



HCT CO., LTD.

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FCC PART 15.247 Class II Permissive Change

Applicant Name:

LG Electronics Inc.

60-39, Gasan-dong, Gumchon-gu,
Seoul 153-023, Korea

Date of Issue:

June 4, 2009

Test Site/Location:

HCT CO., LTD., San 136-1 Ami-ri, Bubal-eup, Icheon-si,
Kyungki-do, Korea

Test Report No.: HCT-RF09-0515-1

HCT FRN: 0005866421

IC Recognition No.: 5944A-1

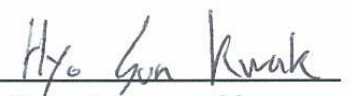
FCC ID:	BEJGB250G
IC:	2703C-GB250
APPLICANT:	LG Electronics Inc.

Model(s):	GB250g
Addition Model(s):	GB255g
EUT Type:	Cellular/ PCS GSM /EDGE / WCDMA Phone with Bluetooth
Frequency Range:	2402 - 2480 MHz (Bluetooth)
Modulation type	GFSK, PSK
FCC Classification:	FCC Part 15 Frequency Hopping Spread Spectrum Transceiver
FCC Rule Part(s):	Part 15 subpart C 15.247
Application Type:	FCC Class II Permissive Change
IC Rule :	RSS-210 , RSS-GEN

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 862


Report prepared by
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Test engineer of RF Team


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1. GENERAL INFORMATION

Applicant: LG Electronics Inc.
Applicant: 60-39, Gasan-dong, Gumchon-gu,
Seoul 153-023, Korea
FCC ID: BEJGB250G
IC ID: 2703C-GB250
Application Type: FCC Class II Permissive Change
EUT Type: Cellular/ PCS GSM /EDGE / WCDMA Phone with Bluetooth
Model: GB250g
Date of Test: May 10, 2009 ~ May 14, 2009
Contact person: Name: Bong Hyo, Han
Phone #: +82-2-2033-1108
Fax #: +82-2-2033-1222
Place of Tests: HCT CO., LTD.
Icheon, Kyounki-Do, Korea (IC Recognition No. : 5944A-1)

2. EUT DESCRIPTION

Product	Cellular/ PCS GSM /EDGE / WCDMA Phone with Bluetooth
Model Name	GB250g
Additional Model(s)	GB255g
Power Supply	DC 12 V
Frequency Range	2402 ~ 2480 MHz
Transmit Power	0.18 dBm(1.04 mW)
Modulation Type	GFSK(Normal), PSK(EDR)
Modulation Technique	FHSS
Number of Channels	79 Channels
Antenna Specification	Manufacturer: AMOTECH Co.,LTD. Antenna type: CHIP ANTENNA Peak Gain : 3.7 dBi

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3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz(ANSI C63.4-2003) and FCC Public Notice DA 00-705 dated March 30, 2000 entitled "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" were used in the measurement of the **LG Electronics Inc.**

Cellular/ PCS GSM /EDGE / WCDMA Phone with Bluetooth FCC ID: BEJGB250G

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version: 2003)

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

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4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 6, 2006(Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

* The antennas of this E.U.T are permanently attached.

*The E.U.T Complies with the requirement of §15.203

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7. FCC PART 15.247 REQUIREMENTS

7.1 SPURIOUS EMISSIONS

7.1.1 Radiated Spurious Emissions

LIMIT

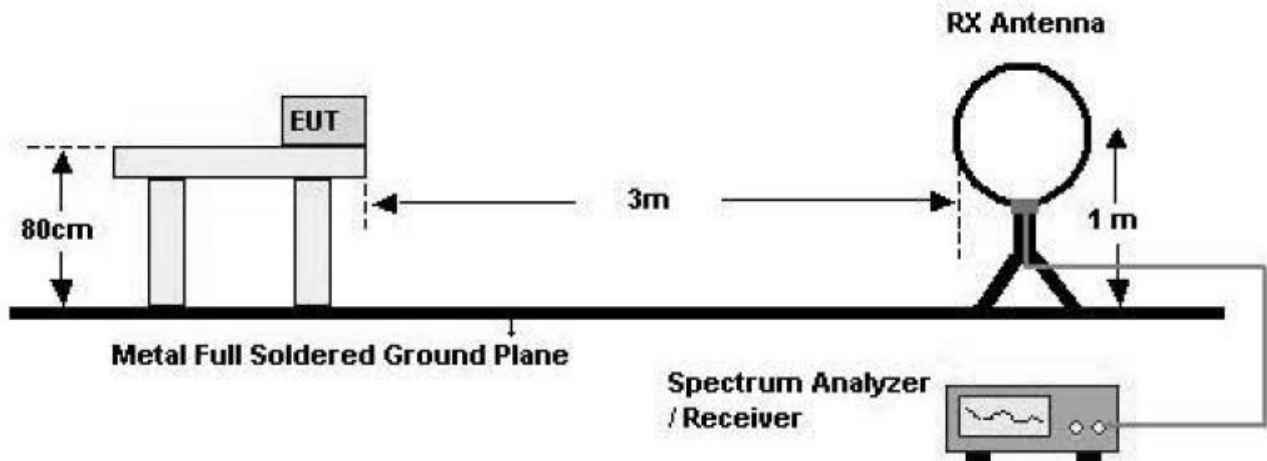
1. 20dBc in any 100kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

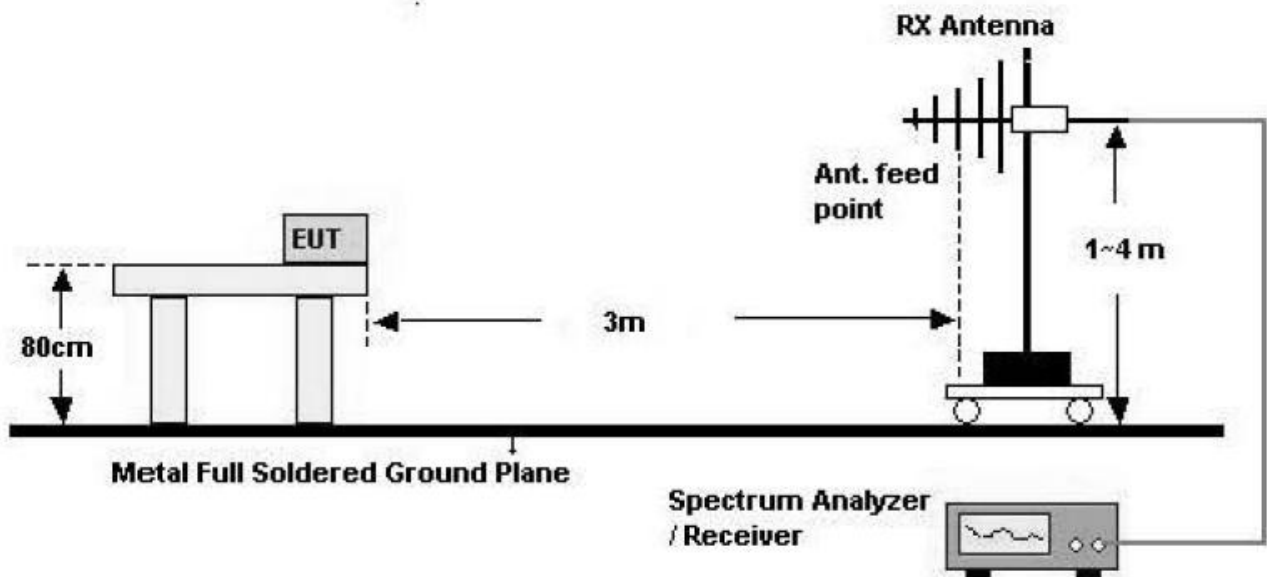
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Test Configuration

Below 30 MHz

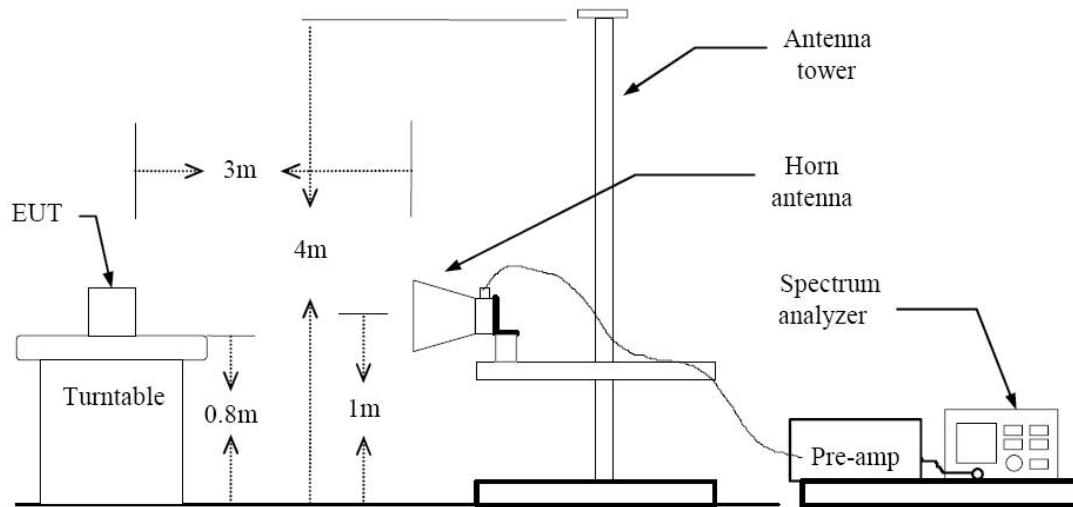


30 MHz - 1 GHz



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Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

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TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Link

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)
4. Limit line = specific Limits (dBuV) + Distance extrapolation factor

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TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
60.0	16.7	12.1	1.8	H	30.6	40.0	9.4
132.0	25.0	11.7	2.7	V	39.4	43.5	4.1
144.0	24.3	12.5	2.8	V	39.6	43.5	3.9
144.0	21.0	12.5	2.8	H	36.3	43.5	7.2
156.0	19.6	12.7	3.0	V	35.3	43.5	8.2
192.0	20.9	10.6	3.3	V	34.8	43.5	8.7
288.0	19.7	12.7	4.1	H	36.5	46.0	9.5

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

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Above 1 GHz

Operation Mode: CH Low(EDR)

Frequency [MHz]	Reading dBuV	AN.+CL-AMP GAIN. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4804	47.05	-4.79	V	42.26	74	31.74	PK
4804	34.94	-4.79	V	30.15	54	23.85	AV
7206	49.71	1.21	V	50.92	74	23.08	PK
7206	37.03	1.21	V	38.24	54	15.76	AV
4804	46.98	-4.79	H	42.19	74	31.81	PK
4804	34.44	-4.79	H	29.65	54	24.35	AV
7206	49.86	1.21	H	51.07	74	22.93	PK
7206	37.00	1.21	H	38.21	54	15.79	AV

※ A:F: ANTENNA FACTOR

C:L: CABLE LOSS

AMP GAIN: AMPLIFIER GAIN

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

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Operation Mode: CH Mid(EDR)

Frequency [MHz]	Reading dBuV	AN.+CL-AMP GAIN. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4882	47.61	-4.61	V	43.00	74	31.00	PK
4882	35.46	-4.61	V	30.85	54	23.15	AV
7323	49.64	1.62	V	51.26	74	22.74	PK
7323	36.78	1.62	V	38.40	54	15.60	AV
4882	47.78	-4.61	H	43.17	74	30.83	PK
4882	35.56	-4.61	H	30.95	54	23.05	AV
7323	49.32	1.62	H	50.94	74	23.06	PK
7323	36.59	1.62	H	38.21	54	15.79	AV

※ A·F: ANTENNA FACTOR

C·L: CABLE LOSS

AMP GAIN: AMPLIFIER GAIN

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

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Operation Mode: CH High(EDR)

Frequency [MHz]	Reading dBuV	AN.+CL-AMP GAIN. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4960	48.29	-4.42	V	43.87	74	30.13	PK
4960	35.73	-4.42	V	31.31	54	22.69	AV
7440	50.22	2.04	V	52.26	74	21.74	PK
7440	37.61	2.04	V	39.65	54	14.35	AV
4960	47.68	-4.42	H	43.26	74	30.74	PK
4960	34.92	-4.42	H	30.50	54	23.50	AV
7440	50.37	2.04	H	52.41	74	21.59	PK
7440	37.41	2.04	H	39.45	54	14.55	AV

※ A·F: ANTENNA FACTOR

C·L: CABLE LOSS

AMP GAIN: AMPLIFIER GAIN

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

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7.1.2 Receiver Spurious Emissions

FCC Rule(s) §15.109 (see Table Below)
 Test Requirements: Emission Level shall not exceed §15.109 limits
 Operating conditions: Under normal test conditions
 Method of testing: Radiated

S/A. Settings: F < 1 GHz: RBW: 120 kHz, VBW: 120 kHz (Quasi Peak)
 F > 1 GHz: RBW: 1 MHz, VBW: 1 MHz (Peak)
 Mode of operation: Receive

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
30 – 88	100 (40 dBuV)	3
88 – 216	150 (43.5 dBuV))	3
216 – 960	200 (46 dBuV)	3
Above 960	500 (54 dBuV)	3

Operation Mode: Receive:

30 MHz ~ 1 GHz

Frequency MHz	Reading dBuV	Ant. Factor dB/m	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
No Critical peaks found							

Above 1 GHz

Frequency MHz	Reading dBuV	Ant. Factor dB/m	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
No Critical peaks found							

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7.1.3 Radiated Restricted Band Edge Measurements

Test Requirements and limit, §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

Operation Mode:	GFSK(Normal)
Operating Frequency	2402, 2480 MHz
Channel No.	0, 78 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2364.08	48.55	-10.27	H	38.28	74	35.72	PK
2364.08	36.20	-10.27	H	25.93	54	28.07	AV
2324.40	47.83	-10.44	V	37.39	74	36.61	PK
2324.40	35.86	-10.44	V	25.42	54	28.58	AV
2494.32	48.65	-9.72	H	38.93	74	35.07	PK
2494.32	36.04	-9.72	H	26.32	54	27.68	AV
2491.98	47.81	-9.73	V	38.08	74	35.92	PK
2491.98	35.86	-9.73	V	26.13	54	27.87	AV

Notes:

1. Spectrum setting:

- Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
- AV Setting 1 GHz – 26 GHz, RBW=1 MHz, VBW= 10 Hz.

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8. LIST OF TEST EQUIPMENT

Manufacturer	Model / Equipment	Cal Interval	Calibration Due	Serial No.
Rohde & Schwarz	ESH2-Z5/ LISN	Annual	04/10/2010	861741/013
Rohde & Schwarz	ESH3-Z6/ LISN	Annual	06/13/2009	100329
Schwarzbeck	VULB 9160/ TRILOG Antenna	Biennial	12/18/2010	9160-3150
HD	MA240/ Antenna Position Tower	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12
Rohde & Schwarz	ESH3-Z2/ PULSE LIMITER	Annual	10/30/2009	375.8810.352
MITEQ	AMF-60-0010 1800-35-20P/AMP	Annual	05/20/2010	1200937
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	03/26/2010	147
Rohde & Schwarz	6502/Loop Antenna	Biennial	12/26/2009	9009-2536
Rohde & Schwarz	FSP30/Spectrum Analyzer	Annual	07/31/2009	839117/011
Agilent	E4416A /Power Meter	Annual	01/21/2010	GB41291412
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	Annual	06/28/2009	1
Hewlett Packard	11636B/Power Divider	Annual	12/24/2009	11377
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	01/07/2010	3110117

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