

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT : **GSM** mobile phone

BRAND NAME : BLU MODEL NAME : TANK

FCC ID : YHLBLUTANK

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 28, 2012 and completely tested on Jun. 25, 2012. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown 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.: FG252806

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG252806	Rev. 01	Initial issue of report	Jul. 02, 2012

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	N/A	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d)	N/A	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.4	§2.1049 §22.917(a) §24.238(a)	N/A	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Conducted Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 12.69 dB at 5640.000 MHz
3.8	§2.1055 §22.355 §24.235	RSS-132(4.3) RSS-133(6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

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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

Shenzhen Tinno Mobile Technology Corp.

4/F., H-3 Building, OCT Eastern Industrial park, No.1 Xiangshan East Road, Nanshan District, Shenzhen, P.R.China

1.3 Feature of Equipment Under Test

Product Feature					
Equipment	GSM mobile phone				
Brand Name	BLU				
Model Name	TANK				
FCC ID	YHLBLUTANK				
EUT supports Radios application	GSM/Bluetooth				
HW Version	B1051A_V1.0				
SW Version	BLU_T190Q_V05_GENERIC				
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.

Product Specification subjective to this standard				
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz			
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz			
Maximum Output Power to Antenna	GSM850 : 32.76 dBm GSM1900 : 29.57 dBm			
Antenna Type	Fixed Internal Antenna			
Type of Modulation	GMSK			

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1.4 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (%, Hz, ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.7798	0.03 ppm	248KGXW
Part 24	GSM1900 GSM	GMSK	1.2050	0.04 ppm	250KGXW

1.5 Testing 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 Site No.	Sporton	Site No.	FCC/IC Registration No.		
Test Site No.	TH01-KS	03CH01-KS	149928/4086E-1		

1.6 Applied Standards

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

- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v01
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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1.7 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

- 1. 30 MHz to 9000 MHz for GSM850.
- 30 MHz to 19000 MHz for GSM1900.

Test Modes						
Band	Conducted TCs					
GSM 850	■ GSM Link	■ GSM Link				
GSM 1900	■ GSM Link	■ GSM Link				

Note:

- 1. The maximum power levels are GSM modes for GMSK link.
- 2. Because there are individual antennas for each WWAN and Bluetooth, the co-location test modes are not required.

The conducted power tables are as follows:

Conducted Power (*Unit: dBm)							
Band GSM850 GSM1900							
Channel	251	512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	32.62	32.73	<mark>32.76</mark>	<mark>29.57</mark>	29.30	29.33	

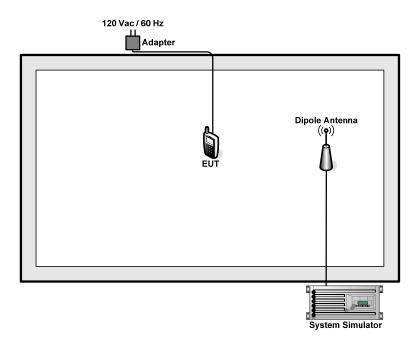
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2.2 Connection Diagram of Test System



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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

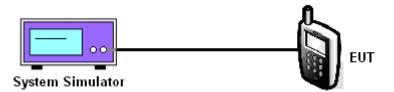
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.

3.1.4 Test Setup



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3.1.5 Test Result of Conducted Output Power

Cellular Band					
Modes	GSM850 (GSM)				
Channel	128	189	251		
Channel	(Low)	(Mid)	(High)		
Frequency (MHz)	824.2	848.8			
Conducted Power (dBm)	32.62	32.73	32.76		
Conducted Power (Watts)	1.83	1.87	1.89		

PCS Band					
Modes	GSM1900 (GSM)				
Channel	512 661 810 (Low) (Mid) (High)				
Frequency (MHz)	1850.2	1909.8			
Conducted Power (dBm)	29.57	29.30	29.33		
Conducted Power (Watts)	0.91	0.85	0.86		

Note: maximum burst average power for GSM.

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3.2 Peak-to-Average Ratio

Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. The following guidelines are offered for performing a CCDF measurement.

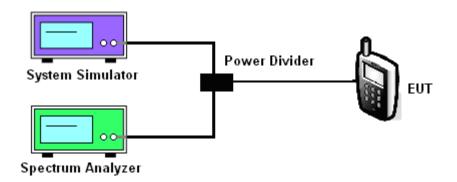
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The CCDF (Complementary Cumulative Distribution Function) of the middle channel for the highest RF powers were measured.

3.2.4 Test Setup



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3.2.5 Test Result of Peak-to-Average Ratio

Cellular Band					
Modes	GSM850 (GSM)				
Channal	128	189	251		
Channel	(Low)	(Mid)	(High)		
Frequency (MHz)	824.2	836.4	848.8		
Peak-to-Average Ratio (dB)	0.09	0.09	0.06		

PCS Band					
Modes	GSM1900 (GSM)				
Channel	512 661 810 (Low) (Mid) (High				
Frequency (MHz)	1850.2	1880	1909.8		
Peak-to-Average Ratio (dB)	0.06	0.07	0.07		

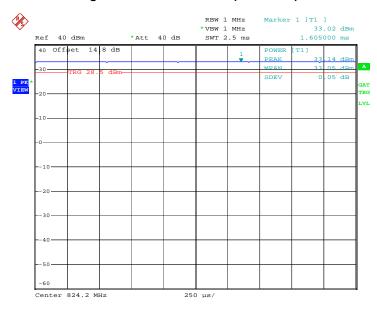
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3.2.6 Test Result (Plots) of Peak-to-Average Ratio

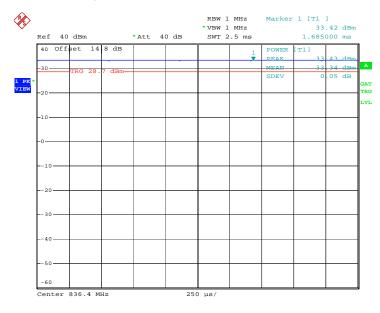
Band: GSM 850 Test Mode: GSM Link

Peak-to-Average Ratio on Channel 128 (824.2 MHz)



Date: 4.JUN.2012 19:36:32

Peak-to-Average Ratio on Channel 189 (836.4 MHz)

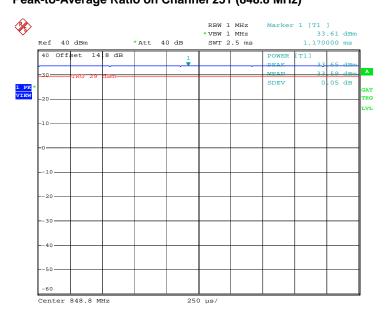


Date: 4.JUN.2012 19:37:40

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Peak-to-Average Ratio on Channel 251 (848.8 MHz)



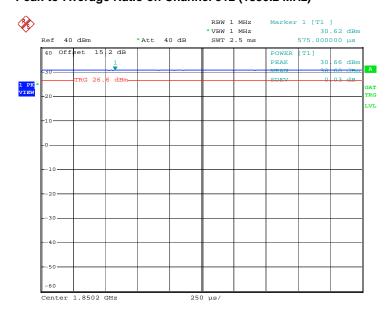
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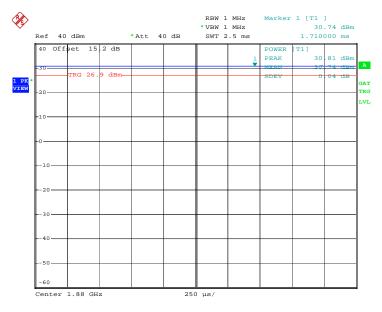
Band: GSM 1900 Test Mode: GSM Link

Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 4.JUN.2012 20:13:35

Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 4.JUN.2012 20:15:02

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Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



Date: 4.JUN.2012 20:16:18

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3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

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3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- 1. The EUT was placed on a turntable with 1.0 meter height in a fully anechoic chamber.
- 2. The EUT was set at 1.2 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 4. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 5. Taking the record of maximum ERP/EIRP.
- 6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. The conducted power at the terminal of the dipole antenna is measured.
- 8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 9. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna.

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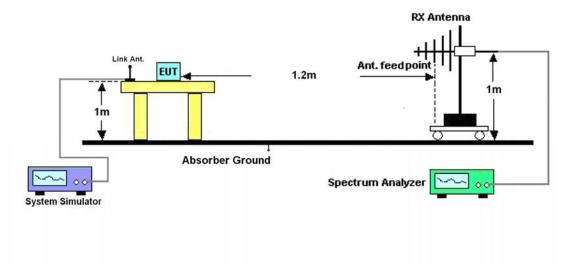
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3.3.4 Test Setup



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3.3.5 Test Result of ERP

	GSM850 (GSM) Radiated Power ERP						
		Hoi	rizontal Polariza	tion			
Frequency	Rt	Rs	Ps	Gs	ERP	ERP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)	
824.20	-19.64	-48.12	0.00	-1.08	27.40	0.5495	
836.40	-18.43	-48.28	0.00	-0.93	28.92	0.7798	
848.80	-18.85	-48.35	0.00	-0.76	28.74	0.7482	
		Ve	ertical Polarizati	on			
Frequency Rt Rs Ps Gs ERP ERP						ERP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)	
824.20	-37.78	-47.97	0.00	-1.08	9.11	0.0081	
836.40	-36.54	-48.01	0.00	-0.93	10.54	0.0113	
848.80	-37.44	-48.05	0.00	-0.76	9.85	0.0097	

3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP						
		Но	rizontal Polariza	tion			
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)	
1850.20	-23.29	-51.88	0.00	1.96	30.55	1.1350	
1880.00	-24.22	-52.99	0.00	2.00	30.77	1.1940	
1909.80	-25.69	-54.28	0.00	1.98	30.57	1.1402	
		V	ertical Polarizati	on			
Frequency Rt Rs Ps Gs EIRP EIRF (MHz) (dBm) (dBm) (dBm) (dBm) (W)							
1850.20	-23.28	-52.13	0.00	1.96	30.81	1.2050	
1880.00	-24.56	-53.17	0.00	2.00	30.61	1.1508	
1909.80	-25.81	-54.13	0.00	1.98	30.30	1.0715	

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3.4 Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

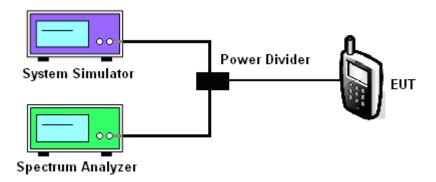
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The 99% occupied bandwidth and 26 dB bandwidth of the middle channel for the highest RF powers were measured.

3.4.4 Test Setup



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3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band					
Modes		GSM850 (GSM)			
Channel	128	189	251		
	(Low)	(Mid)	(High)		
Frequency (MHz)	824.2	836.4	848.8		
99% OBW (KHz)	242.00	248.00	244.00		
26dB BW (KHz)	312.00	312.00	310.00		

PCS Band					
Modes		GSM1900 (GSM)			
Channel	512	661	810		
Channel	(Low)	(Mid)	(High)		
Frequency (MHz)	1850.2 1880 1909.8				
99% OBW (KHz)	250.00	244.00	248.00		
26dB BW (KHz)	318.00	318.00	310.00		

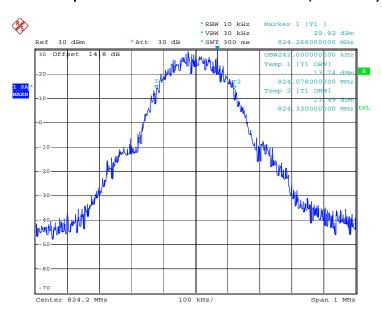
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3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

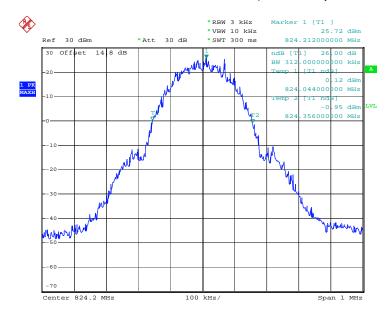
Band :	GSM 850	Test Mode :	GSM Link

99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 4.JUN.2012 19:52:49

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 4.JUN.2012 19:51:31

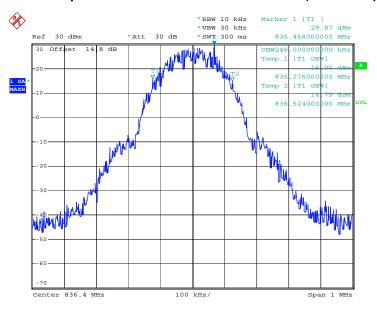
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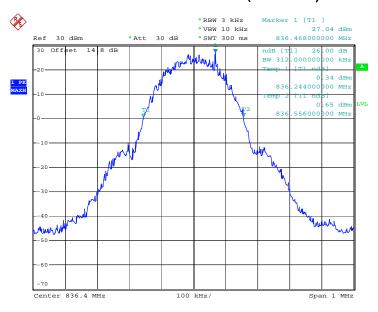
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Date: 4.JUN.2012 19:53:15

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



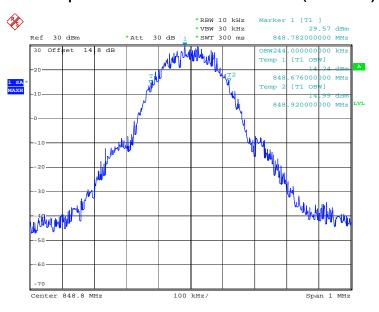
Date: 4.JUN.2012 20:00:25

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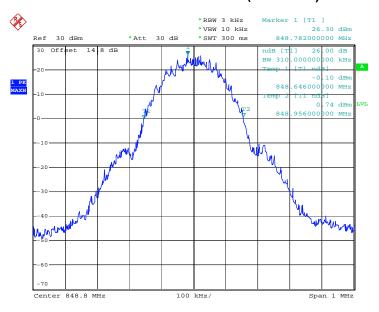
Report No.: FG252806

99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 4.JUN.2012 19:53:41

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 4.JUN.2012 19:52:23

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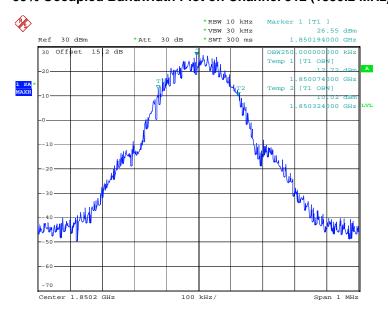
GSM 1900

Band:

Test Mode:

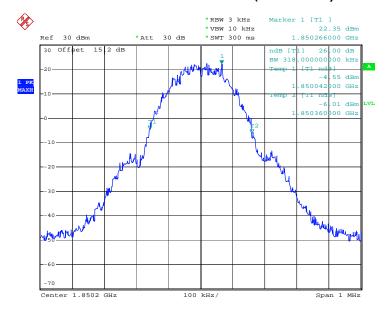
GSM Link

99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 4.JUN.2012 20:07:49

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 4.JUN.2012 20:06:30

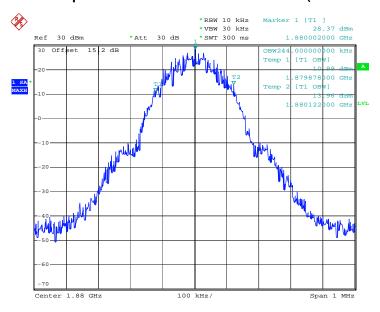
SPORTON INTERNATIONAL (KUNSHAN) INC.

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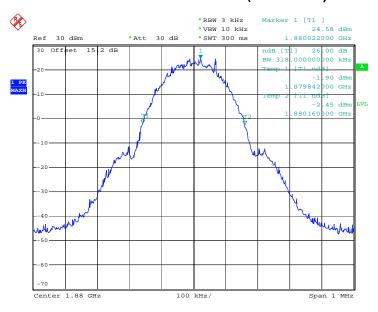
Report No.: FG252806

99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 4.JUN.2012 20:08:15

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



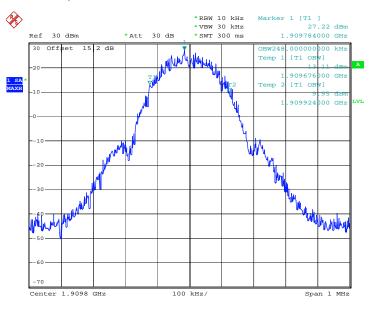
Date: 4.JUN.2012 20:30:50

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUTANK Page Number : 27 of 52
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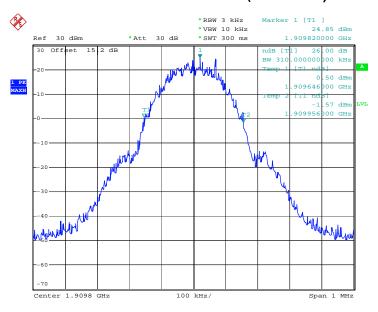
Report No.: FG252806

99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 4.JUN.2012 20:08:40

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 4.JUN.2012 20:07:22

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3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

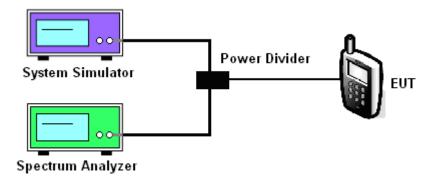
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

3.5.4 Test Setup



SPORTON INTERNATIONAL (KUNSHAN) INC.

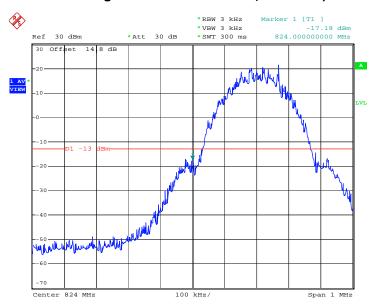
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUTANK Page Number : 29 of 52
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3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-17.02dBm	Measurement Value :	-17.19dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 4.JUN.2012 19:55:06

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

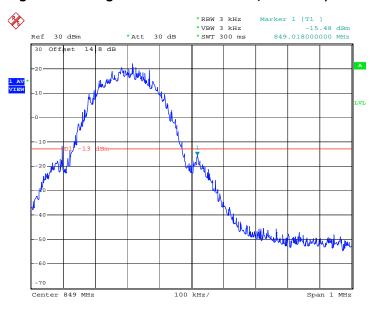
For example, -17.19dBm + 0.17dB = -17.02dBm

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Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-15.31dBm	Measurement Value :	-15.48dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 4.JUN.2012 19:55:32

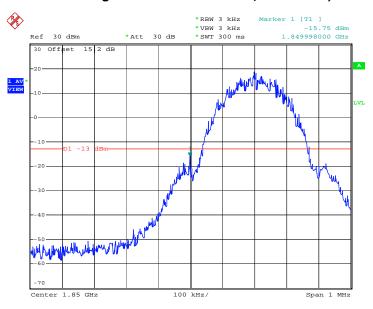
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.25dB	Maximum 26dB Bandwidth :	0.318MHz
Band Edge :	-15.50dBm	Measurement Value :	-15.75dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 4.JUN.2012 20:10:05

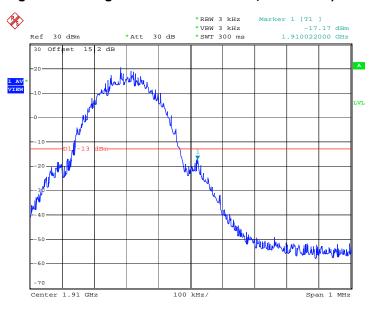
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.25dB	Maximum 26dB Bandwidth :	0.318MHz
Band Edge :	-16.92dBm	Measurement Value :	-17.17dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 4.JUN.2012 20:10:31

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Conducted Spurious Emission Measurement 3.6

Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

- The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The middle channel for the highest RF power within the transmitting frequency was measured.
- 3. The conducted spurious emission for the whole frequency range was taken.

3.6.4 Test Setup



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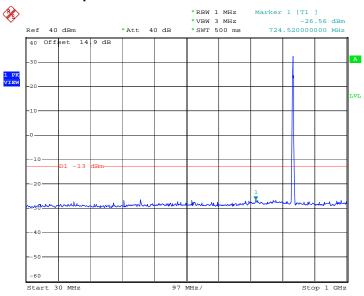
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

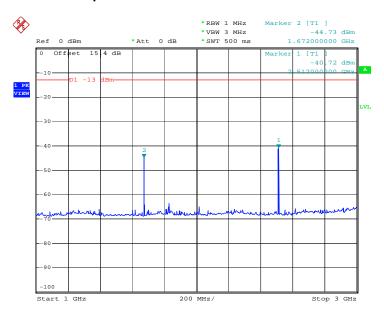
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 28.JUN.2012 10:30:31

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



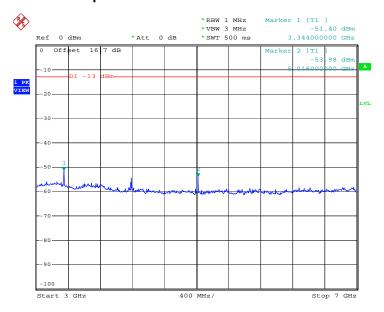
Date: 28.JUN.2012 10:31:33

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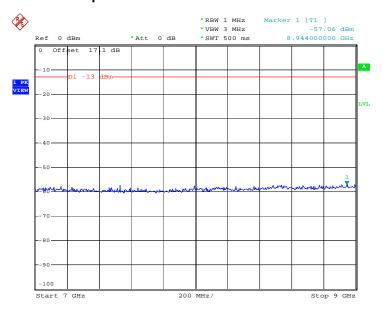
Report No. : FG252806

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 28.JUN.2012 10:32:45

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



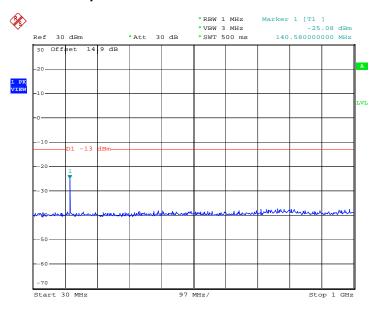
Date: 28.JUN.2012 10:33:32

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUTANK Page Number : 36 of 52
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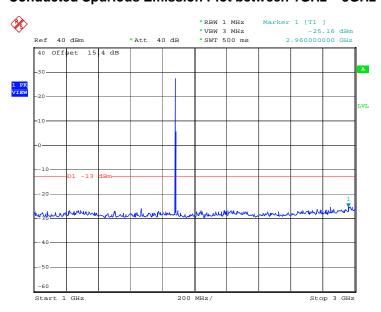
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 4.JUN.2012 20:17:10

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



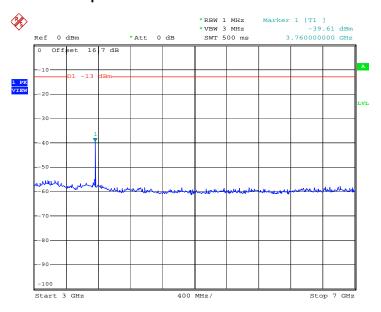
Date: 4.JUN.2012 20:18:00

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUTANK Page Number : 37 of 52
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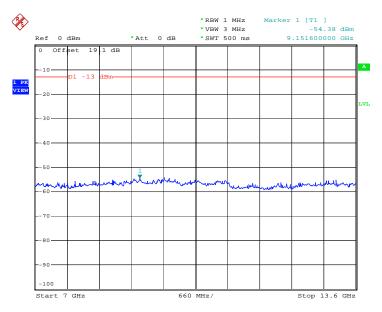
Report No. : FG252806

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 4.JUN.2012 20:19:22

Conducted Emission Plot between 7GHz ~ 13.6GHz



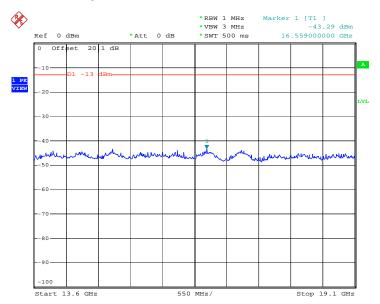
Date: 4.JUN.2012 20:20:01

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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 4.JUN.2012 20:20:36

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3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

3.7.3 Test Procedures

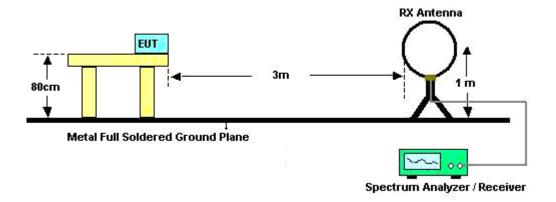
- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15



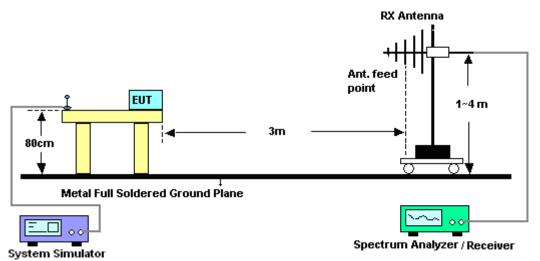
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3.7.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



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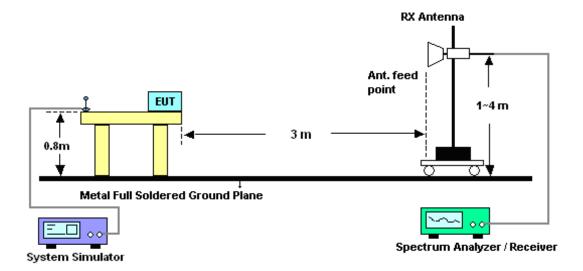
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For radiated emissions above 1GHz



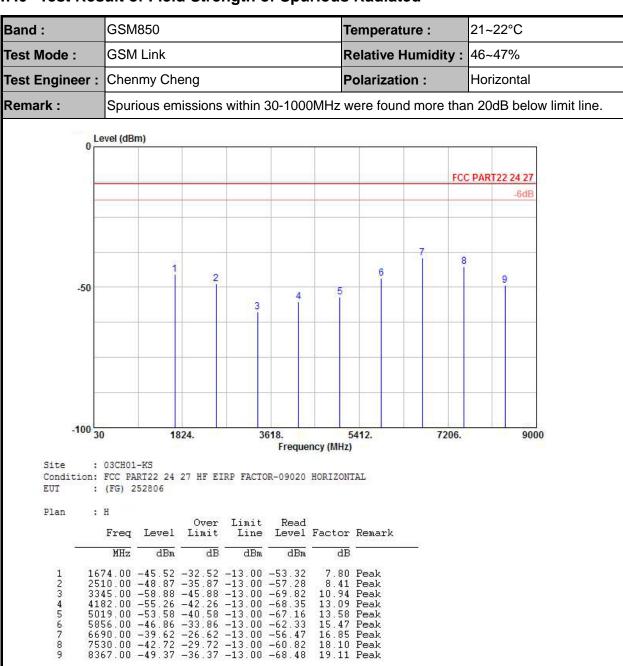
3.7.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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3.7.6 Test Result of Field Strength of Spurious Radiated



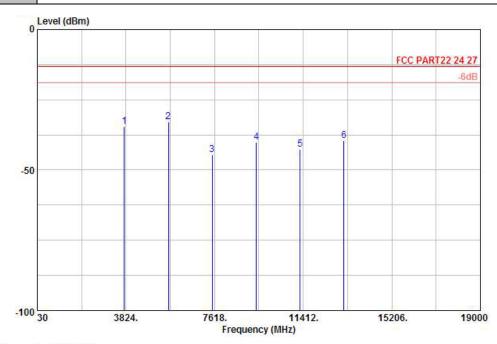
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Band :	GSM850	GSM850			perature :		21~22°C
Test Mode :	GSM Link			Rela	tive Humid	lity:	46~47%
Test Engineer :	Chenmy C	heng		Pola	rization :	'	Vertical
Remark :	Spurious e	missions wi	thin 30-100	0MHz were	found more	e than	20dB below limit line.
0	evel (dBm)						
						FCC	PART22 24 27
							-6dB
i							
		1					
V0609		2	3		6 7	8	
-50			4	5	Î		9
	-						
-100						7000	
3.05	30	1824.	3618. Frequ	5412 ency (MHz)	2.	7206.	9000
Condition	03CH01-KS FCC PART22 2 (FG) 252806	4 27 HF EIRP	FACTOR-09020) VERTICAL			
Plan	Н	Over I	imit Reac	18			
25	Freq Leve			. Factor Re	mark		
	MHz dB		dBm dBm				
2 2 3 3 4 4 5 5 6 5	574.00 -36.2 510.00 -45.8 345.00 -47.6 182.00 -53.2 019.00 -56.2 356.00 -49.1 590.00 -46.6 530.00 -46.0	7 -32.87 -1 5 -34.65 -1 3 -40.23 -1 4 -43.24 -1 5 -36.15 -1	.3.00 -54.28 .3.00 -58.59 .3.00 -66.32 .3.00 -69.82 .3.00 -64.62	8 8.41 Pe 9 10.94 Pe 2 13.09 Pe 2 13.58 Pe 2 15.47 Pe	ak ak ak ak ak ak		

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Band :	GSM1900	Temperature :	21~22°C
Test Mode :	GSM Link	Relative Humidity :	46~47%
Test Engineer :	Chenmy Cheng	Polarization :	Horizontal
			<u>I</u>

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site : 03CH01-KS

Condition: FCC PART22 24 27 HF EIRP FACTOR-09020 HORIZONTAL

EUT : (FG) 252806

Plan : E2

an	: 12 Freq	Level	Over Limit			Factor	Remark
	MHz	dB m	dB	dBm	dBm	dB	
1	3760.00	-34.45	-21.45	-13.00	-48.16	13.71	Peak
2	5640.00	-32.91	-19.91	-13.00	-47.32	14.41	Peak
3	7520.00	-44.59	-31.59	-13.00	-62.69	18.10	Peak
4	9400.00	-40.02	-27.02	-13.00	-59.59	19.57	Peak
5	11280.00	-42.61	-29.61	-13.00	-63.55	20.94	Peak
6	13160.00	-39.66	-26.66	-13.00	-64.01	24.35	Peak

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Band :	GSM1	GSM1900			To	emperati	ure :	21~2	22°C		
Test Mode :	GSM L	ink				R	elative H	lumidity :	46~4	17%	
Test Engineer :	Chenn	ny Cher	ng			Р	olarizati	on :	Verti	cal	
Remark :	Spurio	us emis	ssions v	within 30	D-1000N	ЛHz w	ere foun	d more tha	an 20d	IB below lim	it line.
0	Level (dBr	n)								22	
20									FCC PAR	RT22 24 27	
113										-6dB	
				2 							
			1		3	4	5	6			
							11				
-50											
1											
100											
-100	30	38	324.	7	618. Freque	ncy (MH	11412. z)	1520	06.	19000	
Condition	: 03CH01 : FCC PA : (FG) 2	RT22 24	27 HF E	IRP FACTO	DR-09020	VERTIC	AL				
Plan	: E2		Over	Limit	Read						
50	Freq	Level	Limit	Line	Level	Facto	r Remark				
-	MHz	dBm	₫B		dBm		В				
2 5 3 7 4 9	760.00 640.00 520.00 400.00	-25.69 -35.12 -36.00	-12.69 -22.12 -23.00	-13.00 -13.00 -13.00	-40.10 -53.22 -55.57	14.4 18.1 19.5	1 Peak 0 Peak 7 Peak				
5 11	.280.00 160.00	-38.86	-25.86	-13.00	-59.80	20.9	4 Peak				

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3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.8.2 Measuring Instruments

See list of measuring instruments of this test report.

3.8.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
- 4. If the EUT cannot be turned on at -30°C, the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

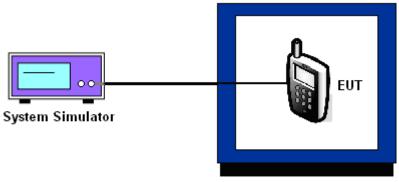
3.8.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.



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3.8.5 Test Setup



Thermal Chamber

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3.8.6 Test Result of Temperature Variation

Band :	GSM 850	Channel:	189
Limit (ppm) :	2.5	Frequency:	836.4 MHz

	GSM				
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result		
-30	-22	-0.03			
-20	-20	-0.02			
-10	-18	-0.02			
0	-15	-0.02	1		
10	-14	-0.02			
20	-13	-0.02	PASS		
30	-12	-0.01			
40	-9	-0.01			
50	-7	-0.01			
55	-5	-0.01			

Band :	GSM 1900	Channel:	661
Limit (ppm):	2.5	Frequency:	1880.0 MHz

_ ,	GS	6M	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-26	-0.01	
-20	-22	-0.01	
-10	-36	-0.02	
0	-27	-0.01	
10	21	0.01	
20	26	0.01	PASS
30	29	0.02	
40	31	0.02	
50	36	0.02	
55	39	0.02	

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3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189		3.7	-17	-0.02		
	GSM	BEP	-13	-0.02		DAGG
		4.2	-20	-0.02	0.5	
	GSM	3.7	68	0.04	2.5	PASS
GSM 1900 CH661		BEP	66	0.03		
		4.2	77	0.04		

Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.4 V.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Jun. 04, 2012~ Jun. 28, 2012	Dec. 29, 2012	Conducted (TH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Jun. 04, 2012~ Jun. 28, 2012	Dec. 29, 2012	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 23, 2011	Jun. 04, 2012~ Jun. 28, 2012	Aug. 22, 2012	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 30, 2011	Jun. 04, 2012~ Jun. 28, 2012	Dec. 29, 2012	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 09, 2011	Jun. 05, 2012	Nov. 08, 2012	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Jun. 05, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Jun. 05, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Jun. 05, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060007	30MHz~2GHz	Dec. 30, 2011	Jun. 05, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Jun. 05, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
SHE-EHF Horn	Schwarzbeck	BBHA9170	BBHA170249	15GHz-40GHz	Oct. 11, 2011	Jun. 05, 2012	Oct. 10, 2012	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/00	9kHz~30 MHz	Jul. 28, 2011	Jun. 05, 2012	Jul. 27, 2012	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	116456	Full-Band	Sep. 20, 2011	Jun. 05, 2012	Sep. 19, 2012	Radiation (03CH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 23, 2011	Jun. 05, 2012	Aug. 22, 2012	Radiation (03CH01-KS)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.54
Confidence of 95% (U = 2Uc(y))	2.54

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

Measuring Uncertainty for a Level of	
Confidence of 95%	4.72
(U = 2Uc(y))	

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP252806 as below.

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