

**FCC Test Report** 

APPLICANT : CT Asia

**EQUIPMENT** : **GSM** mobile phone

BRAND NAME : BLU

MODEL NAME : Samba Elite

FCC ID : YHLBLUSAMBET

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Aug. 16, 2011 and completely tested on Oct. 12, 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

lac-MRA



Report No.: FD082005-04

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: YHLBLUSAMBET Page Number : 1 of 19
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**REVISION HISTORY** 

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FD082005-04	Rev. 01	Initial issue of report	Oct. 20, 2011

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**SUMMARY OF TEST RESULT** 

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	3.1 15.107 AC Conducted Emission		< 15.107 limits	PASS	14.02 dB at
					1.32 MHz
		15.109 Radiated Emission < 15.109 limits		PASS	Under limit
3.2	15.109		< 15.109 limits		7.03 dB at
					311.90 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

#### **YAYUDA**

The fifth Industrial Area of YULV, GONGMING, BAOAN District

# 1.3. Feature of Equipment Under Test

Product Feature & Specification					
Equipment	GSM mobile phone				
Brand Name	BLU				
Model Name	Samba Elite				
FCC ID	YHLBLUSAMBET				
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 Bluetooth : Dipole Antenna				
HW Version	X221-MB-V3.1				
SW Version	X221_6H_BLU_CV7_V001_110718				
Type of Modulation	GSM / GPRS : GMSK Bluetooth (1Mbps) : GFSK				
EUT Stage	Production Unit				

Remark:

The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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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 Cita 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

#### Remark:

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

## 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.	PC	DELL	MT320	FCC DoC	N/A	Unshielded, 1.8 m
3.	Monitor	DELL	ST2220Lb	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
4.	(USB) Mouse	DELL	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
5.	(USB) Keyboard	DELL	SK-8115	FCC DoC	Shielded, 1.8 m with Core	N/A
6.	Printer	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
7.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
8.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A

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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			
Item	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G	
1.	Data application transferred Mode (EUT with PC)		$\boxtimes$	$\boxtimes$	

#### Abbreviations:

EMI AC: AC conducted emissions

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

EMI RE < 1G: EUT radiated emissions < 1GHz</li>

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1	Mode 1: GSM 1900 Idle + Bluetooth Idle + USB Cable (Data Link with PC)
Radiated Emissions < 1GHz	1	Mode 1: GSM 850 Idle + Bluetooth Idle + USB Cable (Data Link with PC)
Radiated Emissions ≥ 1GHz	1	Mode 1: GSM 850 Idle + Bluetooth Idle + USB Cable (Data Link with PC)

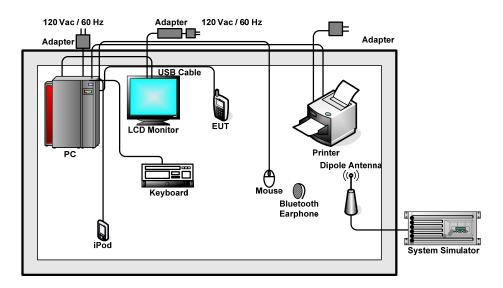
Remark: Link with PC means data application transferred mode between DUT and PC.

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2.2. Connection Diagram of Test System



## 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 execute the program, "Winthrax", installed in PC for active sync files transfer with EUT via USB cable / iPod.

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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		

<sup>\*</sup>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. The EUT link with PC, connect PC 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.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 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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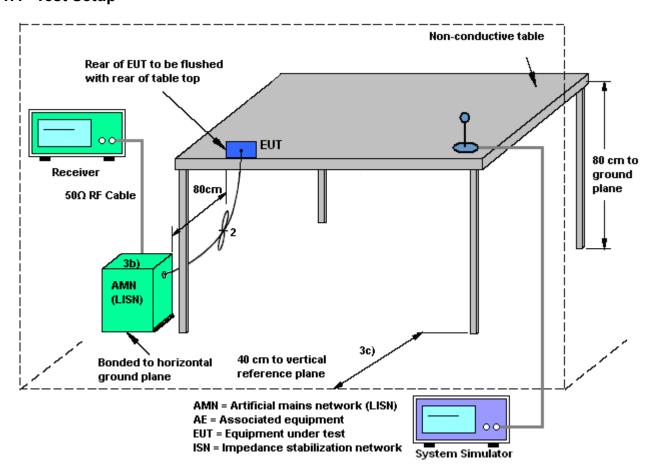
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3.1.4 Test Setup

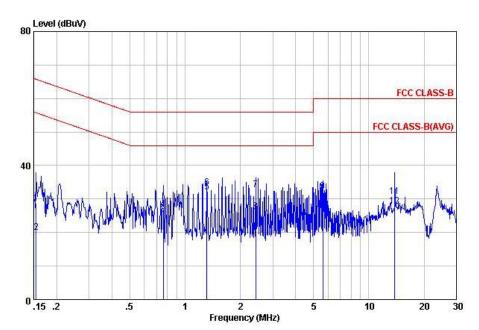


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### 3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	<b>21~22</b> ℃		
Test Engineer :	Shukai Guo	Relative Humidity :	41~42%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Type :	GSM 1900 Idle + Bluetooth Idle + USB Cable (Data Link with PC)				
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.				



: C001-KS

Condition: FCC CLASS-B LISN-100807 LINE Project : (FD) 082005-04

F	req Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz dBuV	dB	dBuV	dBu∀	dB	dB	
2 0 3 0 4 0 5 1 7 2 8 2 9 5 10 5 11 13	15 19.97 76 25.35 76 27.03 32 31.98 32 33.48 42 32.74 42 26.34 62 32.38 62 25.08 84 30.75	-36.97 -35.77 -20.65 -28.95 -14.02 -22.52 -23.26 -19.66 -27.62 -24.92 -29.25	65.74 55.74 46.00 56.00 46.00 56.00 46.00 60.00 50.00 50.00	18.70 9.90 15.20 16.90 21.79 23.29 22.50 16.10 22.10 14.80 20.30 17.40	-0.07 -0.07 -0.09 -0.10 -0.11 -0.11 -0.13 -0.05 -0.05	10.24 10.29 10.29 10.35 10.35 10.41 10.41	Average Average QP Average QP QP

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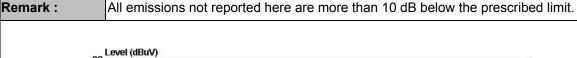


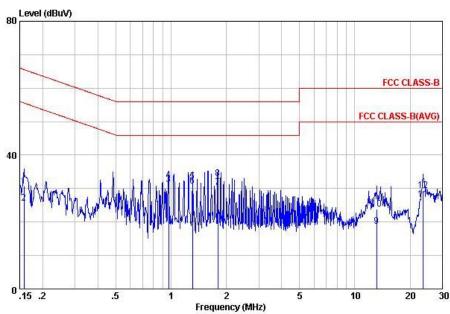
 Test Mode :
 Mode 1
 Temperature :
 21~22°C

 Test Engineer :
 Shukai Guo
 Relative Humidity :
 41~42%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

 Function Type :
 GSM 1900 Idle + Bluetooth Idle + USB Cable (Data Link with PC)





Site : COO1-KS

Condition: FCC CLASS-B LISN-100807 NEUTRAL

Project : (FD) 082005-04

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
50	MHz	dBuV	dB	dBuV	dBuV	dB	dB	ō.
1	0.16	30.65	-34.91	65.56	20.60	-0.09	10.14	QP
2 3 4 5 6 7 8 9	0.16	25.65	-29.91	55.56	15.60	-0.09	10.14	Average
3	0.97	31.17	-14.83	46.00	21.00	-0.09		Average
4	0.97	32.57	-23.43	56.00	22.40	-0.09	10.26	QP
5	1.31	32.09	-23.91	56.00	21.90	-0.10	10.29	QP
6	1.31	30.69	-15.31	46.00	20.50	-0.10	10.29	Average
7	1.80	30.21	-15.79	46.00	20.00	-0.11	10.32	Average
8	1.80	33.01	-22.99	56.00	22.80	-0.11	10.32	QP
9	13.13	18.61	-31.39	50.00	8.20	-0.09	10.50	Average
10	13.13	23.81	-36.19	60.00	13.40	-0.09	10.50	QP
11	23.64	26.72	-23.28	50.00	15.99	0.10	10.63	Average
12	23.64	29.52	-30.48	60.00	18.79	0.10	10.63	QP

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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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)		
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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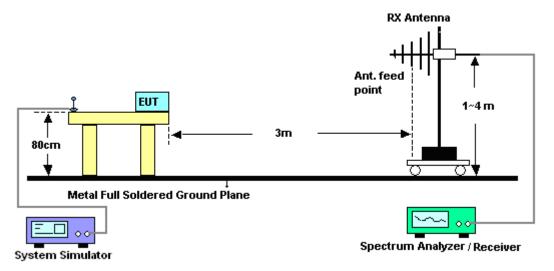
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3.2.3. Test Procedures

- 1. 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
- 8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

#### 3.2.4. Test Setup of Radiated Emission



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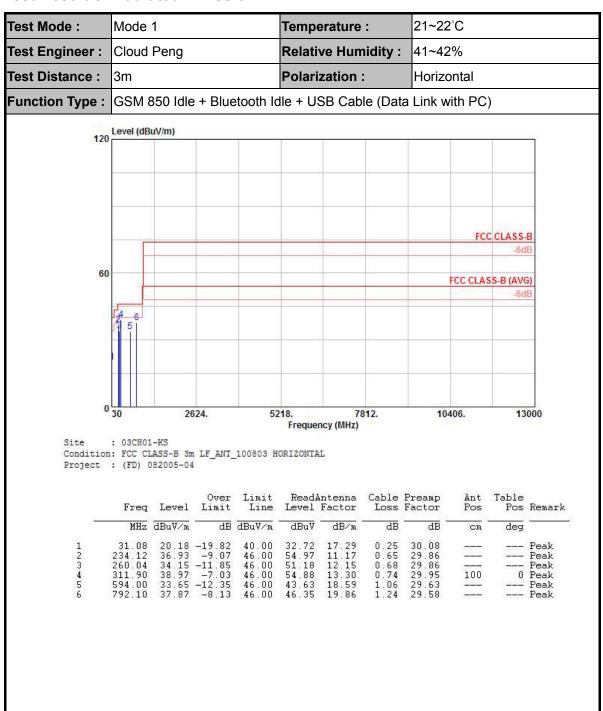
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#### 3.2.5. Test Result of Radiated Emission



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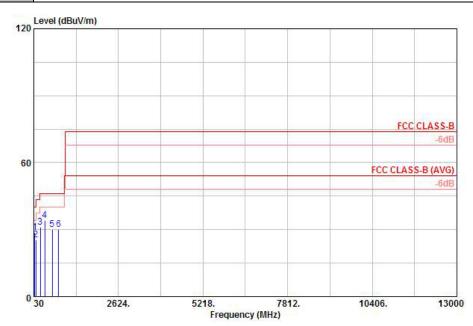


Test Mode: Mode 1 Temperature: 21~22°C

Test Engineer: Cloud Peng Relative Humidity: 41~42%

Test Distance: 3m Polarization: Vertical

Function Type: GSM 850 Idle + Bluetooth Idle + USB Cable (Data Link with PC)



Site : 03CH01-KS

Condition: FCC CLASS-B 3m LF\_ANT\_100803 VERTICAL

Project : (FD) 082005-04

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
-	MHz	$\overline{\mathtt{dBuV/m}}$	dB	$\overline{\mathtt{dBuV/m}}$	dBuV	dB/m	dB		cm	deg	
1	59.97	28.62	-11.38	40.00	53.15	5.30	0.31	30.14	100	0	Peak
2	98.31	25.27	-18.23	43.50	44.68	10.15	0.41	29.97		<u> </u>	Peak
2	234.12	30.96	-15.04	46.00	49.00	11.17	0.65	29.86			Peak
4	363.70	34.26	-11.74	46.00	48.53	14.83	0.82	29.92		4	Peak
5	593.30	30.16	-15.84	46.00	40.14	18.59	1.06	29.63		2000	Peak
6	792 10	29 97	_16 03	46 00	20 45	19 96	1 24	29 50			Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 02, 2011	Jun. 01, 2012	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	ABP000000811	N/A	Nov. 10, 2010	Nov. 09, 2011	Conduction (CO01-KS)
System Simulator	R&S	CMU200	837587/066	Full-Band	Jan. 07, 2011	Jan. 06, 2012	Conduction (CO01-KS)
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	1GHz~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)
Active Horn Antenna	com-power	AHA-118	701023	1GHz -18GHz	Nov. 09, 2010	Nov. 08, 2011	Radiation (03CH01-KS)
SHE-EHF Horn	Schwarzbeck	BBHA9170	BBHA170249	15GHz -40GHz	Oct. 15, 2010	Oct. 14, 2011	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	837587/066	Full-Band	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-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 <sub>i</sub> )	
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 <sub>i</sub> )	
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	+0.39 / -0.41 U-Shape		
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)** 

		<u> </u>				
	Uncertai					
Contribution	dB Probability Distribution		u(X <sub>i</sub> )	C <sub>i</sub>	C <sub>i</sub> * u(X <sub>i</sub> )	
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 $\Gamma$ 1 = 0.197 Antenna VSWR $\Gamma$ 2 = 0.194 Uncertainty = 20Log(1- $\Gamma$ 1* $\Gamma$ 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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# Appendix A. Photographs of EUT

Please refer to Sporton report number EP082005-04 as below.

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