FCC RF Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: Smartphone

BRAND NAME : BLU MODEL NAME : R1 HD

FCC ID : YHLBLUR1HD

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Apr. 29, 2016 and testing was completed on May 22, 2016. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in 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.

Prepared by: Ken Chen / Manager

Van Chen

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 1 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Testing Laboratory 2353

Report No.: FG642901A

TABLE OF CONTENTS

1	GEN	ERAL DESCRIPTION	5
2	1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8	Applicant	5 6 7 8
	2.1	Test Mode	9
	2.2	Connection Diagram of Test System	
	2.3	Support Unit used in test configuration	
	2.4	Measurement Results Explanation Example	11
3	CON	DUCTED TEST RESULT	12
	3.1	Measuring Instruments	12
	3.2	Test Setup	
	3.3	Test Result of Conducted Test	12
	3.4	Conducted Output Power	
	3.5	Peak-to-Average Ratio	
	3.6	99% Occupied Bandwidth and 26dB Bandwidth Measurement	
	3.7	Conducted Band Edge	
	3.8 3.9	Conducted Spurious Emission Frequency Stability	
4	RAD	IATED TEST ITEMS	
	4.1	Measuring Instruments	
	4.2	Test Setup	
	4.3 4.4	Test Result of Radiated Test Effective Radiated Power and Effective Isotropic Radiated Power Measurement	
	4.4	Field Strength of Spurious Radiation Measurement	
5		OF MEASURING EQUIPMENT	
o o	LIST	OF MEASURING EQUIPMENT	
6	UNC	ERTAINTY OF EVALUATION	23
ΑP	PEND	DIX A. TEST RESULTS OF CONDUCTED TEST	
ΑP	PEND	DIX B. TEST RESULTS OF RADIATED TEST	
ΑP	PEND	DIX C. TEST SETUP PHOTOGRAPHS	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 2 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE	
FG642901A	Rev. 01	Initial issue of report	May 31, 2016	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 3 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.4	§2.1046	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5)	Conducted Output Power	Reporting Only	PASS	-
3.5	§24.232(d)	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049 §22.917(b) §24.238(b) §27.53(g)	RSS-GEN(6.6) RSS-132(3.1) RSS-133(3.1) RSS-139 (3.1)	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
	§2.1055 §22.355	RSS-GEN(6.11) RSS-132 (5.3)	Eroquanay Stability for	< 2.5 ppm		
3.9	§2.1055 §24.235 §27.54	RSS-GEN(6.11) RSS-133 (6.3) RSS-139 (6.4)	Frequency Stability for Temperature & Voltage	Within Authorized Band	PASS	-
	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
4.4	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	RSS-139 (6.5) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
4.5	§2.1053 \$22.917(a) RSS-132 (5.5)		Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 21.26 dB at 3700.400 MHz

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 4 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

1 General Description

1.1 Applicant

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.2 Manufacturer

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Smartphone
Brand Name	BLU
Model Name	R1 HD
FCC ID	YHLBLUR1HD
	GSM/GPRS/EGPRS/WCDMA/HSPA/
EUT supports Radios application	HSPA+(16QAM uplink is not supported)/LTE/
	WLAN 2.4GHz 802.11b/g/n HT20/HT40/
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
	Conducted: 353919028179459/353919028229452
IMEI Code	Radiation: 353919028179467/353919028229460
	ERP/EIRP: 353919028179475/353919028229478
HW Version	V1.0
SW Version	BLU_P6607BN_V3.2_GENERIC
EUT Stage	Pre-Production

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 5 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

1.4 Product Specification of Equipment Under Test

Standards	-related Pro	oduct Specification		
211 11 11	GSM/GPRS/EDGE:			
	850:	824.2 MHz ~ 848.8 MHz		
	1900:	1850.2 MHz ~ 1909.8MHz		
Tx Frequency	WCDMA:			
	Band V:	826.4 MHz ~ 846.6 MHz		
	Band II:	1852.4 MHz ~ 1907.6 MHz		
	Band IV:	1712.4 MHz ~ 1752.6 MHz		
	GSM/GPF	RS/EDGE:		
	850:	869.2 MHz ~ 893.8 MHz		
	1900:	1930.2 MHz ~ 1989.8 MHz		
Rx Frequency	WCDMA:			
	Band V:	871.4 MHz ~ 891.6 MHz		
	Band II:	1932.4 MHz ~ 1987.6 MHz		
	Band IV:	2112.4 MHz ~ 2152.6 MHz		
	GSM/GPRS/EDGE:			
	850:	32.87 dBm		
	1900:	29.87 dBm		
Maximum Output Power to Antenna	WCDMA:			
	Band V:	22.88 dBm		
		21.77 dBm		
	Band IV:	21.62 dBm		
Antenna Type	PIFA Anten			
	GSM: GMS			
	GPRS: GM			
Type of Modulation	EDGE: GM	QPSK (Uplink)		
		PSK (Uplink)		
	HSUPA: QFSK (Uplink)			
	HSPA+ : 16QAM (16QAM uplink is not supported)			

1.5 Modification of EUT

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 6 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

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	0.3236	0.0359 ppm	245KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.0813	0.0323 ppm	235KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0303	0.0143 ppm	4M21F9W
Part 24	GSM1900 GSM	GMSK	1.2677	0.0133 ppm	243KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.4853	0.0170 ppm	241KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2216	0.0053 ppm	4M22F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1920	0.0063 ppm	4M22F9W

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 7 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.				
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,				
Toot Cita Location	Nanshan District, Shenzhen, Guangdong, P. R. China				
Test Site Location	TEL: +86-755-8637-9589				
	FAX: +86-755-8637-9595				
Took Cito No	Sporton Site No.				
Test Site No.	TH01-SZ				

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
	No. 3 Building, the third floor of se	outh, Shahe River west, Fengzeyuan				
Test Site Location	warehouse, Nanshan District, Shenzh	en, Guangdong, P. R. China				
	TEL: +86-755- 3320-2398					
Toot Cita No	Sporton Site No.	FCC/IC Registration No.				
Test Site No.	03CH03-SZ 565805/4086F					

Note: The test site complies with ANSI C63.4 2014 requirement.

1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 8 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated from 30MHz to the 10th harmonic.

All modes and data rates and positions were investigated.

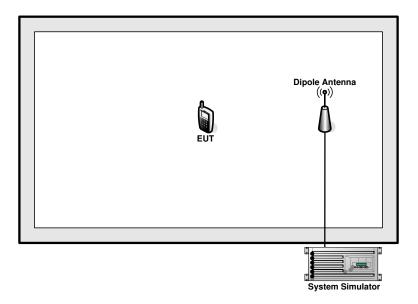
Test modes are chosen to be reported as the worst case configuration below:

Test Modes							
Band	Radiated TCs	Conducted TCs					
GSM 850	■ GSM Link	■ GSM Link					
GSW 650	■ EDGE class 8 Link	■ EDGE class 8 Link					
GSM 1900	■ GSM Link	■ GSM Link					
G5W 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					
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

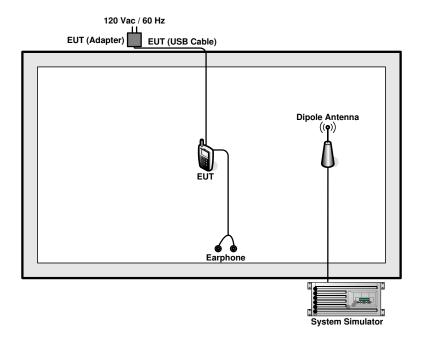
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 9 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

2.2 Connection Diagram of Test System

For 22H



For 24E/ 27L



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 10 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Apple	MC525 ZP/A	N/A	Unshielded, 1.2 m	N/A

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 RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.5 dB and a 10dB attenuator.

Example:

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$

= 4.5 + 10 = 14.5 (dB)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 11 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

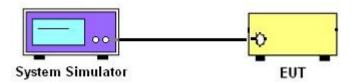
3 Conducted Test Result

3.1 Measuring Instruments

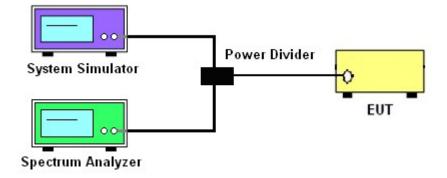
See list of measuring instruments of this test report.

3.2 Test Setup

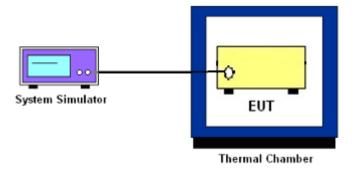
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 12 of 23 Report Issued Date : May 31, 2016

Report No.: FG642901A

Report Version : Rev. 01

3.4 Conducted Output Power

3.4.1 Description of the Conducted Output Power

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

3.4.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. 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.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.7.1.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. Set EUT to transmit at maximum output power.
- 4. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
- 5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 13 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
 The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 5. Set the detection mode to peak, and the trace mode to max hold.
- 6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 7. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 14 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

3.7 Conducted Band Edge

3.7.1 Description of Conducted 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.

3.7.2 Test Procedures

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 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)
 - $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
 - = -13dBm.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 15 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

3.8 Conducted Spurious Emission

3.8.1 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.

3.8.2 Test Procedures

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. 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.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 16 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

3.9 Frequency Stability

3.9.1 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.

3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. 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.
- 4. With power OFF, the temperature was raised in 10°C steps 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.

3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 17 of 23

Report Issued Date : May 31, 2016

Report Version : Rev. 01

Report No.: FG642901A

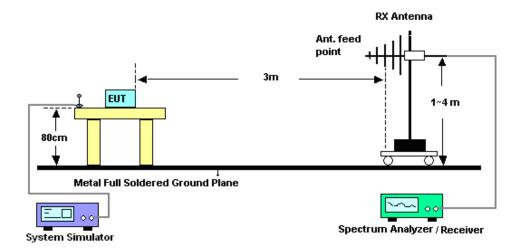
4 Radiated Test Items

4.1 Measuring Instruments

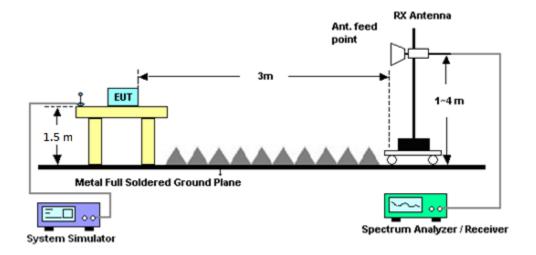
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 18 of 23
Report Issued Date : May 31, 2016

Report No.: FG642901A

Report Version : Rev. 01

4.4 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

4.4.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-D-2010, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band) and 1 Watts (AWS Band).

4.4.2 Test Procedures

- The testing follows FCC KDB 971168 D01 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-D-2010 Section 2.2.17.
- 2. The EUT was placed on a non-conductive rotating platform (0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz) in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
- 3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP = LVL + Correction factor and ERP = EIRP 2.15. Take the record of the output power at substitution antenna.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 19 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

	GSM/GPRS/EDGE	WCDMA/HSPA
SPAN	500kHz	10MHz
RBW	10kHz	100kHz
VBW	30kHz	300kHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 20 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

4.5 Field Strength of Spurious Radiation Measurement

4.5.1 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.

4.5.2 Test Procedures

- The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
 - = -13dBm.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 21 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	May 07, 2016	May 09, 2016	May 06, 2017	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Aug. 07, 2015	May 09, 2016	Aug. 06, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	May 07, 2016	May 22, 2016	May 06, 2017	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz	May 07, 2016	May 22, 2016	May 06, 2017	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 21, 2016	May 22, 2016	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120 D	9120D-1355	1GHz~18GHz	May 07, 2016	May 22, 2016	May 06, 2017	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug. 19, 2015	May 22, 2016	Aug. 18, 2016	Radiation (03CH03-SZ)
Amplifier	PREAMPLIFIER	BPA-530	102210	0.01Hz ~3000MHz	Oct. 20, 2015	May 22, 2016	Oct. 19, 2016	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 12, 2016	May 22, 2016	Jan. 11, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 18, 2015	May 22, 2016	Jul. 17, 2016	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	61601000 1985	N/A	NCR	May 22, 2016	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 22, 2016	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 22, 2016	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 22 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	5 O ID
Confidence of 95% (U = 2Uc(y))	5.0dB

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : 23 of 23
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

For SIM1 Card

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	32.82	32.84	<mark>32.87</mark>	29.30	29.68	<mark>29.87</mark>	
GPRS class 8	32.81	32.82	32.85	29.27	29.64	29.84	
GPRS class 10	32.25	32.27	32.28	26.95	27.64	27.94	
GPRS class 11	30.77	30.78	30.79	24.90	25.44	25.98	
GPRS class 12	29.69	29.71	29.79	23.78	24.38	24.91	
EGPRS class 8	26.55	26.60	26.68	25.56	25.77	25.94	
EGPRS class 10	25.58	25.64	25.77	22.64	22.81	23.03	
EGPRS class 11	23.58	23.68	23.78	20.49	20.74	20.80	
EGPRS class 12	22.62	22.74	22.80	19.38	19.67	19.77	

Conducted Power (*Unit: dBm)									
Band	WC	DMA Bar	nd V	WC	DMA Bai	nd II	WCI	WCDMA Band IV	
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2Kbps	22.79	22.85	22.84	21.43	21.74	21.61	21.41	21.60	21.59
RMC 12.2Kbps	22.82	<mark>22.88</mark>	22.85	21.45	<mark>21.77</mark>	21.63	21.42	<mark>21.62</mark>	21.60
HSDPA Subtest-1	21.53	21.75	21.71	20.17	20.56	20.27	20.09	20.36	20.48
HSDPA Subtest-2	21.60	21.75	21.68	20.12	20.56	20.26	20.08	20.36	20.49
HSDPA Subtest-3	21.09	21.23	21.21	19.69	20.06	19.82	19.64	19.95	20.00
HSDPA Subtest-4	21.09	21.23	21.16	19.66	20.01	19.79	19.62	19.92	19.99
HSUPA Subtest-1	19.56	19.72	19.66	18.23	18.64	18.39	18.16	18.45	18.62
HSUPA Subtest-2	19.57	19.73	19.68	18.20	18.57	18.29	18.14	18.37	18.48
HSUPA Subtest-3	20.56	20.74	20.66	19.16	19.54	19.28	19.13	19.37	19.44
HSUPA Subtest-4	19.07	19.23	19.18	17.70	18.05	17.86	17.51	17.98	17.92
HSUPA Subtest-5	21.50	21.70	21.60	20.20	20.50	20.20	20.00	20.40	20.40

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A1 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

For SIM2 Card

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	32.76	32.73	<mark>32.77</mark>	29.25	29.67	<mark>29.81</mark>	
GPRS class 8	32.74	32.72	32.76	29.23	29.55	29.80	
GPRS class 10	32.22	32.23	32.24	26.92	27.61	27.92	
GPRS class 11	30.75	30.73	30.77	24.88	25.40	25.93	
GPRS class 12	29.64	29.67	29.72	23.74	24.36	24.87	
EGPRS class 8	26.53	26.58	26.60	25.52	25.74	25.93	
EGPRS class 10	25.49	25.61	25.73	22.61	22.78	23.01	
EGPRS class 11	23.54	23.66	23.73	20.47	20.70	20.78	
EGPRS class 12	22.57	22.73	22.73	19.35	19.62	19.74	

Conducted Power (*Unit: dBm)									
Band	WC	DMA Bar	nd V	WC	DMA Baı	nd II	WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2Kbps	22.77	22.82	22.81	21.41	21.72	21.60	21.40	21.58	21.57
RMC 12.2Kbps	22.79	<mark>22.85</mark>	22.84	21.43	<mark>21.74</mark>	21.61	21.41	<mark>21.60</mark>	21.59
HSDPA Subtest-1	21.49	21.67	21.61	20.11	20.48	20.24	20.09	20.33	20.46
HSDPA Subtest-2	21.53	21.73	21.65	20.07	20.51	20.24	20.05	20.35	20.49
HSDPA Subtest-3	21.08	21.23	21.20	19.70	20.05	19.81	19.55	19.91	20.01
HSDPA Subtest-4	21.04	21.18	21.16	19.65	20.02	19.76	19.56	19.85	19.96
HSUPA Subtest-1	19.54	19.70	19.65	18.22	18.60	18.34	18.15	18.42	18.44
HSUPA Subtest-2	19.57	19.72	19.68	18.16	18.56	18.24	18.08	18.36	18.43
HSUPA Subtest-3	20.55	20.70	20.65	19.14	19.52	19.24	19.07	19.36	19.44
HSUPA Subtest-4	19.04	19.20	19.14	17.68	18.02	17.84	17.57	17.95	17.93
HSUPA Subtest-5	21.43	21.65	21.51	20.10	20.42	20.14	20.00	20.35	20.22

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A2 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

Peak-to-Average Ratio

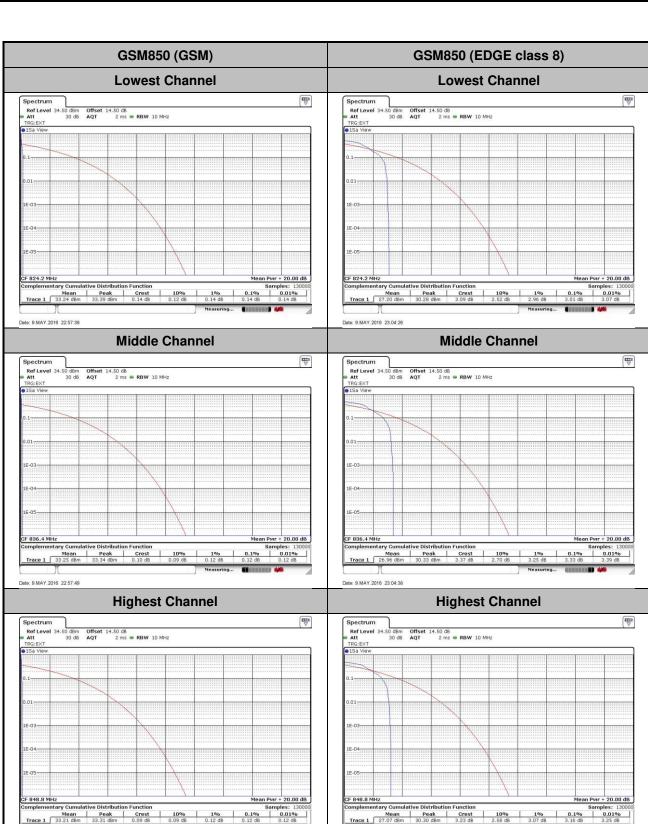
Mode	GSM85	Limit: 13dB		
Mod.	GSM	EDGE class 8	Result	
Lowest CH	0.14	3.01		
Middle CH	0.12	3.33	PASS	
Highest CH	0.12	3.16	1	

Mode	GSM1900 (dB)		Limit: 13dB	
Mod.	GSM	GSM EDGE class 8		
Lowest CH	0.12	2.99		
Middle CH	0.12	2.93	PASS	
Highest CH	0.12	3.04		

Mode	WCDMA Band V (dB)	WCDMA Band II (dB)	WCDMA Band IV (dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.07	2.35	2.55	
Middle CH	3.19	2.23	2.75	PASS
Highest CH	3.36	2.49	2.64	

SPORTON INTERNATIONAL (SHENZHEN) INC.

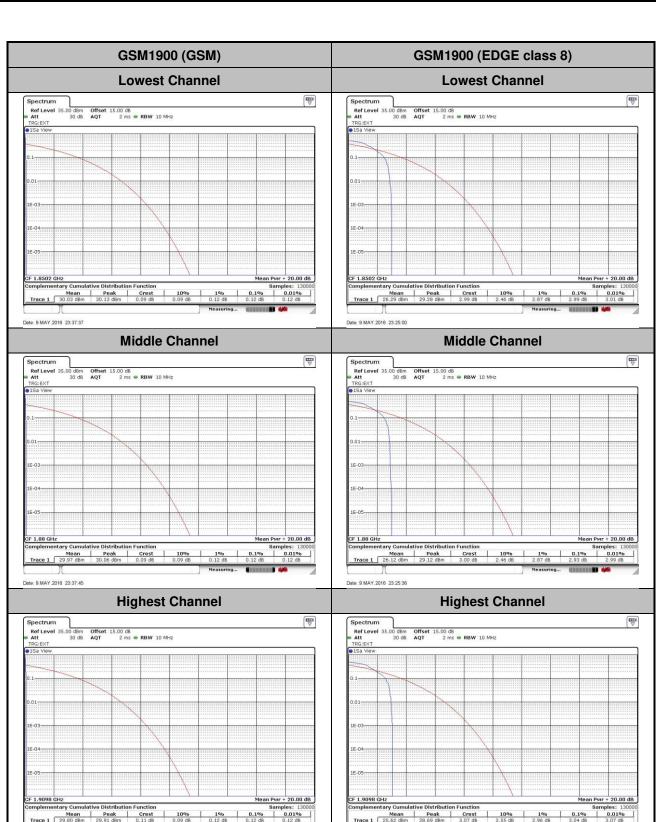
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A3 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1



Samples: 130000 0.1% 0.01% 0.12 dB 0.12 dB

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD

: A4 of A33 Page Number Report Issued Date: May 31, 2016 Report Version : Rev. 01 Report Template No.: BU5-FG22/24/27 Version 1.1



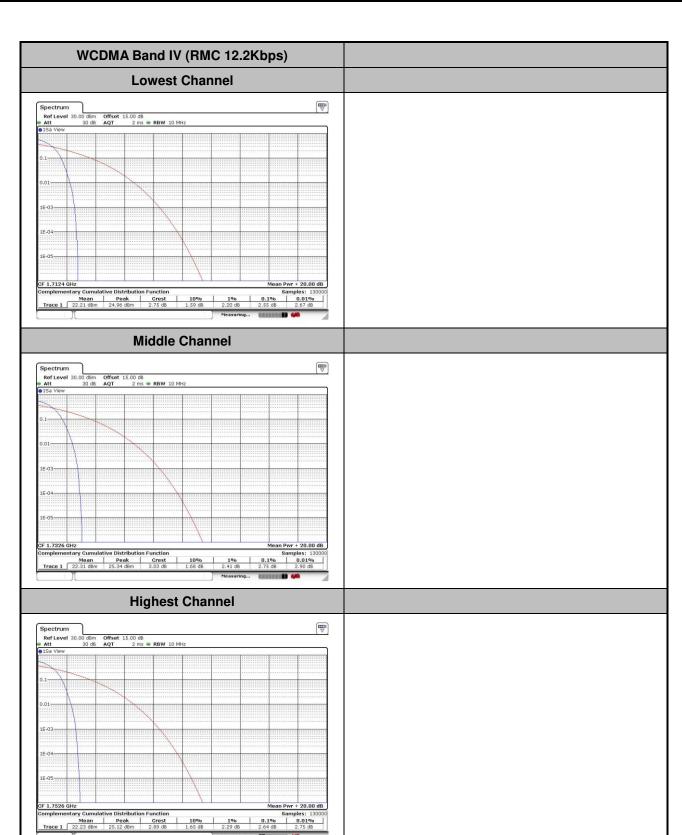
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A5 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

WCDMA Band II (RMC 12.2Kbps) WCDMA Band V (RMC 12.2Kbps) **Lowest Channel Lowest Channel** Offset 14.50 dB AQT 2 ms = RBW 10 MHz Samples: 130000 **Middle Channel Middle Channel** Ref Level 30.00 dBm Att 30 dB Offset 15.00 dB AQT 2 ms | Samples: 130000 | 196 | 0.196 | 0.0196 | | 1.97 dB | 2.23 dB | 2.38 dB | | 0.1% | 0.01% | | 3.19 dB | 3.48 dB | **Highest Channel Highest Channel** 14.50 dB 2 ms • RBW 10 MHz | Samples: 130 | 1% | 0.1% | 0.01% | 2.81 dB | 3.36 dB | 3.68 dB

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A6 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A7 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

26dB Bandwidth

Mode	GSM850 (dBm)			
Mod.	GSM	EDGE class 8		
Lowest CH	0.317	0.288		
Middle CH	0.316	0.294		
Highest CH	0.312	0.287		

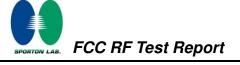
Mode	GSM1900 (dBm)		
Mod.	GSM	EDGE class 8	
Lowest CH	0.316	0.310	
Middle CH	0.316	0.302	
Highest CH	0.314	0.309	

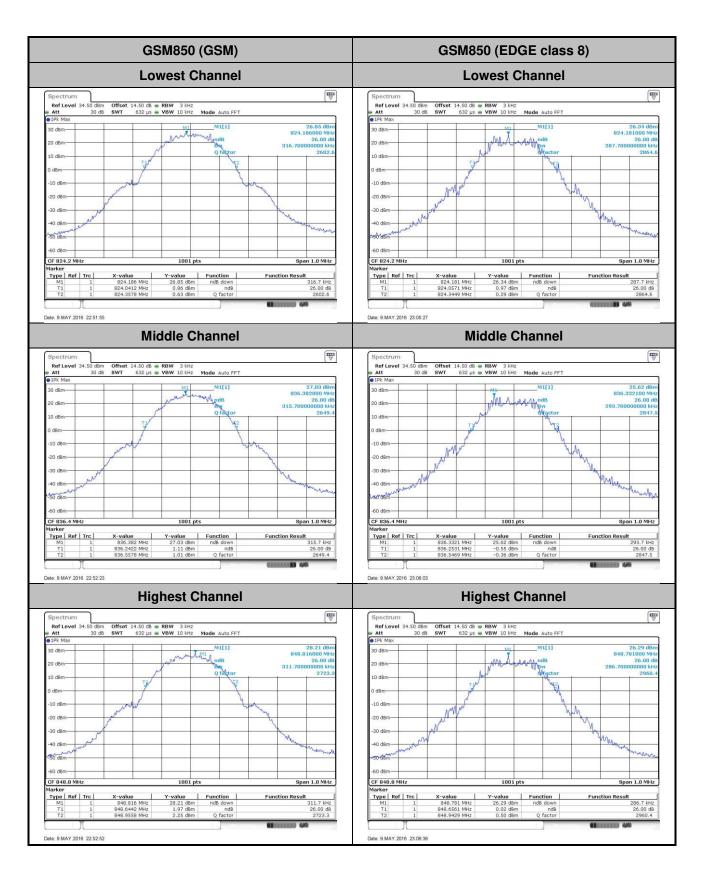
Mode	WCDMA Band V (dBm)	WCDMA Band II (dBm)	WCDMA Band IV (dBm)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.87	4.92	4.88
Middle CH	4.86	4.93	4.86
Highest CH	4.85	4.90	4.87

SPORTON INTERNATIONAL (SHENZHEN) INC.

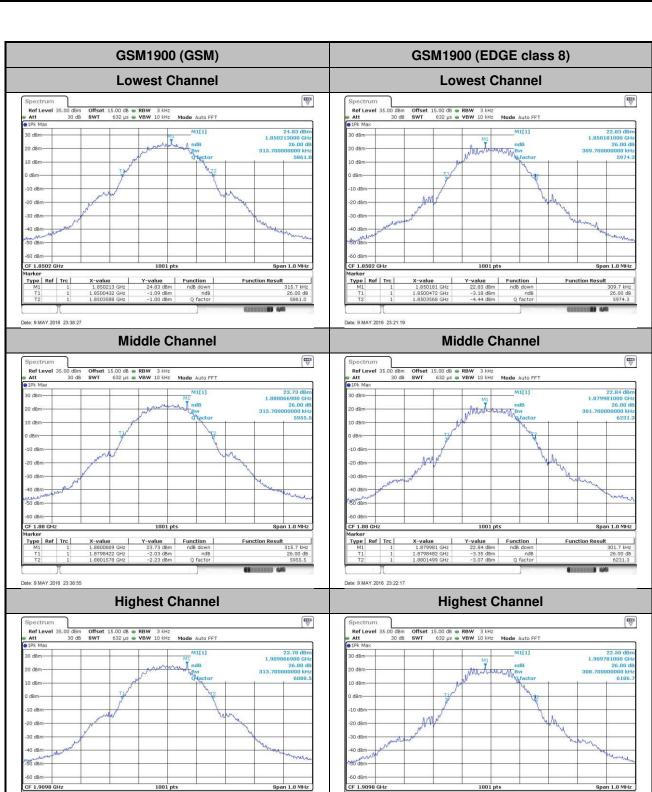
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A8 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A





TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A9 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1



SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A10 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel** 19.25 dBr 825.53100 MH 26.00 d 4.865000000 MH M1[1] M1[1] 18.87 dB 169 376 Function Result 4.865 MHz 26.00 dB *40.7 Function Result 4.915 MHz 26.00 dB Type Ref Trc Type | Ref | Trc | Y-value Function
19,25 dBm ndB down **Middle Channel Middle Channel** Ref Level 30.00 dBm Offset 14.50 dB ● RBW 100 kHz SWT 19 µs ● VBW 300 kHz Mode Auto FFT 19 µs • VBW 300 kHz Mode Auto FFT CF 1.88 GH Function Result 4.925 MHz 26.00 dB 381.5 Type | Ref | Trc | Type | Ref | Trc | Function ndB down **Highest Channel Highest Channel** 19.06 dBi 845.73100 MF 26.00 d 4.845000000 MF M1[1] M1[1] 18 99 dB

Span 10.0 MHz

CF 1.9076 GHz

Type Ref Trc

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD

CF 846.6 MH

Page Number : A11 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Span 10.0 MHz

Report No.: FG642901A

Report Template No.: BU5-FG22/24/27 Version 1.1

1001 pts



SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A12 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

Occupied Bandwidth

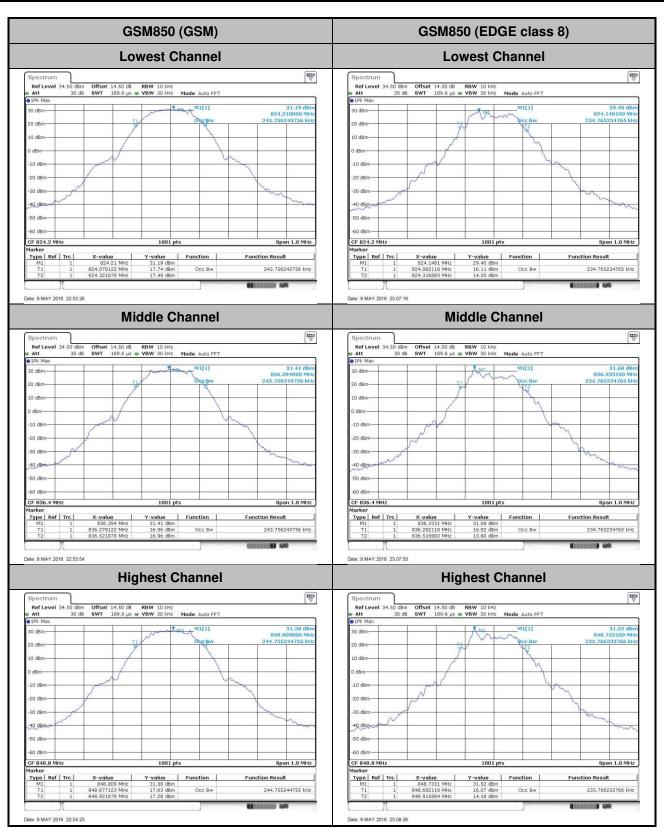
Mode	GSM850 (dBm)			
Mod.	GSM	EDGE class 8		
Lowest CH	0.244	0.235		
Middle CH	0.244	0.235		
Highest CH	0.245	0.234		

Mode	GSM1900 (dBm)		
Mod.	GSM	EDGE class 8	
Lowest CH	0.243	0.240	
Middle CH	0.242	0.241	
Highest CH	0.242	0.239	

Mode	WCDMA Band V (dBm)	WCDMA Band II (dBm)	WCDMA Band IV (dBm)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.20	4.22	4.22
Middle CH	4.19	4.22	4.20
Highest CH	4.21	4.21	4.22

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A13 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1



SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A14 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.1

GSM1900 (GSM) GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel** 1001 pts CF 1.8502 GHz 242.757242757 kHz 239.76023976 kHz Date: 9.MAY.2016 23:40:08 Date: 9.MAY.2016 23:23:23 **Middle Channel Middle Channel** 1001 pts CF 1.88 GH Type | Ref | Trc | Type | Ref | Trc | Y-value Function 2 28.44 d8m Function **Function Result Function Result** 241.758241758 kHz 240.759240759 kHz Date: 9.MAY.2016 23:40:37 Date: 9.MAY.2016 23:23:56 **Highest Channel Highest Channel** 28.31 dBn Type | Ref | Trc | Type | Ref | Trc | 241.758241758 kHz 238.761238761 kHz

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A15 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel**
 Offset
 15.00 dB
 RBW
 100 kHz

 SWT
 19 μs
 VBW
 300 kHz
 Mode
 Auto FFT
 19 µs • VBW 300 kHz Mode Auto FFT 19.37 dBn 1.85153100 GH 4.215784216 MH M1[1] CF 1.8524 GHz Y-value Function

19.05 dBm

9.38 dBm Occ Bw

8.93 dBm Type | Ref | Trc | Function Result Type | Ref | Trc | Function **Function Result** 4.195804196 MHz 4.215784216 MHz **Middle Channel Middle Channel** .50 dB **RBW** 100 kHz 19 μs **WBW** 300 kHz **Mode** Auto FFT 18.19 dBi 836.97900 MH 4.185814186 MH 19.05 dBm 1.87913100 GHz 4.215784216 MHz Type | Ref | Trc | Type | Ref | Trc | 4.185814186 MHz **Highest Channel Highest Channel** | Ref Level | 30.00 dBm | Offset | 15.00 dB | RBW | 100 kHz | Att | 30 dB | SWT | 19 µs | VBW | 300 kHz | Mode | Auto FFT | 19.04 dBi 845.73100 MF 4.205794206 MF M1[1] 20 dBm CF 846.6 M Marker Type Ref Trc Y-value Function **Function Result** Type Ref Trc

SPORTON INTERNATIONAL (SHENZHEN) INC.

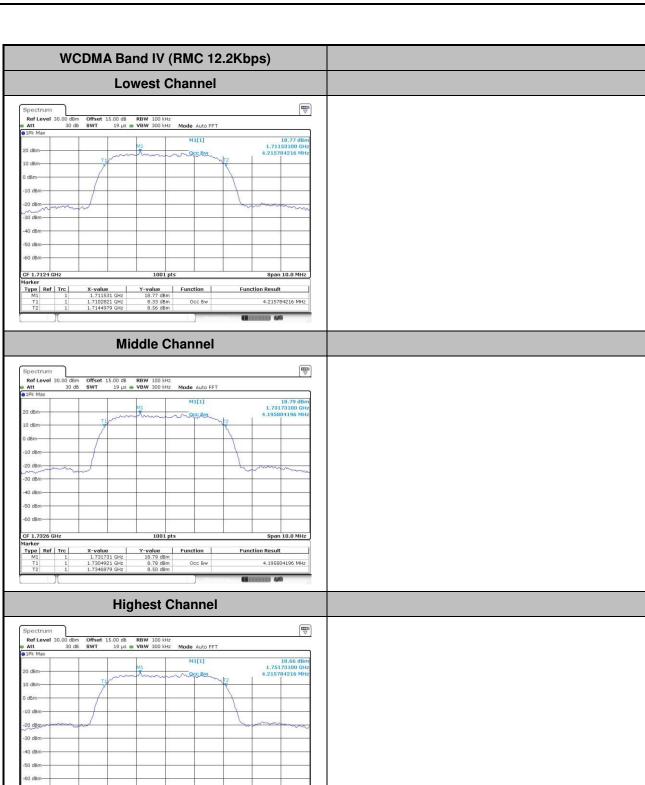
Occ Bw

4.205794206 MHz

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A16 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

4.205794206 MHz

Report No.: FG642901A



SPORTON INTERNATIONAL (SHENZHEN) INC.

Function

Occ Bw

Function Result

4.215784216 MHz

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD

Type Ref Trc

Page Number : A17 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

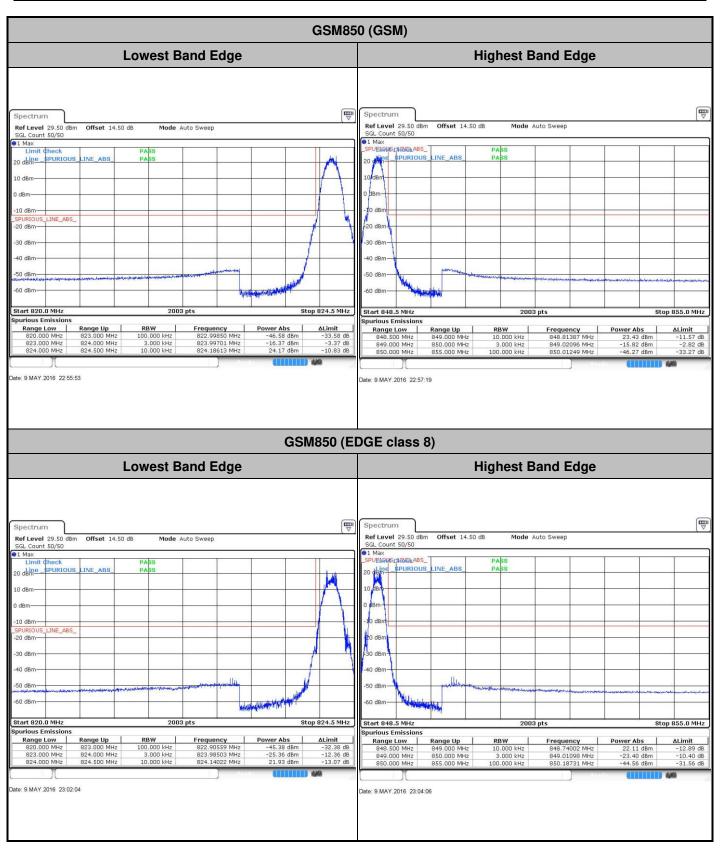
Report No.: FG642901A

Conducted Band Edge

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A18 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

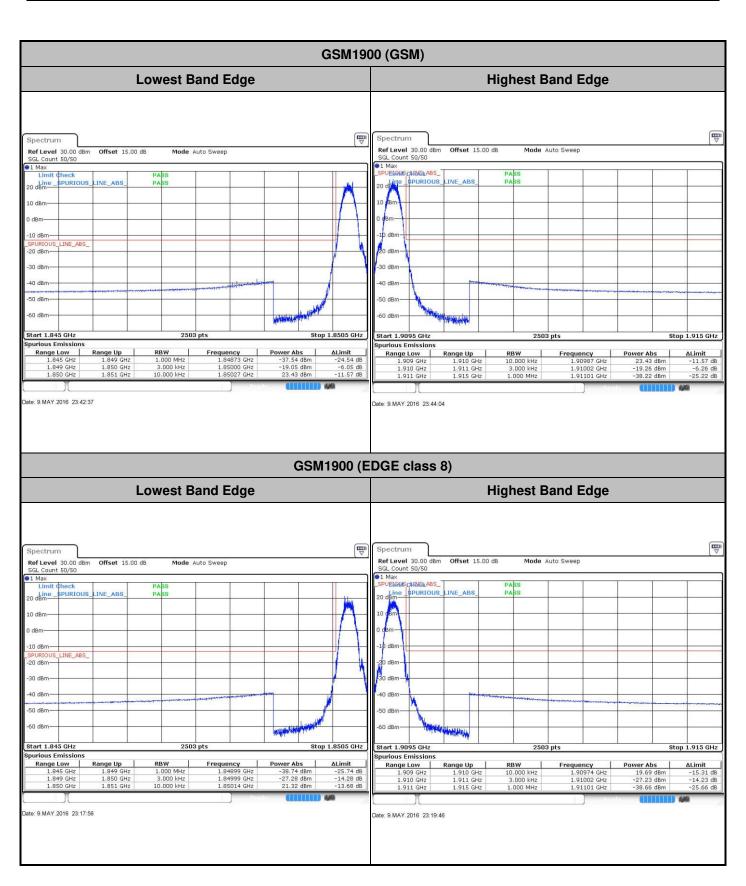
Report No.: FG642901A



SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A19 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

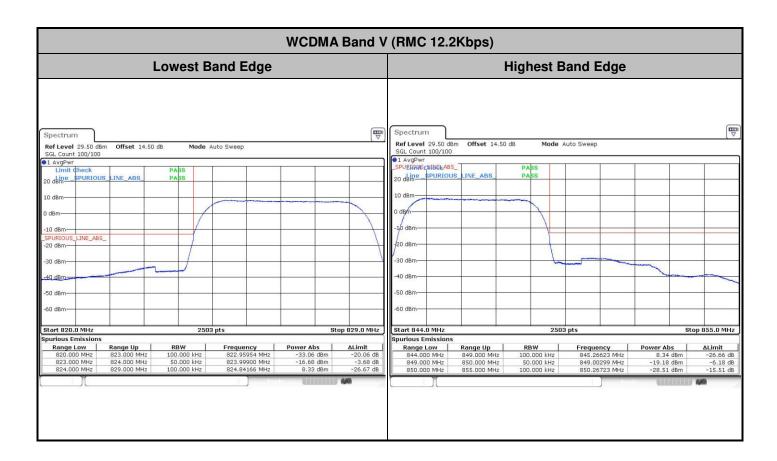
Report No.: FG642901A



SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A20 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

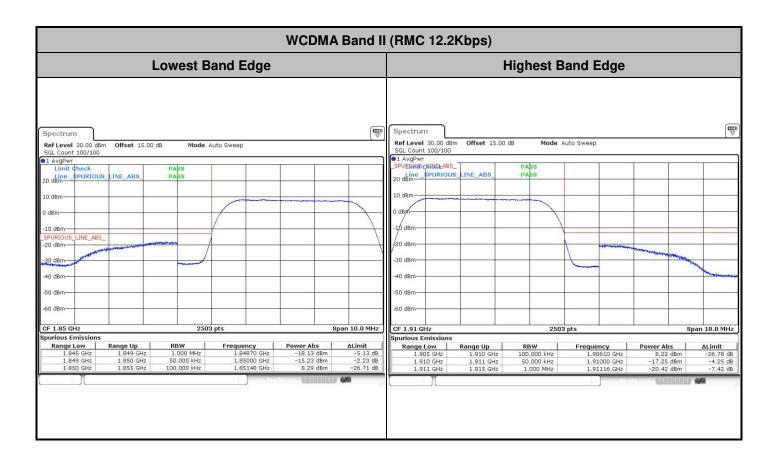


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A21 of A33

Report Issued Date : May 31, 2016

Report Version : Rev. 01

Report No.: FG642901A



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A22 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A