

FCC Test Report

APPLICANT : CT Asia

EQUIPMENT: **GSM** mobile phone

BRAND NAME : BLU

MODEL NAME : Deejay II

FCC ID : YHLBLUDEEJAYII

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Apr. 14, 2011 and completely tested on May 14, 2011. We, SPORTON INTERNATIONAL (KUNSAHN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager





Report No.: FD141403

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDEEJAYII Page Number : 1 of 21
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FD141403	Rev. 01	Initial issue of report	Jun. 10, 2011

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
				< 15.107 limits		Under limit
3.1	15.107	7.2.2	AC Conducted Emission	< RSS-Gen table 2 limits	PASS	14.31 dB at
				< RSS-Gen lable 2 limits		0.46 MHz
				< 15.109 limits or		Under limit
3.2	15.109	7.2.3.2	Radiated Emission	< RSS-Gen table 1 limits	PASS	0.32 dB at
				(Section 6)		38.10 MHz

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1. General Description

1.1. Applicant

CT Asia

RMA2011, 20/F, GOLDEN CENTRAL TOWER, NO.3037# JINTIAN ROAD, FUTIAN DISTRICT

1.2. Manufacturer

Telacom INT'L Limited (Shenzhen) Office

Office Tower 28/F, the Pavilion Hotel, Hua Qiang Bei Road 4002, Futian District, 518028, Shenzhen, P.R.C.

1.3. Feature of Equipment Under Test

Product F	eature & Specification		
Equipment	GSM mobile phone		
Brand Name	BLU		
Model Name	Deejay II		
FCC ID	YHLBLUDEEJAYII		
Tx Frequency Range	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz		
	Bluetooth : 2400 MHz ~ 2483.5 MHz		
Rx Frequency Range	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz		
' '	Bluetooth : 2400 MHz ~ 2483.5 MHz		
Antenna Type	WWAN : Fixed Internal Antenna		
HW Version	Bluetooth : Dipole Antenna K2053_MB_V2.0_20110316		
SW Version	Krf_k2053_p00u00f63lz3_00_24		
	GSM / GPRS : GMSK		
Type of Modulation	Bluetooth (1Mbps) : GFSK		
	Bluetooth EDR (2Mbps) : π/4-DQPSK		
	Bluetooth EDR (3Mbps) : 8-DPSK		
EUT Stage	Production Unit		

Remark:

- **1.** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. It is only the SIM card different between DeejayII single SIM card mobile and DeejayII double SIM card mobile, the others are the same including circuit design, PCB board, structure and all components. It is special to declare. Only double SIM card mobile was performed for this test.

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1.4. Test Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Took Oiko No	Sporton	Site No.			
Test Site No.	CO01-KS	03CH01-KS			

1.5. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003
- · IC RSS-Gen Issue 3

Remark:

- 1, All test items were verified and recorded according to the standards and without any deviation during the test.
- 2, This report is intention of applying for FCC 15B certification only.

1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
3.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
4.	PC	DELL	MT320	FCC DoC	N/A	Unshielded, 1.8 m
5.	(USB)Mouse	DELL	MO56UC	FCC DoC	shielded, 1.8 m	N/A
6.	(USB)Keyboard	DELL	L100	FCC DoC	shielded, 1.8 m with core	N/A
7.	Printer	HP	Laser Jet 1080	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
8.	Monitor	DELL	E1910Hc	FCC DoC	Shielded, 1.2m	Unshielded, 1.8 m
9.	Signal Generator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

		Test Condition EMI EMI EMI AC RE<1G RE≥1G ⊠		
Item	EUT Configuration			
1.	Charging Mode (EUT with adapter)			
2.	Charging Mode (EUT Link with PC)			Note 1

Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM 850 Idle + Bluetooth Idle + Adapter + Earphone + Camera
AC Conducted Emission	1/2	Mode 2: GSM 1900 Idle + Bluetooth Idle + Adapter + Earphone + MP3
		Mode 3: GSM 850 Idle + Bluetooth Idle + USB Cable(Link with PC) + Earphone + FM Rx
		Mode 1: GSM 850 Idle + Bluetooth Idle + Adapter + Earphone + Camera
Radiated Emissions < 1GHz	1/2	Mode 2: GSM 1900 Idle + Bluetooth Idle + Adapter + Earphone + MP3
		Mode 3: GSM 850 Idle + Bluetooth Idle + USB Cable(Link with PC) + Earphone + FM Rx
Radiated Emissions ≥ 1GHz	1	Mode 1: GSM 850 Idle + Bluetooth Idle + Adapter + Earphone + Camera

Remark:

- 1. The worst case of AC is mode 1; only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 1; only the test data of this mode was reported.

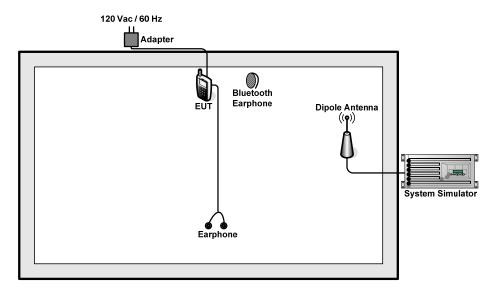
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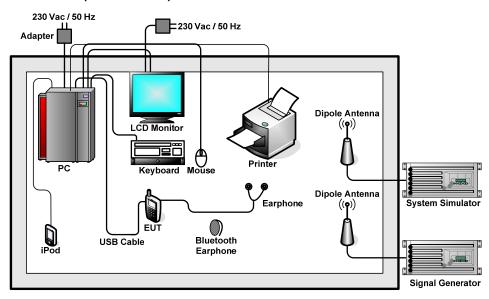


2.2. Connection Diagram of Test System

<EUT with Adapter Mode>



<EUT with USB Cable (Link with PC) Mode>



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2.3. Test Software

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone, and the following programs installed in the EUT were programmed during the test.

- 1. Execute the program, ""Winthrax", installed in PC for active sync files transfer with EUT via USB cable / iPod.
- 2. Make the EUT receive signals from System Simulator or Signal Generator continuously.
- 3. Execute "Music Player" to play MP3 file.
- 4. Turn on camera to capture images.
- 5. Turn on FM function to receive FM signals.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted	limit (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference. 6.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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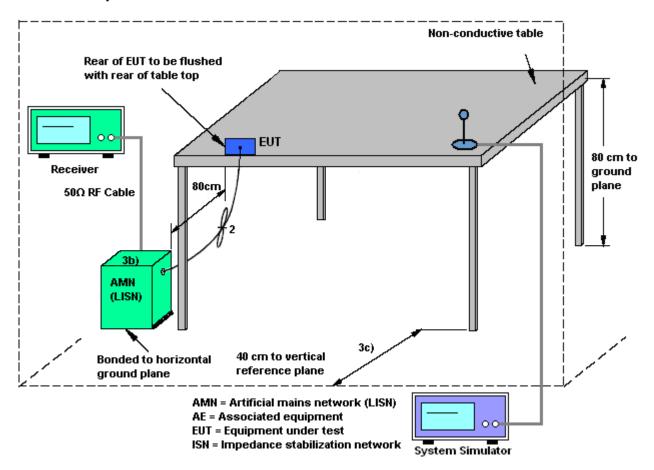
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3.1.4 Test Setup



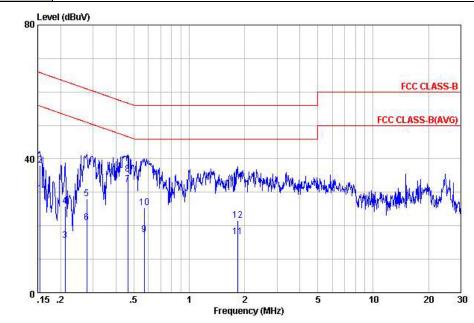
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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~21℃			
Test Engineer :	Chenmy Cheng	Relative Humidity :	40~41%			
Test Voltage :	120Vac / 60Hz	Phase :	Line			
Function Type :	GSM 850 Idle + Bluetooth Id	lle + Adapter + Earpho	ne + Camera			
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.					



Condition: FCC CLASS-B LISN-100807 LINE

Project : (FD)141403 Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
8	MHz	dBu₹	dB	dBu∀	dBuV	dB	dB	Š.
1	0.15	29.67	-26.07	55.74	19.60	-0.07	10.14	Average
2	0.15	38.17	-27.57	65.74	28.10	-0.07	10.14	QP
3	0.21	15.58	-37.56	53.14	5.50	-0.07	10.15	Average
4	0.21	25.78	-37.36	63.14	15.70	-0.07	10.15	QP
5	0.28	27.99	-32.91	60.90	17.89	-0.07	10.17	QP
1 2 3 4 5 6 7 8	0.28	20.99	-29.91	50.90	10.89	-0.07	10.17	Average
7	0.46	32.32	-14.31	46.63	22.20	-0.08	10.20	Average
8	0.46	35.52	-21.11	56.63	25.40	-0.08	10.20	QP
9	0.57	17.43	-28.57	46.00	7.29	-0.08	10.22	Average
10	0.57	25.43	-30.57	56.00	15.29	-0.08	10.22	QP
11	1.83	16.71	-29.29	46.00	6.50	-0.11	10.32	Average
12	1.83	21.71	-34.29	56.00	11.50	-0.11	10.32	QP

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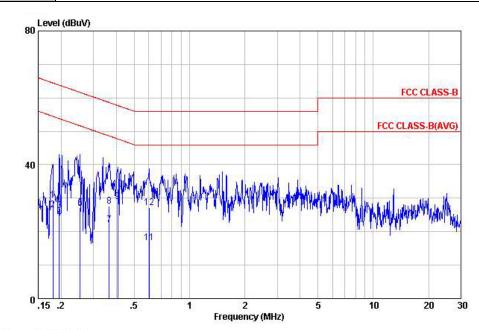
Test Mode: Mode 1 Temperature: 20~21

Test Engineer: Chenmy Cheng Relative Humidity: 40~41%

Test Voltage: 120Vac / 60Hz Phase: Neutral

Function Type: GSM 850 Idle + Bluetooth Idle + Adapter + Earphone + Camera

Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COOl-KS

Condition: FCC CLASS-B LISN-100807 NEUTRAL

Project : (FD)141403 Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
10c	MHz	dBuV	dB	dBuV	dBu₹	dB	dB	Ø
1	0.18	29.47	-34.99	64.46	19.40	-0.08	10.15	QP
2	0.18	26.57	-27.89	54.46	16.50	-0.08	10.15	Average
3	0.20	26.28	-37.52	63.80	16.20	-0.07	10.15	QP
4	0.20	23.98	-29.82	53.80	13.90	-0.07	10.15	Average
1 2 3 4 5 6 7 8	0.25	27.29	-34.35	61.64	17.20	-0.07	10.16	QP
6	0.25	26.99	-24.65	51.64	16.90	-0.07	10.16	Average
7	0.37	22.01	-26.60	48.61	11.91	-0.08	10.18	Average
8	0.37	27.61	-31.00	58.61	17.51	-0.08		QP
9	0.41	29.01	-18.72	47.73	18.90	-0.08	10.19	Average
10	0.41	32.81	-24.92	57.73	22.70	-0.08	10.19	
11	0.60	16.64	-29.36	46.00	6.50	-0.08	10.22	Average
12	0.60	27.14	-28.86	56.00	17.00	-0.08	10.22	OP

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
0.009 - 0.490	2400/F(kHz)	300		
0.490 – 1.705	24000/F(kHz)	30		
1.705 – 30.0	30	30		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

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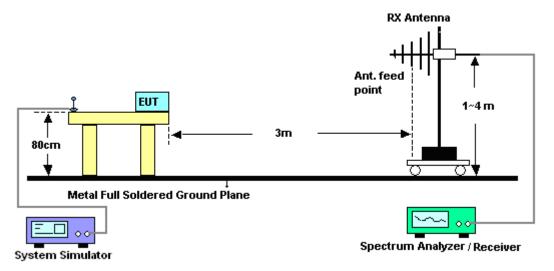


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3.2.3. Test Procedures

- The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
- Emission level (dBuV/m) = 20 log Emission level (uV/m) 8.
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

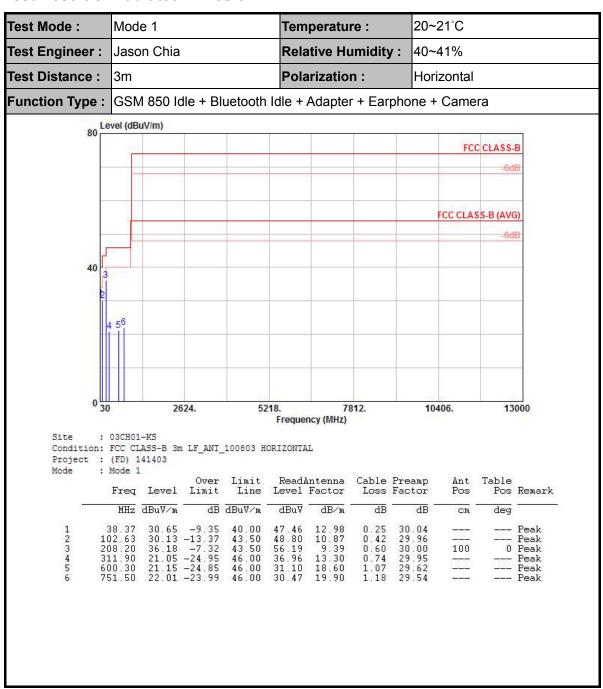


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3.2.5. Test Result of Radiated Emission



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Test Mode: Mode 1 20~21°C Temperature: Test Engineer: Jason Chia **Relative Humidity:** 40~41% Polarization: Test Distance: 3m Vertical GSM 850 Idle + Bluetooth Idle + Adapter + Earphone + Camera Function Type: 80 Level (dBuV/m) FCC CLASS-B 6dB FCC CLASS-B (AVG) 40 0 30 10406. 13000 2624. 5218. 7812. Frequency (MHz) Site : 03CH01-KS Condition: FCC CLASS-B 3m LF_ANT_100803 VERTICAL Project : (FD) 141403 : Mode 1 Mode Over Limit ReadAntenna Freq Level Limit Line Level Factor ReadAntenna Cable Preamp Ant Table Loss Factor Pos Remark dB dBuV/m dBuV dB/m dB MHz dBuV/m deg 38.10 39.68 -0.32 71.85 30.66 -9.34 208.20 35.05 -8.45 533.80 22.34 -23.66 659.10 21.61 -24.39 823.60 22.84 -23.16 0.24 30.06 0.34 30.07 0.60 30.00 0.99 29.69 1.10 29.66 1.26 29.62 1 ! 2 3 40.00 55.80 13.70 100 160 QP 40.00 54.93 5.46 43.50 55.06 9.39 46.00 32.90 18.14 46.00 31.21 18.96 46.00 31.06 20.14 --- Peak --- Peak --- Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 16, 2010	Nov. 15, 2011	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2010	Dec. 06, 2011	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1MHz~18GHz	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060004	30MHz~2GHz	Dec. 09, 2010	Dec. 08, 2011	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-KS)
Actice hore antenna	com-power	AHA-118	701023	1G-18GHz	Nov. 09, 2010	Nov. 08, 2011	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10G-40GHz	Jan. 06, 2011	Jan. 05, 2012	Radiation (03CH01-KS)
SHE-EHF Horn	Schwarzbeck	BBHA9170	BBHA170249	15-40GHz	Oct. 15,2010	Oct. 14,2011	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/00	9G-30GHz	Jul. 29, 2010	Jul. 28, 2011	Radiation (03CH01-KS)
Bluetooth Base Station	R&S	CBT	100783	N/A	Aug. 17, 2010	Aug. 16, 2011	Radiation (03CH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 22, 2010	Jun. 21 2011	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Jan. 07, 2011	Jan. 06, 2012	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Jan. 07, 2011	Jan. 06, 2012	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	N/A	Nov. 10, 2010	Nov. 09, 2011	Conduction (CO01-KS)

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

	Uncerta		
Contribution	dB	Probability Distribution	u(X _i)
Receiver Reading	0.10	Normal (k=2)	0.05
Cable Loss	0.10	Normal (k=2)	0.05
AMN Insertion Loss	2.50	Rectangular	0.63
Receiver Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
Combined Standard Uncertainty Uc(y)		1.13	
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.26		

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

	Uncerta			
Contribution	dB	Probability Distribution	u(X _i)	
Receiver Reading	0.41	Normal (k=2)	0.21	
Antenna Factor Calibration	0.83	Normal (k=2)	0.42	
Cable Loss Calibration	0.25	Normal (k=2)	0.13	
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14	
RCV/SPA Specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site Imperfection	1.43	Rectangular	0.83	
Mismatch	+0.39 / -0.41	U-Shape	0.28	
Combined Standard Uncertainty Uc(y)	1.27			
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54			

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

	Uncertainty of X _i				
Contribution	dB	Probability Distribution	u(X _i)	Ci	C _i * u(X _i)
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site Imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR Γ 1 = 0.197 Antenna VSWR Γ 2 = 0.194 Uncertainty = 20Log(1- Γ 1* Γ 2)	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty Uc(y)	2.36				
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.72				

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