FCC RF Test Report

APPLICANT : CT Asia (HK) Ltd. EQUIPMENT : Smart phone

BRAND NAME : BLU

MODEL NAME : STUDIO SELFIE FCC ID : YHLBLUSTSELFIE

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 Jul. 23, 2015 and testing was completed on Aug. 14, 2015. 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-C-2004 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.

Reviewed by: Joseph Lin / Supervisor

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Report Issued Date : Aug. 25, 2015

Testing Laboratory

Report No. : FG572303

Report Version : Rev. 01

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APPENDIX A. SETUP PHOTOGRAPHS

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG572303	Rev. 01	Initial issue of report	Aug. 25, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5)	Conducted Output Power	Reporting Only	PASS	-
3.2	§24.232(d)	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5)	Peak-to-Average Ratio	< 13 dB	PASS	-
	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	RSS-139 (6.5) SRSP-513(5.1.2)	< 1 Watts		PASS	-
3.4	§2.1049	RSS-GEN(6.6) RSS-133(6.5) RSS-139 (3.1)	Occupied Bandwidth	Reporting Only	PASS	-
3.5	§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	-
3.6	§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	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 6.94 dB at 3700.400 MHz
3.8	\$2.1055 \$22.355 \$2.1055 \$24.235 \$27.54	RSS-GEN(6.11) RSS-132 (5.3) RSS-GEN(6.11) RSS-133 (6.3) RSS-139 (6.4)	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22 Within Authorized Band	PASS	-

SPORTON INTERNATIONAL (SHENZHEN) INC.

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1 **General Description**

1.1 Applicant

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.2 Manufacturer

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	Smart phone					
Brand Name	BLU					
Model Name	STUDIO SELFIE					
FCC ID	YHLBLUSTSELFIE					
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only) WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+EDR/Bluetooth v4.0 LE					
HW Version	LWLM003B1					
SW Version	BLU_S070A_V02					
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.

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1.4 Product Specification subjective to this standard

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 IV : 1712.4 MHz ~ 1752.6 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 IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz					
Maximum Output Power to Antenna	GSM850: 32.62 dBm GSM1900: 29.91 dBm WCDMA Band V: 23.20 dBm WCDMA Band IV: 22.55 dBm WCDMA Band II: 22.52 dBm					
Antenna Type	Monopole Antenna					
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink Only)					

1.5 Modification of EUT

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

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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	, ,	Emission Designator
Part 22	GSM850 GSM	GMSK	0.4266	0.0753 ppm	246KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.1107	0.0693 ppm	245KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0434	0.0622 ppm	4M17F9W
Part 24	GSM1900 GSM	GMSK	1.1194	0.0495 ppm	246KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.4207	0.0479 ppm	243KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2143	0.0383 ppm	4M17F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1225	0.0375 ppm	4M20F9W

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1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.						
Test Site Location	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						
Toot Site No	Sporton Site No.						
Test Site No.	TH01-SZ						

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

Note: The test site complies with ANSI C63.4 2009 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-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- IC RSS-132 Issue 3
- IC RSS-133 Issue 6
- IC RSS-139 Issue 3
- IC RSS-Gen Issue 4

Remark:

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

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Test Configuration of Equipment Under Test

Test Mode 2.1

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 as following frequency range:

- 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
- 30 MHz to 10th harmonic for WCDMA Band IV 2.
- 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

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						
G2M 920	■ EDGE class 8 Link	■ EDGE class 8 Link						
GSM 1900	■ GSM Link	■ GSM Link						
	■ 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						

Note: The maximum power levels are chosen to test as the worst case configuration as follows:

GSM mode for GMSK modulation,

EDGE multi-slot class 8 mode for 8PSK modulation,

RMC 12.2Kbps mode for WCDMA band V and WCDMA band IV,

RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

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Conducted Power Measurement Results:

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	32.62	32.56	32.54	<mark>29.91</mark>	29.73	29.67			
GPRS class 8	32.61	32.53	32.49	29.90	29.72	29.64			
GPRS class 10	31.85	31.82	31.79	29.20	29.02	28.93			
GPRS class 11	30.05	30.03	30.02	27.42	27.26	27.22			
GPRS class 12	28.92	28.91	28.90	26.35	26.22	26.13			
EGPRS class 8	26.58	26.57	26.55	26.68	26.38	26.08			
EGPRS class 10	25.82	25.80	25.71	25.67	25.50	25.12			
EGPRS class 11	23.92	23.91	23.74	23.32	23.21	22.86			
EGPRS class 12	22.79	22.75	22.67	21.99	21.89	21.45			

Conducted Power (*Unit: dBm)									
Band	WC	DMA Bar	nd V	WCDMA Band 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 12.2K	23.18	23.00	23.14	22.47	22.50	22.47	22.54	22.53	22.37
RMC 12.2K	23.20	23.02	23.15	22.49	22.52	22.48	22.55	22.54	22.39
HSDPA Subtest-1	22.16	22.04	22.09	21.30	21.32	21.29	21.60	21.56	21.33
HSDPA Subtest-2	22.16	22.04	22.09	21.33	21.34	21.31	21.58	21.53	21.30
HSDPA Subtest-3	21.74	21.62	21.69	20.85	20.87	20.83	21.12	21.11	20.94
HSDPA Subtest-4	21.69	21.56	21.59	20.84	20.88	20.82	21.08	21.05	20.93
HSUPA Subtest-1	20.15	20.05	20.11	19.27	19.29	19.24	19.66	19.60	19.40
HSUPA Subtest-2	20.13	20.06	20.12	19.24	19.28	19.23	19.52	19.51	19.25
HSUPA Subtest-3	21.09	21.05	21.08	20.25	20.27	20.18	20.54	20.44	20.24
HSUPA Subtest-4	19.69	19.63	19.65	18.74	18.81	18.71	19.09	19.06	18.78
HSUPA Subtest-5	22.15	22.10	22.12	21.30	21.40	21.29	21.70	21.60	21.30

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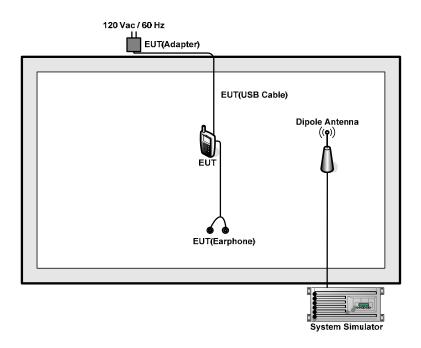
For SIM2 Card:

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	<mark>32.60</mark>	32.52	32.50	<mark>29.89</mark>	29.70	29.65			
GPRS class 8	32.58	32.50	32.45	29.87	29.65	29.62			
GPRS class 10	31.83	31.80	31.77	29.19	28.99	28.91			
GPRS class 11	30.03	30.00	29.98	27.40	27.24	27.21			
GPRS class 12	28.90	28.84	28.78	26.33	26.19	26.11			
EGPRS class 8	26.57	26.53	26.54	26.65	26.35	26.05			
EGPRS class 10	25.80	25.79	25.70	25.65	25.48	25.10			
EGPRS class 11	23.90	23.90	23.73	23.31	23.20	22.85			
EGPRS class 12	22.75	22.74	22.65	21.97	21.87	21.43			

		Condu	cted Pov	ver (*Uni	t: dBm)					
Band	WC	DMA Bar	nd V	WC	WCDMA Band 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 12.2K	23.15	22.98	23.13	22.47	22.48	22.45	22.52	22.51	22.34	
RMC 12.2K	23.17	22.99	23.14	22.48	22.50	22.47	22.53	22.52	22.35	
HSDPA Subtest-1	22.13	22.01	22.08	21.30	21.28	21.27	21.55	21.53	21.29	
HSDPA Subtest-2	22.13	22.01	22.08	21.33	21.30	21.28	21.53	21.50	21.26	
HSDPA Subtest-3	21.71	21.59	21.68	20.85	20.84	20.82	21.07	21.06	20.90	
HSDPA Subtest-4	21.66	21.53	21.58	20.82	20.83	20.81	21.03	21.02	20.89	
HSUPA Subtest-1	20.12	20.02	20.10	19.24	19.25	19.23	19.61	19.57	19.36	
HSUPA Subtest-2	20.10	20.03	20.11	19.22	19.23	19.20	19.47	19.46	19.21	
HSUPA Subtest-3	21.06	21.02	21.07	20.21	20.23	20.17	20.49	20.41	20.20	
HSUPA Subtest-4	19.66	19.60	19.64	18.74	18.77	18.70	19.04	19.03	18.74	
HSUPA Subtest-5	22.12	22.07	22.11	21.28	21.36	21.25	21.65	21.57	21.26	

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2.2 Connection Diagram of Test System



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

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2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between 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)

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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

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.

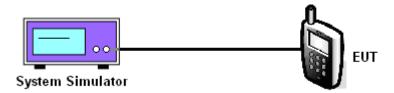
3.1.2 Measuring Instruments

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 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.
- 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	GSM850 (GSM)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)				
Channel	128 (Low)	189 (Mid)	251 (High)	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)	32.62	32.56	32.54	26.58	26.57	26.55	23.20	23.02	23.15		

	PCS Band										
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)				
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		
Conducted Power (dBm)	29.91	29.73	29.67	26.68	26.38	26.08	22.49	22.52	22.48		

	AWS Band									
Modes	WCDMA Band IV (RMC 12.2Kbps)									
Channel	1312(Low)	1513 (High)								
Frequency (MHz)	1712.4	1732.6	1752.6							
Conducted Power (dBm)	22.55	22.54	22.39							

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.

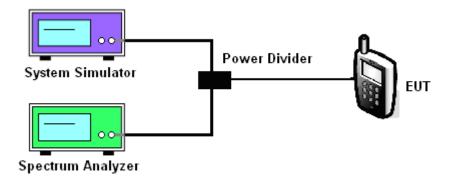
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector on spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector on 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 has synchronized with the spectrum analyzer.
- 4. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option on the spectrum
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



SPORTON INTERNATIONAL (SHENZHEN) INC.

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3.2.5 Test Result of Peak-to-Average Ratio

Cellular Band									
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	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
Peak-to-Average Ratio (dB)	0.35	0.34	0.34	2.45	2.35	2.36	3.13	2.78	3.07

	PCS Band									
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)			
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)	0.30	0.31	0.32	3.01	2.70	3.05	2.81	2.96	2.75	

AWS Band								
Modes	WCDMA Band IV (RMC 12.2Kbps)							
Channel	1312(Low) 1413 (Mid) 1513 (High)							
Frequency (MHz)	1712.4	1732.6	1752.6					
Peak-to-Average Ratio (dB)	2.12	2.26	2.26					

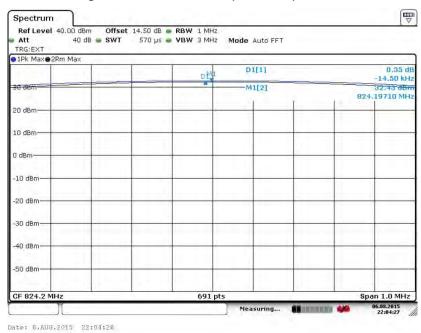
SPORTON INTERNATIONAL (SHENZHEN) INC.

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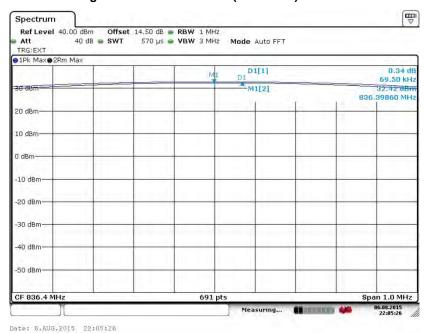
3.2.6 Test Result (Plots) of Peak-to-Average Ratio

Band: GSM 850 Test Mode: GSM Link (GMSK)

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



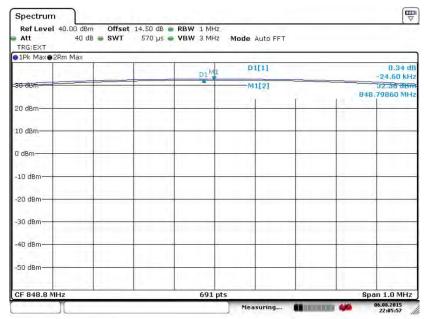
Peak-to-Average Ratio on Channel 189 (836.4 MHz)



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

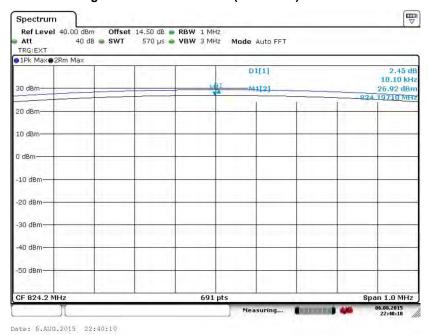


Date: 6.AUG.2015 22:05:57

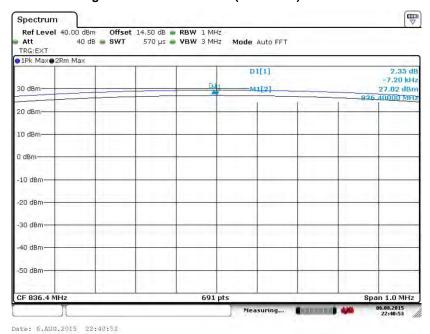
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Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



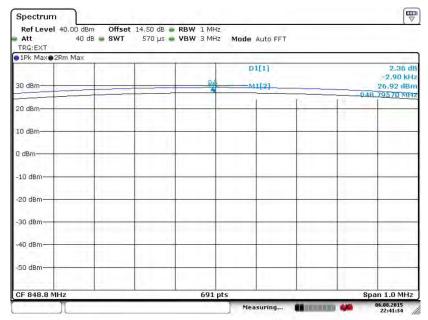
Peak-to-Average Ratio on Channel 189 (836.4 MHz)



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

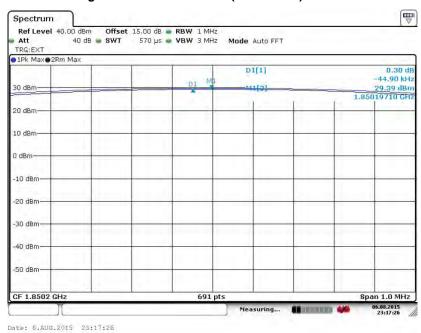


Date: 6.AUG.2015 22:41:34

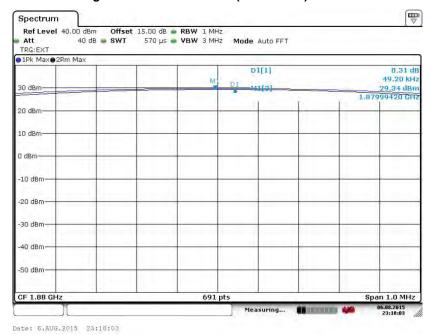
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 21 of 120
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Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



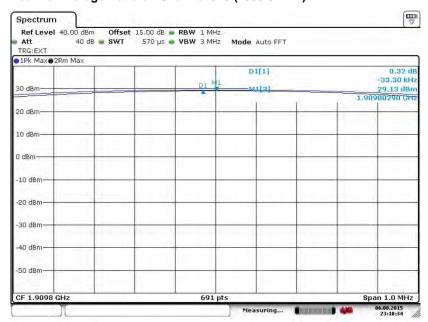
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



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

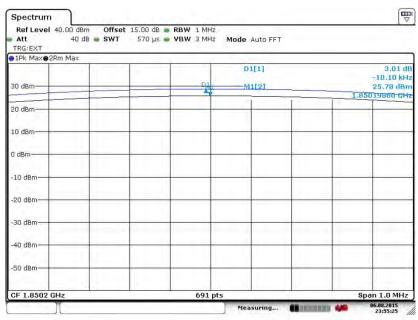


Date: 6.AUG.2015 23:18:34

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 23 of 120
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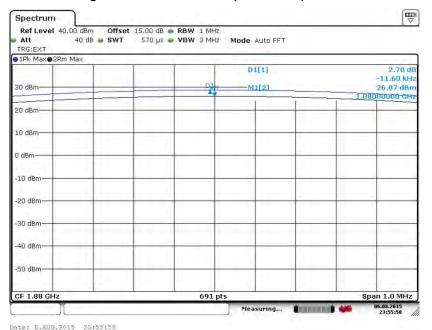
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 6.AUG.2015 23:55:25

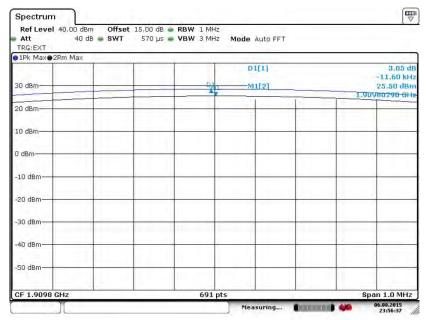
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



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

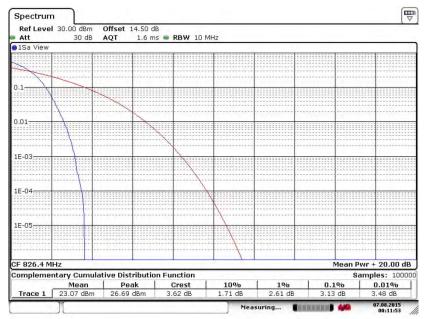


Date: 6.AUG.2015 23:56:37

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 25 of 120
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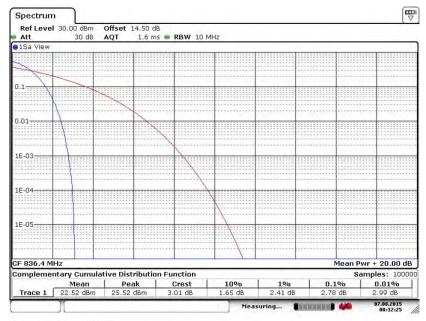
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

Peak-to-Average Ratio on Channel 4132 (826.4 MHz)



Date: 7.AUG.2015 00:11:53

Peak-to-Average Ratio on Channel 4182 (836.4 MHz)



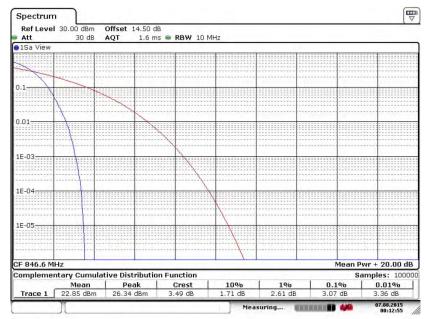
Date: 7.AUG.2015 00:12:25

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 26 of 120 Report Issued Date : Aug. 25, 2015

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Peak-to-Average Ratio on Channel 4233 (846.6 MHz)



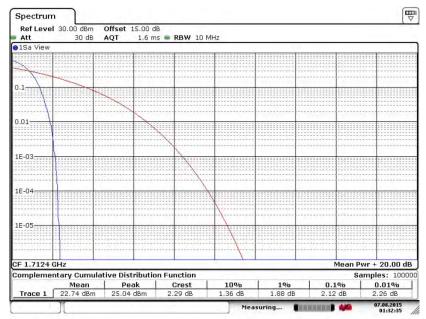
Date: 7.AUG.2015 00:12:55

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 27 of 120
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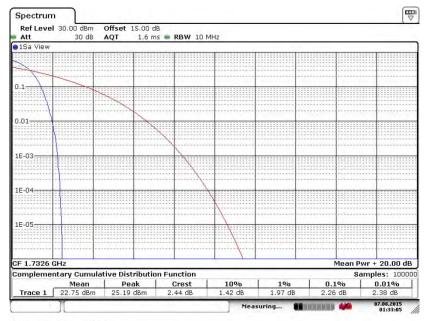
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

Peak-to-Average Ratio on Channel 1312 (1712.4 MHz)



Date: 7.AUG.2015 01:32:35

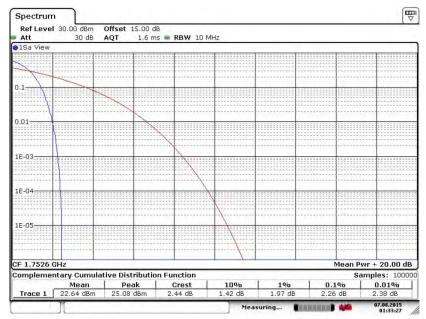
Peak-to-Average Ratio on Channel 1413 (1732.6 MHz)



Date: 7.AUG.2015 01:33:05

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 28 of 120
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Peak-to-Average Ratio on Channel 1513 (1752.6 MHz)



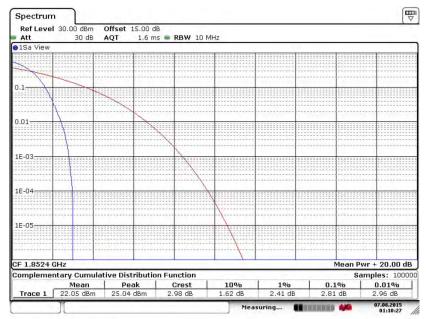
Date: 7.AUG.2015 01:33:27

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 29 of 120
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CC RF Test Report No. : FG572303

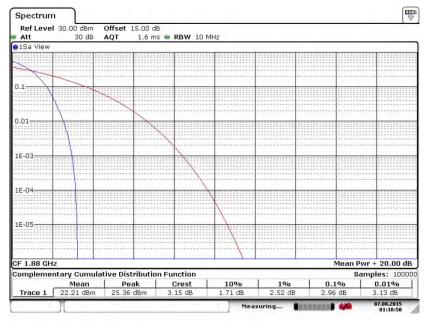
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 7.AUG.2015 01:10:27

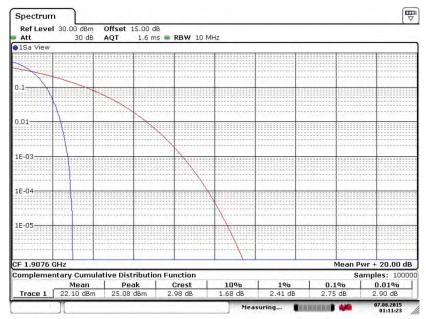
Peak-to-Average Ratio on Channel 9400 (1880.0 MHz)



Date: 7.AUG.2015 01:10:50

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 30 of 120
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Peak-to-Average Ratio on Channel 9538 (1907.6 MHz)



Date: 7.AUG.2015 01:11:23

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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 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).

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

- The testing follows FCC KDB 971168 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-C-2004 Section 2.2.17.
- 2. The EUT was placed on a non-conductive rotating platform 0.8 meters high 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-C. 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.

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	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

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3.3.4 Test Result of ERP

GSM850 (GSM) Radiated Power ERP									
Channel	Frequency	Horiz	ontal	Vertical					
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)				
Lowest	824.2	26.30	0.4266	17.87	0.0612				
Middle	836.4	26.21	0.4178	18.37	0.0687				
Highest	848.8	25.73	0.3741	18.41	0.0693				
Limit	ERP < 7W	Re	sult	PASS					

	GSM850 (EDGE class 8) Radiated Power ERP									
Channel	Frequency	Horiz	ontal	Vertical						
	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)					
Lowest	824.2	19.90	0.0977	11.60	0.0145					
Middle	836.4	19.95	0.0989	12.51	0.0178					
Highest	848.8	20.44	0.1107	13.13	0.0206					
Limit	ERP < 7W	Res	sult	PA	SS					

	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP									
Channel	Frequency	Horiz	ontal	Vertical						
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)					
Lowest	826.4	16.37	0.0434	8.49	0.0071					
Middle	836.4	16.25	0.0422	8.68	0.0074					
Highest	846.6	16.17	0.0414	9.13	0.0082					
Limit	ERP < 7W	Res	sult	PASS						

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3.3.5 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP					
Channel	Frequency	Horiz	ontal	Vertical	
	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	1850.2	29.19	0.8299	29.40	0.8710
Middle	1880.0	29.09	0.8110	29.24	0.8395
Highest	1909.8	30.46	1.1117	30.49	1.1194
Limit	EIRP < 2W	Result		PASS	

GSM1900 (EDGE class 8) Radiated Power EIRP						
Channel	Frequency	Horizontal		Vertical		
	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	1850.2	23.96	0.2489	24.49	0.2812	
Middle	1880.0	24.60	0.2884	24.78	0.3006	
Highest	1909.8	26.18	0.4150	26.24	0.4207	
Limit	EIRP < 2W	Result		PASS		

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP					
Channel	Frequency	Horizontal		Vertical	
	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	1852.4	20.65	0.1161	21.35	0.1365
Middle	1880.0	21.53	0.1422	21.67	0.1469
Highest	1907.6	23.31	0.2143	23.13	0.2056
Limit	EIRP < 2W	Result		PASS	

WCDMA Band IV(RMC 12.2Kbps) Radiated Power EIRP					
Channel	Frequency	Horizontal		Vertical	
	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	1712.4	17.94	0.0622	19.97	0.0993
Middle	1732.6	19.07	0.0807	19.06	0.0805
Highest	1752.6	20.88	0.1225	20.63	0.1156
Limit	EIRP < 1W	Result		PASS	

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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

- 5. The testing follows FCC KDB 971168 v02r02 Section 4.2.
- 6. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 7. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 8. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, peak detector, trace maximum hold.
- 9. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

3.4.4 Test Setup



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3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band						
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)		
Channel	128 189 251 (Low) (Mid) (High)		128 (Low)	189 (Mid)	251 (High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8
99% OBW (kHz)	243.13	246.02	244.57	244.57	244.57	243.13
26dB BW (kHz)	318.40	318.40	318.40	298.10	309.70	298.10

PCS Band						
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)		
Channel	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)	244.57	246.02	243.13	243.13	243.13	240.23
26dB BW (kHz)	319.80	318.40	318.40	308.20	309.70	309.70

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)	4.17	4.15	4.15	
26dB BW (MHz)	4.69	4.69	4.69	

AWS Band				
Modes	WCDMA Band IV (RMC 12.2Kbps)			
Channel	1312(Low) 1413 (Mid) 1513 (High)			
Frequency (MHz)	1712.4 1732.6 1752.6			
99% OBW (MHz)	4.20	4.18	4.17	
26dB BW (MHz)	4.75	4.73	4.75	

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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)	4.17	4.15	4.15	
26dB BW (MHz)	4.69	4.69	4.69	

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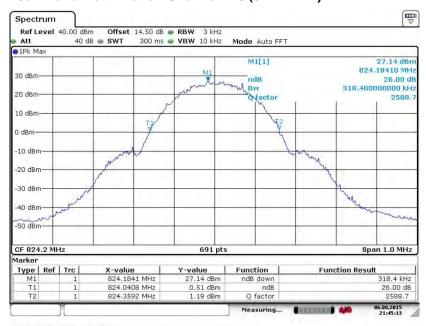
3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

Band: GSM 850 Test Mode: GSM Link (GMSK)

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



26dB Bandwidth Plot on Channel 128 (824.2 MHz)



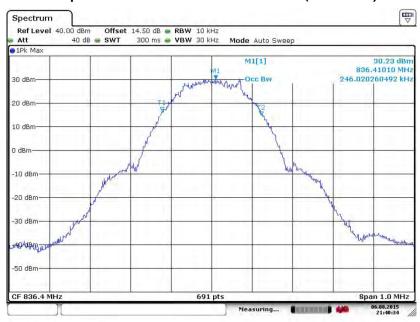
Date: 6.AUG.2015 21:45:13

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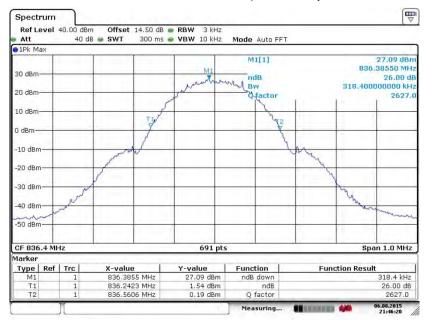
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 6.AUG.2015 21:40:34

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 6.AUG.2015 21:46:20

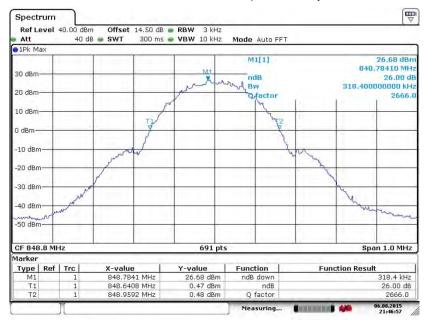
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 40 of 120 Report Issued Date: Aug. 25, 2015 Report Version : Rev. 01

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



Date: 6.AUG.2015 21:42:35

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

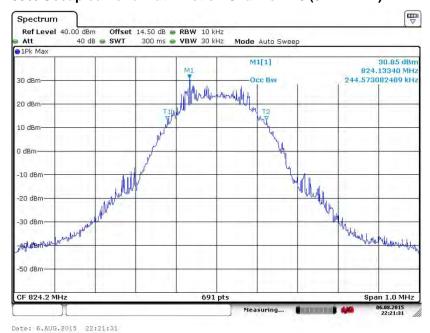


Date: 6.AUG.2015 21:46:57

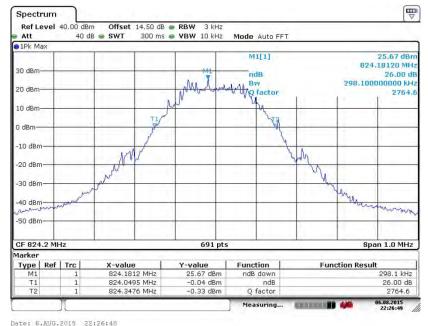
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 41 of 120
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Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



26dB Bandwidth Plot on Channel 128 (824.2 MHz)



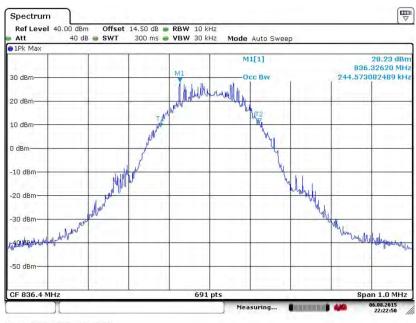
Date: 6.AUG.2015 22:26:48

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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 42 of 120 Report Issued Date : Aug. 25, 2015

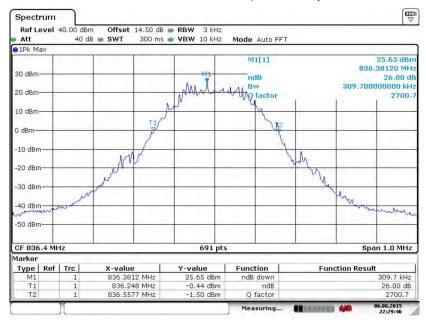
Report No. : FG572303

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



Date: 6.AUG.2015 22:22:50

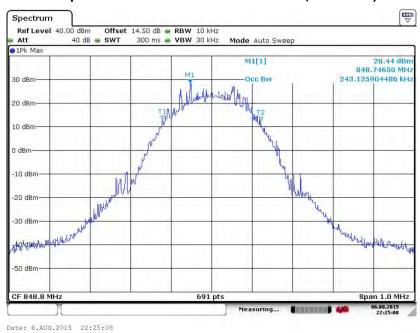
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 6.AUG.2015 22:29:46

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



Spectrum

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

7 Ref Level 40.00 dBm 40 dB . SWT Mode Auto FFT Att 1Pk Max M1[1] 25.59 dBr 848.78120 MH 30 dBm 26.00 de 298.100000000 kH ndB Bw Artor Maractor 20 dBr 2847. 10 dBm -10 dBm -20 dBm -30 dBm 40 dBm -50 dBm-CF 848.8 MHz 691 pts Span 1.0 MHz Type | Ref | Trc X-value 848.7812 MHz 848.6495 MHz 848.9476 MHz Y-value 25.59 dBm -0.27 dBm -0.05 dBm Function ndB down **Function Result**

ndB Q factor

Date: 6.AUG.2015 22:30:25

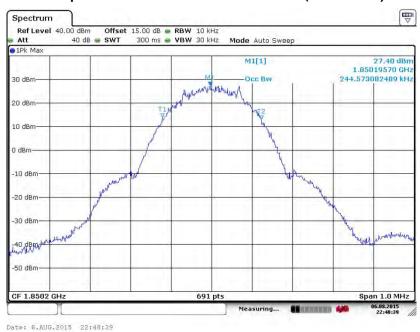
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 44 of 120 Report Issued Date: Aug. 25, 2015 Report Version : Rev. 01

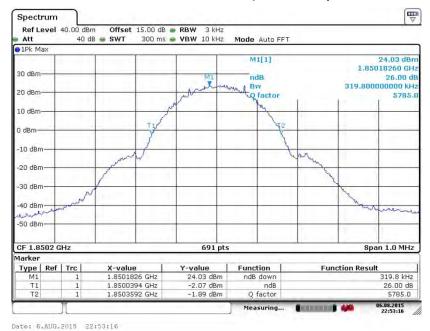
298.1 kHz 26.00 dB 2847.1

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

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



26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



SPORTON INTERNATIONAL (SHENZHEN) INC.

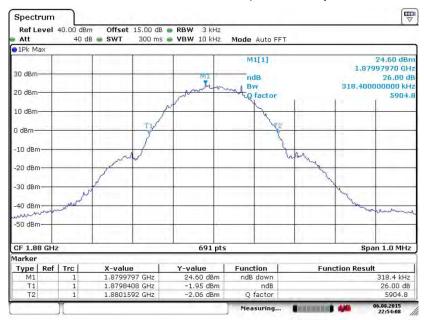
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 45 of 120
Report Issued Date : Aug. 25, 2015
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 6.AUG.2015 22:50:12

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

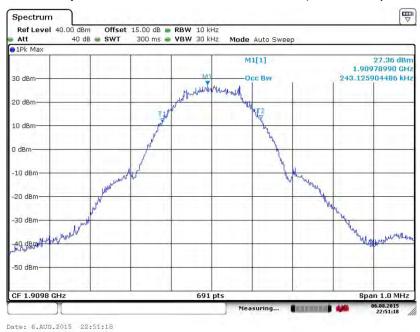


Date: 6.AUG.2015 22:54:08

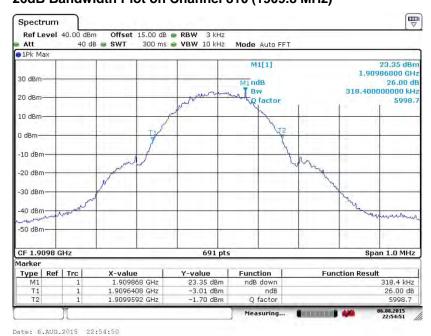
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 46 of 120 Report Issued Date: Aug. 25, 2015

Report No. : FG572303

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



26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

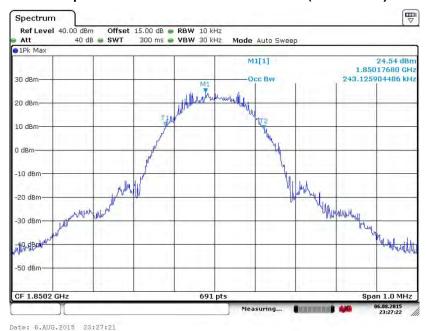


STACK CLASSICS SHELL AREALONS

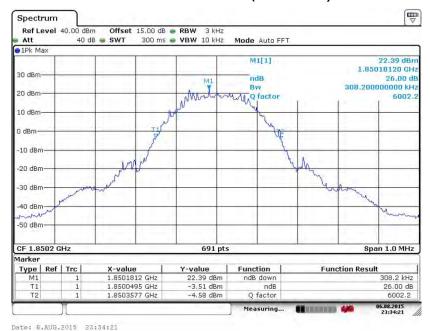
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 47 of 120
Report Issued Date : Aug. 25, 2015
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Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

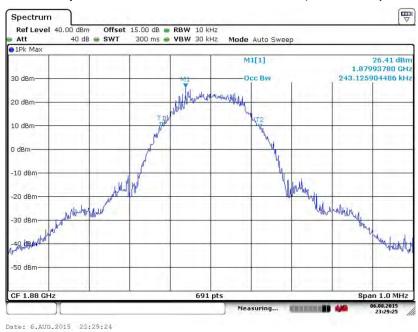


SPORTON INTERNATIONAL (SHENZHEN) INC.

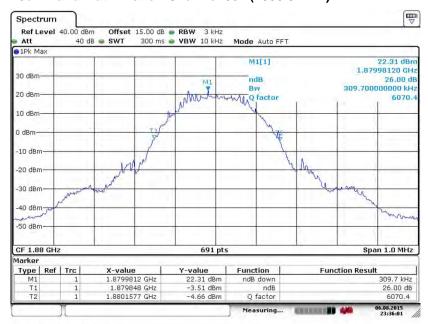
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 48 of 120 Report Issued Date : Aug. 25, 2015

Report No. : FG572303

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



26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

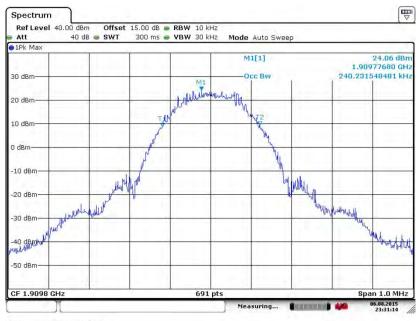


Date: 6.AUG.2015 23:36:01

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 49 of 120 Report Issued Date: Aug. 25, 2015

Report No. : FG572303

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



Date: 6.AUG.2015 23:31:14

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

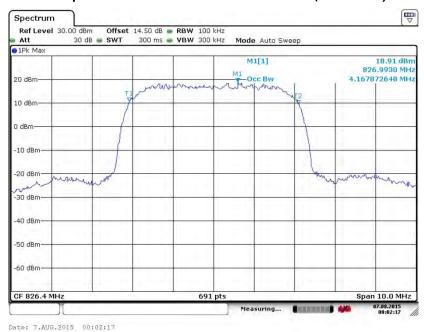


Date: 6.AUG.2015 23:37:02

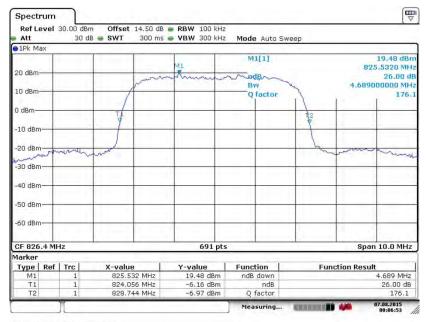
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 50 of 120
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Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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



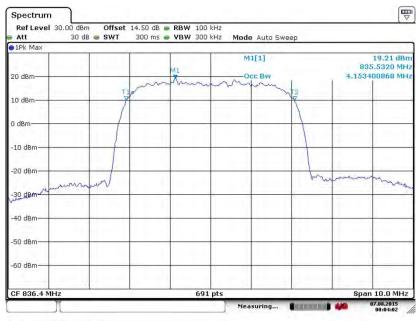
26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 7.AUG.2015 00:06:53

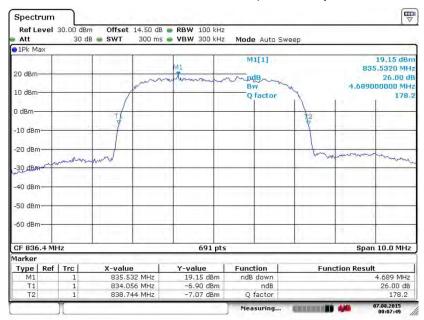
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 51 of 120
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99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 7.AUG.2015 00:04:02

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)

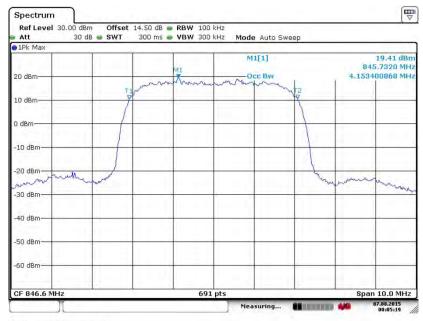


Date: 7.AUG.2015 00:07:49

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 52 of 120
Report Issued Date : Aug. 25, 2015

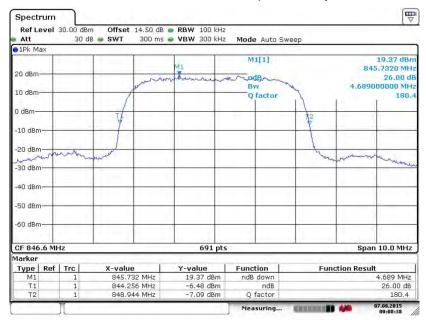
Report No. : FG572303

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



Date: 7.AUG.2015 00:05:18

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



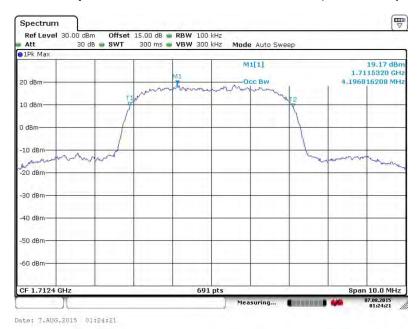
Date: 7.AUG.2015 00:08:38

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 53 of 120
Report Issued Date : Aug. 25, 2015

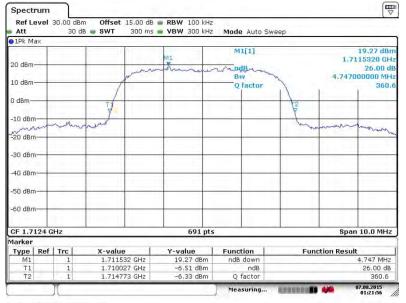
Report No. : FG572303

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

99% Occupied Bandwidth Plot on Channel 1312 (1712.4 MHz)



26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)

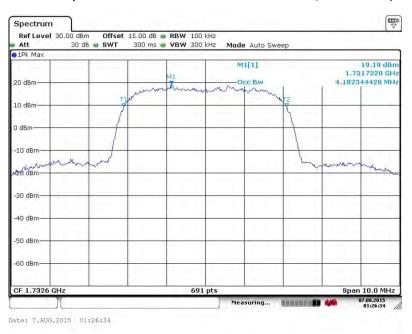


Date: 7.AUG.2015 01:21:56

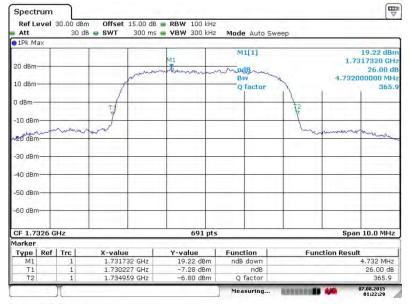
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 54 of 120
Report Issued Date : Aug. 25, 2015

Report No. : FG572303

99% Occupied Bandwidth Plot on Channel 1413 (1732.6 MHz)



26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)

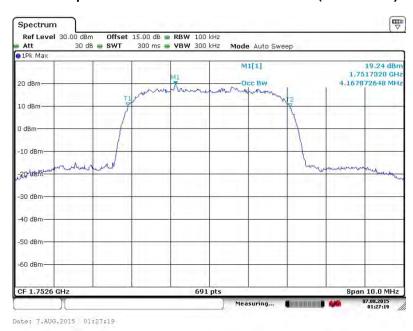


Date: 7.AUG.2015 01:22:29

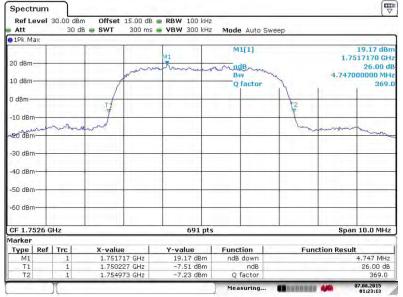
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 55 of 120 Report Issued Date: Aug. 25, 2015

Report No. : FG572303

99% Occupied Bandwidth Plot on Channel 1513 (1752.6 MHz)



26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)



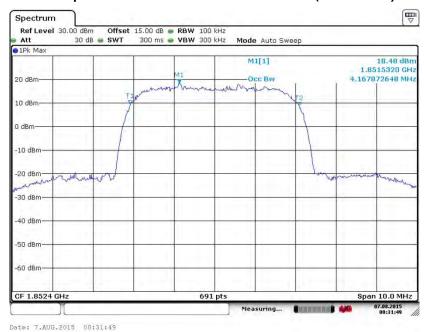
Date: 7.AUG.2015 01:23:13

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 56 of 120 Report Issued Date: Aug. 25, 2015

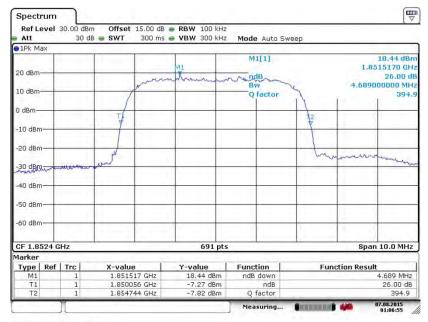
Report No. : FG572303

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

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



26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)

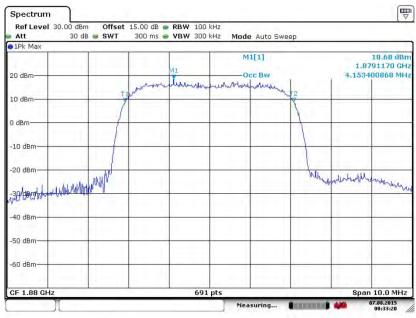


Date: 7.AUG.2015 01:06:55

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 57 of 120 Report Issued Date : Aug. 25, 2015

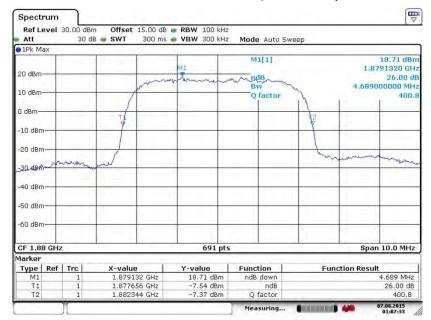
Report No. : FG572303

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



Date: 7.AUG.2015 00:33:19

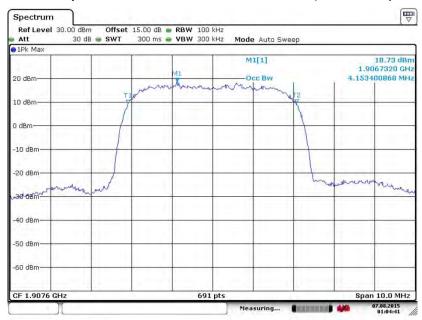
26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 7.AUG.2015 01:07:33

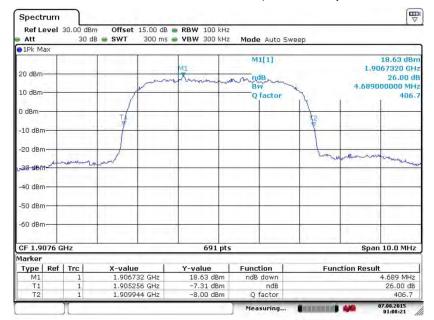
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 58 of 120
Report Issued Date : Aug. 25, 2015
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99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 7.AUG.2015 01:04:41

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 7.AUG.2015 01:08:21

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 59 of 120
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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

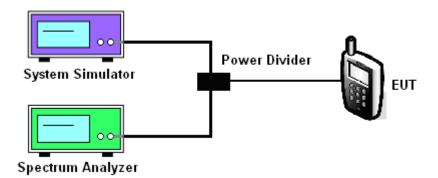
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

- 1. The testing follows FCC KDB 971168 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 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.5.4 Test Setup

<Conducted Band Edge >



SPORTON INTERNATIONAL (SHENZHEN) INC.

FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE

TEL: 86-755-8637-9589

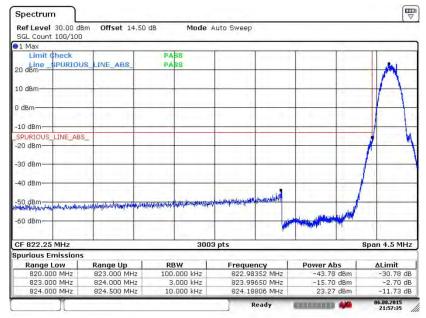
Page Number : 60 of 120 Report Issued Date : Aug. 25, 2015

Report No.: FG572303

3.5.5 Test Result (Plots) of Conducted Band Edge

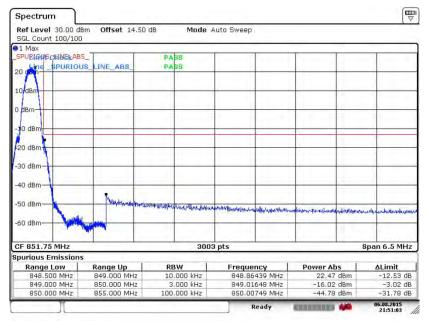
Band: GSM850 Test Mode: GSM Link (GMSK)

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 6.AUG.2015 21:57:35

Higher Band Edge Plot on Channel 251 (848.8 MHz)



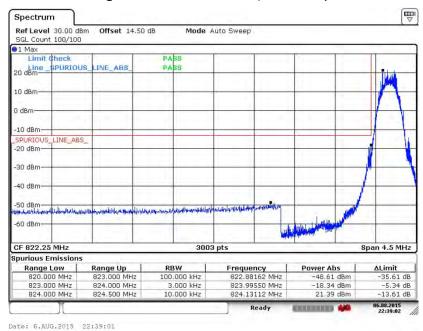
Date: 6.AUG.2015 21:51:03

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 61 of 120 Report Issued Date: Aug. 25, 2015

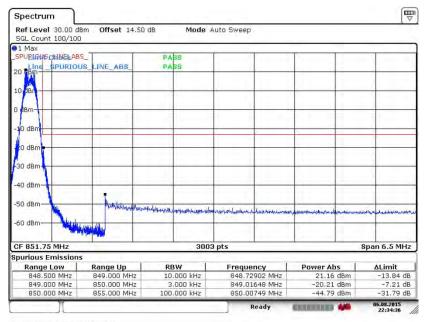
Report No. : FG572303

Band: GSM850 Test Mode: EDGE class 8 Link (8PSK)

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Higher Band Edge Plot on Channel 251 (848.8 MHz)



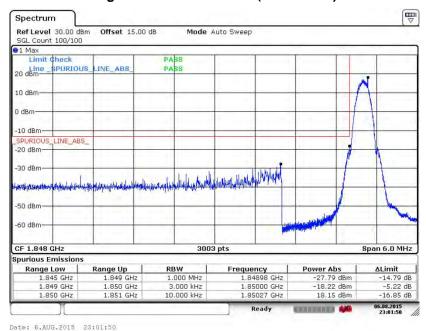
Date: 6.AUG.2015 22:34:36

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 62 of 120
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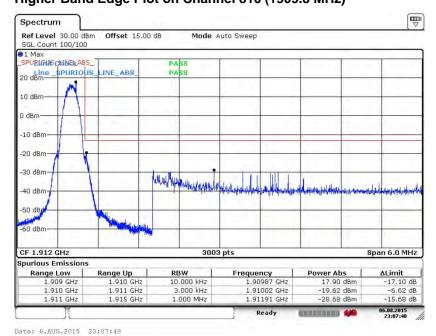
Report No. : FG572303

Band: GSM1900 Test Mode: GSM Link (GMSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Higher Band Edge Plot on Channel 810 (1909.8 MHz)



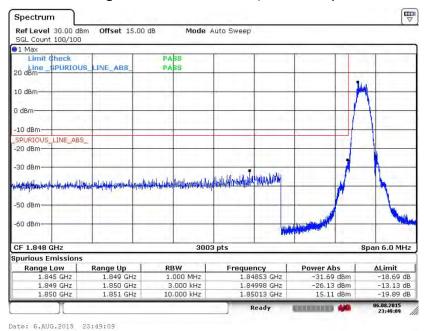
Date: 6.AUG.2015 23:07:4

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 63 of 120 Report Issued Date : Aug. 25, 2015

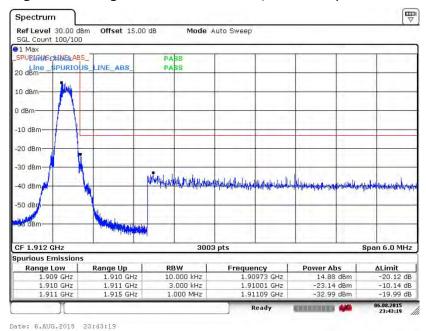
Report No. : FG572303

Band: GSM1900 Test Mode: EDGE class 8 Link (8PSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Higher Band Edge Plot on Channel 810 (1909.8 MHz)



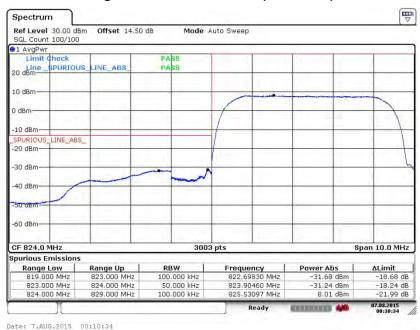
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 64 of 120
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Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Higher Band Edge Plot on Channel 4233 (846.6 MHz)



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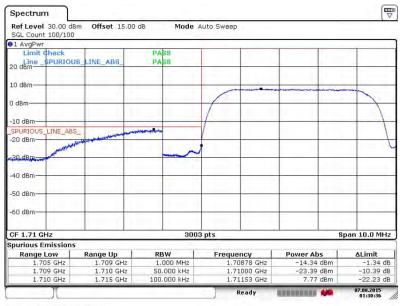
: Rev. 01

Report Issued Date: Aug. 25, 2015

Date: 7.AUG.2015 00:09:39

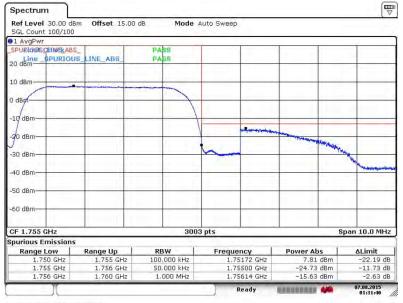
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 1312 (1712.4 MHz)



Date: 7.AUG.2015 01:30:36

Higher Band Edge Plot on Channel 1513 (1752.6 MHz)



Date: 7.AUG.2015 01:31:40

SPORTON INTERNATIONAL (SHENZHEN) INC.

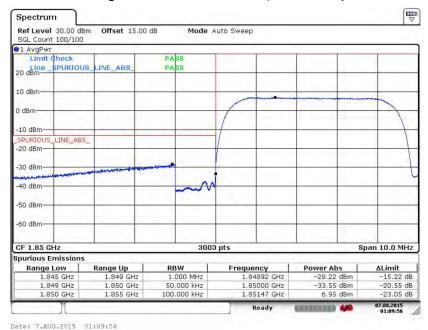
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 66 of 120 Report Issued Date : Aug. 25, 2015

Report No. : FG572303

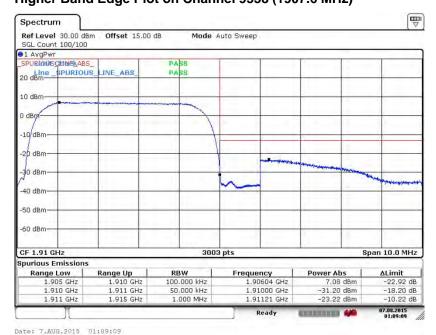
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

Report No. : FG572303

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



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Date: 7.AUG.2015 01:09:09

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

3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

- 1. The testing follows FCC KDB 971168 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.
- The conducted spurious emission for the whole frequency range was taken. 5.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts) 7.
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.6.4 Test Setup



SPORTON INTERNATIONAL (SHENZHEN) INC.

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

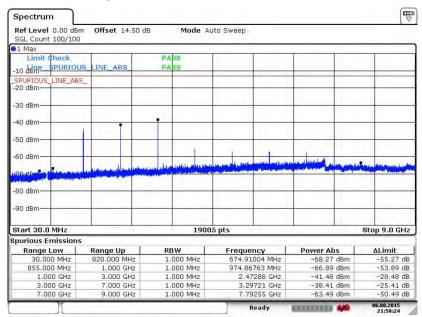
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

Band :	GSM850	Channel:	CH128
Test Mode :	GSM Link (GMSK)	Frequency:	824.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 9GHz

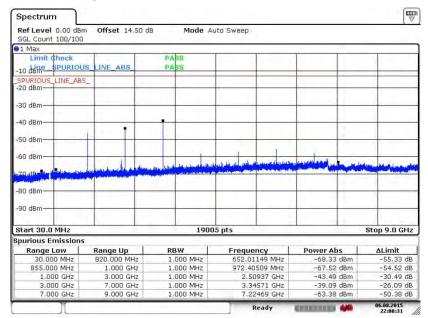


Date: 6.AUG.2015 21:59:24

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 69 of 120
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Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 9GHz

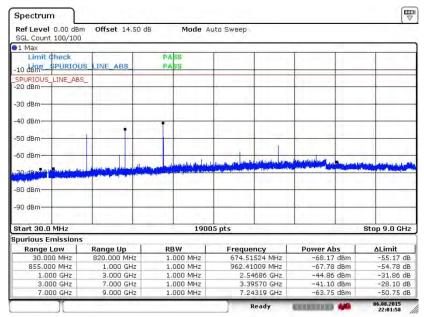


Date: 6.AUG.2015 22:00:31

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 70 of 120
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Band :	GSM850	Channel:	CH 251
Test Mode :	GSM Link (GMSK)	Frequency:	848.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 9GHz

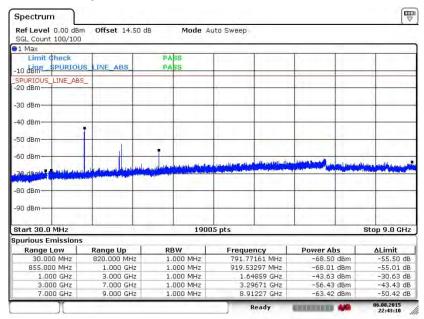


Date: 6.AUG.2015 22:01:58

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 71 of 120
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Band :	GSM850	Channel:	CH128
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	824.2 MHz

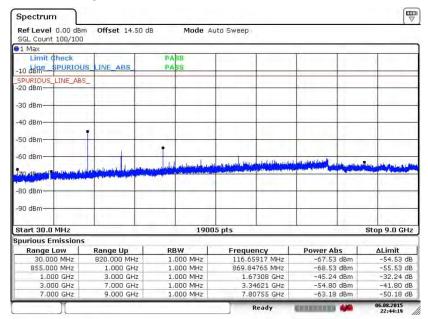
Conducted Spurious Emission Plot between 30MHz ~ 9GHz



Date: 6.AUG.2015 22:43:10

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 72 of 120
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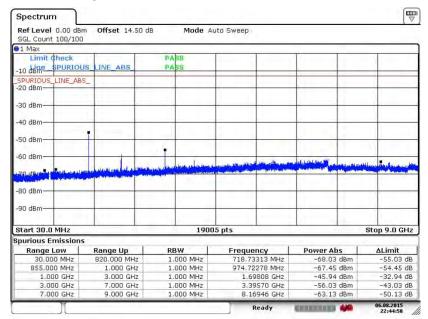
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz



Date: 6.AUG.2015 22:44:19

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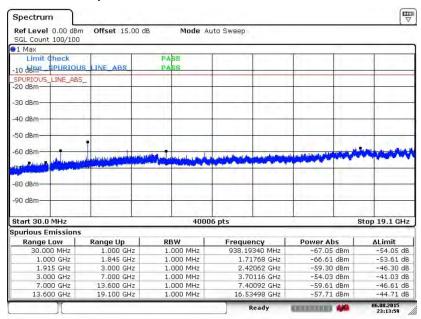
Band :	GSM850	Channel:	CH251
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	848.8 MHz



Date: 6.AUG.2015 22:44:58

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 74 of 120
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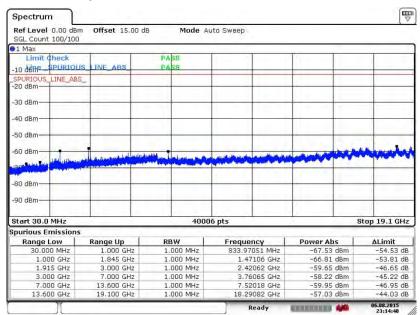
Band :	GSM1900	Channel:	CH512
Test Mode :	GSM Link (GMSK)	Frequency:	1850.2 MHz



Date: 6.AUG.2015 23:13:58

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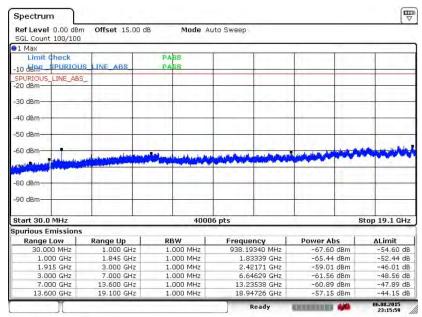
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz



Date: 6.AUG.2015 23:14:40

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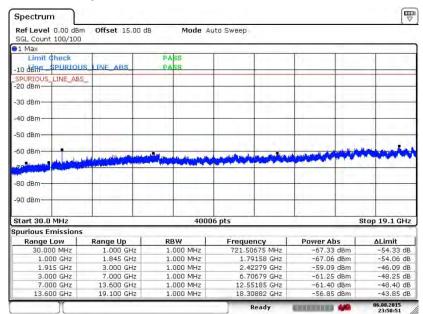
Band :	GSM1900	Channel:	CH810
Test Mode :	GSM Link (GMSK)	Frequency:	1909.8 MHz



Date: 6.AUG.2015 23:15:59

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 77 of 120
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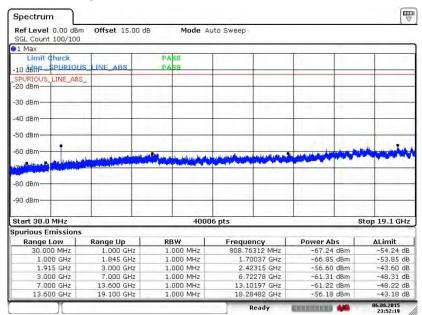
Band :	GSM1900	Channel:	CH512
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1850.2 MHz



Date: 6.AUG.2015 23:50:51

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE Page Number : 78 of 120
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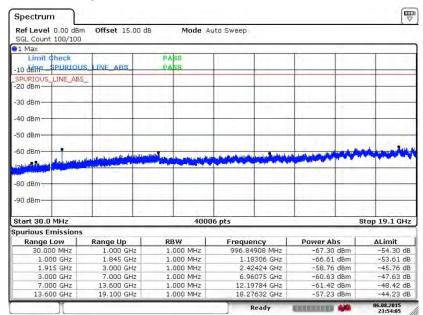
Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz



Date: 6.AUG.2015 23:52:18

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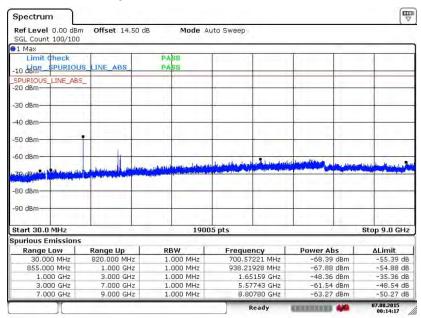
Band :	GSM1900	Channel:	CH810
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1909.8 MHz



Date: 6.AUG.2015 23:54:05

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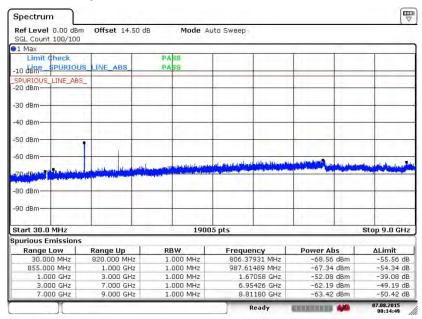
Band :	WCDMA Band V	Channel:	CH4132
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	826.4 MHz



Date: 7.AUG.2015 00:14:17

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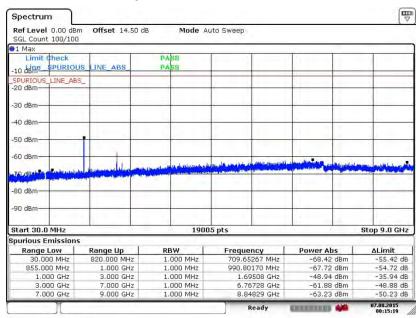
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz



Date: 7.AUG.2015 00:14:49

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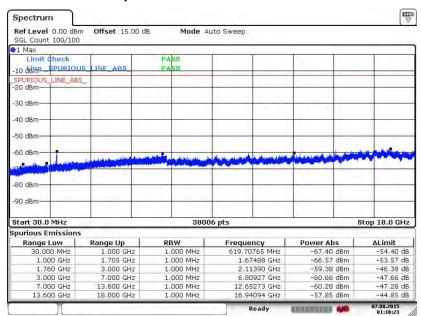
Band :	WCDMA Band V	Channel:	CH4233
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	846.6 MHz



Date: 7.AUG.2015 00:15:18

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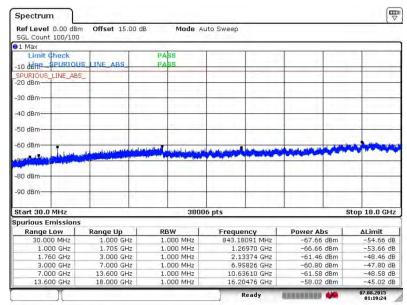
Band :	WCDMA Band IV	Channel:	CH1312
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1712.4 MHz



Date: 7.AUG.2015 01:18:23

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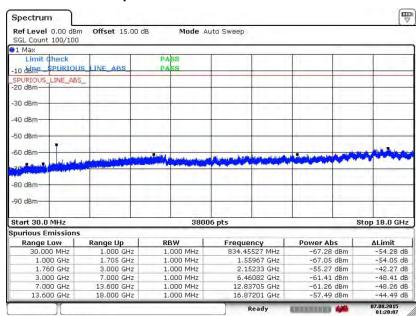
Band :	WCDMA Band IV	Channel:	CH1413
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1732.6 MHz



Date: 7.AUG.2015 01:19:23

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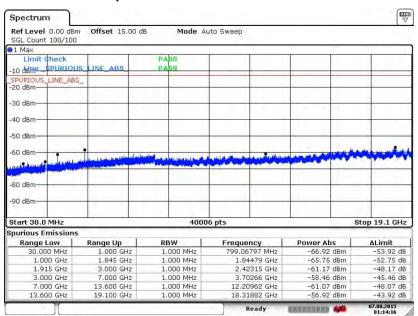
Band :	WCDMA Band IV	Channel:	CH1513
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1752.6 MHz



Date: 7.AUG.2015 01:20:07

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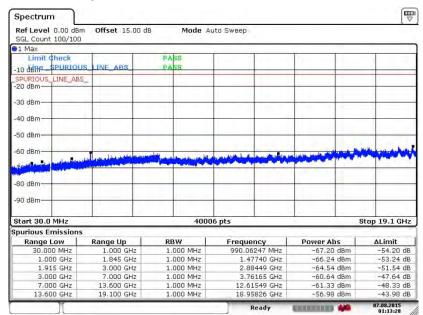
Band :	WCDMA Band II	Channel:	CH9262
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1852.4MHz



Date: 7.AUG.2015 01:14:16

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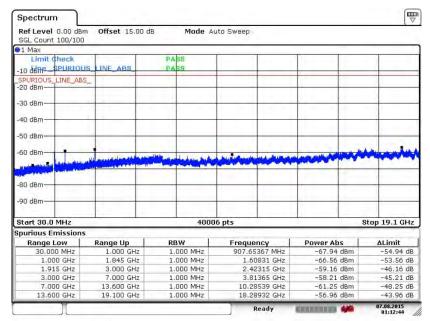
Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz



Date: 7.AUG.2015 01:13:28

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Band :	WCDMA Band II	Channel:	CH9538
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1907.6 MHz



Date: 7.AUG.2015 01:12:44

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3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
- 2. The EUT was placed on a rotatable wooden table 0.8 meters 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.

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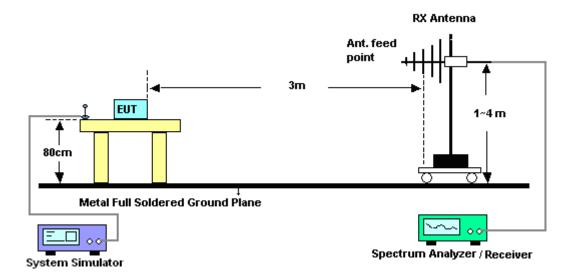
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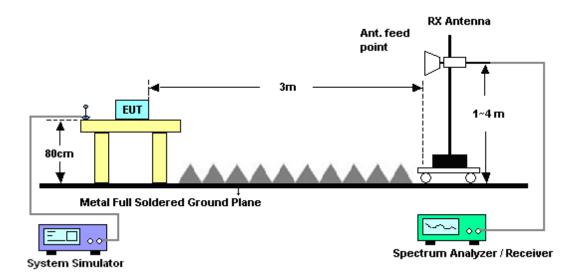
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.7.4 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 for CH128					Temperature	23~25°C			
Test Mode :		GSM	Link (GMSK)			Relative Hum	nidity :	48~52%		
Test Engine	er:	Sam	Li				Polarization	Horizontal			
Remark :		Spuri	ious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	ER	P I	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1648.4	-23.8	88	-13	-10.88	-29.05	-27.70	0.53	6.5	0	Н	Pass
2472.6	-34.2	27	-13	-21.27	-41.70	-37.14	0.68	5.7	0	Н	Pass
3296.8	-35.	70	-13	-22.70	-47.70	-40.74	0.81	8.0	0	Н	Pass

Band :		GSM850 f	or CH128	3		Temperature : 23~			~25°C		
Test Mode :		GSM Link	(GMSK)			Relative Humidity: 48			18~52%		
Test Engine	er:	Sam Li				Polarization : Ve			cal		
Remark :		Spurious e	missions	1000MHz	were found m	nore tha	n 20d	IB below limi	it line.		
Frequency	ER	P Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBı	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1648.4	-23.	18 -13	-10.18	-29.69	-27.00	0.53	6.5	50	V	Pass	
2472.6	-35.	18 -13	-22.18	-42.78	-38.05	0.68	5.7	0	V	Pass	
3296.8	-35.	12 -13	-22.12	-47.52	-40.16	0.81	8.0	00	V	Pass	

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Band :		GSM850 fo	or CH189			Temperature	23~25°C			
Test Mode :		GSM Link	(GMSK)			Relative Hun	48~52%			
Test Engine	er:	Sam Li				Polarization	:	Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	1000MHz	were found n	nore tha	n 20d	B below lim	it line.
Frequency	ERF	Limit	Limit Over SPA S.G.			TX Cable	tenna Polarization Resu			
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-22.9	9 -13	-9.99	-28.16	-26.81	0.53	6.5	0	Н	Pass
2510	-31.2	7 -13	-18.27	-39.17	-34.14	0.68	5.7	0	Н	Pass
3346	-34.2	9 -13	-21.29	-46.48	-39.33	0.81	8.0	0	Н	Pass

Band :		GSM	1850 foi	· CH189			Temperature	23~25°C				
Test Mode :		GSN	1 Link (0	GMSK)			Relative Hun	48~52%				
Test Engine	er:	Sam	Li				Polarization	:	Vertio	Vertical		
Remark :		Spur	rious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	IB below limi	t line.	
Frequency	ERI	Р	Limit	Over	SPA	S.G.	TX Cable	enna	Polarization	Result		
				Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1672	-22.8	35	-13	-9.85	-29.31	-26.67	0.53	6.5	0	V	Pass	
2510	-34.0	05	-13	-21.05	-41.65	-36.92	0.68	5.7	0	V	Pass	
3346	-34.9	90	-13	-21.90	-47.33	-39.94	0.81	8.0	0	V	Pass	

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Band :		GSM850 fc	r CH251			Temperature	:	23~25°C			
Test Mode :		GSM Link (SM Link (GMSK) Relative Humidity: 4					48~5	48~52%		
Test Engine	er:	Sam Li	am Li Polarization :					Horizontal			
Remark :		Spurious e	missions	1000MHz	were found n	nore tha	n 20d	B below limi	it line.		
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1697.6	-27.6	3 -13	-14.63	-32.70	-31.45	0.53	6.5	0	Н	Pass	
2546.4	-34.2	7 -13	-21.27	-41.71	-37.14	0.68	5.7	0	Н	Pass	
3395.2	-41.5	2 -13	-28.52	-52.92	-46.56	0.81	8.0	0	Н	Pass	

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Band :	•	GSM850 fo	r CH251			Temperature	•	23~2	23~25°C		
Test Mode :		GSM Link (GMSK)			Relative Humidity :			48~52%		
Test Engine	er:	Sam Li				Polarization	:	Vertic	cal		
Remark:	,	Spurious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limi	t line.	
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1697.6	-27.1	9 -13	-14.19	-33.75	-31.01	0.53	6.5	0	V	Pass	
2546.4	-35.2	.6 -13	-22.26	-42.86	-38.13	0.68	5.7	0	V	Pass	
3395.2	-38.8	2 -13	-25.82	-50.74	-43.86	0.81	8.0	0	V	Pass	

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Band :	C	SM850 fo	r CH128			Temperature : 23~25°C				
Test Mode :	: E	DGE class	s 8 Link ((8PSK)		Relative Humidity: 48~52%				
Test Engine	eer : S	Sam Li				Polarization : Horizontal				
Remark :	5	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dE	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna F	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1648.4	-29.5	3 -13	-16.53	-34.63	-33.35	0.53	6.5	0	Н	Pass
2472.6	-37.0	1 -13	-24.01	-44.56	-39.88	0.68	5.7	0	Н	Pass
3296.8	-40.2	7 -13	-27.27	-51.93	-45.31	0.81	8.0	0	Н	Pass

Band :		GSM850 for	r CH128			Temperature	:	23~2	5°C	
Test Mode	:	EDGE class	8 Link ((8PSK)		Relative Hum	idity:	48~5	2%	
Test Engine	eer:	Sam Li				Polarization :	:	Vertic	al	
Remark :		Spurious en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1648.4	-29.6	65 -13	-16.65	-36.17	-33.47	0.53	6.5	0	V	Pass
2472.6	-41.0	03 -13 -28.03 -48.07 -43.				0.68	5.7	0	V	Pass
3296.8	-38.9	95 -13	-25.95	-50.90	-43.99	0.81	8.0	0	V	Pass

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Band :	(GSM850 fo	r CH189			Temperature	:	23~2	5°C	
Test Mode	: E	EDGE class	8 Link ((8PSK)		Relative Hun	nidity:	48~52	2%	
Test Engine	eer :	Sam Li				Polarization		Horiz	ontal	
Remark :	9	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1672	-27.8	8 -13	-14.88	-32.96	-31.70	0.53	6.5	0	Н	Pass
2510	-34.1	8 -13	-21.18	-41.58	-37.05	0.68	5.7	0	Н	Pass
3346	-36.6	7 -13	-23.67	-48.65	-41.71	0.81	8.0	0	Н	Pass

Band :		GSM850 fo	r CH189			Temperature	:	23~2	5°C	
Test Mode	:	EDGE class	8 Link ((8PSK)		Relative Hum	idity:	48~5	2%	
Test Engine	eer:	Sam Li				Polarization :	:	Vertic	al	
Remark :		Spurious en	nissions	within 30-1	000MHz	were found m	ore thai	า 20d	B below limit	line.
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1672	-27.2	27 -13	-14.27	-33.82	-31.09	0.53	6.5	0	V	Pass
2510	-38.8	88 -13 -25.88 -46.17 -41				0.68	5.7	0	V	Pass
3346	-35.7	77 -13	-22.77	-48.05	-40.81	0.81	8.0	0	V	Pass

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Band :	G	SM850 fo	r CH251			Temperature	:	23~25	5°C	
Test Mode :	E	DGE class	8 Link ((8PSK)		Relative Hum	idity:	48~52	2%	
Test Engine	eer: S	Sam Li				Polarization		Horizo	ontal	
Remark :	S	purious er	nissions	within 30-1	1000MHz	were found m	ore tha	n 20dl	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1697.6	-30.73	-13	-17.73	-35.78	-34.55	0.53	6.5	0	Н	Pass
2546.4	-37.65	-13	-24.65	-45.10	-40.52	0.68	5.7	0	Н	Pass
3395.2	-39.16	-13	-26.16	-50.97	-44.20	0.81	8.0	0	Н	Pass

Band :	G	SM850 fo	r CH251			Temperature	:	23~25	°C	
Test Mode	: E	OGE class	8 Link	(8PSK)		Relative Hum	nidity:	48~52	2%	
Test Engine	eer : Sa	am Li				Polarization	:	Vertica	al	
Remark :	Sp	ourious emissions within 30-1000N				were found m	ore tha	n 20dE	3 below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1697.6	-31.08	-13	-18.08	-37.59	-34.90	0.53	6.5	0	V	Pass
2546.4	-37.87	-13	-24.87	-45.22	-40.74	0.68	5.7	0	V	Pass
		7 -13 -24.87 -45.22 -40 9 -13 -25.69 -50.59 -40								

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Band :		GSI	M1900 f	or CH51	2		Temperature	Relative Humidity: 48~52% Polarization: Horizontal were found more than 20dB below TX Cable TX Antenna Polariz loss Gain			
Test Mode :		GSI	M Link (GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er:	San	n Li				Polarization	:	Horiz	ontal	
Remark :		Spu	ırious en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3700.4	-24.0	67	-13	-11.67	-37.64	-36.40	0.87	12.	60	Н	Pass
5550.6	-36.0	06	-13	-23.06	-52.85	-48.09	1.07	13.	10	Н	Pass
7400.8	-44.7	75	-13	-31.75	-63.07	-54.36	1.69	11.3	30	Н	Pass

Band :		GSM190	0 for CH5	12		Temperature	:	23~2	5°C	
Test Mode :		GSM Lin	k (GMSK)			Relative Hun	nidity :	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Vertio	cal	
Remark :		Spurious	emissions	within 30-	1000MHz	were found n	nore tha	n 20d	IB below limi	it line.
Frequency	EIR	P Limi	t Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBn	n) (dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3700.4	-23.7	73 -13	-10.73	-38.77	-35.46	0.87	12	6	V	Pass
5550.6	-32.	15 -13	-19.15	-50.26	-44.18	1.07	13	1	V	Pass
7400.8	-43.5	57 -13	-30.57	-61.79	-53.18	1.69	11.	3	V	Pass

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Band :		GSM1900	for CH66	1		Temperature	:	23~2	5°C	
Test Mode :		GSM Link	(GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Horiz	ontal	
Remark :	;	Spurious e	missions	within 30-1	1000MHz	were found n	nore tha	n 20d	B below limi	it line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-54.5	4 -13	-41.54	-65.79	-66.27	0.87	12.	60	Н	Pass
5640	-51.2	.6 -13	-38.26	-67.14	-63.29	1.07	13.	10	Н	Pass
7520	-48.6	9 -13	-35.69	-67.01	-58.30	1.69	11.3	30	Н	Pass

Band :		GSM1	1900 f	or CH66	1		Temperature	:	23~25°C		
Test Mode :		GSM I	Link (GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er :	Sam L	_i				Polarization	:	Vertic	al	
Remark :		Spurio	ous en	nissions	within 30-1	1000MHz	were found m	nore tha	n 20d	B below limi	t line.
Frequency	EIR	P L	imit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (d	IBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-52.8	89 -	-13	-39.89	-65.36	-64.62	0.87	12	.6	V	Pass
5640	-50.6	63 ·	-13	-37.63	-66.95	-62.66	1.07	13	.1	V	Pass
7520	-49.	73 ·	-13	-36.73	-67.95	-59.34	1.69	11.	3	V	Pass

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Band :	G	SM1900 f	or CH81	0		Temperature	:	23~2	5°C	
Test Mode :	G	SM Link (GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er: S	am Li				Polarization		Horiz	ontal	
Remark :	S	ourious emissions within 30-1000N				were found m	ore tha	n 20d	B below limi	t line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3819.6	-33.13	-13	-20.13	-45.59	-44.86	0.87	12.0	30	Н	Pass
5729.4	-40.17	· -13	-27.17	-56.05	-52.20	1.07	13.	10	Н	Pass
7639.2	-45.08	-13	-32.08	-63.40	-54.69	1.69	11.3	30	Н	Pass

Band :		GSM1900) for CH81	0		Temperature	:	23~25°C		
Test Mode :		GSM Link	(GMSK)			Relative Hur	nidity :	48~5	2%	
Test Engine	er :	Sam Li				Polarization	:	Vertic	cal	
Remark :		Spurious	emissions	within 30-	1000MHz	were found n	nore tha	n 20d	B below limi	it line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm) (dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3819.6	-29.5	51 -13	-16.51	-44.09	-41.24	0.87	12	.6	V	Pass
5729.4	-40.3	30 -13	-27.30	-56.62	-52.33	1.07	13	.1	V	Pass
7639.2	-44.7	79 -13	-31.79	-63.01	-54.40	1.69	11.	3	V	Pass

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Band :	G	SM1900 f	or CH51	2		Temperature	:	23~25°(С	
Test Mode	: E	DGE class	8 Link ((8PSK)		Relative Hum	nidity:	48~52%	6	
Test Engine	eer : S	Sam Li				Polarization :	:	Horizon	ntal	
Remark :	S	Spurious emissions within 30-1000				were found m	ore tha	n 20dB	below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Po	olarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3700.4	-24.89	-13	-11.89	-37.87	-36.62	0.87	12.6	60	Н	Pass
5550.6	-36.17	7 -13	-23.17	-52.97	-48.20	1.07	13.1	0	Н	Pass
7400.8	-41.14					1.69	11.3	80	Н	Pass

Band :		GSM1900 f	or CH51	2		Temperature	:	23~2	5°C	
Test Mode	: 1	EDGE class	8 Link	(8PSK)		Relative Hum	idity:	48~5	2%	
Test Engine	eer :	Sam Li				Polarization :	:	Vertic	al	
Remark :	3	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3700.4	-19.9	4 -13	-6.94	-35.08	-31.67	0.87	12.	6	V	Pass
5550.6	-28.1	13 -13 -15.13 -46.74 -40			-40.16	1.07	13.	1	V	Pass
7400.8	-44.6	8 -13	-31.68	-62.9	-54.29	1.69	11.	3	V	Pass

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Band :	G	SM1900 f	or CH66	1		Temperature	:	23~2	23~25°C		
Test Mode	: E	DGE class	8 Link ((8PSK)		Relative Hum	nidity:	48~52	2%		
Test Engine	eer : S	am Li				Polarization :		Horiz	ontal		
Remark :	S	purious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Gai	n			
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)		
3760	-24.05	-13	-11.05	-36.96	-35.78	0.87	12.6	60	Н	Pass	
5640	-34.72	-13	-21.72	-51.91	-46.75	1.07	13.1	10	Н	Pass	
7520	-43.29	-13	-30.29	-61.61	-52.90	1.69	11.3	30	Н	Pass	

Band :		GSM1900 f	or CH66	1		Temperature	:	23~25°C		
Test Mode		EDGE class	8 Link ((8PSK)		Relative Hum	idity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization :	:	Vertic	al	
Remark :		Spurious en	nissions	within 30-1	000MHz	were found m	ore thai	า 20d	B below limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3760	-20.4	8 -13	-7.48	-35.57	-32.21	0.87	12.	6	V	Pass
5640	-29.4	-13	-16.40	-47.85	-41.43	1.07	13.	1	V	Pass
7520	-44.5	7 -13	-31.57	-62.79	-54.18	1.69	11.3	3	V	Pass

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Band :	G	SM1900 f	or CH81	0		Temperature	:	23~25°C		
Test Mode	: E	DGE class	8 Link ((8PSK)		Relative Hun	nidity:	48~52	2%	
Test Engine	eer : S	am Li				Polarization		Horizo	ontal	
Remark :	S	purious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dl	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3819.6	-31.08	-13	-18.08	-43.80	-42.81	0.87	12.6	60	Н	Pass
5729.4	-38.65	-13	-25.65	-55.11	-50.68	1.07	13.1	10	Н	Pass
7639.2	-43.66	-13	-30.66	-61.98	-53.27	1.69	11.3	30	Н	Pass

Band :		GSM1900 f	or CH81	0		Temperature	:	23~25°C			
Test Mode :		EDGE class	8 Link (8PSK)		Relative Hum	idity:	48~5	2%		
Test Engine	er:	Sam Li				Polarization :		Vertic	cal		
Remark :		Spurious en	nissions	000MHz	were found m	ore tha	n 20d	B below limit	line.		
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)		
3819.6	-25.2	25 -13	-12.25	-40.22	-36.98	0.87	12.	6	V	Pass	
5729.4	-31.9	97 -13	-18.97	-50.09	-44.00	1.07	13.	1	V	Pass	
7639.2	-44.8	31 -13	-31.81	-63.03	-54.42	1.69	11.	3	V	Pass	

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Band :		WCE	DMA Ba	nd V for	CH4132		Temperature	:	23~25°C		
Test Mode :		RMC	12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Sam	Li				Polarization	:	Horiz	ontal	
Remark :		Spur	ious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	ER	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBı	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1652.8	-50.9	95	-13	-37.95	-54.07	-54.77	0.53	6.5	0	Н	Pass
2479.2	-55.9	91	-13	-42.91	-61.33	-58.78	0.68	5.7	0	Н	Pass
3305.6	-54.	42	-13	-41.42	-64.44	-59.46	0.81	8.0	0	Н	Pass

Band :		WCD	DMA Ba	nd V for	CH4132		Temperature	:	23~25°C		
Test Mode :		RMC	12.2K	bps Link	(QPSK)		Relative Hum	nidity:	48~5	2%	
Test Engine	er:	Sam	Li				Polarization		Vertic	cal	
Remark :		Spur	rious emissions within 30-1000N				were found m	ore tha	n 20d	IB below limi	it line.
Frequency	ERI	P	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1652.8	-52.1	14	-13	-39.14	-55.70	-55.96	0.53	6.5	0	V	Pass
2479.2	-56.4	18	-13	-43.48	-60.80	-59.35	0.68	5.7	0	V	Pass
3305.6	-54.4	10	-13	-41.40	-63.41	-59.44	0.81	8.0	0	V	Pass

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Band :	,	WCDMA B	and V for	CH4182		Temperature	:	23~25°C			
Test Mode :		RMC 12.2k	(bps Link	(QPSK)		Relative Hun	nidity :	48~52	2%		
Test Engine	er:	Sam Li				Polarization		Horiz	Horizontal		
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below lim	it line.	
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1672	-51.8	30 -13	-38.80	-54.88	-55.62	0.53	6.5	0	Н	Pass	
2510	-57.7	'8 -13	-44.78	-63.20	-60.65	0.68	5.7	0	Н	Pass	
3346	-55.4	3 -13	-42.43	-65.45	-60.47	0.81	8.0	0	Н	Pass	

Band :		WCDMA B	and V for	· CH4182		Temperature	:	23~25°C		
Test Mode :		RMC 12.2k	(bps Link	(QPSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	er:	Sam Li				Polarization		Vertic	cal	
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-52.3	39 -13	-39.39	-55.89	-56.21	0.53	6.5	0	V	Pass
2510	-55.9	94 -13	-42.94	-60.26	-58.81	0.68	5.7	0	V	Pass
3346	-56.2	21 -13	-43.21	-65.22	-61.25	0.81	8.0	0	V	Pass

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Band :	WCDMA Ba	and V for	CH4233		Temperature	:	23~25°C		
Test Mode :	RMC 12.2K	bps Link	(QPSK)		Relative Hum	idity:	48~52	2%	
Test Engineer :	Sam Li				Polarization :		Horizo	ontal	
Remark :	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dE	3 below limi	t line.
Frequency ER	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
		Limit	Reading	Power	loss	Ga	in		
(MHz) (dBi	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1693.2 -46.	02 -13	-33.02	-50.20	-49.84	0.53	6.5	0	Н	Pass
2539.8 -55.	60 -13	-42.60	-61.02	-58.47	0.68	5.7	0	Н	Pass
3386.4 -53.	47 -13	-40.47	-63.49	-58.51	0.81	8.0	0	Н	Pass

		1								
Band :		WCDMA B	and V for	· CH4233		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2	Kbps Link	(QPSK)		Relative Hum	nidity:	48~5	2%	
Test Engine	er:	Sam Li				Polarization		Vertic	al	
Remark:		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	ER	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dB	\	(dp)	(alDura)	/ -ID \	(dD)				
	(ab	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	51)	(H/V)	
1693.2	-46.	, , ,	-33.23	-51.53	-50.05	0.53	(dE 6.5	-	<u>(H/V)</u> ∨	Pass
· · · · · ·	•	23 -13		, ,			•	0	(H/V)	Pass Pass

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Band :		WCDMA B	and IV fo	r CH1312		Temperature	:	23~25°C		
Test Mode :		RMC 12.2k	(bps Link	(QPSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	er:	Sam Li				Polarization		Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	IB below limi	t line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3424.8	-43.2	21 -13	-30.21	-56.04	-50.40	0.81	8.0	0	Н	Pass
5137.2	-45.4	45 -13	-32.45	-63.98	-54.50	0.95	10.	00	Н	Pass
6849.6	-42.	11 -13	-29.11	-63.45	-54.38	1.13	13.4	40	Н	Pass

Band :		WCDMA Band IV for CH1312				Temperature	23~25°C				
Test Mode :	RMC 12.2Kbps Link (QPSK)					Relative Humidity :		48~52%			
Test Engineer :		Sam Li					Polarization :		Vertical		
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.									it line.		
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBi	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3424.8	-42.	16	-13	-29.16	-55.5	-53.95	0.81	12	6	V	Pass
5137.2	-44.	39	-13	-31.39	-63.02	-56.14	0.95	12	7	V	Pass
6849.6	-46.	12	-13	-33.12	-67.11	-56.69	1.13	11.	7	V	Pass

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Band :		WCDMA Band IV for CH1413				Temperature	:	23~25°C		
Test Mode :	R	MC 12.2K	bps Link	Relative Hun	nidity:	48~52%				
Test Engineer :		am Li			Polarization	Horizontal				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit li								it line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3465	-42.13	-13	-29.13	-54.96	-49.32	0.81	8.0	0	Н	Pass
5197.5	-40.19	-13	-27.19	-58.72	-49.24	0.95	10.0	00	Н	Pass
6930	-42.78	-13	-29.78	-64.12	-55.05	1.13	13.4	40	Н	Pass

Band :		WCDMA Band IV for CH1413				Temperature :		23~25°C		
Test Mode :		RMC 12.2k	(bps Link	Relative Humidity :		48~52%				
Test Engineer :		Sam Li		Polarization :		Vertical				
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit lii								it line.		
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3465	-44.2	23 -13	-31.23	-57.57	-56.02	0.81	12.	.6	V	Pass
5197.5	-43.3	37 -13	-30.37	-62	-55.12	0.95	12	.7	V	Pass
6930	-45.5	8 -13	-32.58	-66.57	-56.15	1.13	11.	.7	V	Pass

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Band :	V	/CDMA Ba	and IV fo	r CH1513		Temperature	:	23~2	5°C	
Test Mode :	R	MC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5		
Test Enginee	er: S	am Li				Polarization	:	Horiz	ontal	
Remark :	s	purious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limi	it line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3505.2	-43.95	-13	-30.95	-56.78	-51.14	0.81	8.0	0	Н	Pass
5257.8	-42.79	-13	-29.79	-61.32	-51.84	0.95	10.0	00	Н	Pass
7010.4	-42.96	-13	-29.96	-64.30	-55.23	1.13	13.4	40	Н	Pass

Donal .) ond \/ fa	or CH1513		Tomoroughura		22 2	F°C	
Band :		VVCDIVIA	sand IV IC	пспізіз		Temperature :		23~25°C		
Test Mode:		RMC 12.2	Kbps Link	(QPSK)		Relative Humidity :		48~52%		
Test Engine	er:	Sam Li				Polarization	:	Vertic	cal	
Remark :		Spurious e	emissions	within 30-1	1000MHz	were found m	nore tha	n 20d	B below lim	it line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	n Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3505.2	-44.4	17 -13	-31.47	-57.81	-56.26	0.81	12.	6	V	Pass
5257.8	-43.3	35 -13	-30.35	-62.67	-55.10	0.95	12.	7	V	Pass
7010.4	-44.1	10 -13	-31.10	-65.09	-54.67	1.13	11.	7	V	Pass

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Band :		WC	DMA Ba	nd II for	CH9296		Temperature	:	23~25°C		
Test Mode :		RM	C 12.2K	bps Link	(QPSK)		Relative Hun	48~52%			
Test Engine	er:	San	n Li				Polarization	:	Horiz	ontal	
Remark :		Spu	ırious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3704.8	-41.7	7 9	-13	-28.79	-53.52	-53.52	0.87	12.	60	Н	Pass
5557.2	-45.0	9	-13	-32.09	-60.97	-57.12	1.07	13.	10	Н	Pass
7409.6	-42.0)3	-13	-29.03	-60.35	-51.64	1.69	11.3	30	Н	Pass
9262	-37.7	73	-13	-24.73	-61.16	-47.80	1.83	11.9	90	Н	Pass

Band :	W	CDMA B	and II for	CH9296		Temperature	:	23~25°C		
Test Mode :	RI	MC 12.2K	bps Link	(QPSK)		Relative Hun	nidity :	48~52%		
Test Engine	er: Sa	am Li				Polarization	:	Vertic	al	
Remark :	Sį	ourious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limi	it line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3704.8	-42.00	-13	-29.00	-54.47	-53.73	0.87	12	.6	V	Pass
5557.2	-41.01	-13	-28.01	-57.33	-53.04	1.07	13	.1	V	Pass
7409.6	-40.82	-13	-27.82	-59.04	-50.43	1.69	11.	3	V	Pass
9262	-41.67	-13	-28.67	-64.48	-51.74	1.83	11.	9	V	Pass

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Band :	V	VCDMA Ba	and II for	CH9400		Temperature	:	23~2	5°C	
Test Mode :	F	RMC 12.2K	bps Link	(QPSK)		Relative Humidity :		48~52%		
Test Engine	er: S	Sam Li				Polarization		Horiz	ontal	
Remark :	S	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	it line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-50.6	1 -13	-37.61	-61.86	-62.34	0.87	12.0	30	Н	Pass
5640	-47.90	0 -13	-34.90	-63.78	-59.93	1.07	13.	10	Н	Pass
7520	-45.03	3 -13	-32.03	-63.35	-54.64	1.69	11.3	30	Н	Pass

Band :		WCDMA B	and II for	CH9400		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2	Kbps Link	(QPSK)		Relative Humidity :		48~52%		
Test Engine	er:	Sam Li				Polarization		Vertio	cal	
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	IB below limi	t line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-50.′	15 -13	-37.15	-62.62	-61.88	0.87	12.	.6	V	Pass
5640	-47.6	63 -13	-34.63	-63.95	-59.66	1.07	13	.1	V	Pass
7520	-43.3	39 -13	-30.39	-61.61	-53.00	1.69	11.	3	V	Pass

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Band :		WCDM	IA Ba	nd II for	CH9538		Temperature	:	23~25°C		
Test Mode :		RMC 1	2.2K	bps Link	(QPSK)		Relative Hur	nidity :	48~52%		
Test Engine	er:	Sam Li Polarization : Horizonta			ontal						
Remark :	,	Spurio	purious emissions within 30-1000MHz were found more tha					n 20d	IB below limi	t line.	
Frequency	EIRI	P Liı	mit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dE	3m)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3815.2	-44.5	51 -1	13	-31.51	-55.76	-56.24	0.87	12.	60	Н	Pass
5722.8	-46.0	00 -1	13	-33.00	-61.88	-58.03	1.07	13.	10	Н	Pass
7630.4	-42.3	30 -1	13	-29.30	-60.62	-51.91	1.69	11.3	30	Н	Pass
9538	-37.4	17 -1	13	-24.47	-60.90	-47.54	1.83	11.9	90	Н	Pass

Band :	W	CDMA Ba	and II for	CH9538		Temperature	:	23~2	5°C	
Test Mode :	R	MC 12.2Kbps Link (QPSK)				Relative Humidity :		48~52%		
Test Engine	er: S	am Li				Polarization		Vertic	al	
Remark :	SI	ourious er	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3815.2	-46.11	-13	-33.11	-58.58	-57.84	0.87	12	6	V	Pass
5722.8	-43.75	-13	-30.75	-60.07	-55.78	1.07	13.	1	V	Pass
7630.4	-41.37	-13	-28.37	-59.59	-50.98	1.69	11.	3	V	Pass
9538	-39.10	-13	-26.10	-61.91	-49.17	1.83	11.	9	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 testing follows FCC KDB 971168 v02r02 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 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.

3.8.4 Test Procedures for Voltage Variation

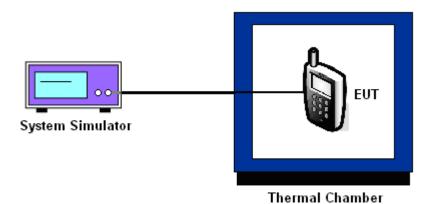
- 1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 4. The variation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

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3.8.5 Test Setup



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3.8.6 Test Result of Temperature Variation

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

_ ,	GSM	EDGE class 8	
Temperature (°C)	Deviation (ppm)	Deviation (ppm)	Result
50	0.0179	0.0191	
40	0.0132	0.0132	
30	0.0072	0.0072	
20(Ref.)	0.0000	0.0000	
10	0.0622	0.0550	PASS
0	0.0670	0.0586	
-10	0.0705	0.0622	
-20	0.0729	0.0658	
-30	0.0753	0.0693	

Band :	GSM 1900	Channel:	661
Limit (ppm) :	within authorized band	Frequency:	1880.0 MHz

T	GSM	EDGE class 8	
Temperature (°C)	Deviation (ppm)	Deviation (ppm)	Result
50	0.0112	0.0101	
40	0.0069	0.0064	
30	0.0037	0.0032	
20(Ref.)	0.0000	0.0000	
10	0.0404	0.0394	PASS
0	0.0420	0.0420	
-10	0.0441	0.0441	
-20	0.0468	0.0457	
-30	0.0495	0.0479	

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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

	RMC 12.2Kbps			
Temperature (°C)	Deviation (ppm)	Result		
50	0.0191			
40	0.0132			
30	0.0084			
20(Ref.)	0.0000			
10	0.0466	PASS		
0	0.0502			
-10	0.0538			
-20	0.0586			
-30	0.0622			

Band:	WCDMA Band IV	Channel : 1413	
Limit (ppm):	within authorized band	Frequency:	1732.6 MHz

	RMC 12.2Kbps	
Temperature (°C)	Deviation (ppm)	Result
50	0.0075	
40	0.0040	
30	0.0017	
20(Ref.)	0.0000	
10	0.0300	PASS
0	0.0312	
-10	0.0335	
-20	0.0358	
-30	0.0375	

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Band :	WCDMA Band II	CDMA Band II Channel:			
Limit (ppm) :	within authorized band	Frequency:	1880.0 MHz		

- ,	RMC 12.2Kbps	
Temperature (°C)	Deviation (ppm)	Result
50	0.0090	
40	0.0059	
30	0.0027	
20(Ref.)	0.0000	
10	0.0309	PASS
0	0.0330	
-10	0.0340	
-20	0.0362	
-30	0.0383	

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
		4.2	0.0012		
	GSM	3.8	0.0000		
GSM 850		BEP	0.0024	2.5	
CH189		4.2	0.0012	2.5	
	EDGE class 8	3.8	0.0000		
	01433 0	BEP	0.0024		
		4.2	0.0011		
	GSM	3.8	0.0000		PASS
GSM 1900		BEP	0.0048	(Note 2.)	
CH661	EDGE class 8	4.2	0.0011	(Note 3.)	
		3.8	0.0000		
		BEP	0.0011		
14/0DMA D 11/		4.2	0.0024		
WCDMA Band V CH4182	RMC 12.2Kbps	3.8	0.0000	2.5	
0114102	12.21000	BEP	0.0012		
WODIAA D		4.2	0.0017		
WCDMA Band IV CH1413	RMC 12.2Kbps	3.8	0.0000	(Note 3.)	
	12.21000	BEP	0.0006		
		4.2	0.0011		
WCDMA Band II CH9400	RMC 12.2Kbps	3.8	0.0000	(Note 3.)	
OI 13400	12.21000	BEP	0.0005		

Note:

- 1. Normal Voltage = 3.8V.
- 2. Battery End Point (BEP) = 3.6 V.
- 3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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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	FSV40	101078	9kHz~40GHz	May 05, 2015	Aug. 06, 2015~ Aug. 07, 2015	May 04, 2016	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion	LP-150U	H2014081803	-40~+150°C	Sep. 16, 2014	Aug. 06, 2015~ Aug. 07, 2015	Sep. 15, 2015	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Aug. 14, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Ma x 30dBm	Sep. 25, 2014	Aug. 14, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Aug. 14, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Aug. 14, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	Aug. 14, 2015	Sep. 03, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Aug. 14, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Aug. 14, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 28, 2015	Aug. 14, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Aug. 14, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 14, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 14, 2015	NCR	Radiation (03CH01-SZ)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	4.5dB
Confidence of 95% (U = 2Uc(y))	4.3dB

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