

Report No.: FG360409

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT : Quad-band/GPRS/GSM Mobile Phone

BRAND NAME : BLU

MODEL NAME : Samba TV, Samba W FCC ID : YHLBLUSAMBATV

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jun. 04, 2013 and completely tested on Jun. 19, 2013. We, SPORTON INTERNATIONAL (SHENZHEN) 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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REVISION HISTORY

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG360409	Rev. 01	Initial issue of report	Jul. 03, 2013

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4)	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d)	RSS-132 (5.4) RSS-133(6.4)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	RSS-132(5.4) 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(b)	RSS-GEN(4.6.1) RSS-133(2.3)	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Conducted Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 5.29 dB at 2510.000 MHz
3.8	§2.1055 §22.355 §24.235	RSS-132(5.3) 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

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2 Manufacturer

Zechin

Unit804, 8th Floor Desay Tech Building Gaoxin Road South, Nanshan District Shenzhen, China

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1.3 Feature of Equipment Under Test

Product Feature				
Equipment	Quad-band/GPRS/GSM Mobile Phone			
Brand Name	BLU			
Model Name	Samba TV, Samba W			
FCC ID	YHLBLUSAMBATV			
EUT supports Radios application	GSM/GPRS/WLAN 11bgn/Bluetooth 3.0			
HW Version	V0.1			
SW Version	BLU_Q170T_60A_V02_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.

1.4 Product Specification of Equipment Under Test

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 : 31.83 dBm GSM1900 : 28.91 dBm			
Antenna Type	Fixed Internal Antenna			
Antenna Gain	3dBi for GSM850 2dBi for GSM850			
Type of Modulation	GSM: GMSK GPRS: GMSK			

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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1.6 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	0.7868	0.04 ppm	244KGXW
Part 24	GSM1900 GSM	GMSK	0.9524	0.03 ppm	248KGXW

1.7 Testing Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.			
	TEL: +86-755- 3320-2398			
Test Site No.	Sporton Site No. FCC/IC Registration No.			
lest site NO.	TH01-SZ	03CH01-SZ	831040/4086F-1	

1.8 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 v02

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. 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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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 (Y Plane).

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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	Radiated TCs	Conducted TCs				
GSM 850	■ GSM Link	■ GSM Link				
GSM 1900	■ GSM Link	■ GSM Link				

Note: The maximum power levels are GSM modes for GMSK link, only these modes were used for all tests.

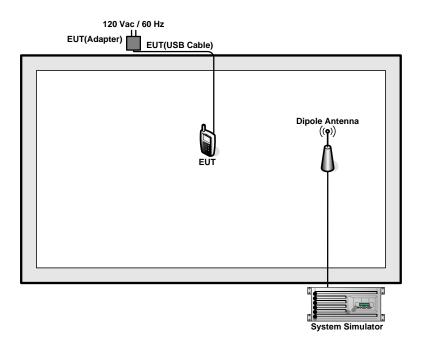
The conducted power tables are as follows:

Conducted Power (*Unit: dBm)							
Band		GSM850		GSM1900			
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM (GMSK, 1 Tx slot)	31.80	31.81	<mark>31.83</mark>	28.46	28.59	<mark>28.91</mark>	
GPRS (GMSK, 1 Tx slot) – CS1	31.78	31.79	31.81	28.45	28.58	28.90	
GPRS (GMSK, 2 Tx slots) – CS1	31.12	31.12	31.20	27.85	27.97	28.33	
GPRS (GMSK, 3 Tx slots) – CS1	29.51	29.47	29.57	26.26	26.38	26.75	
GPRS (GMSK, 4 Tx slots) - CS1	28.43	28.36	28.45	25.14	25.28	25.65	

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m

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2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7 dB and 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$7.5 + 10 = 17.5$$
 (dB)

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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.

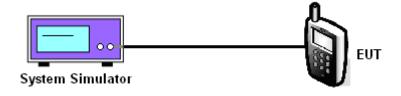
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to base station.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

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 (Low) 189 (Mid) 251 (High)				
Frequency (MHz)	824.2 836.4 848.8				
Conducted Power (dBm)	31.80	31.81	31.83		
Conducted Power (Watts)	1.51	1.52	1.52		

PCS Band					
Modes	GSM1900 (GSM)				
Channel	512 (Low) 661 (Mid) 810 (High)				
Frequency (MHz)	1850.2 1880 1909.8				
Conducted Power (dBm)	28.46	28.59	28.91		
Conducted Power (Watts)	0.70 0.72 0.78				

Note: Maximum burst average power for GSM.

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3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

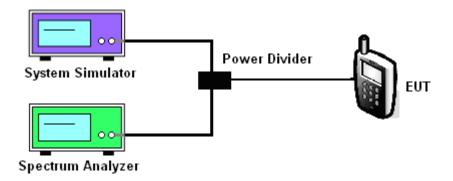
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
- 2. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector in spectrum analyzer for second trace.
 - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator synchronized with the spectrum analyzer.
- 3. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



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3.2.5 Test Result of Peak-to-Average Ratio

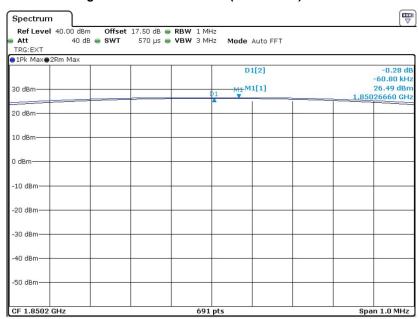
PCS Band					
Modes	GSM1900 (GSM)				
Channel	512 (Low) 661 (Mid) 810 (High)				
Frequency (MHz)	1850.2 1880 1909.8				
Peak-to-Average Ratio (dB)	0.28	0.29	0.29		

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

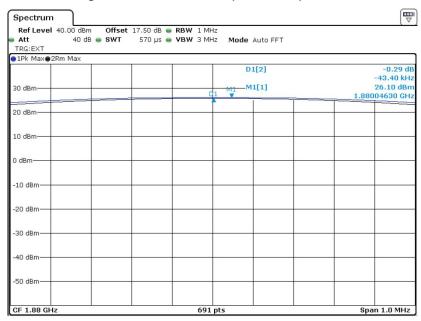
Band :	GSM 1900	Test Mode :	GSM Link (GMSK)
			` ,

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



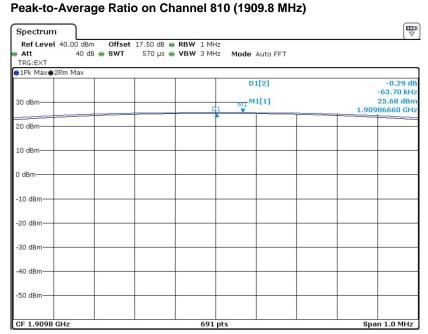
Date: 14.JUN.2013 04:51:41

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



Date: 14.JUN.2013 04:54:39

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Date: 14.JUN.2013 04:52:11

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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 v02. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

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 1.5 meter height in a fully anechoic chamber.
- 2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
- GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
 UMTS operating modes: Set RBW= 100 KHz, VBW= 300 KHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per KDB 971168 D01.
- 4. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 6. Taking the record of maximum ERP/EIRP.
- 7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. The conducted power at the terminal of the dipole antenna is measured.
- 9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 10. 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.

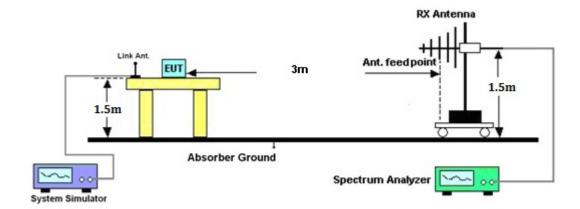
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3.3.4 Test Setup



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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	-20.44	-48.12	0.00	-1.08	26.60	0.4569
836.40	-19.06	-48.28	0.00	-0.93	28.29	0.6750
848.80	-18.63	-48.35	0.00	-0.76	28.96	0.7868
		Ve	ertical Polarizati	on		
Frequency	Rt	Rs	Ps	Gs	ERP	ERP
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)
824.20	-32.96	-47.97	0.00	-1.08	13.93	0.0247
836.40	-31.13	-48.01	0.00	-0.93	15.95	0.0394
848.80	-30.06	-48.05	0.00	-0.76	17.23	0.0529

3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP					
		Hoi	rizontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-25.67	-51.88	0.00	1.96	28.17	0.6569
1880.00	-25.73	-52.99	0.00	2.00	29.26	0.8434
1909.80	-26.47	-54.28	0.00	1.98	29.79	0.9524
		Ve	ertical Polarizati	on		
Frequency (MHz)						
1850.20	-29.09	-52.13	0.00	1.96	25.00	0.3159
1880.00	-29.45	-53.17	0.00	2.00	25.72	0.3731
1909.80	-30.29	-54.13	0.00	1.98	25.82	0.3815

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3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 99% 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.

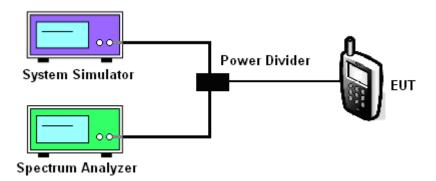
3.4.2 Measuring Instruments

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 RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.
- 4. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

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 (Low) 189 (Mid) 251 (High)				
Frequency (MHz)	824.2 836.4 848.8				
99% OBW (kHz)	242.00	242.00	244.00		
26dB BW (kHz)	312.00	308.00	308.00		

PCS Band					
Modes		GSM1900 (GSM)			
Channel	512 (Low) 661 (Mid) 810 (High)				
Frequency (MHz)	1850.2 1880 1909.8				
99% OBW (kHz)	242.00	244.00	248.00		
26dB BW (kHz)	312.00	310.00	310.00		

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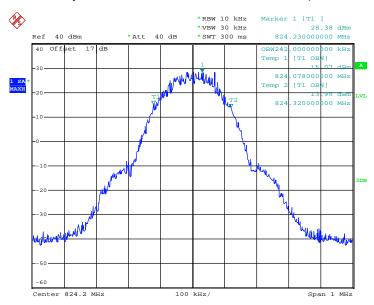
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3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

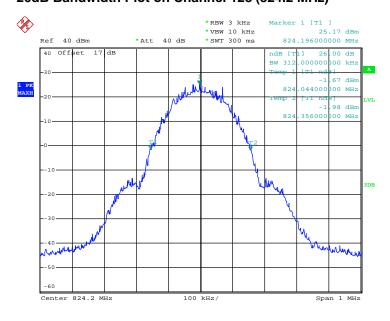
Band :	GSM 850	Test Mode :	GSM Link (GMSK)
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 7.JUN.2013 20:26:11

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

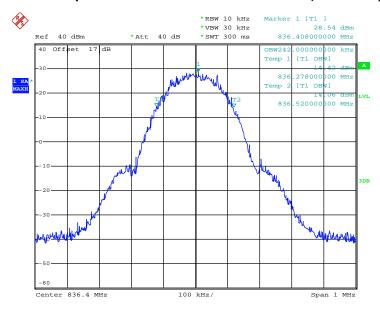


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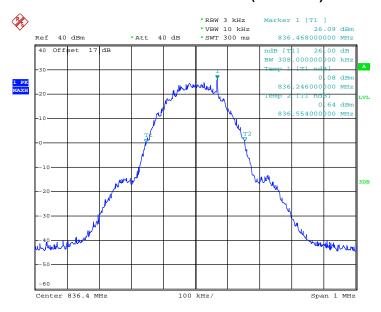






Date: 7.JUN.2013 20:24:09

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



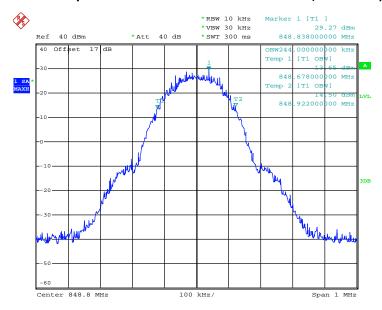
Date: 7.JUN.2013 20:12:38

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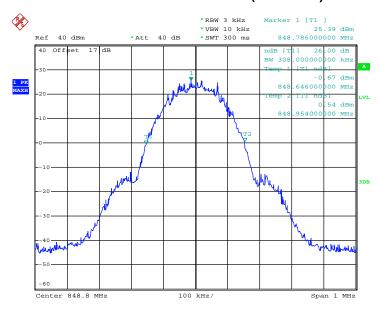
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Date: 7.JUN.2013 20:18:00

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 7.JUN.2013 20:16:00

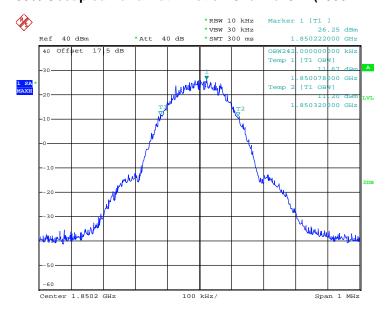
TEL: 86-755-3320-2398 FCC ID: YHLBLUSAMBATV Page Number : 23 of 49
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FCC RF Test Report

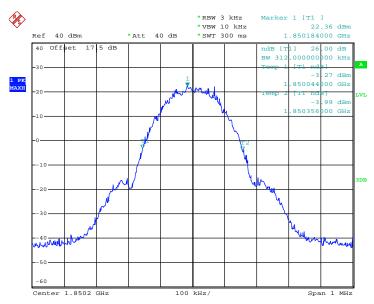
Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



Date: 7.JUN.2013 21:59:52

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



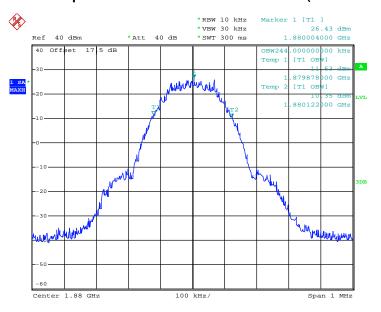
Date: 7.JUN.2013 22:10:03

TEL: 86-755-3320-2398 FCC ID: YHLBLUSAMBATV Page Number : 24 of 49
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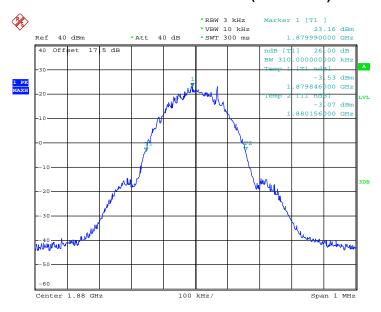
Report No.: FG360409

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



Date: 7.JUN.2013 21:56:17

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



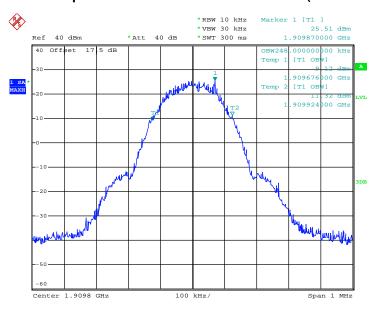
Date: 7.JUN.2013 22:13:41

TEL: 86-755-3320-2398 FCC ID: YHLBLUSAMBATV Page Number : 25 of 49
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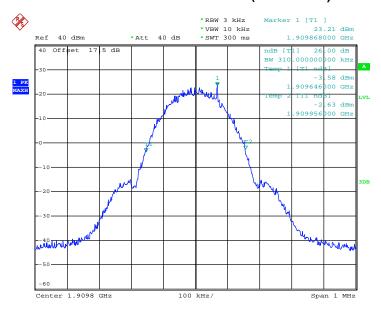
Report No.: FG360409

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



Date: 7.JUN.2013 21:45:55

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 7.JUN.2013 22:19:48

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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 RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.
- 4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 5. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.5.4 Test Setup



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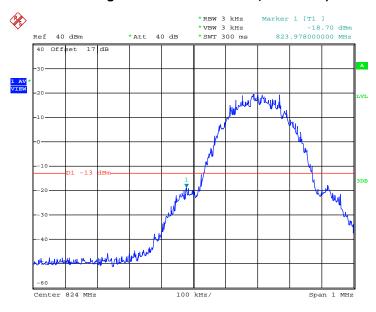
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3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-18.53dBm	Measurement Value :	-18.70dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 7.JUN.2013 20:39:34

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

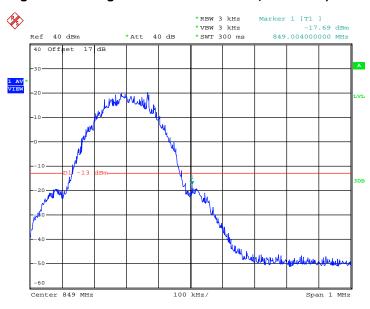
For example, -18.70dBm + 0.17dB = -18.53dBm

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Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-17.52dBm	Measurement Value :	-17.69dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 7.JUN.2013 20:42:59

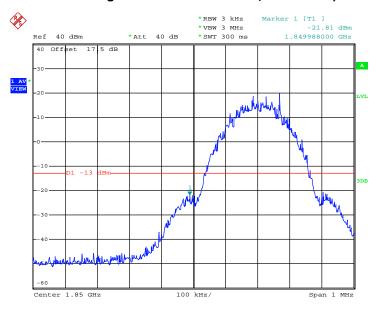
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-21.64dBm	Measurement Value :	-21.81dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 7.JUN.2013 21:29:41

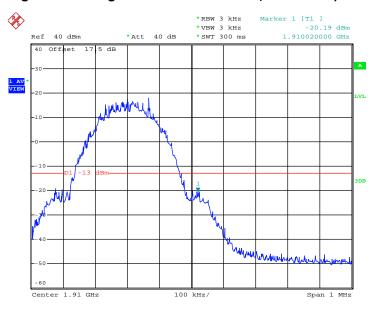
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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F

Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-20.02dBm	Measurement Value :	-20.19dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 7.JUN.2013 21:40:51

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

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3.6 Conducted Spurious Emission Measurement

3.6.1 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

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.

3.6.4 Test Setup



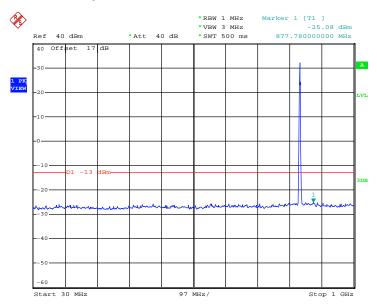
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

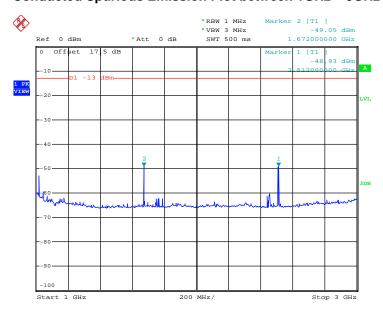
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 7.JUN.2013 20:55:13

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



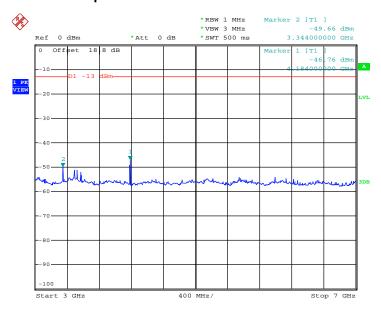
Date: 7.JUN.2013 21:03:10

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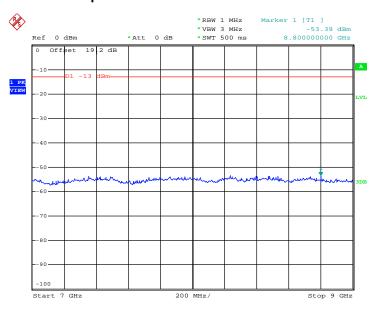
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 7.JUN.2013 21:09:47

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 7.JUN.2013 21:11:21

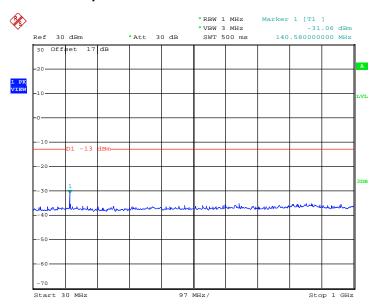
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Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz

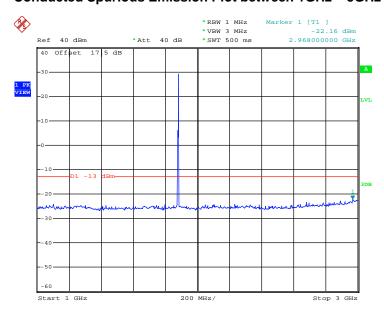
Conducted Spurious Emission Plot between 30MHz ~ 1GHz

Report No.: FG360409



Date: 7.JUN.2013 21:22:36

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



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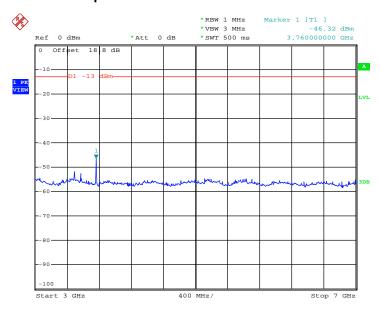
Report Issued Date: Jul. 03, 2013

Date: 7.JUN.2013 21:24:21



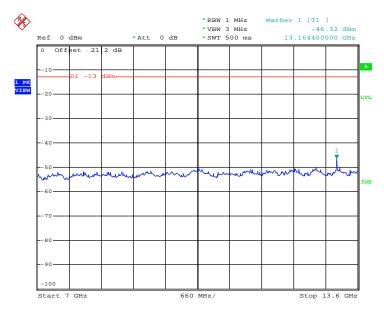
Report No. : FG360409

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 7.JUN.2013 21:15:56

Conducted Emission Plot between 7GHz ~ 13.6GHz

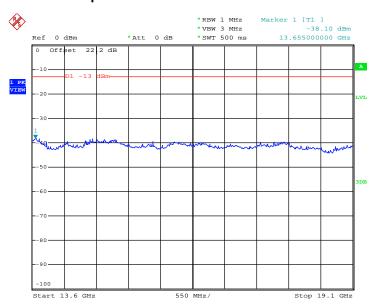


Date: 7.JUN.2013 21:17:34

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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 7.JUN.2013 21:18:53

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3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

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.

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3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

3.7.3 Test Procedures

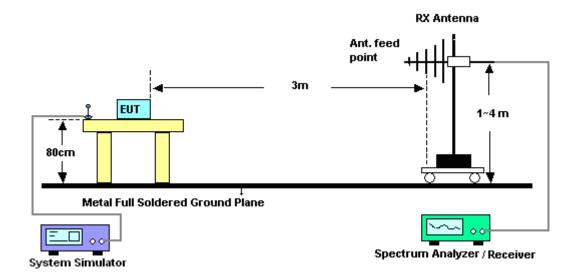
- The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- The table was rotated 360 degrees to determine the position of the highest spurious emission.
- The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- Taking the record of output power at antenna port.
- Repeat step 7 to step 8 for another polarization.
- 10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.
- 12. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain.
- 13. ERP (dBm) = EIRP 2.15



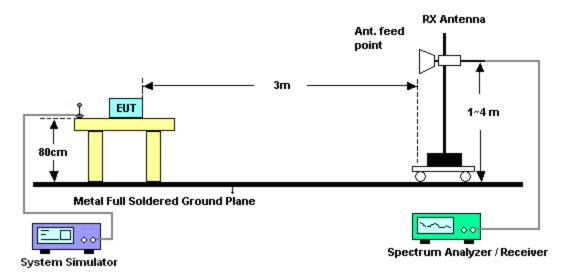
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3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

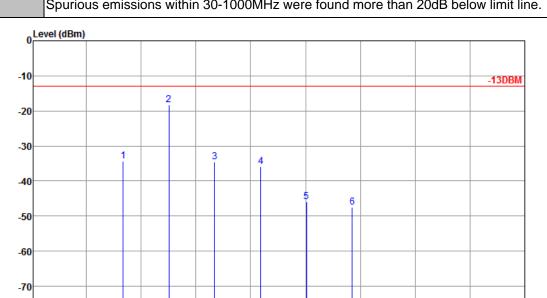


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3.7.5 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	23~24°C			
Test Mode :	GSM Link (GMSK)	Relative Humidity :	49~51%			
Test Engineer :	Zhongshuang Zhang	Polarization :	Horizontal			
Domark :	Spurious amissions within 20 1000MHz were found more than 20dB helow limit line					



: 03CH01-SZ

1000.

-80₃₀

: -13DBM HF_EIRP_H_130101 HORIZONTAL : (FG) 360409 Condition

2000.

3000.

Project

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-34.40	-13	-21.40	-51.26	-37.37	0.88	6.00	Н	Pass
2510	-18.29	-13	-5.29	-44.01	-20.90	1.08	5.84	Н	Pass
3345	-34.44	-13	-21.44	-46.98	-38.81	1.14	7.66	Н	Pass
4182	-35.96	-13	-22.96	-52.01	-41.23	1.37	8.79	Н	Pass
5018	-45.96	-13	-32.96	-64.25	-52.10	1.51	9.80	Н	Pass
5854	-47.46	-13	-34.46	-65.68	-53.99	1.62	10.30	Н	Pass

4000.

5000.

Frequency (MHz)

6000.

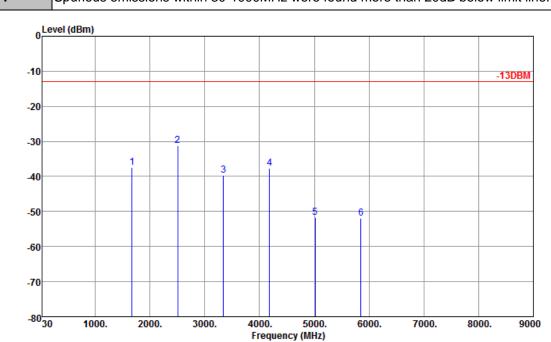
7000.

8000.

9000

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Band :	GSM850	Temperature :	23~24°C			
Test Mode :	GSM Link (GMSK)	Relative Humidity :	49~51%			
Test Engineer :	Zhongshuang Zhang	Polarization :	Vertical			
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					



Site

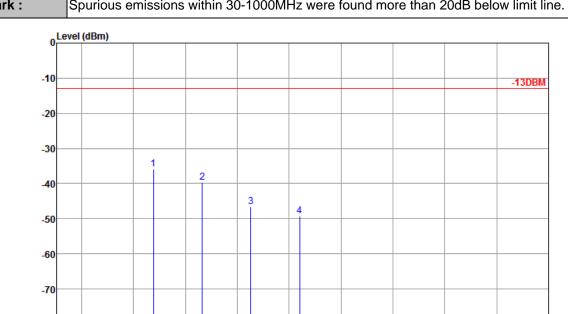
: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL Condition

: (FG) 360409 Project

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-37.42	-13	-24.42	-51.36	-40.39	0.88	6.00	V	Pass
2510	-31.22	-13	-18.22	-54.18	-33.83	1.08	5.84	V	Pass
3345	-39.75	-13	-26.75	-53.77	-44.12	1.14	7.66	V	Pass
4182	-37.70	-13	-24.70	-54.52	-42.97	1.37	8.79	V	Pass
5018	-51.60	-13	-38.60	-69.05	-57.74	1.51	9.80	V	Pass
5854	-52.03	-13	-39.03	-69.93	-58.56	1.62	10.30	V	Pass

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Band :	GSM1900	Temperature :	23~24°C			
Test Mode :	GSM Link (GMSK)	Relative Humidity :	49~51%			
Test Engineer :	Zhongshuang Zhang	Polarization :	Horizontal			
Romark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line					



9000.

Frequency (MHz)

11000.

13000.

15000.

17000.

19000

Site : 03CH01-SZ

3000.

-80_{30 1000.}

Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL

5000.

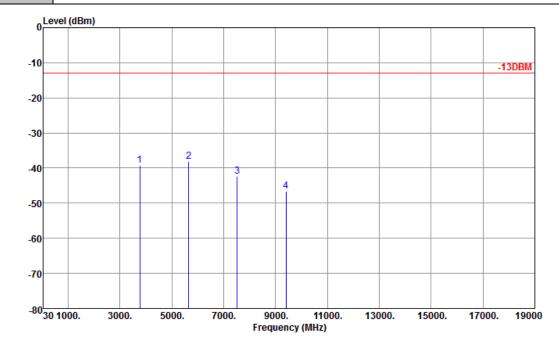
7000.

Project : (FG) 360409

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-35.81	-13	-22.81	-52.69	-42.55	1.28	8.02	Н	Pass
5640	-39.63	-13	-26.63	-59.67	-48.05	1.58	10.00	Н	Pass
7520	-46.55	-13	-33.55	-68.49	-56.87	1.78	12.10	Н	Pass
9400	-49.31	-13	-36.31	-71.43	-60.09	2.22	13.00	Н	Pass

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Band :	GSM1900	Temperature :	23~24°C			
Test Mode :	GSM Link (GMSK)	Relative Humidity :	49~51%			
Test Engineer :	Zhongshuang Zhang	Polarization :	Vertical			
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					



Site : 03CH01-SZ

: -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 360409 Condition

Project

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-39.19	-13	-26.19	-56.64	-45.93	1.28	8.02	V	Pass
5640	-38.00	-13	-25.00	-57.7	-46.42	1.58	10	V	Pass
7520	-42.24	-13	-29.24	-64.49	-52.56	1.78	12.1	V	Pass
9400	-46.64	-13	-33.64	-70.26	-57.42	2.22	13	V	Pass

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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



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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	-32	-0.04				
-20	-31	-0.04				
-10	-29	-0.03				
0	-28	-0.03				
10	-26	-0.03				
20	-25	-0.03	PASS			
30	-26	-0.03				
40	-24	-0.03				
50	-26	-0.03				
55	-26	-0.03				

 $\textbf{Note} : \mbox{The manufacturer declared that the EUT could work properly at temperature } 55 ^{\circ}\mbox{C}.$

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

	GSM				
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result		
-30	-49	-0.03			
-20	-48	-0.03			
-10	-46	-0.02			
0	-45	-0.02			
10	-43	-0.02	DAGG		
20	-40	-0.02	PASS		
30	-42	-0.02			
40	-43	-0.02			
50	-45	-0.02			
55	-45	-0.02			

Note: The manufacturer declared that the EUT could work properly at temperature 55°C.

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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	GSM	3.7	-25	-0.03	2.5	PASS
		BEP	-25	-0.03		
		4.2	-27	-0.03		
GSM 1900 CH661	GSM	3.7	-40	-0.02		
		BEP	-41	-0.02		
		4.2	-42	-0.02		

Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.5 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	FSP30	101400	9kHz~30GHz	Mar. 28, 2013	Jun. 07, 2013~ Jun. 14, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
DC Power Supply	TOPWORD	3303DR	N/A714621	N/A	Mar. 28, 2013	Jun. 07, 2013~ Jun. 14, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	N/A	Mar. 28, 2013	Jun. 07, 2013~ Jun. 14, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
ESCI TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Mar. 28, 2013	Jun. 19, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP30	101362	9kHz~30GHz	Oct. 11, 2012	Jun. 19, 2013	Oct. 10, 2013	Radiation (03CH01-SZ)
Double Ridge Horn Amtenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 12, 2012	Jun. 19, 2013	Oct. 11, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Nov. 03, 2012	Jun. 19, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Turn Table	EM Electronice	EM 1000	N/A	0~360 degree	N/A	Jun. 19, 2013	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronice	EM 1000	N/A	1 m~4 m	N/A	Jun. 19, 2013	N/A	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3GHz Gain 30dB	Mar. 28, 2013	Jun. 19, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Jun. 19, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF -Horn	Schwarzbeck	BBHA9170	BBHA9170249	14GHz~40GHz	Nov. 23, 2012	Jun. 19, 2013	Nov. 22, 2013	Radiation (03CH01-SZ)

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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

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

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

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP360409 as below.

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