FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Smartphone

BRAND NAME : BLU

MODEL NAME : STUDIO 5.5 C

FCC ID : YHLBLUSTUDIO55C

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 Feb. 06, 2015 and testing was completed on Mar. 01, 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

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Testing Laboratory

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG520605	Rev. 01	Initial issue of report	Apr. 09, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	1 §2.1046 Conducted Output Power		Reporting Only	PASS	-
3.2	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.4	§2.1049 §22.917(b) §24.238(b) §27.53(g)	Occupied Bandwidth	Reporting Only	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 31.58 dB at 5643.000 MHz
3.8	§2.1055 §22.355 §2.1055 §24.235 §27.54	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22 Within Authorized Band	PASS	-

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1 **General Description**

1.1 Applicant

CT Asia

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

1.2 Manufacturer

Tinno Mobile Technology Corp.

4/F, H-3 Building, OCT Eastern industrial Park, No.1 XiangShan East Road, Nan Shan District, Shenzhen, P.R. China

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	Smartphone					
Brand Name	BLU					
Model Name	STUDIO 5.5 C					
FCC ID	YHLBLUSTUDIO55C					
EUT supports Radios application	GSM/GPRS/EGPRSWCDMA/HSPA/HSPA+(Downlink Only)/ WLAN2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+EDR/Bluetooth v4.0 LE					
HW Version	V1.0					
SW Version	S5301BLU_V01					
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 Speci	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: 32.85 dBm GSM1900: 30.12 dBm WCDMA Band V: 22.79 dBm WCDMA Band IV: 22.75 dBm WCDMA Band II: 23.02 dBm						
Antenna Type	PIFA 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)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.4961	0.0155 ppm	247KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.2038	0.0132 ppm	253KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0835	0.0191 ppm	4M16F9W
Part 24	GSM1900 GSM	GMSK	1.0807	0.0138 ppm	246KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.4561	0.0298 ppm	250KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2039	0.0239 ppm	4M16F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1867	0.0167 ppm	4M17F9W

1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
	1F & 2F,Building A, Morning Business	Center, No. 4003 ShiGu Rd., Xili Town,				
	Nanshan District, Shenzhen, Guangdong, P. R. China					
Test Site Location	TEL: +86-755-8637-9589					
	FAX: +86-755-8637-9595					
Took Cita No	Sportor	n Site No.				
Test Site No.	TH01-SZ	OTA02-SZ				

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Took Cita No	Sporton Site No.	FCC Registration No.			
Test Site No.	03CH01-KS	149928			

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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

Remark:

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

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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						
GSINI 650	■ EDGE class 8 Link	■ EDGE class 8 Link						
GSM 1900	■ GSM Link	■ GSM Link						
GSW 1900	■ EDGE class 8 Link	■ EDGE class 8 Link						
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						

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	189 251		512 661				
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8			
GSM	32.85	32.81	32.72	29.70	29.87	30.12			
GPRS class 8	32.84	32.80	32.71	29.75	29.88	30.11			
GPRS class 10	30.83	30.78	30.69	27.69	27.88	28.18			
GPRS class 11	29.32	29.26	29.17	26.15	26.37	26.69			
GPRS class 12	28.36	28.31	28.21	25.18	25.39	25.73			
EGPRS class 8	28.15	27.97	27.72	27.26	27.02	26.84			
EGPRS class 10	26.18	25.99	25.72	25.29	24.91	24.73			
EGPRS class 11	24.07	23.86	23.57	22.96	22.54	22.38			
EGPRS class 12	22.92	22.72	22.42	21.65	21.21	21.02			

Conducted Power (*Unit: dBm)										
Band WCDMA Ba			nd V	WC	DMA Bai	nd II	WCI	WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513	
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6	
AMC 12.2K	22.41	22.78	22.66	22.85	22.78	23.00	22.55	22.62	22.73	
RMC 12.2K	22.42	<mark>22.79</mark>	22.68	22.86	22.79	23.02	22.56	22.63	<mark>22.75</mark>	
HSDPA Subtest-1	21.04	21.14	21.02	21.37	21.41	21.39	21.12	21.05	21.44	
HSDPA Subtest-2	21.03	21.13	21.05	21.37	21.41	21.40	21.09	21.05	21.43	
HSDPA Subtest-3	20.57	20.67	20.53	20.90	20.97	20.92	20.61	20.63	20.99	
HSDPA Subtest-4	20.55	20.66	20.49	20.92	20.96	20.93	20.58	20.59	20.99	
HSUPA Subtest-1	19.11	19.13	19.02	19.38	19.47	19.46	19.10	19.13	19.47	
HSUPA Subtest-2	19.12	19.09	19.01	19.35	19.47	19.49	19.13	19.13	19.45	
HSUPA Subtest-3	20.09	20.07	20.02	20.38	20.45	20.47	20.08	20.09	20.42	
HSUPA Subtest-4	18.58	18.54	18.44	18.84	18.97	18.95	18.57	18.59	18.92	
HSUPA Subtest-5	21.10	21.00	21.20	21.40	21.40	21.40	21.10	21.10	21.40	

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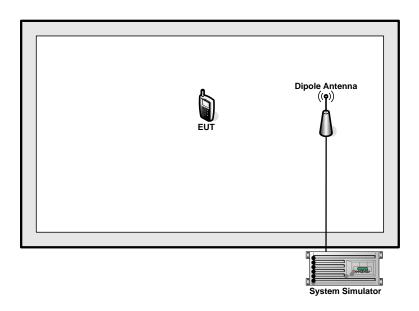
For SIM2 Card

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>32.83</mark>	32.78	32.70	29.69	29.85	<mark>30.08</mark>		
GPRS class 8	32.81	32.76	32.68	29.68	29.84	30.06		
GPRS class 10	30.80	30.76	30.65	27.63	27.86	28.15		
GPRS class 11	29.28	29.25	29.16	26.12	26.33	26.64		
GPRS class 12	28.35	28.28	28.19	25.15	25.34	25.69		
EGPRS class 8	28.13	27.96	27.71	27.24	26.98	26.82		
EGPRS class 10	26.16	25.96	25.70	25.28	24.90	24.72		
EGPRS class 11	24.06	23.82	23.54	22.92	22.50	22.36		
EGPRS class 12	22.89	22.68	22.39	21.62	21.20	21.01		

	Conducted Power (*Unit: dBm)									
Band	WCI	DMA Bar	nd V	WC	DMA Bai	nd II	WCI	DMA Bar	ld 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	
AMC 12.2K	22.38	22.76	22.65	22.83	22.77	22.98	22.54	22.60	22.73	
RMC 12.2K	22.40	<mark>22.78</mark>	22.66	22.85	22.78	23.00	22.55	22.62	<mark>22.74</mark>	
HSDPA Subtest-1	20.97	21.07	20.96	21.33	21.38	21.35	21.08	20.99	21.36	
HSDPA Subtest-2	20.98	21.08	21.00	21.32	21.37	21.38	21.02	20.98	21.35	
HSDPA Subtest-3	20.53	20.60	20.47	20.87	20.95	20.87	20.55	20.55	20.92	
HSDPA Subtest-4	20.52	20.64	20.46	20.87	20.90	20.88	20.50	20.52	20.93	
HSUPA Subtest-1	19.06	19.09	18.98	19.36	19.44	19.42	19.06	19.06	19.40	
HSUPA Subtest-2	19.08	19.06	18.96	19.30	19.43	19.44	19.08	19.07	19.37	
HSUPA Subtest-3	20.04	20.03	19.99	20.36	20.40	20.46	20.00	20.01	20.34	
HSUPA Subtest-4	18.50	18.51	18.38	18.80	18.96	18.91	18.54	18.53	18.86	
HSUPA Subtest-5	21.05	20.96	21.15	21.38	21.39	21.38	21.04	21.03	21.35	

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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	GW INSTEK	GPD-2303S	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 5.0 dB and a 10dB attenuator.

Example:

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

= 5.0 + 10 = 15.0 (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

- The transmitter output port was connected to the system simulator. 1.
- 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)			GSM8	50 (EDGE c	lass 8)	WCDMA Band V (RMC 12.2Kbps			
Channel	128 (Low)	189 251 128 189 251 (Mid) (High) (Low) (Mid) (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)	32.85	32.81	32.72	28.15	27.97	27.72	22.42	22.79	22.68	

	PCS Band									
Modes	GSM1900 (GSM)			GSM19	900 (EDGE c	lass 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)	29.70	29.87	30.12	27.26	27.02	26.84	22.86	22.79	23.02	

	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)	22.56	22.63	22.75						

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.

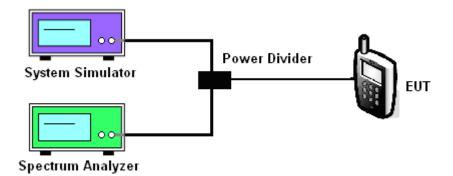
3.2.2 Measuring Instruments

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.
- For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option on the spectrum analyzer.
 - 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



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3.2.5 Test Result of Peak-to-Average Ratio

	PCS Band									
Modes	GSM1900 (GSM) GSI				00 (EDGE o	class 8)		CDMA Band MC 12.2Kb _l		
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)	0.32	0.32	0.31	2.58	2.61	2.70	3.72	4.24	3.80	

	AWS Band							
Modes	WCDMA Band IV (RMC 12.2Kbps)							
Channel	1312(Low)	1312(Low) 1413 (Mid) 1513 (High)						
Frequency (MHz)	1712.4	1732.6	1752.6					
Peak-to-Average Ratio (dB)	3.76	4.44	3.48					

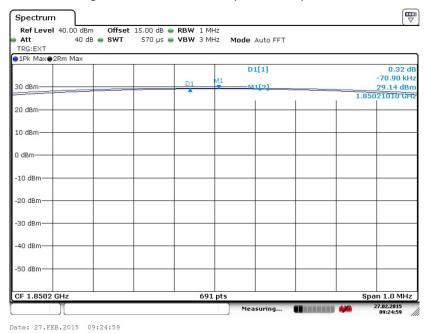
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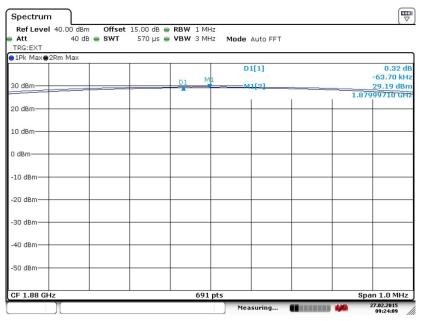
3.2.6 Test Result (Plots) of Peak-to-Average Ratio

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

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



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

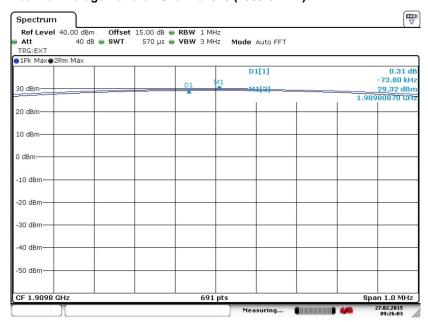


Date: 27.FEB.2015 09:24:10

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

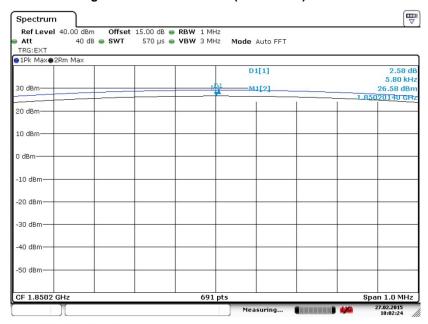


Date: 27.FEB.2015 09:26:03

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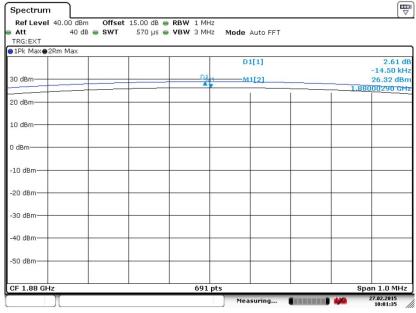
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 27.FEB.2015 10:02:24

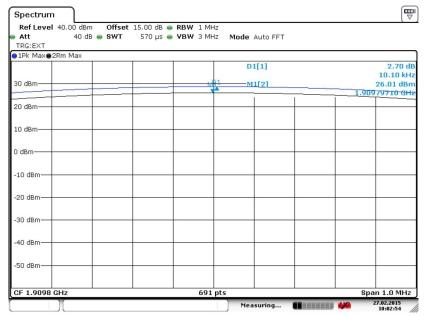
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 27.FEB.2015 10:01:35

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

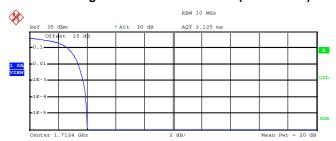


Date: 27.FEB.2015 10:02:55

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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)



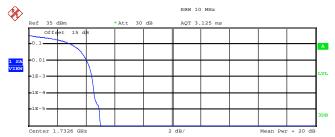
Complementary Cumulative Distribution Function (100000 samples

Trace 1
Mean 20.62 dBm
Peak 24.67 dBm
Crest 4.04 dB

10 % 2.68 dB
1 % 3.44 dB
.1 % 3.76 dB
.01 % 3.92 dB

Date: 14.FEB.2015 00:52:36

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.23 dBm Peak 25.23 dBm Crest 5.00 dB 10 % 3.00 dB 1 % 4.08 dB .1 % 4.44 dB

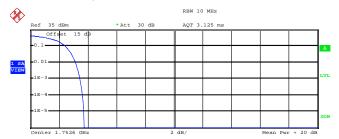
Date: 14.FEB.2015 00:52:54

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 22 of 88

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Peak-to-Average Ratio on Channel 1513 (1752.6 MHz)



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

Trace 1
Mean 21.34 dBm
Peak 25.09 dBm
Crest 3.75 dB

10 % 2.44 dB
1 % 3.16 dB
.1 % 3.48 dB
.01 % 3.64 dB

Date: 14.FEB.2015 00:53:09

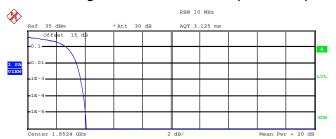
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 23 of 88

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

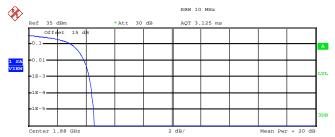
Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



		Trace	3 T
Mear	ı	21.06	dBn
Peal	ς	25.16	dBn
Cres	st	4.10	dВ
10	용	2.72	dB
1	용	3.44	dВ
. 1	용	3.72	dВ
.01	용	3.92	dB

Date: 14.FEB.2015 00:11:07

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



Cumulative Distribution Function (100000 samples)
Trace 1

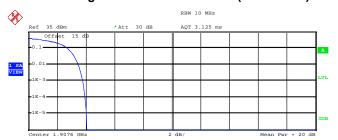
20.65 dBm Mean Peak 25.23 dBm Crest 4.58 dB 10 % 3.00 dB 1 % 3.88 dB .1 % 4.24 dB .01 % 4.44 dB

Date: 14.FEB.2015 00:11:35

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 24 of 88 Report Issued Date: Apr. 09, 2015 Report Version

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



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

Mean 21.16 dBm Peak 25.23 dBm Crest 4.07 dB 10 % 2.72 dB 1 % 3.48 dB .1 % 3.80 dB .01 % 3.96 dB

Date: 14.FEB.2015 00:12:06

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

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

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

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

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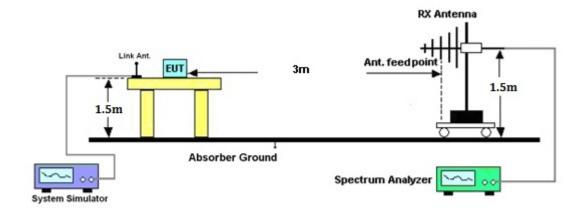
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 26 of 88

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3.3.4 Test Setup



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3.3.5 Test Result of ERP

	GSM850 (GSM) Radiated Power ERP							
		Hoi	rizontal Polariza	tion				
Frequency	Rt Rs Ps Gs ERP ERP							
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.20	-20.08	-48.12	0.00	-1.08	26.96	0.4961		
836.40	-20.66	-48.28	0.00	-0.93	26.69	0.4661		
848.80	-21.18	-48.35	0.00	-0.76	26.41	0.4376		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	ERP	ERP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.20	-29.18	-47.97	0.00	-1.08	17.71	0.0590		
836.40	-29.60	-48.01	0.00	-0.93	17.48	0.0560		
848.80	-29.27	-48.05	0.00	-0.76	18.02	0.0634		

	GSM850 (EDGE class 8) Radiated Power ERP							
		Hoi	rizontal Polariza	tion				
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)		
824.20	-25.12	-48.12	0.00	-1.08	21.92	0.1555		
836.40	-24.49	-48.28	0.00	-0.93	22.86	0.1930		
848.80	-24.50	-48.35	0.00	-0.76	23.09	0.2038		
		Ve	ertical Polarization	on				
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)		
824.20	-34.23	-47.97	0.00	-1.08	12.66	0.0184		
836.40	-33.36	-48.01	0.00	-0.93	13.72	0.0236		
848.80	-32.53	-48.05	0.00	-0.76	14.76	0.0299		

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	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP									
	Horizontal Polarization									
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)				
826.40	-30.63	-48.12	0.00	-1.08	16.41	0.0437				
836.40	-28.95	-48.28	0.00	-0.93	18.40	0.0691				
846.60	-28.38	-48.35	0.00	-0.76	19.22	0.0835				
		Ve	ertical Polarization	on						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)				
826.40	-40.11	-47.97	0.00	-1.08	6.78	0.0048				
836.40	-38.18	-48.01	0.00	-0.93	8.90	0.0078				
846.60	-36.85	-48.05	0.00	-0.76	10.44	0.0111				

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3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP					
		Hoi	rizontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-25.26	-51.88	0.00	1.96	28.58	0.7216
1880.00	-25.49	-52.99	0.00	2.00	29.50	0.8906
1909.80	-26.48	-54.28	0.00	1.98	29.78	0.9498
		Ve	ertical Polarizati	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-24.13	-52.13	0.00	1.96	29.96	0.9918
1880.00	-24.83	-53.17	0.00	2.00	30.34	1.0807
1909.80	-26.18	-54.13	0.00	1.98	29.93	0.9835

	GSM1900 (EDGE class 8) Radiated Power EIRP					
		Hoi	rizontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-28.71	-51.88	0.00	1.96	25.13	0.3257
1880.00	-29.21	-52.99	0.00	2.00	25.78	0.3787
1909.80	-29.98	-54.28	0.00	1.98	26.28	0.4242
		Ve	ertical Polarizati	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-27.64	-52.13	0.00	1.96	26.45	0.4420
1880.00	-28.58	-53.17	0.00	2.00	26.59	0.4561
1909.80	-29.73	-54.13	0.00	1.98	26.38	0.4345

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	WCDMA Band IV (RMC 12.2Kbps) Radiated Power EIRP					
		Hoi	rizontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1712.40	-31.52	-51.88	0.00	1.96	22.32	0.1706
1732.60	-33.03	-52.99	0.00	2.00	21.96	0.1572
1752.60	-34.62	-54.28	0.00	1.98	21.64	0.1460
		Ve	ertical Polarizati	on		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1712.40	-31.63	-52.13	0.00	1.96	22.46	0.1761
1732.60	-32.46	-53.17	0.00	2.00	22.71	0.1867
1752.60	-33.55	-54.13	0.00	1.98	22.56	0.1803

	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP						
		Hoi	rizontal Polariza	tion			
Frequency (MHz)	Rt (dBm)	Rs (dRm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)	
(IVIIIZ)	(ubiii)	(dBm)	(ubiii)	(ubi)	, ,	(**)	
1852.40	-32.03	-51.88	0.00	1.96	21.81	0.1516	
1880.00	-32.76	-52.99	0.00	2.00	22.23	0.1670	
1907.60	-33.78	-54.28	0.00	1.98	22.48	0.1769	
		Ve	ertical Polarizati	on			
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)	
1852.40	-31.03	-52.13	0.00	1.96	23.06	0.2024	
1880.00	-32.08	-53.17	0.00	2.00	23.09	0.2039	
1907.60	-33.56	-54.13	0.00	1.98	22.55	0.1798	

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3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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

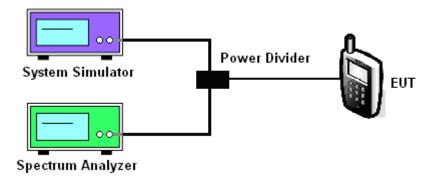
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. 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.
- 4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, peak detector, trace maximum hold.
- 5. 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	G	GSM850 (GSM)			50 (EDGE c	lass 8)
Channel	128	189	251	128	189	251
Chamer	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8
99% OBW (kHz)	245.00	242.00	247.00	245.00	253.00	250.00
26dB BW (kHz)	317.00	311.00	305.00	313.00	310.00	305.00

PCS Band						
Modes	Modes GSM1900 (GSM) GSM1900 (EDGE of			class 8)		
	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)	244.00	245.00	246.00	249.00	250.00	250.00
26dB BW (kHz)	308.00	307.00	309.00	298.00	314.00	309.00

Cellular Band						
Modes	WCD	WCDMA Band V (RMC 12.2Kbps)				
Channel	4132 (Low)	4132 (Low) 4182 (Mid) 4233 (High)				
Frequency (MHz)	826.4	836.4	846.6			
99% OBW (MHz)	4.16	4.14	4.16			
26dB BW (MHz)	4.67	4.67 4.69				

AWS Band							
Modes	WCDMA Band IV (RMC 12.2Kbps)						
Channel	1312(Low)	1312(Low) 1413 (Mid) 1513 (High)					
Frequency (MHz)	1712.4	1752.6					
99% OBW (MHz)	4.17	4.16	4.17				
26dB BW (MHz)	4.70	4.70	4.66				

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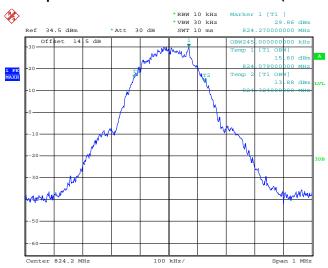
PCS Band						
Modes	WCD	WCDMA Band II (RMC 12.2Kbps)				
Channel	9262 (Low)	9262 (Low) 9400 (Mid) 9538 (High)				
Frequency (MHz)	1852.4 1880 1907.6					
99% OBW (MHz)	4.16	4.16	4.16			
26dB BW (MHz)	4.69	4.69 4.69 4.69				

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

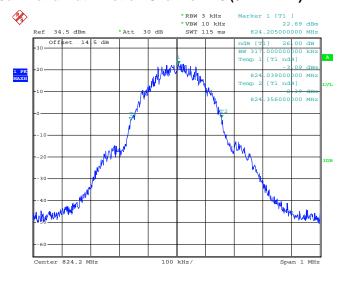
Band: GS	SM 850	Test Mode :	GSM Link (GMSK)
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 13.FEB.2015 21:05:45

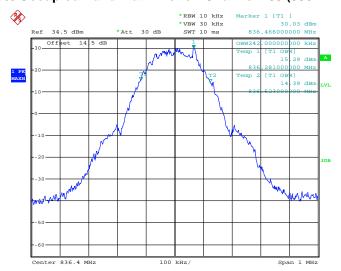
26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 13.FEB.2015 22:30:38

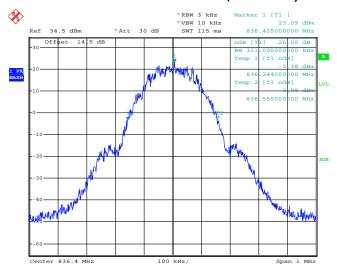
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 13.FEB.2015 21:06:26

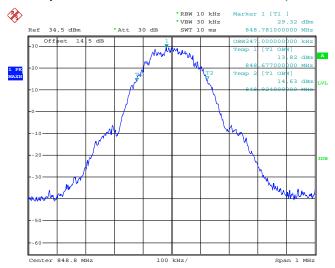
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 13.FEB.2015 22:31:28

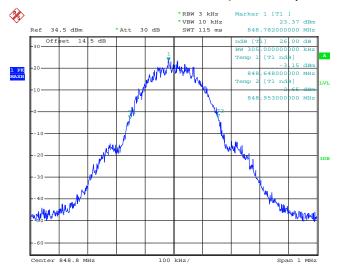
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 13.FEB.2015 21:07:22

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

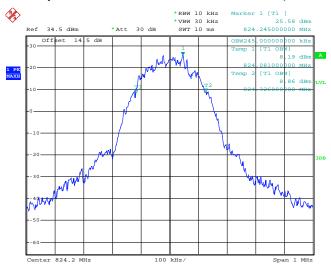


Date: 13.FEB.2015 22:32:00

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 37 of 88
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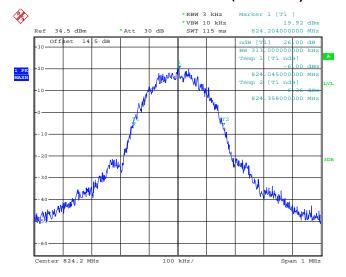
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 13.FEB.2015 22:09:26

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

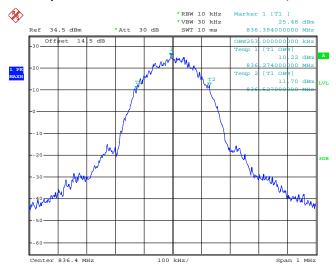


Date: 13.FEB.2015 22:03:54

SPORTON INTERNATIONAL (SHENZHEN) INC.

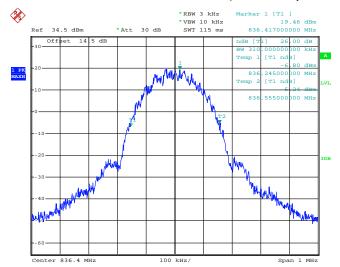
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 38 of 88
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 13.FEB.2015 22:10:09

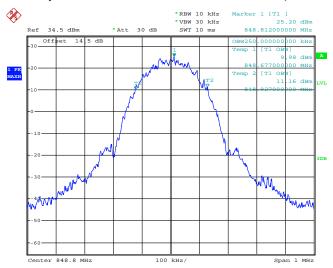
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 13.FEB.2015 22:05:02

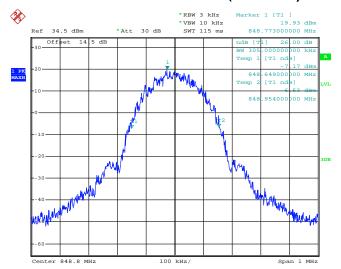
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 39 of 88
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 13.FEB.2015 22:11:06

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

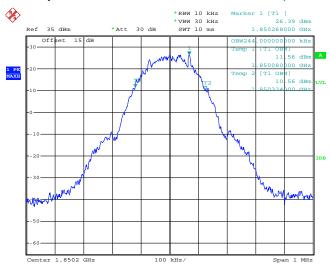


Date: 13.FEB.2015 22:06:07

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 40 of 88
Report Issued Date : Apr. 09, 2015
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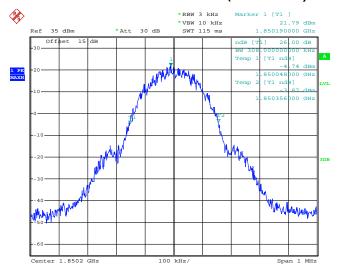
Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



Date: 13.FEB.2015 21:27:28

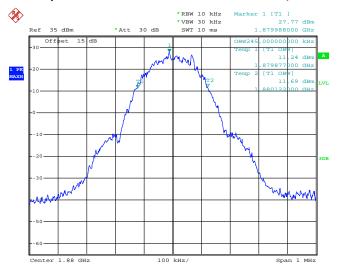
26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 13.FEB.2015 21:24:13

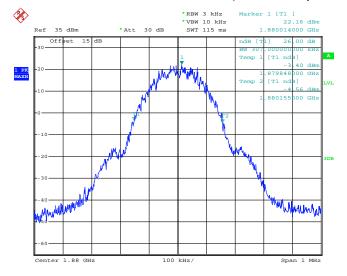
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 41 of 88
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 13.FEB.2015 21:28:02

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

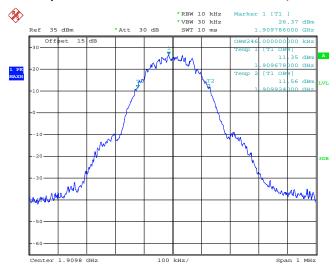


Date: 13.FEB.2015 21:25:13

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 42 of 88 Report Issued Date: Apr. 09, 2015 Report Version

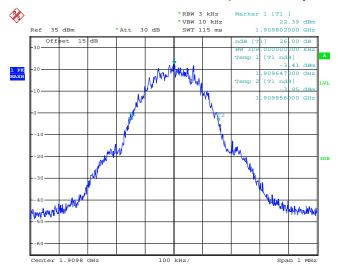
: Rev. 01

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



Date: 13.FEB.2015 21:28:44

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

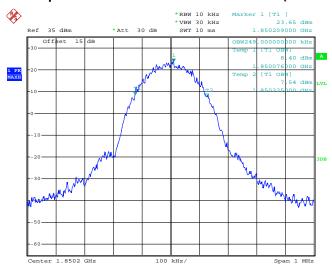


Date: 13.FEB.2015 21:26:10

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 43 of 88
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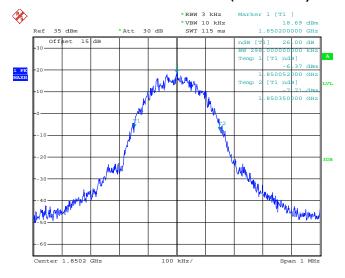
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 13.FEB.2015 21:46:55

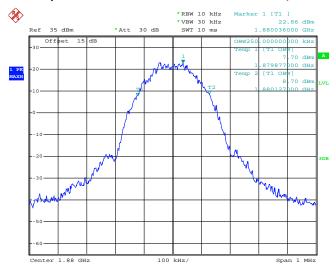
26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 13.FEB.2015 21:44:44

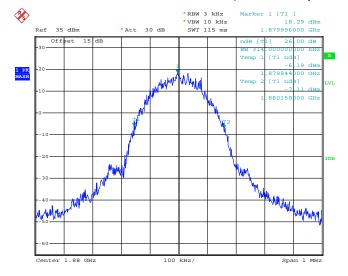
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 44 of 88
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 13.FEB.2015 21:47:26

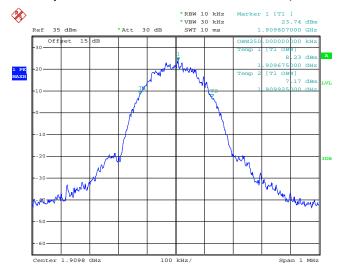
26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 13.FEB.2015 21:45:18

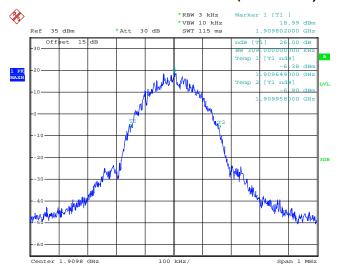
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 45 of 88
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99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 13.FEB.2015 21:49:08

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 13.FEB.2015 21:46:02

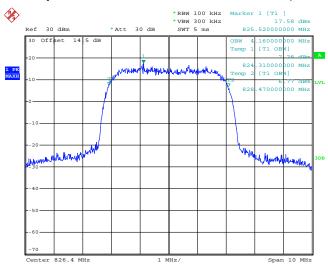
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 46 of 88

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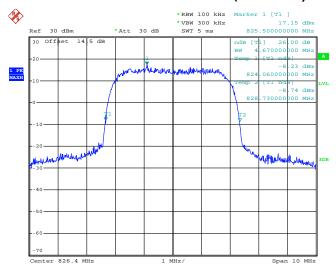
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 13.FEB.2015 22:56:11

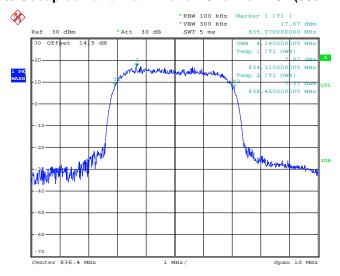
26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 13.FEB.2015 22:53:18

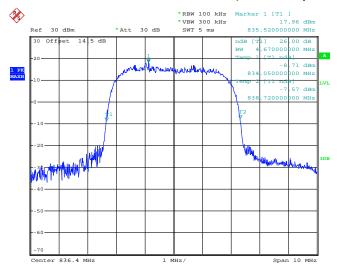
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 47 of 88
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99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 13.FEB.2015 22:56:45

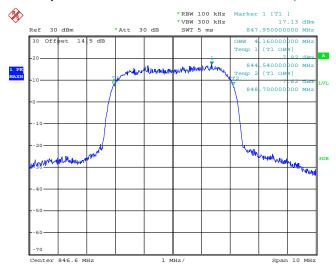
26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 13.FEB.2015 22:53:51

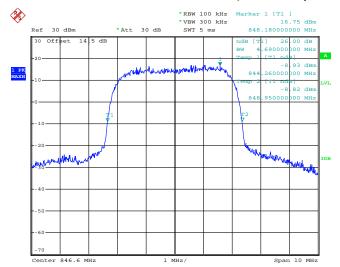
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 48 of 88
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99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 13.FEB.2015 22:57:18

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



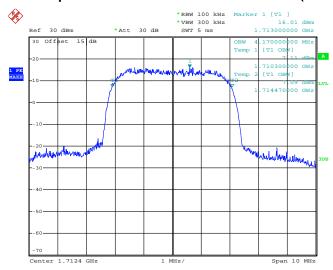
Date: 13.FEB.2015 22:54:37

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 49 of 88
Report Issued Date : Apr. 09, 2015
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Band:

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

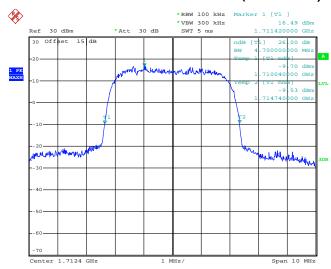
Test Mode:



Date: 14.FEB.2015 00:29:36

WCDMA Band IV

26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)



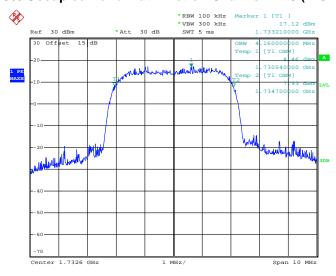
Date: 14.FEB.2015 00:26:29

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 50 of 88
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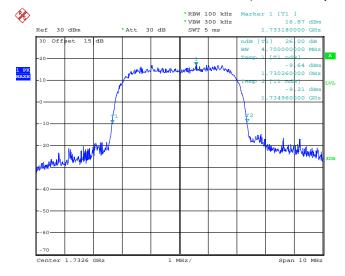
RMC 12.2Kbps Link (QPSK)

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



Date: 14.FEB.2015 00:31:37

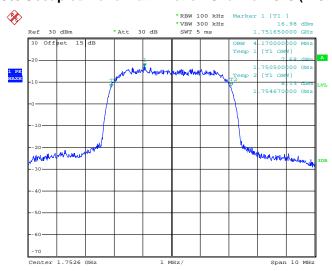
26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)



Date: 14.FEB.2015 00:27:07

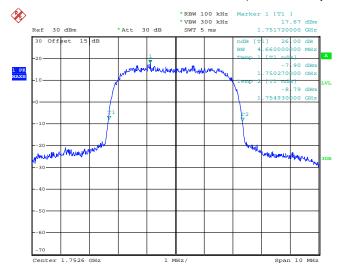
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 51 of 88
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99% Occupied Bandwidth Plot on Channel 1513 (1752.6 MHz)



Date: 14.FEB.2015 00:32:07

26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)



Date: 14.FEB.2015 00:27:44

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 52 of 88

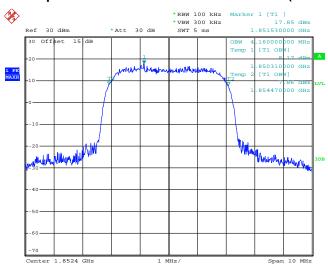
Report Issued Date : Apr. 09, 2015

Report No.: FG520605

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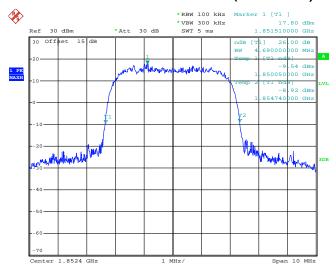
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 13.FEB.2015 23:21:58

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)

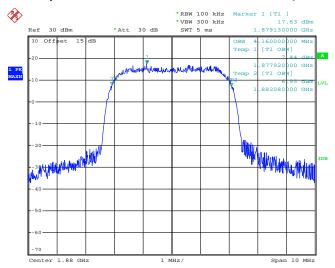


Date: 13.FEB.2015 23:18:27

SPORTON INTERNATIONAL (SHENZHEN) INC.

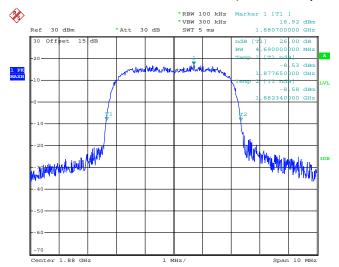
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 53 of 88
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99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 13.FEB.2015 23:22:32

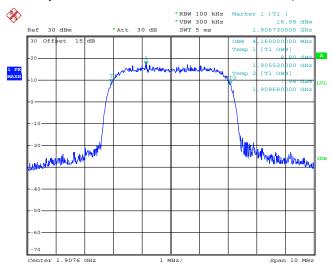
26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 13.FEB.2015 23:19:24

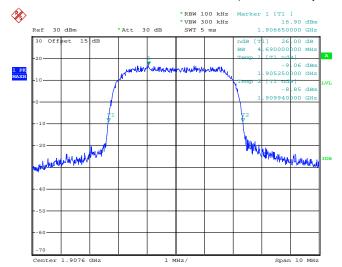
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 54 of 88
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99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 13.FEB.2015 23:23:14

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 13.FEB.2015 23:20:52

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 55 of 88
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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

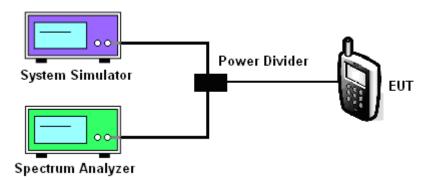
The measuring equipment is listed in the section 4 of this test report.

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 >



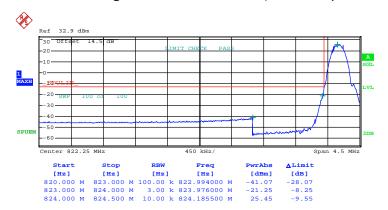
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 56 of 88
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3.5.5 Test Result (Plots) of Conducted Band Edge

Band: GSM850 Te	Test Mode :	GSM Link (GMSK)
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Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 13.FEB.2015 21:12:30

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 13.FEB.2015 21:18:07

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 57 of 88

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

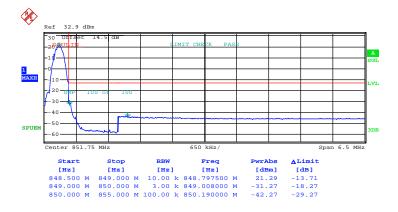
Report No.: FG520605

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 13.FEB.2015 22:17:30

Higher Band Edge Plot on Channel 251 (848.8 MHz)



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Date: 13.FEB.2015 22:23:06

SPORTON INTERNATIONAL (SHENZHEN) INC.

Band: GSM1900 Test Mode: GSM Link (GMSK)

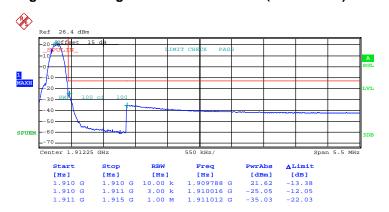
Report No.: FG520605

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 13.FEB.2015 21:33:09

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



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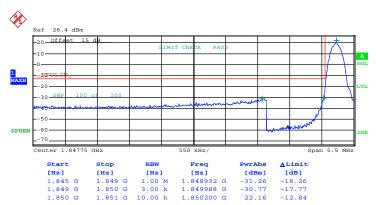
Report Issued Date: Apr. 09, 2015

Date: 13.FEB.2015 21:40:49

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

Report No.: FG520605

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 13.FEB.2015 21:53:35

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



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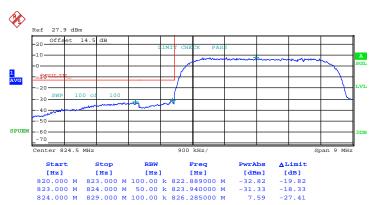
Report Issued Date: Apr. 09, 2015

Date: 13.FEB.2015 21:59:18

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

Report No.: FG520605

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Date: 13.FEB.2015 23:02:53

Higher Band Edge Plot on Channel 4233 (846.6 MHz)



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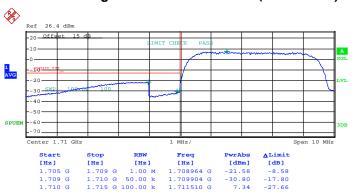
Report Issued Date: Apr. 09, 2015

Date: 13.FEB.2015 23:13:15

SPORTON INTERNATIONAL (SHENZHEN) INC.

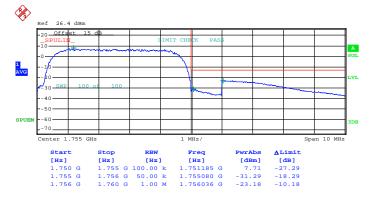
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 1312 (1712.4 MHz)



Date: 14.FEB.2015 00:39:39

Higher Band Edge Plot on Channel 1513 (1752.6 MHz)



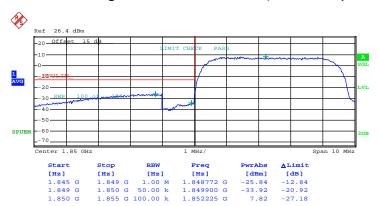
Date: 14.FEB.2015 00:45:10

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C

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

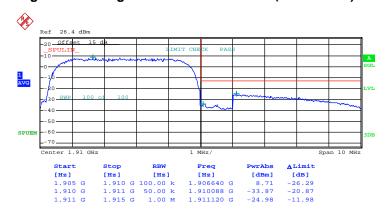
Report No.: FG520605

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 13.FEB.2015 23:29:49

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



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Report Issued Date: Apr. 09, 2015

Date: 14.FEB.2015 00:08:25

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.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.6.4 Test Setup



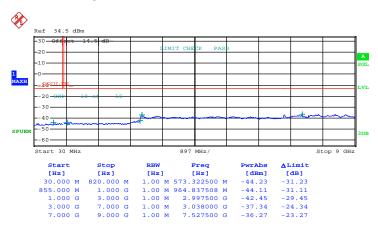
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 64 of 88
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

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

Conducted Spurious Emission Plot between 30MHz ~ 9GHz

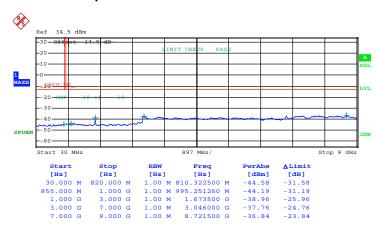


Date: 13.FEB.2015 21:19:46

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO55C Page Number : 65 of 88
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Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 9GHz



Date: 13.FEB.2015 22:24:49

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

Conducted Spurious Emission Plot between 30MHz ~ 19.1GHz



Date: 13.FEB.2015 21:42:02

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Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 19.1GHz

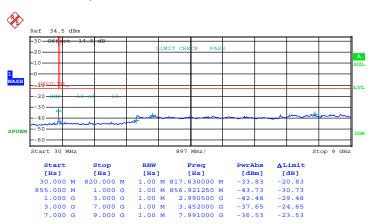


Date: 13.FEB.2015 22:00:35

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

Conducted Spurious Emission Plot between 30MHz ~ 9GHz

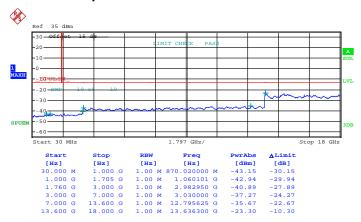


Date: 13.FEB.2015 23:14:44

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

Conducted Spurious Emission Plot between 30MHz ~ 18GHz

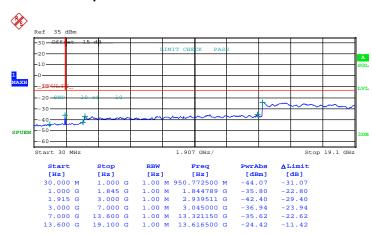


Date: 14.FEB.2015 00:46:49

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

Conducted Spurious Emission Plot between 30MHz ~ 19.1GHz



Date: 14.FEB.2015 00:09:36

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3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

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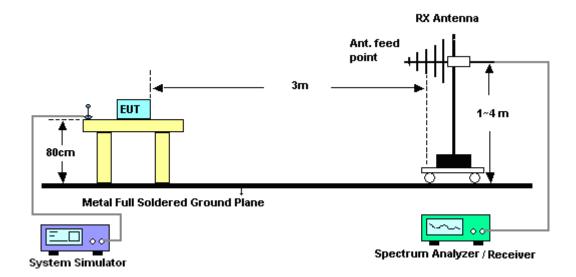
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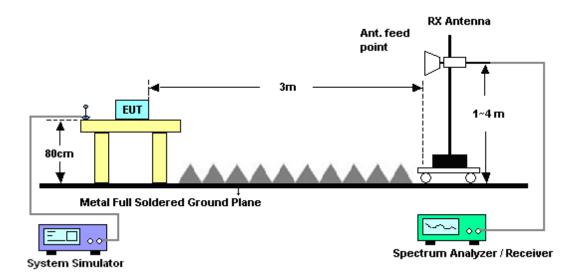
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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				Temperature	:	22~2		
Test Mode :		GSM Link	(GMSK)			Relative Hun	nidity:	42~4	3%	
Test Engine	er:	Hao Chen				Polarization	:	Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	000MHz	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)	
1674	-46.0	04 -13	-33.04	-53.64	-46.69	0.57	3.3	7	Н	Pass
2508	-64.2	24 -13	-51.24	-66.40	-66.47	0.78	5.1	6	Н	Pass
3345	-55.6	61 -13	-42.61	-63.28	-59.25	0.87	6.6	6	Н	Pass

Band :		GSM850				Temperature	:	22~2		
Test Mode :		GSM Link (GMSK)			Relative Hun	nidity:	42~4	3%	
Test Engine	er:	Hao Chen				Polarization	:	Vertic	cal	
Remark :		Spurious e	missions	within 30-1	000MHz	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	-48.8	39 -13	-35.89	-58.02	-49.54	0.57	3.3	7	V	Pass
2508	-60.9	98 -13	-47.98	-65.72	-63.21	0.78	5.1	6	V	Pass
3345	-58.0	04 -13	-45.04	-65.75	-61.68	0.87	6.6	6	V	Pass

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Band :		GSM850				Temperature	:	22~2	3°C	
Test Mode :		EDGE clas	s 8 Link	(8PSK)		Relative Hun	nidity :	42~4	3%	
Test Engine	er :	Hao Chen				Polarization	:	Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	nore tha	n 20c	IB below limi	it line.
Frequency	ER	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	-46.8	32 -13	-33.82	-54.16	-47.47	0.57	3.3	7	Н	Pass
2510	-61.	14 -13	-48.14	-63.30	-63.37	0.78	5.1	6	Н	Pass
3345	-57.9	95 -13	-44.95	-65.62	-61.59	0.87	6.6	6	Н	Pass

Band :		GSM850				Temperature	:	22~2		
Test Mode :		EDGE cla	ss 8 Link	(8PSK)		Relative Hun	nidity:	42~4	3%	
Test Engine	er:	Hao Cher)			Polarization	:	Vertic	al	
Remark :		Spurious	emissions	within 30-	1000MHz	were found n	nore 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)	(dBr	n) (dBm) (dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1674	-49.3	32 -13	-36.32	-58.39	-49.97	0.57	3.3	37	V	Pass
2510	-60.7	79 -13	-47.79	-65.53	-63.02	0.78	5.1	6	V	Pass
3345	-58.7	72 -13	-45.72	-66.43	-62.36	0.87	6.6	6	V	Pass

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Band :		GSM1900				Temperature	:	22~2	3°C	
Test Mode :		GSM Link ((GMSK)			Relative Hum	nidity :	42~4	3%	
Test Engine	er:	Hao Chen				Polarization		Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	IB 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)	(dBı	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3759	-36.8	30 -13	-23.80	-56.89	-43.18	0.78	7.1	6	Н	Pass
5643	-44.	58 -13	-31.58	-64.93	-53.12	1.04	9.5	8	Н	Pass
7521	-46.	75 -13	-33.75	-64.33	-56.86	1.35	11.4	16	Н	Pass

Band :		GSM1900				Temperature	:	22~2	3°C	
Test Mode :		GSM Link (GMSK)			Relative Hun	nidity :	42~4	3%	
Test Engine	er:	Hao Chen				Polarization		Vertic	al	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B 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)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3759	-45.1	15 -13	-32.15	-61.15	-51.53	0.78	7.1	6	V	Pass
5640	-49.4	1 5 -13	-36.45	-65.41	-57.99	1.04	9.5	8	V	Pass
7521	-47.6	62 -13	-34.62	-63.93	-57.73	1.35	11.4	46	V	Pass

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Band :		GSM1900				Temperature	:	22~2	3°C	
Test Mode :		EDGE clas	ss 8 Link	(8PSK)		Relative Hun	nidity:	42~4	3%	
Test Engine	er :	Hao Chen				Polarization	:	Horiz	ontal	
Remark :		Spurious e	emissions	within 30-1	1000MHz	were found m	nore tha	n 20c	IB below limi	it line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dBm)) (dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3759	-47.8	34 -13	-34.84	-65.29	-54.22	0.78	7.1	6	Н	Pass
5640	-46.8	32 -13	-33.82	-67.17	-55.36	1.04	9.5	8	Н	Pass
7521	-48.0	01 -13	-35.01	-65.59	-58.12	1.35	11.4	46	Н	Pass

Band :		GSM1900				Temperature	:	22~23°C		
Test Mode :		EDGE clas	ss 8 Link	(8PSK)		Relative Hun	nidity:	42~4	3%	
Test Engine	er:	Hao Chen				Polarization	:	Vertic	al	
Remark :		Spurious e	missions	within 30-1	000MHz	were found n	nore tha	n 20d	B below lim	it line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant		Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3759	-50.2	22 -13	-37.22	-66.05	-56.60	0.78	7.1	6	V	Pass
5640	-51.1	7 -13	-38.17	-67.13	-59.71	1.04	9.5	8	V	Pass
7521	-49.8	30 -13	-36.80	-66.11	-59.91	1.35	11.4	40	V	Pass

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Band :		WCDMA B	and V			Temperature	:	22~2	3°C	
Test Mode :		RMC 12.2	Kbps Link	(QPSK)		Relative Hum	nidity:	42~4	3%	
Test Engine	er:	Hao Chen				Polarization	:	Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	IB below limi	it line.
Frequency	ER	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBı	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-65.2	29 -13	-52.29	-65.90	-65.94	0.57	3.3	7	Н	Pass
2510	-63.	48 -13	-50.48	-65.64	-65.71	0.78	5.1	6	Н	Pass
3345	-57.	11 -13	-44.11	-64.78	-60.75	0.87	6.6	6	Н	Pass

Band :		WCDMA Ba	and V			Temperature	:	22~2		
Test Mode :		RMC 12.2K	lbps Link	(QPSK)		Relative Hum	nidity:	42~4	3%	
Test Engine	er :	Hao Chen				Polarization	:	Vertic	cal	
Remark :		Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B 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)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-57.3	35 -13	-44.35	-64.96	-58.00	0.57	3.3	37	V	Pass
2510	-61.4	1 7 -13	-48.47	-66.21	-63.70	0.78	5.1	6	V	Pass
3345	-57.3	36 -13	-44.36	-65.07	-61.00	0.87	6.6	6	V	Pass

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Band :		WCDMA B	and IV			Temperature	:	22~2	3°C	
Test Mode :		RMC 12.2k	(bps Link	(QPSK)		Relative Hum	nidity :	42~4	3%	
Test Engine	er:	Hao Chen				Polarization :		Horiz	ontal	
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	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3465	-49.8	36 -13	-36.86	-63.39	-55.26	2.2	7.6	0	Н	Pass
5196	-51.3	33 -13	-38.33	-67.54	-58.11	3.12	9.9	0	Н	Pass
6930	-50.6	60 -13	-37.60	-66.26	-58.49	2.98	10.	37	Н	Pass

Band :		WCDMA B	and IV			Temperature	:	22~2		
Test Mode :		RMC 12.2k	(bps Link	(QPSK)		Relative Hum	nidity:	42~4	3%	
Test Engine	er :	Hao Chen				Polarization		Vertic	al	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore 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)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3465	-49.2	29 -13	-36.29	-63.43	-54.69	2.2	7.	3	V	Pass
5196	-52.3	30 -13	-39.30	-66.44	-59.08	3.12	9.9	9	V	Pass
6930	-50.6	64 -13	-37.64	-65.27	-58.53	2.98	10.	37	V	Pass

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Band :		WCDMA I	Band II			Temperature	:	22~2	3°C	
Test Mode :		RMC 12.2	Kbps Linl	(QPSK)		Relative Hun	nidity:	42~4	3%	
Test Engine	er :	Hao Cher	1			Polarization	:	Horiz	ontal	
Remark :		Spurious	emissions	within 30-1	1000MHz	were found m	nore tha	n 20c	IB 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)	
3759	-48.5	56 -13	-35.56	-66.01	-54.94	0.78	7.1	6	Н	Pass
5640	-46.9	99 -13	-33.99	-67.34	-55.53	1.04	9.5	8	Н	Pass
7521	-48.7	78 -13	-35.78	-66.36	-58.89	1.35	11.4	46	Н	Pass

Band :		WCDMA Ba	and II			Temperature	:	22~2	3°C	
Test Mode :		RMC 12.2K	(bps Link	(QPSK)		Relative Hum	nidity:	42~4	3%	
Test Engine	er:	Hao Chen				Polarization		Vertio	cal	
Remark :		Spurious er	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)	
3759	-50.5	53 -13	-37.53	-66.36	-56.91	0.78	7.1	6	V	Pass
5640	-50.7	79 -13	-37.79	-66.75	-59.33	1.04	9.5	8	V	Pass
7521	-50.2	22 -13	-37.22	-66.53	-60.33	1.35	11.4	46	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.

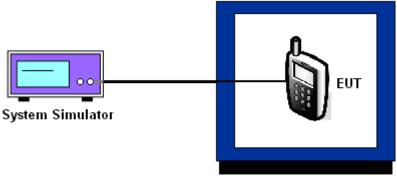
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3.8.5 Test Setup



Thermal Chamber

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3.8.6 Test Result of Temperature Variation

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

	GS	SM	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	29	0.0155	28	0.0084	
40	25	0.0108	22	0.0012	
30	23	0.0084	25	0.0048	
20(Ref.)	16	0.0000	21	0.0000	
10	22	0.0072	18	0.0036	PASS
0	18	0.0024	12	0.0108	
-10	19	0.0036	16	0.0060	
-20	16	0.0000	15	0.0072	
-30	13	0.0036	10	0.0132	

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

_	GS	SM	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	56	0.0138	47	0.0101	
40	48	0.0096	32	0.0021	
30	38	0.0043	35	0.0037	
20(Ref.)	30	0.0000	28	0.0000	
10	36	0.0032	21	0.0037	PASS
0	29	0.0005	26	0.0011	
-10	22	0.0043	-21	0.0261	
-20	31	0.0005	-28	0.0298	
-30	23	0.0037	-26	0.0287	

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		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	8	0.0191	
40	7	0.0179	
30	-6	0.0024	
20(Ref.)	-8	0.0000	
10	-8	0.0000	PASS
0	-5	0.0036	
-10	-8	0.0000	
-20	-9	0.0012	
-30	-6	0.0024	

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

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	15	0.0162	
40	13	0.0150	
30	-15	0.0012	
20(Ref.)	-13	0.0000	
10	15	0.0162	PASS
0	11	0.0139	
-10	-12	0.0006	
-20	16	0.0167	
-30	13	0.0150	

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	Channel:	9400
Limit (ppm):	within authorized band	Frequency:	1880.0 MHz

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	22	0.0239	
40	19	0.0223	
30	-21	0.0011	
20(Ref.)	-23	0.0000	
10	-16	0.0037	PASS
0	-19	0.0021	
-10	21	0.0234	
-20	17	0.0213	
-30	19	0.0223	

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)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189	GSM	4.2	18	0.0024		PASS
		3.7	15	0.0012		
		BEP	19	0.0036	2.5	
	EDGE class 8	4.2	26	0.0060	2.5	
		3.7	22	0.0012		
		BEP	19	0.0024		
	GSM	4.2	28	0.0011		
		3.7	30	0.0000		
GSM 1900		BEP	31	0.0005	(Note 2.)	
CH661	EDGE class 8	4.2	29	0.0005	(Note 3.)	
		3.7	28	0.0000		
		BEP	28	0.0000		
WCDMA Band V CH4182	RMC 12.2Kbps	4.2	-6	0.0024		
		3.7	-8	0.0000	2.5	
		BEP	-9	0.0012		
WCDMA Band IV CH1413	RMC 12.2Kbps	4.2	-15	0.0012		
		3.7	-13	0.0000	(Note 3.)	
		BEP	-13	0.0000		
WCDMA Band II CH9400	RMC 12.2Kbps	4.2	-25	0.0011		
		3.7	-22	0.0005	(Note 3.)	
	12.21000	BEP	-19	0.0021		

Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.5 V.
- 3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Feb. 13, 2015~ Feb. 27, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	May 08, 2014	Feb. 13, 2015~ Feb. 27, 2015	May 07, 2015	Conducted (TH01-SZ)
Thermal Chamber	Hongzhangroup	LP-150U	HD20120425	-40°C ~150°C	Jan. 28, 2015	Feb. 13, 2015~ Feb. 27, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Oct. 25, 2014	Mar. 01, 2015	Oct. 24, 2015	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 04, 2014	Mar. 01, 2015	May 03, 2015	Radiation (03CH01-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30Mhz-2Ghz	Sep. 13, 2014	Mar. 01, 2015	Sep. 12, 2015	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2014	Mar. 01, 2015	Nov. 07, 2015	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 08, 2014	Mar. 01, 2015	Nov. 07, 2015	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Mar. 10, 2014	Mar. 01, 2015	Mar. 09, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161073	1MHz~1GHz	May 04, 2014	Mar. 01, 2015	May 03, 2015	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02371	1GHz~26.5GHz	Oct. 28, 2014	Mar. 01, 2015	Oct. 27, 2015	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 01, 2015	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Mar. 01, 2015	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Mar. 01, 2015	NCR	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Jul. 17, 2014	Feb. 09, 2015	Jul. 16, 2015	ERP/EIRP (OTA02-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000MH z	N/A	Feb. 09, 2015	N/A	ERP/EIRP (OTA02-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	N/A	Feb. 09, 2015	N/A	ERP/EIRP (OTA02-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	N/A	Feb. 09, 2015	N/A	ERP/EIRP (OTA02-SZ)

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Uncertainty of Evaluation 5

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

	4.	
Measuring Uncertainty for a Level of	2 EAD	
Confidence of 95% (U = 2Uc(y))	2.5dB	

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