

Report No.: FG3O0901

# **FCC RF Test Report**

APPLICANT : CT Asia

**EQUIPMENT**: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Life Pure

FCC ID : YHLBLULIFEPURE

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 09, 2013 and testing was completed on Oct. 18, 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 to be compliant 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

# 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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**APPENDIX A. SETUP PHOTOGRAPHS** 

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG3O0901	Rev. 01	Initial issue of report	Nov. 04, 2013

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**SUMMARY OF TEST RESULT** 

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.4	§2.1049 §22.917(a) §24.238(b)	Occupied Bandwidth	N/A	PASS	-
3.5	\$2.1051 \$22.917(a) Band Edge Measurement \$24.238(a)		< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.6	§2.1051		< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 8.74 dB at 3760.000 MHz
3.8	§2.1055 §22.355 §24.235	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

#### Gionee Communication Equipment Co., Ltd.

21/F, Times Technology Building, No. 7028, Shennan Avenue, Futian District, Shenzhen, China

### 1.3 Feature of Equipment Under Test

Product Feature						
Equipment	Mobile Phone					
Brand Name	BLU					
Model Name	Life Pure					
FCC ID	YHLBLULIFEPURE					
	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/					
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/					
	Bluetooth v3.0 + EDR/Bluetooth v4.0 + LE					
HW Version	LIFE PLAY X_Mainboard_P3					
SW Version	BLU_X100i_v09_GENERIC					
EUT Stage	Identical Prototype					

**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 Product Specification of Equipment Under Test

Product Specif	Product Specification subjective to this standard					
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz					
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz					
Maximum Output Power to Antenna	GSM850: 33.47 dBm GSM1900: 30.77 dBm WCDMA Band V: 23.67 dBm WCDMA Band II: 23.74 dBm					
Antenna Type	Fixed Internal Antenna					
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSUPA: QPSK (Uplink)					

### 1.5 Modification of EUT

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

# 1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.85	0.02 ppm	248KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.17	0.02 ppm	248KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.09	0.01 ppm	4M18F9W
Part 24	GSM1900 GSM	GMSK	1.35	0.01 ppm	246KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.35	0.02 ppm	248KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.25	0.01 ppm	4M18F9W

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### 1.7 Testing Site

Test Site	SPORTON IN	SPORTON INTERNATIONAL (SHENZHEN) INC.						
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan							
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.							
	TEL: +86-755- 3320-2398							
Toot Site No	Sporton Site No. FCC Registratio							
Test Site No.	TH01-SZ	03CH01-SZ	OTA01-SZ	831040				

# 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 v02r01

#### Remark:

- 1. 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 (Z plane).

Frequency range investigated for radiated emission is as follows:

- 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
- 2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes							
Band	Radiated TCs	Conducted TCs					
CSM 950	■ GSM Link	■ GSM Link					
GSM 850	■ EDGE class 8 Link	■ EDGE class 8 Link					
CCM 4000	■ GSM Link	■ GSM Link					
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link					
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

**Note:** The maximum power levels are GSM mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

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### The conducted power tables are as follows:

Conducted Power (*Unit: dBm)									
Band	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)	33.33	33.42	<mark>33.47</mark>	30.73	30.74	<mark>30.77</mark>			
GPRS (GMSK, 1 Tx slot) – CS1	33.32	33.39	33.41	30.71	30.73	30.75			
GPRS (GMSK, 2 Tx slots) – CS1	32.16	32.23	32.27	28.82	28.86	28.93			
GPRS (GMSK, 3 Tx slots) – CS1	29.92	29.94	29.95	26.85	26.89	27.00			
GPRS (GMSK, 4 Tx slots) – CS1	29.19	29.27	29.31	25.83	25.88	25.99			
EDGE (GMSK, 1 Tx slot) - MCS1	33.30	33.39	33.41	30.70	30.72	30.74			
EDGE (GMSK, 2 Tx slots) – MCS1	32.15	32.23	32.28	28.80	28.84	28.91			
EDGE (GMSK, 3 Tx slots) – MCS1	29.90	29.92	29.96	26.83	26.87	26.99			
EDGE (GMSK, 4 Tx slots) – MCS1	29.18	29.25	29.30	25.82	25.88	25.98			
EDGE (8PSK, 1 Tx slot) – MCS5	26.89	26.90	26.87	25.79	25.81	25.95			
EDGE (8PSK, 2 Tx slots) – MCS5	25.60	25.61	25.56	24.60	24.65	24.74			
EDGE (8PSK, 3 Tx slots) – MCS5	23.25	23.33	23.27	22.45	22.45	22.55			
EDGE (8PSK, 4 Tx slots) – MCS5	22.19	22.19	22.15	21.28	21.30	21.38			

Conducted Power (*Unit: dBm)								
Band	CDMA Band	V	W	WCDMA Band				
Channel	4132	4132 4182 4233		9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6		
RMC 12.2K	23.61	23.27	<b>23.67</b>	<b>23.74</b>	23.57	23.59		
HSDPA Subtest-1	22.59	22.22	22.68	22.74	22.55	22.57		
HSDPA Subtest-2	22.57	22.21	22.65	22.71	22.49	22.55		
HSDPA Subtest-3	22.09	21.73	22.12	22.29	22.05	22.09		
HSDPA Subtest-4	22.05	21.79	22.11	22.31	22.09	22.12		
HSUPA Subtest-1	20.65	20.38	20.74	20.60	20.44	20.47		
HSUPA Subtest-2	20.70	20.41	20.79	20.74	20.51	20.59		
HSUPA Subtest-3	21.57	21.27	21.61	21.57	21.31	21.35		
HSUPA Subtest-4	20.19	19.82	20.29	20.25	19.97	20.05		
HSUPA Subtest-5	21.58	21.26	21.65	21.61	21.34	21.37		
HSPA+ (16QAM) Subtest-1	20.63	20.78	20.86	20.57	20.43	20.40		

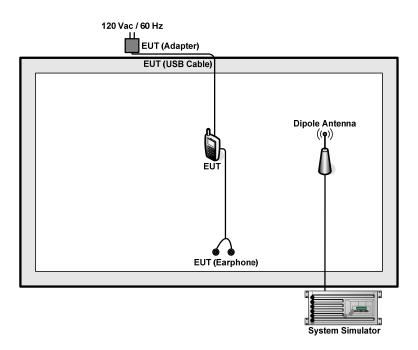
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### 2.2 Connection Diagram of Test System



### 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

# 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 7.5 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

The measuring equipment is listed in the section 4 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.
- 4. 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	Modes         GSM850 (GSM)           128         189         251           Channel         (Low)         (Mid)         (High)			GSM8	GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel				128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6	
Conducted Power (dBm)	33.33	33.42	33.47	26.89	26.90	26.87	23.61	23.27	23.67	
Conducted Power (Watts)	2.15	2.20	2.22	0.49	0.49	0.49	0.23	0.21	0.23	

	PCS Band								
Modes	GSM1900 (GSM)		GSM19	000 (EDGE o	lass 8)	WCDMA Band II (RMC 12.2Kbps)			
Channel	512 (Low)	661 (Mid)	810 (High)	512 661 810 (Low) (Mid) (High)			9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	30.73	30.74	30.77	25.79	25.81	25.95	23.74	23.57	23.59
Conducted Power (Watts)	1.18	1.19	1.19	0.38	0.38	0.39	0.24	0.23	0.23

Note: Maximum burst average power for GSM, and maximum average power for WCDMA.

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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.

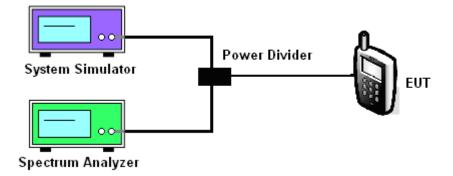
#### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 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. For UMTS operating modes:
  - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
  - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. 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) GSM1900 (EDG			00 (EDGE o	class 8)		CDMA Band MC 12.2Kb <sub>l</sub>		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	0.26	0.27	0.26	2.89	2.79	2.91	3.12	3.20	2.76

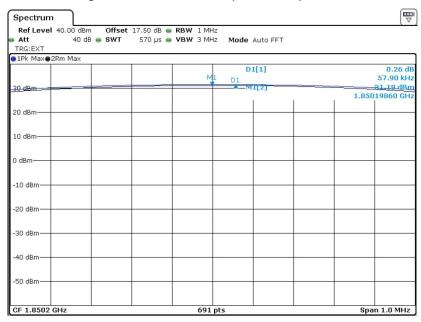
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### 3.2.6 Test Result (Plots) of Peak-to-Average Ratio

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

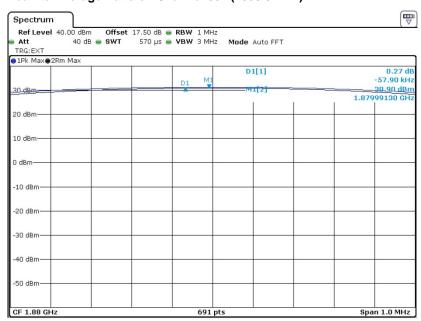
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#### Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 16.0CT.2013 18:21:55

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



Date: 16.0CT.2013 18:19:51

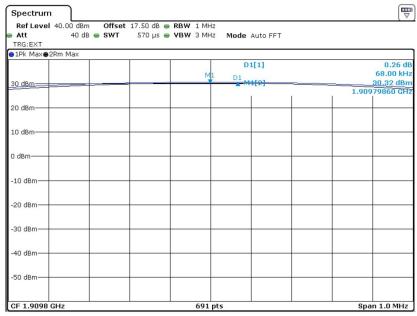
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#### Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



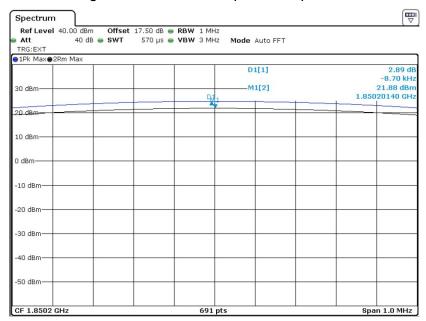
Date: 16.0CT.2013 18:22:43

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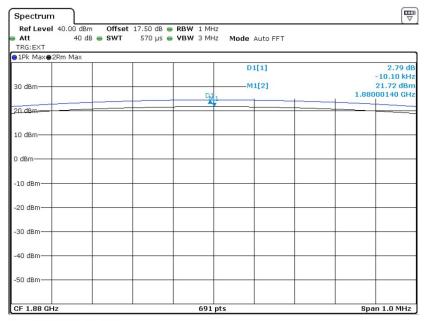
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 16.0CT.2013 18:38:59

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



Date: 16.0CT.2013 18:38:07

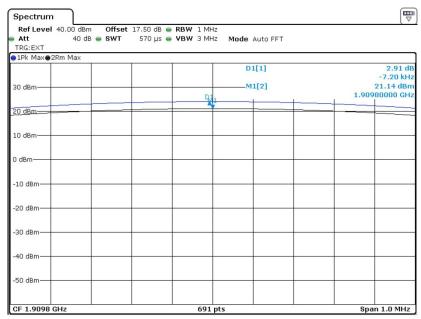
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#### Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



Date: 16.0CT.2013 18:39:56

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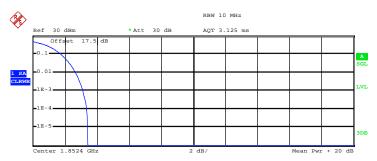
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Band: WCDMA Band II **Test Mode:** RMC 12.2Kbps Link (QPSK)

#### Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



Complementary Cumulative Distribution Function (100000 samples)  ${\tt Trace} \ \ 1$ 

25.74 dBm Peak 3.43 dB Crest 10 % 1.76 dB 1 % 2.68 dB .1 % 3.12 dB

22.31 dBm

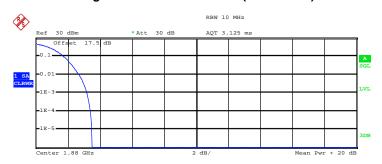
3.36 dB

Mean

.01 %

Date: 16.OCT.2013 01:42:31

#### Peak-to-Average Ratio on Channel 9400 (1880.0 MHz)



Complementary Cumulative Distribution Function (100000 samples)  ${\tt Trace} \quad 1$ 

22.17 dBm 25.67 dBm Peak 3.50 dB Crest 1.76 dB 10 % 1 % 2.68 dB 3.20 dB .1 % 3.40 dB

Date: 16.OCT.2013 01:40:58

.01 %

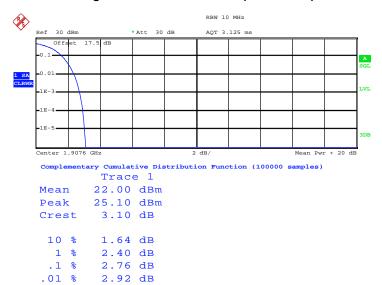
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### FCC RF Test Report

#### Peak-to-Average Ratio on Channel 9538 (1907.6 MHz)



Date: 16.OCT.2013 01:44:42

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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 v02r01. 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

The measuring equipment is listed in the section 4 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.

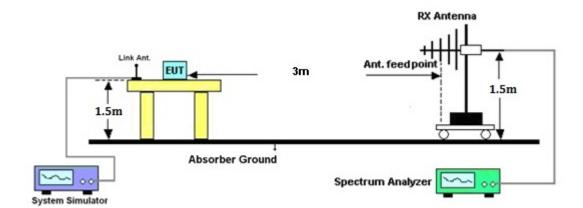
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### 3.3.4 Test Setup



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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	-18.32	-48.12	0.00	-1.08	28.72	0.74		
836.40	-18.47	-48.28	0.00	-0.93	28.88	0.77		
848.80	-18.29	-48.35	0.00	-0.76	29.30	0.85		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	ERP	ERP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.20	-25.89	-47.97	0.00	-1.08	21.00	0.13		
836.40	-25.47	-48.01	0.00	-0.93	21.61	0.14		
848.80	-24.85	-48.05	0.00	-0.76	22.44	0.18		

	GSM850 (EDGE class 8) Radiated Power ERP							
		Hoi	rizontal Polariza	tion				
Frequency (MHz)								
824.20	-25.90	-48.12	0.00	-1.08	21.14	0.13		
836.40	-25.42	-48.28	0.00	-0.93	21.93	0.16		
848.80	-25.32	-48.35	0.00	-0.76	22.27	0.17		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	ERP	ERP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.20	-33.24	-47.97	0.00	-1.08	13.65	0.02		
836.40	-32.30	-48.01	0.00	-0.93	14.78	0.03		
848.80	-31.51	-48.05	0.00	-0.76	15.78	0.04		

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	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP							
		Hoi	rizontal Polariza	tion				
Frequency (MHz)								
826.40	-29.52	-48.12	0.00	-1.08	17.52	0.06		
836.40	-30.20	-48.28	0.00	-0.93	17.15	0.05		
846.60	-28.22	-48.35	0.00	-0.76	19.37	0.09		
		Ve	ertical Polarizati	on				
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)		
826.40	-36.87	-47.97	0.00	-1.08	10.02	0.01		
836.40	-37.21	-48.01	0.00	-0.93	9.87	0.01		
846.60	-34.86	-48.05	0.00	-0.76	12.43	0.02		

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### 3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP							
		Hoi	rizontal Polariza	tion				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1850.20	-22.91	-51.88	0.00	1.96	30.93	1.24		
1880.00	-24.25	-52.99	0.00	2.00	30.74	1.19		
1909.80	-26.01	-54.28	0.00	1.98	30.25	1.06		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1850.20	-22.80	-52.13	0.00	1.96	31.29	1.35		
1880.00	-24.66	-53.17	0.00	2.00	30.51	1.12		
1909.80	-25.79	-54.13	0.00	1.98	30.32	1.08		

	GSM1900 (EDGE class 8) Radiated Power EIRP							
		Hoi	rizontal Polariza	tion				
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)		
1850.20	-28.78	-51.88	0.00	1.96	25.06	0.32		
1880.00	-29.81	-52.99	0.00	2.00	25.18	0.33		
1909.80	-31.30	-54.28	0.00	1.98	24.96	0.31		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1850.20	-28.61	-52.13	0.00	1.96	25.48	0.35		
1880.00	-30.17	-53.17	0.00	2.00	25.00	0.32		
1909.80	-31.17	-54.13	0.00	1.98	24.94	0.31		

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# FCC RF Test Report

	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP							
		Hoi	rizontal Polariza	tion				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1852.40	-30.13	-51.88	0.00	1.96	23.71	0.23		
1880.00	-31.87	-52.99	0.00	2.00	23.12	0.21		
1907.60	-33.49	-54.28	0.00	1.98	22.77	0.19		
		Ve	ertical Polarizati	on				
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)		
1852.40	-30.11	-52.13	0.00	1.96	23.98	0.25		
1880.00	-32.32	-53.17	0.00	2.00	22.85	0.19		
1907.60	-33.41	-54.13	0.00	1.98	22.70	0.19		

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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.

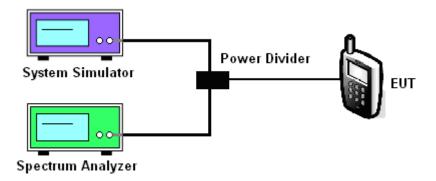
### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 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 99% Occupied Bandwidth and 26dB Bandwidth

Cellular Band							
Modes	G	SM850 (GSI	VI)	GSM8	50 (EDGE c	lass 8)	
Oh amad	128	189	251	128	189	251	
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	
99% OBW (kHz)	248.00	244.00	246.00	246.00	248.00	240.00	
26dB BW (kHz)	310.00	314.00	314.00	310.00	310.00	306.00	

PCS Band							
Modes	GS	6M1900 (GS	M)	GSM19	00 (EDGE class 8)		
01	512	661	810	512	661	810	
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	
99% OBW (kHz)	246.00	244.00	246.00	248.00	246.00	248.00	
26dB BW (kHz)	310.00	312.00	314.00	310.00	316.00	314.00	

Cellular Band								
Modes	WCDMA Band V (RMC 12.2Kbps)							
Channel	4132 (Low) 4182 (Mid) 4233 (High)							
Frequency (MHz)	826.4	836.4	846.6					
99% OBW (MHz)	4.16	4.18	4.18					
26dB BW (MHz)	4.70	4.70 4.74 4.70						

PCS Band			
Modes	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (MHz)	4.16	4.16	4.18
26dB BW (MHz)	4.70	4.72	4.72

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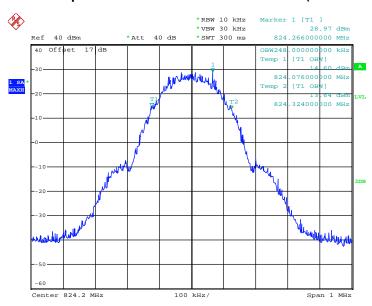
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### 3.4.6 Test Result (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth

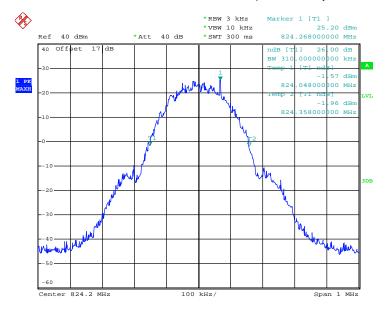
Band: GSM 850	Test Mode:	GSM Link (GMSK)
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#### 99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 15.0CT.2013 23:30:12

#### 26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 15.OCT.2013 23:20:55

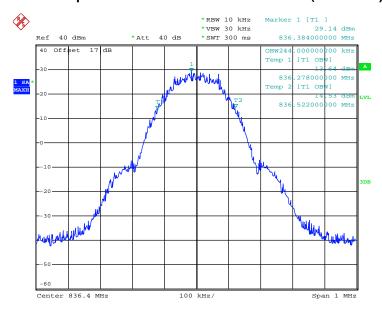
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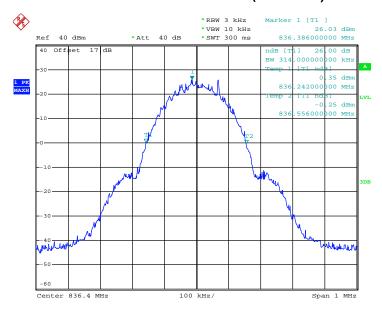
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#### 99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 15.OCT.2013 23:27:41

#### 26dB Bandwidth Plot on Channel 189 (836.4 MHz)



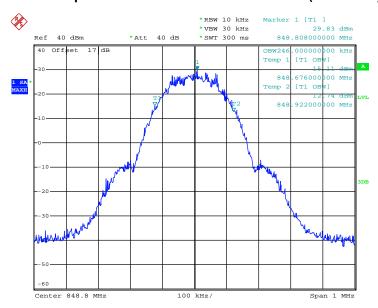
Date: 15.OCT.2013 23:18:10

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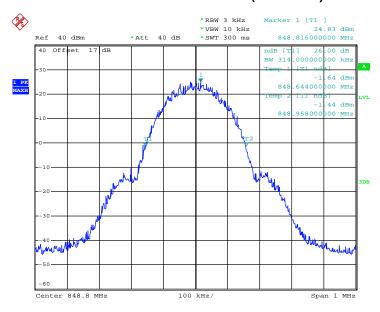
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#### 99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 15.OCT.2013 23:25:18

#### 26dB Bandwidth Plot on Channel 251 (848.8 MHz)



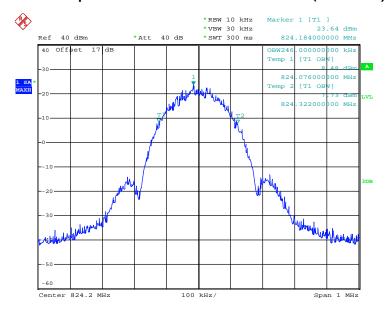
Date: 15.OCT.2013 23:22:13

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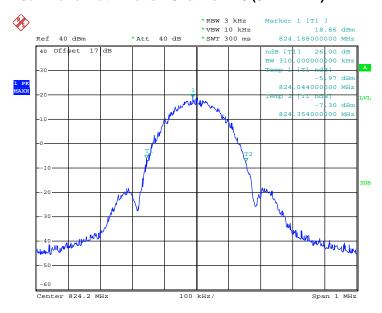


#### 99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 16.OCT.2013 18:51:36

### 26dB Bandwidth Plot on Channel 128 (824.2 MHz)

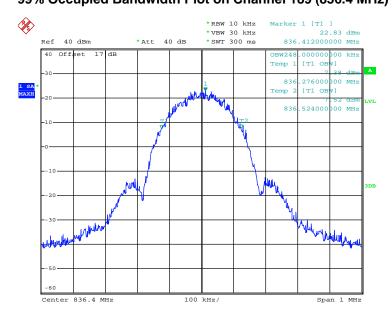


Date: 16.OCT.2013 18:41:57

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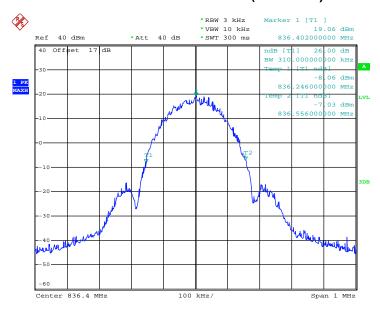


## 99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 16.OCT.2013 18:49:30

#### 26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 16.OCT.2013 18:39:04

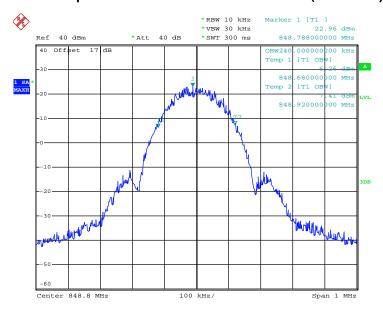
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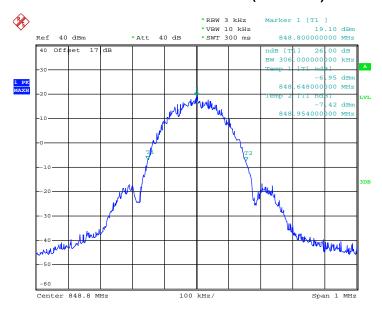
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#### 99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 16.OCT.2013 18:45:50

#### 26dB Bandwidth Plot on Channel 251 (848.8 MHz)



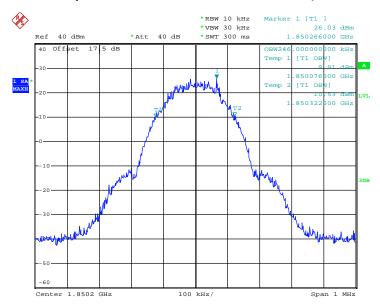
Date: 16.OCT.2013 18:43:04

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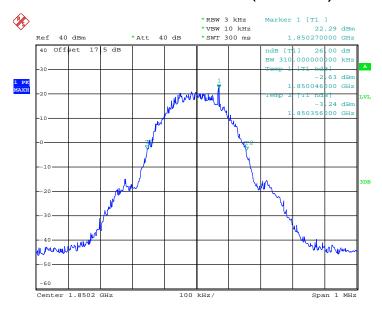
Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



Date: 15.OCT.2013 23:48:43

#### 26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 15.OCT.2013 23:58:01

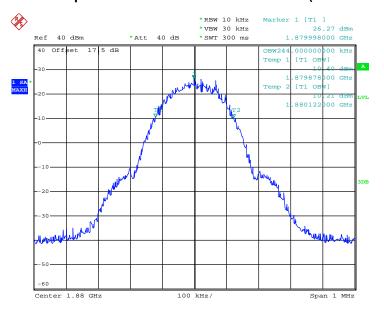
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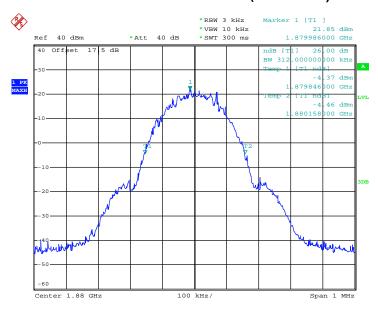
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#### 99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 15.OCT.2013 23:51:36

#### 26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



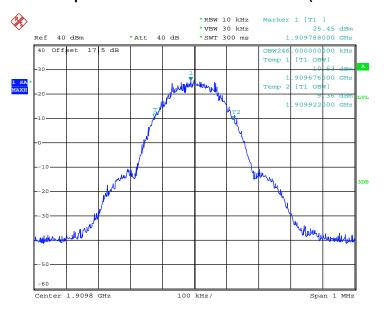
Date: 15.OCT.2013 23:56:16

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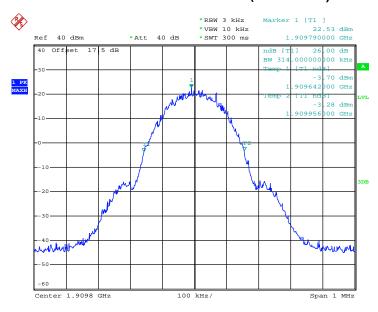
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### 99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 15.OCT.2013 23:46:00

### 26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

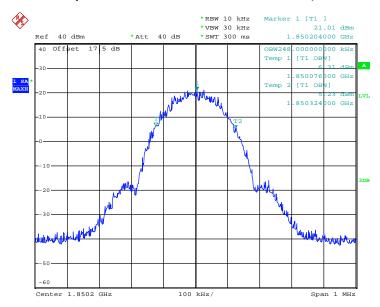


Date: 16.OCT.2013 00:00:39

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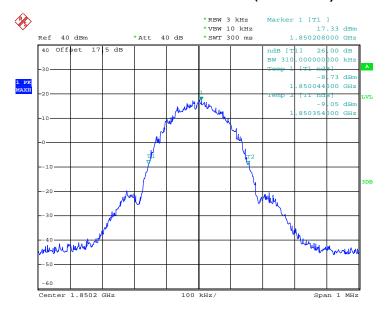
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 16.OCT.2013 19:03:18

### 26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 16.OCT.2013 19:16:42

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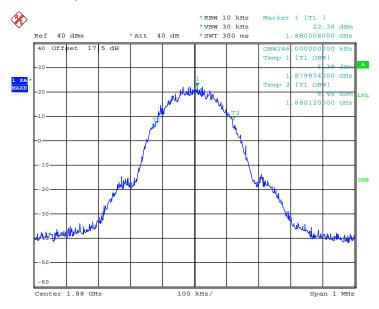
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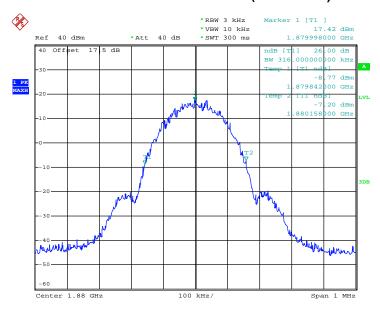
Report No.: FG3O0901

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



Date: 16.OCT.2013 19:07:23

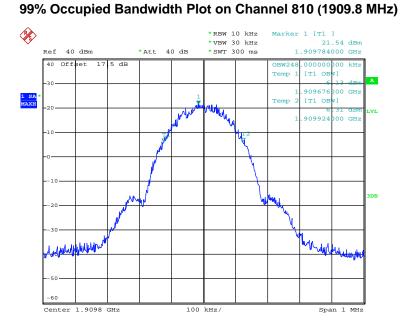
### 26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 16.OCT.2013 19:14:51

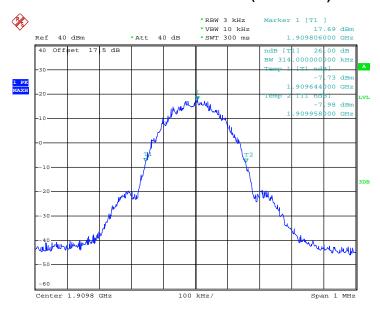
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Date: 16.OCT.2013 19:10:49

### 26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



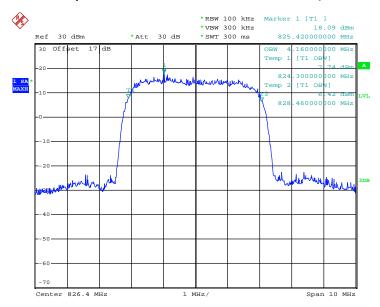
Date: 16.OCT.2013 19:13:14

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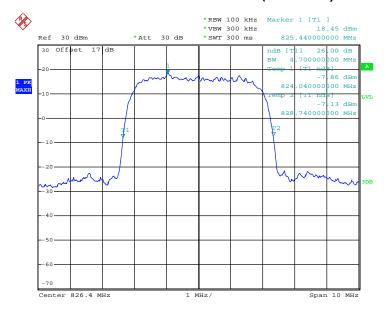
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

### 99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 16.OCT.2013 01:35:46

### 26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 16.OCT.2013 01:26:41

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### 99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 16.OCT.2013 01:33:59

### 26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 16.OCT.2013 01:28:11

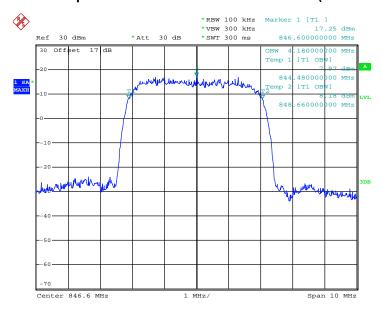
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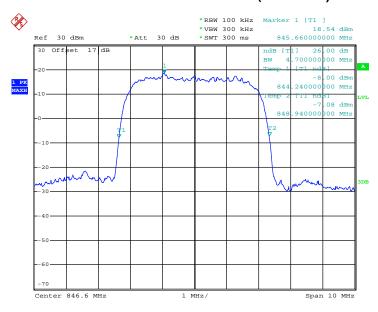
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### 99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 16.OCT.2013 01:32:29

#### 26dB Bandwidth Plot on Channel 4233 (846.6 MHz)

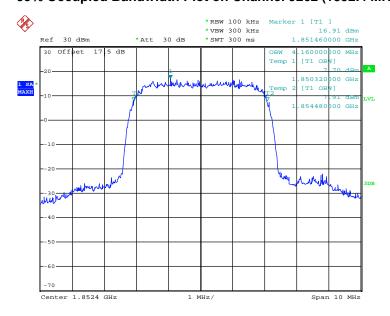


Date: 16.OCT.2013 01:30:22

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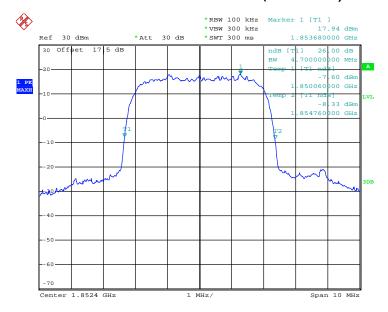
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

### 99% Occupied Bandwidth Plot on Channel 9262 (1852.4 MHz)



Date: 16.OCT.2013 01:17:34

### 26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



Date: 16.OCT.2013 01:12:27

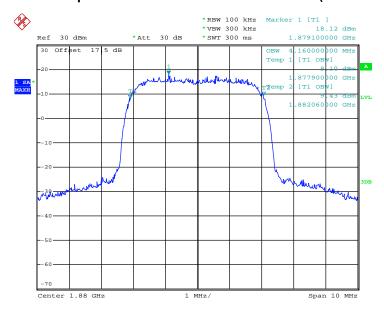
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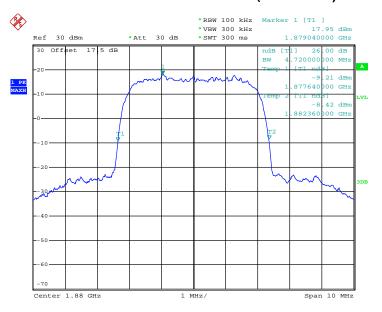
Report No.: FG3O0901

### 99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 16.OCT.2013 02:33:37

# 26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)

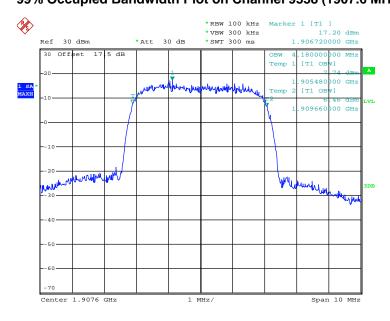


Date: 16.OCT.2013 01:10:22

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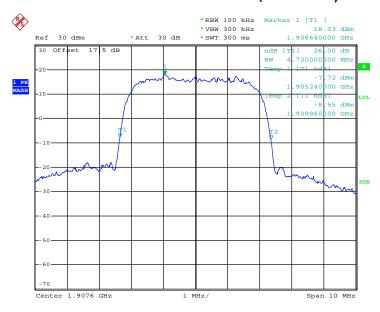


# 99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 16.OCT.2013 01:15:21

### 26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 16.OCT.2013 01:13:47

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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.

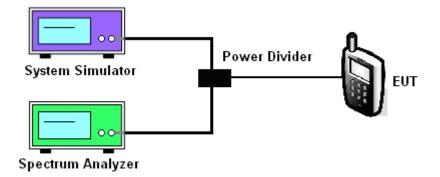
# 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 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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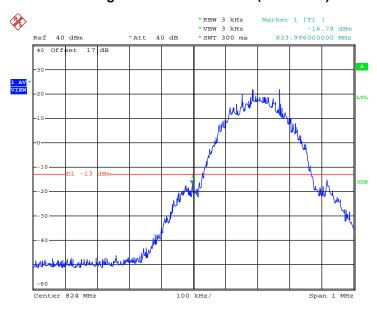
Report No.: FG3O0901



# 3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-16.58dBm	Measurement Value :	-16.78dBm

### Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 15.0CT.2013 23:32:35

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

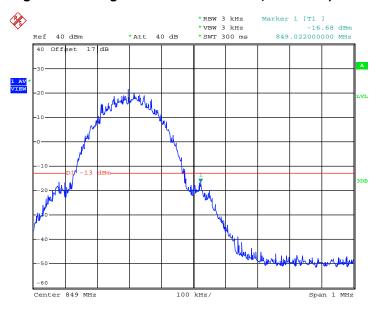
For example, -16.78dBm + 0.20dB = -16.58dBm

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Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-16.48dBm	Measurement Value :	-16.68dBm

### Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 15.OCT.2013 23:34:07

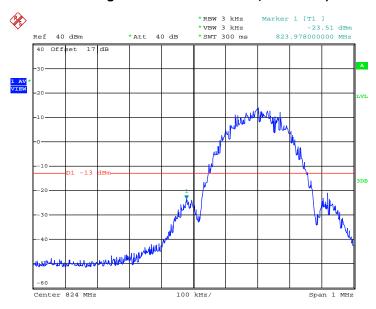
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-23.37dBm	Measurement Value :	-23.51dBm

### Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 16.OCT.2013 18:54:14

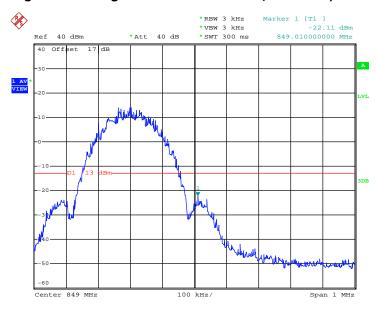
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-21.97dBm	Measurement Value :	-22.11dBm

### Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 16.OCT.2013 18:55:31

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

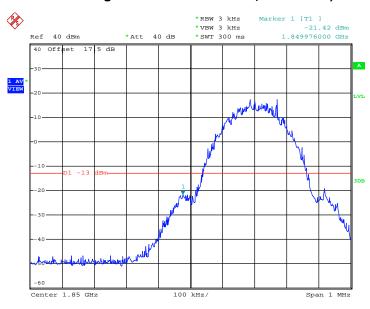
TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPURE

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Report No.: FG3O0901

Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-21.22dBm	Measurement Value :	-21.42dBm

### Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 15.OCT.2013 23:38:53

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

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPURE

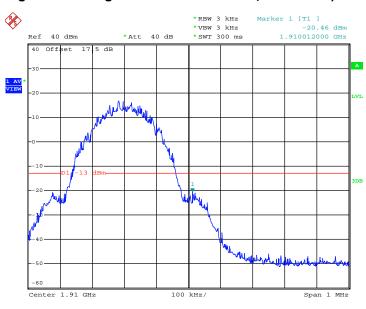
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Report No.: FG3O0901

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-20.26dBm	Measurement Value :	-20.46dBm

### Higher Band Edge Plot on Channel 810 (1909.8 MHz)



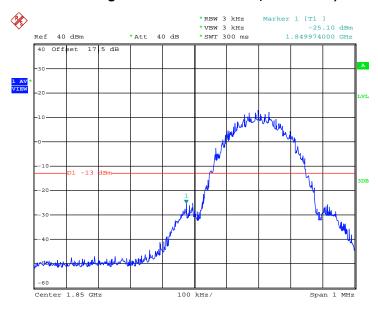
Date: 15.OCT.2013 23:40:45

- 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 :	EDGE class 8 Link (8PSK)
Correction Factor :	0.23dB	Maximum 26dB Bandwidth :	0.316MHz
Band Edge :	-24.87dBm	Measurement Value :	-25.10dBm

### Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 16.OCT.2013 19:00:45

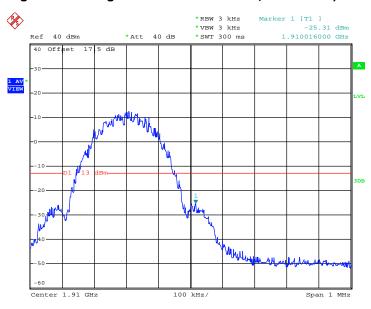
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.23dB	Maximum 26dB Bandwidth :	0.316MHz
Band Edge :	-25.08dBm	Measurement Value :	-25.31dBm

### Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 16.OCT.2013 19:18:54

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

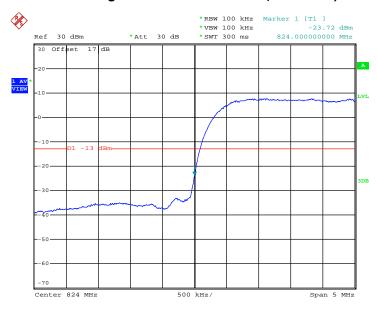
TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPURE

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.24dB	Maximum 26dB Bandwidth :	4.740MHz
Band Edge :	-26.96dBm	Measurement Value :	-23.72dBm

### Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Date: 16.OCT.2013 01:23:58

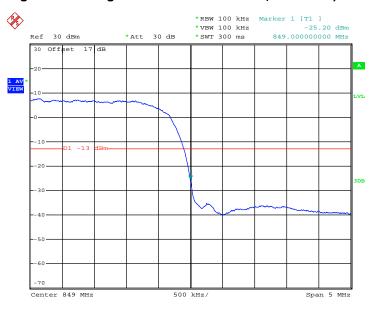
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.24dB	Maximum 26dB Bandwidth:	4.740MHz
Band Edge :	-28.44dBm	Measurement Value :	-25.20dBm

### Higher Band Edge Plot on Channel 4233 (846.6 MHz)



Date: 16.OCT.2013 01:22:41

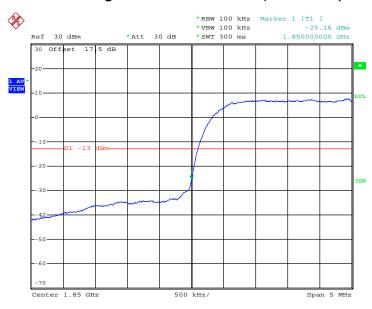
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth:	4.720MHz
Band Edge :	-28.42dBm	Measurement Value :	-25.16dBm

### Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 16.OCT.2013 01:18:59

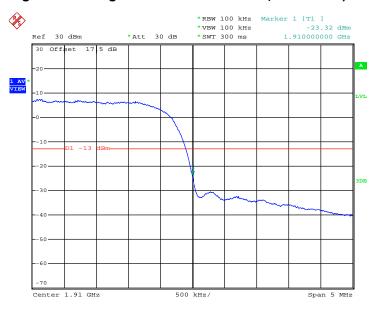
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth :	4.720MHz
Band Edge :	-26.58dBm	Measurement Value :	-23.32dBm

### Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 16.0CT.2013 01:20:18

- 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 10<sup>th</sup> harmonic.

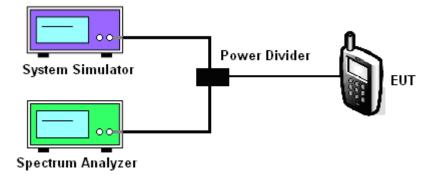
### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 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.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. 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

# 3.6.4 Test Setup



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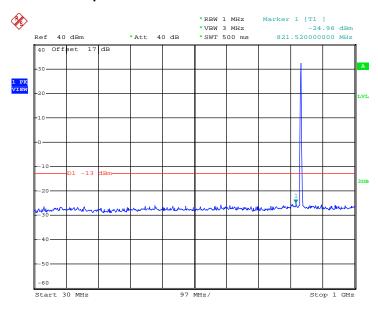


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# 3.6.5 Test Result (Plots) of Conducted Spurious Emission

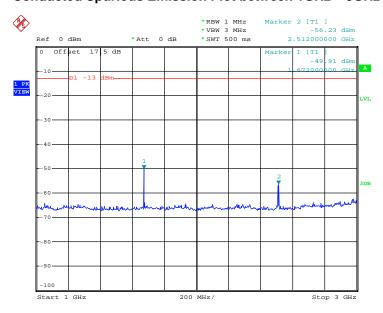
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.0CT.2013 00:34:26

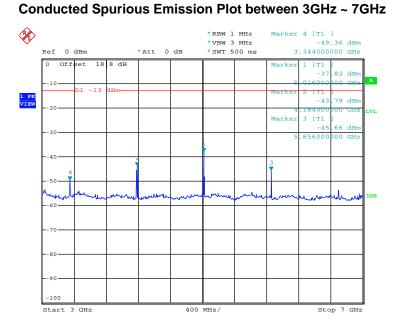
### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.OCT.2013 00:28:33

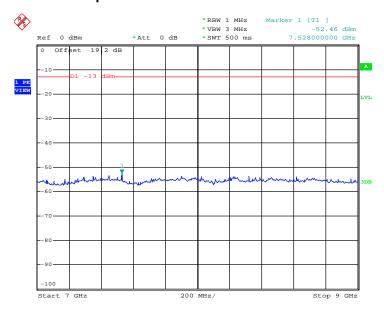
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Date: 16.OCT.2013 00:30:44

# Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 16.OCT.2013 00:32:23

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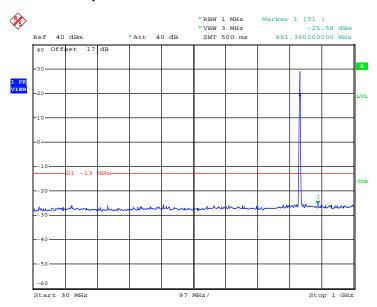
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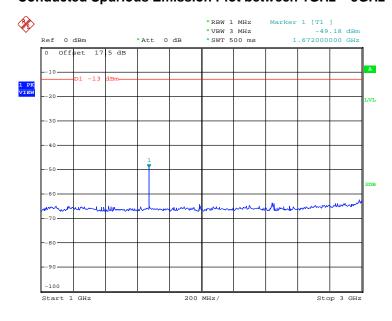
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz

### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.OCT.2013 19:45:46

# Conducted Spurious Emission Plot between 1GHz ~ 3GHz



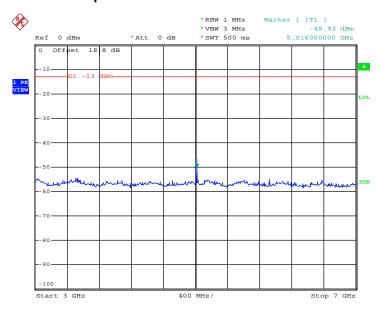
Date: 16.OCT.2013 19:37:43

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Report No.: FG3O0901



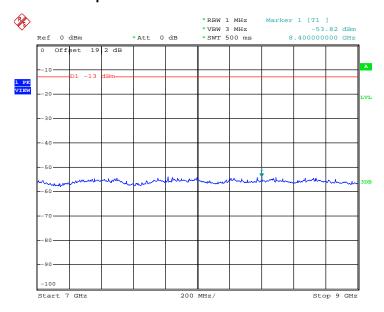
Report No. : FG3O0901

### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.OCT.2013 19:39:18

# Conducted Spurious Emission Plot between 7GHz ~ 9GHz



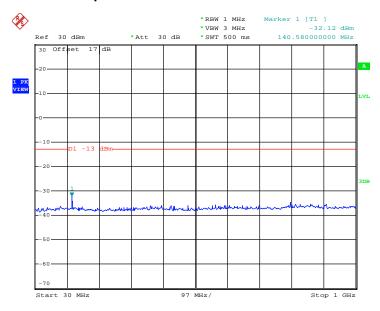
Date: 16.OCT.2013 19:40:38

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 64 of 96
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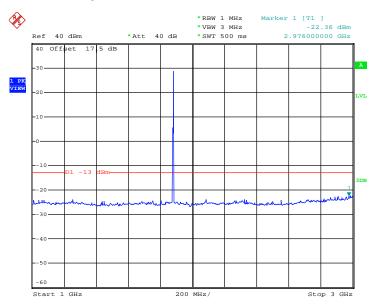
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz

### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.OCT.2013 00:17:24

### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



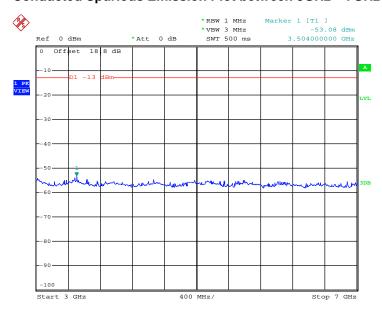
Date: 16.OCT.2013 00:14:07

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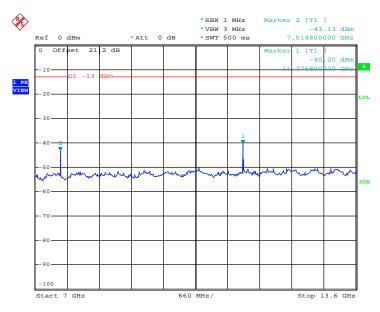


# Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.OCT.2013 00:19:19

#### Conducted Emission Plot between 7GHz ~ 13.6GHz



Date: 16.OCT.2013 00:20:57

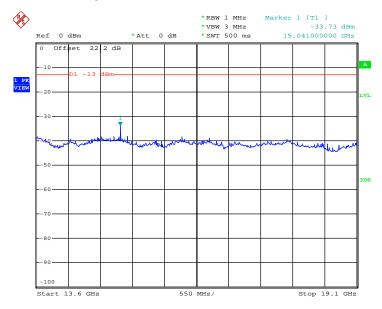
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# Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

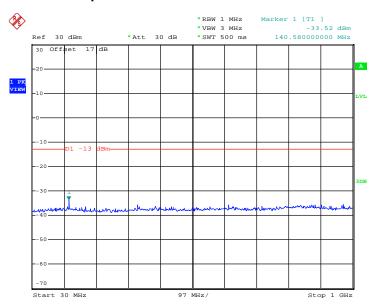


Date: 16.OCT.2013 00:23:08

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 67 of 96
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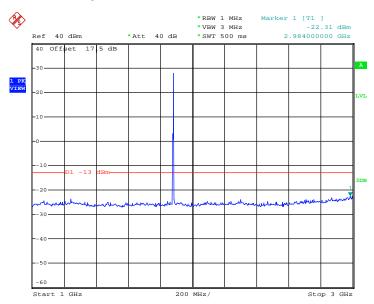
Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz

### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.OCT.2013 19:22:31

### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.OCT.2013 19:24:10

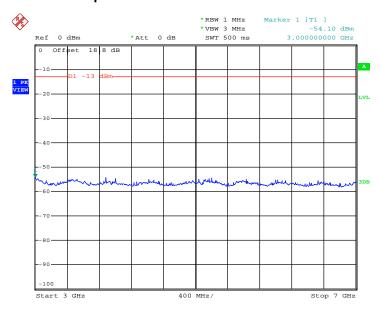
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 68 of 96
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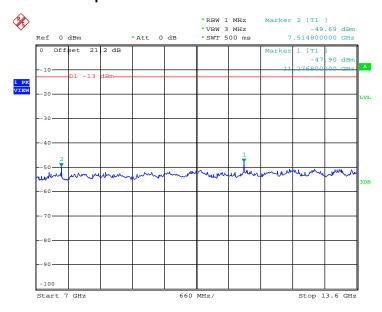
Report No. : FG3O0901

### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.OCT.2013 19:27:31

# Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



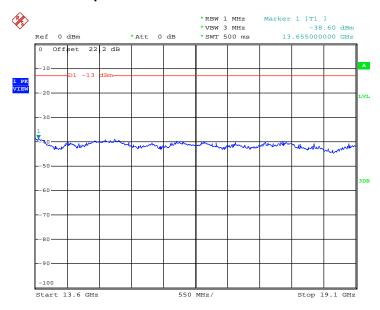
Date: 16.OCT.2013 19:29:47

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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

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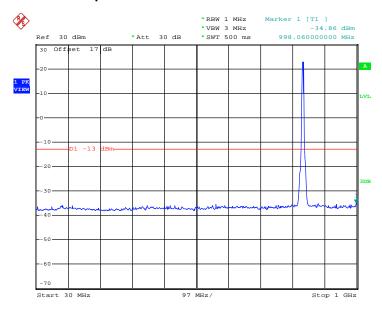


Date: 16.OCT.2013 19:31:35

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 70 of 96
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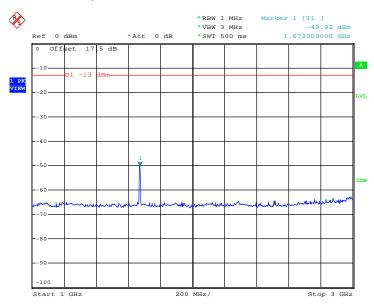
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz

### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.OCT.2013 00:47:25

### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



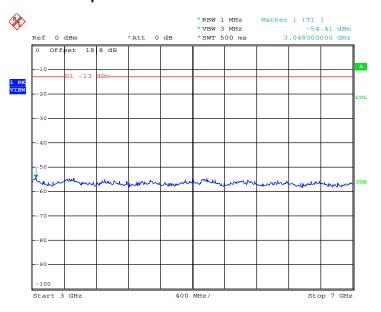
Date: 16.OCT.2013 00:50:09

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Report No.: FG3O0901



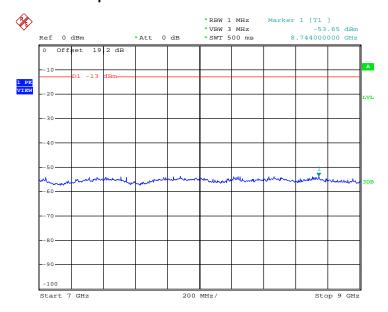
Report No.: FG3O0901

### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.OCT.2013 00:51:11

# Conducted Spurious Emission Plot between 7GHz ~ 9GHz

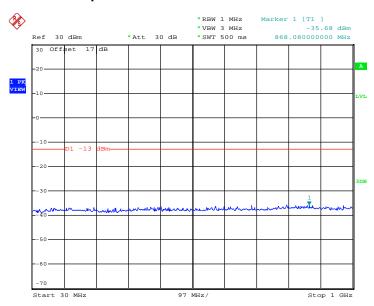


Date: 16.OCT.2013 00:52:45

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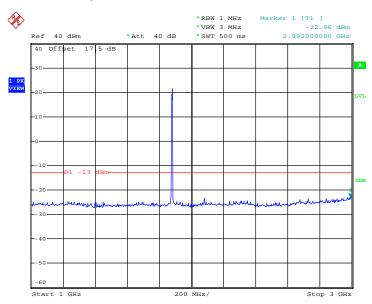
Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12 2Kbps Link (QPSK)	Frequency:	1880 0 MHz

#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 17.OCT.2013 11:55:54

#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 17.0CT.2013 11:56:57

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE

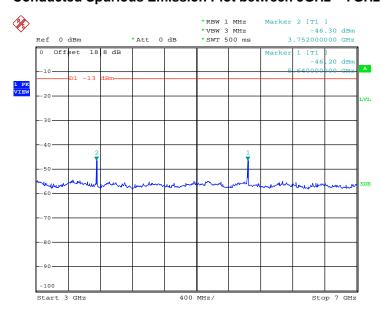
: Rev. 01

Report Version

Report No.: FG3O0901

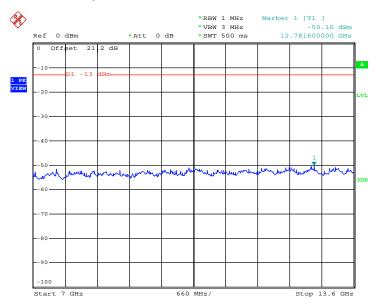


## Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.OCT.2013 01:04:28

## Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.OCT.2013 01:05:21

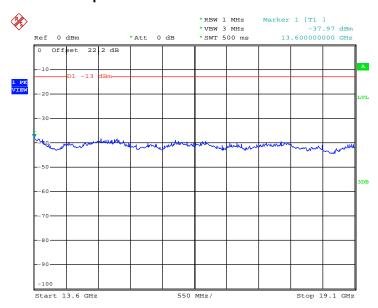
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Report Issued Date : Nov. 04, 2013

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Report No. : FG3O0901

## Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 16.OCT.2013 01:06:39

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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.

### 3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 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.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, 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.
- 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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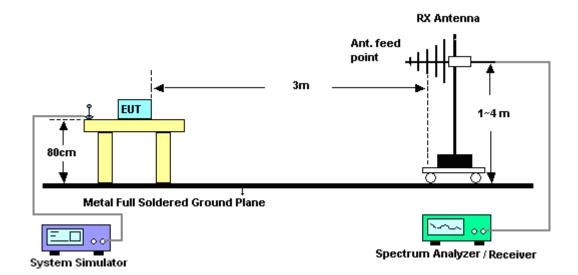
Report No.: FG3O0901



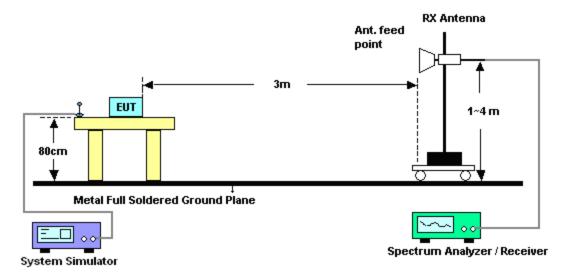
Report No. : FG3O0901

## 3.7.4 Test Setup

#### For radiated emissions from 30MHz to 1GHz



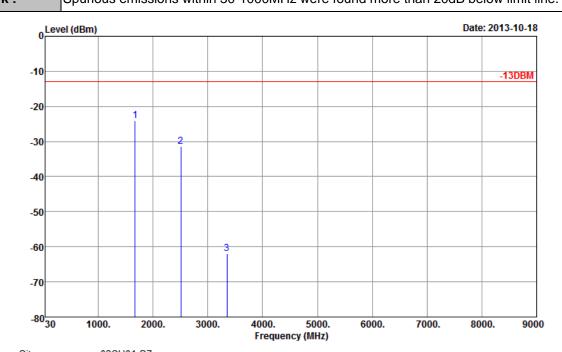
#### For radiated emissions above 1GHz



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## 3.7.5 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	23~25°C			
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%			
Test Engineer :	Gavin Zhang	Polarization :	Horizontal			
Romark ·	Spurious emissions within 30-1000MHz were found more than 20dR below limit line					



Site : 03CH01-SZ

Condition : -13DBM HF\_EIRP\_H\_130101 HORIZONTAL

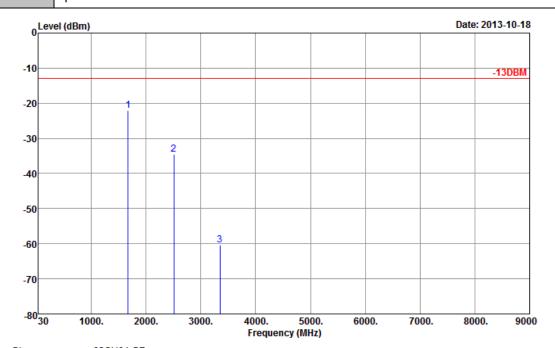
Project : (FG)3O0901

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	-24.07	-13	-11.07	-40.81	-27.04	0.88	6.00	Н	Pass
2510	-31.33	-13	-18.33	-56.56	-33.94	1.08	5.84	Н	Pass
3346	-61.85	-13	-48.85	-72.45	-66.22	1.14	7.66	Н	Pass

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Report Issued Date : Nov. 04, 2013

Report No.: FG3O0901

Band :	GSM850	Temperature :	23~25°C				
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%				
Test Engineer :	Gavin 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)300901 Condition

Project

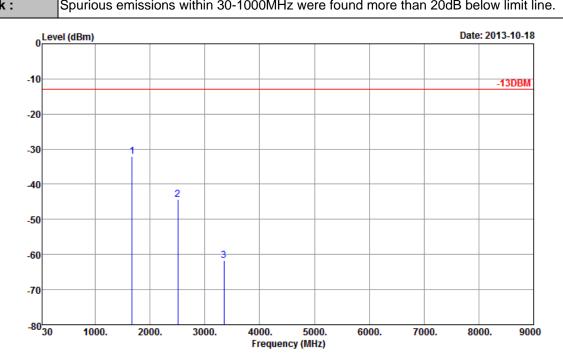
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1672	-22.01	-13	-9.01	-36.17	-24.98	0.88	6.00	V	Pass
2510	-34.61	-13	-21.61	-57.44	-37.22	1.08	5.84	V	Pass
3346	-60.50	-13	-47.50	-72.33	-64.87	1.14	7.66	V	Pass

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FCC RF Test Report Report No.: FG3O0901

Band :	GSM850	Temperature :	23~25°C				
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~52%				
Test Engineer :	Gavin Zhang	Polarization :	Horizontal				
Pomark :	Spurious emissions within 30-1000MHz were found more than 20dR below limit line						



Site

: 03CH01-SZ : -13DBM HF\_EIRP\_H\_130101 HORIZONTAL Condition

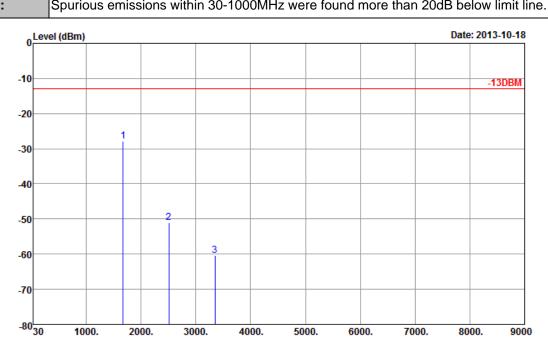
: (FG)3O0901 Project

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	-32.18	-13	-19.18	-48.63	-35.15	0.88	6.00	Н	Pass
2510	-44.44	-13	-31.44	-67.68	-47.05	1.08	5.84	Н	Pass
3346	-61.72	-13	-48.72	-72.32	-66.09	1.14	7.66	Н	Pass

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Band :	GSM850	Temperature :	23~25°C				
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~52%				
Test Engineer :	Gavin Zhang	Polarization :	Vertical				
Romark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



Frequency (MHz)

Site

: 03CH01-SZ : -13DBM HF\_EIRP\_V\_130101 VERTICAL Condition

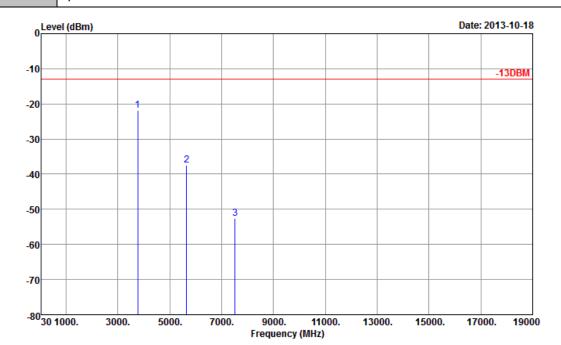
: (FG)3O0901 Project

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	-27.96	-13	-14.96	-42.10	-30.93	0.88	6.00	V	Pass
2510	-50.98	-13	-37.98	-70.44	-53.59	1.08	5.84	V	Pass
3346	-60.41	-13	-47.41	-72.24	-64.78	1.14	7.66	V	Pass

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Report No.: FG3O0901

Band :	GSM1900	Temperature :	23~25°C				
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%				
Test Engineer :	Gavin Zhang	Polarization :	Horizontal				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



Site : 03CH01-SZ

Condition : -13DBM HF\_EIRP\_H\_130101 HORIZONTAL

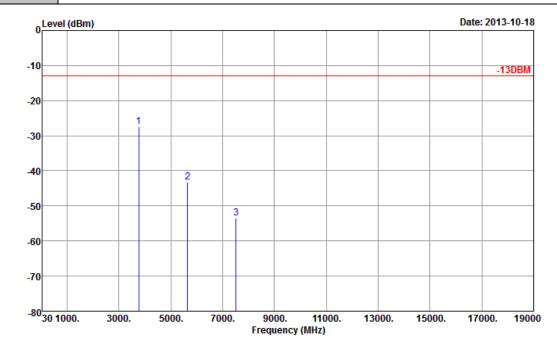
Project : (FG)300901

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	-21.74	-13	-8.74	-39.56	-28.48	1.28	8.02	Н	Pass
5640	-37.37	-13	-24.37	-57.95	-45.79	1.58	10.00	Н	Pass
7520	-52.70	-13	-39.70	-74.64	-63.02	1.78	12.10	Н	Pass

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Report No.: FG3O0901

Band :	GSM1900	Temperature :	23~25°C				
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%				
Test Engineer :	Gavin 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

Project : (FG)3O0901

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	-27.51	-13	-14.51	-46.1	-34.25	1.28	8.02	V	Pass
5640	-43.17	-13	-30.17	-61.52	-51.59	1.58	10	V	Pass
7520	-53.52	-13	-40.52	-75.77	-63.84	1.78	12.1	V	Pass

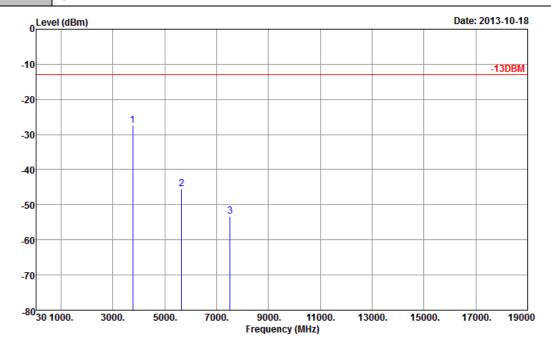
TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPURE

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Report No.: FG3O0901

Band :	GSM1900	Temperature :	23~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~52%
Test Engineer :	Gavin Zhang	Polarization :	Horizontal

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



Site : 03CH01-SZ

Condition : -13DBM HF\_EIRP\_H\_130101 HORIZONTAL

Project : (FG)300901

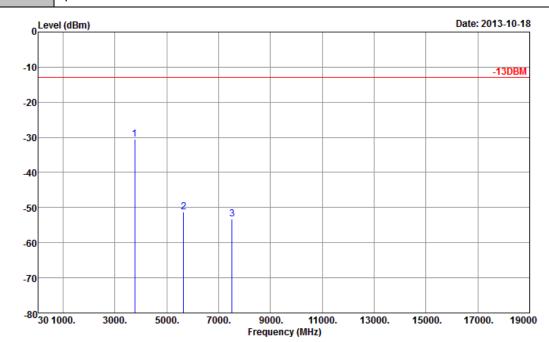
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-27.34	-13	-14.34	-44.94	-34.08	1.28	8.02	Н	Pass
5640	-45.40	-13	-32.40	-63.69	-53.82	1.58	10.00	Н	Pass
7520	-53.34	-13	-40.34	-75.28	-63.66	1.78	12.10	Н	Pass

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Report No.: FG3O0901

Band :	GSM1900	Temperature :	23~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~52%
Test Engineer :	Gavin 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)300901 Condition

Project

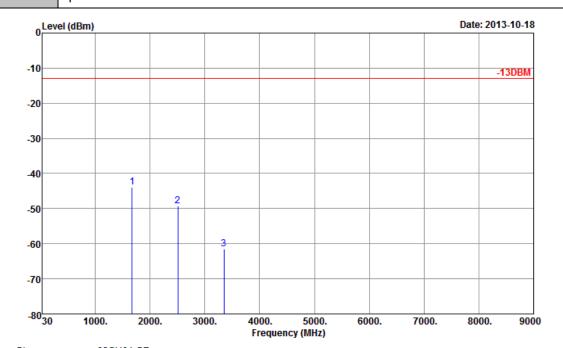
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-30.63	-13	-17.63	-48.95	-37.37	1.28	8.02	V	Pass
5640	-51.20	-13	-38.20	-68.28	-59.62	1.58	10	V	Pass
7520	-53.18	-13	-40.18	-75.43	-63.50	1.78	12.1	V	Pass

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Band :	WCDMA Band V	Temperature :	23~25°C				
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%				
Test Engineer :	Gavin Zhang	Polarization :	Horizontal				
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



Site : 03CH01-SZ

: -13DBM HF\_EIRP\_H\_130101 HORIZONTAL : (FG)300901 Condition

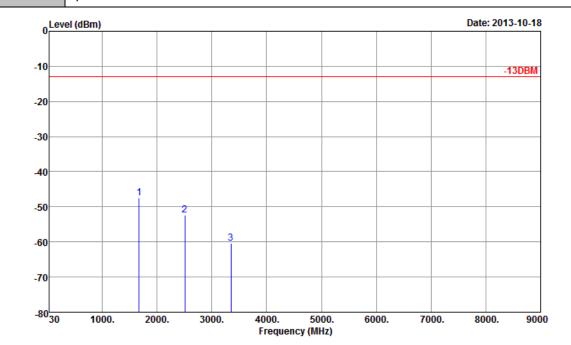
Project

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	-44.00	-13	-31.00	-59.53	-46.97	0.88	6.00	Н	Pass
2510	-49.35	-13	-36.35	-70.82	-51.96	1.08	5.84	Н	Pass
3346	-61.59	-13	-48.59	-72.19	-65.96	1.14	7.66	Н	Pass

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Band :	WCDMA Band V	Temperature :	23~25°C				
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%				
Test Engineer :	Gavin Zhang	Polarization :	Vertical				
Remark:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



: 03CH01-SZ Site

: -13DBM HF\_EIRP\_V\_130101 VERTICAL : (FG)300901 Condition

Project

Frequ	uency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
				Limit	Reading	Power	loss	Gain		
( M	Hz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
16	72	-47.44	-13	-34.44	-60.30	-50.41	0.88	6.00	V	Pass
25	10	-52.26	-13	-39.26	-71.08	-54.87	1.08	5.84	V	Pass
33	46	-60.49	-13	-47.49	-72.32	-64.86	1.14	7.66	V	Pass

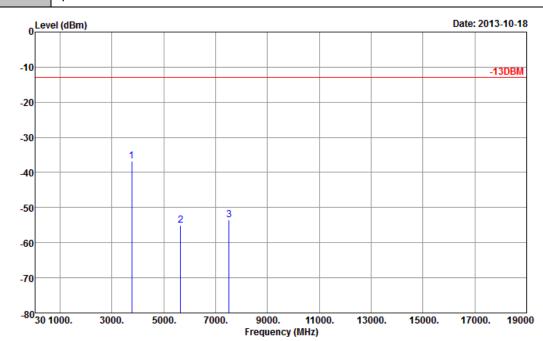
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Report No.: FG3O0901

Band :	WCDMA Band II	Temperature :	23~25°C

Test Mode :RMC 12.2Kbps Link (QPSK)Relative Humidity :48~52%Test Engineer :Gavin ZhangPolarization :Horizontal

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



Site : 03CH01-SZ

Condition : -13DBM HF\_EIRP\_H\_130101 HORIZONTAL

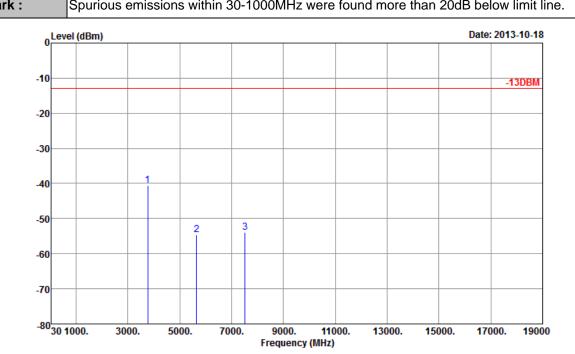
Project : (FG)3O0901

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	-36.82	-13	-23.82	-53.64	-43.56	1.28	8.02	Н	Pass
5640	-55.13	-13	-42.13	-73.12	-63.55	1.58	10.00	Н	Pass
7520	-53.51	-13	-40.51	-75.45	-63.83	1.78	12.10	Н	Pass

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Report No.: FG3O0901

Band :	WCDMA Band II	Temperature :	23~25°C				
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%				
Test Engineer :	Gavin Zhang	Polarization :	Vertical				
Domark .	Spurious emissions within 20 1000MHz were found more than 20dP helew limit line						



Site : 03CH01-SZ

: -13DBM HF\_EIRP\_V\_130101 VERTICAL : (FG)300901 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	-40.51	-13	-27.51	-57.6	-47.25	1.28	8.02	V	Pass
5640	-54.53	-13	-41.53	-71.61	-62.95	1.58	10	V	Pass
7520	-53.82	-13	-40.82	-76.07	-64.14	1.78	12.1	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

The measuring equipment is listed in the section 4 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.

#### 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

	GS	SM	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	17	+0.02	17	+0.02	
-20	17	+0.02	16	+0.02	
-10	16	+0.02	16	+0.02	
0	15	+0.02	14	+0.02	
10	13	+0.02	15	+0.02	PASS
20	14	+0.02	14	+0.02	
30	16	+0.02	14	+0.02	
40	15	+0.02	16	+0.02	
50	16	+0.02	15	+0.02	

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

	GS	SM	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-28	-0.01	-36	-0.02	
-20	-25	-0.01	-33	-0.02	
-10	-26	-0.01	-31	-0.02	
0	-23	-0.01	-32	-0.02	
10	-21	-0.01	-29	-0.02	PASS
20	-19	-0.01	-26	-0.01	
30	-22	-0.01	-28	-0.01	
40	-20	-0.01	-30	-0.02	
50	-24	-0.01	-31	-0.02	

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# FCC RF Test Report

Band :	WCDMA Band V	Channel:	4182
Limit (ppm) :	2.5	Frequency:	836.4 MHz

	RMC 12	2.2Kbps	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	11	+0.01	
-20	10	+0.01	
-10	11	+0.01	
0	9	+0.01	
10	10	+0.01	PASS
20	8	+0.01	
30	8	+0.01	
40	10	+0.01	
50	9	+0.01	

Band :	WCDMA Band II	Channel:	9400
Limit (ppm):	2.5	Frequency:	1880.0 MHz

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	20	+0.01	
-20	18	+0.01	
-10	19	+0.01	
0	17	+0.01	
10	18	+0.01	PASS
20	18	+0.01	
30	16	+0.01	
40	-17	-0.01	
50	18	+0.01	

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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
		3.8	14	+0.02		
	GSM	BEP	14	+0.02		
GSM 850		4.2	15	+0.02		
CH189		3.8	14	+0.02		
	EDGE class 8	BEP	15	+0.02		
	0.000	4.2	14	+0.02		
		3.8	-19	-0.01		
	GSM	BEP	-20	-0.01	2.5	PASS
GSM 1900		4.2	-20	-0.01		
CH661	EDGE	3.8	-26	-0.01		
		EDGE class 8	BEP	-24	-0.01	
	0.000	4.2	-27	-0.01		
		3.8	8	+0.01		
WCDMA Band V CH4182	RMC 12.2Kbps	BEP	10	+0.01		
	12.21000	4.2	9	+0.01		
		3.8	18	+0.01		
WCDMA Band II CH9400	RMC 12.2Kbps	BEP	16	+0.01		
0110400	12.21000	4.2	19	+0.01		

#### Note:

- 1. Normal Voltage = 3.8V.
- 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	Oct. 15, 2013~ Oct. 17, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	N/A	Mar. 28, 2013	Oct. 15, 2013~ Oct. 17, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	N/A	Mar. 28, 2013	Oct. 15, 2013~ Oct. 17, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	N/A	Mar. 28, 2013	Oct. 15, 2013~ Oct. 17, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
ESCI TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Mar. 28, 2013	Oct. 18, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	Apr. 04, 2013	Oct. 18, 2013	Apr. 03, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Nov. 12, 2012	Oct. 18, 2013	Nov. 11, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Nov. 03, 2012	Oct. 18, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Turn Table	EM Electronice	EM 1000	N/A	0 ~ 360 degree	N/A	Oct. 18, 2013	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronice	EM 1000	N/A	1 m - 4 m	N/A	Oct. 18, 2013	N/A	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3GHz Gain 30dB	Mar. 28, 2013	Oct. 18, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Oct. 18, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF -Horn	Schwarzbeck	BBHA9170	BBHA917024 9	14GHz~40GHz	Nov. 23, 2012	Oct. 18, 2013	Nov. 22, 2013	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Sep. 03, 2013	Oct. 18, 2013	Sep. 02, 2014	ERP/EIRP (OTA01-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000MH z	N/A	Oct. 18, 2013	N/A	ERP/EIRP (OTA01-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	N/A	Oct. 18, 2013	N/A	ERP/EIRP (OTA01-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	N/A	Oct. 18, 2013	N/A	ERP/EIRP (OTA01-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

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

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

SPORTON INTERNATIONAL (SHENZHEN) INC.
TEL: 86-755- 3320-2398

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