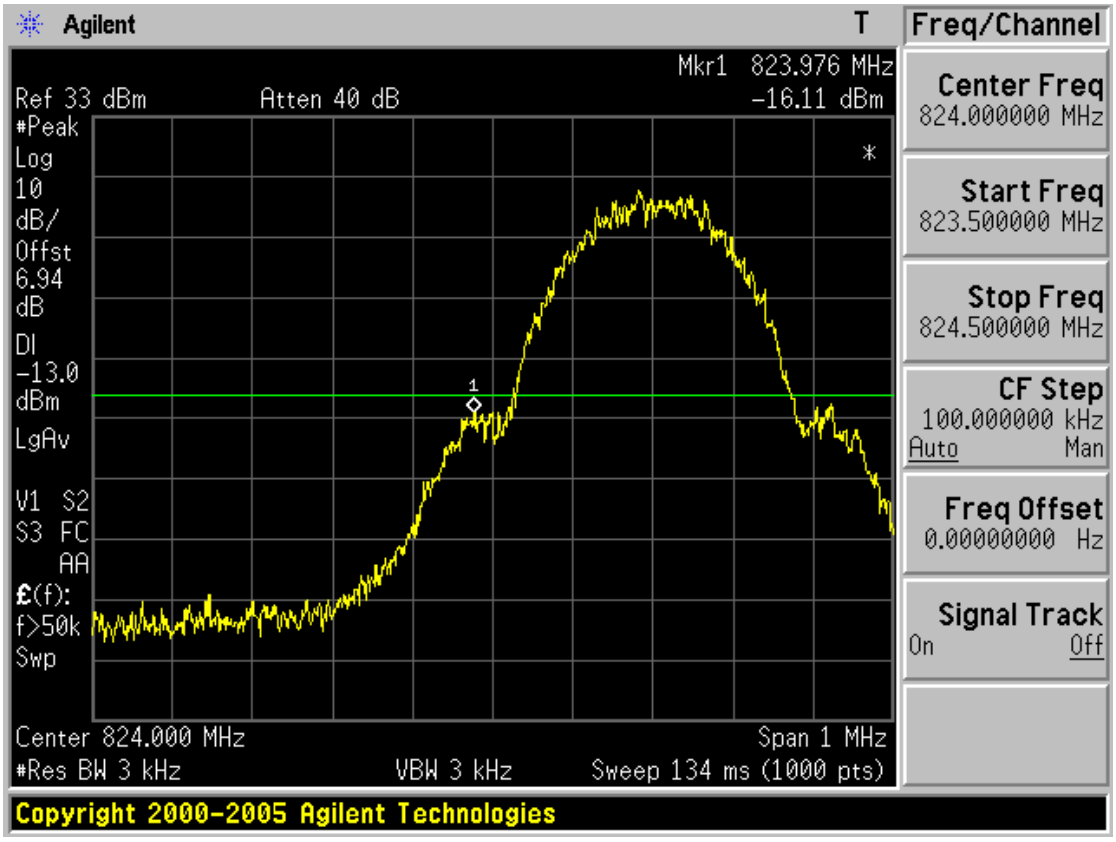
PCS1900 **-26dBc Bandwidth Ch. 661**



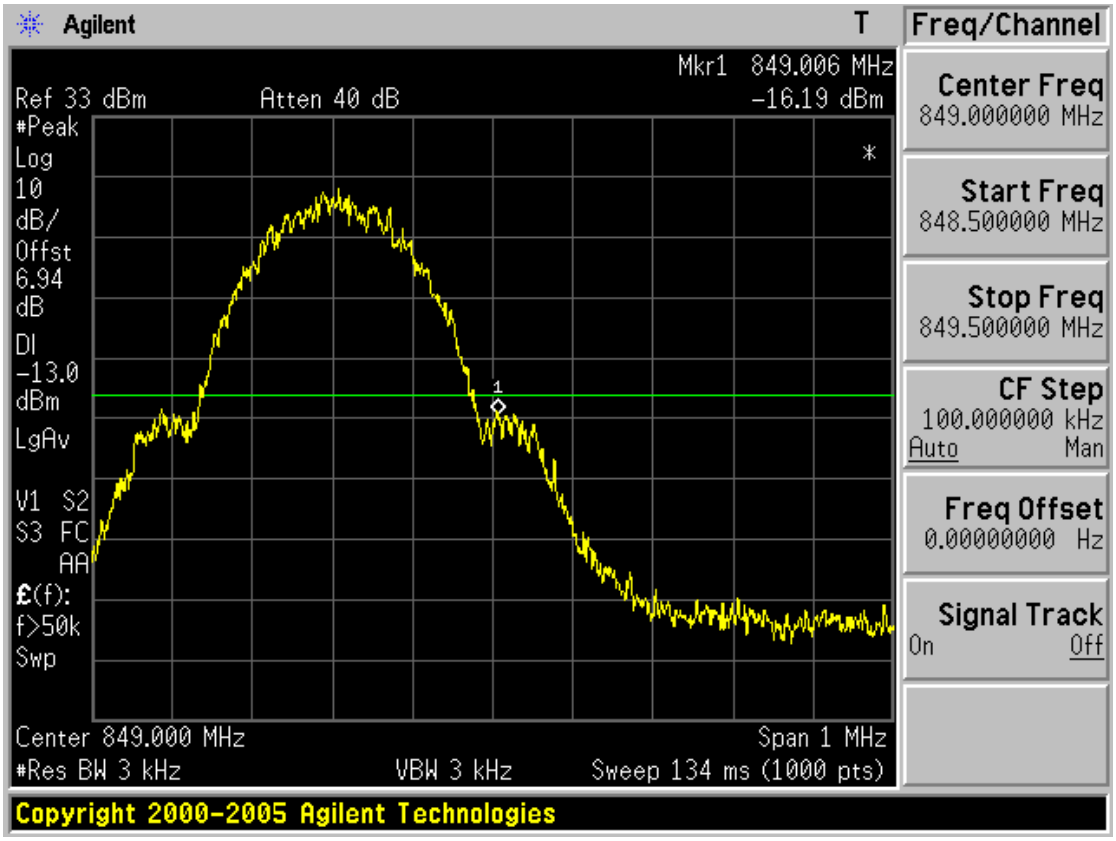
PCS1900 **-26dBc Bandwidth Ch. 810**



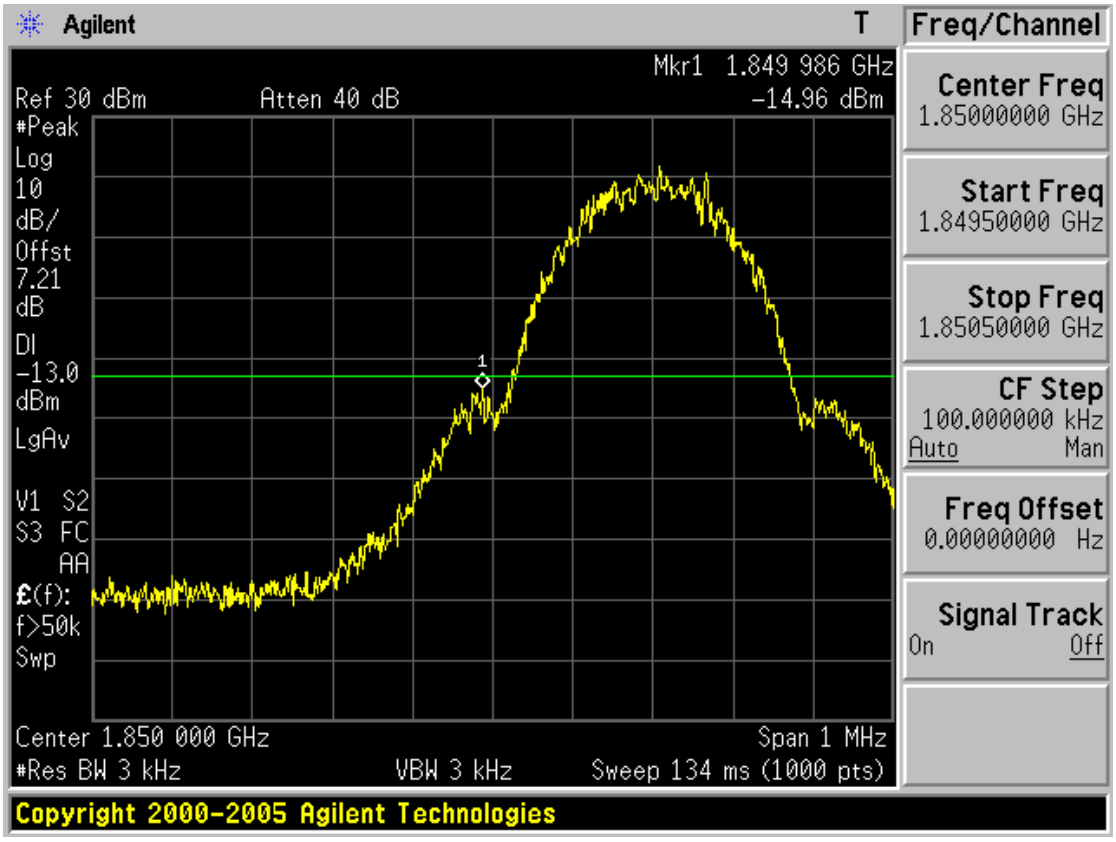
GSM850 **Band Edge Ch. 128**



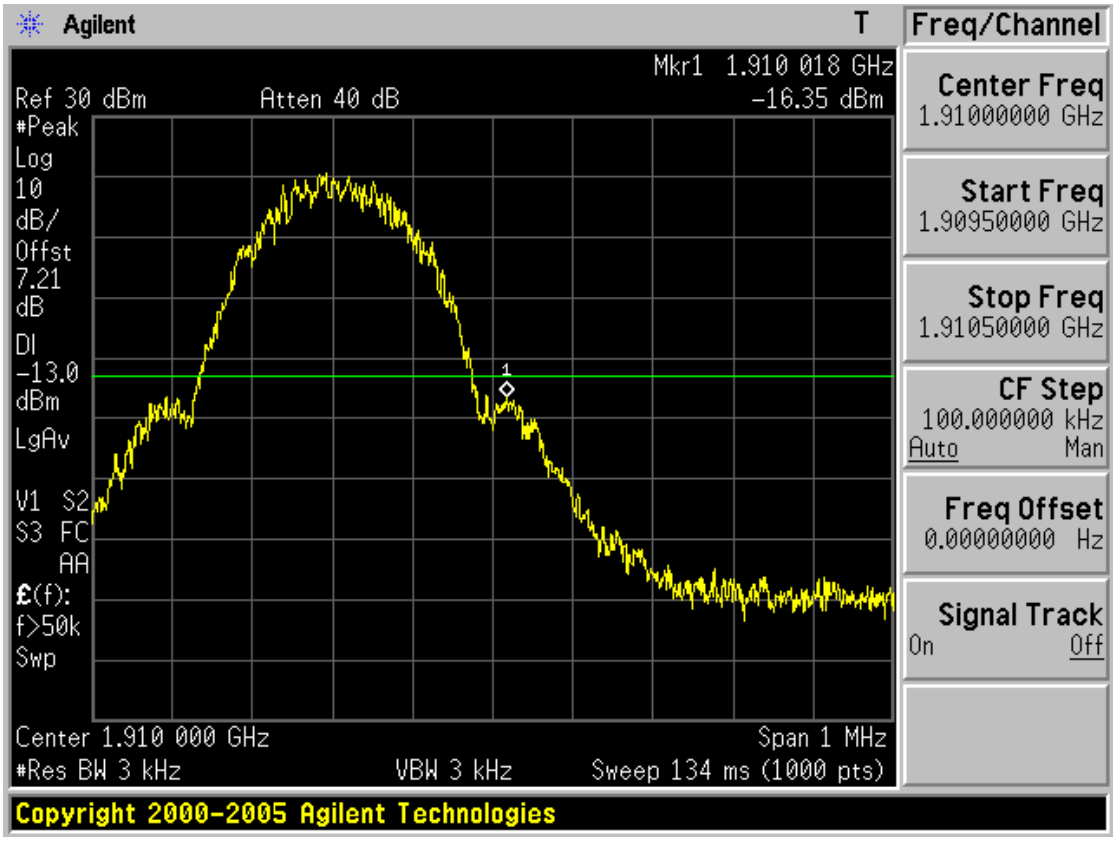
GSM850 **Band Edge Ch. 251**



PCS1900 **Band Edge Ch. 512**



PCS1900 **Band Edge Ch. 810**



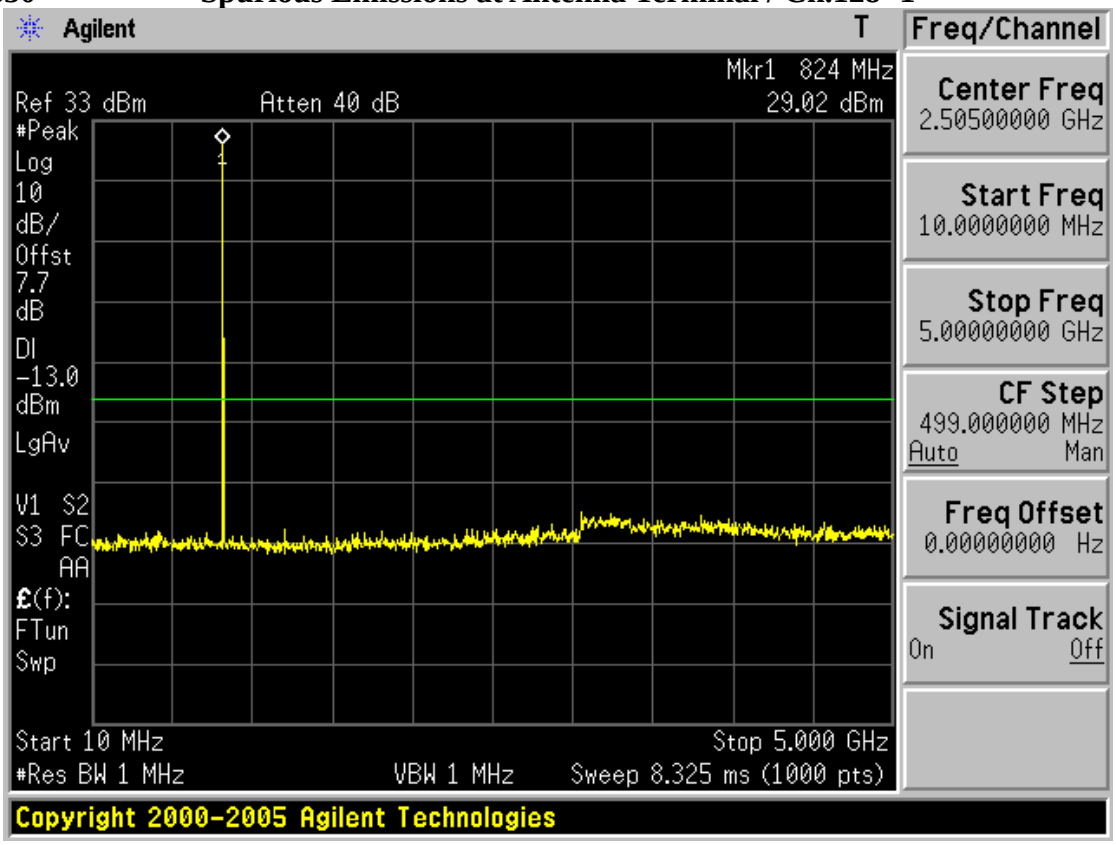
3.5 Spurious and Harmonic Emissions at Antenna Terminal

FCC ID	:	**NPQI170**
Specification	:	47 CFR 2.1051, 24.238(a)
Tested Frequency	:	824.2MHz, 836.6MHz and 848.8MHz for GSM850 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

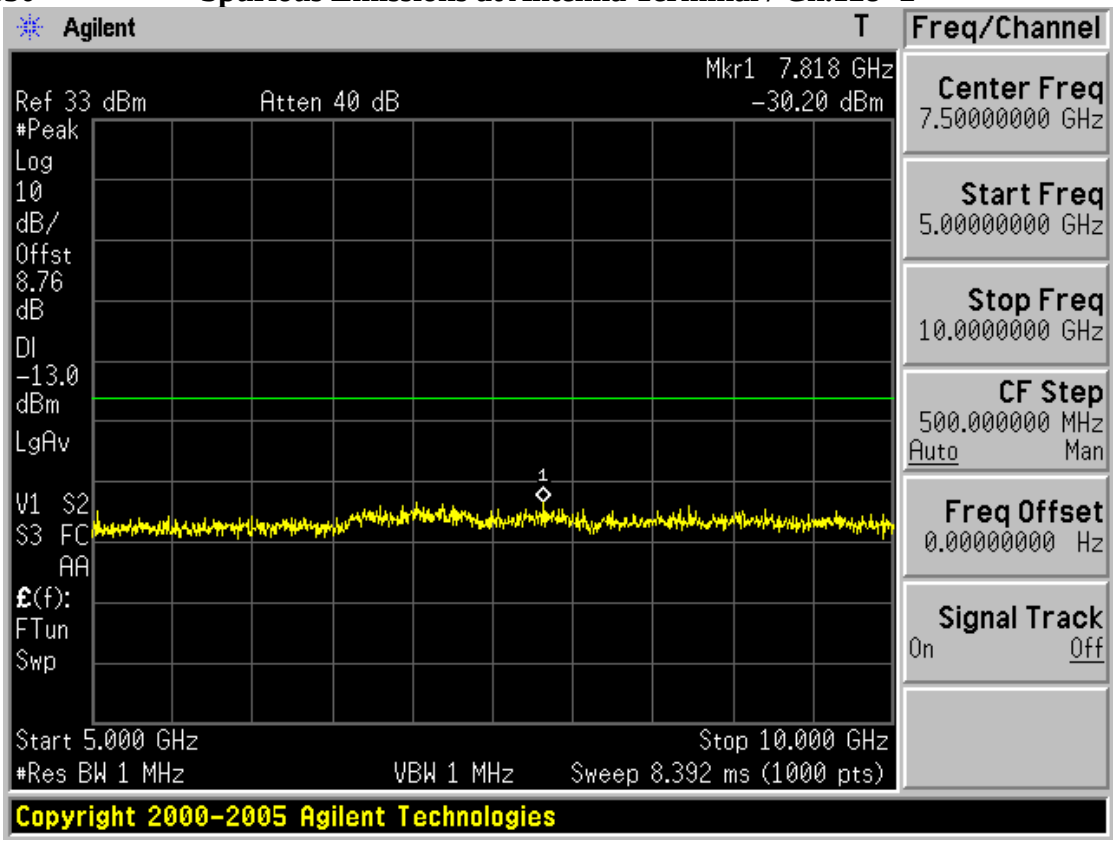
Measurement Procedure:

- The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.
- The spectrum is scanned from the lowest frequency generated in the equipment up to 10'th harmonics of the highest frequency.
- Spectrum analyzer plots are included on the following pages.

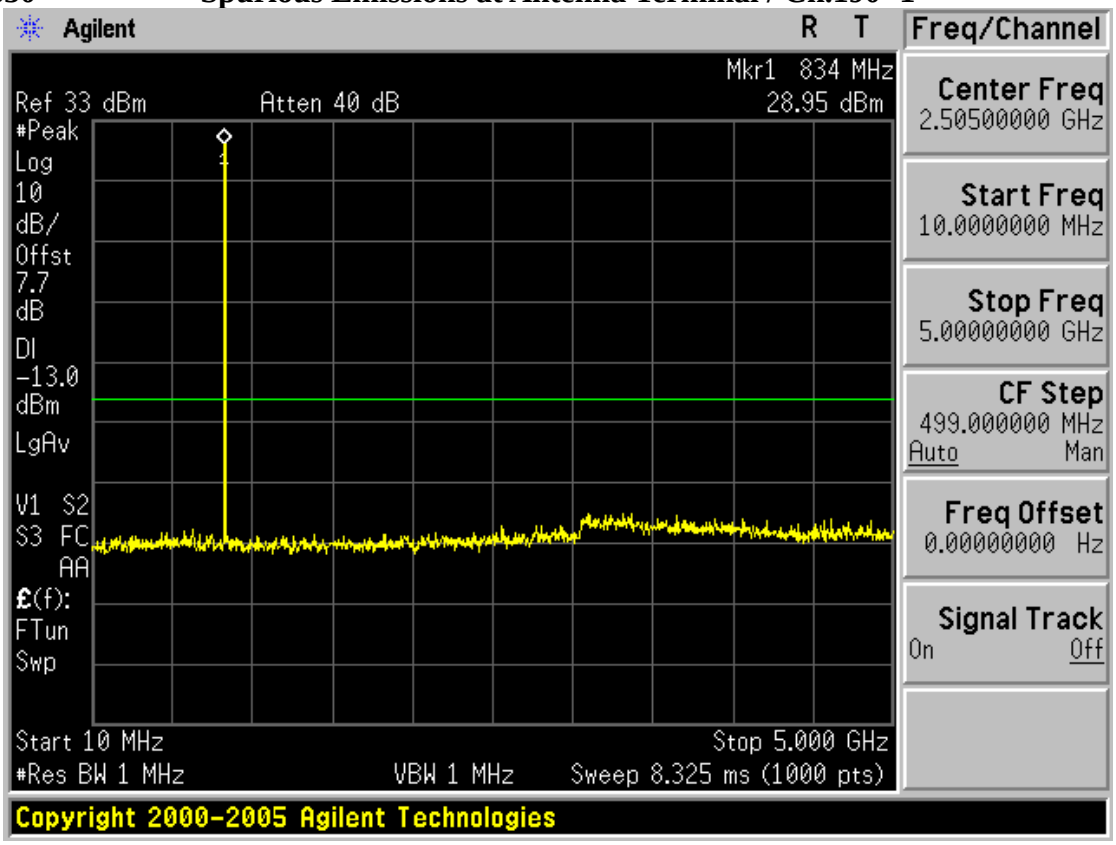
GSM850 Spurious Emissions at Antenna Terminal / Ch.128 -1



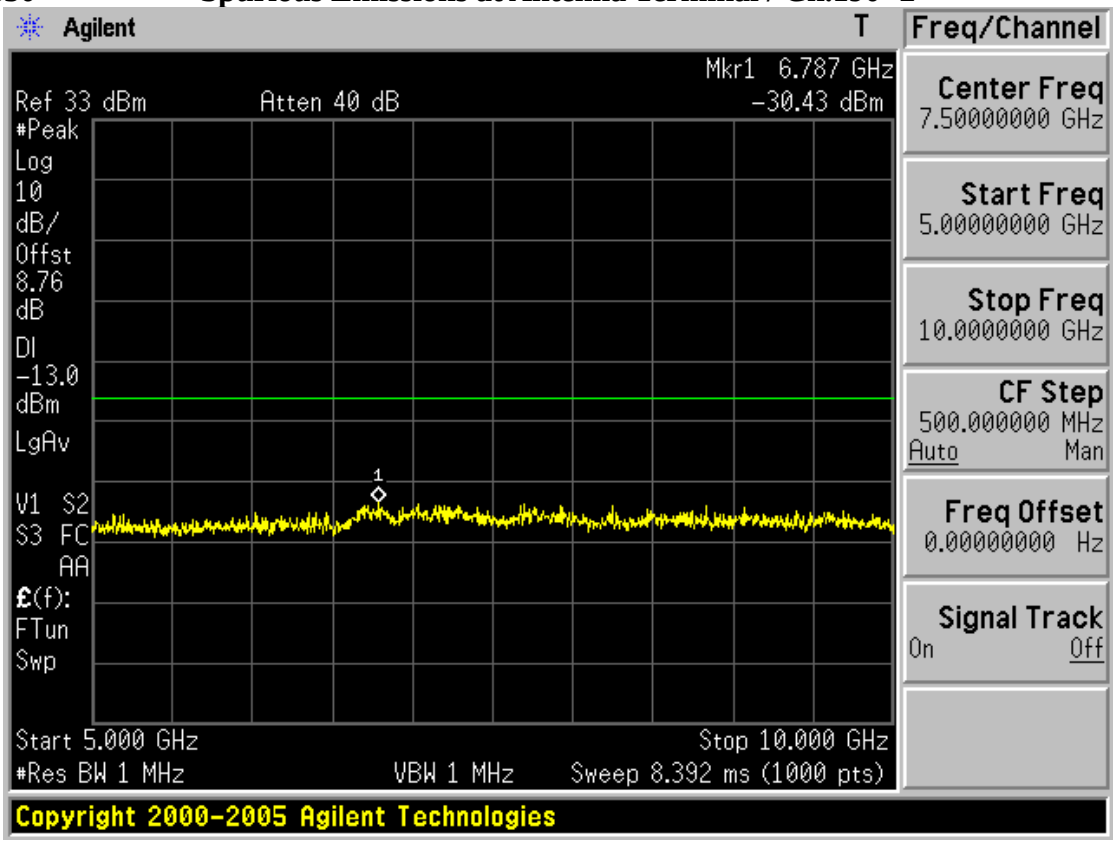
GSM850 Spurious Emissions at Antenna Terminal / Ch.128 -2



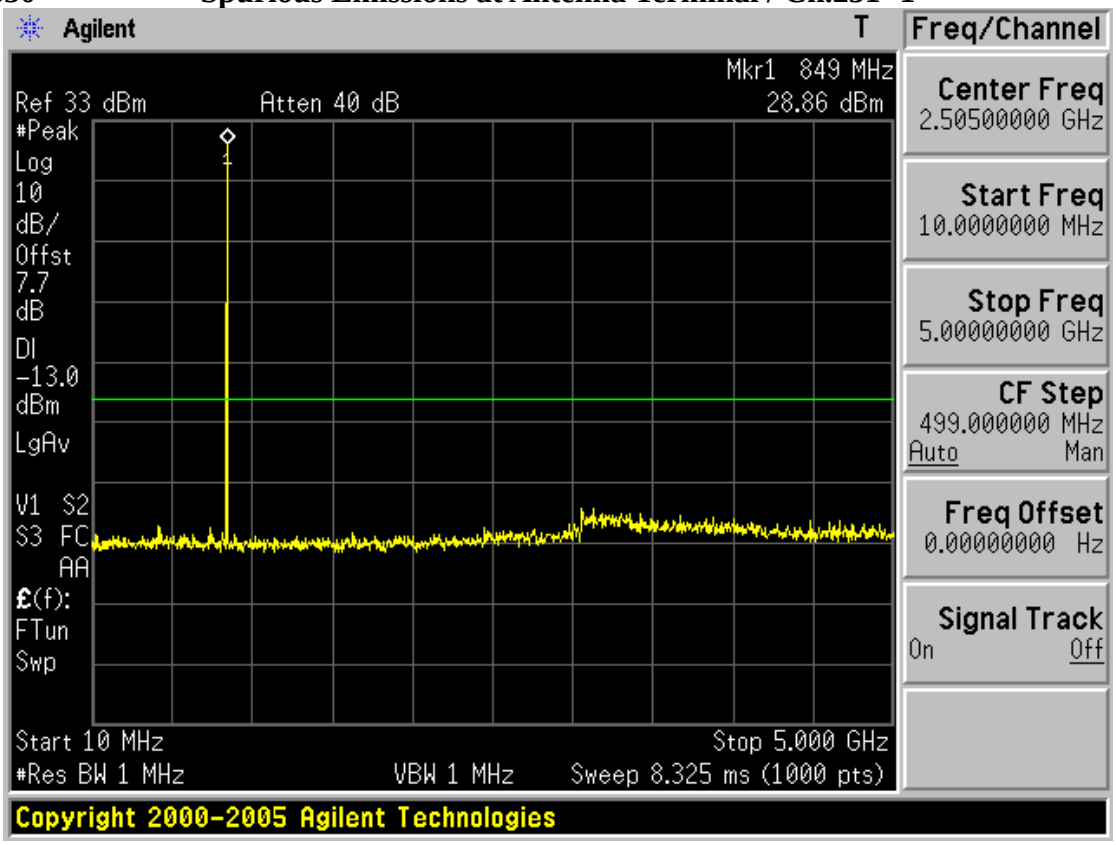
GSM850 Spurious Emissions at Antenna Terminal / Ch.190 -1



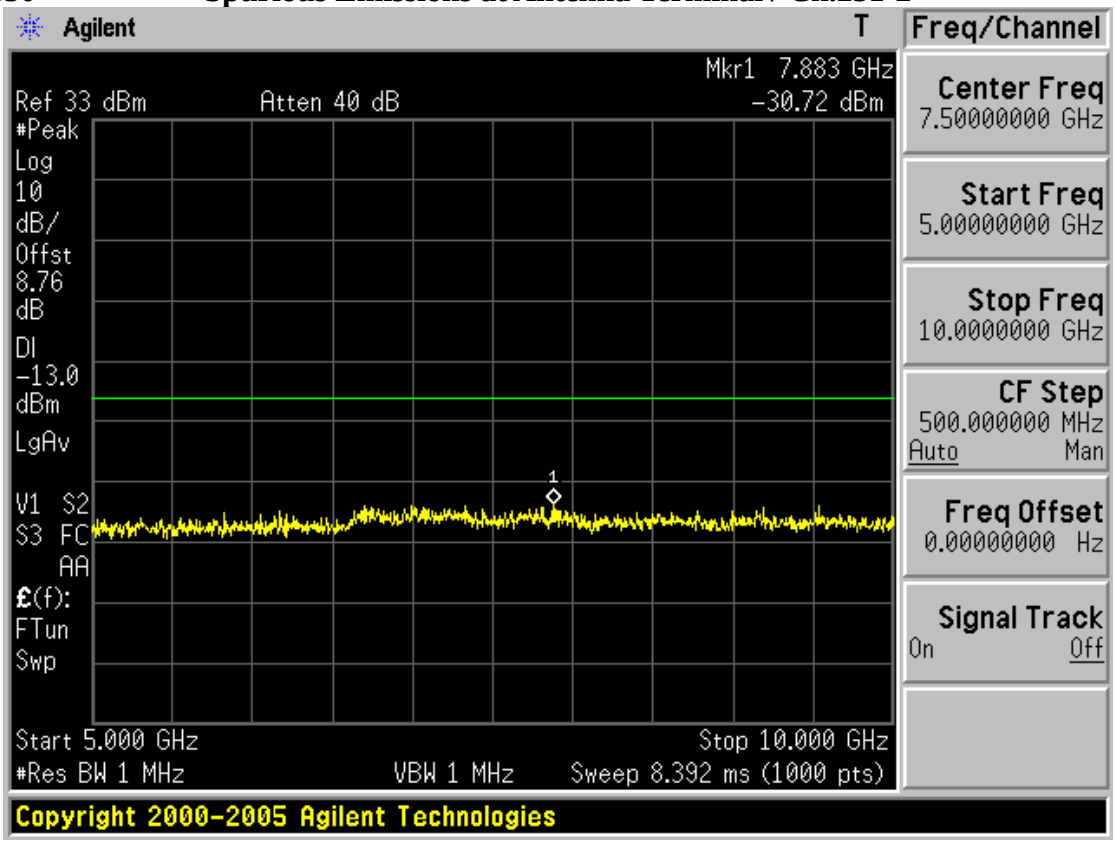
GSM850 Spurious Emissions at Antenna Terminal / Ch.190 -2



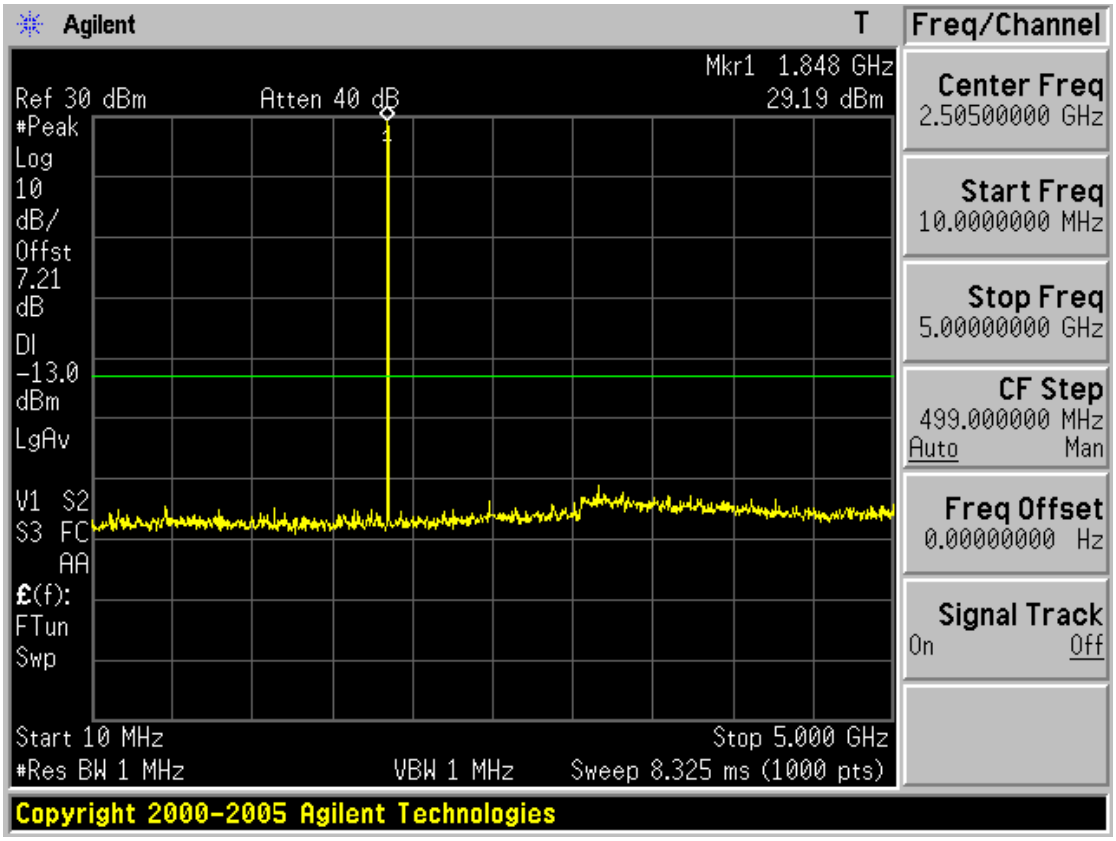
GSM850 Spurious Emissions at Antenna Terminal / Ch.251 -1



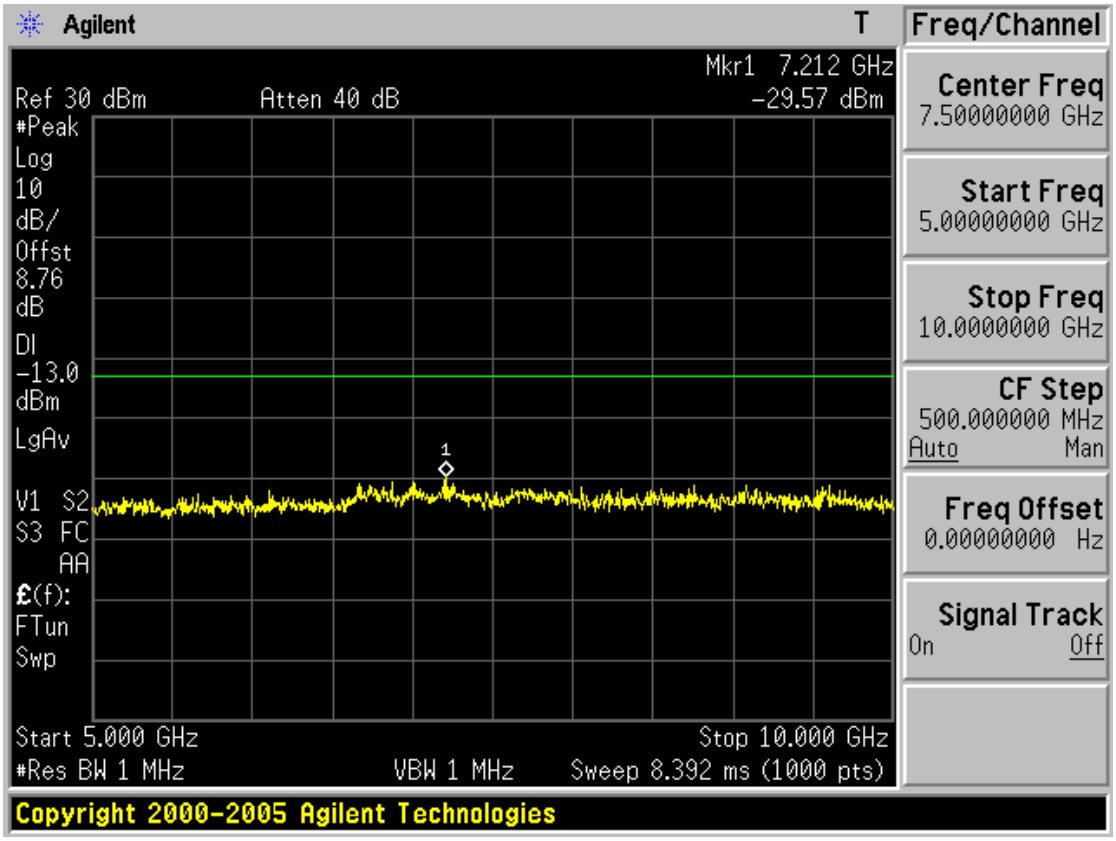
GSM850 Spurious Emissions at Antenna Terminal / Ch.251-2



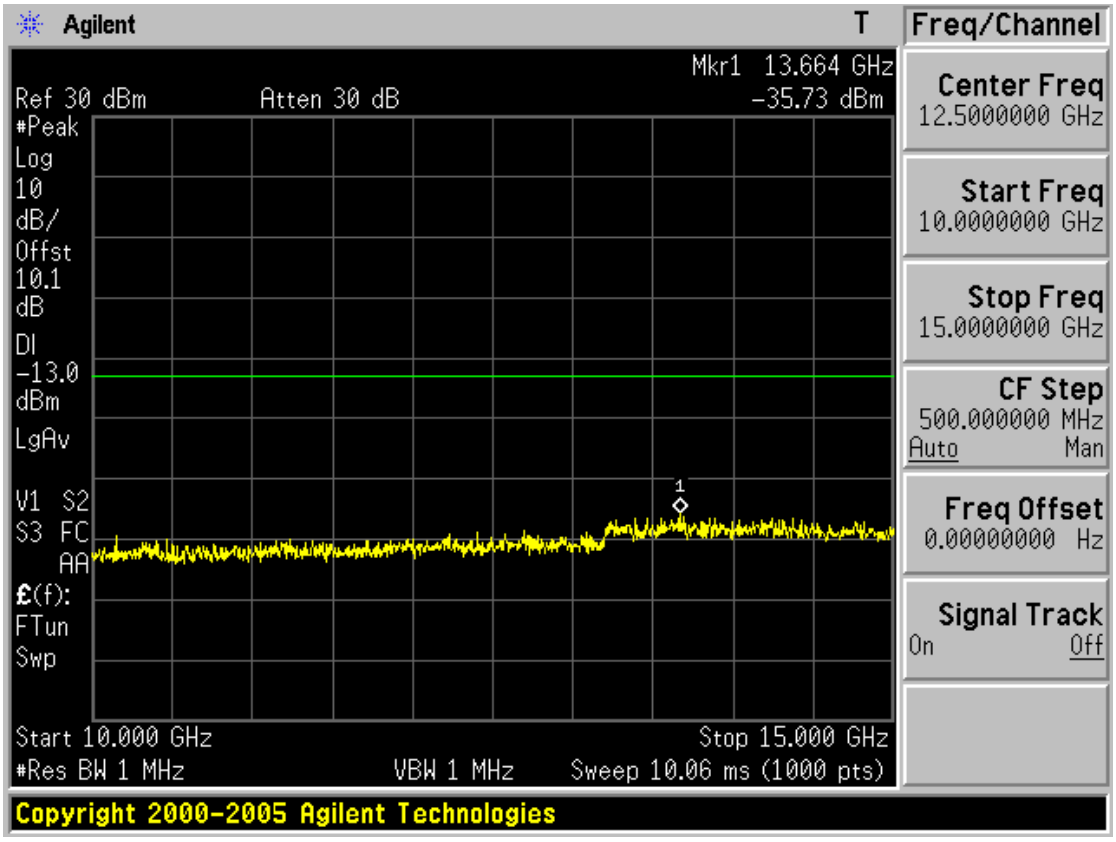
PCS1900 **Spurious Emissions at Antenna Terminal / Ch.512 -1**



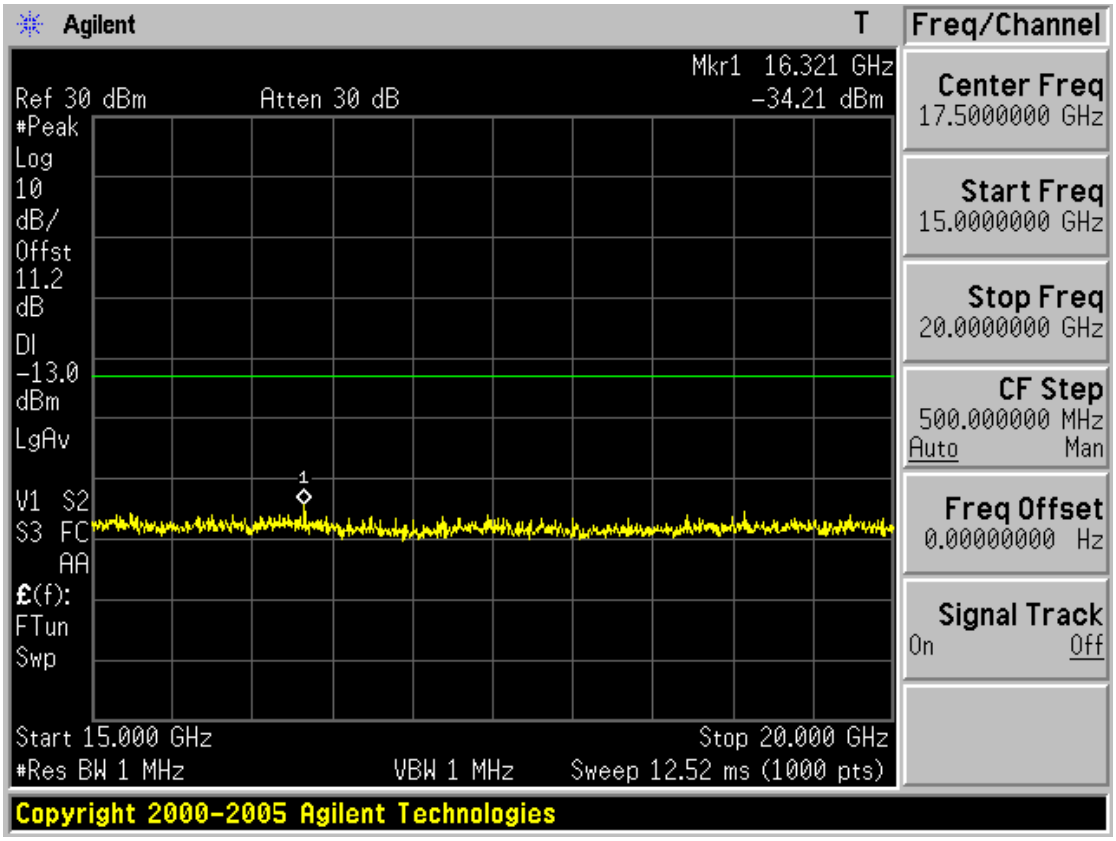
PCS1900 **Spurious Emissions at Antenna Terminal / Ch.512 -2**



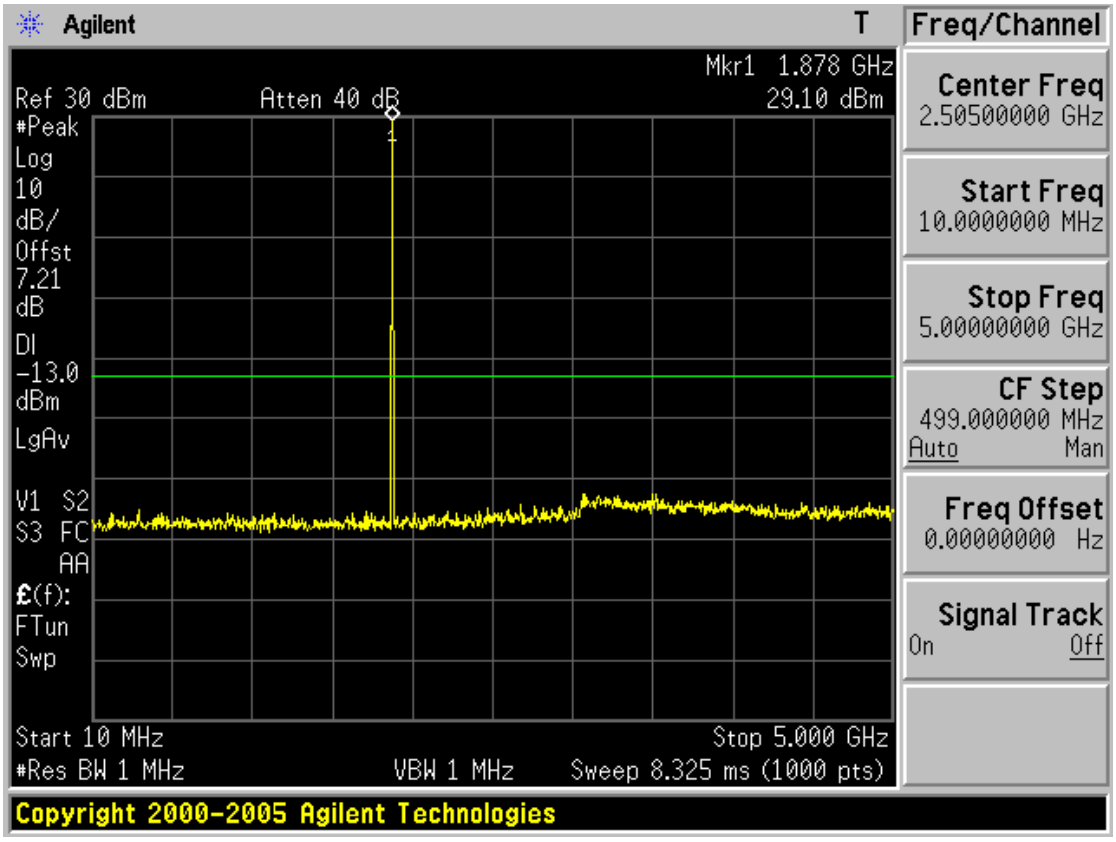
PCS1900 Spurious Emissions at Antenna Terminal / Ch.512 -3



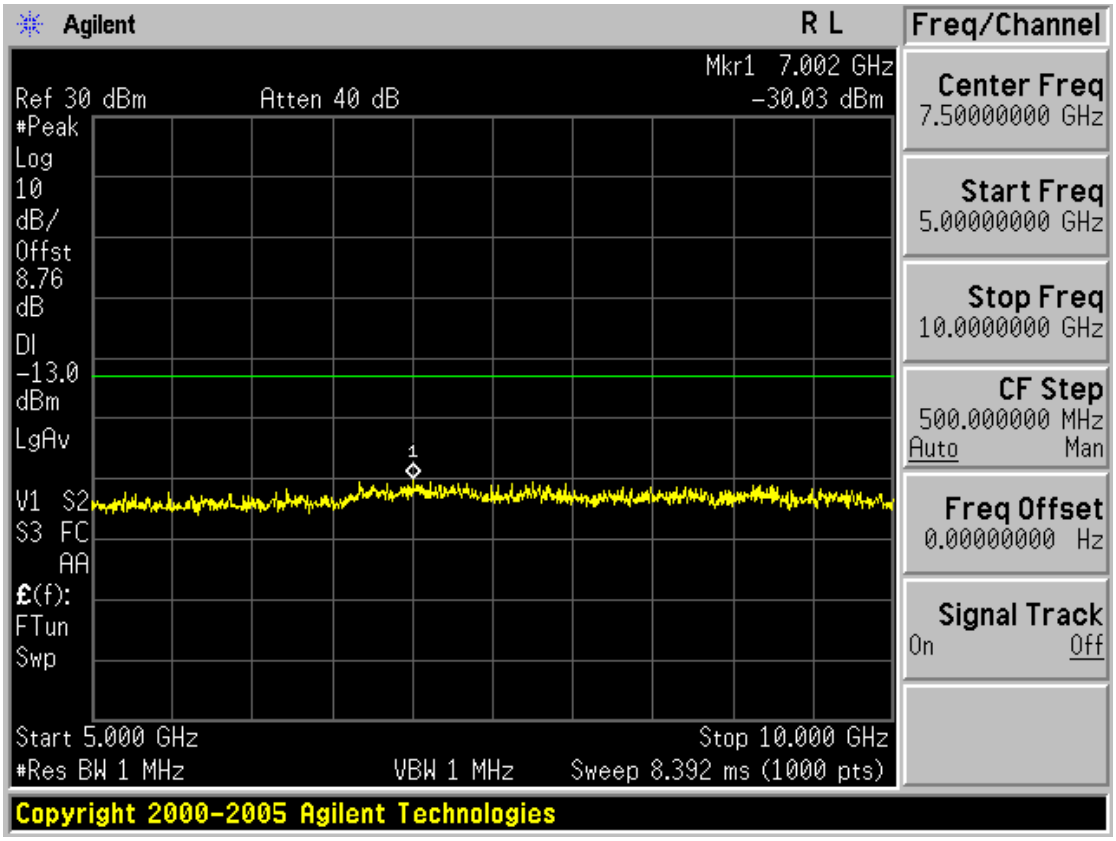
PCS1900 Spurious Emissions at Antenna Terminal / Ch.512 -4



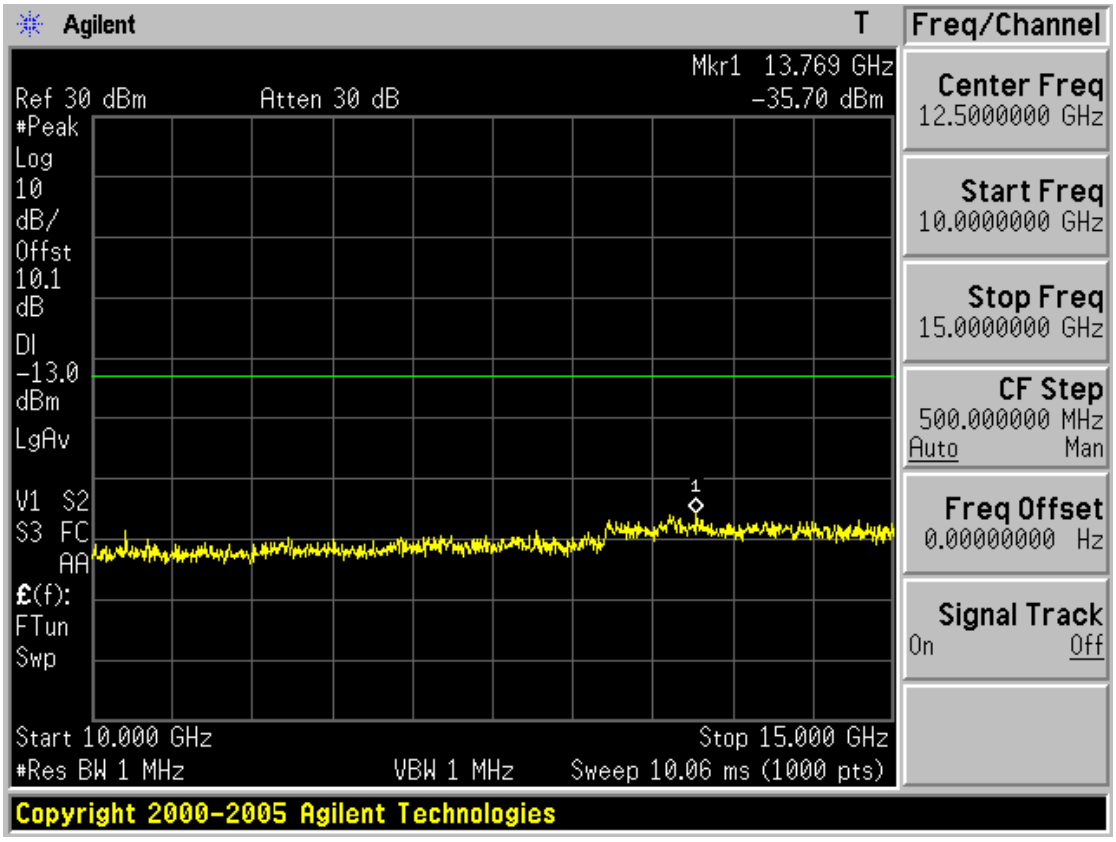
PCS1900 Spurious Emissions at Antenna Terminal / Ch.661 -1



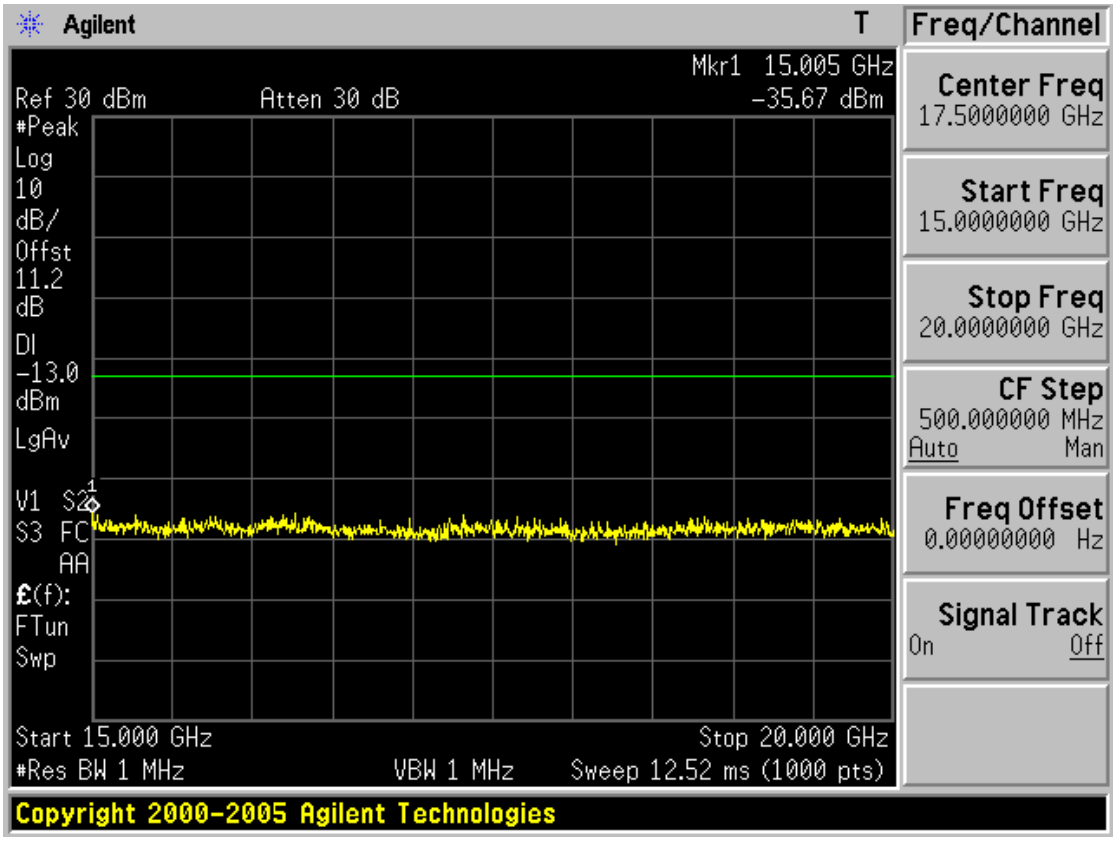
PCS1900 Spurious Emissions at Antenna Terminal / Ch.661 -2



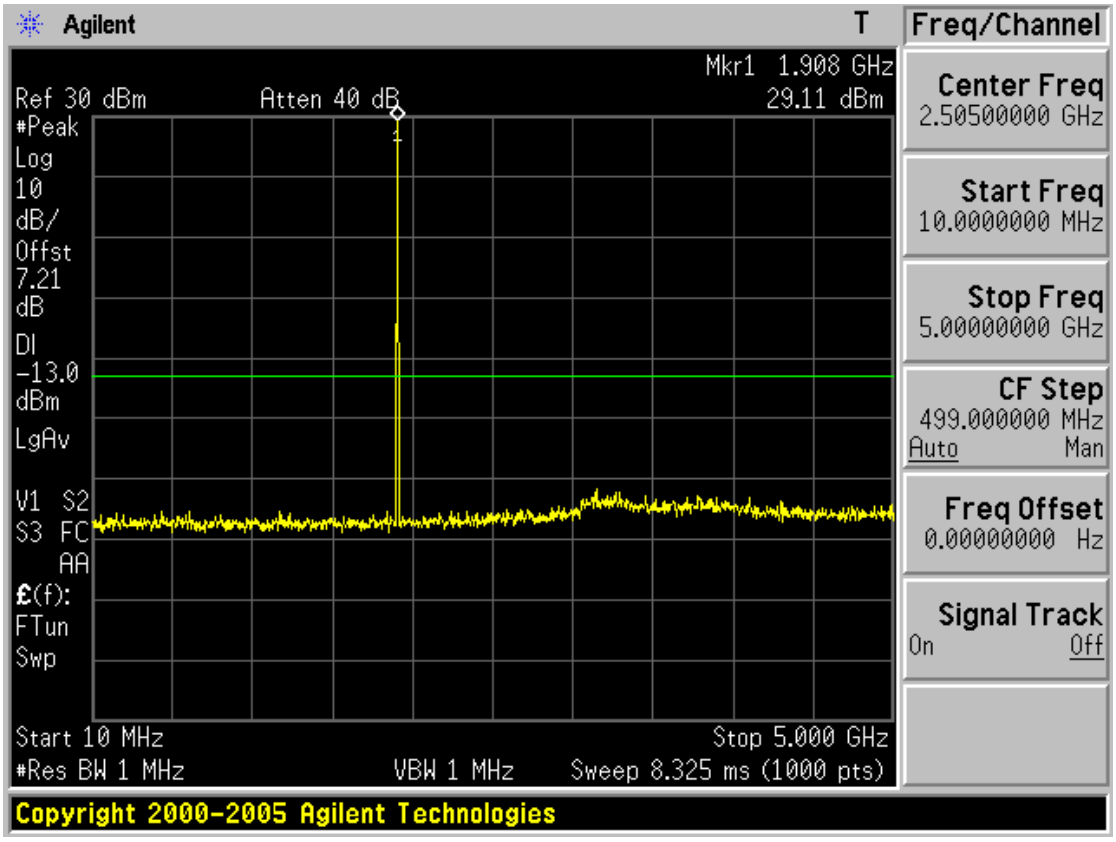
PCS1900 Spurious Emissions at Antenna Terminal / Ch.661 -3



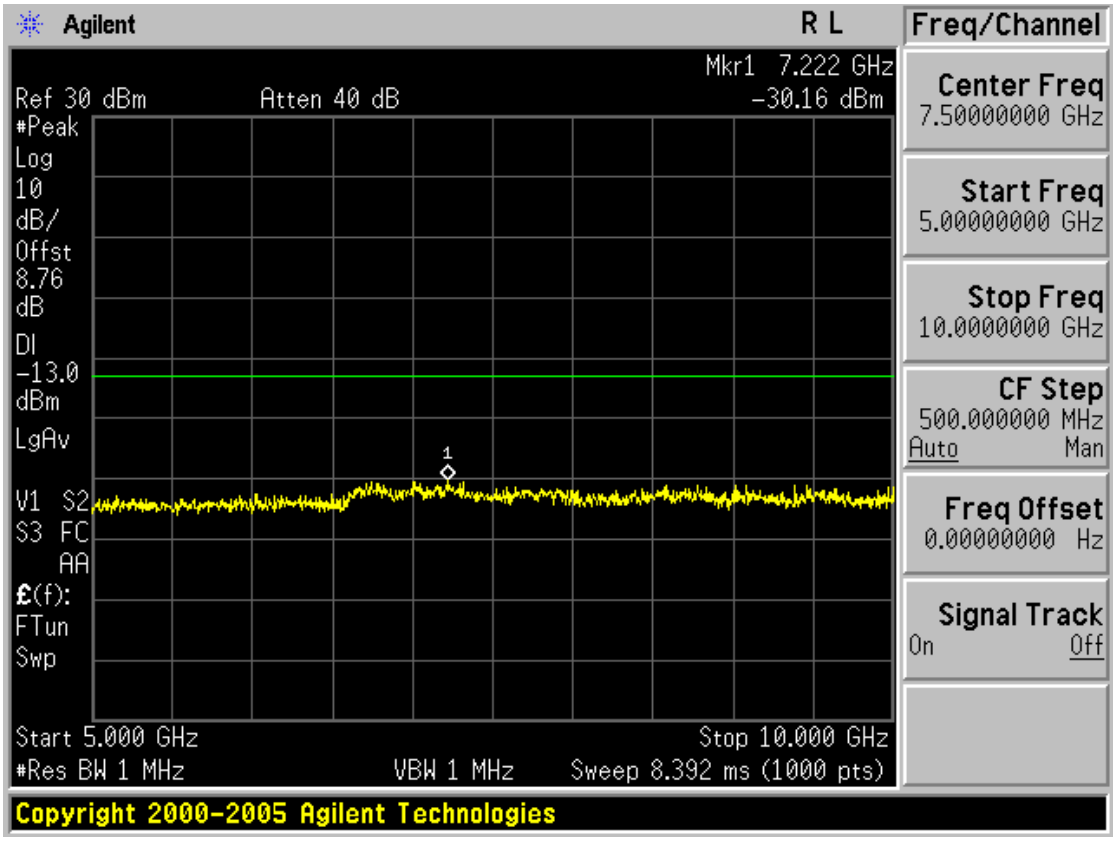
PCS1900 Spurious Emissions at Antenna Terminal / Ch.661 -4



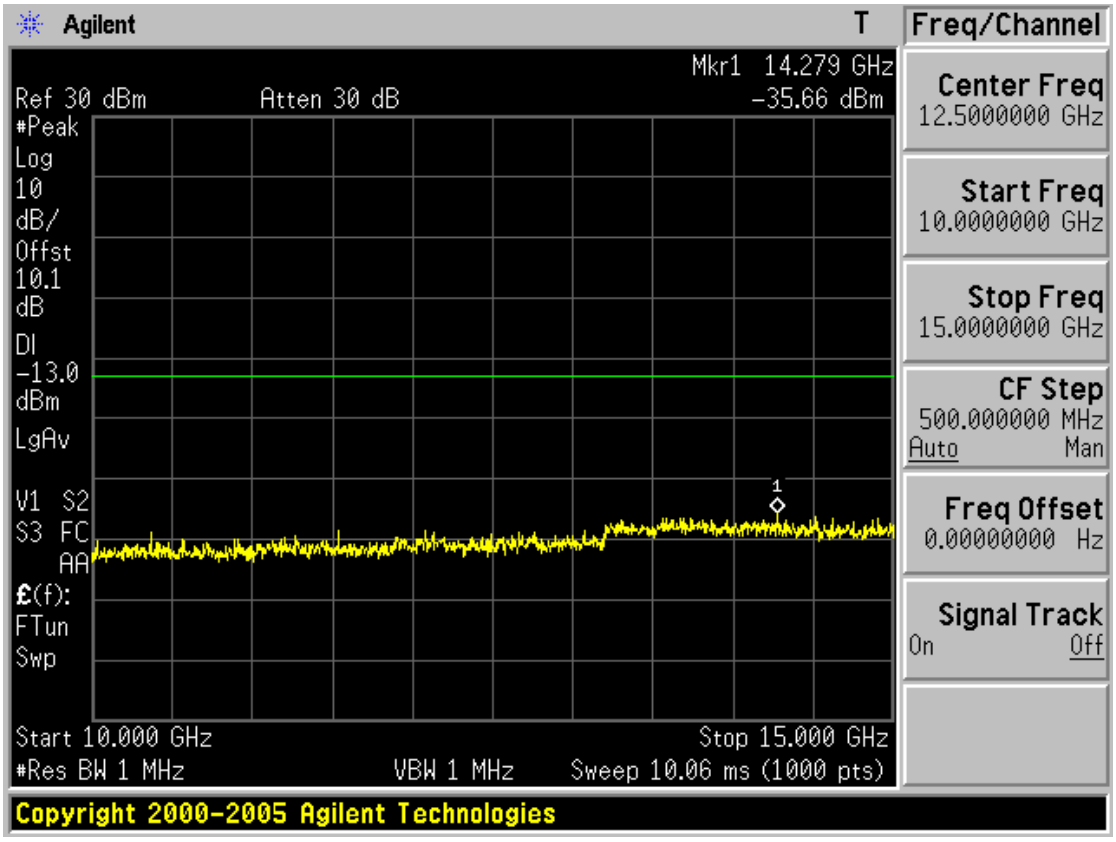
PCS1900 Spurious Emissions at Antenna Terminal / Ch.810 -1



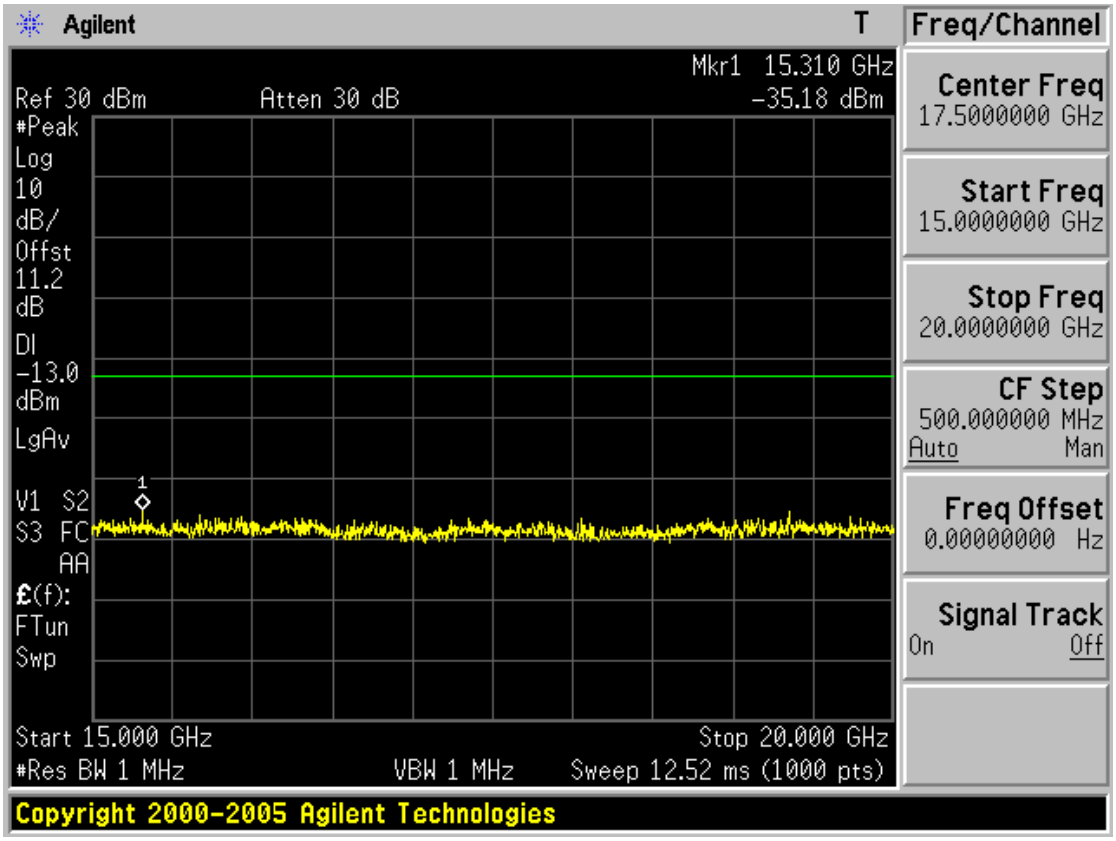
PCS1900 Spurious Emissions at Antenna Terminal / Ch.810 -2



PCS1900 Spurious Emissions at Antenna Terminal / Ch.810 -3



PCS1900 Spurious Emissions at Antenna Terminal / Ch.810 -4



3.6 Field Strength of Spurious Radiation

FCC ID	:	**NPQI170**
Specification	:	47 CFR 2.1053(a)
Tested Frequency	:	824.2MHz, 836.6MHz and 848.8MHz for GSM850 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

Measurement Procedure:

- Radiation and harmonic emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna.
  The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM850 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 824.2 MHz

CHANNEL : 128(Low)

MEASURED OUTPUT POWER : 26.59 dBm = 0.456 W

MODULATION SIGNAL : GSM (Internal)

DISTANCE : 3 meters

LIMIT : $43 + 10 \log_{10} (W)$ = 39.59 dBc

Freq. (MHz)	**LEVEL@ ANTENNA TERMINALS** (dBm)	**SUBSTITUTE ANTENNA GAIN** (dBd)	**CORRECT GENERATOR LEVEL** (dBm)	**POL** (H/V)	(dBc)
-	-	-	-	-	-
No emissions were detected at a level greater than 20dB below limit.					
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM850 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 836.6 MHz

CHANNEL : 190(Mid)

MEASURED OUTPUT POWER : 26.48 dBm = 0.445 W

MODULATION SIGNAL : GSM (Internal)

DISTANCE : 3 meters

LIMIT : 43 + 10 $\log_{10}$ (W) = 39.48 dBc

Freq. (MHz)	**LEVEL@ ANTENNA TERMINALS** (dBm)	**SUBSTITUTE ANTENNA GAIN** (dBd)	**CORRECT GENERATOR LEVEL** (dBm)	**POL** (H/V)	(dBc)
-	-	-	-	-	-
No emissions were detected at a level greater than 20dB below limit.					
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM850 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 848.8 MHz

CHANNEL : 251(High)

MEASURED OUTPUT POWER : 26.32 dBm = 0.429 W

MODULATION SIGNAL : GSM (Internal)

DISTANCE : 3 meters

LIMIT : 43 + 10 $\log_{10}$ (W) = 39.32 dBc

Freq. (MHz)	**LEVEL@ ANTENNA TERMINALS** (dBm)	**SUBSTITUTE ANTENNA GAIN** (dBd)	**CORRECT GENERATOR LEVEL** (dBm)	**POL** (H/V)	(dBc)
-	-	-	-	-	-
No emissions were detected at a level greater than 20dB below limit.					
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM1900 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 1850.2 MHz

CHANNEL : 512(Low)

MEASURED OUTPUT POWER : 28.70 dBm = 0.741 W

MODULATION SIGNAL : GSM (Internal)

DISTANCE : 3 meters

LIMIT : $43 + 10 \log_{10} (W)$ = 41.70 dBc

Freq. (MHz)	**LEVEL@ ANTENNA TERMINALS** (dBm)	**SUBSTITUTE ANTENNA GAIN** (dBi)	**CORRECT GENERATOR LEVEL** (dBm)	**POL** (H/V)	(dBc)
No emissions were detected at a level greater than 20dB below limit.					
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM1900 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 1880.0 MHz
CHANNEL : 661(Mid)
MEASURED OUTPUT POWER : 29.92 dBm = 0.981 W
MODULATION SIGNAL : GSM (Internal)
DISTANCE : 3 meters
LIMIT : 43 + 10 $\log_{10}$ (W) = 42.92 dBc

Freq. (MHz)	**LEVEL@ ANTENNA TERMINALS** (dBm)	**SUBSTITUTE ANTENNA GAIN** (dBi)	**CORRECT GENERATOR LEVEL** (dBm)	**POL** (H/V)	(dBc)
3760.0	-43.50	9.70	-33.80	V	63.77
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM1900 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 1909.8 MHz

CHANNEL : 810(High)

MEASURED OUTPUT POWER : 28.87 dBm = 0.772 W

MODULATION SIGNAL : GSM (Internal)

DISTANCE : 3 meters

LIMIT : $43 + 10 \log_{10} (W)$ = 41.87 dBc

Freq. (MHz)	**LEVEL@ ANTENNA TERMINALS** (dBm)	**SUBSTITUTE ANTENNA GAIN** (dBi)	**CORRECT GENERATOR LEVEL** (dBm)	**POL** (H/V)	(dBc)
-	-	-	-	-	-
No emissions were detected at a level greater than 20dB below limit.					
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

3.7 Frequency Stability/Temperature Variation.

FCC ID	:	**NPQI170**
Specification	:	47 CFR 2.1055
Tested Frequency	:	836.6MHz for GSM850 1880.0MHz for PCS1900

Measurement Procedure:

The frequency stability of the transmitter is measured by:

a) **Temperature** :The temperature is varied from -30°C to + 50°C using an environmental chamber.
b) **Primary Supply Voltage** :The primary supply voltage is varied from 85% to 115% of the voltage Normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification –The minimum frequency stability shall be +/- 0.00025% at any time during normal operation.

Specification — The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025(±2.5ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25°C to 27 °C to provide a reference)
2. The equipment is subjected to an overnight “soak” at -30°C without any power applied.
3. After the overnight ”soak” at -30°C(usually 14-16 hours),the equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency to the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
4. Frequency measurements is made at 10°C interval up to room temperature. At least a period of one and one half hour is provided to allow stabilization of the equipment at each temperature level.
5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
6. Frequency were made at 10intervals starting at -30°C up to +50°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after applying power to the transmitter.
7. The artificial load is mounted external to the temperature chamber.

Frequency Stability (GSM850)

OPERATING FREQUENCY : 836,599,991 Hz

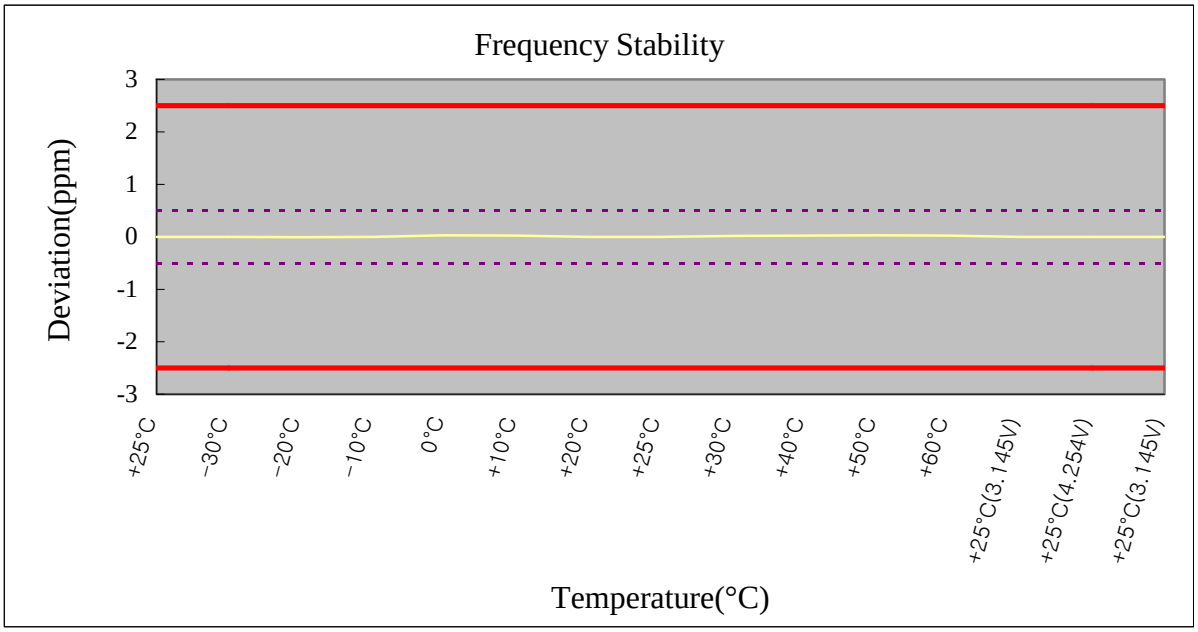
CHANNEL : 190(Mid)

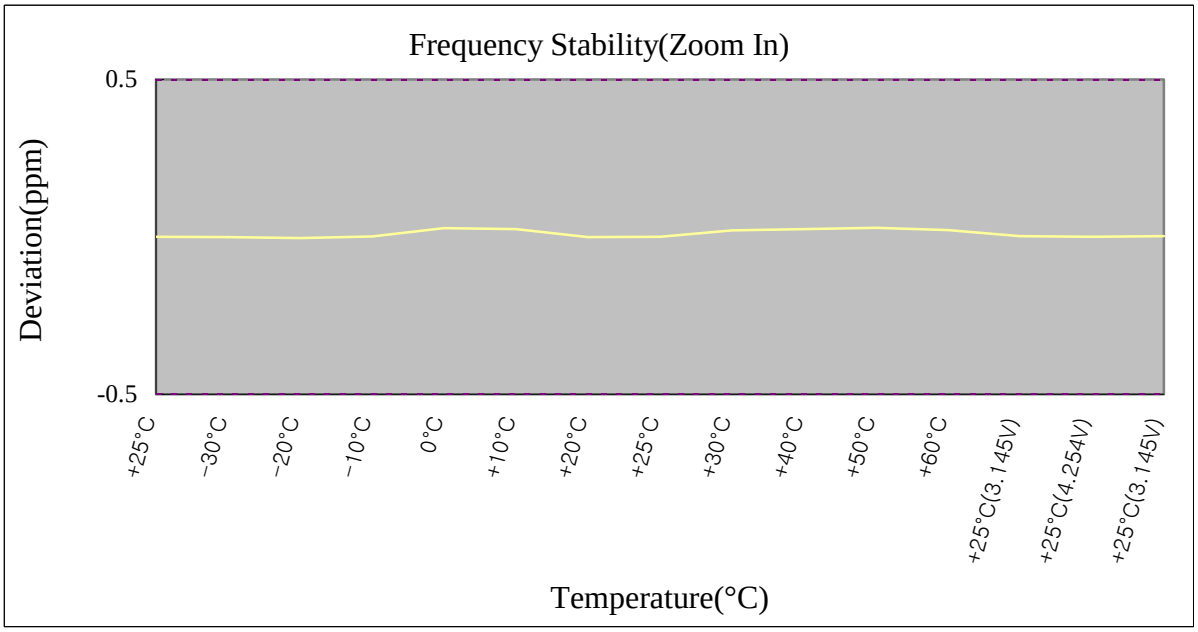
REFERENCE VOLTAGE : 3.7 VDC

DEVIATION LIMIT : ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (dB)	FREQ (Hz)	Deviation (%)
100%	3.7	+25(Ref)	836,599,991	0.000000
100%		-30	836,599,990	0.000000
100%		-20	836,599,988	0.000000
100%		-10	836,599,992	0.000000
100%		0	836,600,014	0.000003
100%		+10	836,600,011	0.000002
100%		+20	836,599,990	0.000000
100%		+25	836,599,991	0.000000
100%		+30	836,600,008	0.000002
100%		+40	836,600,011	0.000002
100%		+50	836,600,015	0.000003
100%		+60	836,600,009	0.000002
85%	3.145	+25	836,599,993	0.000000
115%	4.255	+25	836,599,991	0.000000
BATT.ENDPOINT	3.145	+25	836,599,993	0.000000

Frequency Stability(GSM850) **(Continued…)**





Frequency Stability (PCS1900)

OPERATING FREQUENCY : 1,879,999,967 Hz

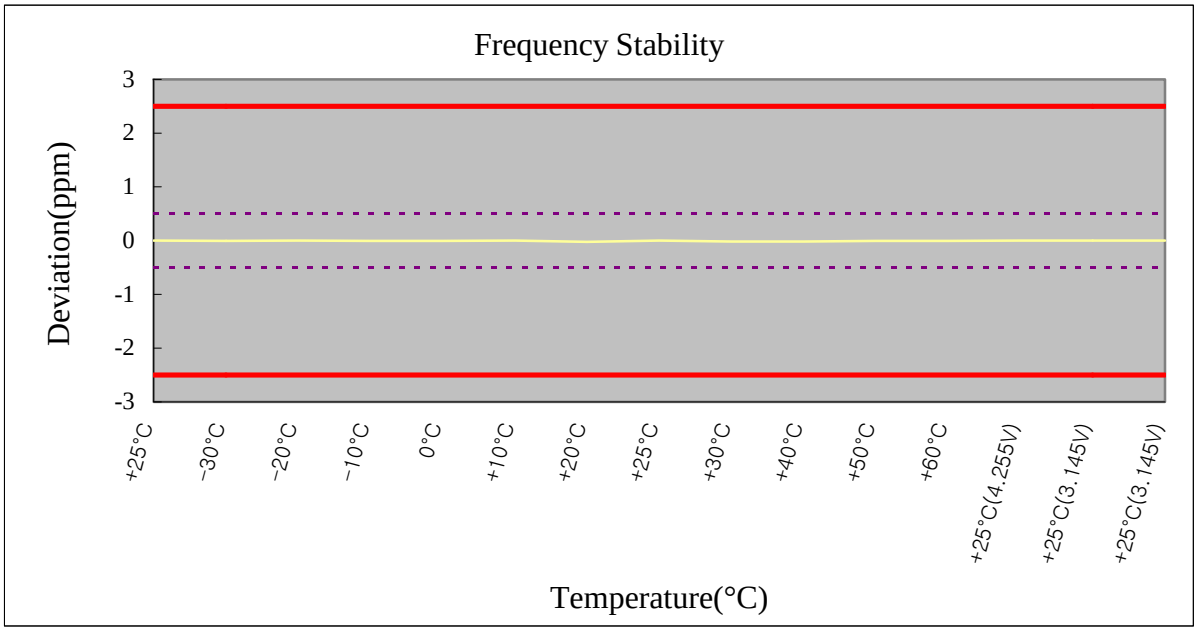
CHANNEL : 0661(Mid)

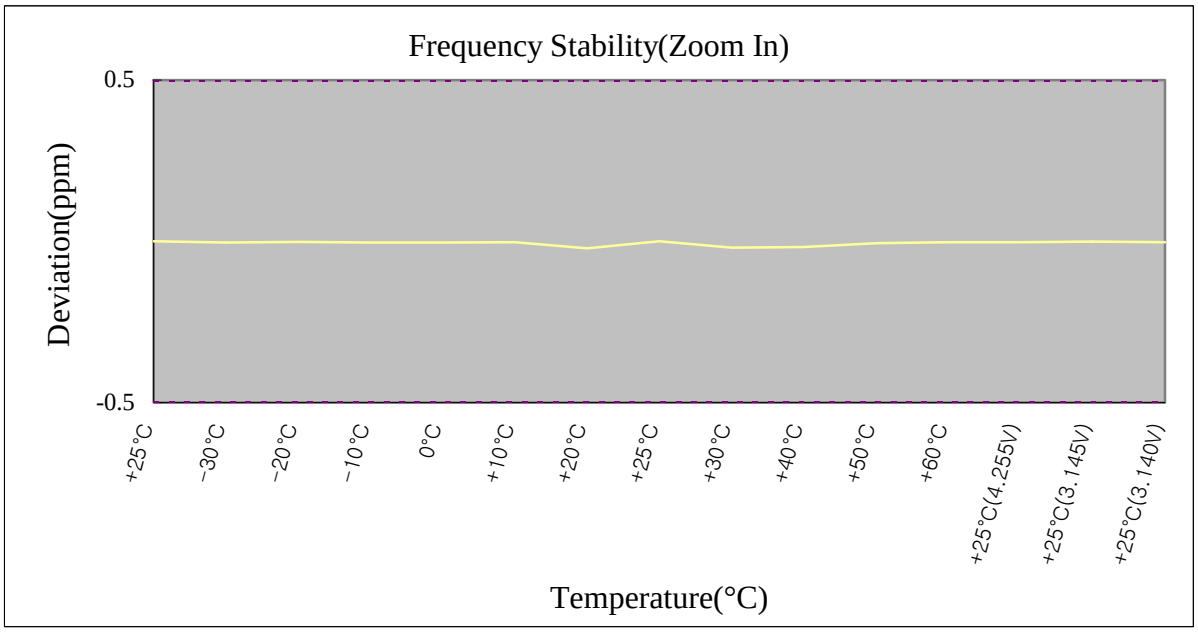
REFERENCE VOLTAGE : 3.7 VDC

DEVIATION LIMIT : ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (dB)	FREQ (Hz)	Deviation (%)
100%	3.7	+25(Ref)	1,880,000,021	0.000000
100%		-30	1,880,000,014	0.000000
100%		-20	1,880,000,017	0.000000
100%		-10	1,880,000,013	0.000000
100%		0	1,880,000,014	0.000000
100%		+10	1,880,000,016	0.000000
100%		+20	1,879,999,980	-0.000002
100%		+25	1,880,000,021	0.000000
100%		+30	1,879,999,983	-0.000002
100%		+40	1,879,999,987	-0.000002
100%		+50	1,880,000,009	-0.000001
100%		+60	1,880,000,015	0.000000
85%	3.145	+25	1,880,000,016	0.000000
115%	4.255	+25	1,880,000,019	0.000000
BATT.ENDPOINT	3.145	+25	1,880,000,016	0.000000

Frequency Stability (PCS1900) **(continued…)**





4. TEST EQUIPMENT

	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	S/N
01	Spectrum Analyzer	Agilent	E4440A	05/10/07	MY45304199
02	Spectrum Analyzer	H.P	8563E	06/10/07	3551A04634
03	Power Meter	H.P	EPM-442A	06/07/07	GB37170413
04	Power Sensor	H.P	8481A	14/07/07	3318A96332
05	Frequency Counter	H.P	5342A	15/09/07	2119A04450
06	Multifunction Synthesizer	H.P	8904A	12/10/07	3633A08404
07	Signal Generator	Rohde Schwarz	SMR20	21/03/08	101251
08	Signal Generator	H.P	E4421A	06/07/07	US37230529
09	Audio Analyzer	H.P	8903B	06/07/07	3011A0944B
10	Modulation Analyzer	H.P	8901B	10/07/07	3028A03029
11	Oscilloscope	Tektronix	TDS3052	01/10/07	B016821
12	8960 Series 10 Wireless Comms Test Set	Agilent	Z5515C	13/06/08	GB43461134
13	Universal Radio Communication Test	Rohde Schwarz	CMU200	21/03/08	107631
14	CDMA Mobile Station Test Set	H.P	8924C	15/09/07	US35360688
15	PCS Interface	HP	83236B	15/09/07	3711J03014
16	Multi system Ue Tester	Japan Radid Co., Ltd	NJZ-2000	20/11/07	ET00095
17	Power Splitter	WEINSCHEL	1593	14/10/07	332
18	BAND Reject Filter	Microwave Circuits	N0308372	19/10/07	3125-01DC0312
19	BAND Reject Filter	Wainwright	WRCG1750	19/10/07	SN2
20	AC Power supply	DAEKWANG	5KVA	20/03/08	N/A
21	DC Power Supply	H.P	6622A	20/03/08	465487
22	HORN ANT	EMCO	3115	24/07/07	6419
23	HORN ANT	EMCO	3115	21/08/07	21097
24	HORN ANT	A.H.Systems	SAS-574	16/08/07	154
25	HORN ANT	A.H.Systems	SAS-574	16/08/07	155
26	Dipole Antenna	Schwarzbeck	VHA9103	18/11/07	2116
27	Dipole Antenna	Schwarzbeck	VHA9103	18/11/07	2117
28	Dipole Antenna	Schwarzbeck	UHA9105	18/11/07	2261
29	Dipole Antenna	Schwarzbeck	UHA9105	18/11/07	2262
30	Loop Antenna	ETS	6502	22/11/07	3471

4. TEST EQUIPMENT (CONTINUED)

	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	S/N
31	TEMP & HUMIDITY Chamber	JISCO	J-RHC2	13/09/07	021031
32	RFI/FIELD Intensity Meter	Kyorits	KNM-504D	21/07/07	4N-161-4
33	EMI TEST RECEIVER	R&S	ESCI	28/04/08	100364
34	EMI TEST RECEIVER	R&S	ESU	25/01/08	100014
35	Frequency Converter	Kyorits	KCV-604C	21/07/07	4-230-3
36	Log Periodic Antenna	Schwarzbeck	UHALP9108A1	26/09/07	1098
37	Biconical Antenna	Schwarzbeck	VHA9103	12/09/07	2233
38	Digital Multimeter	H.P	34401A	20/03/08	3146A13475
39	Attenuator (10dB)	WEINSCHEL	23-10-34	17/10/07	BP4386
40	High-Pass Filter	ANRITSU	MP526	13/10/07	M27756
41	Attenuator (3dB)	Agilent	8491B	10/07/07	58177
42	Attenuator (10dB)	WEINSCHEL	23-10-34	26/01/08	BP4387
43	Attenuator (30dB)	H.P	8498A	17/10/07	50101
44	Amplifier (25dB)	Agilent	8447D	12/04/08	2944A10144
45	Amplifier (30dB)	Agilent	8449B	13/10/07	3008A01590
46	Position Controller	TOKIN	5901T	N/A	14173
47	Driver	TOKIN	5902T2	N/A	14174
48	Spectrum Analyzer	Agilent	8594E	04/11/07	3649A05889
49	RFI/FIELD Intensity Meter	Kyorits	KNW-2402	11/07/07	4N-170-3
50	LISN	Kyorits	KNW-407	19/08/07	8-317-8
51	LISN	Kyorits	KNW-242	09/10/07	8-654-15
52	CVCF	NF Electronic	4400	N/A	344536 4420064
53	Software	ToYo EMI	EP5/RE	N/A	Ver 2.0.800
54	Software	ToYo EMI	EP5/CE	N/A	Ver 2.0.801
55	Software	AUDIX	e3	N/A	Ver 3.0
56	Software	Agilent	Benchlink	N/A	A.01.09 021211

5. EMISSION DESIGNATOR

GSM850

Emission Designator = 251KGXW

GSM BW = 251.0219 KHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

PCS1900

Emission Designator = 253KGXW

GSM BW = 253.3586 KHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

6. CONCLUSION

The data collected shows that the **Telian Corporation.** Dual band GPRS Terminal with Bluetooth Equipment **FCC ID: NPQI170** complies with all the requirements of Parts 2, 22 and 24 of the FCC rules.

