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<http://www.digitalemc.com>

**CERTIFICATE OF COMPLIANCE
 FCC Part 22 & 24 Certification**

Dates of Tests: June 29 ~ July 03, 2009
 Test Report S/N:DR50110907K
 Test Site : DIGITAL EMC CO., LTD.

FCC ID.

XKH-MCG-W160

APPLICANT

MOBILE CREATE Inc.

Classification : Licensed Non-Broadcast Station Transmitter(PCB)
FCC Rule Part(s) : §22(H), §24(E), §2
EUT Type : Personal Wireless Mobile Camera
Model name : MCG-W160
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 : GSM850 - 1.758W ERP
: PCS1900 - 0.791W EIRP
Date of Issue : July 08, 2009

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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: MOBILE CREATE Inc.

Address: A-Dong 606, Woolim Lions Valley, 371-28, Gasan-dong, Geumcheon-gu, Seoul, Korea

Attention: Se-yeon Kim

- FCC ID: XKH-MCG-W160
- Quantity: The mass 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: GSM850 - 1.758W ERP
PCS1900 - 0.791W EIRP
- FCC Classification(s): Licensed Non-Broadcast Station Transmitter(PCB)
- Equipment (EUT) Type: Personal Wireless Mobile Camera
- Modulation(s): GMSK
- Frequency Tolerance: ± 0.00025 % (2.5ppm)
- FCC Rule Part(s): §22(H), §24(E), §2
- Dates of Tests: June 29 ~ July 03, 2009
- Place of Tests: DIGITAL EMC
- Test Report S/N: DR50110907K

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: harveysung@digitalemc.com

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”.

Tested by: Engineer

July 08, 2009

D.C.Cha



Data

Name

Signature

Reviewed By: Director

July 08, 2009

Harvey Sung



Data

Name

Signature

Ordering party:

Company name : MOBILE CREATE Inc.

Address : A-Dong 606, Woolim Lions Valley, 371-28, Gasan-dong, Geumcheon-gu

City/town : Seoul

Country : Korea

Date of order : June 09, 2009

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 : **XKH-MCG-W160**
 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:

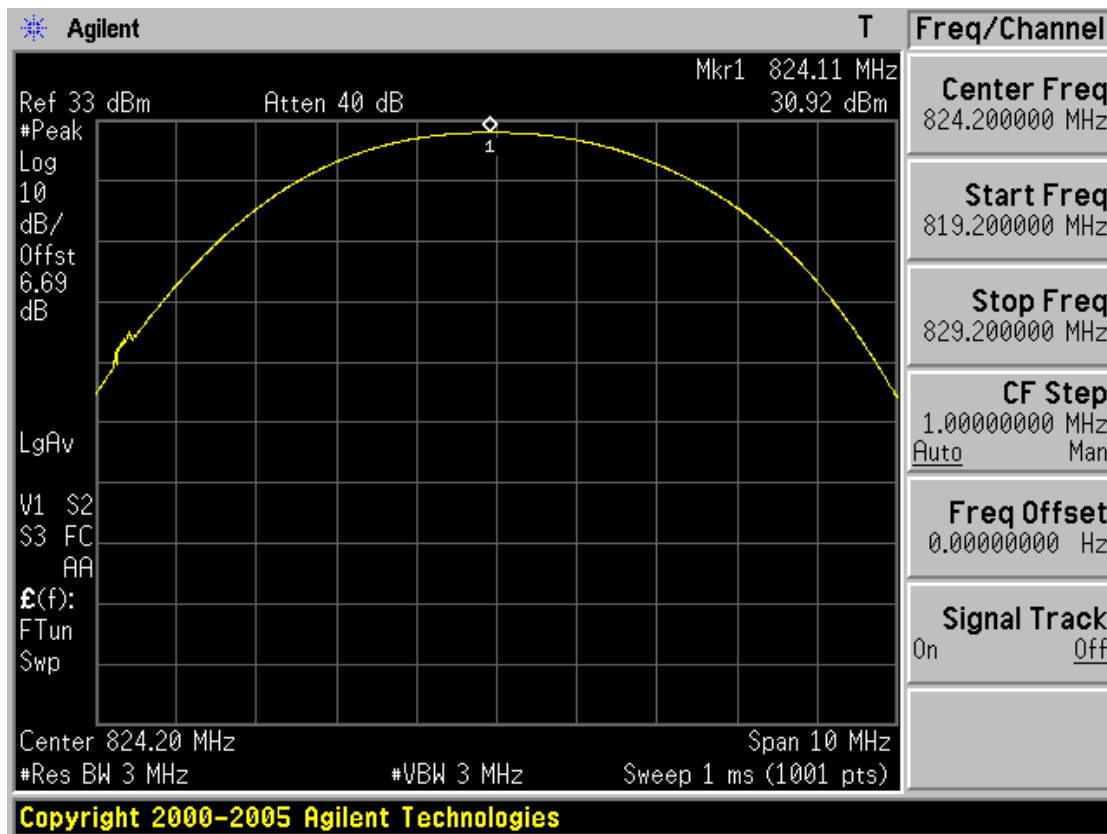
GSM850

Channel	Frequency (MHz)	TEST CONDITIONS	Power Step: 5
		(dBm)	
128	824.2	30.92	
190	836.6	31.22	
251	848.8	31.49	

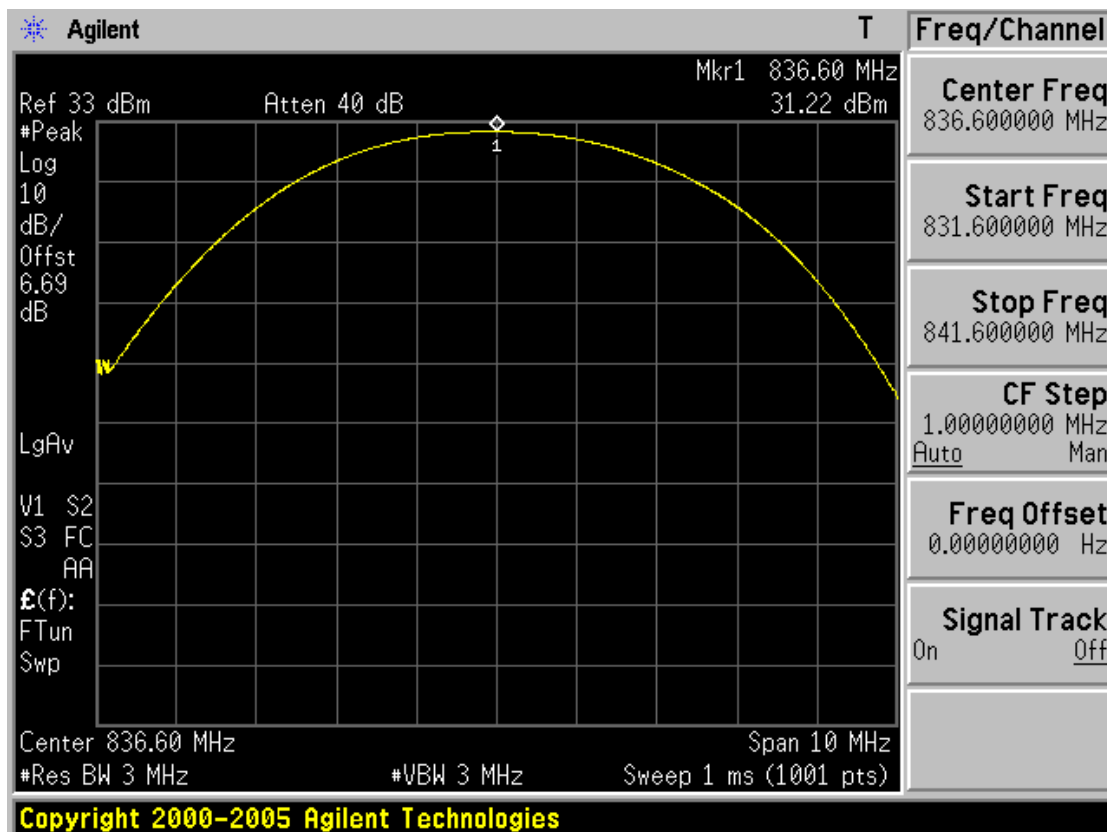
PCS1900

Channel	Frequency (MHz)	TEST CONDITIONS	Power Step: 0
		(dBm)	
512	1850.2	29.76	
661	1880.0	29.39	
810	1909.8	29.01	

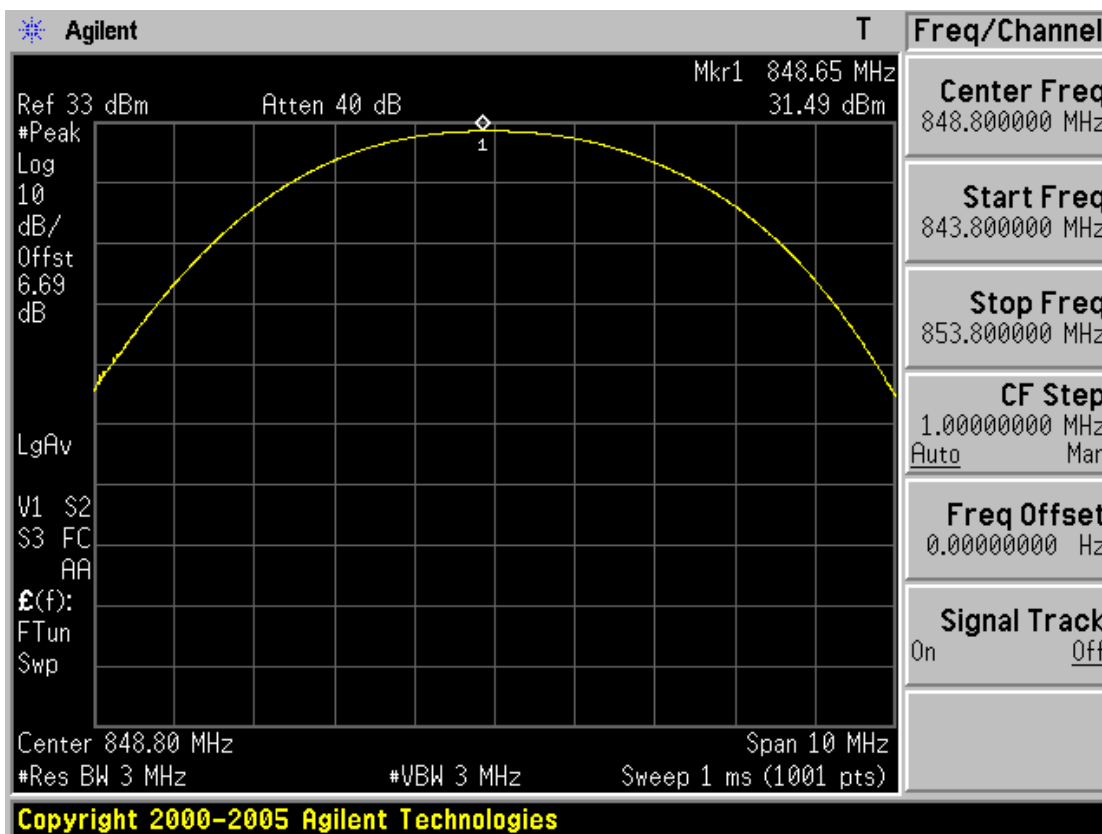
POWER OUT. GSM850 Ch.128



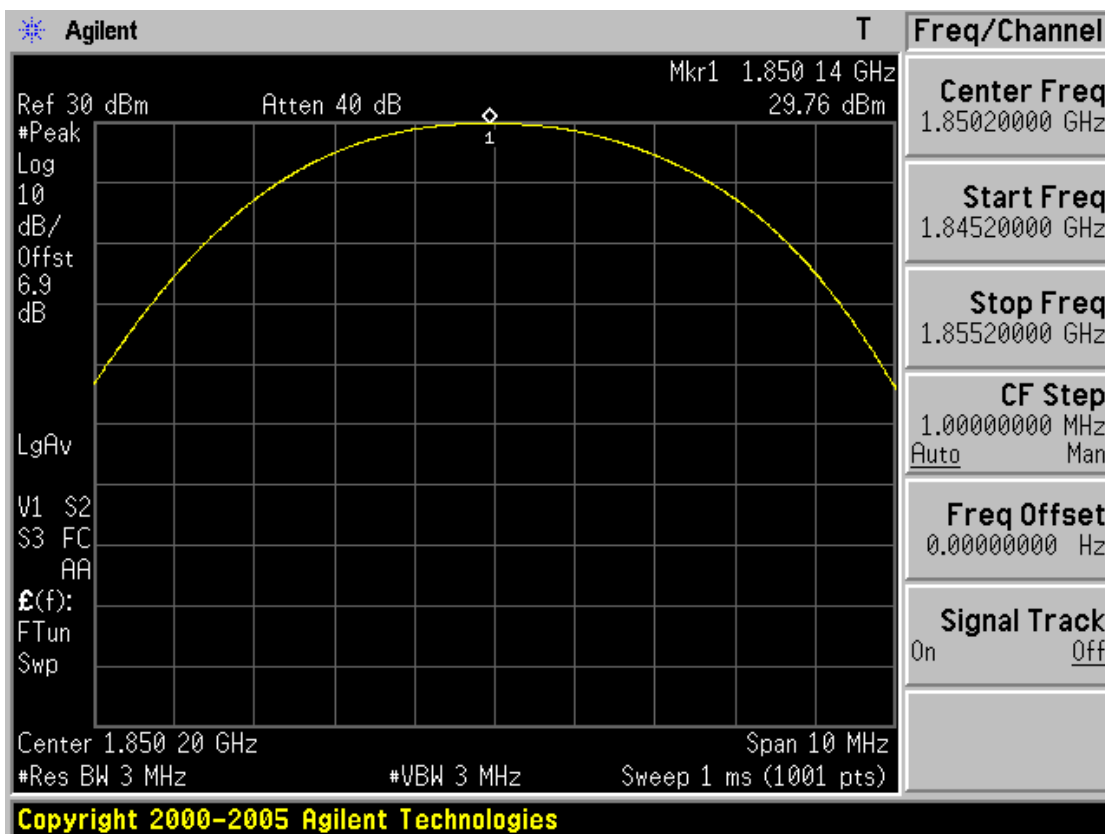
POWER OUT. GSM850 Ch.190



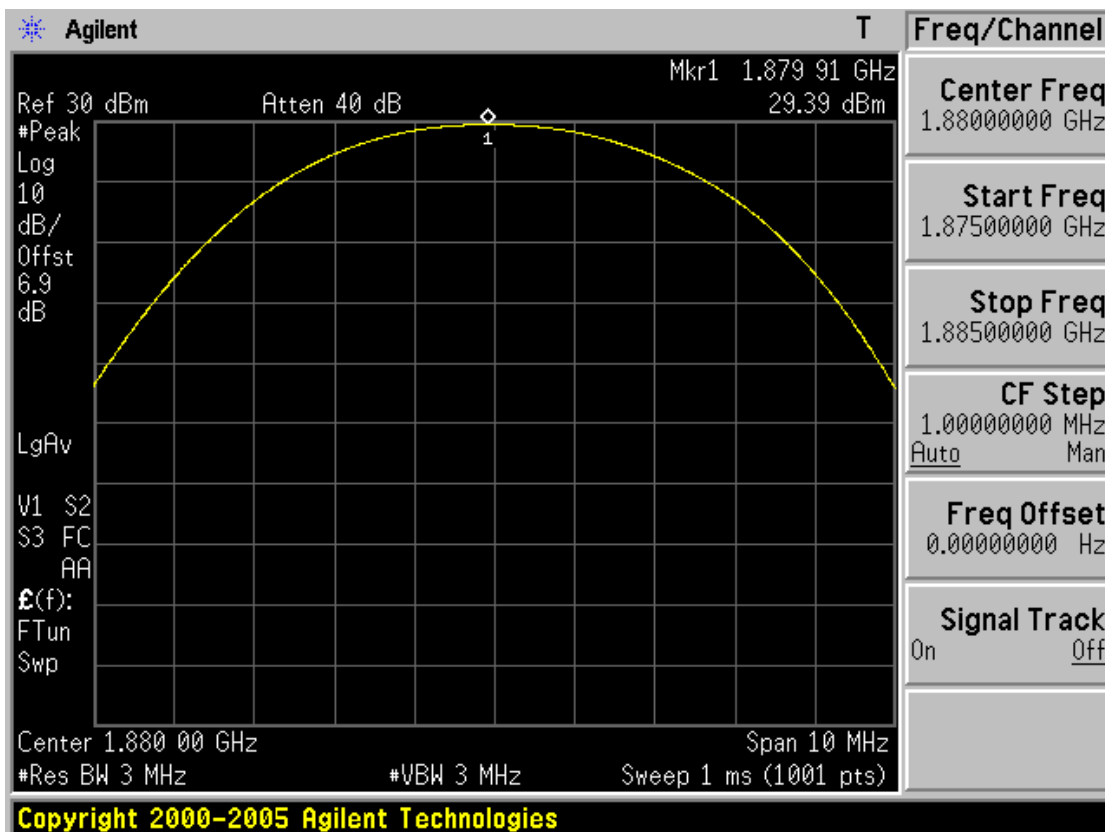
POWER OUT. GSM850 Ch.251



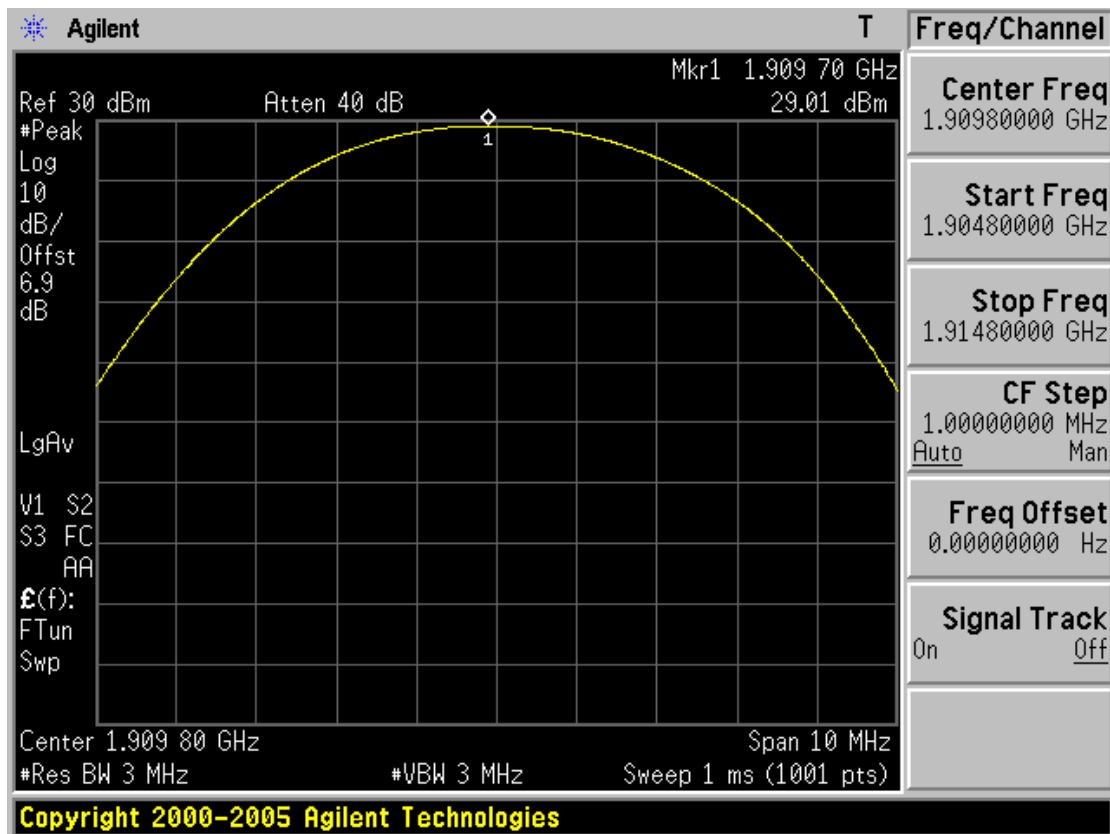
POWER OUT. PCS1900 Ch.512



POWER OUT. PCS1900 Ch.661



POWER OUT. PCS1900 Ch.810



ERP (GSM850)

FCC ID : **XKH-MCG-W160**
 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	Note.
128	824.2	-5.62	H	31.99	1.581	Battery	-
190	836.6	-5.45	H	31.85	1.531	Battery	-
251	848.8	-5.59	H	32.45	1.758	Battery	-

EIRP (PCS1900)

FCC ID : **XKH-MCG-W160**
 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						Note
		Ref. level (dBm)	Pol. (H/V)	ANT GAIN	EIRP (dBm)	EIRP (W)	Power Supply	
512	1850.2	-11.76	H	8.29	27.56	0.570	Battery	-
661	1880.0	-11.24	H	8.37	28.98	0.791	Battery	-
810	1909.8	-12.27	H	8.44	27.22	0.527	Battery	-

3.3 Occupied Bandwidth

FCC ID : **XKH-MCG-W160**
 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,

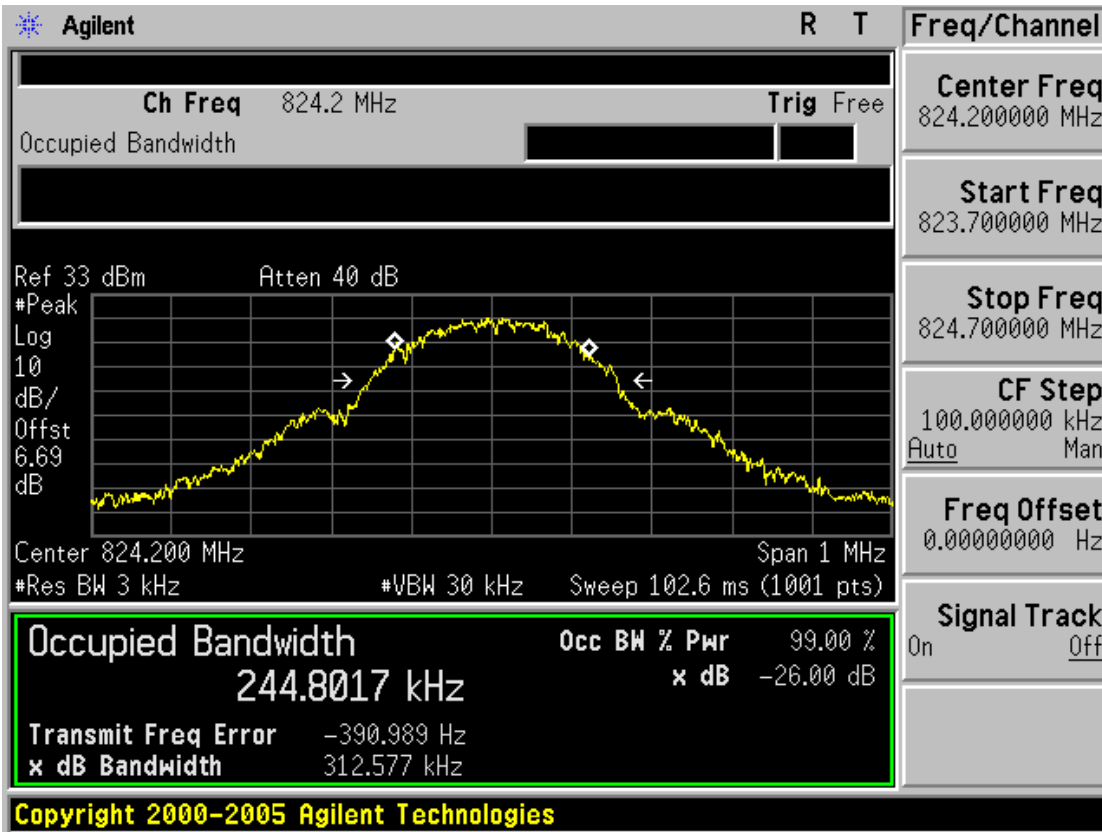
Channel	Frequency (MHz)	99% Bandwidth
		(kHz)
128	824.2	244.8017
190	836.6	246.8909
251	848.8	243.8021

PCS1900

Channel	Frequency (MHz)	99% Bandwidth
		(kHz)
512	1850.2	244.4270
661	1880.0	245.4582
810	1909.8	245.0586

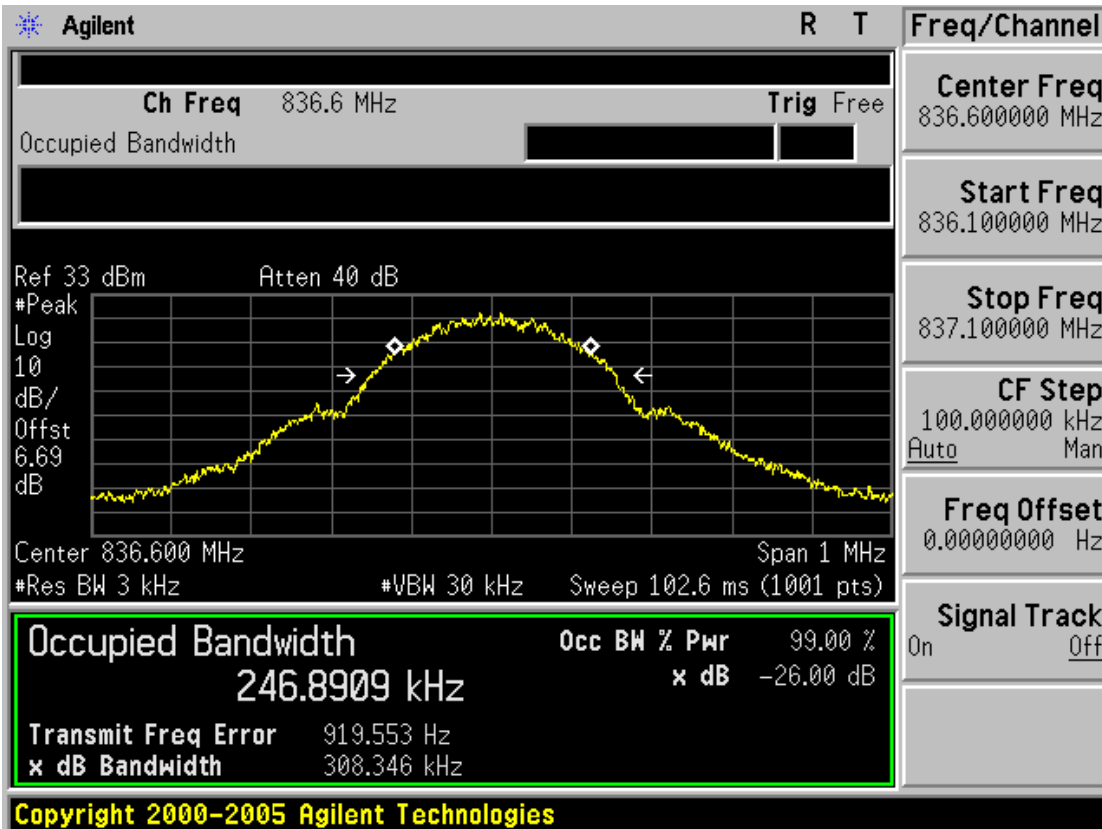
GSM850

99 % Bandwidth Ch. 128



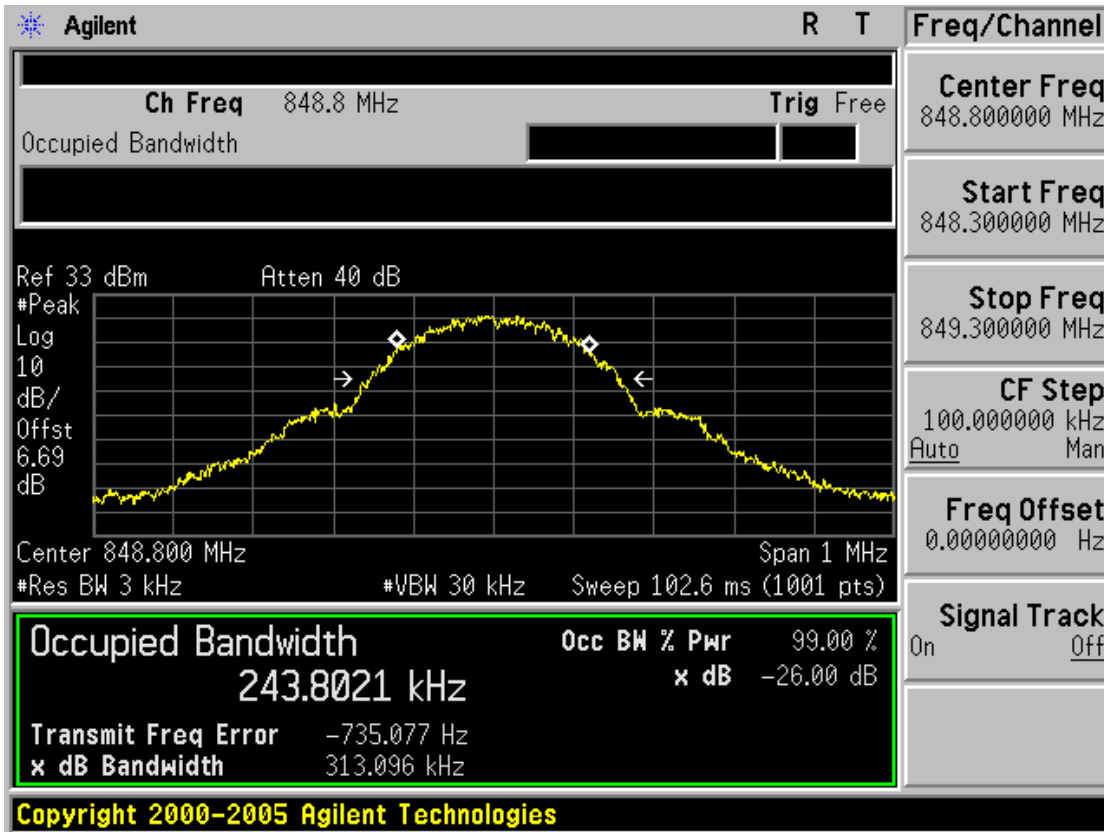
GSM850

99 % Bandwidth Ch. 190



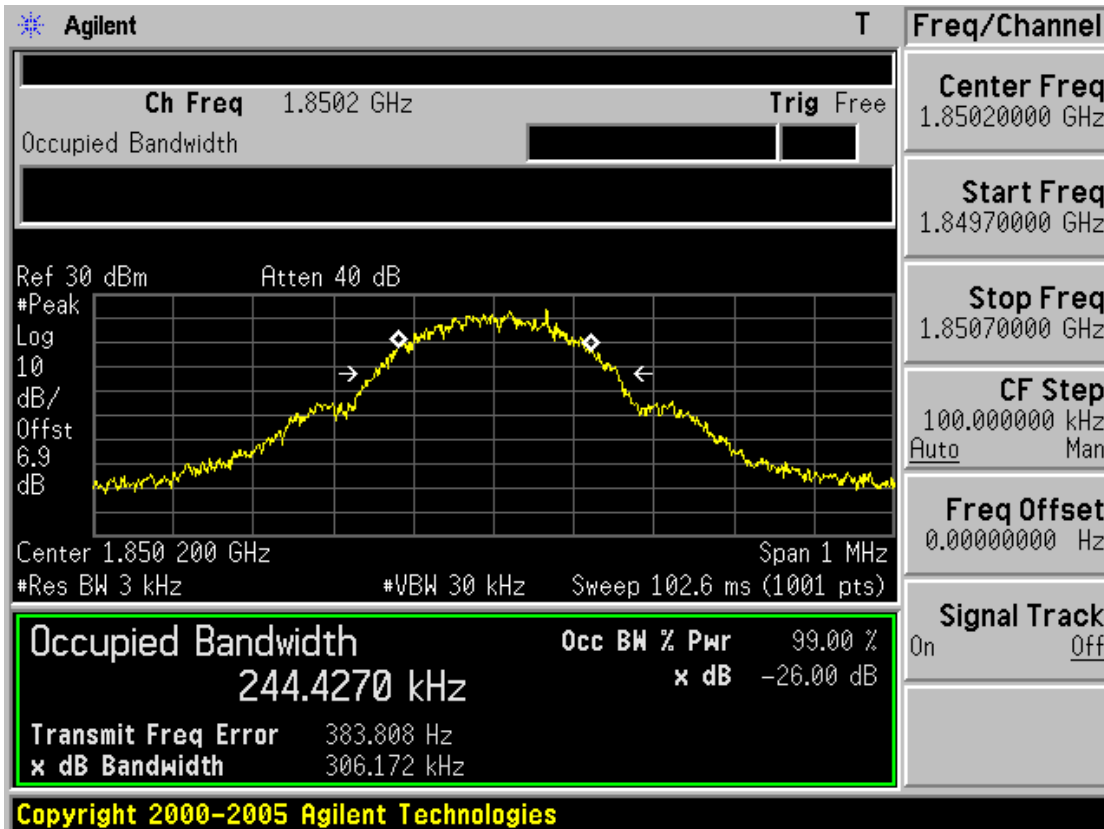
GSM850

99 % Bandwidth Ch. 251



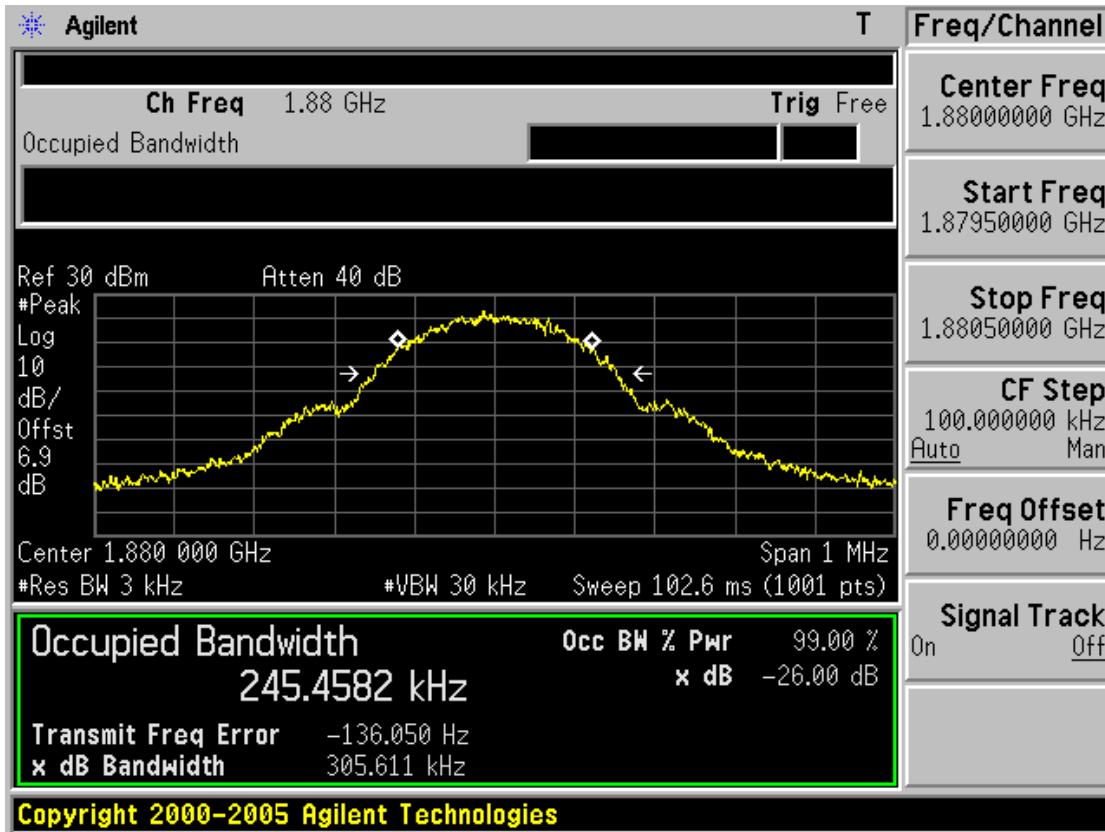
PCS1900

99 % Bandwidth Ch. 512



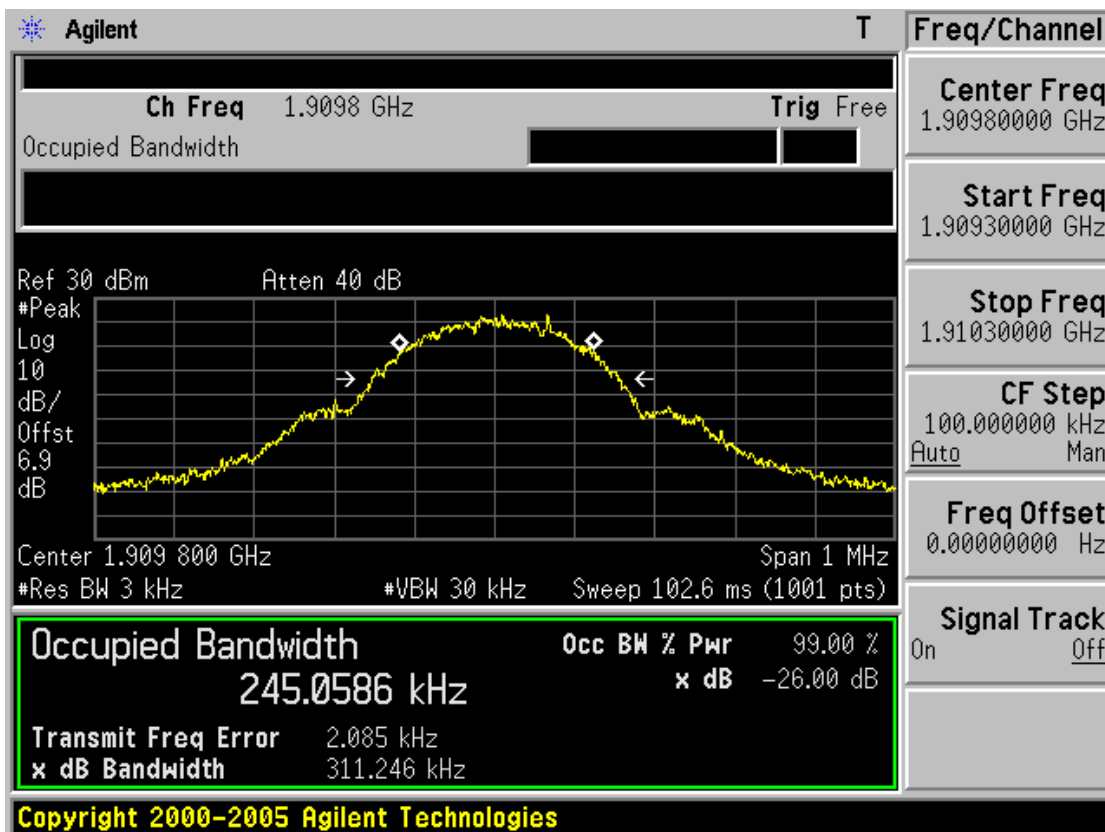
PCS1900

99 % Bandwidth Ch. 661



PCS1900

99 % Bandwidth Ch. 810



3.4 Occupied Bandwidth Emission Limit

FCC ID : **XKH-MCG-W160**
 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 1MHz or greater. However, in the 1MHz 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

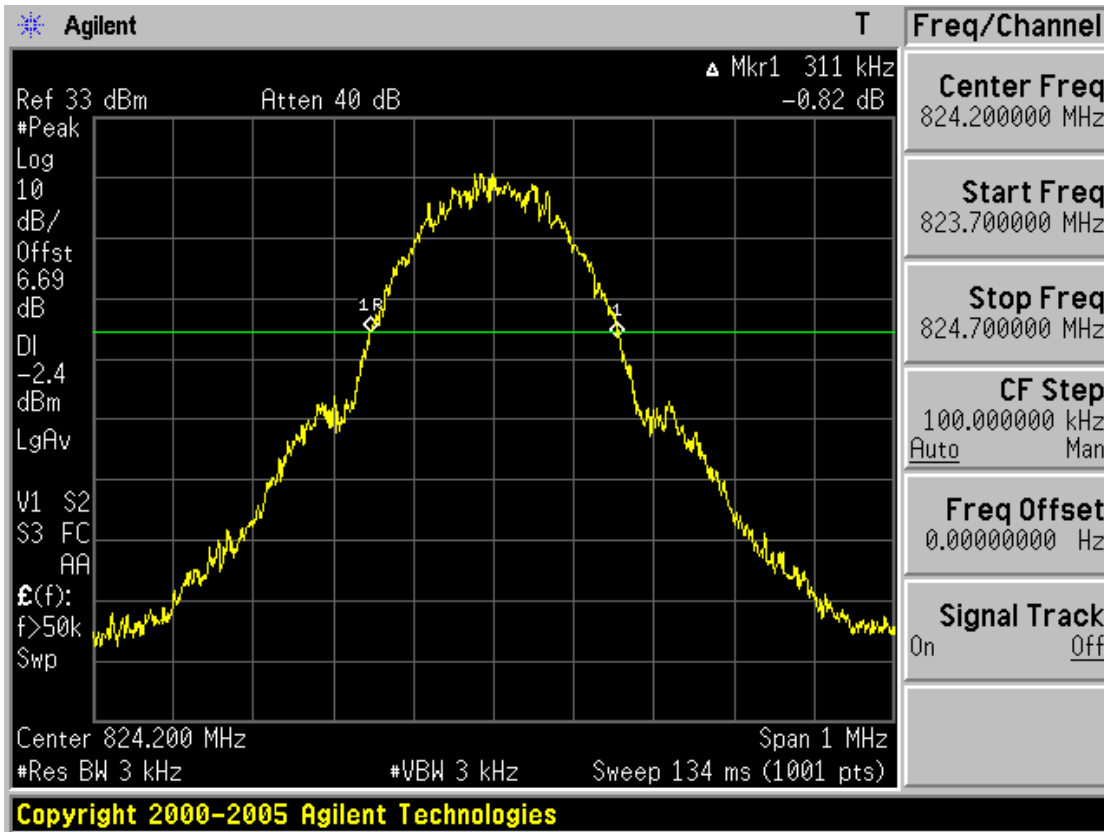
Channel	Frequency (MHz)	-26dBc Bandwidth
		(kHz)
128	824.2	311
190	836.6	306
251	848.8	311

PCS1900

Channel	Frequency (MHz)	-26dBc Bandwidth
		(kHz)
512	1850.2	314
661	1880.0	319
810	1909.8	311

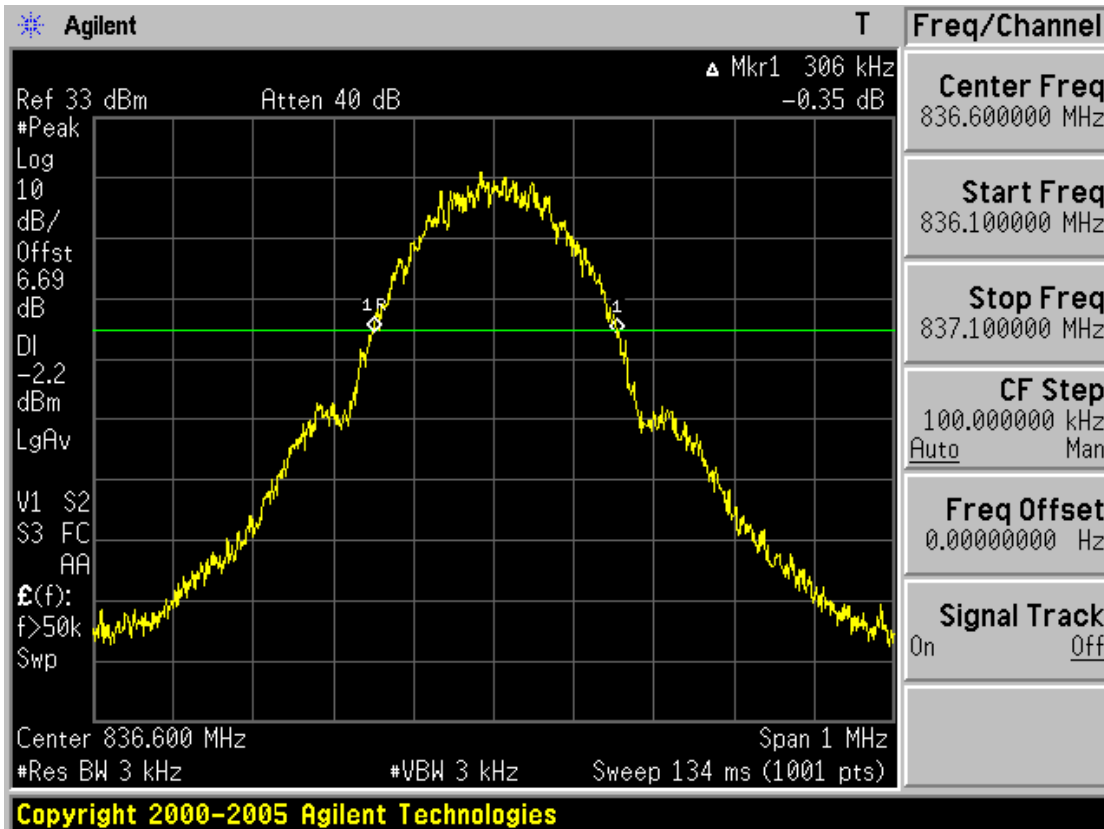
GSM850

-26dBc Bandwidth Ch. 128



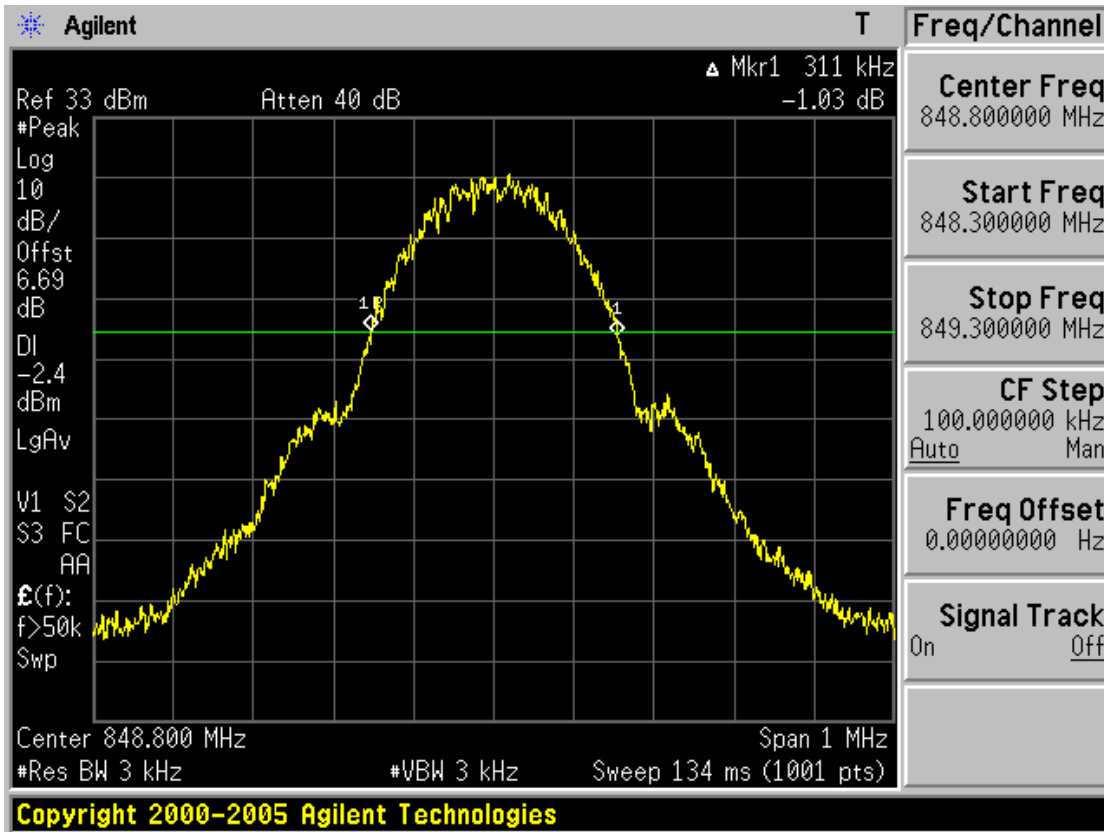
GSM850

-26dBc Bandwidth Ch. 190



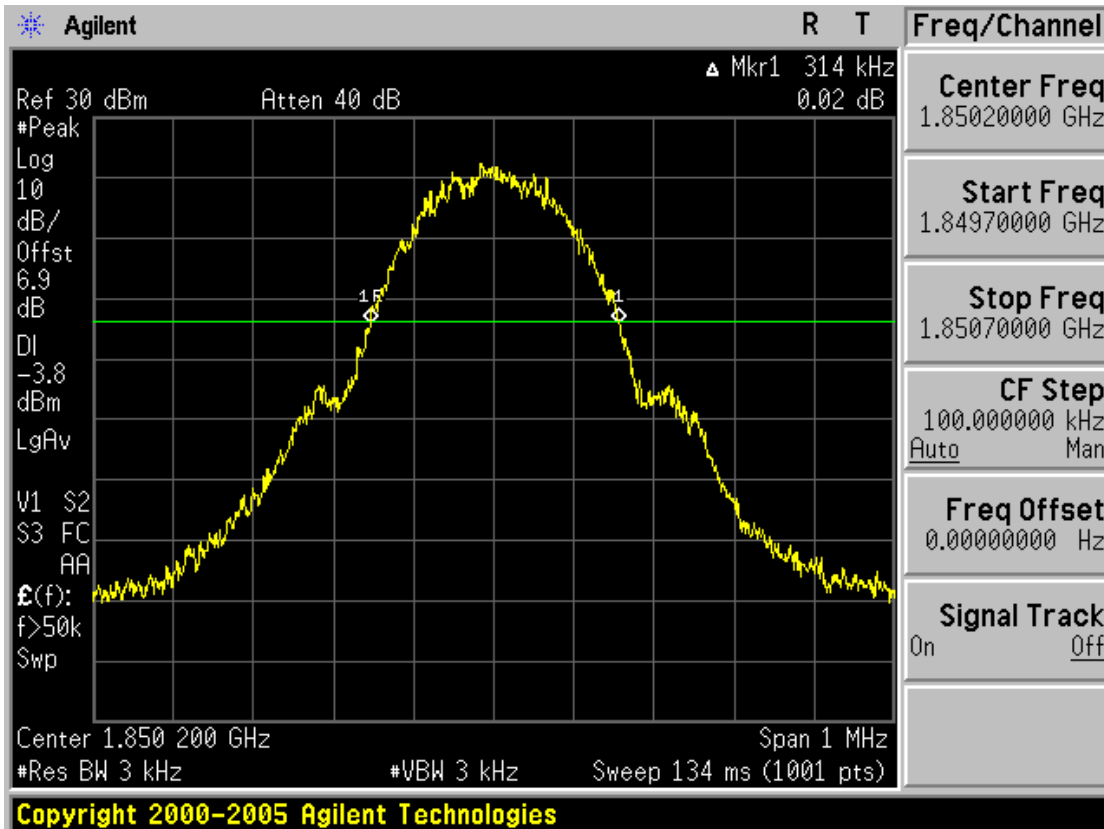
GSM850

-26dBc Bandwidth Ch. 251



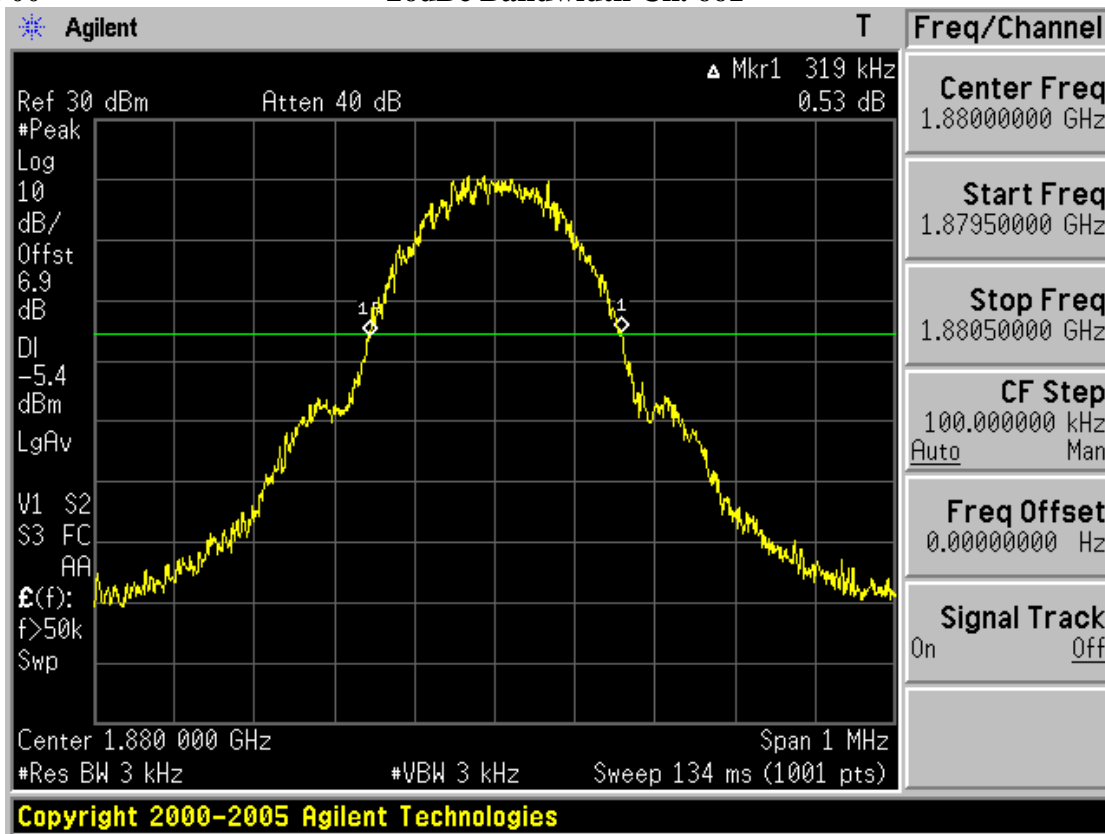
PCS1900

-26dBc Bandwidth Ch. 512



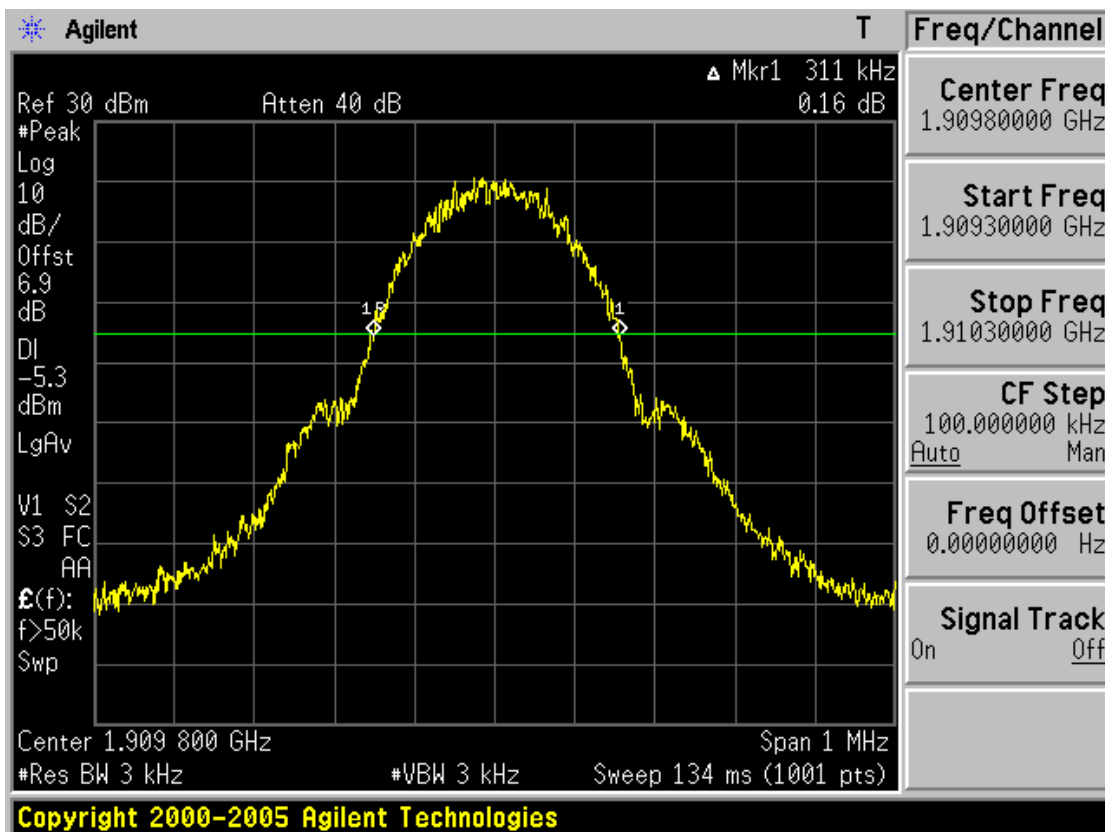
PCS1900

-26dBc Bandwidth Ch. 661



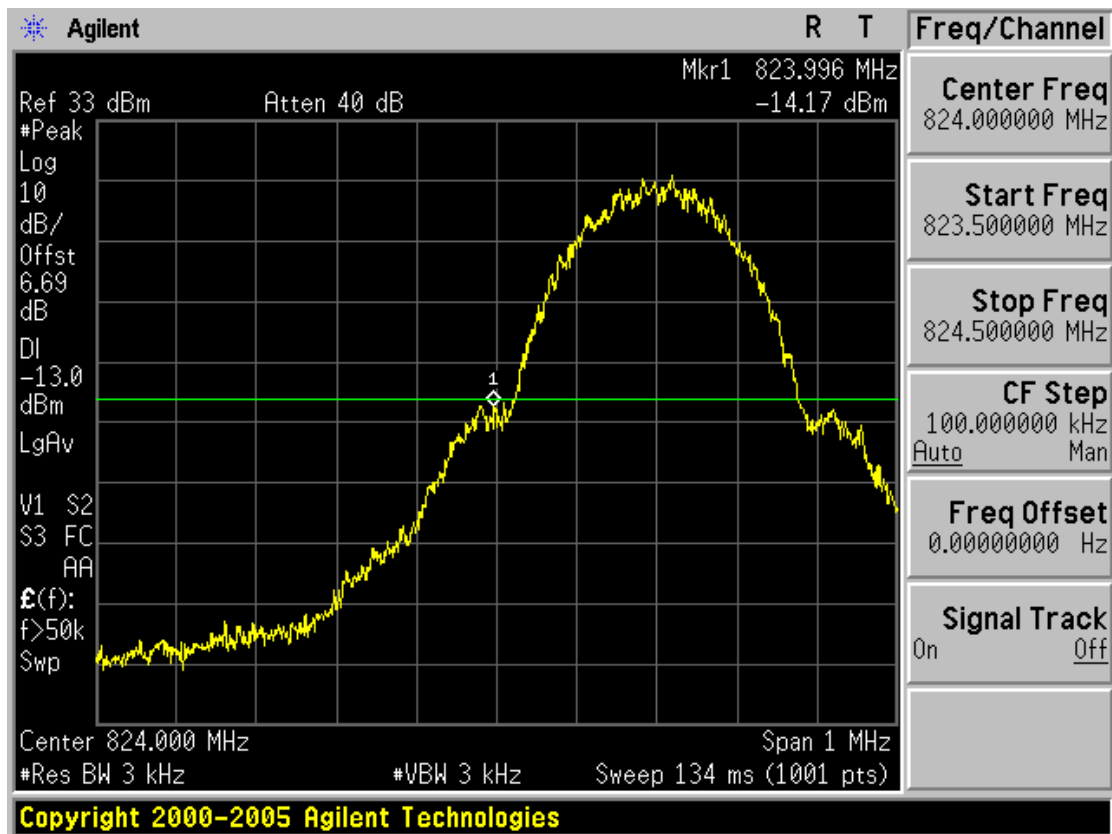
PCS1900

-26dBc Bandwidth Ch. 810



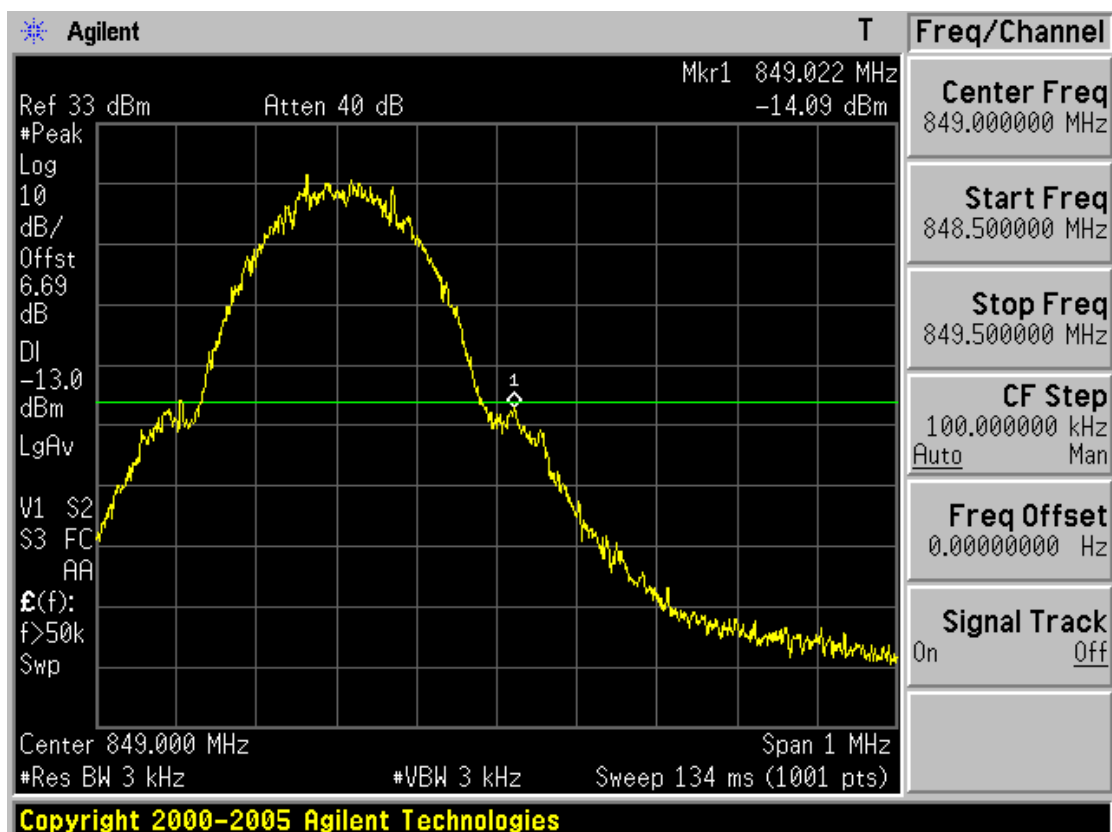
GSM850

Band Edge Ch. 128



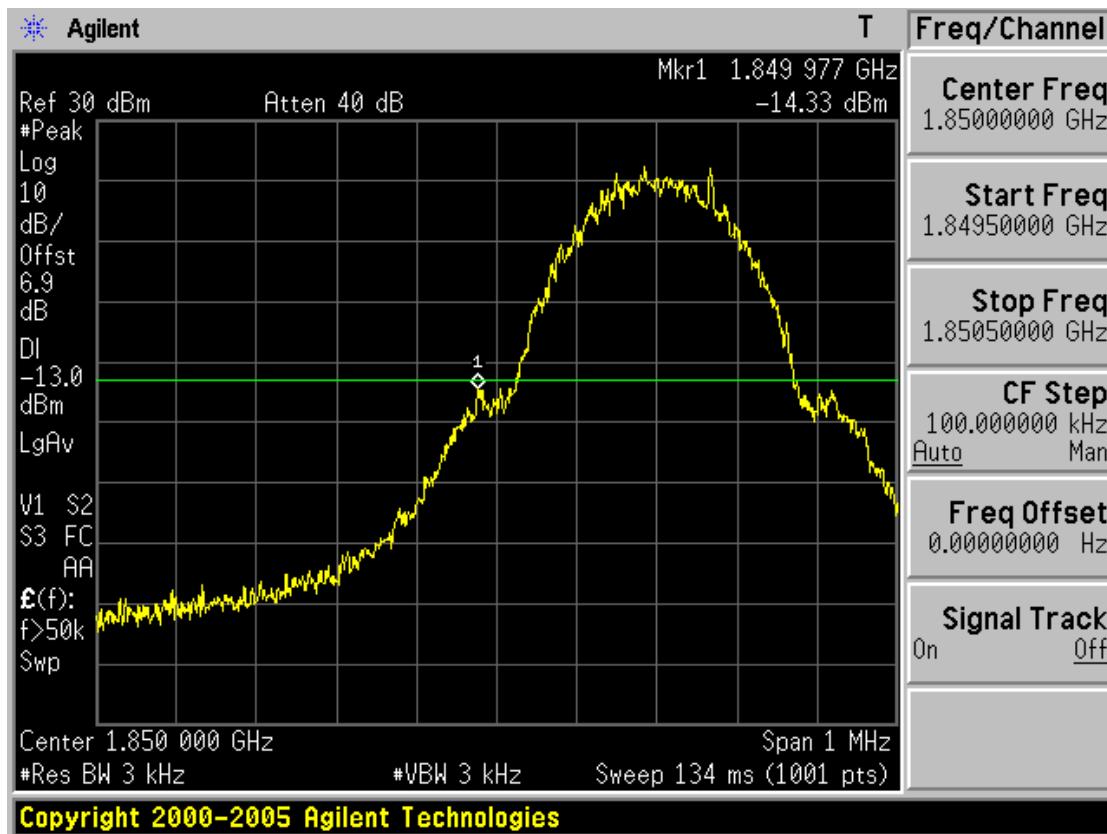
GSM850

Band Edge Ch. 251



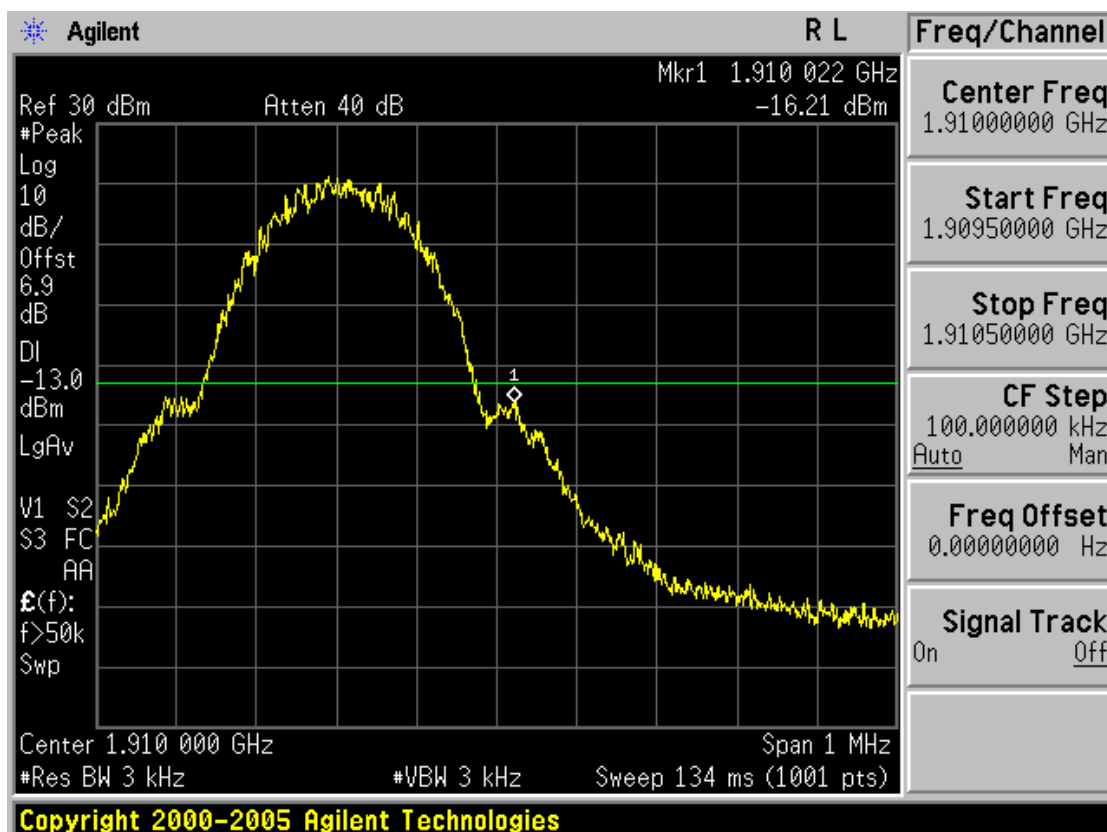
PCS1900

Band Edge Ch. 512



PCS1900

Band Edge Ch. 810



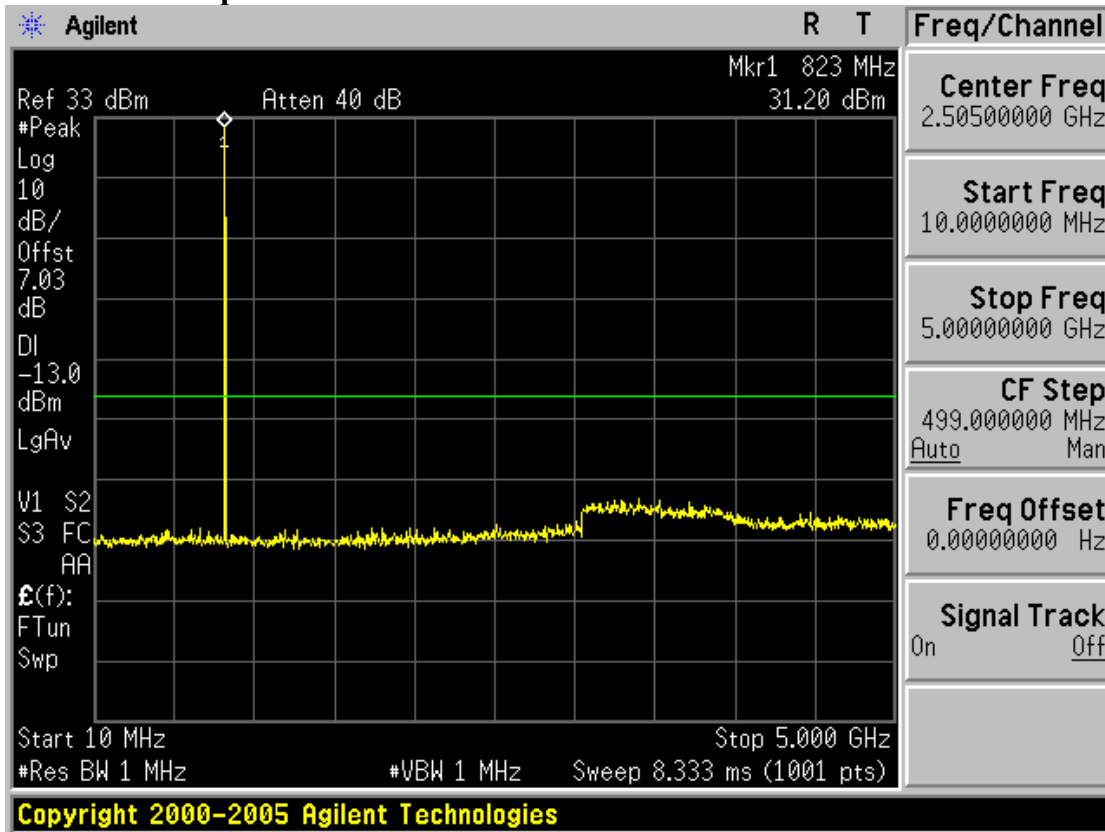
3.5 Spurious and Harmonic Emissions at Antenna Terminal

FCC ID	:	XKH-MCG-W160
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

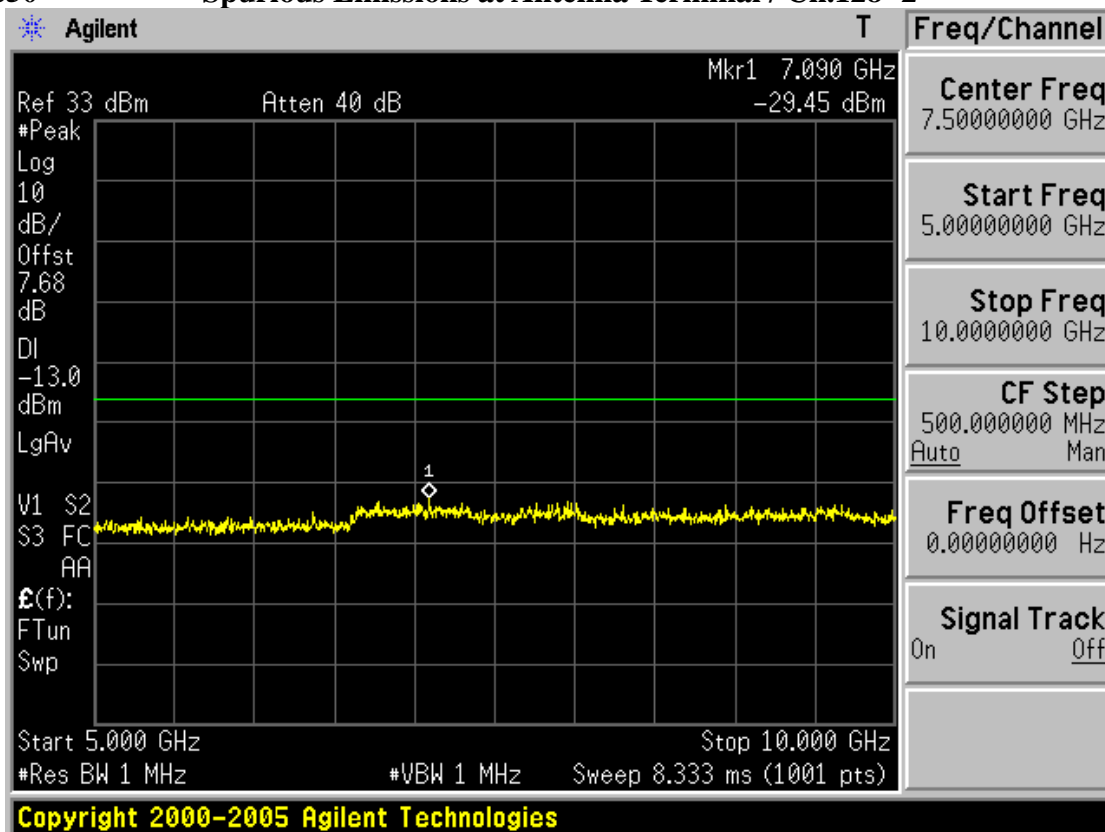
Measurement Procedure:

- 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.

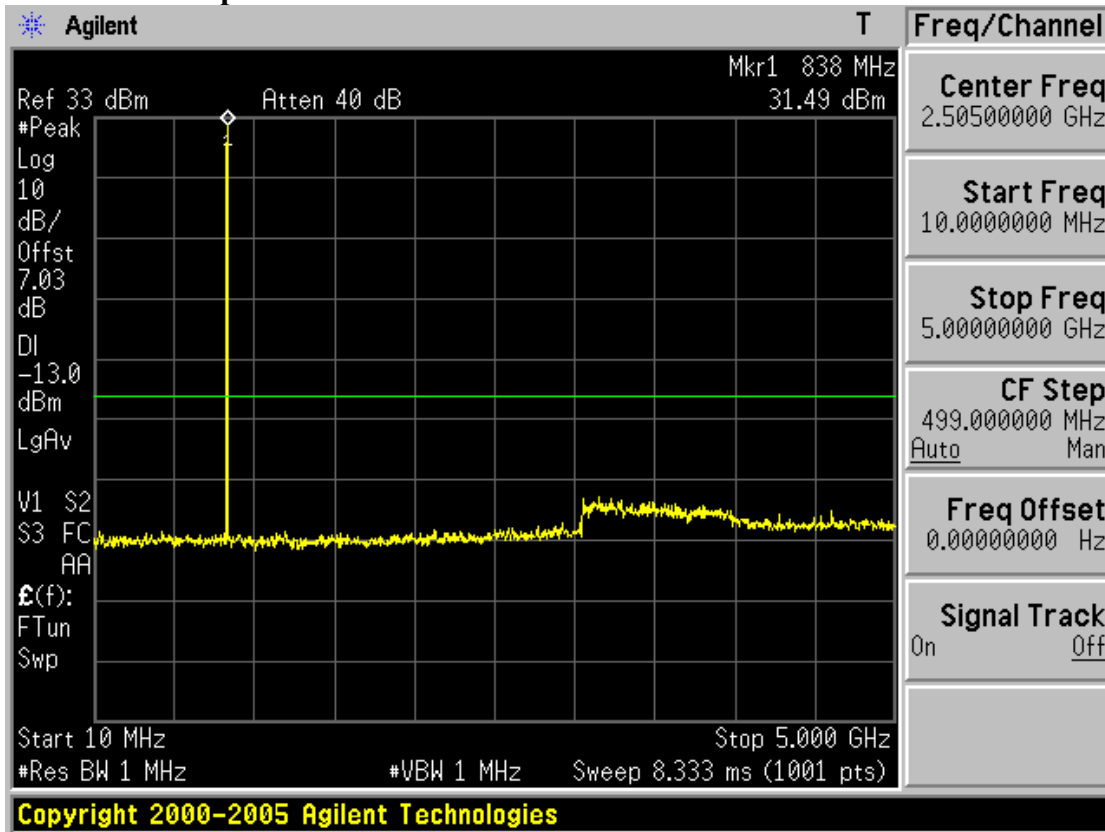
GSM850 Spurious Emissions at Antenna Terminal / Ch.128 -1



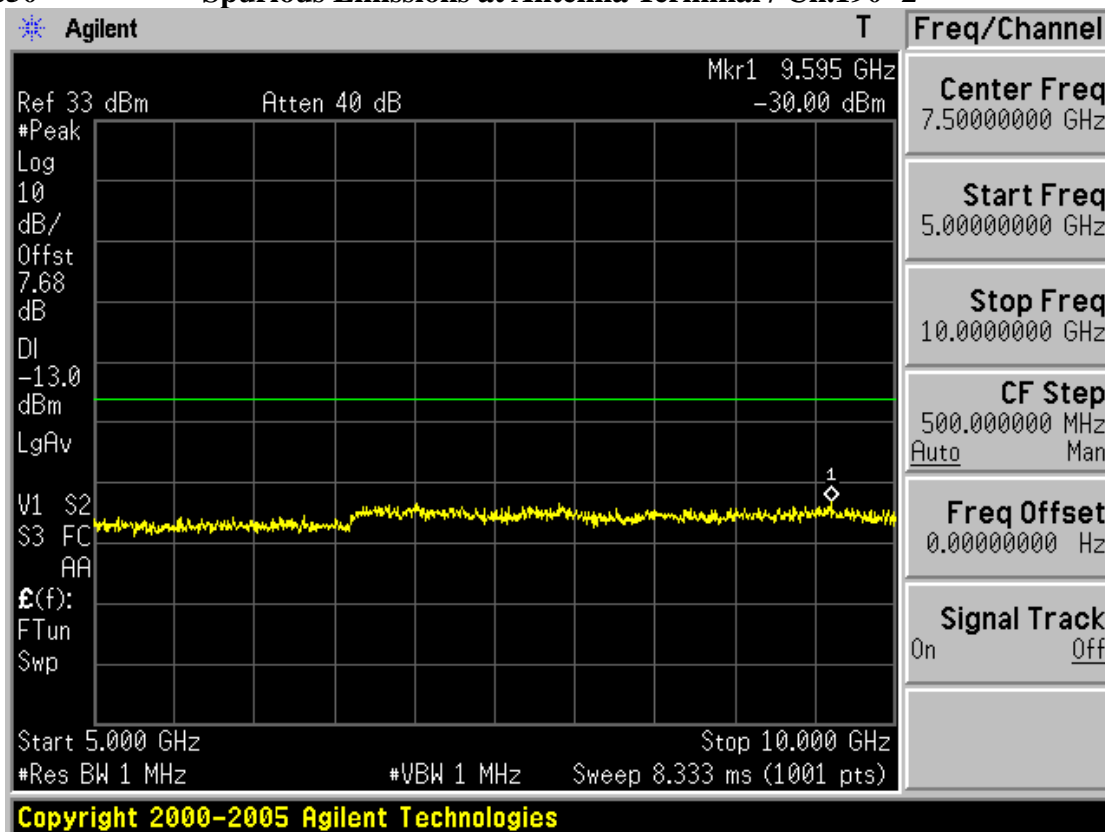
GSM850 Spurious Emissions at Antenna Terminal / Ch.128 -2



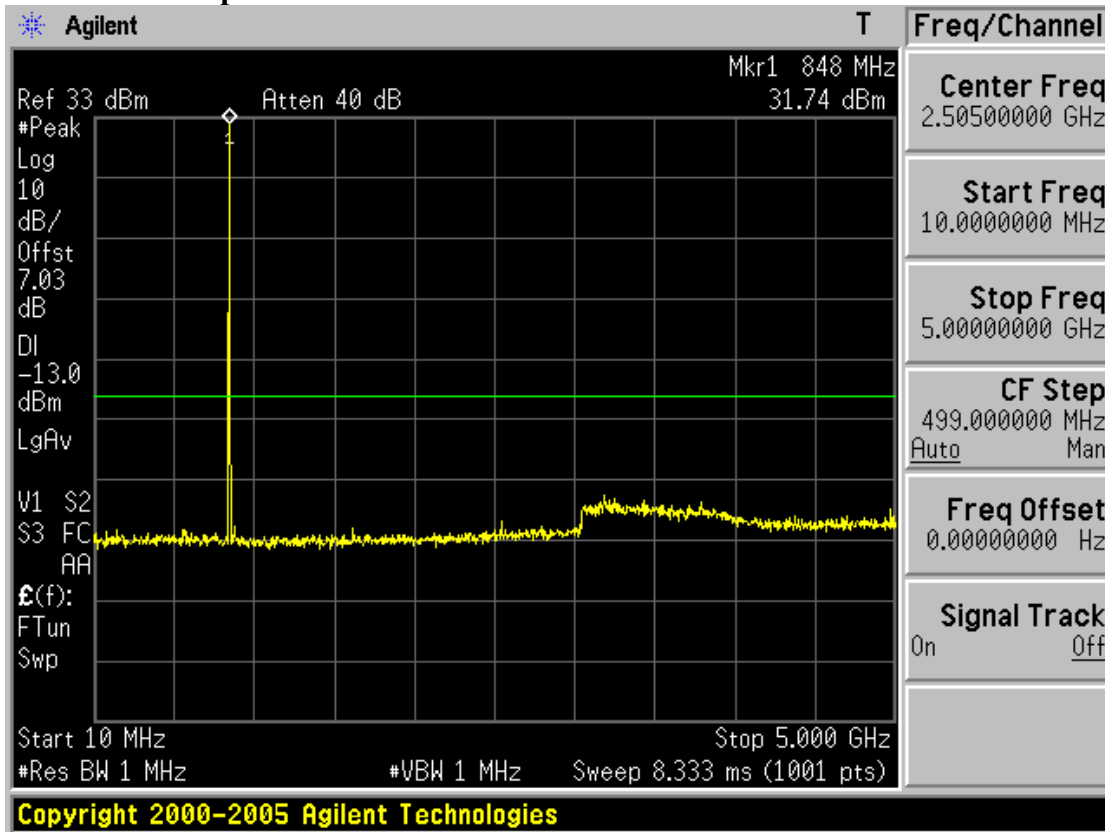
GSM850 Spurious Emissions at Antenna Terminal / Ch.190 -1



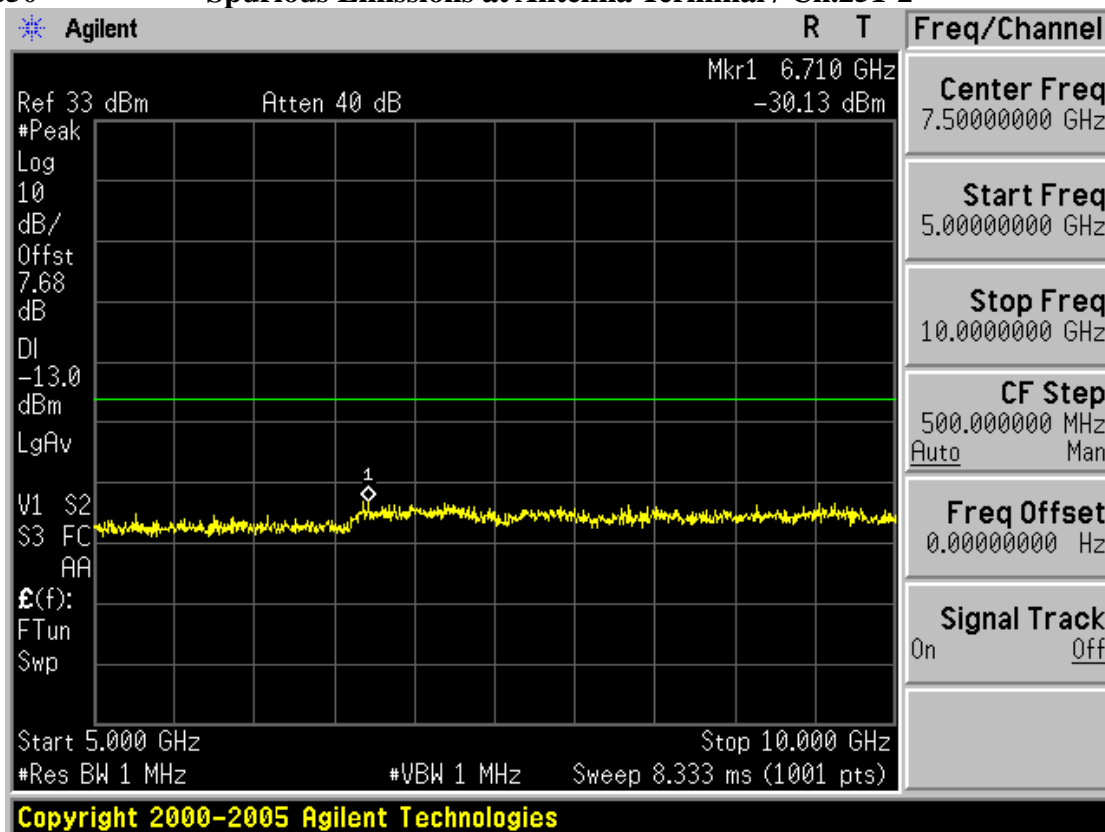
GSM850 Spurious Emissions at Antenna Terminal / Ch.190 -2



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

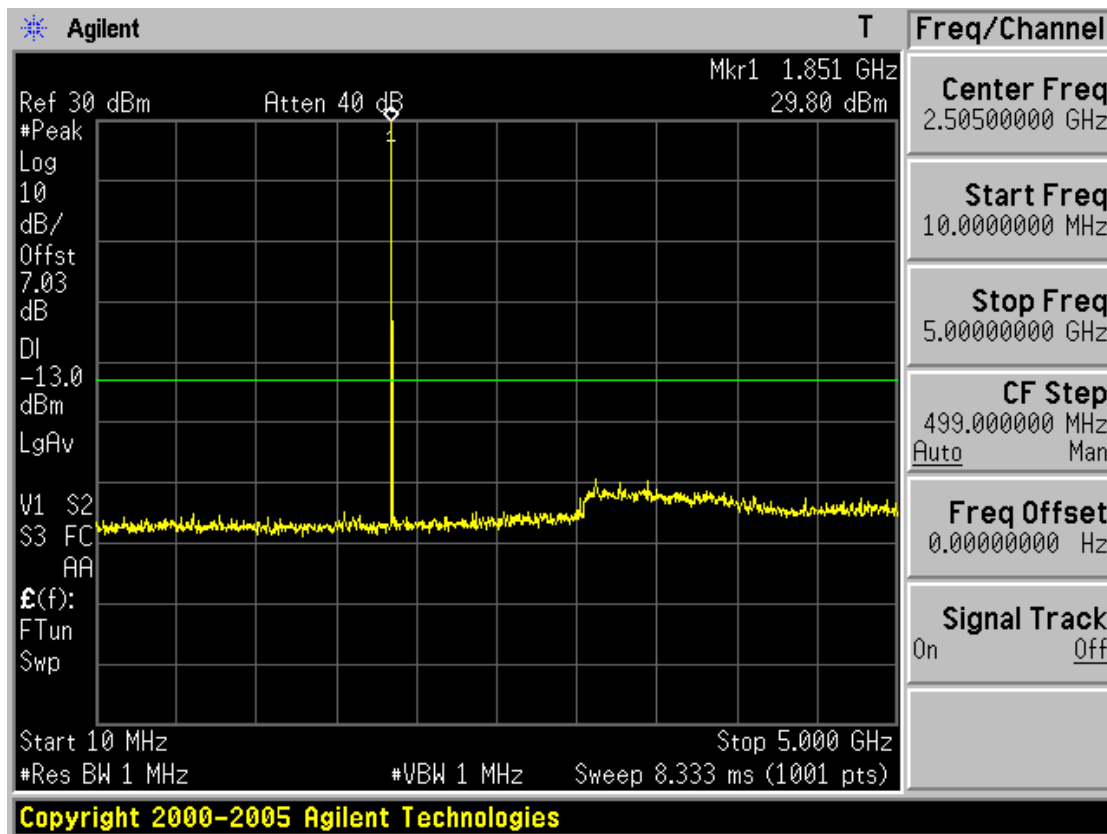


GSM850 Spurious Emissions at Antenna Terminal / Ch.251-2



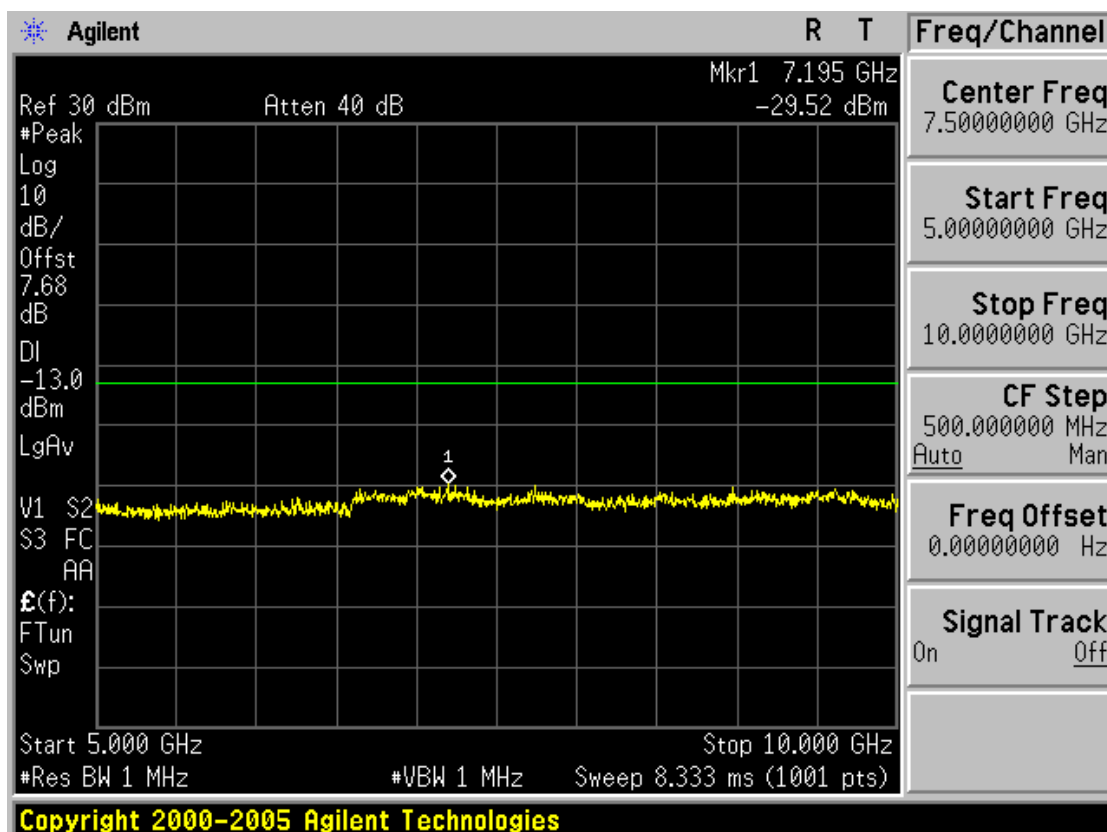
PCS1900

Spurious Emissions at Antenna Terminal / Ch.512 -1



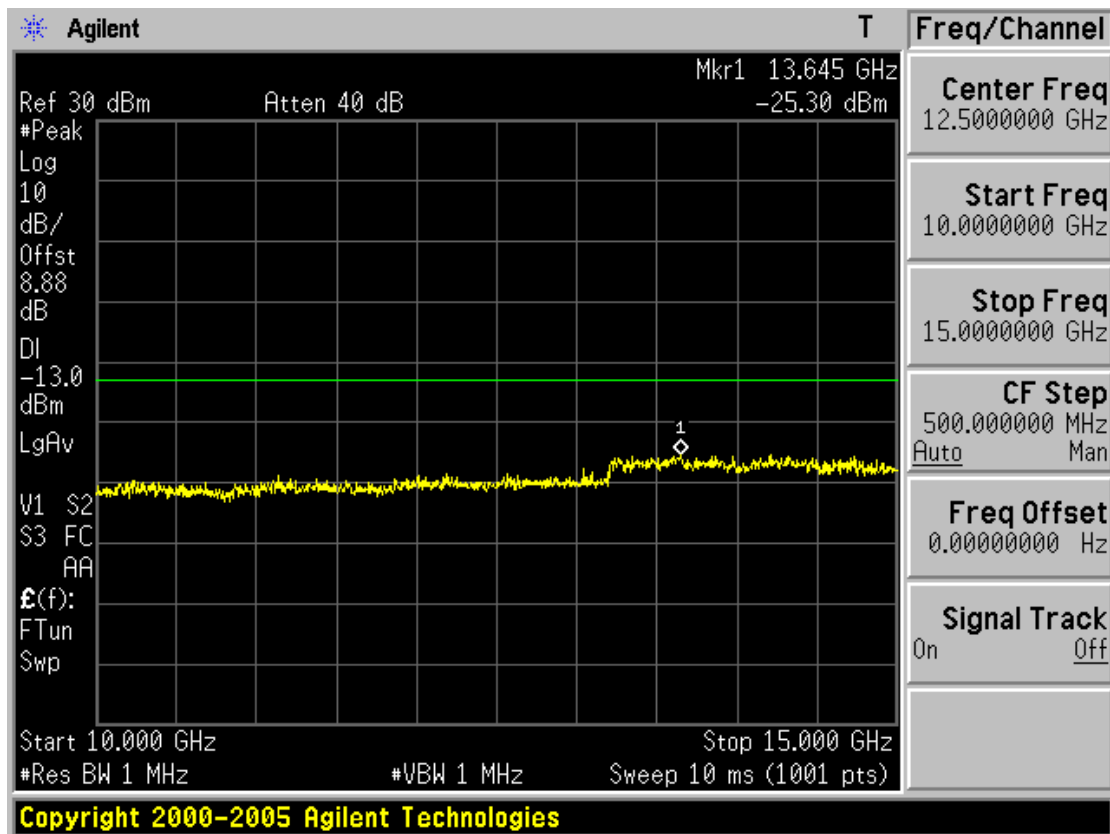
PCS1900

Spurious Emissions at Antenna Terminal / Ch.512 -2



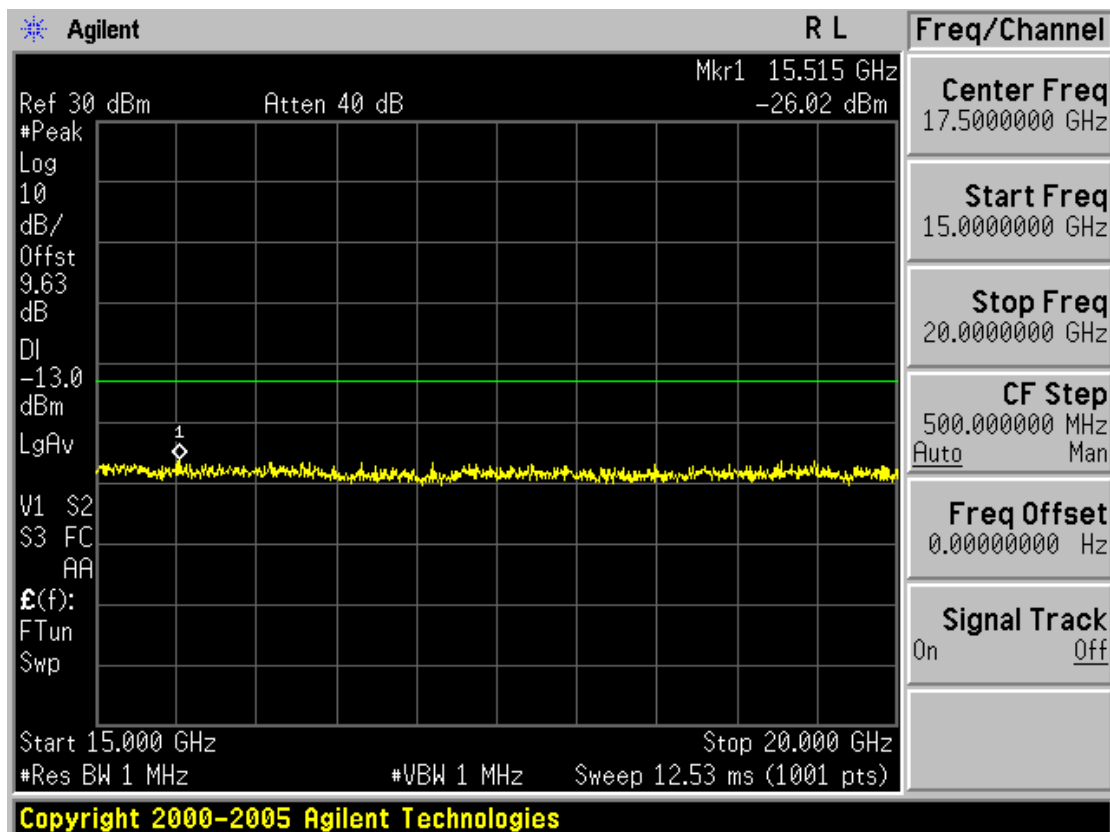
PCS1900

Spurious Emissions at Antenna Terminal / Ch.512 -3



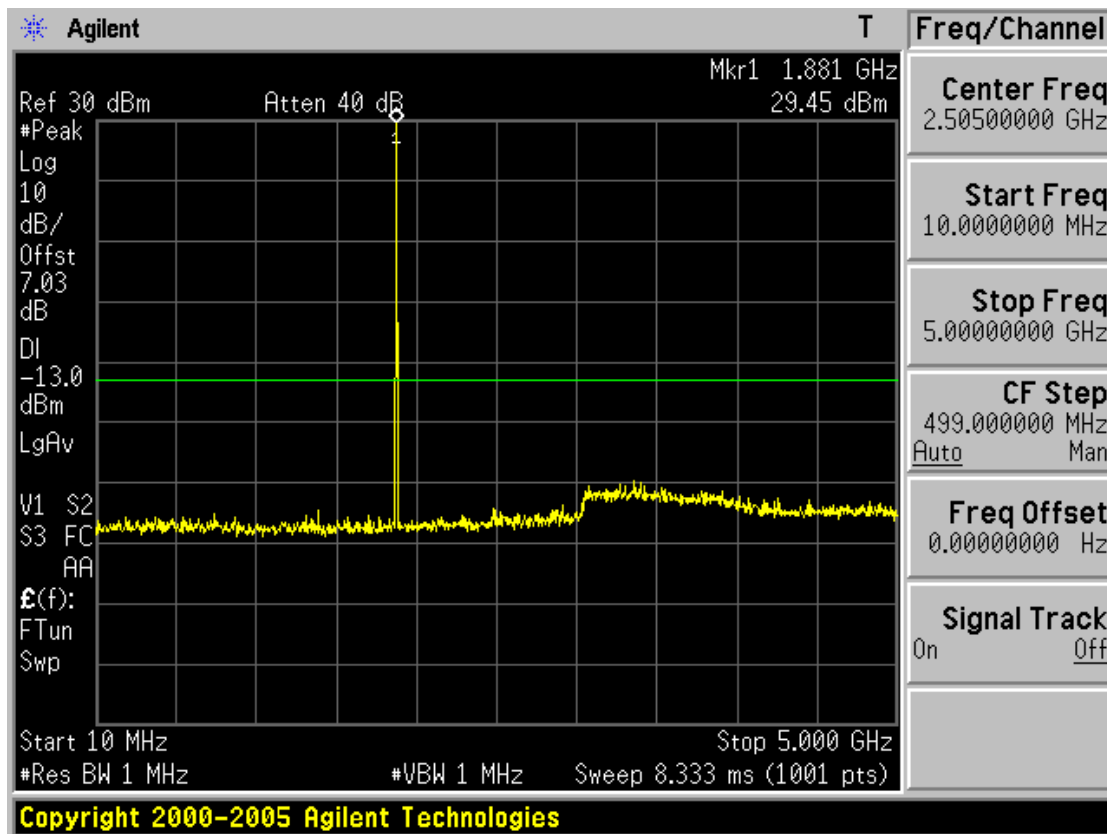
PCS1900

Spurious Emissions at Antenna Terminal / Ch.512 -4



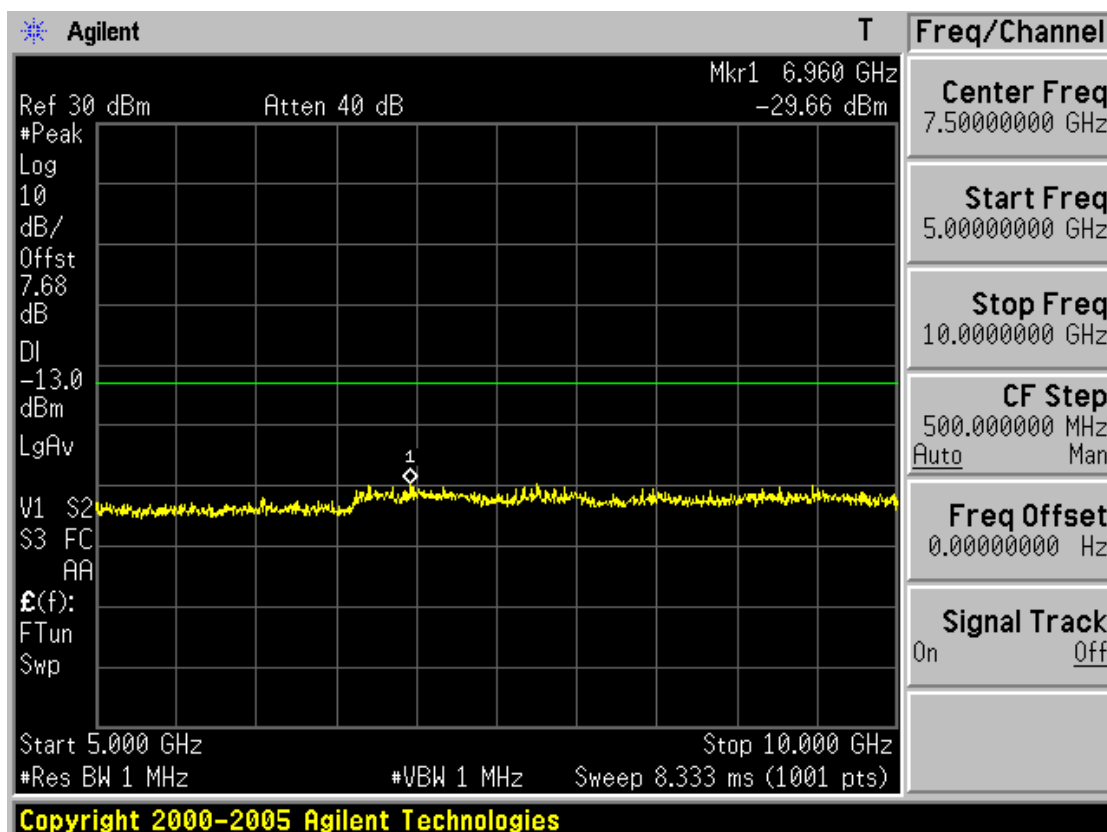
PCS1900

Spurious Emissions at Antenna Terminal / Ch.661 -1



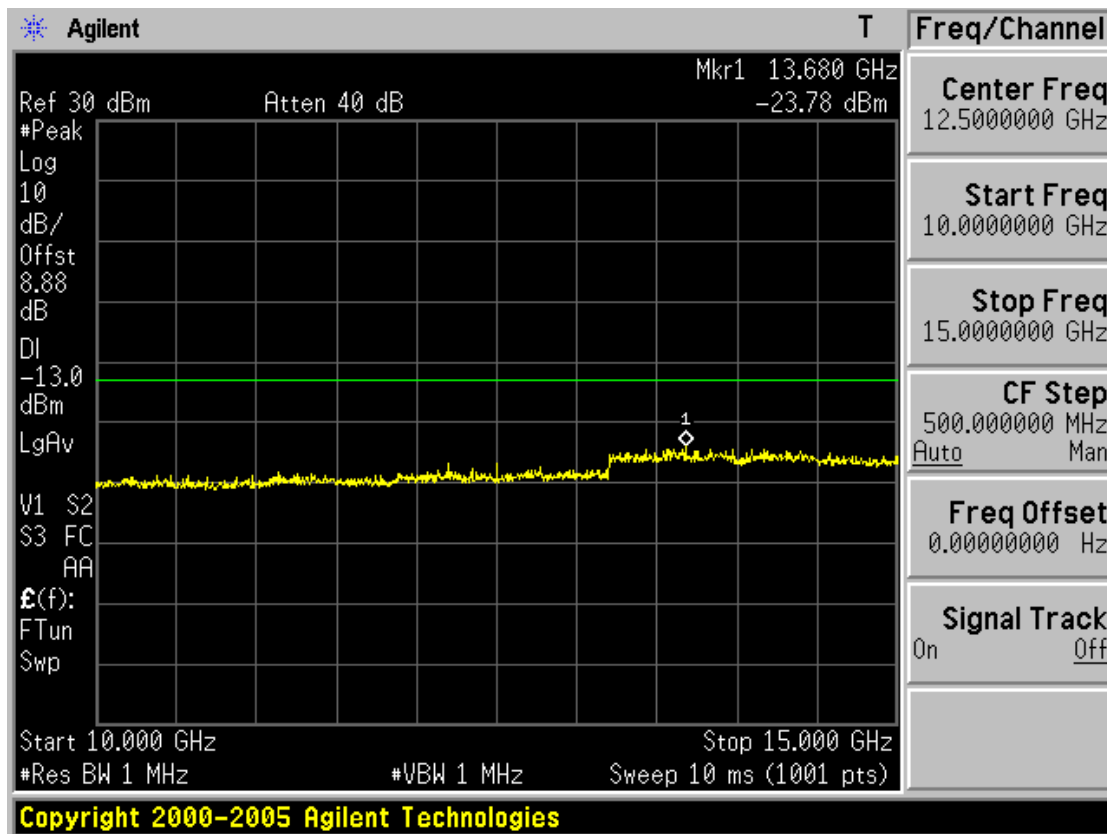
PCS1900

Spurious Emissions at Antenna Terminal / Ch.661 -2



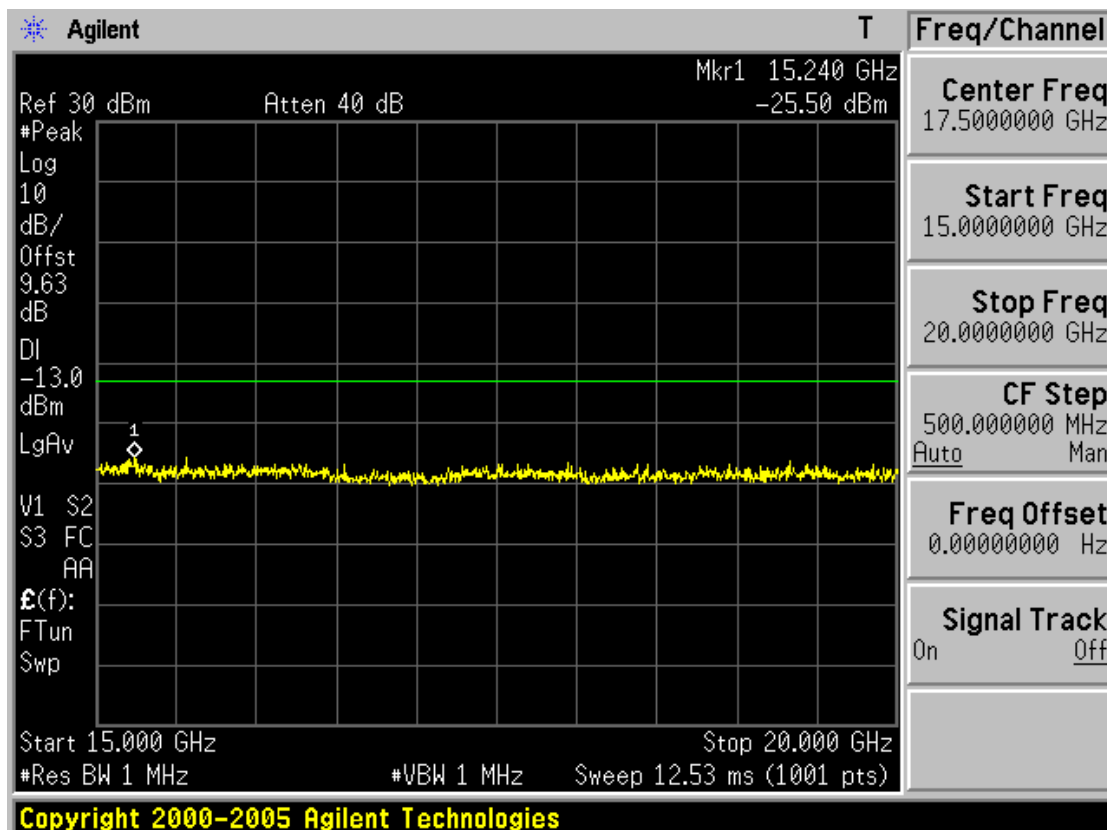
PCS1900

Spurious Emissions at Antenna Terminal / Ch.661 -3



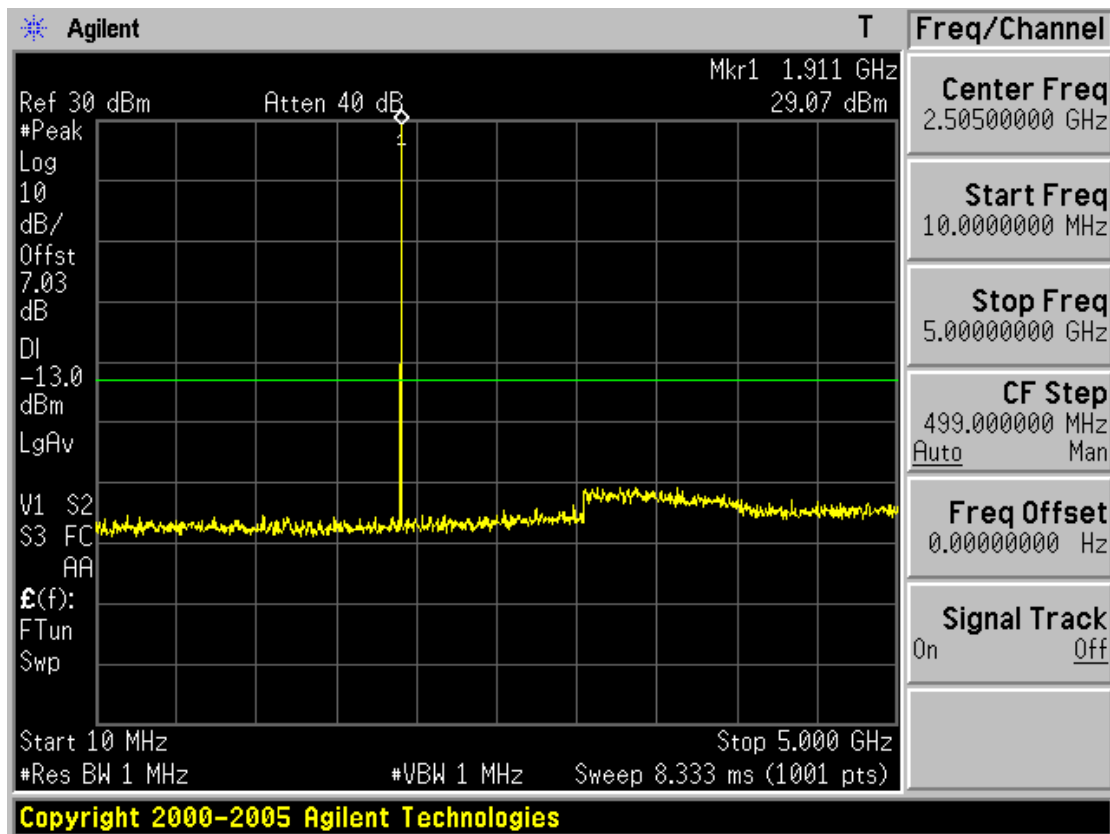
PCS1900

Spurious Emissions at Antenna Terminal / Ch.661 -4



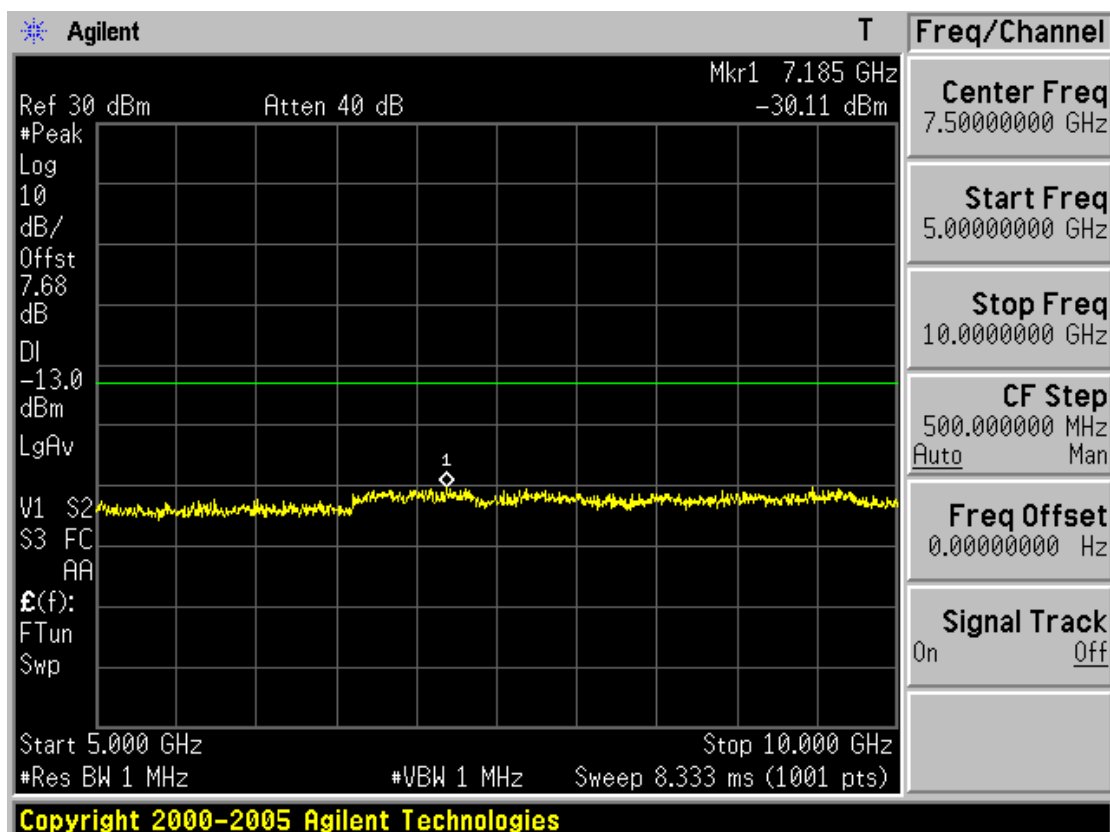
PCS1900

Spurious Emissions at Antenna Terminal / Ch.810 -1



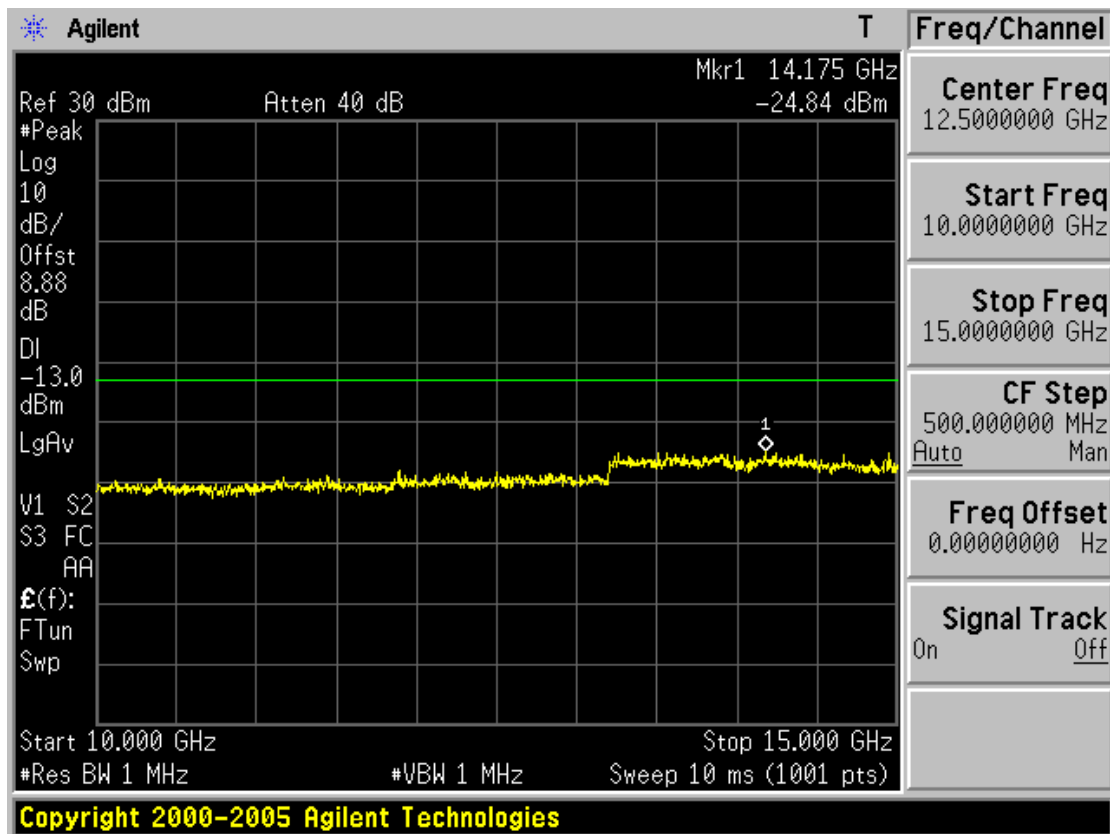
PCS1900

Spurious Emissions at Antenna Terminal / Ch.810 -2



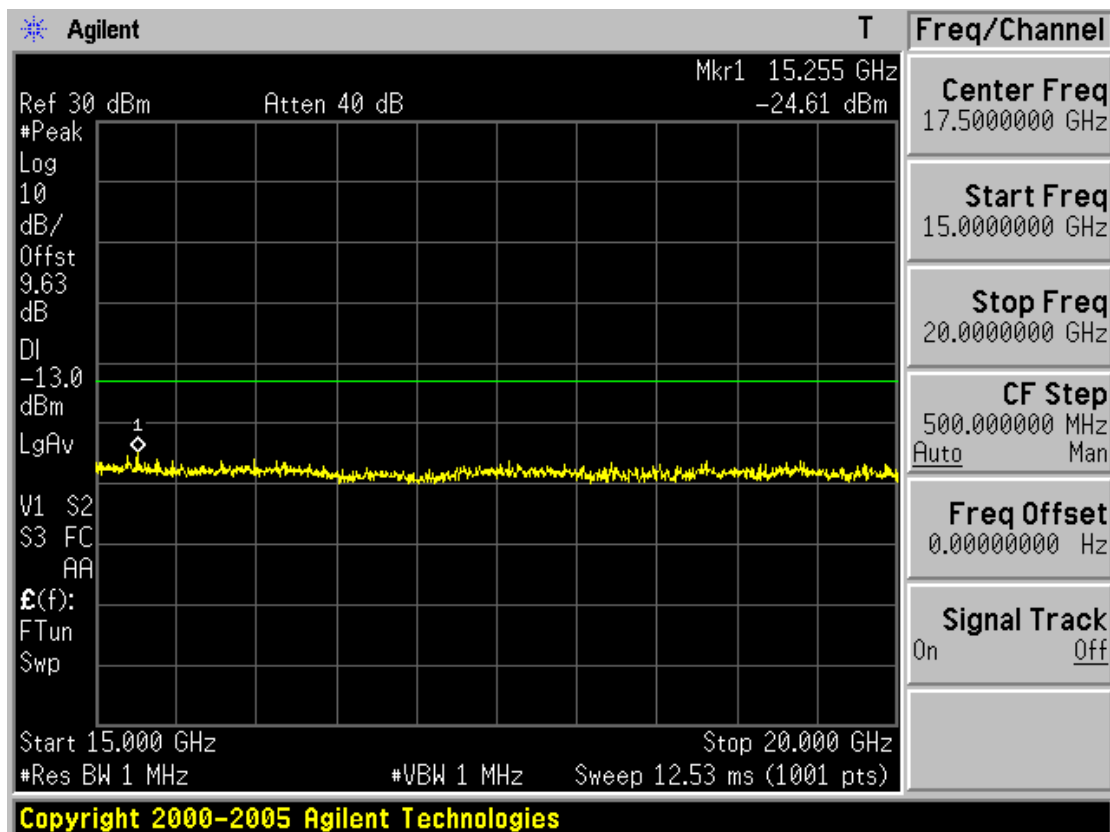
PCS1900

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	:	XKH-MCG-W160
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 : 31.99 dBm = 1.581 W
 MODULATION SIGNAL : GSM (Internal)
 DISTANCE : 3 meters
 LIMIT : $43 + 10 \log_{10} (W) =$ 44.99 dBc

Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	(dBc)
1648.4	V	-24.62	5.63	-18.99	50.98
2472.6	H	-26.74	7.01	-19.73	51.72
-	-	-	-	-	-

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 : 31.85 dBm = 1.531 W
 MODULATION SIGNAL : GSM (Internal)
 DISTANCE : 3 meters
 LIMIT : $43 + 10 \log_{10} (W) =$ 44.85 dBc

Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	(dBc)
1673.2	H	-29.76	5.69	-24.07	55.92
2509.8	H	-29.50	7.05	-22.45	54.30
-	-	-	-	-	-

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 : 32.45 dBm = 1.758 W
 MODULATION SIGNAL : GSM (Internal)
 DISTANCE : 3 meters
 LIMIT : $43 + 10 \log_{10} (W) =$ 45.45 dBc

Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	(dBc)
1697.6	H	-27.31	5.75	-21.56	54.01
2546.4	H	-24.55	7.09	-17.46	49.91
-	-	-	-	-	-

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 : 27.56 dBm = 0.085 W
 MODULATION SIGNAL : GSM (Internal)
 DISTANCE : 3 meters
 LIMIT : $43 + 10 \log_{10} (W) =$ 40.56 dBc

Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	(dBc)
3700.40	H	-45.95	9.60	-36.35	63.91
5550.60	V	-33.00	11.12	-21.88	49.44
-	-	-	-	-	-

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 : 28.98 dBm = 0.115 W
 MODULATION SIGNAL : GSM (Internal)
 DISTANCE : 3 meters
 LIMIT : $43 + 10 \log_{10} (W) =$ 41.98 dBc

Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	(dBc)
3760.00	H	-45.11	9.59	-35.52	64.50
5640.00	V	-29.52	11.15	-18.37	47.35
-	-	-	-	-	-

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 : 27.22 dBm = 0.076 W
 MODULATION SIGNAL : GSM (Internal)
 DISTANCE : 3 meters
 LIMIT : $43 + 10 \log_{10} (W) =$ 40.22 dBc

Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	(dBc)
3819.60	H	-41.42	9.58	-31.84	59.06
5729.40	V	-27.34	11.18	-16.16	43.38
-	-	-	-	-	-

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	:	XKH-MCG-W160
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 $\pm 0.00025(\pm 2.5\text{ppm})$ 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)

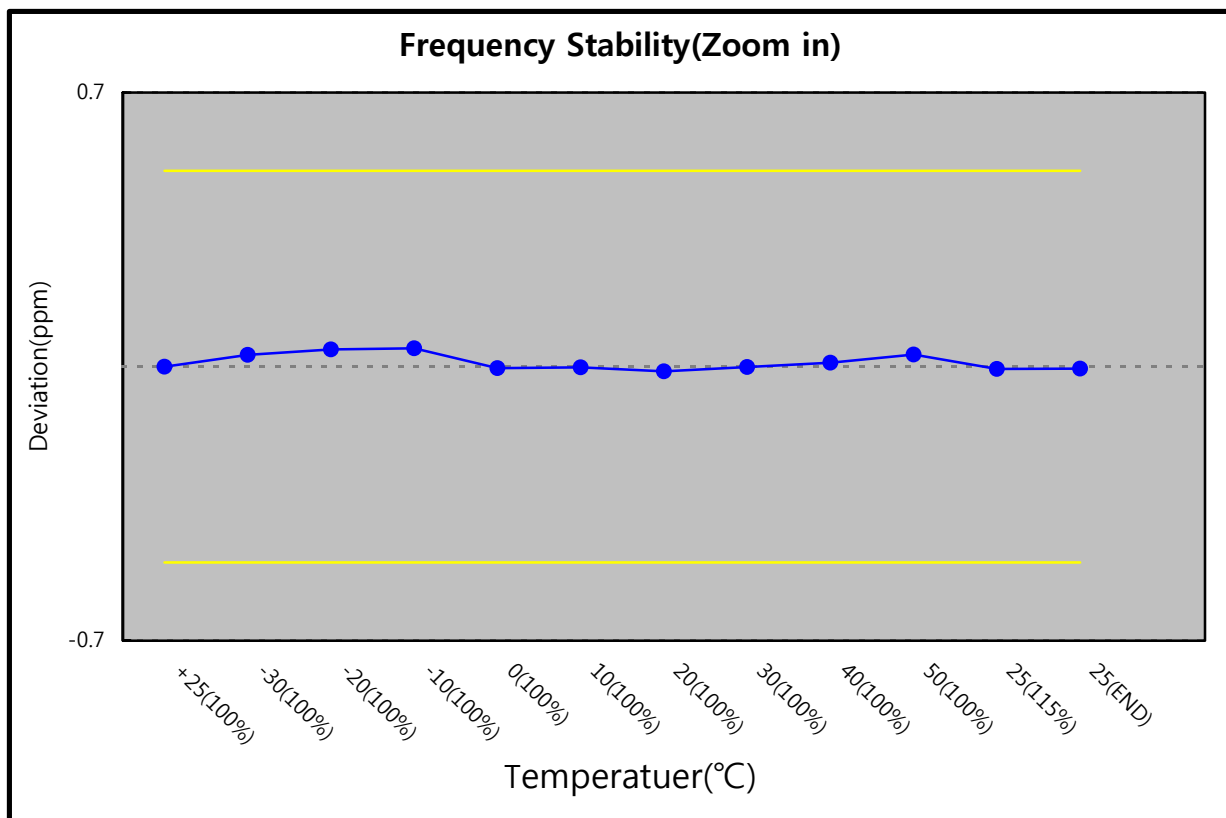
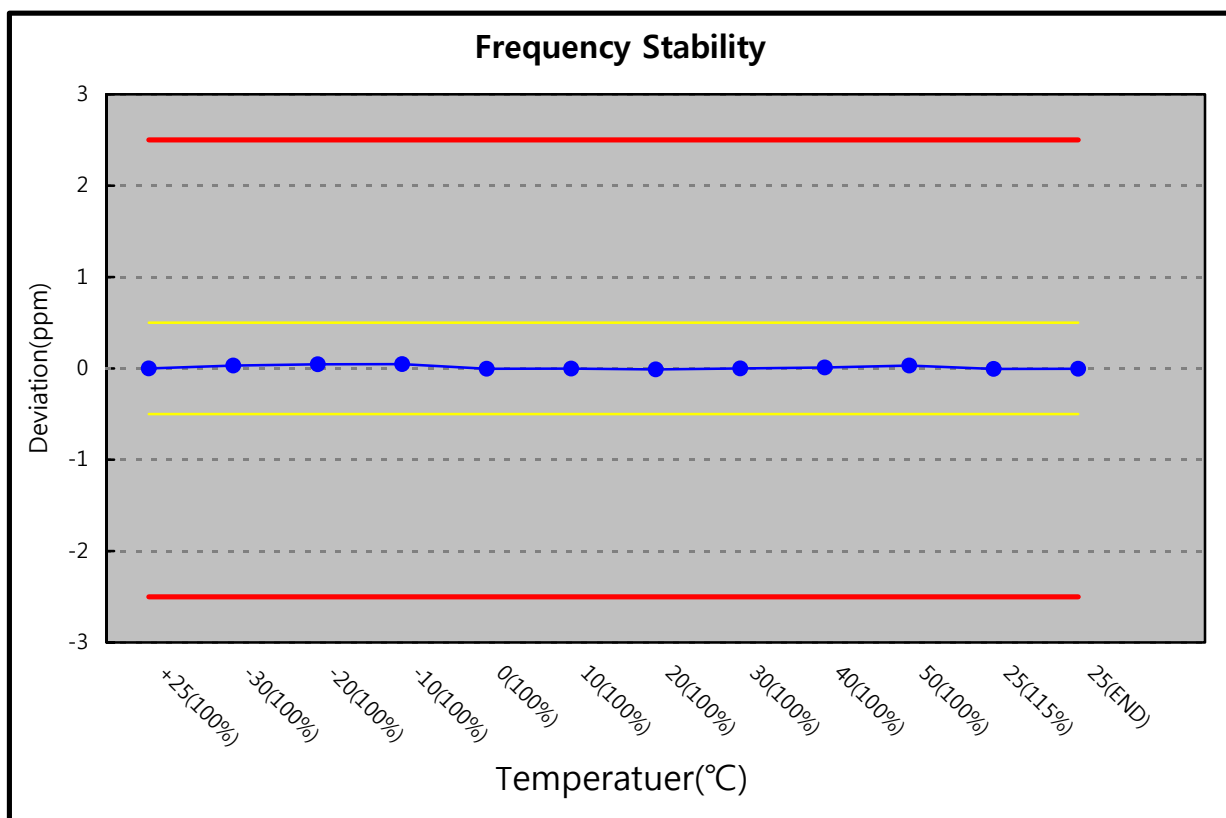
OPERATING FREQUENCY : 836,599,986 Hz
 CHANNEL : 190(Mid)
 REFERENCE VOLTAGE : 3.80 V AC
 DEVIATION LIMIT : ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (V AC)	TEMP (dB)	FREQ (Hz)	Deviation	
				(%)	(ppm)
100%	3.80	+25(Ref)	836,599,986	0.000000	0.000
100%		-30	836,600,011	0.000003	0.030
100%		-20	836,600,023	0.000004	0.044
100%		-10	836,600,025	0.000005	0.047
100%		0	836,599,983	0.000000	-0.004
100%		+10	836,599,984	0.000000	-0.002
100%		+20	836,599,976	-0.000001	-0.012
100%		+30	836,599,985	0.000000	-0.001
100%		+40	836,599,994	0.000001	0.010
100%		+50	836,600,012	0.000003	0.031
85%		3.23	+25	-	-
115%	4.37	+25	836,599,981	-0.000001	-0.006
BATT.ENDPOINT	3.42	+25	836,599,982	0.000000	-0.005

Note: This device is not operated at 3.23 V (85%).

Frequency Stability (GSM850)

(Continued...)



Frequency Stability (PCS1900)

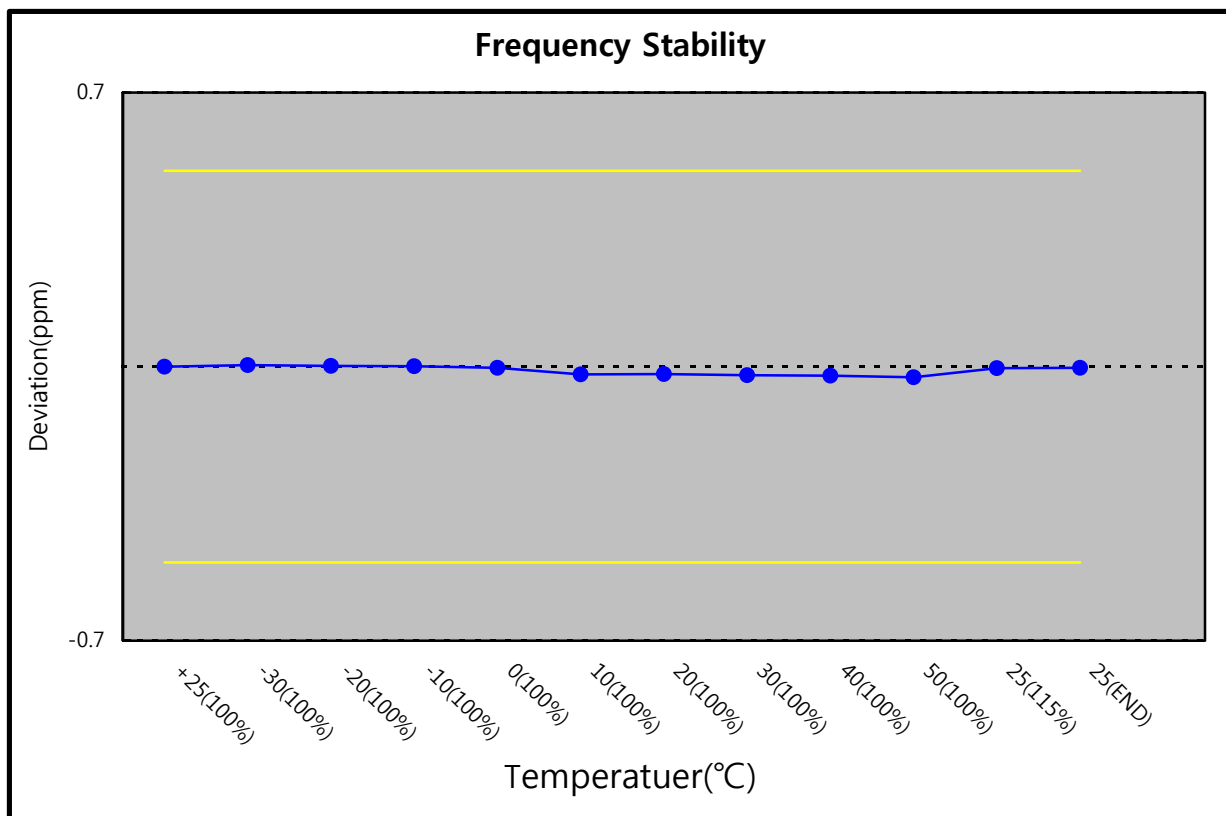
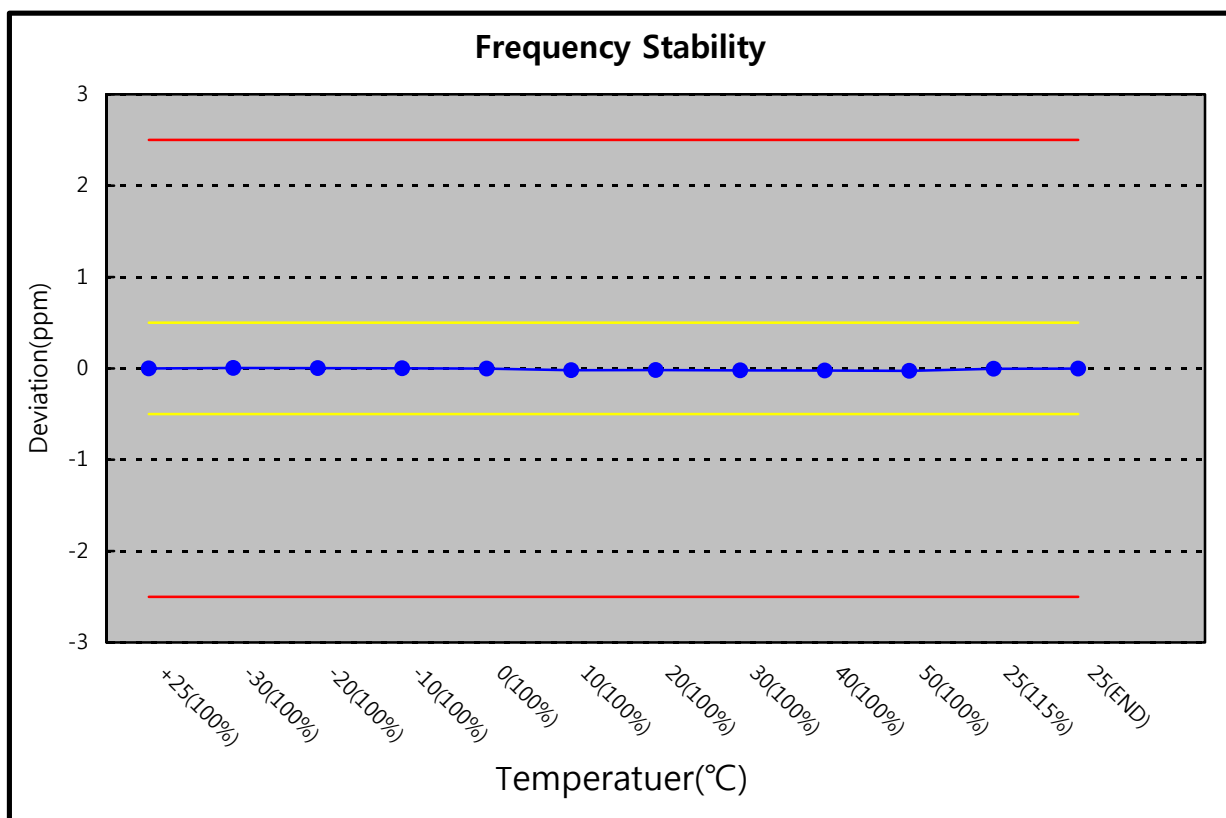
OPERATING FREQUENCY : 1,880,000,029 Hz
 CHANNEL : 0661(Mid)
 REFERENCE VOLTAGE : 3.80 V AC
 DEVIATION LIMIT : ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (V AC)	TEMP (dB)	FREQ (Hz)	Deviation	
				(%)	(ppm)
100%	3.80	+25(Ref)	1,880,000,029	0.000000	0.00
100%		-30	1,880,000,036	0.000000	0.00
100%		-20	1,880,000,032	0.000000	0.00
100%		-10	1,880,000,031	0.000000	0.00
100%		0	1,880,000,024	0.000000	0.00
100%		+10	1,879,999,991	-0.000002	-0.02
100%		+20	1,879,999,993	-0.000002	-0.02
100%		+30	1,879,999,987	-0.000002	-0.02
100%		+40	1,879,999,985	-0.000002	-0.02
100%		+50	1,879,999,979	-0.000003	-0.03
85%	3.23	+25	-	-	-
115%	4.37	+25	1,880,000,022	0.000000	0.00
BATT.ENDPOINT	3.42	+25	1,880,000,024	0.000000	0.00

Note: This device is not operated at 3.23 V (85%).

Frequency Stability (PCS1900)

(continued...)



4. TEST EQUIPMENT

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment.

	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
<input checked="" type="checkbox"/>	Spectrum Analyzer	Agilent	E4440A	06/11/08	06/11/09	MY45304199
<input type="checkbox"/>	Spectrum Analyzer	Rohde Schwarz	FSQ26	02/02/09	02/02/10	200347
<input type="checkbox"/>	Spectrum Analyzer(RE)	H.P	8563E	13/10/08	13/10/09	3551A04634
<input checked="" type="checkbox"/>	Power Meter	H.P	EMP-442A	02/07/09	02/07/10	GB37170413
<input checked="" type="checkbox"/>	Power Sensor	H.P	8481A	02/07/09	02/07/10	3318A96332
<input type="checkbox"/>	Power Divider	Agilent	11636B	04/12/08	04/12/09	56471
<input checked="" type="checkbox"/>	Power Splitter	Anritsu	K241B	14/10/08	14/10/09	020611
<input type="checkbox"/>	Power Splitter	Anritsu	K241B	02/07/09	02/07/10	017060
<input type="checkbox"/>	Frequency Counter	H.P	5342A	16/09/08	16/09/09	2119A04450
<input checked="" type="checkbox"/>	TEMP & HUMIDITY Chamber	JISCO	KR-100/J-RHC2	10/10/08	10/10/09	30604493/021031
<input checked="" type="checkbox"/>	Digital Multimeter	H.P	34401A	13/03/09	13/03/10	3146A13475
<input type="checkbox"/>	Multifunction Synthesizer	HP	8904A	06/10/08	06/10/09	3633A08404
<input checked="" type="checkbox"/>	Signal Generator	Rohde Schwarz	SMR20	13/03/09	13/03/10	101251
<input checked="" type="checkbox"/>	Signal Generator	H.P	ESG-3000A	02/07/09	02/07/10	US37230529
<input type="checkbox"/>	Vector Signal Generator	Rohde Schwarz	SMJ100A	02/02/09	02/02/10	100148
<input type="checkbox"/>	Audio Analyzer	H.P	8903B	02/07/09	02/07/10	3011A09448
<input type="checkbox"/>	Modulation Analyzer	H.P	8901B	02/07/09	02/07/10	3028A03029
<input checked="" type="checkbox"/>	8960 Series 10 Wireless Comms. Test Set	Agilent	E5515C	02/07/09	02/07/10	GB43461134
<input type="checkbox"/>	Universal Radio communication Tester	Rohde Schwarz	CMU 200	19/05/09	19/05/10	106760
<input type="checkbox"/>	Bluetooth Tester	TESCOM	TC-3000B	02/07/09	02/07/10	3000B000268
<input type="checkbox"/>	Thermo hygrometer	BODYCOM	BJ5478	06/02/09	06/02/10	090205-3
<input checked="" type="checkbox"/>	Thermo hygrometer	BODYCOM	BJ5478	06/02/09	06/02/10	090205-2
<input type="checkbox"/>	Thermo hygrometer	BODYCOM	BJ5478	06/02/09	06/02/10	090205-4
<input type="checkbox"/>	AC Power supply	DAEKWANG	5KVA	13/03/09	13/03/10	20060321-1
<input checked="" type="checkbox"/>	DC Power Supply	HP	6622A	13/03/09	13/03/10	3448A03760
<input checked="" type="checkbox"/>	DC Power Supply	HP	6633A	13/03/09	13/03/10	3524A06634
<input type="checkbox"/>	BAND Reject Filter	Microwave Circuits	N0308372	06/10/08	06/10/09	3125-01DC0352
<input type="checkbox"/>	BAND Reject Filter	Wainwright	WRCG1750	06/10/08	06/10/09	2
<input type="checkbox"/>	High-Pass Filter	ANRITSU	MP526D	06/10/08	06/10/09	MP27756
<input checked="" type="checkbox"/>	High-pass filter	Wainwright	WHKX2.1	N/A	N/A	1
<input type="checkbox"/>	High-Pass Filter	Wainwright	WHKX3.0	N/A	N/A	9
<input type="checkbox"/>	Tunable Notch Filter	Wainwright	WRCT800.0 /960.0-0.2/40-8SSK	N/A	N/A	10
<input type="checkbox"/>	Tunable Notch Filter	Wainwright	WRCD1700.0 /2000.0-0.2/40-10SSK	N/A	N/A	27
<input type="checkbox"/>	Tunable Notch Filter	Wainwright	WRCT1900.0 /2200.0-5/40-10SSK	N/A	N/A	7
<input checked="" type="checkbox"/>	HORN ANT	ETS	3115	17/06/09	17/06/10	6419
<input checked="" type="checkbox"/>	HORN ANT	ETS	3115	10/09/08	10/09/09	21097
<input type="checkbox"/>	HORN ANT	A.H.Systems	SAS-574	10/06/09	10/06/10	154
<input type="checkbox"/>	HORN ANT	A.H.Systems	SAS-574	10/06/09	10/06/10	155

	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
<input type="checkbox"/>	Dipole Antenna	Schwarzbeck	VHA9103	25/11/08	25/11/09	2116
<input type="checkbox"/>	Dipole Antenna	Schwarzbeck	VHA9103	25/11/08	25/11/09	2117
<input checked="" type="checkbox"/>	Dipole Antenna	Schwarzbeck	UHA9105	25/11/08	25/11/09	2261
<input checked="" type="checkbox"/>	Dipole Antenna	Schwarzbeck	UHA9105	25/11/08	25/11/09	2262
<input type="checkbox"/>	LOOP ANTENNA	ETS	6502	13/10/08	13/10/09	3471
<input type="checkbox"/>	Coaxial Fixed Attenuators	Agilent	8491B	02/07/09	02/07/10	MY39260700
<input checked="" type="checkbox"/>	Coaxial Fixed Attenuators	Agilent	8491B	02/07/09	02/07/10	MY39260699
<input checked="" type="checkbox"/>	Attenuator (10dB)	WEINSCHHEL	23-10-34	01/10/08	01/10/09	BP4386
<input type="checkbox"/>	Attenuator (10dB)	WEINSCHHEL	23-10-34	19/01/09	19/01/10	BP4387
<input type="checkbox"/>	Attenuator (20dB)	WEINSCHHEL	86-20-11	06/10/08	06/10/09	432
<input type="checkbox"/>	Attenuator (10dB)	WEINSCHHEL	86-10-11	06/10/08	06/10/09	446
<input type="checkbox"/>	Attenuator (10dB)	WEINSCHHEL	86-10-11	06/10/08	06/10/09	408
<input type="checkbox"/>	Attenuator (40dB)	WEINSCHHEL	57-40-33	01/10/08	01/10/09	NN837
<input type="checkbox"/>	Attenuator (30dB)	JFW	50FH-030-300	13/03/09	13/03/10	060320-1
<input type="checkbox"/>	Type N Coaxial CIRCULATOR	NOVA MICROWAVE	0088CAN	02/07/09	02/07/10	788
<input type="checkbox"/>	Type N Coaxial CIRCULATOR	NOVA MICROWAVE	0185CAN	02/07/09	02/07/10	790
<input type="checkbox"/>	Type N Coaxial CIRCULATOR	NOVA MICROWAVE	0215CAN	02/07/09	02/07/10	112
<input checked="" type="checkbox"/>	Amplifier (30dB)	Agilent	8449B	13/10/08	13/10/09	3008A01590
<input checked="" type="checkbox"/>	Amplifier	EMPOWER	BBS3Q7ELU	02/02/09	02/02/10	1020
<input type="checkbox"/>	RF Power Amplifier	OPHIRRF	5069F	02/07/09	02/07/10	1006
<input type="checkbox"/>	EMI TEST RECEIVER	R&S	ESU	02/02/09	02/02/10	100014
<input type="checkbox"/>	BILOG ANTENNA	SCHAFFNER	CBL6112B	13/06/08	02/06/10	2737
<input type="checkbox"/>	Amplifier (22dB)	H.P	8447E	05/02/09	05/02/10	2945A02865
<input type="checkbox"/>	EMI TEST RECEIVER	R&S	ESCI	12/05/09	12/05/10	100364
<input type="checkbox"/>	LOG-PERIODIC ANT.	Schwarzbeck	UHALP9108A	30/05/09	30/05/10	590
<input type="checkbox"/>	BICONICAL ANT.	Schwarzbeck	VHA 9103	02/06/09	02/06/10	2233
<input type="checkbox"/>	LOG-PERIODIC ANT.	Schwarzbeck	UHALP 9108-A1	30/09/08	30/09/09	1098
<input type="checkbox"/>	BICONICAL ANT.	Schwarzbeck	VHA 9103	30/09/08	30/09/09	91031946
<input type="checkbox"/>	Low Noise Pre Amplifier	TSJ	MLA-100K01-B01-2	13/03/09	13/03/10	1252741
<input type="checkbox"/>	Amplifier (25dB)	Agilent	8447D	12/05/09	12/05/10	2944A10144
<input type="checkbox"/>	Amplifier (25dB)	Agilent	8447D	18/08/08	18/08/09	2648A04922
<input type="checkbox"/>	Spectrum Analyzer(CE)	H.P	8591E	26/04/09	26/04/10	3649A05889
<input type="checkbox"/>	LISN	Kyoritsu	KNW-407	04/08/08	04/08/09	8-317-8
<input type="checkbox"/>	LISN	Kyoritsu	KNW-242	11/09/08	11/09/09	8-654-15
<input type="checkbox"/>	CVCF	NF Electronic	4420	N/A	N/A	304935/337980
<input type="checkbox"/>	DC BLOCK	Hyuplip	KEL-007	N/A	N/A	7-1581-5
<input type="checkbox"/>	50 ohm Terminator	HME	CT-01	22/01/09	22/01/10	N/A
<input type="checkbox"/>	RFI/FIELD Intensity Meter	Kyoritsu	KNM-2402	11/09/08	11/09/09	4N-170-3

5. EMISSION DESIGNATOR

GSM850

Emission Designator = 247KGXW

GSM BW = 246.8909 KHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

PCS1900

Emission Designator = 245KGXW

GSM BW = 245.4582 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 **MOBILE CREATE Inc. Personal Wireless Mobile Camera (FCC ID: XKH-MCG-W160)** complies with all the requirements of Parts 2 , 22 and 24 of the FCC rules.