

FCC TEST REPORT

Report No.: FR791006

for

47 CFR Part 15 Subpart C

Equipment **Express**

Trade Name : Dash

Model No. : HXD8

FCC ID : EUNHXD8V2

Filing Type : Certification

Applicant : FIC (First International Computer, Inc.)

No.300, Yang Guang St., NeiHu, Taipei, 114, Taiwan,

R.O.C.

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- The data shown in this test report were carried out on Oct. 09, 2007 at Sporton International Inc. LAB.
- Report No.: FR791006, Report Version: Rev.01

Jones Tsai Manager

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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Report	NO.	:	FK/	91006	

History of this test report

Report Issue Date: Oct. 11, 2007

Report issue Date. Oct. 11, 2007					
Report No.	Description				

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1. General Description of Equipment under Test

1.1 Applicant

FIC (First International Computer, Inc.)

No.300, Yang Guang St., NeiHu, Taipei, 114, Taiwan, R.O.C.

1.2 Manufacturer

FIC (First International Computer, Inc.)

No. 300, Yang Guang St., NeiHu, Taipei 114, Taiwan, R.O.C. Export Processing Zone, No. 200 Central SuHong Road, SuZhou Industrial Park, China

1.3 Basic Description of Equipment under Test

Equipment		Express
Trade Name		Dash
Model No.		HXD8
FCC ID		EUNHXD8V2
	Brand Name	AKII
AC Adoptor	P/N	A10P1-05MP
AC Adapter	Power Rating	I/P:100-240V, 47~63Hz, 10.3A
	AC Power Cord Type	1.5 meter shielded cable without ferrite core
	Brand Name	Protop
Car Chargar	P/N	CLA-1000
Car Charger	Power Rating	AC12V
	Power Cord Type	1.8 meter non-shielded cable without ferrite core
	Brand Name	HL
Dottom:	P/N	PL-HL-0002-B
Battery	Rating	3.7~4.2Vdc,
	Туре	Li-ion
	Brand Name	N/A
USB Cable	P/N	N/A
	AC Power Cord Type	1.8 meter shielded cable without ferrite core

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.

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1.4 Feature of Equipment under Test

Type of Modulation	DSSS / OFDM				
Number of Channels	annels 11 Channels				
Frequency Band	2400MHz ~ 2483.5MHz				
Carrier Frequency of each channel	2412MHz + (n - 1) * 5 MHz, n=1~11				
Channel Spacing	5 MHz				
Maximum Output Power to Antenna	802.11b : 18.65 dBm				
(Normal Condition)	802.11g : 21.17 dBm				
HW Version :	HXD8-001-99-98				
SW Version :	HXD80 REV:0	23			
Type of Antenna Connector	N/A				
Antenna Type	Patch Antenna				
Antenna Gain	5 dBi				
Function Type	Transmitter Transceiver V				

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2. Test Configuration of Equipment under Test

2.1 Test Manner

a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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b. Power Table as below:

802.11b

Channel	Frequency	Data Rate					
Channel	(MHz)	1 Mbps	2 Mbps	5.5 Mbps	11 Mbps		
CH 01	2412 MHz	18.51	18.65	18.40	18.39		
CH 06	2437 MHz	17.53	17.35	17.56	17.38		
CH 11	2462 MHz	17.16	17.09	17.14	17.55		

802.11g

	Fraguenay				Data	Rate			
Channel	Frequency (MHz)	6	9	12	18	24	36	48	54
	(IVIF12)	Mbps							
CH 01	2412 MHz	19.7	20.90	21.07	20.80	21.08	20.78	21.17	20.86
CH 06	2437 MHz	20.0	20.01	20.24	20.08	20.23	20.52	20.12	20.21
CH 11	2462 MHz	19.99	19.96	19.73	19.94	19.32	19.68	19.65	19.85

- c. The 802.11b/g data rate were set in 2Mbps and 48Mbps, due to the highest RF output power.
- d. The EUT is programmed to transmit signal continuously for all testings.
- e. Frequency range investigated: conduction 150 kHz to 30 MHz, radiation 30 MHz to 25000MHz.

2.2 Test Mode

Application						
	802.11b	802.11g				
Radiated	Mode 1: CH01_2412 MHz	Mode 4: CH01_2412 MHz				
Emission	Mode 2: CH06_2437 MHz	Mode 5: CH06_2437 MHz				
	Mode 3: CH11_2462 MHz	Mode 6: CH11_2462 MHz				
Conducted	Mode 1: GSM850 Idle + GPS Rx + WLAN Link + Adapter					
	Mode 2: GSM850 Idle + GPS Rx + WLAN Link + USB Link					
	Mode 3: PCS1900 Idle + GPS Rx + WLAN Link + Adapter					

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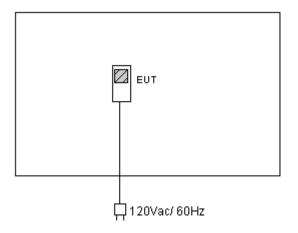


2.3 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Power Cord / Cable
1.	Notebook	ASUS	M5000	PD9WM3B2100	N/A
2.	Base Station	R&S	CMU200	N/A	Unshielded,1.8m
3.	WLAN AP	SMC	SMC-100	HEDWG4005ACC	Unshielded,1.8m
4.	Monitor	VIEWSONIC	VCDTS21553-3P	DoC	Unshielded,1.8m
5.	iPod	Apple	A1199	DoC	shielded,1.2m

2.4 Connection Diagram of Test System

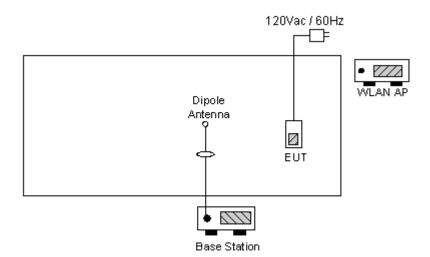
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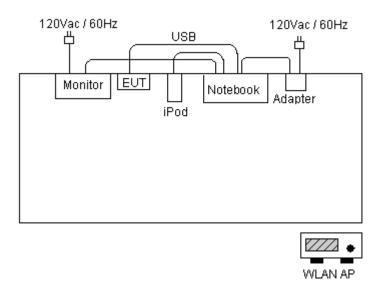
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<Conducted Emission > EUT with Adapter Mode



EUT with USB Link Mode



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3. RF Utility

The programmed RF Utility is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testings.

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4. General Information of Test

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,

Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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Test Site No : CO04-HY, 03CH06-HY

4.1 Test Voltage

AC 120V / 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test Compliance

47 CFR Part 15 Subpart C

4.4 Frequency Range

a. Conduction: from 150 kHz to 30 MHzb. Radiation: from 30 MHz to 25000 MHz

4.5 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.

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5. Test Data and Test Result

5.1 List of Measurements and Examinations

The Emission Mode: Wireless LAN

FCC Rule	Description of Test	Result
15.207	Conducted Emission	Pass
15.247(a)(2)	6dB Bandwidth	Pass
15.247(b)	Maximum Peak Output Power	Pass
15.209(a)	Radiated Emission	Pass
15.247(c)	100kHz Bandwidth of Frequency Band Edges	Pass
15.247(d)	Power Spectral Density	Pass
15.203 15.247(b)(4)	Antenna Requirement	Pass

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5.2 6dB Bandwidth Measurement

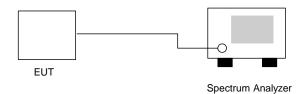
5.2.1 Measuring Instruments:

As described in chapter 6 of this test report.

5.2.2 Test Procedure:

- 1. The transmitter output was connected to the spectrum analyzer directly.
- 2. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
- 3. The 6 dB bandwidth is defined as the frequency range where the power is higher than the peak power minus 6dB.

5.2.3 Test Setup Layout:



5.2.4 Test Result:

Application Type: WLAN 802.11b/g

Temperature : 24~27°C Relative Humidity : 51~53% Test Enginner : __Sun__

802.11b

Channel	Frequency	6dB Emission bandwidth	Limits	Plot
	(MHz)	(MHz)	(MHz)	Ref. No.
01	2412	9.12	> 0.5MHz	Mode 1
06	2437	9.12	> 0.5MHz	Mode 2
11	2462	9.64	> 0.5MHz	Mode 3

802.11g

Channel	Frequency 6dB Emission bandwidth		Limits	Plot
	(MHz)	(MHz)	(MHz)	Ref. No.
01	2412	16.48	> 0.5MHz	Mode 4
06	2437	16.44	> 0.5MHz	Mode 5
11	2462	15.08	> 0.5MHz	Mode 6

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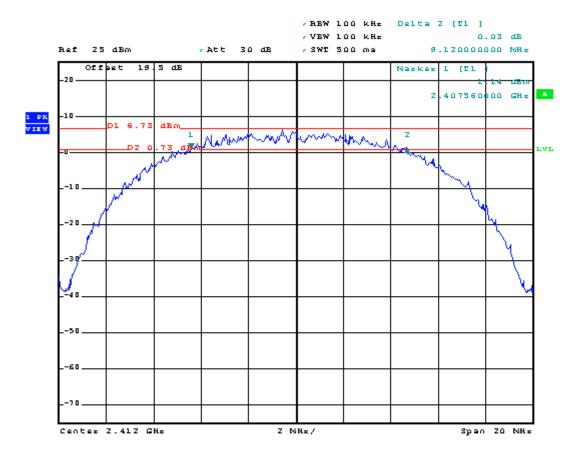
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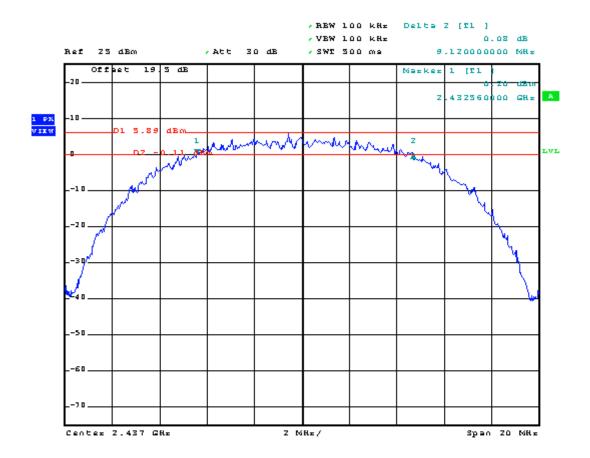
5.2.5 6dB Bandwidth

Mode 1



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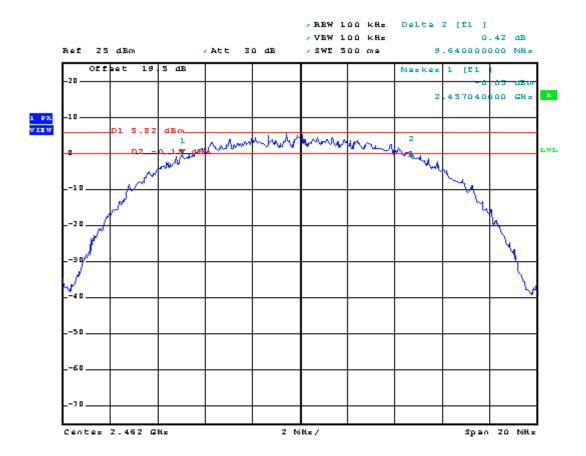
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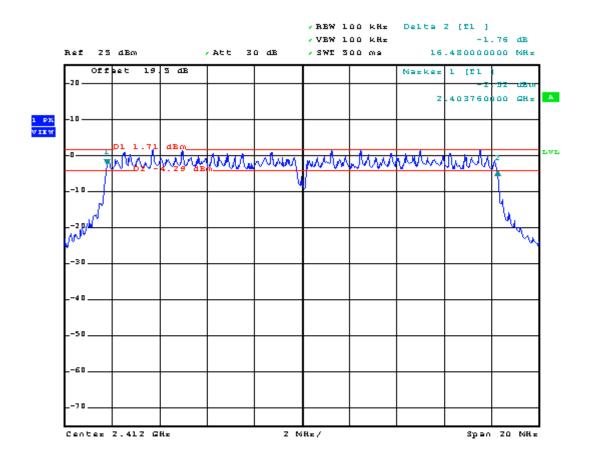
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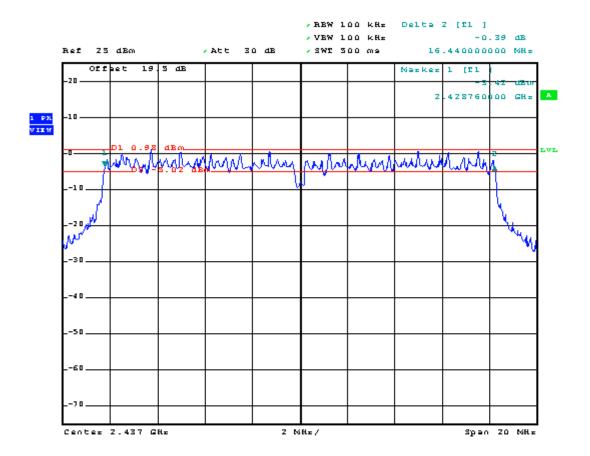
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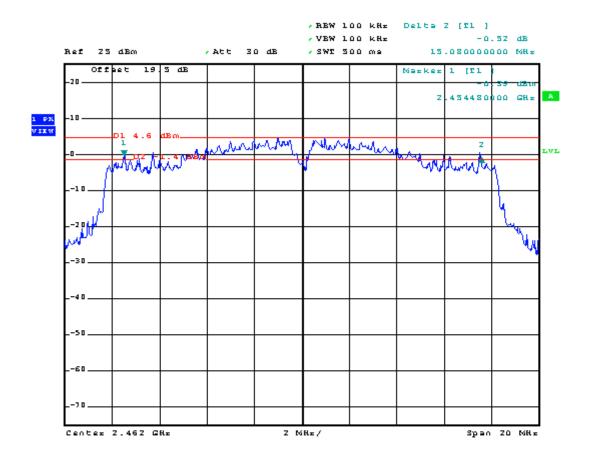
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5.3 Power Spectral Density Measurement

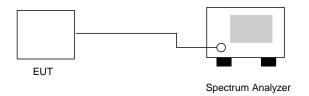
5.3.1 Measuring Instruments:

As described in chapter 6 of this test report.

5.3.2 Test Procedure:

- 1. The transmitter output was connected to spectrum analyzer directly.
- 2. The spectrum analyzer's resolution bandwidth was set at 3kHz RBW and 30kHz VBW as that of the fundamental frequency. Set the sweep time=span/3kHz.
- 3. The power spectral density was measured and recorded.
- 4. The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

5.3.3 Test Setup Layout:



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5.3.4 Test Result:

Application Type : 802.11b/g Temperature : $24~27^{\circ}$ C Relative Humidity : $51~53^{\circ}$ C Test Enginner : Sun

802.11b

Channel	Channel Frequency Power Spectral Density		Limits	Plot
	(MHz)	(dBm)	(dBm)	Ref. No.
01	2412	2.80	8	Mode 1
06	2437	2.09	8	Mode 2
11	2462	2.03	8	Mode 3

802.11g

Channel	Frequency	Power Spectral Density	Limits	Plot
	(MHz)	(dBm)	(dBm)	Ref. No.
01	2412	-8.86	8	Mode 4
06	2437	-9.87	8	Mode 5
11	2462	-8.80	8	Mode 6

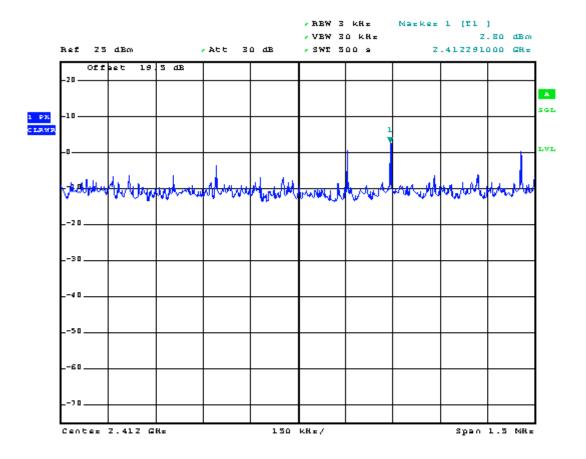
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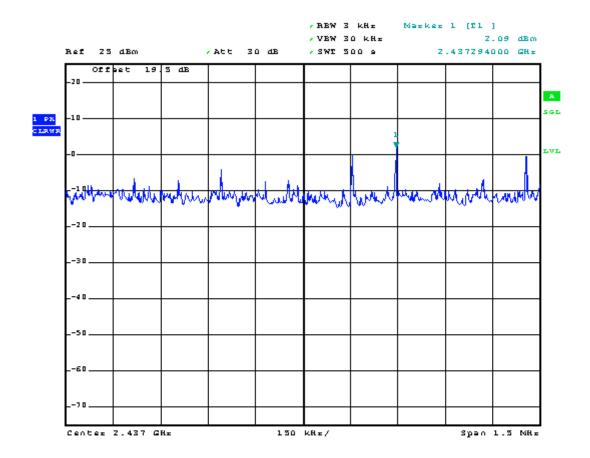
5.3.5 Power Spectral Density

Mode 1



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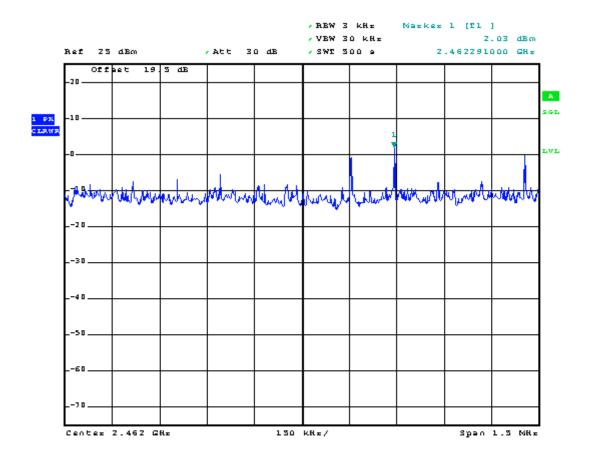
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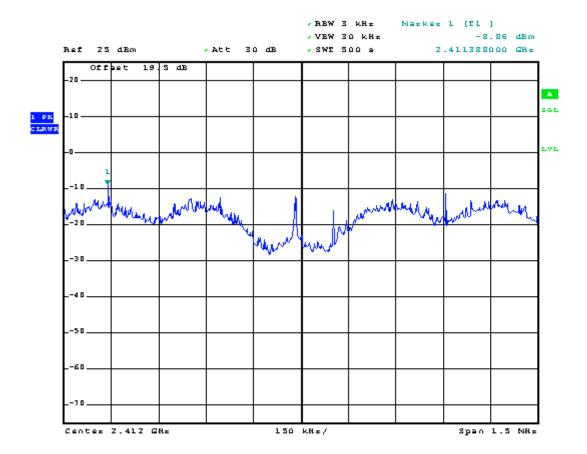
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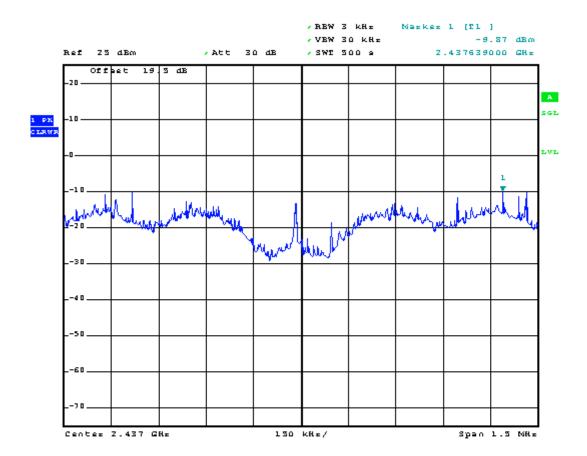
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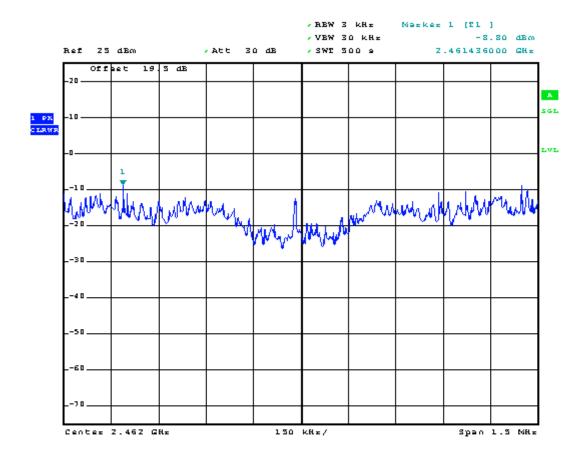
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5.4 Band Edges Measurement

5.4.1 Measuring Instruments:

As described in chapter 6 of this test report.

5.4.2 Test Procedure:

- 1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100 kHz bandwidth from band edge.
- 3. The band edges was measured and recorded.

5.4.3 Test Result:

Application Type: WLAN 802.11b/g

Temperature : 24~27°C Relative Humidity : 51~53% Test Enginner : __Sun__

Test Result in WLAN lower band (802.11b/g) : PASS
Test Result in WLAN higher band (802.11b/g) : PASS

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5.4.4 Note on Band Edge Emission:

≻WLAN 802.11b

CH01 (Horizontal)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2374.03	64.37	-9.63	74.00	65.83	30.25	3.73	35.44	100	0	Peak
2374.03	50.87	-3.13	54.00	52.33	30.25	3.73	35.44	160	221	Average

CH01 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2389.61	64.90	-9.10	74.00	66.33	30.26	3.75	35.44	100	0	Peak
2389.61	50.58	-3.42	54.00	52.01	30.26	3.75	35.44	100	147	Average

CH11 (Horizontal)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.50	55.06	-18.94	74.00	56.42	30.29	3.86	35.51	100	0	Peak
2483.50	43.26	-10.74	54.00	44.62	30.29	3.86	35.51	154	226	Average

CH11 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.50	63.63	-10.37	74.00	64.99	30.29	3.86	35.51	100	0	Peak
2483.50	50.02	-3.98	54.00	51.38	30.29	3.86	35.51	100	147	Average

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➤WLAN 802.11g

CH01 (Horizontal)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.00	67.51	-6.49	74.00	68.96	30.26	3.75	35.46	100	0	Peak
2390.00	44.45	-9.55	54.00	45.90	30.26	3.75	35.46	162	223	Average

CH01 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.00	68.87	-5.13	74.00	70.32	30.26	3.75	35.46	100	0	Peak
2390.00	45.85	-8.15	54.00	47.30	30.26	3.75	35.46	100	360	Average

CH11 (Horizontal)

F	requency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
			Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
:	2483.50	61.05	-12.95	74.00	62.41	30.29	3.86	35.51	100	0	Peak
:	2483.50	39.56	-14.44	54.00	40.92	30.29	3.86	35.51	154	224	Average

CH11 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.50	60.34	-13.66	74.00	61.70	30.29	3.86	35.51	100	0	Peak
2483.50	45.16	-8.84	54.00	46.52	30.29	3.86	35.51	100	360	Average

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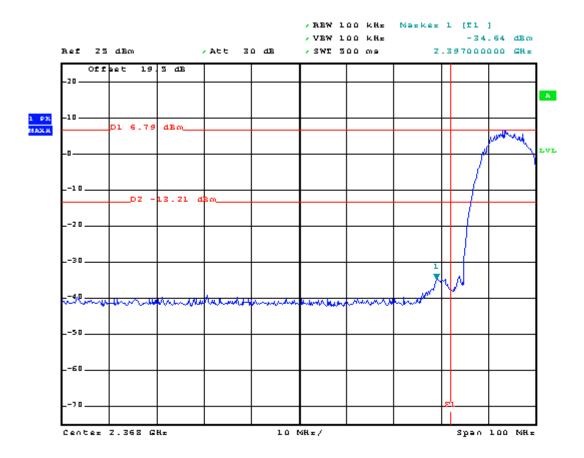
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 26 of 68
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5.4.5 20dB Band Edge

WLAN 802.11b

CH01

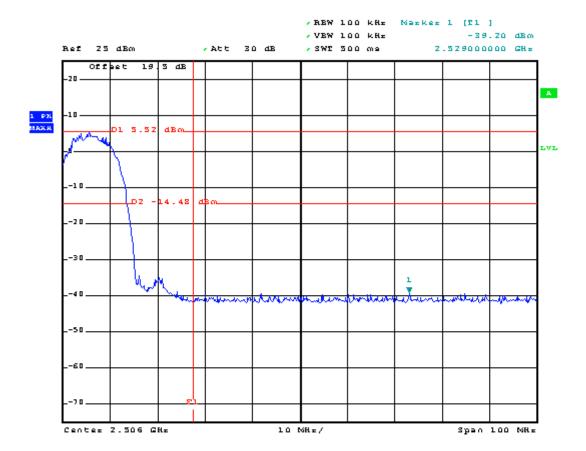


Date: 30.AUG.2007 20:49:26

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 27 of 68
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Date: 30.AUG.2007 20:54:25

SPORTON International Inc.

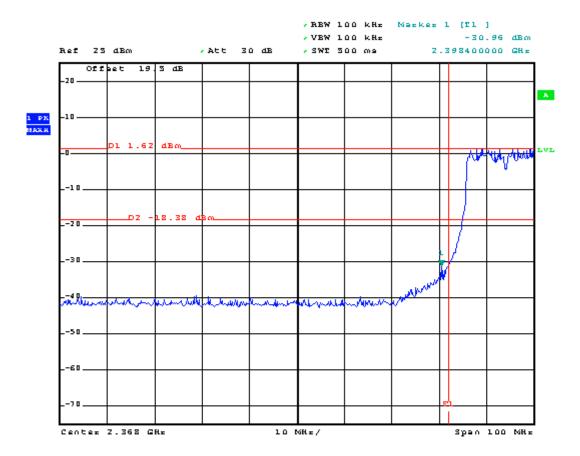
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 28 of 68
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WLAN 802.11g

CH01



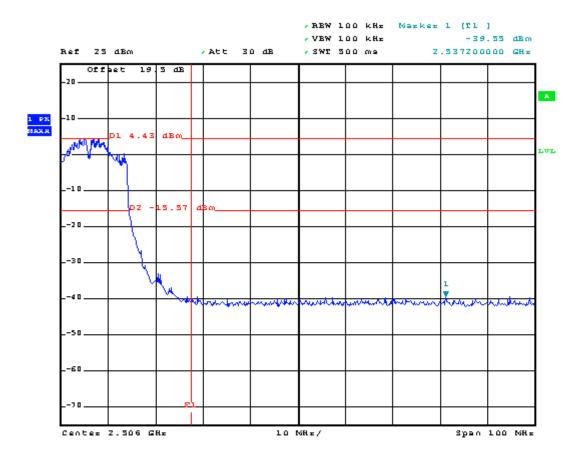
Date: 30.AUG.2007 20:45:25

SPORTON International Inc.

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CH11



Date: 30.AUG.2007 20:42:39

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5.5 Peak Output Power Measurement

5.5.1 Measuring Instruments:

As described in chapter 6 of this test report.

5.5.2 Test Procedure:

- The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter for WLAN measurement. The power is equal to the reading level on power meter plus cable loss at the EUT antenna terminal.
- 2. The antenna port (RF output) of the EUT was connected to the input (RF input) of a spectrum analyzer for BT measurement. RBW and VBW are set to 3MHz. The cable loss has been offset before testing.

5.5.3 Test Setup Layout:



5.5.4 Test Result:

Application Type: WLAN 802.11b/g

Temperature : 24~27°C
Relative Humidity : 51~53%
Test Enginner : Sun

WLAN 802.11b

Channel	Frequency	Measured Output Power	Limits
	(MHz)	(dBm)	(Watt/dBm)
01	2412	18.65	1W/30 dBm
06	2437	17.35	1W/30 dBm
11	2462	17.09	1W/30 dBm

WLAN 802.11g

Channel	Frequency	Measured Output Power	Limits
	(MHz)	(dBm)	(Watt/dBm)
01	2412	21.17	1W/30 dBm
06	2437	20.12	1W/30 dBm
11	2462	19.65	1W/30 dBm

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5.6 Conducted Emission

5.6.1 Measuring Instruments

As describ ed in chapter 6 of this test Report.

5.6.2 Test Procedures:

a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

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- b. Connect EUT to the power port of a line impedance stabilization network (LISN).
- c. All the support units are connected to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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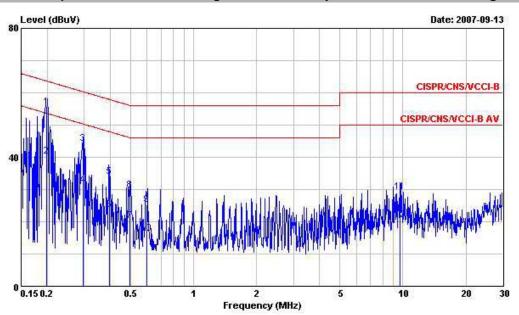
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 32 of 68
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Test Data

5.6.3

Temperature : 24~27°C
Relative Humidity : 51~53%
Test Enginner : ____Win_
Test Mode : Mode 1

The test that passed at minimum margin was marked by the frame in the following table.



Read LISN Cable

Site : CO04-HY

Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE

Over Limit

EUT : AGPS POWER: 120Vac/60Hz Model : FR 791006

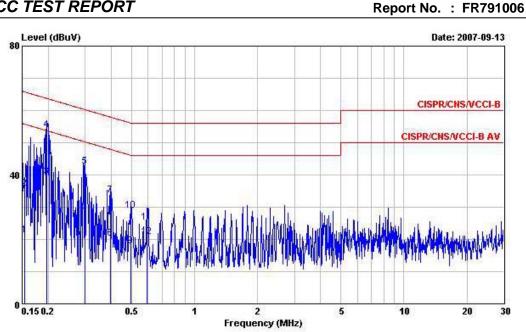
Memo : GSM850 Idle+GPS RX+WLAN Link+Adaptor

Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 1 @0.1982360 55.42 -8.26 2 0.1982360 40.16 -13.52 63.68 55.18 0.10 0.14 QP 39.92 53.68 0.10 0.14 Average 3 0.2971150 44.22 -16.10 60.32 43.64 0.10 0.48 QP 4 0.2971150 31.25 -19.07 50.32 30.67 0.10 0.48 Average 0.3947300 33.97 -23.99 57.96 33.15 0.10 0.72 QP 0.3947300 23.58 -24.38 47.96 22.76 0.10 0.72 Average 0.4941090 20.18 -25.92 46.10 19.42 0.66 Average 0.10 0.4941090 29.72 -26.38 56.10 28.96 0.5998400 25.16 -30.84 56.00 24.46 0.10 0.66 OP 0.10 0.60 QP 0.60 Average 10 0.5998400 16.43 -29.57 46.00 15.73 0.10 9.650 29.21 -30.79 60.00 28.79 0.20 0.22 QP 9.650 20.60 -29.40 50.00 20.18 0.20 0.22 Average

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Site

ion : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL : AGPS Condition

EUT POWER: 120Vac/60Hz Model : FR 791006

Memo : GSM850 Idle+GPS RX+WLAN Link+Adaptor

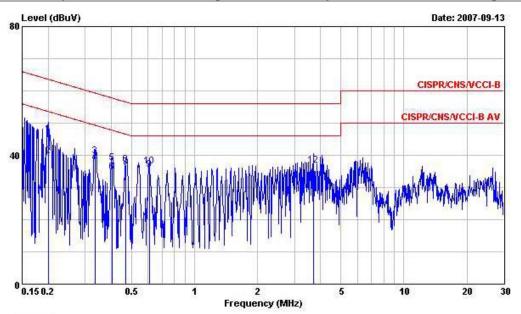
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1539680	21.43	-34.35	55.78	21.19	0.10	0.14	Average
2	0.1539680	35.80	-29.98	65.78	35.56	0.10	0.14	QP
3	0.1973510	39.45	-14.27	53.72	39.21	0.10	0.14	Average
4	@0.1973510	53.82	-9.90	63.72	53.58	0.10	0.14	QP
5	0.2986930	42.67	-17.61	60.28	42.09	0.10	0.48	QP
6	0.2986930	28.61	-21.67	50.28	28.03	0.10	0.48	Average
7	0.3971220	33.63	-24.28	57.91	32.81	0.10	0.72	QP
8	0.3971220	20.32	-27.59	47.91	19.50	0.10	0.72	Average
9	0.4941090	17.92	-28.18	46.10	17.16	0.10	0.66	Average
10	0.4941090	28.85	-27.25	56.10	28.09	0.10	0.66	QP
11	0.5916410	25.15	-30.85	56.00	24.44	0.10	0.61	QP
12	0.5916410	20.75	-25.25	46.00	20.04	0.10	0.61	Average

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Temperature : 24~27°C Relative Humidity: 51~53% Test Enginner : Win Test Mode: Mode 2

The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY

: CISPR/CNS/VCCI-B LISN 200704 99041 LINE Condition

: AGPS EUT POWER: From System Model : FR 791006

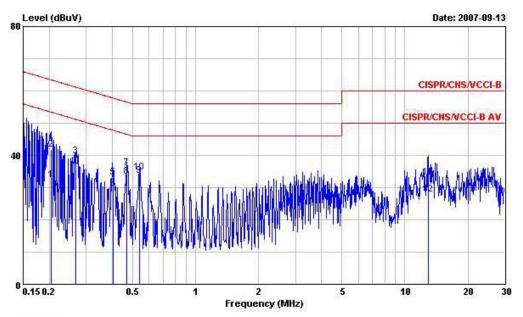
Memo : GSM850 Idle+GPS RX+WLAN Link+USB Link

: +Core

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	i)
1	0.1996860	46.55	-17.07	63.62	46.31	0.10	0.14	QP
2	0.1996860	39.69	-13.93	53.62	39.45	0.10	0.14	Average
3	0.3356200	39.82	-19.49	59.31	39.14	0.10	0.58	QP
4	0.3356200	37.54	-11.77	49.31	36.86	0.10	0.58	Average
5	0.4040020	37.64	-20.13	57.77	36.81	0.10	0.73	QP
6	0.4040020	34.62	-13.15	47.77	33.79	0.10	0.73	Average
7	@0.4710390	36.30	-10.20	46.50	35.52	0.10	0.68	Average
8	0.4710390	37.23	-19.27	56.50	36.45	0.10	0.68	QP
9	@0.6075240	35.53	-10.47	46.00	34.83	0.10	0.60	Average
LO	0.6075240	36.59	-19.41	56.00	35.89	0.10	0.60	QP
11	3.700	32.07	-13.93	46.00	31.64	0.10	0.33	Average
12	3.700	36.81	-19.19	56.00	36.38	0.10	0.33	QP

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 35 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01



Site : CO04-HY

Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL

EUT: AGPS
POWER: From System
Model: FR 791006

Memo : GSM850 Idle+GPS RX+WLAN Link+USB Link

: +Core

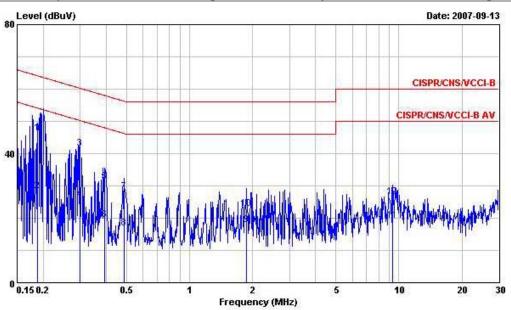
	0 = 0.001000		0ver	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	rever	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	Į.
1	0.2050460	32.30	-21.10	53.40	32.04	0.10	0.16	Average
2	0.2050460	41.88	-21.52	63.40	41.62	0.10	0.16	QP
3	0.2686610	39.78	-21.38	61.16	39.29	0.10	0.39	QP
4	0.2686610	36.00	-15.16	51.16	35.51	0.10	0.39	Average
5	0.4056780	33.14	-24.60	57.74	32.31	0.10	0.73	QP
6	0.4056780	29.65	-18.09	47.74	28.82	0.10	0.73	Average
7	0.4711010	35.96	-20.53	56.49	35.18	0.10	0.68	QP
8	0.4711010	33.38	-13.11	46.49	32.60	0.10	0.68	Average
9	0.5379400	33.65	-12.35	46.00	32.91	0.10	0.64	Average
10	0.5379400	34.85	-21.15	56.00	34.11	0.10	0.64	QP
11	12.926	33.14	-26.86	60.00	32.67	0.30	0.17	QP
12	12.926	28.00	-22.00	50.00	27.53	0.30	0.17	Average

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Temperature : 24~27°C Relative Humidity: 51~53% Test Enginner : Win Test Mode: Mode 3

The test that passed at minimum margin was marked by the frame in the following table.



: CO04-HY Site

on : CISPR/CNS/VCCI-B LISN 200704 99041 LINE : AGPS Condition

EUT POWER: 120Vac/60Hz Model : FR 791006

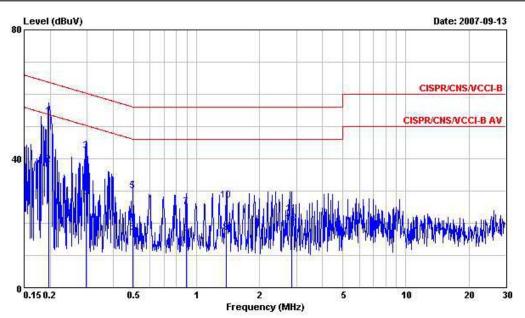
Memo : PCS1900 Idle+GPS RX+WLAN Link+Adaptor

	Freq	Level	Limit	Limit	Level	Factor	Labie	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1883860	46.26	-17.85	64.11	46.02	0.10	0.14	QP
2	0.1883860	28.49	-25.62	54.11	28.25	0.10	0.14	Average
3	0.2986930	41.58	-18.70	60.28	41.00	0.10	0.48	QP
4	0.2986930	25.86	-24.42	50.28	25.28	0.10	0.48	Average
5	0.3934400	31.30	-26.69	57.99	30.48	0.10	0.72	QP
6	0.3934400	19.53	-28.46	47.99	18.71	0.10	0.72	Average
7	0.4863180	28.07	-28.16	56.23	27.30	0.10	0.67	QP
8	0.4863180	16.81	-29.42	46.23	16.04	0.10	0.67	Average
9	1.870	18.00	-28.00	46.00	17.47	0.10	0.43	Average
10	1.870	22.92	-33.08	56.00	22.39	0.10	0.43	QP
11	9.346	19.21	-30.79	50.00	18.79	0.19	0.23	Average
12	9.346	26.48	-33.52	60.00	26.06	0.19	0.23	QP

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Site : CO04-HY

Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL

EUT : AGPS POWER: 120Vac/60Hz Model : FR 791006

Memo : PCS1900 Idle+GPS RX+WLAN Link+Adaptor
Over Limit Read LISN Cable

	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dВ	
1	@0.1975810	53.20	-10.51	63.71	52.96	0.10	0.14	QP
2	0.1975810	38.17	-15.54	53.71	37.93	0.10	0.14	Average
3	0.2955450	42.32	-18.05	60.37	41.75	0.10	0.47	QP
4	0.2955450	27.55	-22.82	50.37	26.98	0.10	0.47	Average
5	0.4967340	30.09	-25.96	56.05	29.33	0.10	0.66	QP
6	0.4967340	17.18	-28.87	46.05	16.42	0.10	0.66	Average
7	0.8896870	25.13	-30.87	56.00	24.55	0.10	0.48	QP
8	0.8896870	16.80	-29.20	46.00	16.22	0.10	0.48	Average
9	1.391	17.03	-28.97	46.00	16.49	0.10	0.44	Average
10	1.391	26.98	-29.02	56.00	26.44	0.10	0.44	QP
11	2.850	22.95	-33.05	56.00	22.43	0.15	0.37	QP
12	2.850	20.10	-25.90	46.00	19.58	0.15	0.37	Average

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5.7 Radiated Emission Measurement

5.7.1 Measuring Instruments

As described in chapter 6 of this Report.

5.7.2 Test Procedures

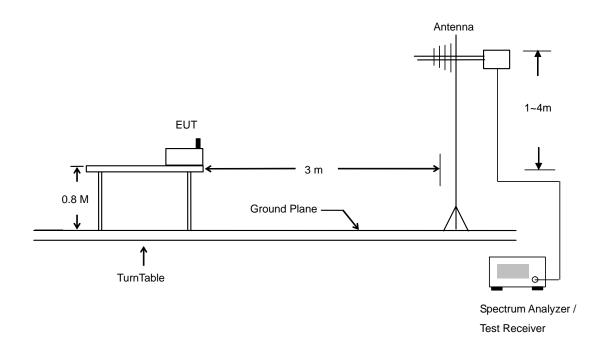
- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- e. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

SPORTON International Inc.

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5.7.3 Typical Test Setup Layout of Radiated Emission



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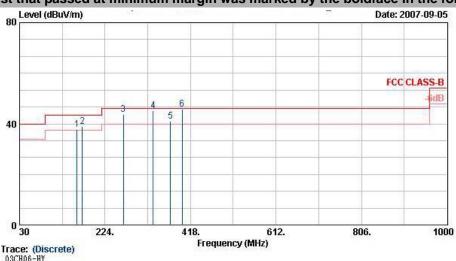
5.7.4 Test Data

Temperature: 25~26°C Relating Humidity: 52~54% Test Enginner : Andrew Test Mode: Mode 1

Polarization: Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

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Trace: (Discrete) Mace: (Discrete)
03CN06-Hy
PCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
AGPS
120Yac/60Hz
FR 791006
11b Tx_Ch01;2412MHz
E1
2

sa ca ma co		Freq	Level	Over Limit	Limit Line	a 000000000000000000000000000000000000	Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	-	MHz	dBu√m	dB	dBu√m	dB uV	dB/m	dB	<u>dB</u>	cm	deg	
1 !		160.14	37. 79	-5. 71	43.50	57. 30	10.13	1.39	31.03	162	291	QP
2 ! 3 !		172.83	39.07	-4.43	43.50	58.78	9.86	1.44	31.01			Peak
3 !		265.98	43.60	-2.40	46.00	60.20	12.56	1.80	30.96	100	309	QP
4 !		332.90	45.29	-0.71	46.00	60.10	14.05	2.04	30.91	100	315	QP
5 !		372.80	41.04	-4.96	46.00	54.70	15.07	2.16	30.88	100	325	QP
6 @		399.40	45, 83	-0.17	46.00	58, 70	15, 76	2, 23	30.86	100	65	QP

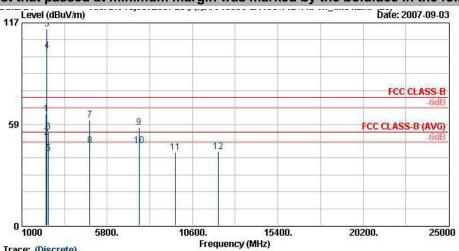
SPORTON International Inc.

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Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

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e : 03CH06-H dition : FCC CLAS

Site Condition EUT Power Model Mode Plane Data Rate Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
ACPS
120Vac/60Hz
FR 791006
11b Tx_Ch01;2412MHz
E1
2

			Over	Limit	Kead	Antenna	Cable	Preamp	Ant	lable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBu√m	dB uV	dB/m	dB	dB	cm	deg	
1	2374.03	64.37	-9.63	74.00	65. 83	30. 25	3. 73	35. 44	100	0	Peak
2 !	2374.03	50.87	-3.13	54.00	52.33	30.25	3.73	35.44	160	221	Average
2! 3@	2412.00	113.73			115.15	30.27	3.77	35.46	100		Peak
4 @	2412.00	100.80			102.22	30, 27	3, 77	35.46	160		Average
5	2488.00	41.67	-12.33	54.00	43.02	30.30	3.86	35, 51	160		Average
6	2488.00	54.00	200 E 100 E	74.00	55.35		3, 86	35.51	100		Peak
7	4824.00	60.82	-13.18	74.00	58. 15		5.84	36.12	100	252	Peak
8	4824.00	46.10	-7.90	54.00	43.43		5.84	36.12	194		Average
ğ	7587.00	56.69	-17. 31	74.00	46.05	39.02	7.64	36.02	100		Peak
10	7587.00	46. 24	-7. 76	54.00	35, 60	39, 02	7.64	36.02	100		Average
îĭ	9648.00	42. 15		74.00	79.80		9. 12	36. 68	100		Peak
ĺŽ	12060.00		-31.44	74.00	78. 28		10.65	36. 56	100		Peak

Remark:

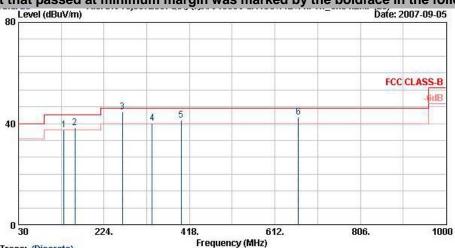
- 1. "3" represents the Fundamental Signal
- 2. "4" represents the Fundamental Signal

SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 42 of 68
Report Issued Date : Oct. 11, 2007
Report Version : Rev.01

Polarization: Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site Condition EVT Power Model Mode

224.

Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m LF-ANT(951121) YERTICAL
ACPS
120Vac/60Hz
FR 791006
11b Tx_Ch01;2412MHz
E1
2

		Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	_	MHz	dBu√m	dB	dBu∛/m	d Bu¥	dB/m	dB	dB	cm	deg	
1 !		133.14	37.55	-5. 95	43.50	56.00	11.37	1. 25	31.08	100	0	QP
2 !		157.98	38.35	-5.15	43.50	57.83	10.18	1.38	31.04			Peak
3 !		265.98	44.60	-1.40	46.00	61.20	12.56	1.80	30.96	187	360	QP
4 !		332.90	40.09	-5.91	46.00	54.90	14.05	2.04	30.91	100	323	QP
5 !		399.40	41.42	-4.58	46.00	54.29	15.76	2.23	30.86			Peak
6!		665.40		-3.45		51, 29		3.15				Peak

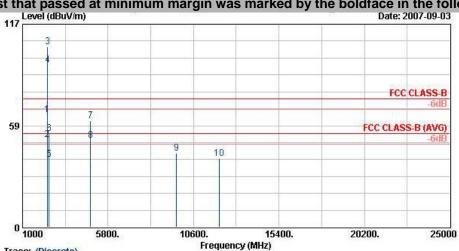
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 43 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



Trace: (Discrete) Trace: (Discrete)
03CH06-HY
PCC CLASS-B 3m SHF-EHF HORN VERTICAL
AGPS
120Vac/60Hz
FR 791006
11b Tx_Ch01;2412MHz
E1
2

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBu¥/m	dB	dBu∛/m	dB u¥	dB/m	dB	dB	cm	deg	
Ï	2389.61	64.90	-9.10	74.00	66. 33	30. 26	3. 75	35. 44	100		Peak
2! 3@	2389.61	50.58	-3.42	54.00	52.01	30.26	3.75	35.44	100	147	Average
	2412.00	104.01			105.43	30.27	3.77	35.46	100		Peak
3 @ 4 @	2412.00	93.63			95.05	30.27	3.77	35.46	100	147	Average
5	2484.00	39.15	-14.85	54.00	40.51	30.29	3, 86	35.51	100	147	Average
6	2484.00	53.84	-20.16	74.00	55, 20	30.29	3, 86	35.51	100		Peak
7	4824.00	61.20	-12.80	74.00	58.53	32.94	5.84	36.12	100	0	Peak
8 !	4824.00	50.12	-3.88	54.00	47.45	32.94	5.84	36.12	122		Average
8 ! 9	9648.00	42.70	-31.30	74.00	80.35	-10.09	9.12	36, 68	100		Peak
10	12060.00	39.42	-34.58	74.00	75.13	-9.80	10.65	36.56	100	100	Peak

Remark:

- "3" represents the Fundamental Signal 1.
- "4" represents the Fundamental Signal 2.

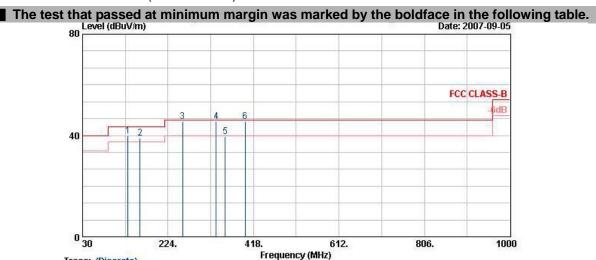
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 44 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Test Mode: Mode 2

Polarization: Horizontal (30MHz-1GHz)

Report No.: FR791006



Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m LF-ANT(951121) HORTZONTAL
ACPS
12DYac/60Hz
FR 791006
11b Tx_Ch06;2437MHz
E1
2 Site Condition EUT

pata mate : .	Freq	Level	Over Limit	Limit Line	a 000000000000000000000000000000000000	Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBu√/m	dB	dBu√m	dB u¥	dB/m	dB	dB -	cm	deg	
1 !	133. 14	39.90	-3.60	43.50	58. 35	11.37	1.25	31.08			Peak
2 !	160.14	39.09	-4.41	43.50	58.60	10.13	1.39	31.03	200	77	QP
3 !	256. 98	45.42	-0.58	46.00	62.20	12.40	1.76	30.94	100	303	QP
4 !	332.90	45.39	-0.61	46.00	60.20	14.05	2.04	30.91	100	313	QP
5	353.90	39.51	-6.49	46.00	53.70	14.60	2.11	30.89	100	307	
6 @	399 40	45 63	-0.37	46 00	58.50	15.76	2, 23	30.86	100	54	OP.

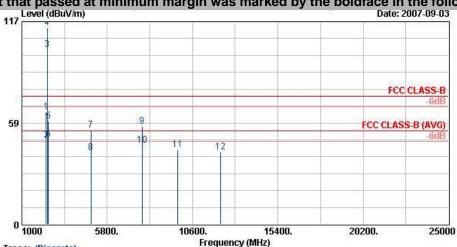
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 45 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

CC TEST REPORT Report No.: FR791006

Polarization: Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table. ___Level (dBuV/m) Date: 2007-09-03



Site Condition EUT Power Model Mode Plane Trace: (Discrete)
03CH06-HV
FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
AGPS
120Vac/60Hz
FR 791006
11b Tx_Ch06;2437MHz
E1
2

			Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuY/m	dB	dBu¥/m	dB u¥	dB/m	dB	dB	cm	deg	
Ï _	2364.00	64.70	-9.30	74.00	66.14	30. 24	3. 73	35. 42	100	0	Peak
2 !	2364.00	48.57	-5.43	54.00	50.02	30.24	3.73	35.42	190	203	Average
2 ! 3 @	2437.00	100.92			102.30	30.28	3.82	35.47	190	203	Average
3 @ 4 @	2437.00	113.70			115.11	30.27	3.79	35.47	100		
5	2483.50	59.38	-14.62	74.00	60.74	30, 29	3.86	35.51	100	0	Peak
6 !	2483.50	48.99	-5.01	54.00	50.35	30, 29	3, 86	35.51	190	203	Average
7	4874.00	54.17	-19.83	74.00	51.32	33.14	5.88	36.16	100		Peak
8	4874.00	41.47	-12.53	54.00	38.61	33.14	5.88	36.16	140		Average
9	7752.00	56.47	-17.53	74.00	45.46		7, 70	35, 95	100		Peak
10	7752, 00	45, 50	-8.50	54.00	34.50		7, 70	35. 95	100		Average
ĨĨ	9748.00			74.00	80.35		9. 15	36.61	100	Õ	
ÎŽ	12185.00		-32, 19	74.00	77. 85		10.66		100		Peak

Remark:

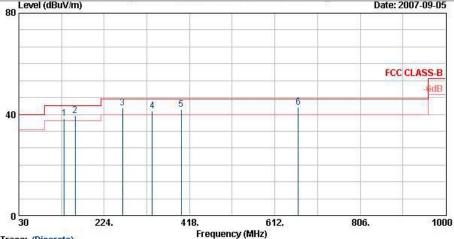
- 1. "3" represents the Fundamental Signal
- 2. "4" represents the Fundamental Signal

SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 46 of 68
Report Issued Date : Oct. 11, 2007
Report Version : Rev.01

4-+ T-11-

Polarization: Vertical (30MHz-1GHz)



Site Condition EUT Power Model

Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m LF-ANT(951121) YERTICAL
AGPS
120Vac/60Hz
FR 791006
11b Tx_Ch06;2437MHz
E1
2

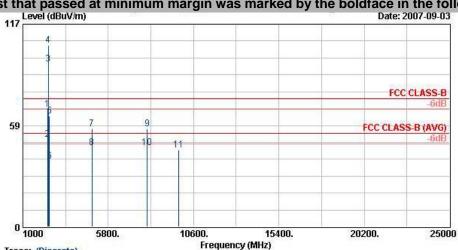
ala male	, 2	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	_	MHz	dBu¥/m	dB	dBu√m	dB uV	dB/m	dB		cm	deg	
1 !		133.14	38. 25	-5. 25	43.50	56. 70	11.37	1.25	31.08	100	327	QP
2 !		157.98	39.42	-4.08	43.50	58.90	10.18	1.38	31.04			Peak
3 !		265.98	42.60	-3.40	46.00	59.20	12.56	1.80	30.96	169	0	QP
4 !		332, 90	41.39	-4.61	46.00	56, 20	14.05	2.04	30.91	142	0	QP
5 !		399.40	41.94	-4.06	46.00	54.81	15.76	2, 23	30.86	888		Peak
6 !		665.40	42.80	-3.20		51.54	18.74	3. 15	30.63			Peak

SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 47 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site Condition EUT

Trace: (Discrete) Trace: (USCTORE)
03CH06-HV
FCC CLASS-B 3m SHF-EHF HORN VERTICAL
ACPS
120Yac/60Hz
FF 791006
11b Tx_Ch06;2437MHz
EI
2

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBu√m	₫₿u∛	dB/m	dB	dB	cm	deg	
1 2 ! 3 @	2384.00 2384.00 2437.00	67. 77 50. 44 93. 90	-6. 23 -3. 56	74. 00 54. 00	69. 21 51. 88 95. 28	30. 25 30. 25 30. 28	3. 75 3. 75 3. 82	35. 44 35. 44 35. 47	100 100 100	360	Peak Average Average
4 @ 5 6	2437. 00 2483. 50 2483. 50	104.96 64.01 37.76	-10.00 -16.24	74. 00 54. 00	106.37 65.36 39.12	30. 27 30. 29 30. 29	3. 79 3. 86 3. 86	35. 47 35. 51 35. 51	100 100 100	0	Peak Peak Average
7 8 9	4874.00 4874.00 7992.00	56. 54 45. 70 56. 76			53.68 42.84 45.24	33. 14 33. 14 39. 58	5. 88 5. 88 7. 79	36. 16 36. 16 35. 85	100 122 100	0 212	Peak Average Peak
10 11	7992.00 9748.00	45. 72 44. 36	-8. 28	54. 00 74. 00	34. 20 81. 67	39. 58 -9. 85	7. 79 9. 15	35. 85 36. 61	100 100	288	Average Peak

Remark:

- "3" represents the Fundamental Signal 1.
- "4" represents the Fundamental Signal 2.

SPORTON International Inc.

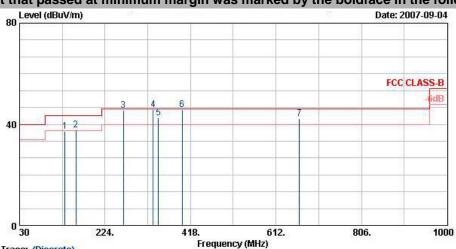
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 48 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Test Mode: Mode 3

Polarization: Horizontal (30MHz-1GHz)

The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
ACPS
120Vac/60Hz
FR 791006
11b Tx_Chil;2462MHz
E1
2

Site Condition EUT Power Model Mode Plane Data Rate

saca naco		Freq	Level	Over Limit	Limit Line		ntenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	_	MHz	dBu√m	dB	dBu√m	dBuV	dB/m	dB	dB -	cm	deg	
1 2 ! 3 !		133.14 157.98 265.98	37. 15 37. 63 45. 60	-6.35 -5.87	43.50 43.50 46.00	55. 60 57. 10 62. 20	11.37 10.18 12.56	1. 25 1. 38 1. 80	31.08 31.04 30.96	100 140 100	269 83 307	QΡ
3 : 4 @		332.90	45.87	-0. 40 -0. 13	46.00	60.68	14.05	2.04	30.91	100	310	QP
5 ! 6 ! 7 !		344.80 399.40 665.40	42. 46 45. 82 42. 36	-3.54 -0.18 -3.64	46.00 46.00 46.00	56. 90 58. 69 51. 10	14. 37 15. 76 18. 74	2. 08 2. 23 3. 15	30, 90 30, 86 30, 63	100 100 121	321 193 334	QP

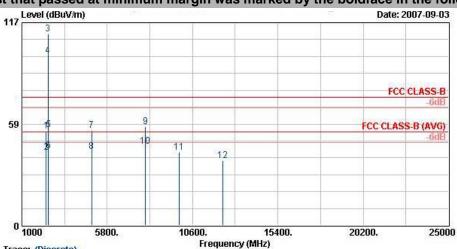
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 49 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



ITACE: (DISCRETE)
03CH06-HY
FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
ACPS
120Vac/60Hz
FR 791006
11b T*_Chii;2462MHz
El
2 Trace: (Discrete) Site Condition EUT

		Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	-	MHz	dBu∀/m	dB	dBuV/m	dB u¥	dB/m	dB	- dB	cm	deg	
Ï		2374.00	54. 54	-19.46	74.00	55. 99	30. 25	3. 73	35. 44	100	0	Peak
2		2374.00	41.99	-12.01	54.00	43.45	30.25	3.73	35.44	154	226	Average
3 @		2462.00	110.53			111.89	30.29	3.84	35.49	100		Peak
3 @ 4 @		2462.00	97.65			99.02	30.29	3.84	35.49	154	226	Average
5		2483, 50	55, 06	-18.94	74.00	56.42	30, 29	3.86	35.51	100		Peak
6		2483, 50	43, 26	-10.74	54.00	44.62	30.29	3.86	35.51	154		Average
7		4924.00	54.97	-19.03	74.00	51.92	33. 34	5.92	36. 21	100		Peak
8		4924.00	42.44		54.00	39.39	33.34	5. 92	36. 21	152		Average
8		7956, 00	56, 85		74.00	45, 40	39.53	7.78	35.86	100		Peak
10		7956.00	45. 47	-8.53	54.00	34. 02	39. 53	7. 78	35. 86	100		Average
ĨĬ		9848.00	42. 24		74.00	79. 23	-9.63	9.18	36. 54	100		Peak
12		12310.00		-36.51	74 00	73 82	-10.65	10.68	36 36	100		Peak

Remark:

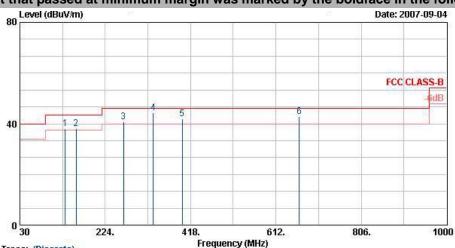
- "3" represents the Fundamental Signal 1.
- "4" represents the Fundamental Signal

SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 50 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site Condition EUT Power Model

```
Trace: (Discrete)
03CH06-HY
FCC CLSS-B 3m LF-ANT(95||2|) YERTICAL
AGPS
120Vac/60Hz
FF 791006
11b Tx_Chil; 2462MHz
E1
2
```

	XX.253 29 7020	Freq	Level	Over Limit	Limit Line		Antenna Factor	5550 20 HO 5 - 15 HO	Preamp Factor	Ant Pos	Table Pos	Remark
	_	MHz	dBu√m	dB	dBu∛/m	dB uV	dB/m	dB	dB	cm	deg	
1 2	!	133.14 157.98	38.03	-5. 35 -5. 47	43.50	56.60 57.50	10.18	1.25 1.38		100	132 349	QP
2345	!	265, 98 332, 90 399, 40	44.19	-5. 30 -1. 81 -3. 97	46.00 46.00 46.00	57.30 59.00 54.90	12. 56 14. 05 15. 76	1.80 2.04 2.23		100 145	153 353 	
6	į	665. 40	42. 73	-3. 27	46.00	51.47	18. 74	3. 15		===		Peak

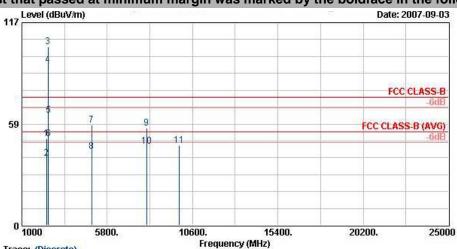
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 51 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



		Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	-	MHz	dBu√m	dB	dBu√m	dB u¥	dB/m	dB	<u>dB</u>	cm	deg	
1		2384.00	50.10	-23.90	74.00	51.54	30. 25	3. 75	35. 44	100	0	Peak
2		2384.00	38.72	-15.28	54.00	40.16	30.25	3.75	35.44	100	147	Average
3 @		2462.00	103.12			104.49	30.29	3.84	35.49	100		Peak
3 @ 4 @		2462.00	92.62			93.99	30.29	3.84	35.49	100	147	Average
4 @ 5		2483.50	63.63	-10.37	74.00	64.99	30.29	3.86	35.51	100		Peak
6!		2483.50	50.02	-3.98	54.00	51.38	30.29	3.86	35, 51	100	147	Average
7		4924.00	57.87	-16.13	74.00	54.82	33.34	5.92	36.21	100		Peak
8		4924.00	42.48	-11.52	54.00	39.43	33.34	5.92	36.21	105	9	Average
9		8022.00	56.21	-17.79	74.00	44.65	39.59	7.83	35.86	100		Peak
10		8022.00	45.66	-8.34	54.00	34.10	39.59	7.83	35.86	100	266	Average
ĨĨ		9848 00	46 24	-27.76	74 00	83 23	-9 63	9 18	36 54	100		Peak

Remark:

- 1. "3" represents the Fundamental Signal
- 2. "4" represents the Fundamental Signal

SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 52 of 68
Report Issued Date : Oct. 11, 2007

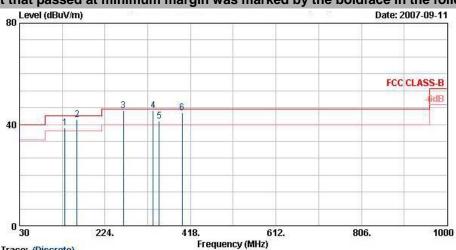
Report Version : Rev.01

Test Mode: Mode 4

Polarization: Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



SECURIOR THAT IS ALOND	Freq	Level	Over Limit			Intenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
_	MHz	dBuV/m	dB	dBu√m	dB u¥	dB/m	dB	dB	cm	deg	
1 ! 2 !	133. 14 160. 14	38.51 41.89	-4. 99 -1. 61	43.50 43.50	56. 97 61. 40	11. 37 10. 13	1. 25 1. 39	31.08 31.03	 224	 84	Peak QP
3 @	265.98	45.40	-0.60	46.00	62.00	12.56	1.80	30.96	100	311	QP
4 ! 5 ! 6 !	332, 90 346, 90 399, 40		-0.61 -4.71 -1.47	46.00 46.00 46.00	60. 20 55. 68 57. 40	14. 05 14. 42 15. 76	2. 04 2. 09 2. 23	30. 91 30. 90 30. 86	100		QP Peak QP

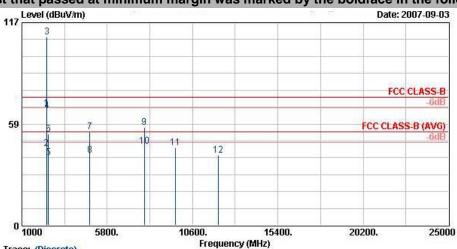
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 53 of 68
Report Issued Date : Oct. 11, 2007
Report Version : Rev.01

Polarization: Horizontal (1GHz-25GHz)

The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



Trace: (Discrete)

Site Condition EUT

ITACE: (DISCRETE)

03CH06-HY
FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
ACPS
120Yac/60Hz
FR 791006
11g Tx_Ch01;2412MHz
E1
48

34,040,38 154 10	3.0 A \$6.000	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBu∀/m	dB	dBuV/m	dB uV	dB/m	dB	dB	cm	deg	
12345 66789 10	239 241 241 248 248 248 482 788 788	0.00 0.00 2.00 2.00 8.00 8.00 4.00 4.00	40. 64 56. 41 45. 79	-13.36 -17.59 -8.21	74. 00 54. 00 54. 00 74. 00 74. 00 54. 00 54. 00	68. 96 45. 90 110. 05 67. 38 40. 46 53. 98 51. 24 37. 97 45. 12 34. 50	30, 30 32, 94 32, 94 39, 44 39, 44	3. 75 3. 75 3. 77 3. 86 3. 86 5. 84 5. 84 7. 75 7. 75	35. 46 35. 46 35. 46 35. 51 35. 51 36. 12 36. 12 35. 89 35. 89	100 162 100 162 162 100 100 200 100	223 0 223 223 0 0 267 0 225	Average
11 12	111111111111111111111111111111111111111	8. 00 0. 00	44. 85 40. 56	-29. 15 -33. 44	74. 00 74. 00	82. 50 76. 28	-10.09 -9.80	9. 12 10. 65	36. 68 36. 56	100	0	Peak Peak

Remark:

- 1. "3" represents the Fundamental Signal
- 2. "4" represents the Fundamental Signal

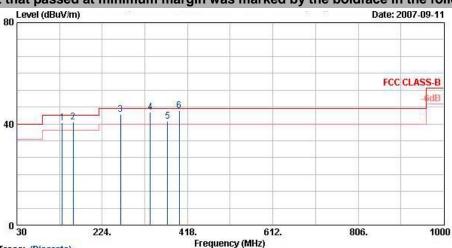
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 54 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



Site Condition EUT Power Model

1 ! 2 ! 3 ! 4 ! 5 ! 6

Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m LF-ANT(951121) YEPTICAL
ACFS
120Vac/60Hz
FF 791006
11g Tx_CH01;2412MHz
E1
48

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
_	200,500.00	dBuY∕m	dB	dBu√m	dB u¥	dB/m	dB		cm	deg	
	WILL WE	EN THE	H AGE	50 SEL	SELECTION OF THE PERSON OF THE	G-51871/527	AN HEL				
	133.14 157.98	40. 35 40. 83	-3. 15 -2. 67	43.50 43.50	58. 80 60. 30	11. 37 10. 18	1. 25 1. 38	31.08 31.04	100 100	89 82	QP OP
	265. 98	43.60	-2.40	46.00	60.20	12.56	1.80	30.96	100	114	
	332.90	44.69	-1.31	46.00	59.50	14.05	2.04	30.91	117		QP .
	372. 80 399. 40	41.10 45.13	-4. 90 -0. 87	46.00 46.00	54. 76 58. 00	15. 07 15. 76	2. 16 2. 23	30. 88 30. 86	166	131	Peak QP

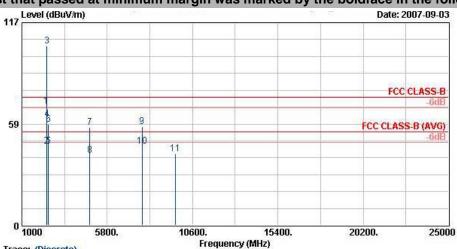
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 55 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



Trace: (Discrete)

Site Condition EUT Power Model

Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m SHF-EHF HORN VERTICAL
ACPS
120Vac/60Hz
FF 791006
11g Tx_Ch01;2412MHz
E1
48

		Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBu∛/m	dB	dBu¥/m	dB u¥	dB/m	dB	dB	cm	deg	
1	!	2390.00	68.87	-5. 13	74.00	70.32	30. 26	3. 75	35. 46	100		Peak
2		2390.00	45.85	-8.15	54.00	47.30	30.26	3.75	35.46	100	360	Average
2	@	2412.00	103.33			104.74	30.27	3.77	35.46	100		Peak
4	@ @	2412.00	61.36			62.78	30.27	3, 77	35.46	100		Average
5	~	2494.00	45.80	-8.20	54.00	47.15	30.30	3.88	35.53	100		Average
6		2494.00		-15.88	74.00	59.47	30.30	3.88	35, 53	100		Peak
7		4824.00	56, 46	22 (25 g) (20 c)	74.00	53.79	32.94	5.84	36.12	100	1.50	Peak
8		4824.00	40. 27	-13.73	54.00	37.60	32. 94	5.84	36. 12	184		Average
9		7761.00	56.88	-17.12	74.00	45. 85	39. 27	7. 71	35. 95	100		Peak
10		7761.00	45. 53	-8. 47	54.00	34.50	39. 27	7. 71	35. 95	100		Average
ĨĬ		9648.00	41.47	-32. 53	74.00	79.12		9. 12	36.68	100		Peak

Remark:

- "3" represents the Fundamental Signal 1.
- "4" represents the Fundamental Signal

SPORTON International Inc.

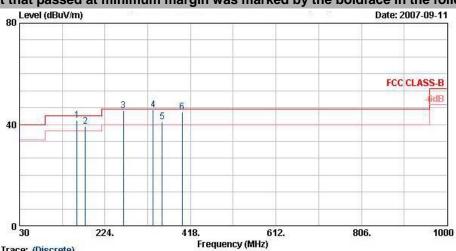
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 56 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Test Mode: Mode 5

Polarization: Horizontal (30MHz-1GHz)

The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



Site Condition EUT Power Model

Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m LF-ANT(951121) HORTZONTAL
ACPS
120Vac/60Hz
FF 791006
11g Tx_Ch06;2437MHz
E1
48

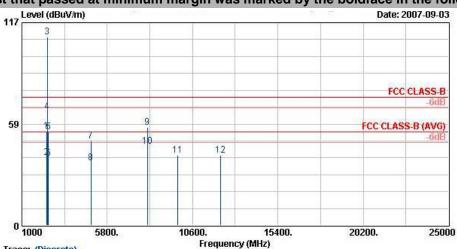
Jata mate ; 40	Freq	Level	Over Limit	707 (000) (000)		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
-	MHz	dBu√m	dB	dBu∛/m	dB u¥	dB/m	dB	dB	cm	deg	
1 !	160.14	41.59	-1.91	43.50	61.10	10.13	1.39	31.03	225	94	QP
2!	179.04	39.32	-4.18	43.50	59.39	9.50	1.46	31.04			Peak
3 !	265.98	45.50	-0.50	46.00	62.10	12.56	1.80	30.96	100	303	QP
4 @	332.90	45.69	-0.31	46.00	60.50	14.05	2.04	30.91	100	311	QP
5 !	353.90	40.95	-5.05	46.00	55.13	14.60	2.11	30.89	777		Peak
6 !	399.40	45.03	-0.97	46,00	57, 90	15, 76	2. 23	30.86	100	58	QP .

SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 57 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



Trace: (Discrete)

Site Condition EUT

ITACE: (DISCRETE)

03CH06-HY
FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
ACPS
120Yac/60Hz
FR 791006
11g Tx_Ch06;2437MHz
E1
46

		Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	-	MHz	dBu∀/m	dB	dBuV/m	dB u¥	dB/m	dB	dB	cm	deg	
1		2388.00	54.37	-19.63	74.00	55.80	30. 26	3. 75	35. 44	100	0	Peak
2		2388.00	38.99	-15.01	54.00	40.42	30.26	3.75	35.44	153	225	Average
3 @		2437.00	108.52			109.93	30.27	3.79	35.47	100		Peak
4 @		2437.00	65.46			66.84	30.28	3.82	35.47	153	225	Average
5		2488.00	53.76	-20.24	74.00	55.12	30.30	3.86	35.51	100		Peak
6		2488.00	38.84	-15.16	54.00	40.19	30.30	3.86	35, 51	153	225	Average
7		4874.00	48.62	-25.38	74.00	45.84	33.08	5.87	36.16	100		Peak
8		4874.00	36.00	-18.00	54.00	33.14	33.14	5.88	36.16	131		Average
9		8052.00	56.59	-17.41	74.00	45.07	39.56	7.85	35, 89	100		Peak
10		8052.00	45.72	-8. 28	54.00	34.20	39.56	7.85	35.89	100		Average
10 11		9748.00	40.51	-33.49	74.00	77.82	-9.85	9. 15	36.61	100		Peak
19		12185 00		-33 65	74 00	76 35		10.66	36 48	100		Peak

Remark:

- "3" represents the Fundamental Signal 1.
- 2. "4" represents the Fundamental Signal

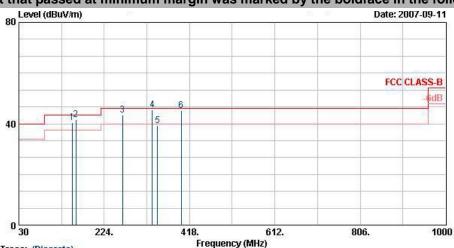
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 58 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



Site Condition EUT Power Model Mode Plane Data Rate

1 !! 2 !! 3 !! 5 !

Trace: (Discrete)

03CH06-HY
FCC CLASS-B 3m LF-ANT(951121) YEPTICAL
ACFS
120Vac/60Hz
FF 791006
11g Tx_CH06;2437MHz
E1
48

78 (SEC-6-)	Freq	Level	Over Limit	Limit Line		Antenna Factor	1130 <u>2</u> 0 × 12 5 × 14 × 16	Preamp Factor	Ant Pos	Table Pos	Remark
_	MHz	dBu∛/m	dB	dBu√m	dB u¥	dB/m	dB	<u>dB</u> -	cm	deg	
	150.69	40.58	-2. 92	43.50	59. 90	10.40	1.35	31.07	100	79	QP
	159.33	41.67	-1.83	43.50	61.16	10.16	1.38	31.03	100	77	QP
	265, 98	43.50	-2.50	46.00	60.10	12.56	1.80	30.96	100	110	
	332.90	45.39	-0.61	46.00	60.20	14.05	2.04	30.91	126	345	QP
	344.80	39. 26	-6.74		53.70	14.37	2.08	30.90		200000	Peak
	399 40	45 13	-0.87	46 00	58 00	15 76	2 23		100	45	OP

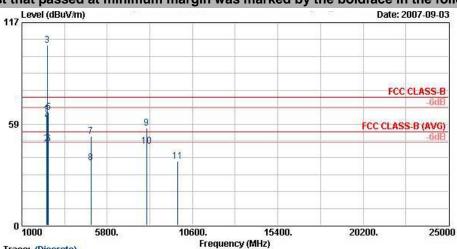
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 59 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



Trace: (Discrete)

Site Condition EUT Power Model Mode Plane Data Pata PROBLEM TO THE CONTROL OF THE CONTRO

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBu¥/m	dB u¥	dB/m	dB	dB	cm	deg	
Ī	2378.00	64.11	-9.89	74.00	65.54	30. 25	3. 75	35. 44	100	0	Peak
2 3 @	2378.00	46.87	-7.13	54.00	48.31	30.25	3.75	35.44	100	360	Average
3 @	2437.00	103.88			105.26	30.28	3.82	35.47	100		Peak
3 @ 4 @	2437.00	60.27			61.65	30.28	3.82	35.47	100	360	Average
4 @ 5	2488.00	65.42	-8.58	74.00	66.77	30.30	3.86	35.51	100		Peak
6	2488.00	46.81	-7.19	54.00	48.16	30.30	3.86	35.51	100	360	Average
7	4874.00	51.45	-22.55	74.00	48.67	33.08	5.87	36.16	100		Peak
8	4874.00	36.22	-17.78	54.00	33.36	33.14	5.88	36.16	100	318	Average
9	8022.00	56.30	-17.70	74.00	44.74	39.59	7.83	35.86	100	0	Peak
10	8022.00	45.66	-8.34	54.00	34.10	39.59	7.83	35.86	100	226	Average
11	9748.00	36.79	-37. 22	74.00	74.10	-9.85	9.15	36.61	100		Peak

Remark:

- 1. "3" represents the Fundamental Signal
- 2. "4" represents the Fundamental Signal

SPORTON International Inc.

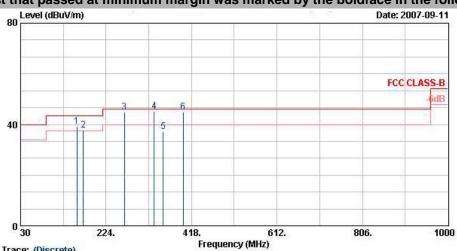
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 60 of 68
Report Issued Date : Oct. 11, 2007
Report Version : Rev.01

Test Mode: Mode 6

Polarization: Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



ata Mate	; 46	Freq	Level	Over Limit	50 3 (E) (C) (C) (C) (C)	a. 000000000000000000000000000000000000	Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	_	MHz	dBu∛/m	dB	dBu∛/m	dB uV	dB/m	dB	dB	cm	deg	
1 !		157. 98	39.18	-4.32	43.50	58.66	10.18	1.38	31.04	101101101	-	Peak
2 !		172.83	37.73	-5.77	43.50	57.44	9.86	1.44	31.01			Peak
2 ! 3 !		265.98	44.90	-1.10	46.00	61.49	12.56	1.80	30.96			Peak
		332, 90	45.29	-0.71	46.00	60.10	14.05	2.04	30.91	107	316	QP
4 @ 5		353.90	37.15	-8.85	46.00	51.34	14.60	2.11	30.89			Peak
6 !		399.40	44.83	-1.17	46.00	57, 70		2, 23	30.86	100	58	QP

SPORTON International Inc.

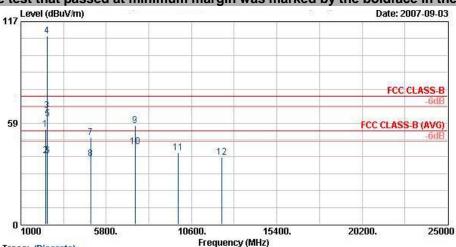
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 61 of 68

Report Issued Date : Oct. 11, 2007

Report Version : Rev.01

Polarization: Horizontal (1GHz-25GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



Trace: (Discrete)

Site Condition EUT Power

ITACE: (DISCRETE)

03CH06-HY
FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
ACPS
120Yac/60Hz
FR 791006
11g Tx_Chil;2462MHz
El
48

			Over	Limit	Read	An tenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBu∀/m	dB	dBu∛/m	dB u¥	dB/m	dB	dB	cm	deg	
I	2388.00		-19.16	74.00	56. 27	30. 26	3. 75	35. 44	100		Peak
2 3 @	2388.00	39.56	-14.44	54.00	40.99	30. 26	3. 75	35. 44	154		Average
3 @	2462.00	65.57			66.94	30. 29	3.84	35.49	154	224	Average
3 @ 4 @	2462.00	108.87			110.24	30.29	3.84	35.49	100	0	Peak
4 @ 5	2483.50	61.05	-12.95	74.00	62.41	30.29	3.86	35.51	100	0	Peak
6	2483.50	39.56	-14.44	54.00	40.92	30.29	3.86	35.51	154	224	Average
7	4924.00	50.21	-23.79	74.00	47.16	33. 34	5.92	36.21	100	0	Peak
8	4924.00	37.74	-16.26	54.00	34.69	33.34	5.92	36.21	126	247	Average
9	7416.00	56.82	-17.18	74.00	46.49	38.71	7.66	36.04	100	0	Peak
10	7416.00	44.88	-9.12	54.00	34.55	38.71	7.66	36.04	100	269	Average
11	9846.00	41.25	-32.75	74.00	78.24	-9.63	9.18	36.54			Peak
12	12310.00	38.89	-35.11	74.00	75.24	-10.65	10.68	36.38	100	0	Peak

Remark:

- "3" represents the Fundamental Signal 1.
- "4" represents the Fundamental Signal

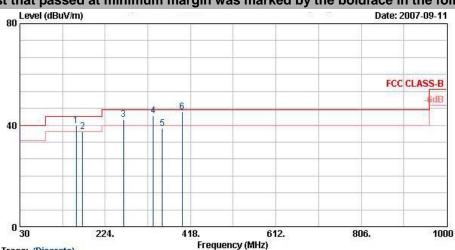
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 62 of 68 Report Issued Date : Oct. 11, 2007

Report Version : Rev.01 Polarization: Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m LF-ANT(951121) YEPTICAL
ACPS
120Vac/60Hz
FR 791006
11g Tx_Ch11;2462MHz
E1
48 Site Condition EUT Power Model

uata mate ; યા	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\text{dBuV/m}}$	dB	dBu√m	dB uV	dB/m	dB		cm	deg	
Î !	157. 98	39.88	-3.62	43.50	59.36	10.18	1.38	31.04			Peak
2 ! 3 !	172.83	37.59	-5.91	43.50	57.31	9.86	1.44	31.01			Peak
3 !	265.98	42.33	-3.67	46.00	58.92	12.56	1.80	30.96	77.7		Peak
4 !	332.90	43.59	-2.41	46.00	58.40	14.05	2.04	30.91	156	18	QP
5	353, 90	38, 71	-7.29	46.00	52.89	14.60	2.11	30.89		-83	Peak
6 @	399, 40	45. 33	-0.67	46.00	58, 20	15. 76	2, 23	30.86	100	359	QP .

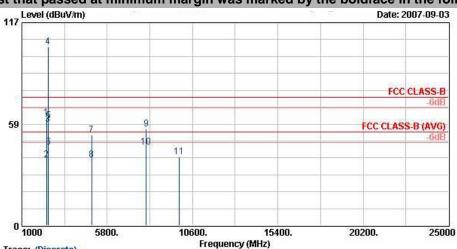
SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 63 of 68 Report Issued Date : Oct. 11, 2007 Report Version : Rev.01

Polarization: Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

Report No.: FR791006



		Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	_	MHz	dBu∛/m	dB	dBu∛/m	dB u¥	dB/m	dB	dB	cm	deg	
1 2		2388.00 2388.00	62. 29 38. 04	-11.71 -15.96	74.00 54.00	63. 72 39. 47	30. 26 30. 26	3. 75 3. 75	35. 44 35. 44	100		Peak Average
3 @ 4 @		2462. 00 2462. 00	58. 07 103. 28	10.00	04.00	59. 44 104. 65	30. 29 30. 29	3. 84 3. 84	35. 49 35. 49	100	360	Average Peak
5 6		2483.50 2483.50	60.34 45.16		74.00 54.00	61.70 46.52	30. 29 30. 29	3. 86 3. 86	35. 51 35. 51	100	0	Peak Average
7 8		4924.00 4924.00	52.06 37.64	-16.36	74. 00 54. 00	49. 09 34. 59	33. 27 33. 34	5. 91 5. 92	36. 21 36. 21	100 801		Peak Average
9 10 11		7992.00 7992.00 9848.00	55. 84 45. 22 39. 66	-8.78	74.00 54.00 74.00	44. 32 33. 70 76. 65	39. 58 39. 58 -9. 63	7. 79 7. 79 9. 18	35. 85 35. 85 36. 54	001 001 001	236	Peak Average Peak

Remark:

- 1. "3" represents the Fundamental Signal
- 2. "4" represents the Fundamental Signal

SPORTON International Inc.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 64 of 68
Report Issued Date : Oct. 11, 2007
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5.8 Antenna Requirements

5.8.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

Report No.: FR791006

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

5.8.2 Antenna Connected Construction

The antennas used in this product are patch antenna for WLAN with I-PEX connector and it is considered to meet antenna requirement of FCC.

5.8.3 Antenna Gain

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output powen limit.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: EUNHXD8V2 Page No. : 65 of 68
Report Issued Date : Oct. 11, 2007
Report Version : Rev.01

6. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100359	9kHz – 2.75GHz	Mar. 01, 2007	Feb. 29, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Mar. 30, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Mar. 21, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Apr. 19, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 09, 2007	Mar. 08, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A	Conduction (CO04-HY)
Isolation Transformer	Erika Fiedler OHG	D-65396 Walluf	58	45MHz-2.15GHz	N/A	N/A	Conduction (CO04-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 05, 2006	Oct. 04, 2007	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 26, 200	Jul. 25, 2008	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071025	1G~18G	Jun. 04, 2007	Jun. 03, 2008	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Pre Amplifier	Mini Circuits	ZKL-2	D092004-1	10~2500MHz	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Base Station Simulator	R&S	CMU200	106656	WCDMA	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)

SPORTON International Inc.

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7. Uncertainty Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Conduibudion	Uncerta	u(x)			
Contribution	40	Probability	$u(x_i)$		
	dB	Distribution			
Receiver reading	0.10	Normal(k=2)	0.05		
Cable loss	0.10	Normal(k=2)	0.05		
AMN insertion loss	2.50	Rectangular	0.63		
Receiver Spec	1.50	Rectangular	0.43		
Site imperfection	1.39	Rectangular	0.80		
Mismatch	+0.34/-0.35	U-shape	0.24		
Combined standard uncertainty Uc(y)	1.13				
Measuring uncertainty for a level of	2.26				
Confidence of 95% U=2Uc(y)					

<u>Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)</u>

	Uncerta			
Contribution	-ID	Probability	$u(x_i)$	
	dB	Distribution		
Receiver reading	0.41	Normal(k=2)	0.21	
Antenna factor calibration	0.83	Normal(k=2)	0.42	
Cable loss calibration	0.25	Normal(k=2)	0.13	
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14	
RCV/SPA specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site imperfection	1.43	Rectangular	0.83	
Mismatch	+0.39/-0.41	U-shaped	0.28	
Combined standard uncertainty Uc(y)	1.27			
Measuring uncertainty for a level of	0.54			
Confidence of 95% U=2Uc(y)	2.54			

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

	Uncerta	inty of X_i	$u(x_i)$	Ci	$Ci*u(x_i)$		
Contribution	dB	dB Probability Distribution		Ci			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10		
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85		
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25		
Receiver Correction	±2.00	Rectangular	1.15	1	1.15		
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87		
Site imperfection	±2.80	Triangular	1.14	1	1.14		
Mismatch							
Receiver VSWR Γ1= 0.197	+0.34/-0.35	II ahamad	0.244	1	0.244		
Antenna VSWR Γ2= 0.194	+0.34/-0.33	U-shaped	0.244	'			
Uncertainty=20log(1-Γ1*Γ2*Γ3)							
Combined standard uncertainty Uc(y)	2.36						
Measuring uncertainty for a level of	4.70						
Confidence of 95% U=2Uc(y)	4.72						

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