

FCC RF Test Report

APPLICANT : NetComm Wireless Limited

EQUIPMENT : 3G M2M Router BRAND NAME : NetComm Wireless

MODEL NAME : NTC-6200-03

MARKETING NAME : 3G M2M Router

FCC ID : XIA-NTC620003

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Sep. 06, 2013 and testing was completed on Feb. 22, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown to be compliant with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG380641-01	Rev. 01	Initial issue of report	Feb. 28, 2014

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4)	Conducted Output Power	N/A	PASS	-
3.1	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.2	§24.232(d)	RSS-132 (5.4) RSS-133(6.4)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§2.1049 §22.917(b) §24.238(b)	RSS-GEN(4.6.1) RSS-133(2.3)	Occupied Bandwidth	N/A	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Conducted Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1053 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 23.11 dB at 2474.000 MHz
3.7	§2.1055 §22.355 §24.235	RSS-132(5.3) RSS-133(6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

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1 General Description

1.1 Applicant

NetComm Wireless Limited

Level 2, 18-20 Orion Road Lane Cove, NSW Australia 2066

1.2 Manufacturer

NetComm Wireless Limited

Level 2, 18-20 Orion Road Lane Cove, NSW Australia 2066

1.3 Feature of Equipment Under Test

	Product Feature
Equipment	3G M2M Router
Brand Name	NetComm Wireless
Model Name	NTC-6200-03
Marketing Name	3G M2M Router
FCC ID	XIA-NTC620003
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA
EUT Stage	Identical Prototype

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

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1.4 Product Specification of Equipment Under Test

Product Specif	Product Specification subjective to this standard					
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz					
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz					
Maximum Output Power to Antenna	GSM850 : 33.26 dBm GSM1900 : 29.41 dBm WCDMA Band V : 23.34 dBm WCDMA Band II : 23.00 dBm					
Antenna Type	Dipole Antenna					
Antenna Gain	Cellular Band: 0.20 dBi PCS Band: 2.70 dBi					
Type of Modulation	GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)					

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 GPRS class 8	GMSK	1.35	0.02 ppm	250KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.33	0.05 ppm	246KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.14	0.03 ppm	4M16F9W
Part 24	GSM1900 GPRS class 8	GMSK	1.63	0.03 ppm	244KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.61	0.02 ppm	250KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.37	0.01 ppm	4M18F9W

1.7 Testing Site

Test Site	SPORTON INTERNATIONAL INC.					
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,					
Test Cita Legation	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.					
Test Site Location	TEL: +886-3-327-3456					
	FAX: +886-3-328-4978					
Took Cita No	Sporton Site No.		FCC/IC Registration No.			
Test Site No.	TH02-HY	03CH07-HY	722060/4086B-1			

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1.8 Applied Standards

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

- FCC 47 CFR Part 2, 22(H), 24(E)
- FCC KDB 412172 D01 Determining ERP and ERIP v01
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01

Remark:

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

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.

Frequency range investigated for radiated emission is as follows:

- 1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
- 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes							
Band	Radiated TCs	Conducted TCs					
GSM 850	■ GPRS class 8 Link	■ GPRS class 8 Link					
GSIVI 650	■ EDGE class 8 Link	■ EDGE class 8 Link					
CCM 4000	■ GPRS class 8 Link	■ GPRS class 8 Link					
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link					
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

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

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The conducted power tables are as follows:

Conducted Power (*Unit: dBm)								
Band		GSM850		GSM1900				
Channel	128 189 251			512	661	810		
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8		
GPRS class 8	<mark>33.26</mark>	33.22	33.07	<mark>29.41</mark>	29.01	29.25		
GPRS class 10	30.53	30.25	30.13	26.12	25.96	25.70		
GPRS class 11	28.56	28.47	28.35	24.10	23.90	23.60		
GPRS class 12	27.10	27.14	26.91	22.60	22.62	22.15		
EGPRS class 8	<mark>27.10</mark>	26.99	26.77	<mark>25.18</mark>	25.05	24.81		
EGPRS class 10	24.00	23.90	23.68	22.01	21.86	21.56		
EGPRS class 11	22.47	22.37	22.21	20.30	20.21	19.95		
EGPRS class 12	21.44	21.45	21.12	19.00	18.99	18.71		

Conducted Power (*Unit: dBm)								
Band	WCDMA Band II							
Channel	4132	4182	4233	9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6		
RMC 12.2K	23.21	<mark>23.34</mark>	23.31	22.90	23.00	22.69		
HSDPA Subtest-1	23.19	23.29	23.00	22.94	22.98	22.89		
HSDPA Subtest-2	23.00	23.25	23.20	22.88	22.83	22.71		
HSDPA Subtest-3	22.53	22.64	22.63	22.15	22.28	22.40		
HSDPA Subtest-4	22.74	22.68	22.71	22.25	22.17	22.14		
HSUPA Subtest-1	22.32	22.60	22.80	21.92	22.16	21.78		
HSUPA Subtest-2	21.18	21.29	21.49	21.08	21.33	21.58		
HSUPA Subtest-3	22.08	22.00	22.19	21.55	21.82	21.98		
HSUPA Subtest-4	21.66	21.74	21.88	21.34	21.62	21.87		
HSUPA Subtest-5	22.99	23.00	23.09	22.68	22.86	22.39		

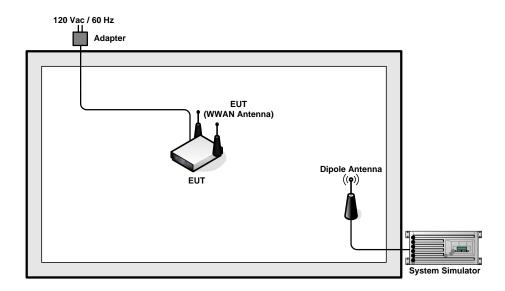
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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Adapter	Tenpao	S018KM1200150	FCC DoC	N/A	Unshielded, 1.5 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example:

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

= 4.2 + 10 = 14.2 (dB)

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3 Test Result

3.1 Conducted Output Power and ERP/EIRP Measurement

3.1.1 Description of the Conducted Output Power and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for Band 850.

The EIRP of mobile transmitters must not exceed 2 Watts for Band 1900.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

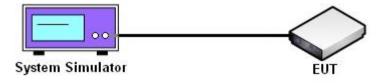
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 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 and ERP/EIRP

	Cellular Band (G _T - L _C = 0.20 dB)									
Modes	Modes GSM850 (GPRS class 8)			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 P _T (dBm)	33.26	33.22	33.07	27.10	26.99	26.77	23.21	23.34	23.31	
Conducted Power P _T (Watts)	2.12	2.10	2.03	0.51	0.50	0.48	0.21	0.22	0.21	
ERP(dBm)	31.31	31.27	31.12	25.15	25.04	24.82	21.26	21.39	21.36	
ERP(Watts)	1.35	1.34	1.29	0.33	0.32	0.30	0.13	0.14	0.14	

	PCS Band ($G_T - L_C = 2.70 \text{ dB}$)									
Modes	GSM1900 (GPRS class 8)			GSM19	000 (EDGE o	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 P _T (dBm)	29.41	29.01	29.25	25.18	25.05	24.81	22.90	23.00	22.69	
Conducted Power P _T (Watts)	0.87	0.80	0.84	0.33	0.32	0.30	0.19	0.20	0.19	
EIRP(dBm)	32.11	31.71	31.95	27.88	27.75	27.51	25.6	25.7	25.39	
EIRP(Watts)	1.63	1.48	1.57	0.61	0.60	0.56	0.36	0.37	0.35	

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

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

 L_{C} = signal attenuation in the connecting cable between the transmitter and antenna in dB

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3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

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

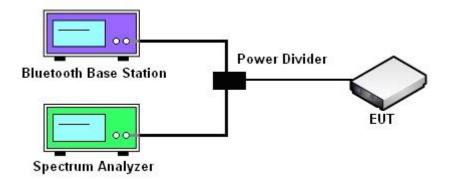
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
- 2. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector in spectrum analyzer for second trace.
 - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator synchronized with the spectrum analyzer.
- 3. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



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3.2.5 Test Result of Peak-to-Average Ratio

Cellular Band									
Modes	GSM850 (GPRS class 8)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128	189	251	128	189	251	4132	4182	4233
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(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)	0.23	0.27	0.32	2.50	2.58	2.60	3.48	3.40	3.32

PCS Band									
Modes	GSM1900 (GPRS class 8)			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)	0.23	0.27	0.28	2.72	2.83	2.68	3.20	3.24	3.16

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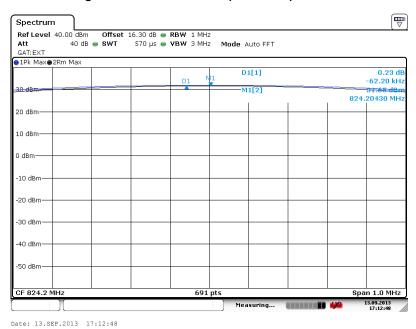
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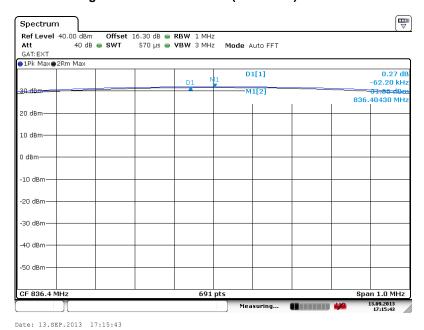
3.2.6 Test Result (Plots) of Peak-to-Average Ratio

Band :	GSM 850	Test Mode :	GPRS class 8 Link (GMSK)
Balla .	CC CCC	1000 111040 .	Of the class of Emilia (Officert)

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



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

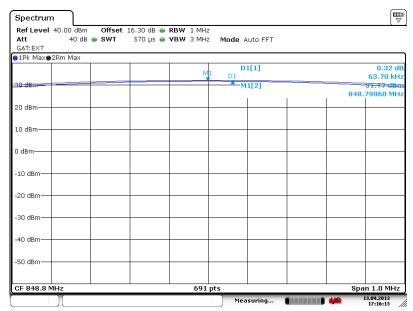


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Peak-to-Average Ratio on Channel 251 (848.8 MHz)



Date: 13.SEP.2013 17:16:13

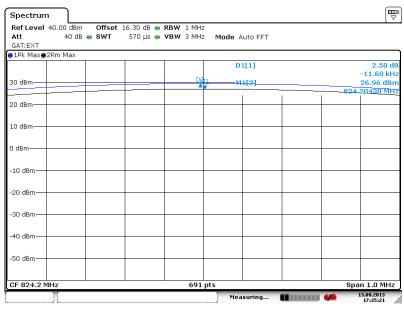
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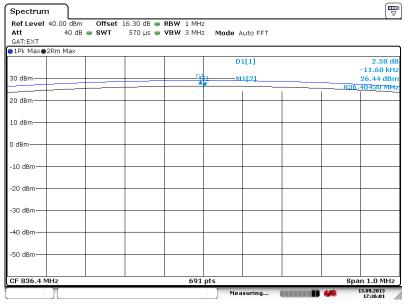


Peak-to-Average Ratio on Channel 128 (824.2 MHz)



Date: 13.SEP.2013 17:35:21

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



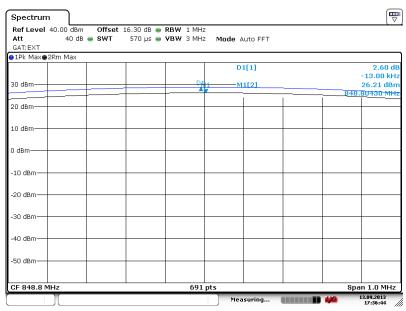
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Peak-to-Average Ratio on Channel 251 (848.8 MHz)



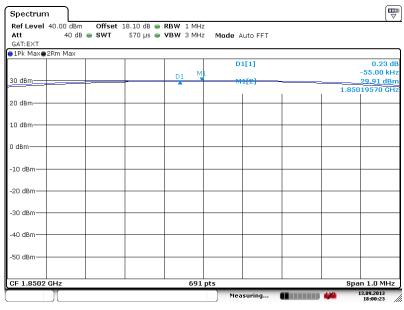
Date: 13.SEP.2013 17:36:44

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 19 of 120
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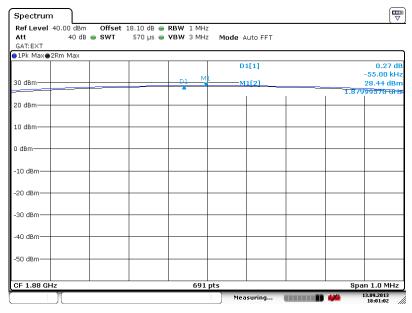


Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 13.SEP.2013 18:00:23

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

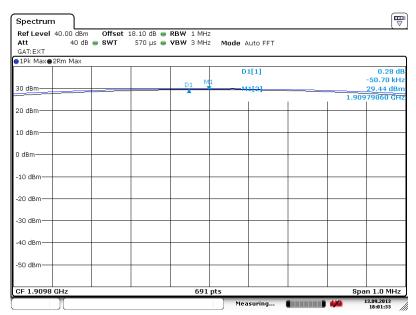


Date: 13.SEP.2013 18:01:02

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



Date: 13.SEP.2013 18:01:33

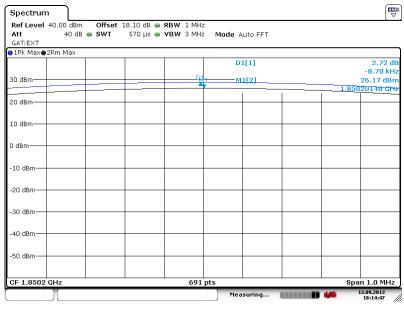
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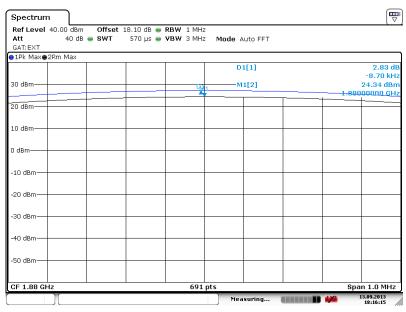


Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 13.SEP.2013 18:14:47

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

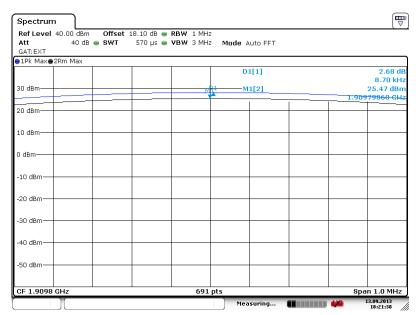


Date: 13.SEP.2013 18:16:15

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



Date: 13.SEP.2013 18:21:38

SPORTON INTERNATIONAL INC.

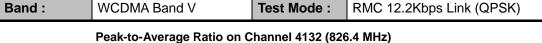
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 23 of 120
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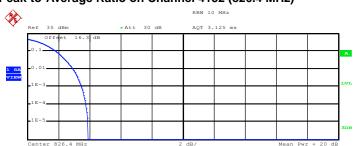
Report No.: FG380641-01



FCC RF Test Report

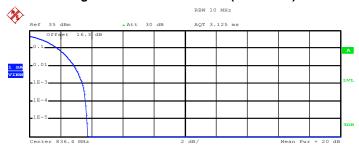
Report No.: FG380641-01





Date: 6.SEP.2013 16:09:32

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



Complementary Cumulative Distribution Function (100000 samples Trace 1

 Mean
 22.98 dBm

 Peak
 26.72 dBm

 Crest
 3.73 dB

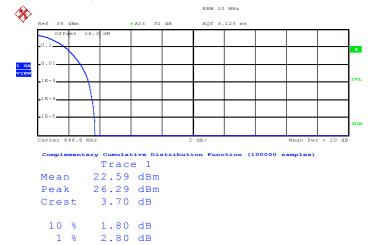
10 % 1.84 dB 1 % 2.88 dB .1 % 3.40 dB .01 % 3.60 dB

Date: 6.SEP.2013 16:10:08

SPORTON INTERNATIONAL INC.

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



Date: 6.SEP.2013 16:10:40

.01 %

3.32 dB 3.52 dB

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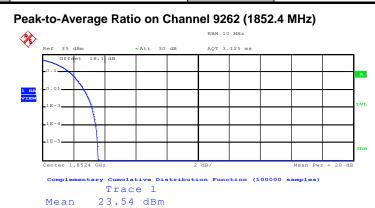
Band:

FCC RF Test Report

WCDMA Band II

RMC 12.2Kbps Link (QPSK)

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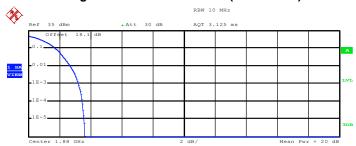


Test Mode:

Peak 27.14 dBm Crest 3.60 dB 10 % 1.76 dB 1 % 2.68 dB .1 % 3.20 dB .01 % 3.44 dB

Date: 6.SEP.2013 15:29:09

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



Complementary Cumulative Distribution Function (100000 samples)
Trace 1

Peak 26.36 dBm Crest 3.64 dB 10 % 1.72 dB 1 % 2.68 dB .1 % 3.24 dB .01 % 3.48 dB

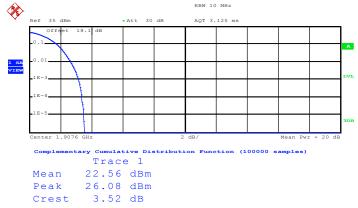
22.73 dBm

Date: 6.SEP.2013 15:30:10

SPORTON INTERNATIONAL INC.

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



10 % 1.76 dB 1 % 2.64 dB .1 % 3.16 dB .01 % 3.36 dB

Date: 6.SEP.2013 15:30:40

SPORTON INTERNATIONAL INC.

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3.3 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.3.1 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.

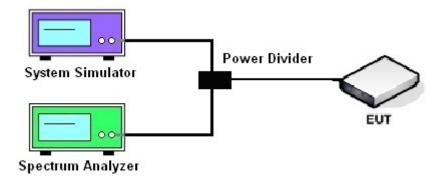
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



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3.3.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band							
Modes	GSM8	GSM850 (GPRS class 8) GSM850 (EDGE class 8)					
Ok a mara l	128	189	251	128	189	251	
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	
99% OBW (kHz)	244.00	244.00	250.00	242.00	242.00	246.00	
26dB BW (kHz)	314.00	314.00	304.00	300.00	298.00	310.00	

PCS Band								
Modes	GSM19	000 (GPRS o	000 (EDGE d	00 (EDGE class 8)				
01	512	661	810	512	661	810		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8		
99% OBW (kHz)	244.00	242.00	244.00	246.00	250.00	244.00		
26dB BW (kHz)	308.00	308.00	300.00	302.00	302.00	312.00		

Cellular Band							
Modes	WCDMA Band V (RMC 12.2Kbps)						
Channel	4132 (Low) 4182 (Mid) 4233 (High)						
Frequency (MHz)	826.4 836.4 846.6						
99% OBW (MHz)	4.14	4.16	4.16				
26dB BW (MHz)	4.68	4.66	4.68				

PCS Band							
Modes	WCDMA Band II (RMC 12.2Kbps)						
Channel	9262 (Low) 9400 (Mid) 9538 (High)						
Frequency (MHz)	1852.4 1880 1907.6						
99% OBW (MHz)	4.16	4.16	4.18				
26dB BW (MHz)	4.68	4.68	4.68				

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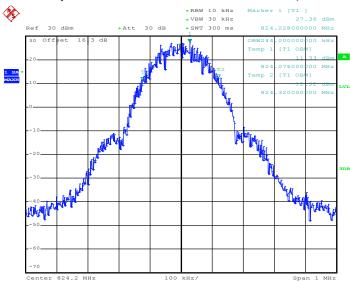
Report No.: FG380641-01



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

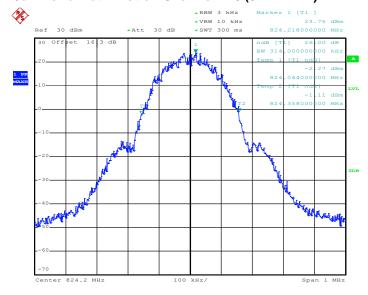
Band: GSM 850 Test Mode: GPRS class 8 Link (GMSK)

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



Date: 6.SEP.2013 17:21:26

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 6.SEP.2013 17:20:07

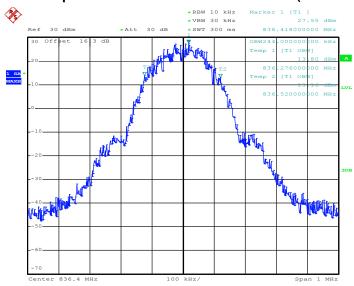
SPORTON INTERNATIONAL INC.

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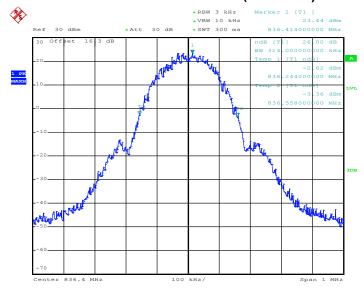






Date: 6.SEP.2013 17:21:51

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



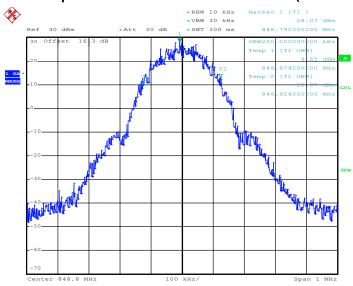
Date: 6.SEP.2013 17:20:33

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 31 of 120
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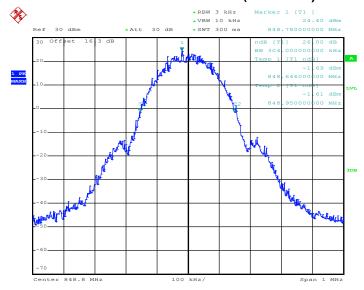


99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 6.SEP.2013 17:22:17

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



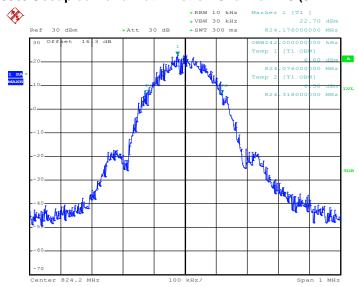
Date: 6.SEP.2013 17:20:59

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 32 of 120
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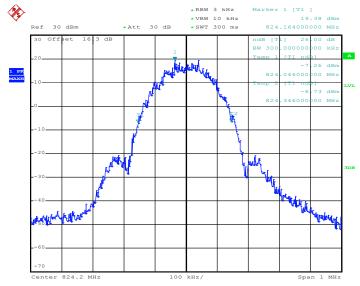
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 6.SEP.2013 17:51:10

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 6.SEP.2013 17:45:28

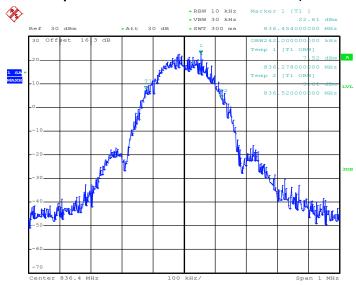
SPORTON INTERNATIONAL INC.

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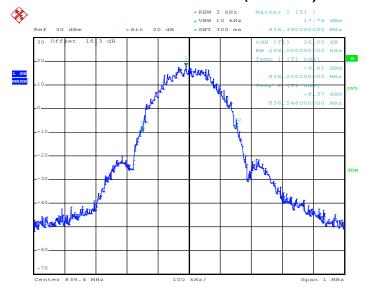






Date: 6.SEP.2013 17:47:13

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



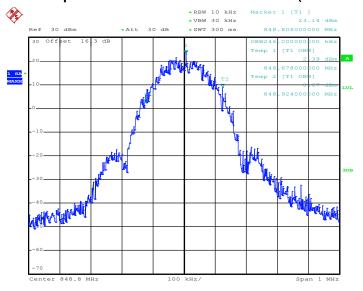
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SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 34 of 120
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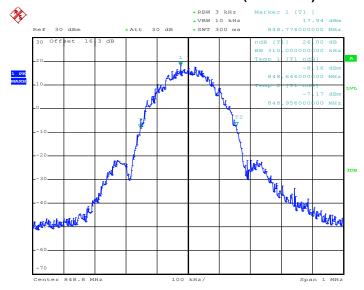


99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 6.SEP.2013 17:52:02

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 6.SEP.2013 17:46:20

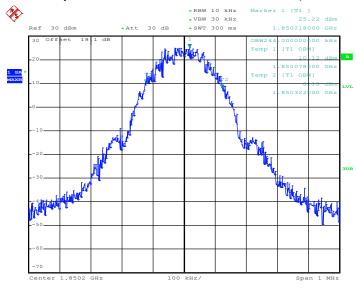
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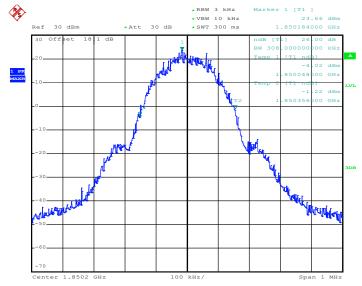


99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 6.SEP.2013 19:25:00

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



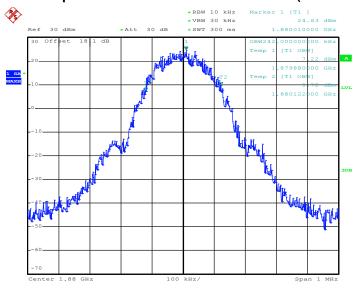
Date: 6.SEP.2013 19:18:33

SPORTON INTERNATIONAL INC.

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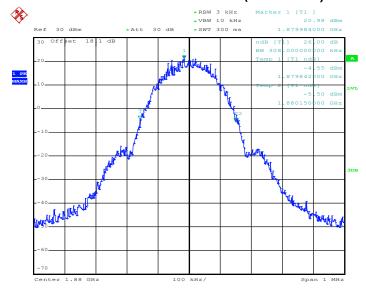


99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 6.SEP.2013 19:25:26

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 6.SEP.2013 19:18:59

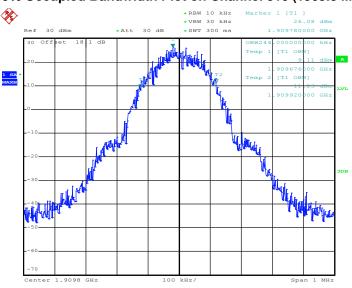
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003

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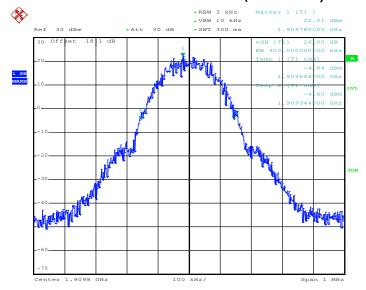


99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 6.SEP.2013 19:25:52

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 6.SEP.2013 19:19:25

SPORTON INTERNATIONAL INC.

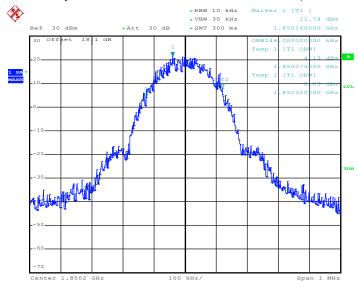
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003

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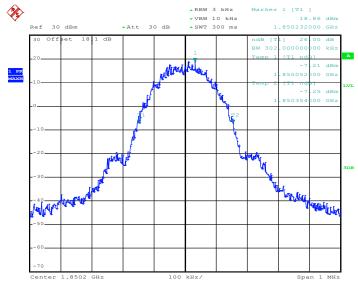


99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 6.SEP.2013 19:55:40

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



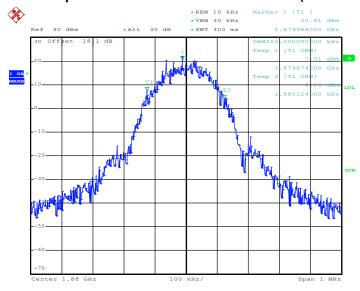
Date: 6.SEP.2013 19:50:27

SPORTON INTERNATIONAL INC.

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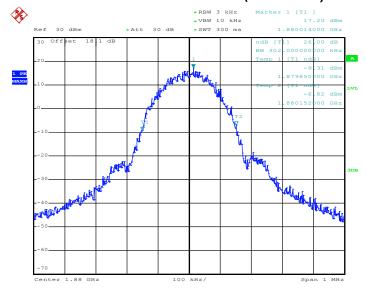


99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 6.SEP.2013 19:56:06

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 6.SEP.2013 19:50:53

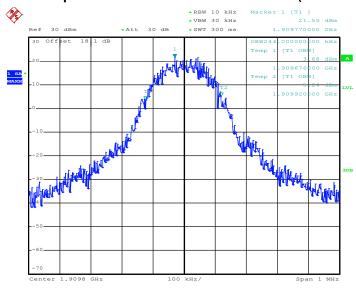
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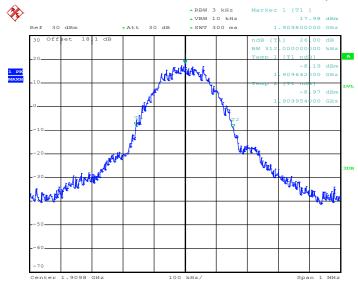


99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 6.SEP.2013 19:56:32

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 6.SEP.2013 19:51:19

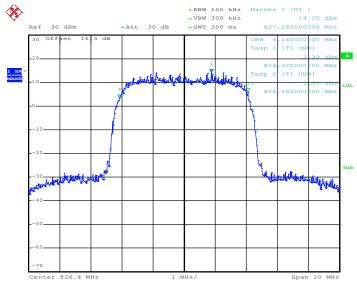
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003

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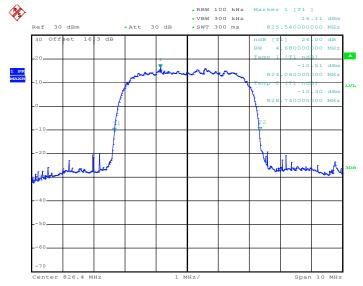


99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 6.SEP.2013 15:54:10

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)

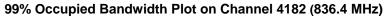


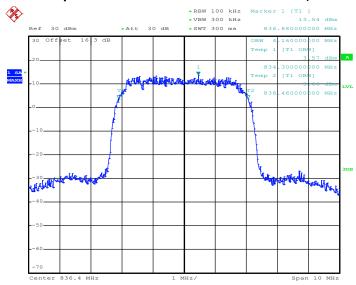
Date: 6.SEP.2013 15:52:51

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 42 of 120
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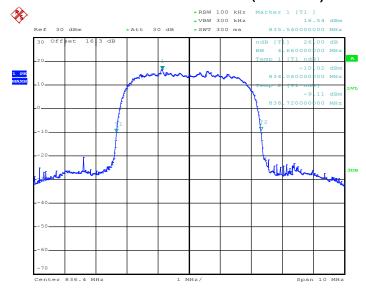






Date: 6.SEP.2013 15:54:36

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 6.SEP.2013 15:53:17

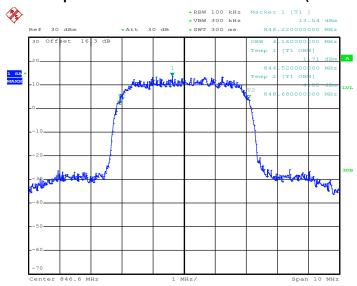
SPORTON INTERNATIONAL INC.

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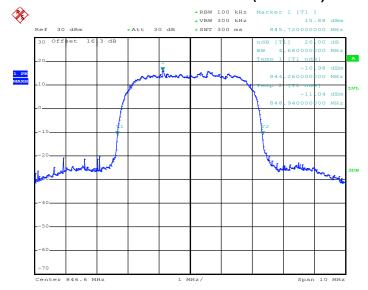


99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 6.SEP.2013 15:55:02

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



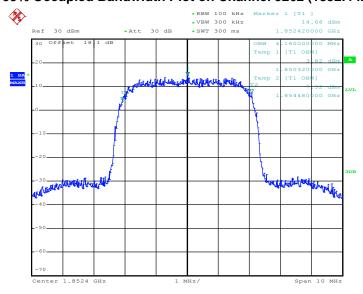
Date: 6.SEP.2013 15:53:43

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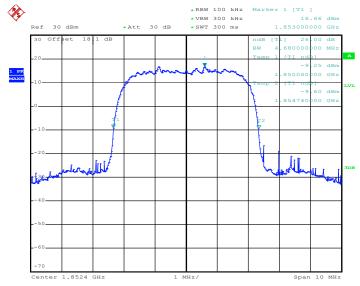
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 6.SEP.2013 15:16:17

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



Date: 6.SEP.2013 15:14:58

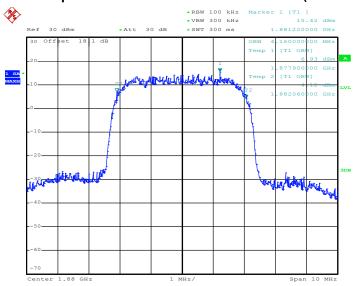
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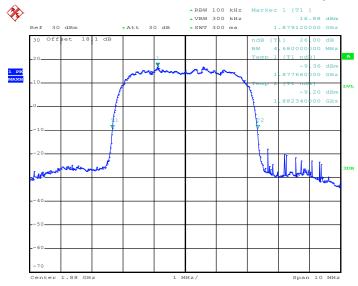


99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 6.SEP.2013 15:16:43

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 6.SEP.2013 15:15:24

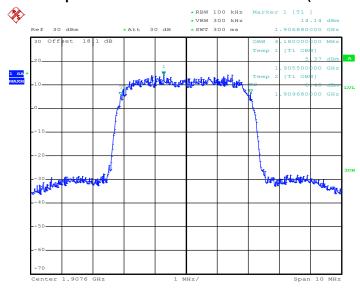
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003

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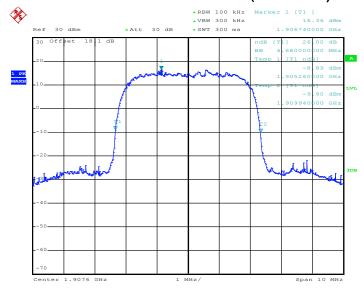


99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 6.SEP.2013 15:17:09

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 6.SEP.2013 15:15:50

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003

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3.4 Band Edge Measurement

3.4.1 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.

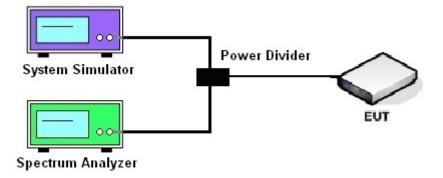
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



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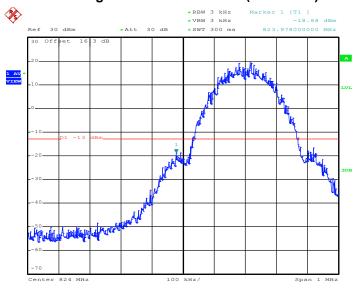
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 48 of 120
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3.4.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GPRS class 8 Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-18.48dBm	Measurement Value :	-18.68dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 6.SEP.2013 17:22:44

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)
 For example, -18.68dBm + 0.20dB = -18.48dBm

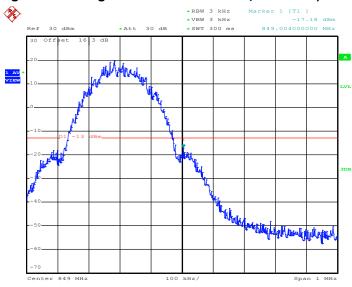
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Band :	GSM850	Test Mode :	GPRS class 8 Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-16.98dBm	Measurement Value :	-17.18dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 6.SEP.2013 17:23:10

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

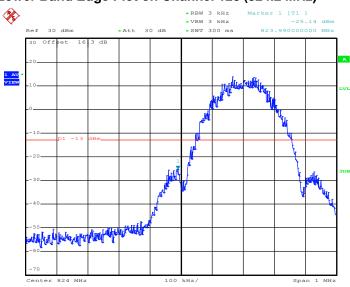
SPORTON INTERNATIONAL INC.

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Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-25.00dBm	Measurement Value :	-25.14dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 6.SEP.2013 17:50:06

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

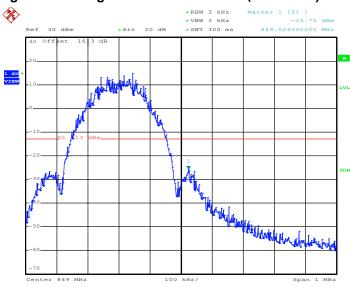
SPORTON INTERNATIONAL INC.

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Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-25.61dBm	Measurement Value :	-25.75dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 6.SEP.2013 17:50:32

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

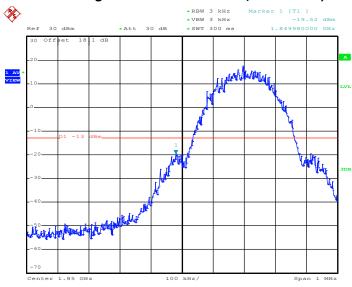
SPORTON INTERNATIONAL INC.

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Band :	GSM1900	Test Mode :	GPRS class 8 Link (GMSK)
Correction Factor :	0.11dB	Maximum 26dB Bandwidth :	0.308MHz
Band Edge :	-19.41dBm	Measurement Value :	-19.52dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 6.SEP.2013 19:23:41

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

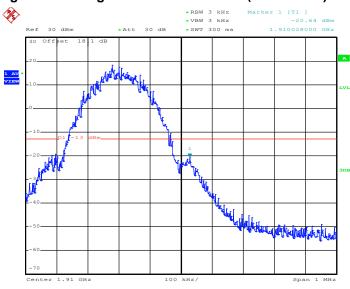
SPORTON INTERNATIONAL INC.

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Band :	GSM1900	Test Mode :	GPRS class 8 Link (GMSK)
Correction Factor :	0.11dB	Maximum 26dB Bandwidth :	0.308MHz
Band Edge :	-20.53dBm	Measurement Value :	-20.64dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 6.SEP.2013 19:21:36

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

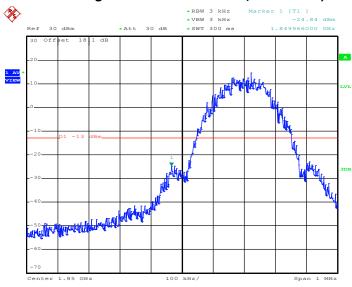
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Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-24.67dBm	Measurement Value :	-24.84dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 6.SEP.2013 19:53:04

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

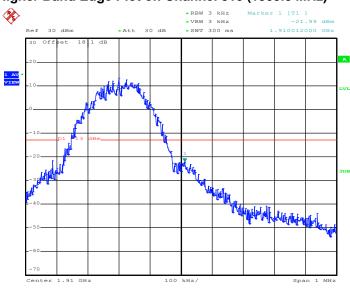
SPORTON INTERNATIONAL INC.

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Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-21.82dBm	Measurement Value :	-21.99dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 6.SEP.2013 19:53:30

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

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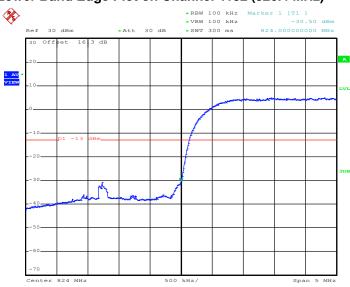
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 56 of 120
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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-33.80dBm	Measurement Value :	-30.50dBm

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Date: 6.SEP.2013 16:05:48

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

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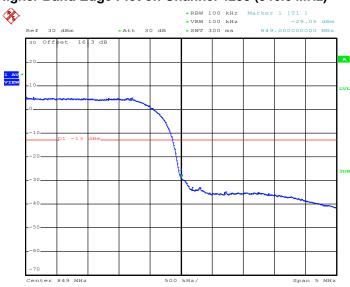
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 57 of 120
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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-32.35dBm	Measurement Value :	-29.05dBm

Higher Band Edge Plot on Channel 4233 (846.6 MHz)



Date: 6.SEP.2013 16:06:15

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

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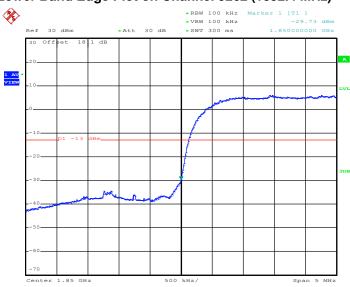
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 58 of 120
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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-33.03dBm	Measurement Value :	-29.73dBm

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 6.SEP.2013 15:17:35

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

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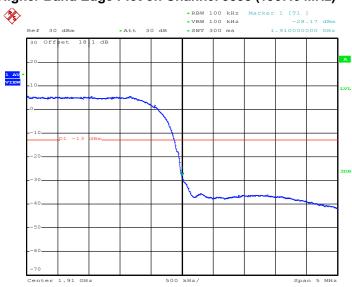
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 59 of 120
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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-31.47dBm	Measurement Value :	-28.17dBm

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 6.SEP.2013 15:18:02

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

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3.5 Conducted Spurious Emission Measurement

3.5.1 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.

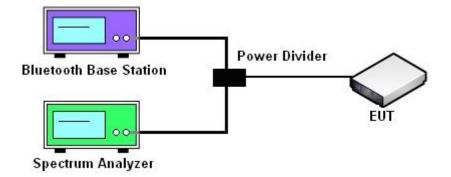
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



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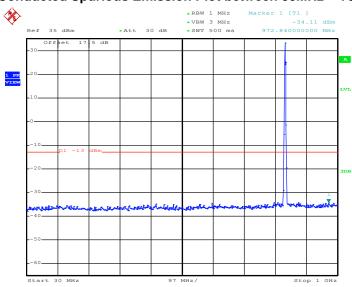
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3.5.5 Test Result (Plots) of Conducted Spurious Emission

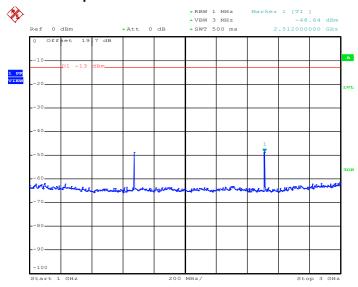
Band:	GSM850	Channel:	CH189
Test Mode :	GPRS class 8 Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 18.SEP.2013 15:46:31

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



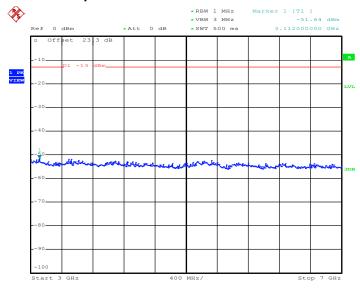
Date: 18.SEP.2013 15:46:48

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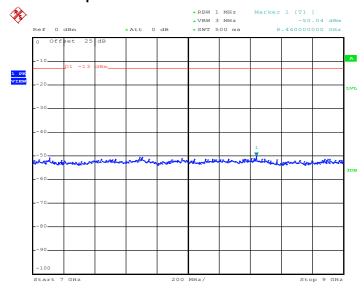






Date: 18.SEP.2013 15:47:01

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



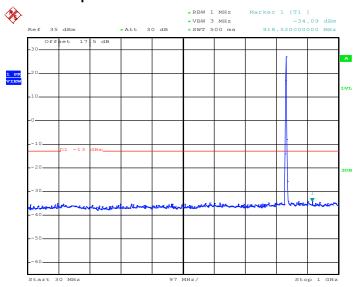
Date: 18.SEP.2013 15:47:13

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 63 of 120
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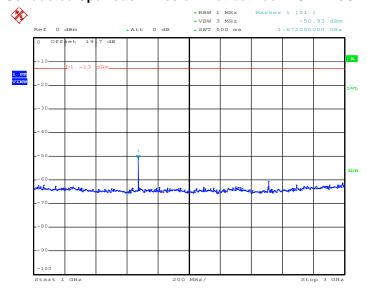
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 18.SEP.2013 16:16:58

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 18.SEP.2013 16:17:15

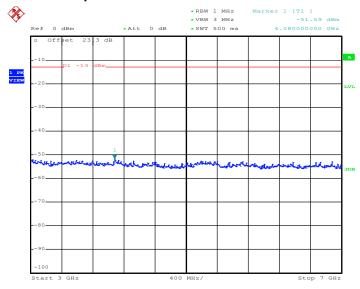
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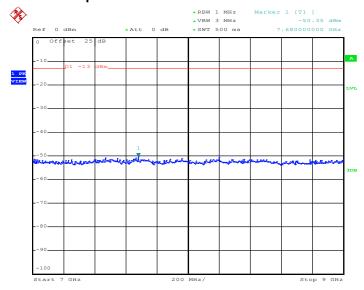






Date: 18.SEP.2013 16:17:27

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



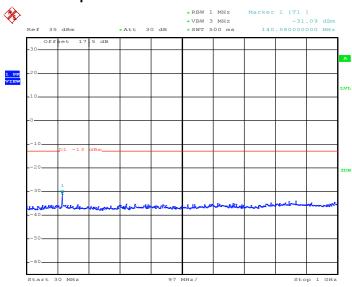
Date: 18.SEP.2013 16:17:39

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 65 of 120
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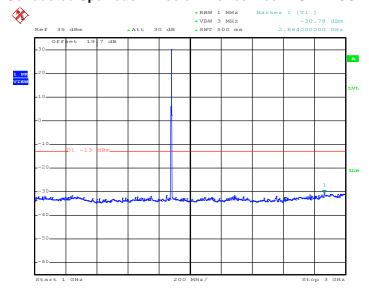
Band :	GSM1900	Channel:	CH661
Test Mode :	GPRS class 8 Link (GMSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 18.SEP.2013 16:53:31

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 18.SEP.2013 16:53:43

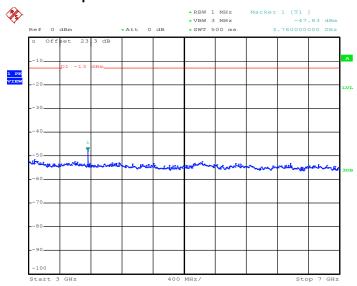
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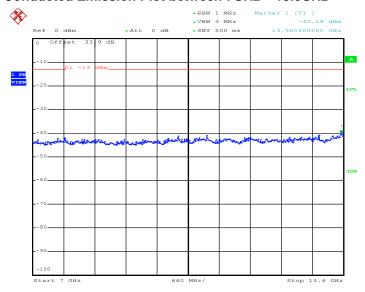


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 18.SEP.2013 16:54:00

Conducted Emission Plot between 7GHz ~ 13.6GHz

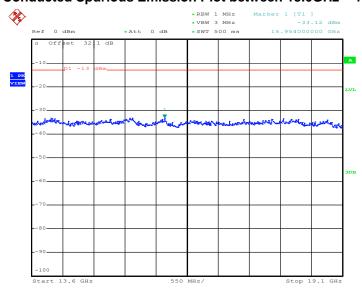


Date: 18.SEP.2013 16:54:13

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 67 of 120
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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 18.SEP.2013 16:54:25

SPORTON INTERNATIONAL INC.

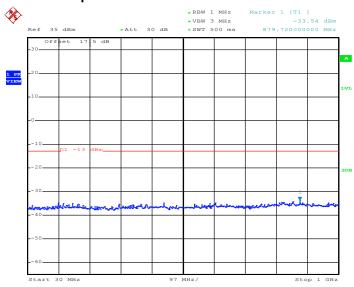
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 68 of 120
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 Band :
 GSM1900
 Channel :
 CH661

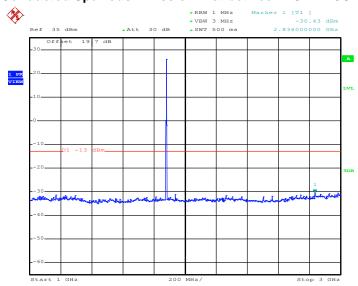
 Test Mode :
 EDGE class 8 Link (8PSK)
 Frequency :
 1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 18.SEP.2013 17:04:58

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 18.SEP.2013 17:05:11

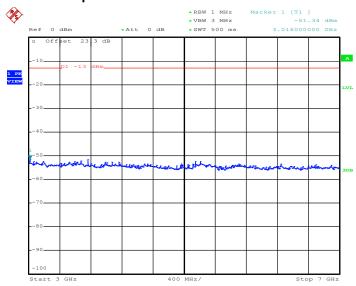
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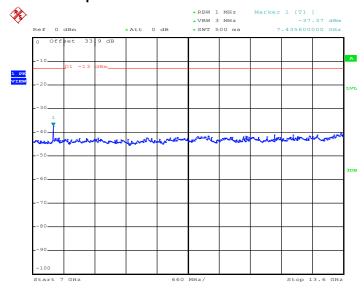


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 18.SEP.2013 17:05:27

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz

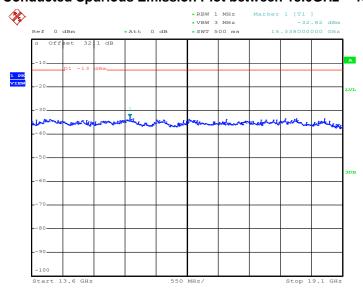


Date: 18.SEP.2013 17:05:40

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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 18.SEP.2013 17:05:52

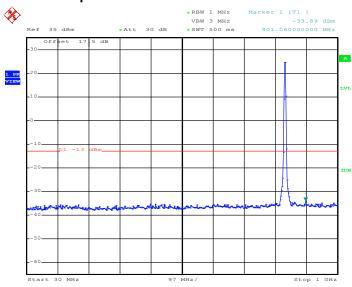
SPORTON INTERNATIONAL INC.

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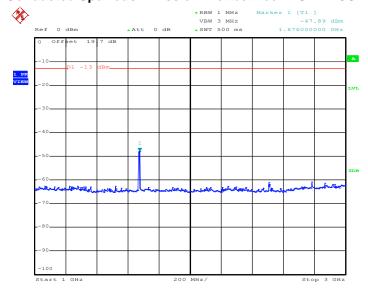
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 18.SEP.2013 17:59:45

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 18.SEP.2013 18:01:35

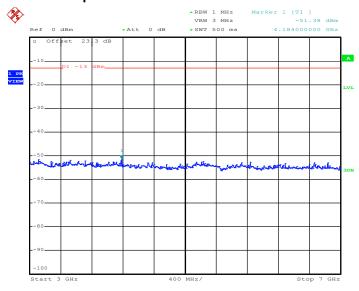
SPORTON INTERNATIONAL INC.

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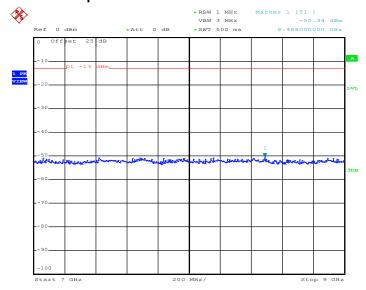


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 18.SEP.2013 18:03:14

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 18.SEP.2013 18:04:41

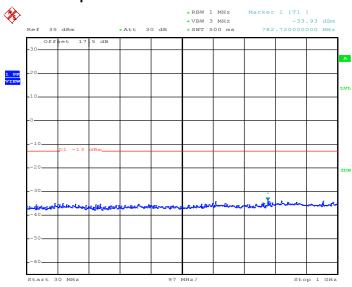
SPORTON INTERNATIONAL INC.

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 Band :
 WCDMA Band II
 Channel :
 CH9400

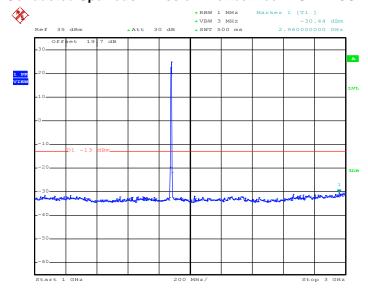
 Test Mode :
 RMC 12.2Kbps Link (QPSK)
 Frequency :
 1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 18.SEP.2013 17:31:22

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 18.SEP.2013 17:31:34

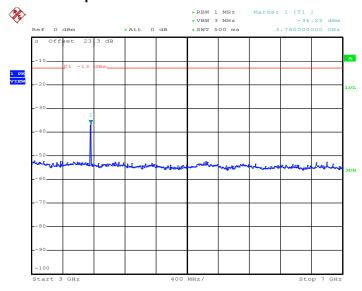
SPORTON INTERNATIONAL INC.

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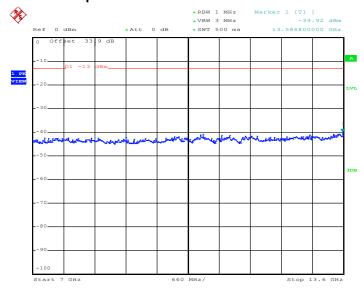


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 18.SEP.2013 17:31:59

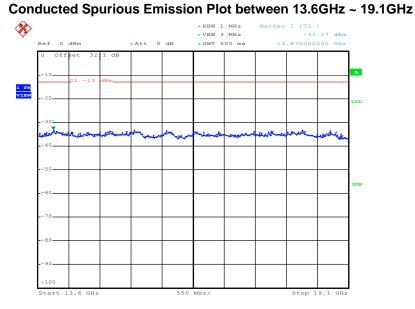
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 18.SEP.2013 17:32:11

SPORTON INTERNATIONAL INC.

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Date: 18.SEP.2013 17:32:24

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3.6 Field Strength of Spurious Radiation Measurement

3.6.1 Description of Field Strength of Spurious Radiated Measurement

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

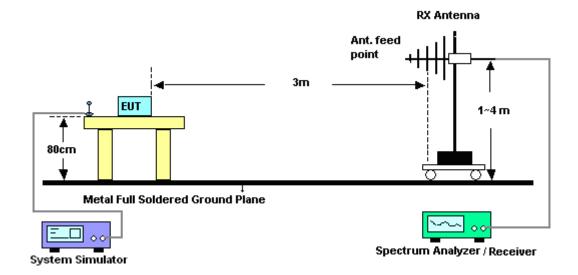
- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the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

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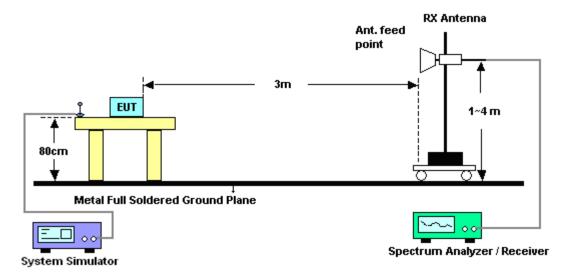


3.6.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



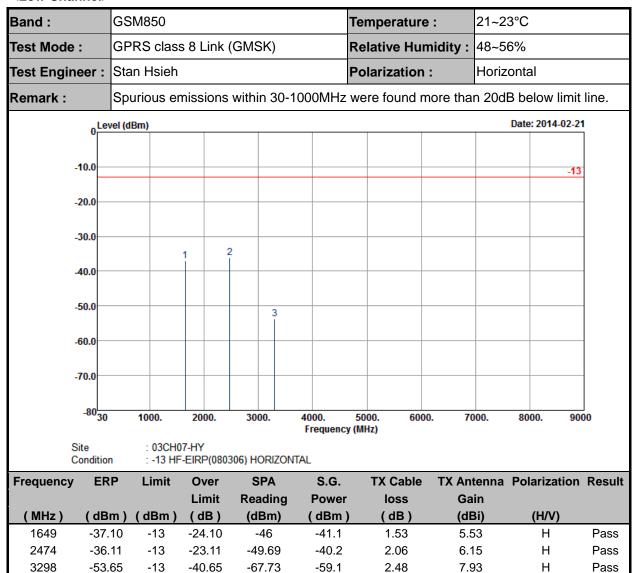
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3.6.5 Test Result of Field Strength of Spurious Radiated

<Low Channel>



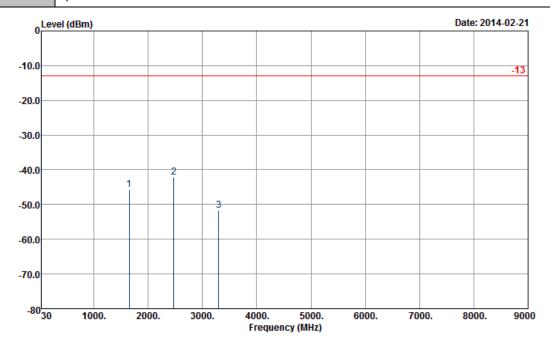
SPORTON INTERNATIONAL INC.

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Band :	GSM850	Temperature :	21~23°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Vertical

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1649	-45.70	-13	-32.70	-56.85	-49.7	1.53	5.53	V	Pass
2474	-42.11	-13	-29.11	-55.9	-46.2	2.06	6.15	V	Pass
3298	-51.65	-13	-38.65	-67.03	-57.1	2.48	7.93	V	Pass

SPORTON INTERNATIONAL INC.

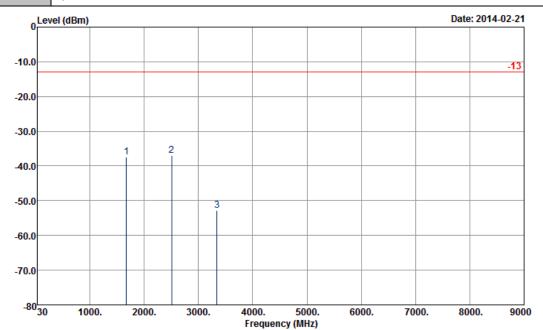
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<Middle Channel>

Band :	GSM850	Temperature :	21~23°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

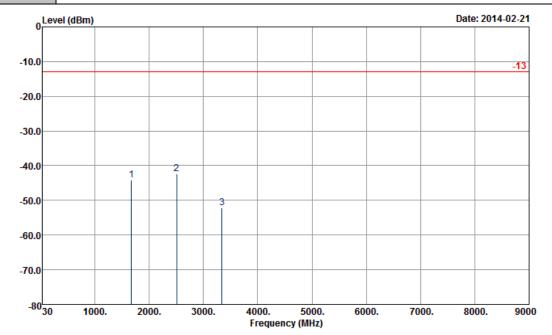
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-37.33	-13	-24.33	-46.61	-41.2	1.62	5.49	Н	Pass
2509	-36.98	-13	-23.98	-50.65	-41.1	2.1	6.22	Н	Pass
3345	-52.86	-13	-39.86	-67.1	-57.9	3.03	8.07	Н	Pass

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Report No.: FG380641-01

Band :	GSM850	Temperature :	21~23°C				
Test Mode:	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%				
Test Engineer :	Stan Hsieh	Polarization :	Vertical				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-44.23	-13	-31.23	-55.6	-48.1	1.62	5.49	V	Pass
2509	-42.28	-13	-29.28	-56.27	-46.4	2.1	6.22	V	Pass
3345	-52.06	-13	-39.06	-68.26	-57.1	3.03	8.07	V	Pass

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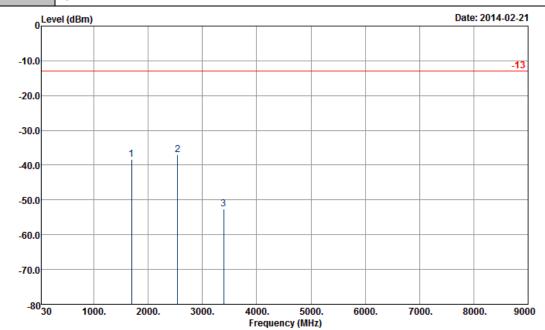
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Report No.: FG380641-01

<High Channel>

Band :	GSM850	Temperature :	21~23°C			
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%			
Test Engineer :	Stan Hsieh	Polarization :	Horizontal			
D	On the second se					

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

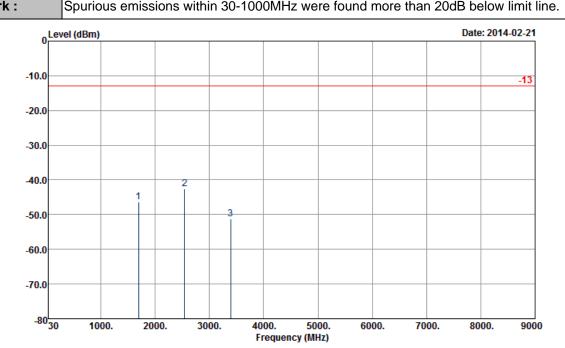
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1696	-38.22	-13	-25.22	-48.07	-42.1	1.57	5.45	Н	Pass
2544	-37.04	-13	-24.04	-51.07	-41.3	2.02	6.28	Н	Pass
3393	-52.70	-13	-39.70	-67.49	-58.6	2.3	8.20	Н	Pass

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Report No.: FG380641-01

Band :	GSM850	Temperature :	21~23°C				
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%				
Test Engineer :	Stan Hsieh	Polarization :	Vertical				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1696	-46.32	-13	-33.32	-57.86	-50.2	1.57	5.45	V	Pass
2544	-42.54	-13	-29.54	-56.94	-46.8	2.02	6.28	V	Pass
3393	-51.20	-13	-38.20	-67.61	-57.1	2.3	8.20	V	Pass

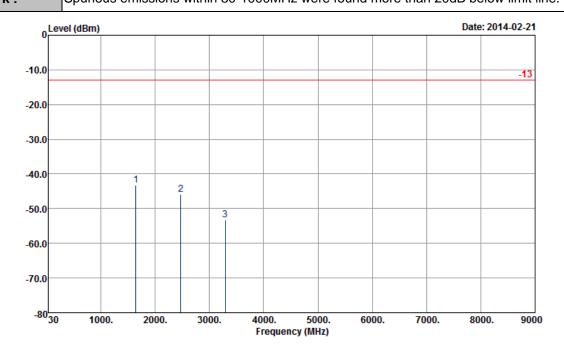
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<Low Channel>

Band :	GSM850	Temperature :	21~23°C			
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%			
Test Engineer :	Stan Hsieh	Polarization :	Horizontal			
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line					



Site : 03CH07-HY

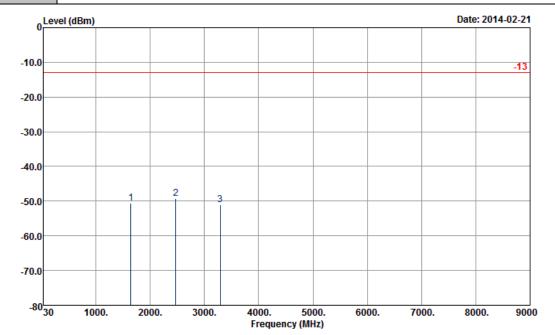
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1648	-43.32	-13	-30.32	-52.11	-47.32	1.53	5.53	Н	Pass
2473	-45.80	-13	-32.80	-59.06	-49.89	2.06	6.15	Н	Pass
3295	-53.31	-13	-40.31	-67.28	-58.76	2.48	7.93	Н	Pass

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Band :	GSM850	Temperature :	21~23°C				
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%				
Test Engineer :	Stan Hsieh	Polarization :	Vertical				
Remark ·	Sourious emissions within 30-1000MHz were found more than 20dB below limit line						



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1648	-50.48	-13	-37.48	-61.47	-54.48	1.53	5.53	V	Pass
2473	-49.33	-13	-36.33	-62.84	-53.42	2.06	6.15	V	Pass
3295	-51.06	-13	-38.06	-66.64	-56.51	2.48	7.93	V	Pass

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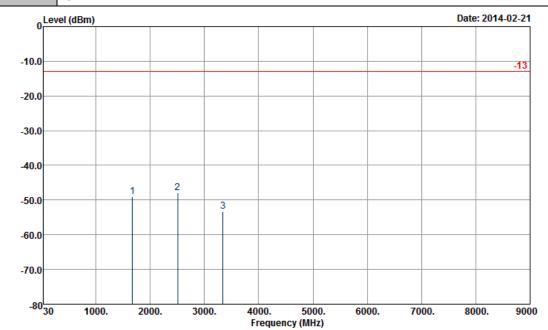
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<Middle Channel>

Band :	GSM850	Temperature :	21~23°C				
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%				
Test Engineer :	Stan Hsieh	Polarization :	Horizontal				
Damanla	Consider a socialism within 20 4000M In year found many their 20 4D below limit line						

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



Site : 03CH07-HY

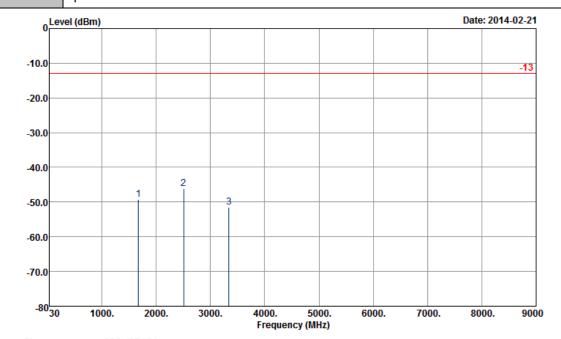
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-48.93	-13	-35.93	-58.38	-52.8	1.62	5.49	Н	Pass
2509	-47.98	-13	-34.98	-61.36	-52.1	2.1	6.22	Н	Pass
3345	-53.26	-13	-40.26	-67.95	-58.3	3.03	8.07	Н	Pass

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Band :	GSM850	Temperature :	21~23°C				
Test Mode:	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%				
Test Engineer :	Stan Hsieh	Polarization :	Vertical				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable		Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1672	-49.23	-13	-36.23	-60.91	-53.1	1.62	5.49	V	Pass
2509	-46.08	-13	-33.08	-60.2	-50.2	2.1	6.22	V	Pass
3345	-51.46	-13	-38.46	-67.26	-56.5	3.03	8.07	V	Pass

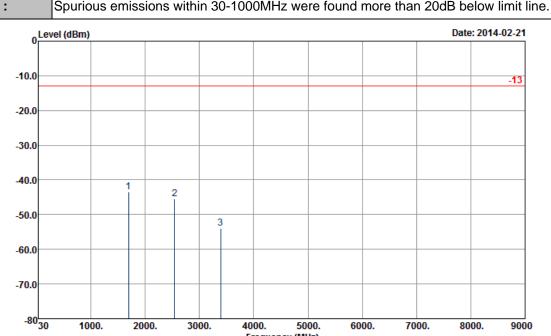
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<High Channel>

Band :	GSM850	Temperature :	21~23°C					
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%					
Test Engineer :	Stan Hsieh	Polarization :	Horizontal					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							



Site : 03CH07-HY

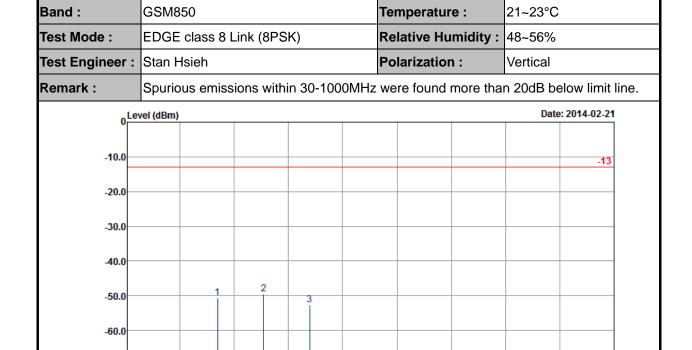
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1696	-43.51	-13	-30.51	-52.55	-47.39	1.57	5.45	Н	Pass
2545	-45.42	-13	-32.42	-58.79	-49.68	2.02	6.28	Н	Pass
3391	-53.87	-13	-40.87	-67.99	-59.77	2.3	8.20	Н	Pass

Frequency (MHz)

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Site : 03CH07-HY

1000.

-70.0

-80³⁰

Condition : -13 HF-EIRP(080306) VERTICAL

2000.

3000.

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1696	-50.50	-13	-37.50	-61.79	-54.38	1.57	5.45	V	Pass
2545	-49.49	-13	-36.49	-63.43	-53.75	2.02	6.28	V	Pass
3391	-52.62	-13	-39.62	-68.2	-58.52	2.3	8.20	V	Pass

4000.

5000.

Frequency (MHz)

6000.

7000.

8000.

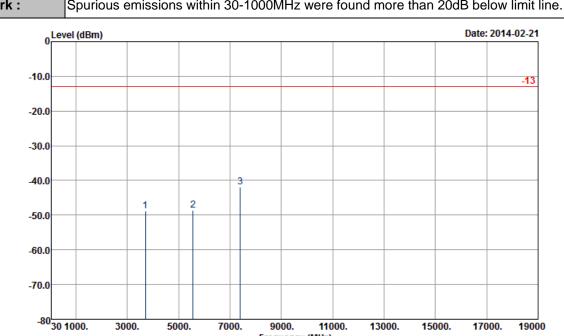
9000

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<Low Channel>

Band :	GSM1900	Temperature :	21~23°C				
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%				
Test Engineer :	Stan Hsieh	Polarization :	Horizontal				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3700	-48.85	-13	-35.85	-63.91	-55	2.59	8.74	Н	Pass
5552	-48.68	-13	-35.68	-69.54	-56.34	3.04	10.70	Н	Pass
7400	-41.94	-13	-28.94	-69.27	-50.68	3.28	12.02	Н	Pass

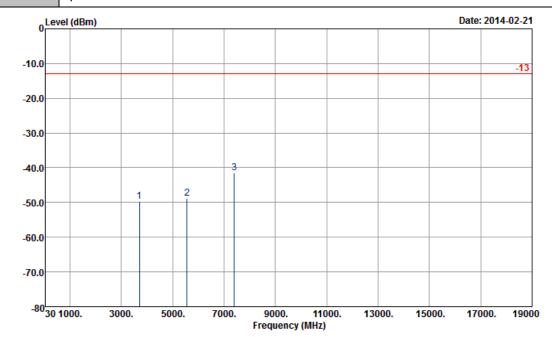
Frequency (MHz)

SPORTON INTERNATIONAL INC.

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Band :	GSM1900	Temperature :	21~23°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Vertical

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3700	-49.64	-13	-36.64	-65.74	-55.79	2.59	8.74	V	Pass
5552	-48.88	-13	-35.88	-69.23	-56.54	3.04	10.70	V	Pass
7400	-41.50	-13	-28.50	-68.49	-50.24	3.28	12.02	V	Pass

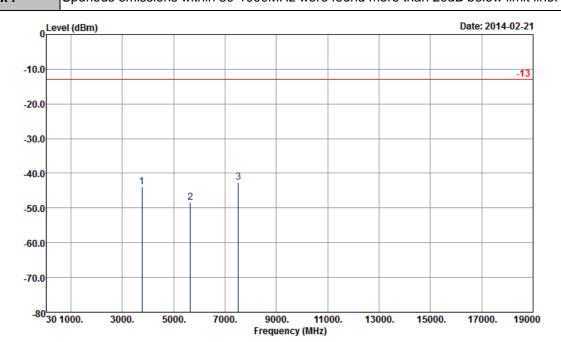
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 92 of 120
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Report Version : Rev. 01

Report No.: FG380641-01

<Middle Channel>

Band :	GSM1900	Temperature :	21~23°C				
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%				
Test Engineer :	Stan Hsieh	Polarization :	Horizontal				
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit lin						



Site : 03CH07-HY

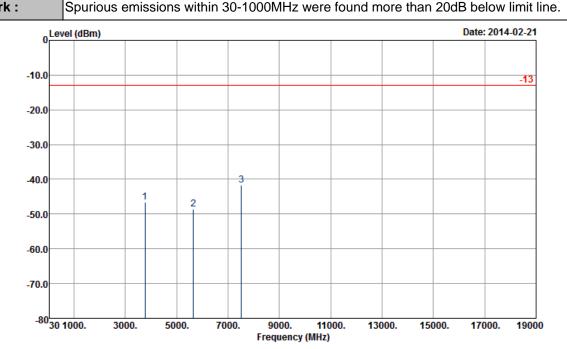
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-43.95	-13	-30.95	-59.32	-50.25	2.51	8.81	Н	Pass
5640	-48.43	-13	-35.43	-69.18	-56.14	2.99	10.70	Н	Pass
7520	-42.47	-13	-29.47	-69.74	-51	3.59	12.12	Н	Pass

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Band :	GSM1900	Temperature :	21~23°C					
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%					
Test Engineer :	Stan Hsieh	Polarization :	Vertical					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-46.68	-13	-33.68	-62.94	-52.98	2.51	8.81	V	Pass
5640	-48.60	-13	-35.60	-69.23	-56.31	2.99	10.70	V	Pass
7520	-41.60	-13	-28.60	-68.71	-50.13	3.59	12.12	V	Pass

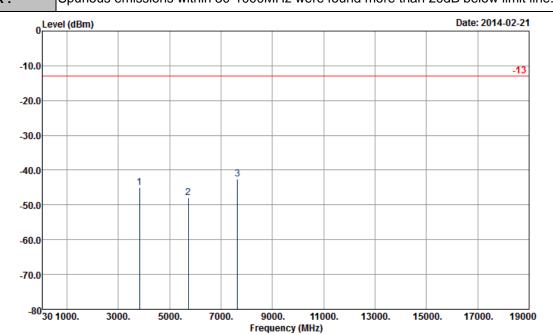
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 94 of 120
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Report Version : Rev. 01

Report No.: FG380641-01

<High Channel>

Band :	GSM1900	Temperature :	21~23°C				
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%				
Test Engineer :	Stan Hsieh	Polarization :	Horizontal				
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



Site : 03CH07-HY

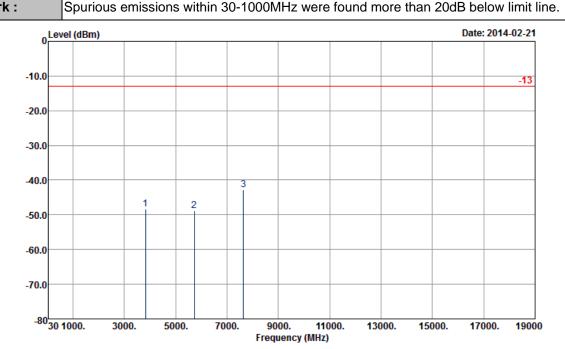
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3820	-45.03	-13	-32.03	-60.76	-51.44	2.47	8.88	Н	Pass
5728	-47.93	-13	-34.93	-69.08	-55.63	3	10.70	Н	Pass
7640	-42.51	-13	-29.51	-68.9	-51.29	3.43	12.21	Н	Pass

SPORTON INTERNATIONAL INC.

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Report Issued Date : Feb. 28, 2014
Report Version : Rev. 01

Band :	GSM1900	Temperature :	21~23°C					
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~56%					
Test Engineer :	Stan Hsieh	Polarization :	Vertical					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3820	-48.46	-13	-35.46	-64.93	-54.87	2.47	8.88	V	Pass
5728	-48.88	-13	-35.88	-69.76	-56.58	3	10.70	V	Pass
7640	-42.83	-13	-29.83	-68.97	-51.61	3.43	12.21	V	Pass

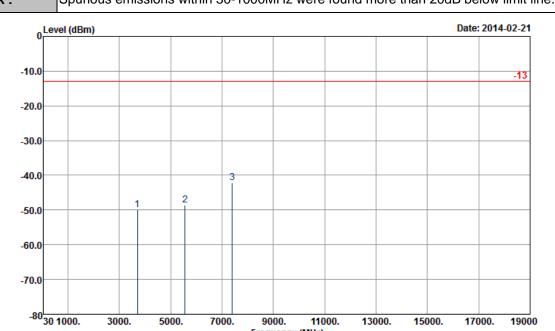
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 96 of 120
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Report Version : Rev. 01

Report No.: FG380641-01

<Low Channel>

Band :	GSM1900	Temperature :	21~23°C				
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%				
Test Engineer :	Stan Hsieh	Polarization :	Horizontal				
Romark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

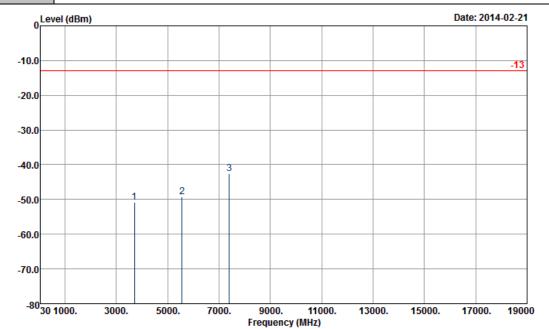
Frequenc	y EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3700	-49.86	-13	-36.86	-64.98	-56.01	2.59	8.74	Н	Pass
5552	-48.68	-13	-35.68	-69.14	-56.34	3.04	10.70	Н	Pass
7400	-42.21	-13	-29.21	-69.44	-50.95	3.28	12.02	Н	Pass

Frequency (MHz)

SPORTON INTERNATIONAL INC.

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Report Version : Rev. 01

Band :	GSM1900	Temperature :	21~23°C					
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%					
Test Engineer :	Stan Hsieh	Polarization :	Vertical					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3700	-50.72	-13	-37.72	-66.78	-56.87	2.59	8.74	V	Pass
5552	-49.34	-13	-36.34	-69.46	-57	3.04	10.70	V	Pass
7400	-42.67	-13	-29.67	-69.62	-51.41	3.28	12.02	V	Pass

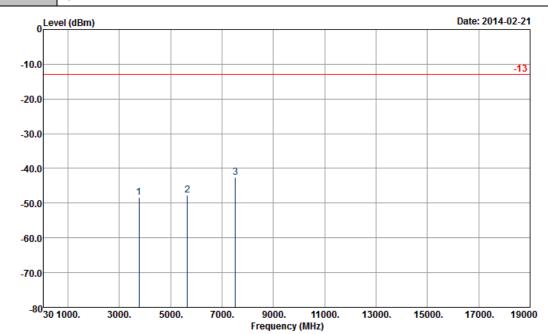
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 98 of 120
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Report Version : Rev. 01

<Middle Channel>

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
_			

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

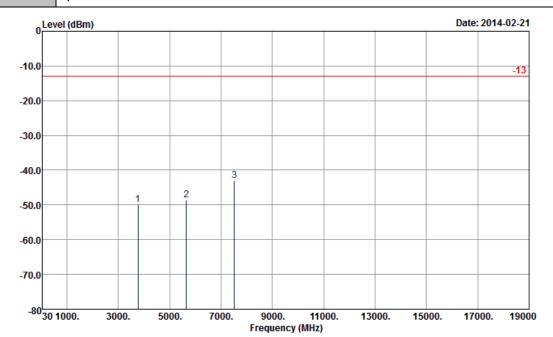
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-48.46	-13	-35.46	-63.88	-54.76	2.51	8.81	Н	Pass
5640	-47.66	-13	-34.66	-68.65	-55.37	2.99	10.70	Н	Pass
7520	-42.48	-13	-29.48	-69.81	-51.01	3.59	12.12	Н	Pass

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 99 of 120
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Report Version : Rev. 01

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Vertical

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-49.88	-13	-36.88	-66.18	-56.18	2.51	8.81	V	Pass
5640	-48.58	-13	-35.58	-69.19	-56.29	2.99	10.70	V	Pass
7520	-42.92	-13	-29.92	-69.83	-51.45	3.59	12.12	V	Pass

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 100 of 120
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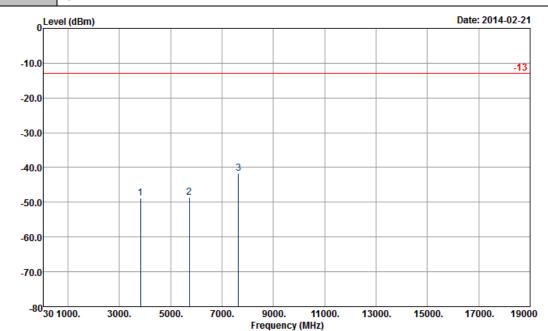
Report No.: FG380641-01



<High Channel>

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
		•	

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3820	-48.71	-13	-35.71	-64.34	-55.12	2.47	8.88	Н	Pass
5728	-48.66	-13	-35.66	-69.76	-56.36	3	10.70	Н	Pass
7640	-41.70	-13	-28.70	-68.09	-50.48	3.43	12.21	Н	Pass

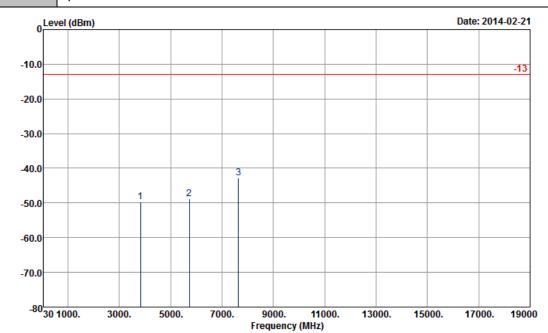
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 101 of 120
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Report No.: FG380641-01

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Vertical

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3820	-49.61	-13	-36.61	-66.18	-56.02	2.47	8.88	V	Pass
5728	-48.84	-13	-35.84	-69.69	-56.54	3	10.70	V	Pass
7640	-42.73	-13	-29.73	-68.92	-51.51	3.43	12.21	V	Pass

SPORTON INTERNATIONAL INC.

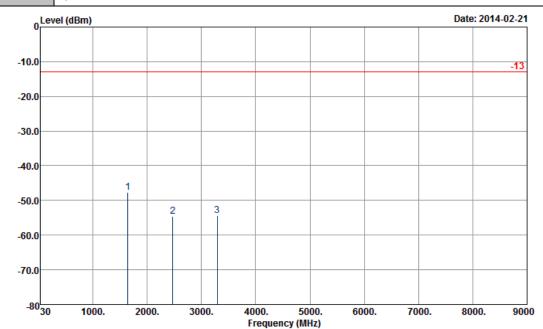
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 102 of 120
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Report No.: FG380641-01

<Low Channel>

Band :	WCDMA Band V	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal

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



Site : 03CH07-HY

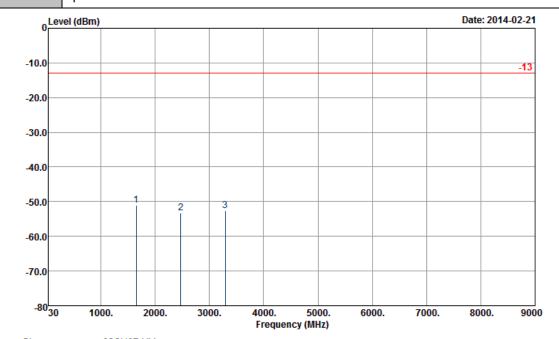
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1648	-47.78	-13	-34.78	-56.54	-51.78	1.53	5.53	Н	Pass
2473	-54.55	-13	-41.55	-67.98	-58.64	2.06	6.15	Н	Pass
3295	-54.38	-13	-41.38	-68.27	-59.83	2.48	7.93	Н	Pass

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 103 of 120
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Band :	WCDMA Band V	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz	were found more tha	n 20dB below limit line.



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1651	-51.10	-13	-38.10	-62.08	-55.1	1.53	5.53	V	Pass
2473	-53.33	-13	-40.33	-66.96	-57.42	2.06	6.15	V	Pass
3295	-52.67	-13	-39.67	-68.33	-58.12	2.48	7.93	V	Pass

SPORTON INTERNATIONAL INC.

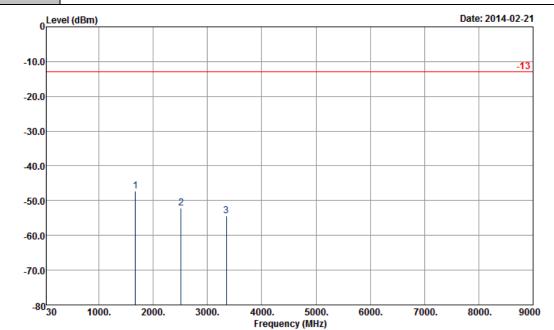
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 104 of 120
Report Issued Date : Feb. 28, 2014
Report Version : Rev. 01

Report No.: FG380641-01

<Middle Channel>

Band :	WCDMA Band V	Temperature :	21~23°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%						
Test Engineer :	Stan Hsieh	Polarization :	Horizontal						
Domark :	courious amissions within 30-1000MHz were found more than 20dB below limit line								

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1675	-47.26	-13	-34.26	-56.19	-51.13	1.62	5.49	Н	Pass
2512	-52.07	-13	-39.07	-65.29	-56.19	2.1	6.22	Н	Pass
3349	-54.31	-13	-41.31	-68.36	-59.35	3.03	8.07	Н	Pass

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 105 of 120
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Limit

(dB)

-37.91

-40.88

-39.72

(dBm) (dBm)

-13

-13

-13

-50.91

-53.88

-52.72

(MHz)

1672

2512

3349

Reading

(dBm)

-61.97

-67.58

-68.31

Report	No.	: F	G38	064	1-0	1
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Band :	WCDI						Tempe	rature :		21~23°C	;	
Test Mode :	RMC						Relative Humidity :			48~56%		
Test Engineer :	Stan F	Hsieh					Polariz	ation :		Vertical		
Remark :	Spurio	us em	nissions	within	30-100	0MHz	were fo	ound mo	re tha	n 20dB b	elow limit	line.
0 Le	evel (dBm)									Dat	e: 2014-02-2	1
-10.0											-13	
-20.0												
-30.0												
-40.0												
-50.0			1	2	3							
-60.0												
-70.0												
-80 <mark>3</mark> 0) 10	00.	2000.	3000.		00. equency	5000. / (MHz)	6000.	70	000. 80	000. 90	
Site Condition		03CH07 -13 HF-	7-HY EIRP(080:	306) VER	TICAL							
Frequency Ef	RP L	imit	Over	SPA	4	S.G.	TX	Cable	TX An	tenna Po	larization	Resu

Power

(dBm)

-54.78

-58

-57.76

loss

(dB)

1.62

2.1

3.03

Gain

(dBi)

5.49

6.22

8.07

(H/V)

٧

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Pass

Pass

Pass

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 : Feb. 28, 2014

 FAX: 886-3-328-4978
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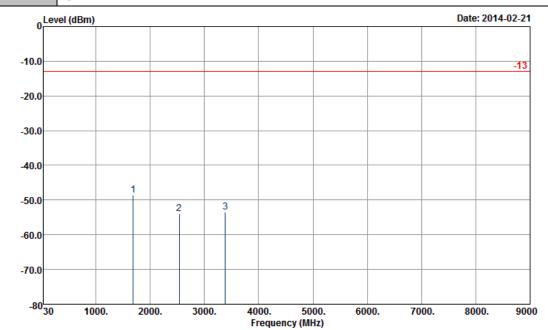
FCC ID: XIA-NTC620003



<High Channel>

Band :	WCDMA Band V	Temperature :	21~23°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%						
Test Engineer :	Stan Hsieh	Polarization :	Horizontal						
Domork .	Courious amissions within 20 1000MHz	aurious amissions within 20 1000MHz were found more than 20dD below limit line							

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

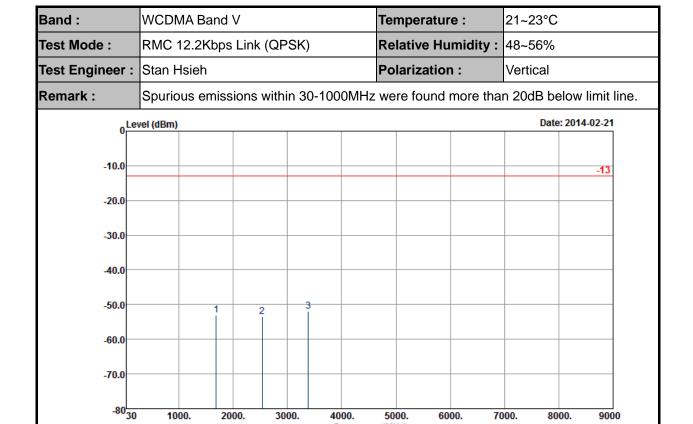
Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1690	-48.56	-13	-35.56	-57.64	-52.44	1.57	5.45	Н	Pass
2539	-53.93	-13	-40.93	-67.23	-58.19	2.02	6.28	Н	Pass
3385	-53.45	-13	-40.45	-67.46	-59.35	2.3	8.20	Н	Pass

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 107 of 120
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	4



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1690	-53.10	-13	-40.10	-64.39	-56.98	1.57	5.45	V	Pass
2539	-53.41	-13	-40.41	-67.37	-57.67	2.02	6.28	V	Pass
3385	-51.84	-13	-38.84	-67.43	-57.74	2.3	8.20	V	Pass

Frequency (MHz)

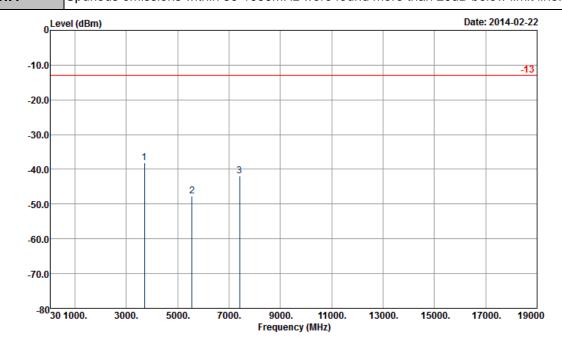
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-NTC620003 Page Number : 108 of 120
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Report No. : FG380641-01

<Low Channel>

Band :	WCDMA Band II	Temperature :	21~23°C					
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%					
Test Engineer :	Stan Hsieh	Polarization :	Horizontal					
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line							



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequ	uency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
				Limit	Reading	Power	loss	Gain		
(M	Hz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
37	'04	-38.14	-13	-25.14	-53.29	-44.29	2.59	8.74	Н	Pass
55	50	-47.68	-13	-34.68	-68.19	-55.34	3.04	10.70	Н	Pass
74	04	-41.89	-13	-28.89	-69.24	-50.63	3.28	12.02	Н	Pass

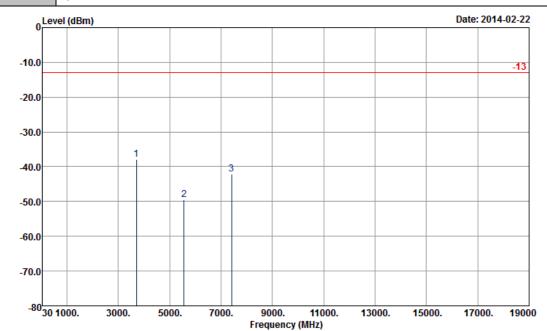
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Band :	WCDMA Band II	Temperature :	21~23°C					
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%					
Test Engineer :	Stan Hsieh	Polarization :	Vertical					
Domork .	Courious emissions within 20 4000MHz were found more than 20dP helaw limit line							

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3700	-37.82	-13	-24.82	-53.93	-43.97	2.59	8.74	V	Pass
5552	-49.47	-13	-36.47	-69.8	-57.13	3.04	10.70	V	Pass
7408	-42.07	-13	-29.07	-69.1	-50.81	3.28	12.02	V	Pass

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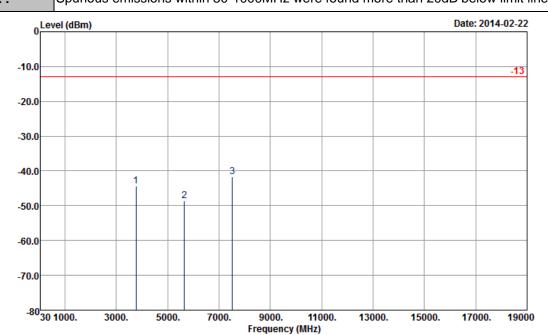
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<Middle Channel>

Band :	WCDMA Band II	Temperature :	21~23°C					
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%					
Test Engineer :	Stan Hsieh	Polarization :	Horizontal					
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line							



Site : 03CH07-HY

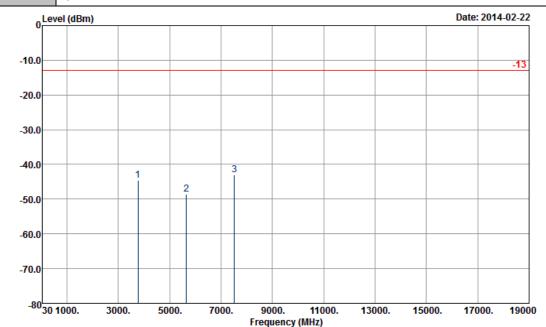
Condition : -13 HF-EIRP(080306) HORIZONTAL

F	requency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
				Limit	Reading	Power	loss	Gain		
	(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
	3760	-44.25	-13	-31.25	-59.61	-50.55	2.51	8.81	Н	Pass
	5640	-48.58	-13	-35.58	-69.37	-56.29	2.99	10.70	Н	Pass
	7520	-41.65	-13	-28.65	-68.9	-50.18	3.59	12.12	Н	Pass

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Band :	WCDMA Band II	Temperature :	21~23°C					
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%					
Test Engineer :	Stan Hsieh	Polarization :	Vertical					
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line							



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-44.64	-13	-31.64	-60.93	-50.94	2.51	8.81	V	Pass
5640	-48.61	-13	-35.61	-69.27	-56.32	2.99	10.70	V	Pass
7520	-42.94	-13	-29.94	-69.79	-51.47	3.59	12.12	V	Pass

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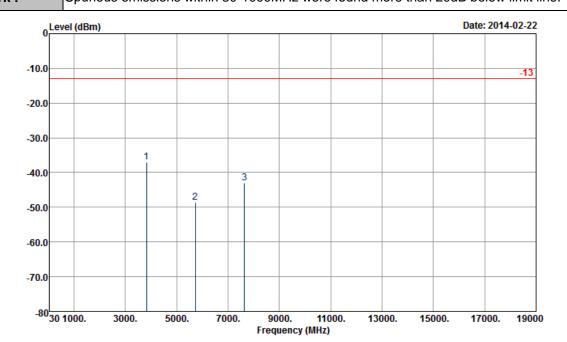
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<High Channel>

Band :	WCDMA Band II	Temperature :	21~23°C					
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%					
Test Engineer :	Stan Hsieh	Polarization :	Horizontal					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line							



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) HORIZONTAL

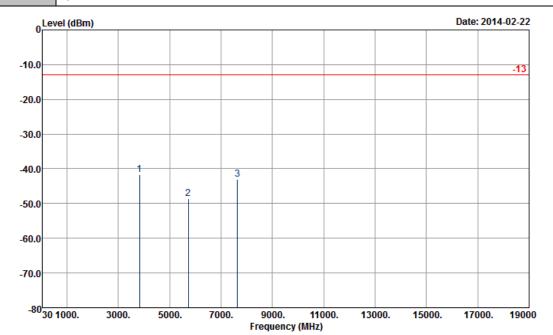
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3816	-37.08	-13	-24.08	-52.63	-43.49	2.47	8.88	Н	Pass
5724	-48.68	-13	-35.68	-69.77	-56.38	3	10.70	Н	Pass
7632	-43.11	-13	-30.11	-69.52	-51.89	3.43	12.21	Н	Pass

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Band :	WCDMA Band II	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~56%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
		·	·

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



Site : 03CH07-HY

Condition : -13 HF-EIRP(080306) VERTICAL

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3816	-41.72	-13	-28.72	-58.24	-48.13	2.47	8.88	V	Pass
5724	-48.59	-13	-35.59	-69.55	-56.29	3	10.70	V	Pass
7632	-43.03	-13	-30.03	-69.35	-51.81	3.43	12.21	V	Pass

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3.7 **Frequency Stability Measurement**

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.

3.7.2 Measuring Instruments

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

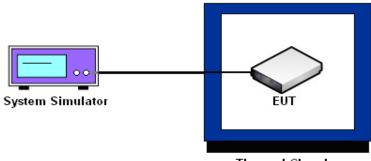
3.7.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. 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.
- With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized 3. at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- The variation in frequency was measured for the worst case.

3.7.5 Test Setup



Thermal Chamber

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3.7.6 Test Result of Temperature Variation

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

	GPRS	class 8	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-16	-0.02	43	0.05	
-20	-14	-0.02	39	0.05	
-10	-13	-0.02	34	0.04	
0	-11	-0.01	36	0.04	
10	-10	-0.01	33	0.04	PASS
20	-12	-0.01	31	0.04	
30	-13	-0.02	35	0.04	
40	-13	-0.02	38	0.04	
50	-15	-0.02	41	0.05	

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

_ ,	GPRS	class 8	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	53	0.03	40	0.02	
-20	49	0.03	36	0.02	
-10	45	0.02	-28	-0.01	
0	51	0.03	-30	-0.02	
10	46	0.02	-27	-0.01	PASS
20	44	0.02	-29	-0.02	
30	48	0.03	-31	-0.02	
40	47	0.02	-35	-0.02	
50	52	0.03	36	0.02	

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

	RMC 12	RMC 12.2Kbps		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result	
-30	-28	-0.03		
-20	-25	-0.03		
-10	-22	-0.03		
0	-25	-0.03		
10	-18	-0.02	PASS	
20	-20	-0.02		
30	-19	-0.02		
40	-23	-0.03		
50	-26	-0.03		

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

T	RMC 12	RMC 12.2Kbps		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result	
-30	-20	-0.01		
-20	-17	-0.01		
-10	-18	-0.01		
0	-16	-0.01		
10	-14	-0.01	PASS	
20	-15	-0.01		
30	-15	-0.01		
40	-18	-0.01		
50	-20	-0.01		

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3.7.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
	0.000	12	-12	-0.01		
	GPRS class 8	8	-12	-0.01		
GSM 850	01433 0	40	-10	-0.01		
CH189		12	-26	-0.03		
	EDGE class 8	8	-28	-0.03		PASS
	01033 0	40	-29	-0.03		
	GPRS class 8	12	45	0.02		
		8	47	0.02	2.5	
GSM 1900		40	44	0.02		
CH661	EDGE class 8	12	-34	-0.02		
		8	-34	-0.02		
		40	-29	-0.02		
14/00144 5 11/		12	-19	-0.02		
WCDMA Band V CH4182	RMC 12.2Kbps	8	-22	-0.03		
	12.2100	40	-20	-0.02		
14/OD144 D		12	-15	-0.01		
WCDMA Band II CH9400	RMC	8	-16	-0.01		
0119400	12.2Kbps	40	-14	-0.01		

Note: Normal Voltage = 12V.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
System Simulator	Rohde & Schwarz	CMU200	117995	N/A	Aug. 01, 2013	Sep. 06, 2013~ Sep. 18, 2013	Jul. 31, 2014	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 07, 2013	Sep. 06, 2013~ Sep. 18, 2013	Jun. 06, 2014	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Jul. 19, 2013	Sep. 06, 2013~ Sep. 18, 2013	Jul. 18, 2014	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9KHz ~ 30GHz	Nov. 20, 2013	Feb. 21, 2014~ Feb. 22. 2014	Nov. 19, 2014	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 10, 2013	Feb. 21, 2014~ Feb. 22, 2014	Oct. 09, 2014	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 22, 2013	Feb. 21, 2014~ Feb. 22, 2014	Aug. 21, 2014	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 03, 2013	Feb. 21, 2014~ Feb. 22. 2014	Oct. 02, 2014	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	30MHz~1GHz	Feb. 26, 2013	Feb. 21, 2014~ Feb. 22. 2014	Feb. 25, 2014	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1 GHz~26.5 GHz	Nov. 29, 2013	Feb. 21, 2014~ Feb. 22, 2014	Nov. 28, 2014	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	Feb. 21, 2014~ Feb. 22, 2014	N/A	Radiation (03CH07-HY)
Antenna Mast	ChainTek	M-400-0	114/8000604/L	N/A	N/A	Feb. 21, 2014~ Feb. 22, 2014	N/A	Radiation (03CH07-HY)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	4.50
Confidence of 95% (U = 2Uc(y))	4.50

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