FCC RADIO TEST REPORT

according to

47 CFR FCC Part 15 Subpart C § 15.247

Equipment : 802.11 b/g/n Wireless USB Dongle

Model No. : LP-8617, LP-8617E, LP-8697

Brand Name : None & Loopcomm Filing Type : New Application

Applicant : Loopcomm Technology Inc.

1F, No.114, Lian-Chen Rd, Chung-Ho City, Taipei County,

235, Taiwan R.O.C.

FCC ID : VYTLP-8617

Manufacturer : Loopcomm Technology Inc.

1F, No.114, Lian-Chen Rd, Chung-Ho City, Taipei County,

235, Taiwan R.O.C.

Received Date : Jun. 29, 2009 Final Test Date : Jul. 13, 2009

Statement

Test result included is only for the 802.11b/g part of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.4-2003 and 47 CFR FCC Part 15 Subpart C.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.





SPORTON International Inc.

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

Table of Contents

1	SUM	MMARY OF THE TEST RESULT	2
		Product Details Table for Filed Antenna Table for Carrier Frequencies Table for Test Modes	3 3 3
	2.5 2.6 2.7 2.8 2.9	Table for Testing Locations Table for Supporting Units Table for Parameters of Test Software Setting EUT Operation during Test Test Configuration	
3	3.1 3.2 3.3 3.4 3.5 3.6 3.7	AC Power Line Conducted Emissions Measurement	
		T OF MEASURING EQUIPMENTST LOCATION	
ΑI	PPEN	CERTIFICATE OF ACCREDITATION	A1 ~ A3
		NDIX B. TEST PHOTOS	B1 ~ B10B1 ~ C16

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

Report No.: FR962522AC

History of This Test Report

Original Issue Date: Jul. 17, 2009

Report No.: FR962522AC

No additional attachment.

□ Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

 SPORTON International Inc.
 Page No.
 : ii of ii

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

CERTIFICATE OF COMPLIANCE

according to

47 CFR FCC Part 15 Subpart C § 15.247

Equipment : 802.11 b/g/n Wireless USB Dongle

Model No. : LP-8617, LP-8617E, LP-8697

Brand Name: None & Loopcomm

Applicant : Loopcomm Technology Inc.

1F, No.114, Lian-Chen Rd, Chung-Ho City,

Taipei County, 235, Taiwan R.O.C.

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Jun. 29, 2009 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

Sam Lee / Supervisor

SPORTON International Inc.

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 SPORTON International Inc.
 Page No. : 1 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

1 SUMMARY OF THE TEST RESULT

	Applied Standard: 47 CFR FCC Part 15 Subpart C						
Part	Rule Section	Description of Test	Result	Under Limit			
3.1	15.207	AC Power Line Conducted Emissions	Complies	9.14 dB			
3.2	15.247(b)(3)	Maximum Conducted Output Power	Complies	12.03 dB			
3.3	15.247(e)	Power Spectral Density	Complies	19.34 dB			
3.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-			
3.5	15.247(d)	Radiated Emissions	Complies	1.13 dB			
3.6	15.247(d)	Band Edge Emissions	Complies	5.24 dB			
3.7	15.203	Antenna Requirements	Complies	-			

Report No.: FR962522AC

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Maximum Peak Conducted Output Power	±0.8dB	Confidence levels of 95%
Power Spectral Density	±0.5dB	Confidence levels of 95%
6dB Spectrum Bandwidth	±8.5×10 ⁻⁸	Confidence levels of 95%
Radiated Emissions (9kHz~30MHz)	±0.8dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±1.9dB	Confidence levels of 95%
Radiated / Band Edge Emissions (1GHz~18GHz)	±1.9dB	Confidence levels of 95%
Radiated Emissions (18GHz~40GHz)	±1.9dB	Confidence levels of 95%
Temperature	±0.7℃	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC / AC Power Source	±1.4%	Confidence levels of 95%

 SPORTON International Inc.
 Page No.
 : 2 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

2 GENERAL INFORMATION

2.1 Product Details

There are two difference antenna type of product. The difference between is Internal Antenna (LP-8617, LP-8697) and external Antenna (LP-8617E). Only the radio detail of IEEE 802.11b/g is shown in the table below. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

Items	Description
Power Type	Power from host
Modulation	DSSS for IEEE 802.11b ; OFDM for IEEE 802.11g
Data Modulation	DSSS (DBPSK / DQPSK / CCK) ; OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps) DSSS (1/ 2/ 5.5/11); OFDM (6/9/12/18/24/36/48/54)	
Frequency Range	2400 ~ 2483.5MHz
Channel Number 11b/g: 11	
Channel Band Width (99%)	For Mode 1 : 11b: 15.08 MHz ; 11g: 16.48 MHz
	For Mode 2 : 11b: 15.24 MHz ; 11g: 16.48 MHz
Conducted Output Power	For Mode 1 : 11b: 17.97 dBm ; 11g: 14.18 dBm
	For Mode 2 : 11b: 14.40 dBm ; 11g: 13.36 dBm

Note: For the all test, the following modes were tested:

Mode 1. Internal Antenna (LP8617)

Mode 2. External Antenna (LP8617E)

2.2 Table for Filed Antenna

Antenna & Bandwidth

Antenna	1st (TX)		
Bandwidth Mode	20 MHz	40 MHz	
802.11b	V	X	
802.11g	V	Х	
802.11n (2.4GHz)	V	V	

For Internal Antenna

Ant.	Antenna Type	Connector	Gain (dBi)	Remark
Α	Printed Antenna	Fixed on Board	1.20	TX / RX

For External Antenna

Ant.	Antenna Type	Connector	Gain (dBi)	Remark
Α	Dipole Antenna	R-SMA	2.00	TX / RX

 SPORTON International Inc.
 Page No.
 : 3 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

2.3 Table for Carrier Frequencies

Frequency Allocation for 802.11b/g

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
2400~2483.5MHz	3	2422 MHz	9	2452 MHz
2400~2463.5WITZ	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz	-	-

2.4 Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on the entire possible configuration for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
AC Power Line Conducted Emissions	Normal Mode	Auto	-
Radiated Emissions Below 1GHz	11g/BPSK	6 Mbps	6
Maximum Conducted Output Power	11b/CCK	1 Mbps	1/6/11
Power Spectral Density			
6dB Spectrum Bandwidth			
Radiated Emissions Above 1GHz	11g/BPSK	6 Mbps	1/6/11
Band Edge Emissions			

2.5 Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH02-HY	SAC	Hwa Ya	643075	IC 4086B-1	-
CO04-HY	Conduction	Hwa Ya	643075	IC 4086B-1	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

 SPORTON International Inc.
 Page No.
 : 4 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

2.6 Table for Supporting Units

Support Unit	Brand	Model	FCC ID	Remark
Notebook	DELL	D400	N/A	
Notebook	DELL	D505	N/A	
Mouse (USB)	Microsoft	1004	N/A	EMI
Modem	ACEEX	DM1414	IFAXDM1414	□□VII
Notebook	סבנו	D400	DoC	
(Remote Workstation)	DELL	D400	DoC	

2.7 Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters of IEEE 802.11b/g

Mode 1. Internal Antenna (LP8617)

Test Software Version	RTL 8192SU					
Frequency	2412 MHz	2437 MHz	2462 MHz			
IEEE 802.11b	50	50	49			
IEEE 802.11g	51	51	50			

Power Parameters of IEEE 802.11b/g

Mode 2. External Antenna (LP8617E)

Test Software Version	RTL 8192SU					
Frequency	2412 MHz	2437 MHz	2462 MHz			
IEEE 802.11b	45	45	46			
IEEE 802.11g	47	47	47			

2.8 EUT Operation during Test

An executive program, EMCTEST.EXE under WIN XP, which generates a complete line of continuously repeating "H" pattern was used as the test software.

The NB sends "H" messages to the panel, and the panel displays "H" patterns on the screen.

The NB sends "H" messages to the modem.

Executed "ping.exe" to link with the remote workstation to receive and transmit data by LAN and WLAN.

 SPORTON International Inc.
 Page No.
 : 5 of 84

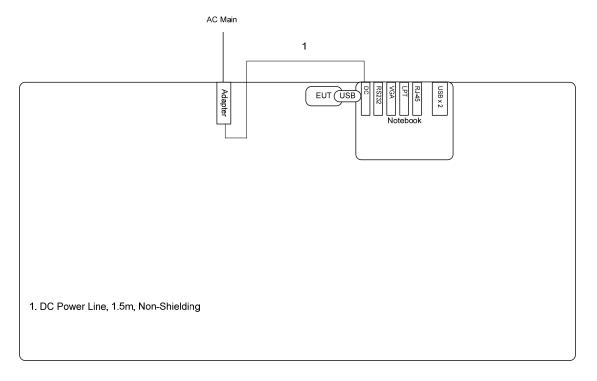
 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

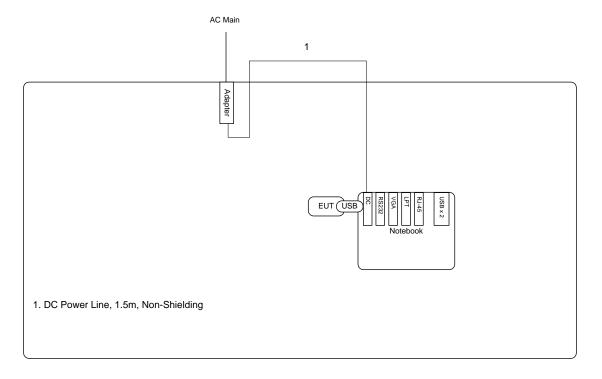
2.9 Test Configuration

2.9.1 Radiation Emissions Test Configuration

For radiated emissions 9kHz~1GHz



For radiated emissions above 1GHz



SPORTON International Inc. Page No. : 6 of 84 Issued Date : Jul. 17, 2009 TEL: 886-2-2696-2468 : VYTLP-8617 FCC ID

FAX: 886-2-2696-2255

3 TEST RESULT

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Class B

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

3.1.2 Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.1.3 Test Procedures

- 1. Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
- 4. The frequency range from 150 KHz to 30 MHz was searched.
- 5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

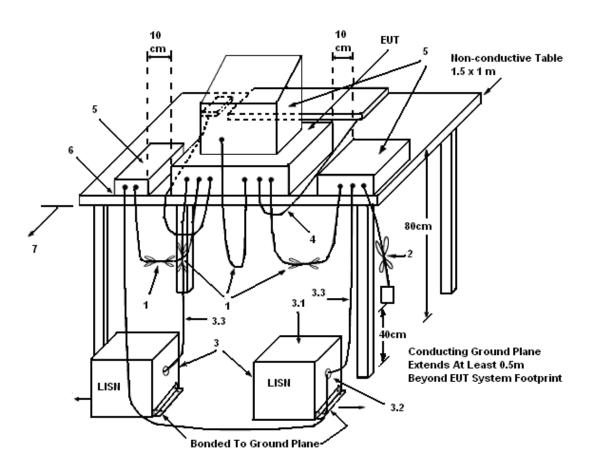
6. The measurement has to be done between each power line and ground at the power terminal.

 SPORTON International Inc.
 Page No. : 7 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

3.1.4 Test Setup Layout



LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
- (3.1) All other equipment powered from additional LISN(s).
- (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
- (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

 SPORTON International Inc.
 Page No. : 8 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

3.1.5 Test Deviation

There is no deviation with the original standard.

3.1.6 EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

 SPORTON International Inc.
 Page No.
 : 9 of 84

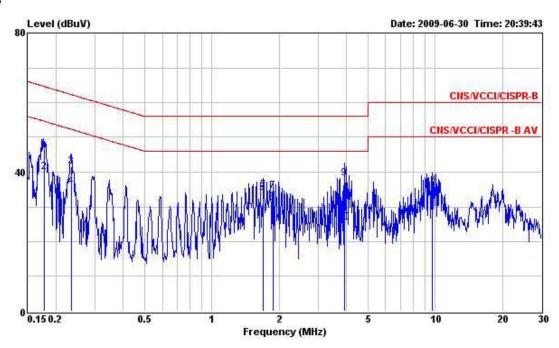
 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

3.1.7 Results of AC Power Line Conducted Emissions Measurement

Final Test date	Jun. 30, 2009	Test Site No.	CO01-HY
Temperature	26.3℃	Humidity	51%
Test Engineer	Ken	Configuration	Normal / Mode 1

Line



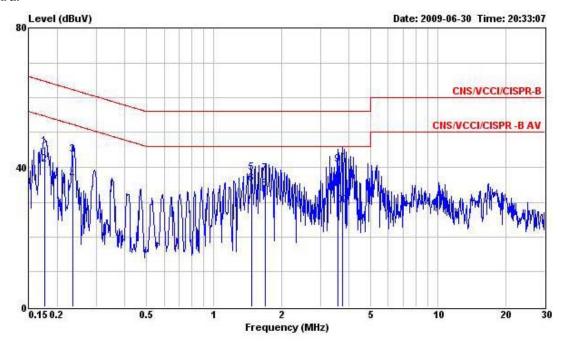
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBu∀	dBuV	dB	dB	
1	0.177	46.69	-17.95	64.64	46.52	0.08	0.09	QP
2	0.177	39.96	-14.68	54.64	39.79	0.08	0.09	Average
3	0.234	41.57	-20.74	62.31	41.41	0.08	0.08	QP
4	0.234	35.79	-16.52	52.31	35.63	0.08	0.08	Average
5	1.700	34.87	-21.13	56.00	34.59	0.13	0.15	QP
6	1.700	33.94	-12.06	46.00	33.66	0.13	0.15	Average
7	1.879	34.54	-21.46	56.00	34.26	0.13	0.15	QP
8	1.879	31.23	-14.77	46.00	30.95	0.13	0.15	Average
9	3.932	38.18	-17.82	56.00	37.88	0.17	0.13	QP
10	3.932	25.38	-20.62	46.00	25.08	0.17	0.13	Average
11	9.737	35.46	-24.54	60.00	34.98	0.27	0.21	QP
12	9.737	32.18	-17.82	50.00	31.70	0.27	0.21	Average

 SPORTON International Inc.
 Page No.
 : 10 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Neutral



			0ver	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
-	MHz	dBuV	dB	dBuV	dBuV	dB	dB	2
1	0.176	46.08	-18.59	64.67	45.93	0.06	0.09	QP
2	0.176	40.67	-14.00	54.67	40.52	0.06	0.09	Average
3	0.234	43.66	-18.65	62.31	43.52	0.06	0.08	QP
4	0.234	36.40	-15.91	52.31	36.26	0.06	0.08	Average
.5	1.468	38.39	-17.61	56.00	38.16	0.10	0.13	QP
6	1.468	35.24	-10.76	46.00	35.01	0.10	0.13	Average
7	1.702	38.28	-17.72	56.00	38.02	0.11	0.15	QP
8	1.702	33.65	-12.35	46.00	33.39	0.11	0.15	Average
9	3.580	40.83	-15.17	56.00	40.56	0.14	0.13	QP
10	3.580	29.16	-16.84	46.00	28.89	0.14	0.13	Average
11	3.756	41.23	-14.77	56.00	40.96	0.14	0.13	QP
12	3.756	29.14	-16.86	46.00	28.87	0.14	0.13	Average

Note:

Level = Read Level + LISN Factor + Cable Loss.

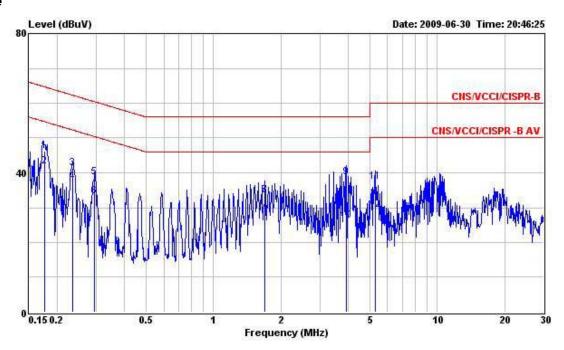
 SPORTON International Inc.
 Page No.
 : 11 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 30, 2009	Test Site No.	CO01-HY
Temperature	26.3 ℃	Humidity	51%
Test Engineer	Ken	Configuration	Normal / Mode 2

Line



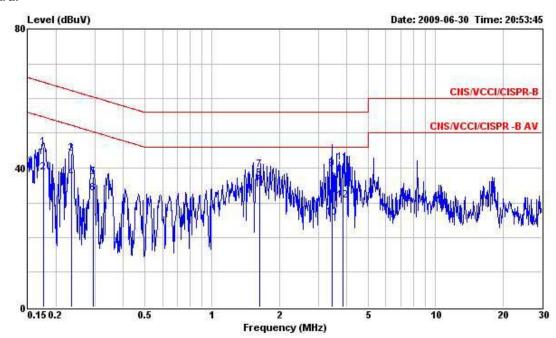
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
2	MHz	dBuV	dB	dBu∀	dBuV	dB	dB	
1	0.176	46.24	-18.45	64.69	46.07	0.08	0.09	QP
2	0.176	41.76	-12.93	54.69	41.59	0.08	0.09	Average
2 3 4 5	0.234	41.35	-20.97	62.32	41.19	0.08	0.08	QP
4	0.234	37.31	-15.01	52.32	37.15	0.08	0.08	Average
-5	0.293	38.67	-21.78	60.45	38.51	0.09	0.07	QP
6	0.293	33.19	-17.26	50.45	33.03	0.09	0.07	Average
7	1.700	33.57	-22.43	56.00	33.29	0.13	0.15	QP
8	1.700	33.48	-12.52	46.00	33.20	0.13	0.15	Average
9	3.927	38.83	-17.17	56.00	38.53	0.17	0.13	QP
10	3.927	26.34	-19.66	46.00	26.04	0.17	0.13	Average
11	5.277	37.39	-22.61	60.00	37.04	0.20	0.15	QP
12	5.277	29.24	-20.76	50.00	28.89	0.20	0.15	Average

 SPORTON International Inc.
 Page No.
 : 12 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Neutral



	30 <u>44</u> 40994660	Q00000000	0ver	Limit	Read	Probe	Cable	Section Contraction
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
-	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.176	45.94	-18.73	64.67	45.79	0.06	0.09	QP
2	0.176	38.75	-15.92	54.67	38.60	0.06	0.09	Average
2 3 4 5 6	0.234	44.05	-18.26	62.31	43.91	0.06	0.08	QP
4	0.234	37.11	-15.20	52.31	36.97	0.06	0.08	Average
5	0.294	37.51	-22.90	60.41	37.37	0.07	0.07	QP
6	0.294	32.67	-17.74	50.41	32.53	0.07	0.07	Average
7	1.640	39.58	-16.42	56.00	39.34	0.10	0.14	QP
8	1.640	36.86	-9.14	46.00	36.62	0.10	0.14	Average
9	3.461	39.72	-16.28	56.00	39.45	0.13	0.14	QP
10	3.461	25.67	-20.33	46.00	25.40	0.13	0.14	Average
11	3.869	41.53	-14.47	56.00	41.26	0.14	0.13	QP
12	3.869	30.77	-15.23	46.00	30.50	0.14	0.13	Average

Note:

Level = Read Level + LISN Factor + Cable Loss.

 SPORTON International Inc.
 Page No.
 : 13 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

3.2.2 Measuring Instruments and Setting

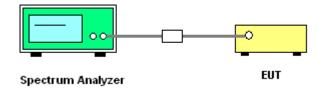
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Power Meter Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz
VB	3000 kHz
Detector	rms
Trace	Max Hold
Sweep Time	Auto

3.2.3 Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- Test was performed in accordance with Measurement of Digital Transmission Systems Operating under Section 15.247.

3.2.4 Test Setup Layout



3.2.5 Test Deviation

There is no deviation with the original standard.

3.2.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

 SPORTON International Inc.
 Page No.
 : 14 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

3.2.7 Test Result of Maximum Conducted Output Power

Final Test date	Jul. 13, 2009	Test Site No.	TH01-HY
Temperature	25℃	Humidity	54%
Test Engineer	Duncan	Configurations	802.11b/g / Mode 1

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.35	30.00	Complies
6	2437 MHz	17.86	30.00	Complies
11	2462 MHz	17.97	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.92	30.00	Complies
6	2437 MHz	14.18	30.00	Complies
11	2462 MHz	13.93	30.00	Complies

 SPORTON International Inc.
 Page No.
 : 15 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jul. 13, 2009	Test Site No.	TH01-HY
Temperature	25 ℃	Humidity	54%
Test Engineer	Duncan	Configurations	802.11b/g / Mode 2

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.05	30.00	Complies
6	2437 MHz	14.40	30.00	Complies
11	2462 MHz	14.39	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.36	30.00	Complies
6	2437 MHz	13.26	30.00	Complies
11	2462 MHz	13.34	30.00	Complies

 SPORTON International Inc.
 Page No.
 : 16 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

3.3 Power Spectral Density Measurement

3.3.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

3.3.2 Measuring Instruments and Setting

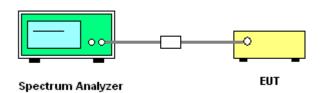
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	1.5MHz
RB	3 kHz
VB	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	500s

3.3.3 Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2. Set RBW of spectrum analyzer to 3 kHz and VBW to 30 kHz. Set Detector to Peak, Trace to Max Hold.
- 3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
- 4. Set the span to 1.5MHz and the sweep time to 500s and record the maximum peak value.

3.3.4 Test Setup Layout



3.3.5 Test Deviation

There is no deviation with the original standard.

 SPORTON International Inc.
 Page No. : 17 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

3.3.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.3.7 Test Result of Power Spectral Density

Final Test date	Jul. 13, 2009	Test Site No.	TH01-HY
Temperature	25℃	Humidity	54%
Test Engineer	Duncan	Configurations	802.11b/g / Mode 1

Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-12.22	8.00	Complies
6	2437 MHz	-11.34	8.00	Complies
11	2462 MHz	-11.99	8.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-14.70	8.00	Complies
6	2437 MHz	-14.12	8.00	Complies
11	2462 MHz	-13.30	8.00	Complies

 SPORTON International Inc.
 Page No.
 : 18 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jul. 13, 2009	Test Site No.	TH01-HY
Temperature	25 ℃	Humidity	54%
Test Engineer	Duncan	Configurations	802.11b/g / Mode 2

Report No.: FR962522AC

Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-8.62	8.00	Complies
6	2437 MHz	-8.86	8.00	Complies
11	2462 MHz	-9.31	8.00	Complies

Configuration IEEE 802.11g

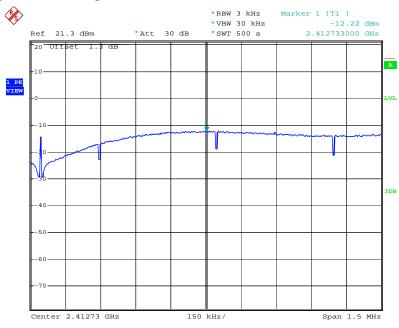
Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-9.67	8.00	Complies
6	2437 MHz	-9.67	8.00	Complies
11	2462 MHz	-9.76	8.00	Complies

 SPORTON International Inc.
 Page No.
 : 19 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

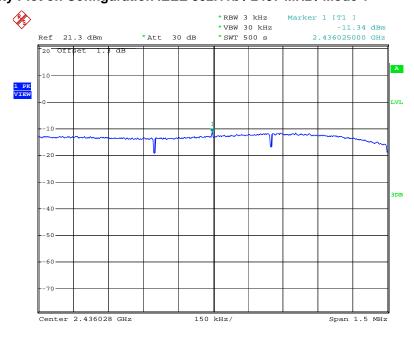
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Power Density Plot on Configuration IEEE 802.11b / 2412 MHz / Mode 1



Date: 7.JUL.2009 14:45:28

Power Density Plot on Configuration IEEE 802.11b / 2437 MHz / Mode 1



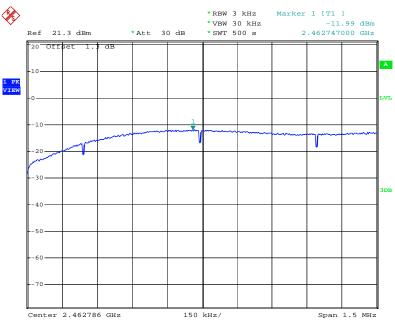
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 SPORTON International Inc.
 Page No.
 : 20 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Power Density Plot on Configuration IEEE 802.11b / 2462 MHz / Mode 1



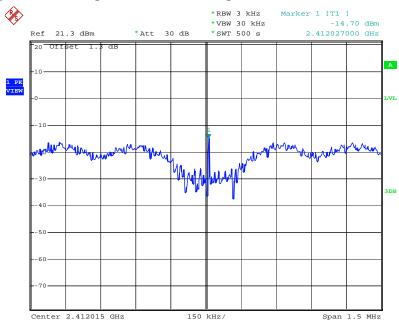
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 SPORTON International Inc.
 Page No.
 : 21 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

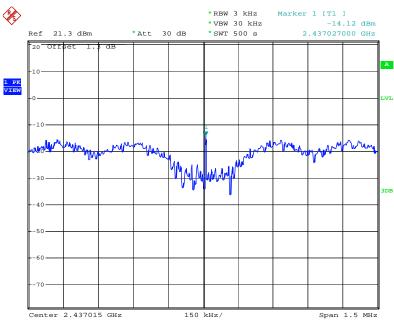
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Power Density Plot on Configuration IEEE 802.11g / 2412 MHz / Mode 1



Date: 7.JUL.2009 14:55:13

Power Density Plot on Configuration IEEE 802.11g / 2437 MHz / Mode 1



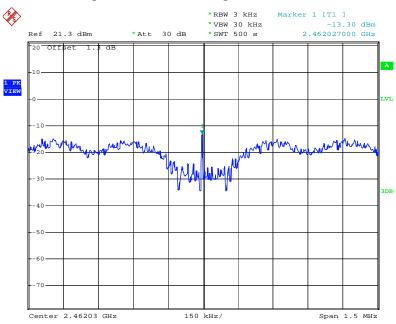
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 SPORTON International Inc.
 Page No.
 : 22 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Power Density Plot on Configuration IEEE 802.11g / 2462 MHz / Mode 1



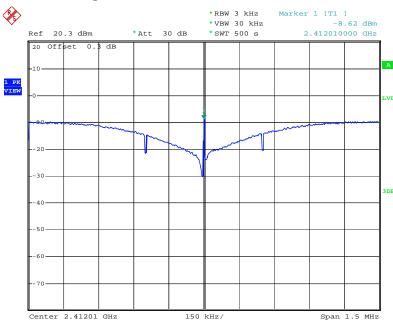
Date: 7.JUL.2009 14:50:35

 SPORTON International Inc.
 Page No.
 : 23 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

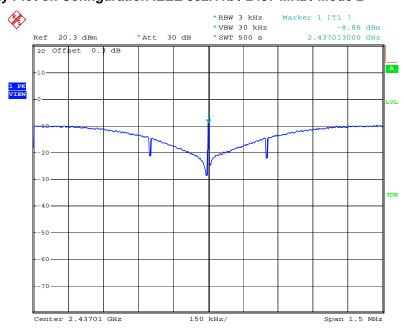
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Power Density Plot on Configuration IEEE 802.11b / 2412 MHz / Mode 2



Date: 8.JUL.2009 10:21:44

Power Density Plot on Configuration IEEE 802.11b / 2437 MHz / Mode 2



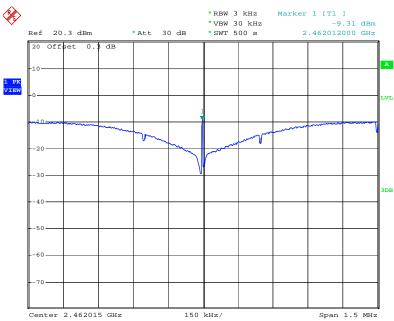
Date: 8.JUL.2009 10:23:23

 SPORTON International Inc.
 Page No. : 24 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

Power Density Plot on Configuration IEEE 802.11b / 2462 MHz / Mode 2



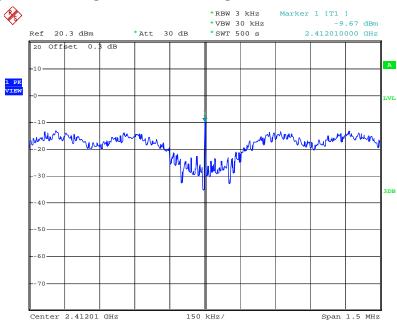
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 SPORTON International Inc.
 Page No.
 : 25 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

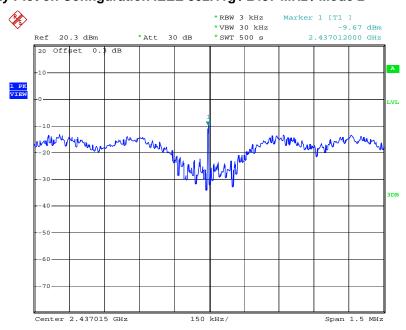
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Power Density Plot on Configuration IEEE 802.11g / 2412 MHz / Mode 2



Date: 8.JUL.2009 10:27:00

Power Density Plot on Configuration IEEE 802.11g / 2437 MHz / Mode 2



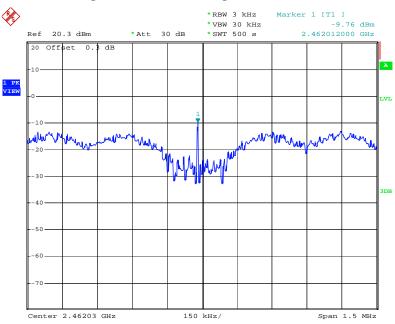
Date: 8.JUL.2009 10:26:01

 SPORTON International Inc.
 Page No. : 26 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

Power Density Plot on Configuration IEEE 802.11g / 2462 MHz / Mode 2



Date: 8.JUL.2009 10:24:51

 SPORTON International Inc.
 Page No.
 : 27 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

3.4 6dB Spectrum Bandwidth Measurement

3.4.1 Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

3.4.2 Measuring Instruments and Setting

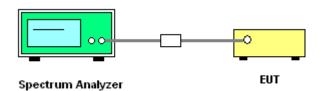
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.4.3 Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
- 3. Measured the spectrum width with power higher than 6dB below carrier.

3.4.4 Test Setup Layout



 SPORTON International Inc.
 Page No.
 : 28 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

3.4.5 Test Deviation

There is no deviation with the original standard.

3.4.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.4.7 Test Result of 6dB Spectrum Bandwidth

Final Test date	Jul. 13, 2009	Test Site No.	TH01-HY
Temperature	25℃	Humidity	54%
Test Engineer	Duncan	Configurations	802.11b/g / Mode 1

Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.12	14.96	500	Complies
6	2437 MHz	10.08	14.96	500	Complies
11	2462 MHz	10.12	15.08	500	Complies

Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.44	16.44	500	Complies
6	2437 MHz	16.44	16.48	500	Complies
11	2462 MHz	16.44	16.44	500	Complies

 SPORTON International Inc.
 Page No.
 : 29 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jul. 13, 2009	Test Site No.	TH01-HY
Temperature	25℃	Humidity	54%
Test Engineer	Duncan	Configurations	802.11b/g / Mode 2

Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.08	15.00	500	Complies
6	2437 MHz	10.08	15.04	500	Complies
11	2462 MHz	10.08	15.24	500	Complies

Configuration IEEE 802.11g

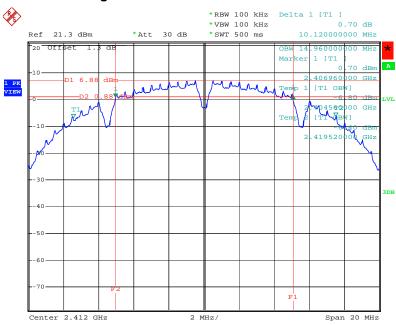
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.40	16.48	500	Complies
6	2437 MHz	16.40	16.48	500	Complies
11	2462 MHz	16.40	16.48	500	Complies

 SPORTON International Inc.
 Page No.
 : 30 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

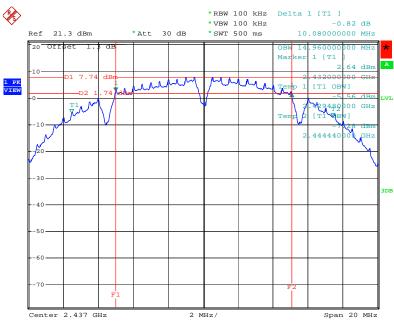
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz / Mode 1



Date: 7.JUL.2009 11:32:53

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz / Mode 1



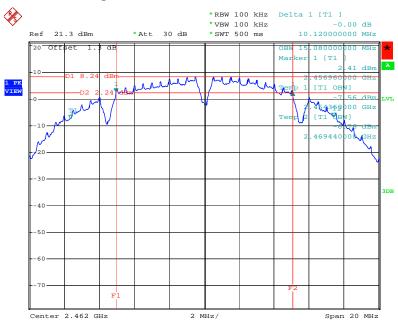
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 SPORTON International Inc.
 Page No. : 31 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz / Mode 1



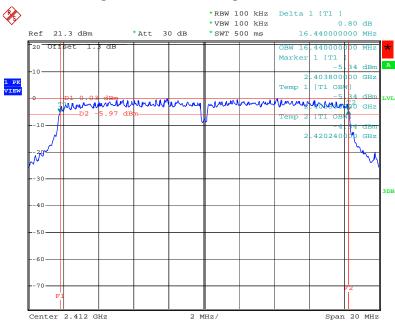
Date: 7.JUL.2009 11:36:08

 SPORTON International Inc.
 Page No.
 : 32 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

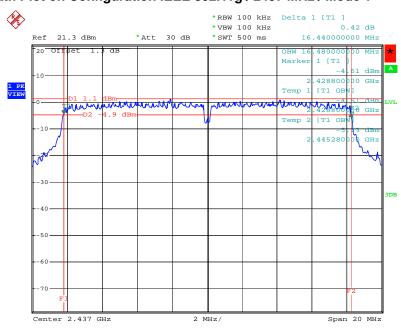
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz / Mode 1



Date: 7.JUL.2009 11:43:50

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz / Mode 1



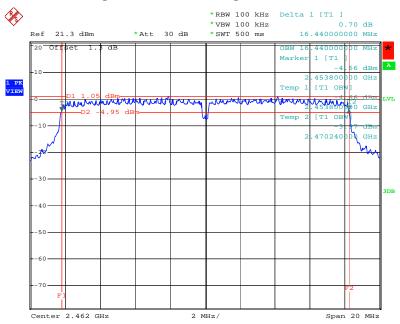
Date: 7.JUL.2009 11:41:42

 SPORTON International Inc.
 Page No. : 33 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz / Mode 1



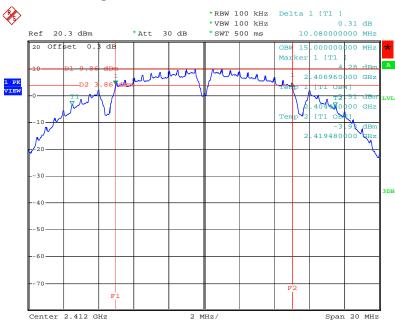
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 SPORTON International Inc.
 Page No.
 : 34 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

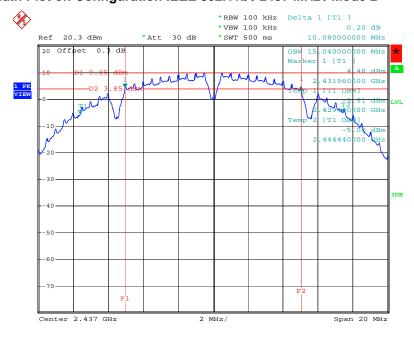
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz / Mode 2



Date: 8.JUL.2009 09:23:40

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz / Mode 2



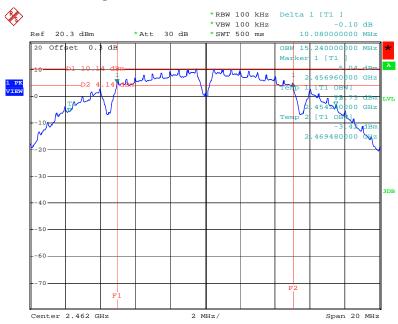
Date: 8.JUL.2009 09:33:21

 SPORTON International Inc.
 Page No. : 35 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz / Mode 2



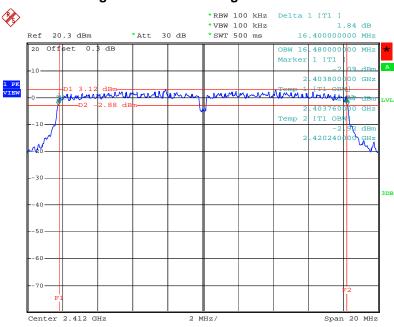
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 SPORTON International Inc.
 Page No.
 : 36 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

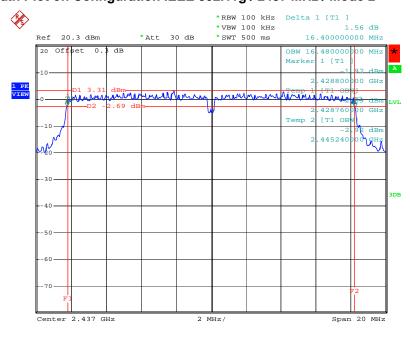
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz / Mode 2



Date: 8.JUL.2009 09:39:22

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz / Mode 2



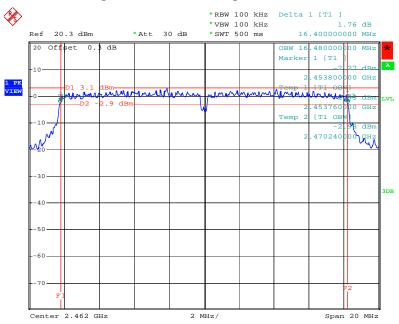
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 SPORTON International Inc.
 Page No. : 37 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz / Mode 2



Date: 8.JUL.2009 09:44:17

 SPORTON International Inc.
 Page No.
 : 38 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

FCC TEST REPORT Report No.: FR962522AC

3.5 Radiated Emissions Measurement

3.5.1 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.5.2 Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100KHz / 100KHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

 SPORTON International Inc.
 Page No.
 : 39 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

FCC TEST REPORT Report No.: FR962522AC

3.5.3 Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak 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.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

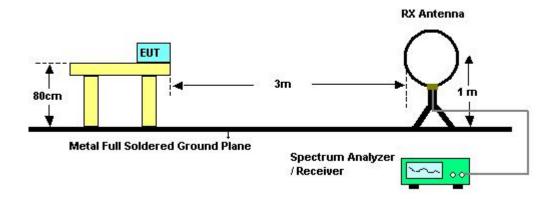
 SPORTON International Inc.
 Page No. : 40 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

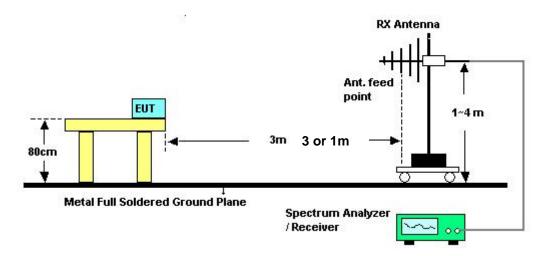
 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

3.5.4 Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

3.5.5 Test Deviation

There is no deviation with the original standard.

3.5.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

 SPORTON International Inc.
 Page No.
 : 41 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

FCC TEST REPORT Report No.: FR962522AC

3.5.7 Results of Radiated Emissions (9kHz~30MHz)

Final Test date	Jul. 01, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky		

Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

 SPORTON International Inc.
 Page No.
 : 42 of 84

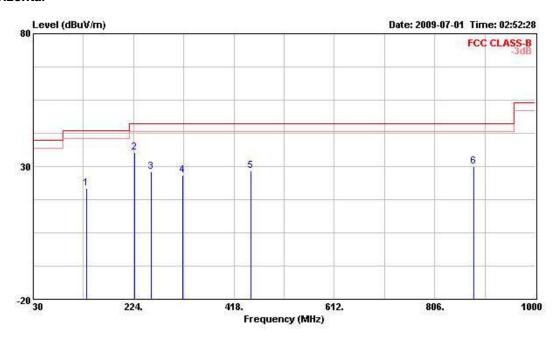
 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

3.5.8 Results of Radiated Emissions (30MHz~1GHz)

Final Test date	Jul. 01, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 6 / Mode 1

Horizontal

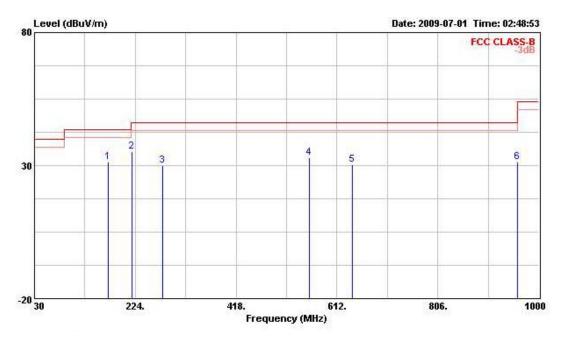


	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB -	cm	deg	9
1	132.820	21.71	-21.79	43.50	37.58	12.57	2.30	30.73	32002	222	Peak
2	225.940	35.27	-10.73	46.00	50.64	12.21	2.97	30.55			Peak
3	257.950	27.96	-18.04	46.00	42.16	13.11	3.17	30.48	8050		Peak
4	319.060	26.64	-19.36	46.00	39.59	14.00	3.40	30.36	4735555	\$10000	Peak
5	450.980	28.46	-17.54	46.00	38.12	16.29	4.09	30.05			Peak
6	881.660	29.85	-16.15	46.00	32.74	20.07	5.79	28.75			Peak

 SPORTON International Inc.
 Page No.
 : 43 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



			Over	Limit	Readi	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	<u>dB</u> -	cm.	deg	§
1	171.620	31.28	-12.22	43.50	49.31	10.05	2.58	30.66	.200	200	Peak
2	218.180	35.30	-10.70	46.00	50.97	11.95	2.94	30.56			Peak
3	277.350	30.16	-15.84	46.00	43.91	13.38	3.31	30.44	X = 5 = 5 = 5		Peak
4	559.620	32.85	-13.15	46.00	39.03	19.00	4.55	29.72			Peak
5	641.100	30.20	-15.80	46.00	34.91	19.63	5.10	29.44		1000	Peak
6	960.230	31.43	-22.57	54.00	32.28	21.52	6.09	28.46			Peak

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

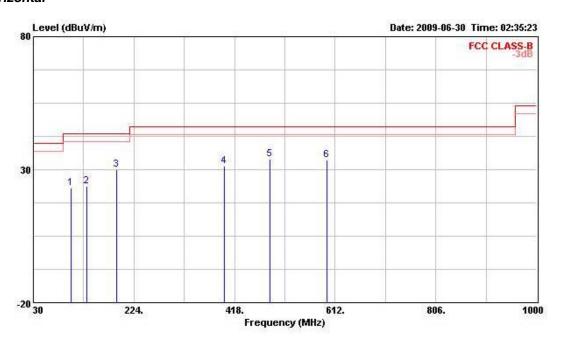
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

 SPORTON International Inc.
 Page No. : 44 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 6 / Mode 2

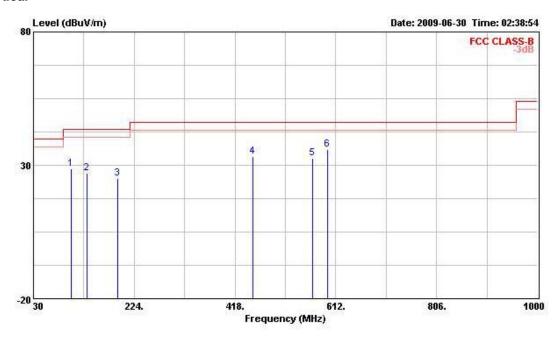


	Freq	Level	Over Limit	100 Sept 1995 (1)		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	dB	dB -	cm.	deg	
1	102.750	23.00	-20.50	43.50	40.20	11.53	2.07	30.79	100		Peak
2	132.820	23.82	-19.68	43.50	39.69	12.57	2.30	30.73			Peak
3	191.020	30.08	-13.42	43.50	47.27	10.70	2.73	30.62			Peak
4	397.630	31.21	-14.79	46.00	42.29	15.22	3.90	30.21		V707	Peak
5	485.900	33.83	-12.17	46.00	42.52	17.00	4.25	29.94	252		Peak
6	595.510	33.57	-12.43	46.00	38.36	20.04	4.78	29.61			Peak

 SPORTON International Inc.
 Page No.
 : 45 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



			Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB -	cm	deg	
1	102.750	28.76	-14.74	43.50	45.96	11.53	2.07	30.79	3202	1222	Peak
2	132.820	27.20	-16.30	43.50	43.07	12.57	2.30	30.73			Peak
3	191.990	24.94	-18.56	43.50	42.04	10.77	2.75	30.62	45055		Peak
4	451.950	33.13	-12.87	46.00	42.77	16.31	4.09	30.04			Peak
5	567.380	32.71	-13.29	46.00	38.59	19.22	4.59	29.70			Peak
6 @	595.510	35.98	-10.02	46.00	40.77	20.04	4.78	29.61	~ ~~~~	1600	Peak

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

 SPORTON International Inc.
 Page No.
 : 46 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

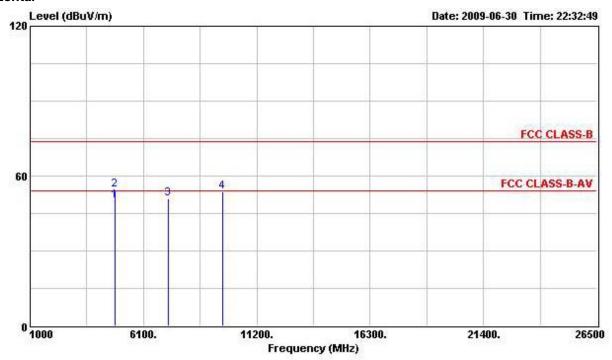
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Report No.: FR962522AC

3.5.9 Results for Radiated Emissions (1GHz~10th Harmonic)

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11b CH 1 / Mode 1

Horizontal



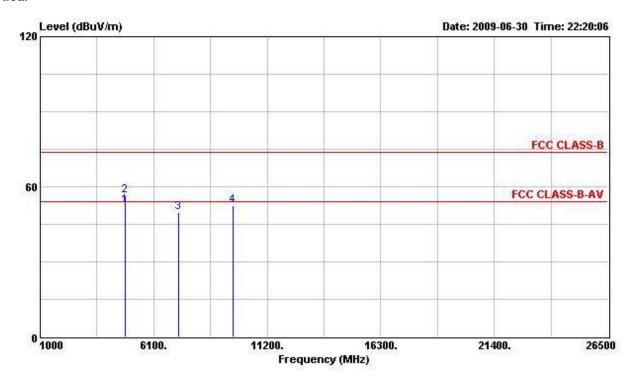
	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	7
1 @	4823.988	49.97	-4.03	54.00	44.97	35.76	4.18	34.94			Average
2	4823.988	54.64	-19.36	74.00	49.64	35.76	4.18	34.94			Peak
3	7236.000	50.90			42.88	37.85	5.43	35.25	4.75.75		PEAK
4	9648.000	53.66			43.27	39.39	6.71	35.70			PEAK

Note: An item 3 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 47 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



			Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB -	cm	deg	:
10	4824.060	52.33	-1.67	54.00	47.96	35.13	4.18	34.94	52100	-122	Average
2	4824.060	56.42	-17.58	74.00	52.05	35.13	4.18	34.94			Peak
3	7236.000	49.55			42.48	36.90	5.43	35.25	8050		PEAK
4	9648.000	52.66			43.06	38.59	6.71	35.70	97000	RF-755	PEAK

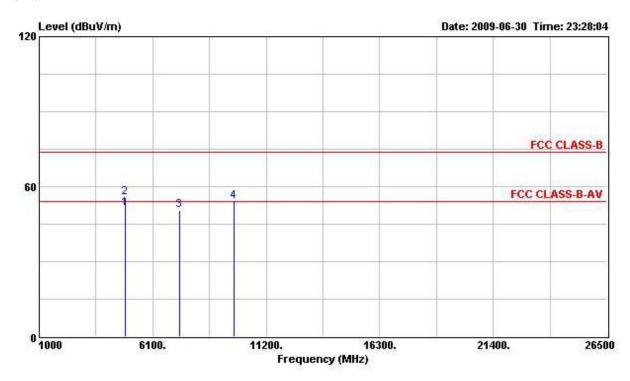
Note: An item 3 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 48 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11b CH 6 / Mode 1



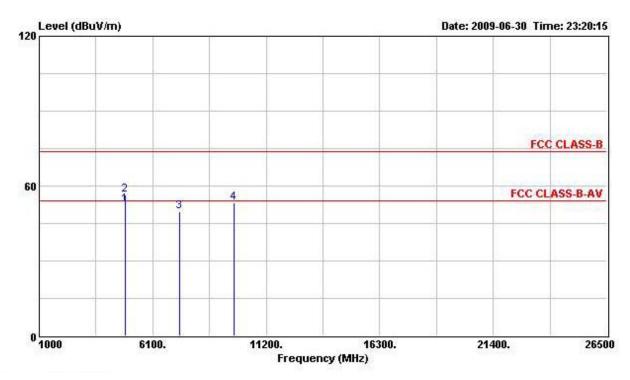
			Over	Limit	Readi	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB -	cm	deg	
1 @	4874.076	51.24	-2.76	54.00	46.18	35.83	4.16	34.93	52000	-222	Average
2	4874.076	55.85	-18.15	74.00	50.79	35.83	4.16	34.93			Peak
3 @	7311.000	50.62	-3.38	54.00	42.66	37.86	5.36	35.26	-		PK
4	9748.000	53.93			43.35	39.51	6.77	35.70	97000	87.754	PEAK

Note: An item 4 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 49 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	дв		cm	deg	6
10	4874.056	52.60	-1.40	54.00	48.19	35.18	4.16	34.93			Average
2	4874.056	56.56	-17.44	74.00	52.15	35.18	4.16	34.93			Peak
3 @	7311.000	49.81	-4.19	54.00	42.79	36.92	5.36	35.26	2000		PK
4	9748.000	53.28			43.50	38.71	6.77	35.70			PEAK

Note: An item 4 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 50 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

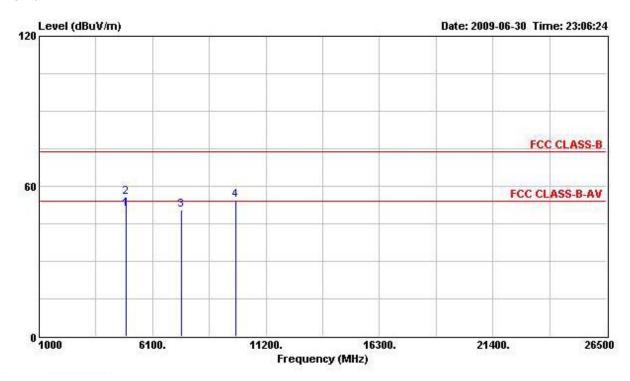
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Report No.: FR962522AC

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Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11b CH 11 / Mode 1

Horizontal



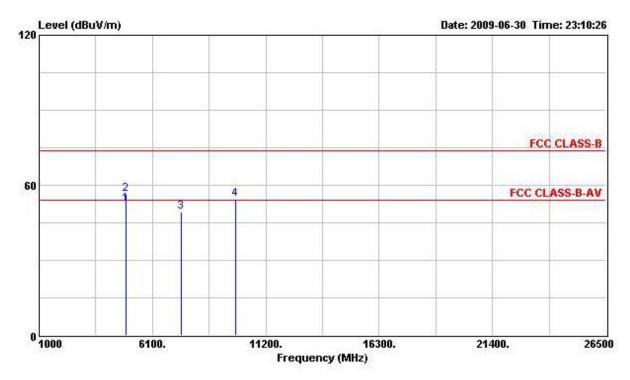
			0ver			Antenna			0.000	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
10	4924.044	51.00	-3.00	54.00	45.88	35.90	4.14	34.92			Average
2	4924.044	55.62	-18.38	74.00	50.50	35.90	4.14	34.92			Peak
3 @	7386.000	50.52	-3.48	54.00	42.65	37.88	5.27	35.28	-		PK
4	9848.000	54.45			43.68	39.61	6.85	35.70			PEAK

Note: An item 4 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 51 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB -	cm.	deg	
1 0	4924.072	52.38	-1.62	54.00	47.93	35.23	4.14	34.92		-	Average
2	4924.072	56.29	-17.71	74.00	51.84	35.23	4.14	34.92			Peak
3 @	7386.000	49.43	-4.57	54.00	42.47	36.96	5.27	35.28	2700	4.77.77	PK
4	9848.000	54.65			44.68	38.81	6.85	35.70			PEAK

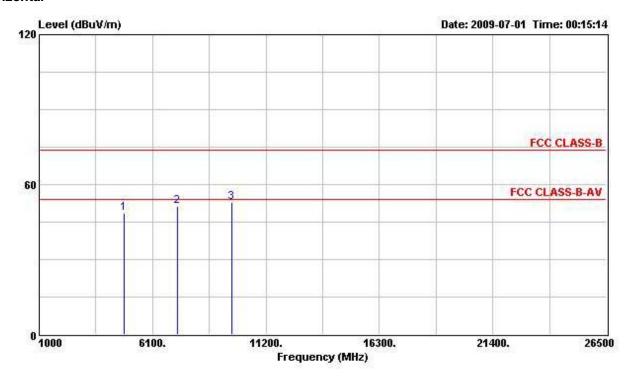
Note: An item 4 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 52 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jul. 01, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 1 / Mode 1



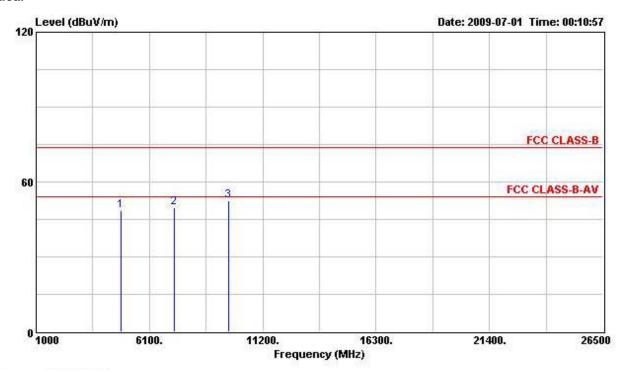
			Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB -	cm	deg	
10	4824.000	48.66	-5.34	54.00	43.66	35.76	4.18	34.94	52000	2_	PK
2	7236.000	51.35			43.32	37.85	5.43	35.25	3-20-		PEAK
3	9648.000	52.84			42.44	39.39	6.71	35.70	80.50		PEAK

Note: An item 2 and 3 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 53 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



			0ver	V 03310 7771000		Antenna			Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB -	cm	deg	Ki
1 @	4824.000	48.41	-5.59	54.00	44.04	35.13	4.18	34.94			PK
2	7236.000	49.64			42.57	36.90	5.43	35.25			PEAK
3	9648.000	52.53			42.94	38.59	6.71	35.70	-		PEAK

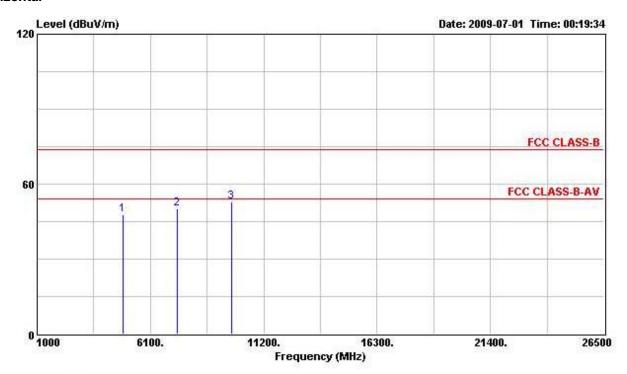
Note: An item 2 and 3 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 54 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jul. 01, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 6 / Mode 1



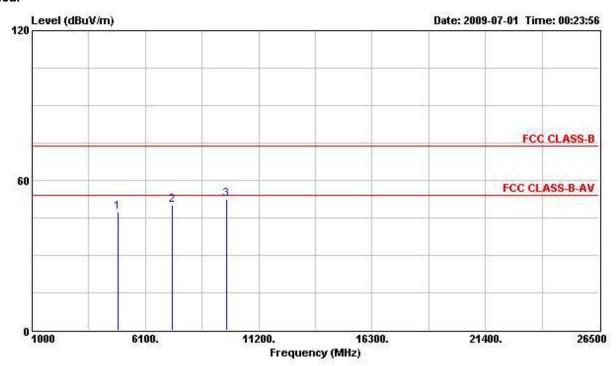
	Freq	Level	Over Limit			Antenna Factor			Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
10	4874.000	47.87	-6.13	54.00	42.81	35.83	4.16	34.93		444	PK
2 @	7311.000	50.03	-3.97	54.00	42.07	37.86	5.36	35.26	C-1100	1000	PK
3	9748.000	52.94			42.36	39.51	6.77	35.70	×5055		PEAK

Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 55 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
10	4874.000	47.48	-6.52	54.00	43.07	35.18	4.16	34.93	52.000	222	PK
2 @	7311.000	49.97	-4.03	54.00	42.95	36.92	5.36	35.26		SOLUTION OF	PK
3	9748.000	52.51			42.73	38.71	6.77	35.70	8050		PEAK

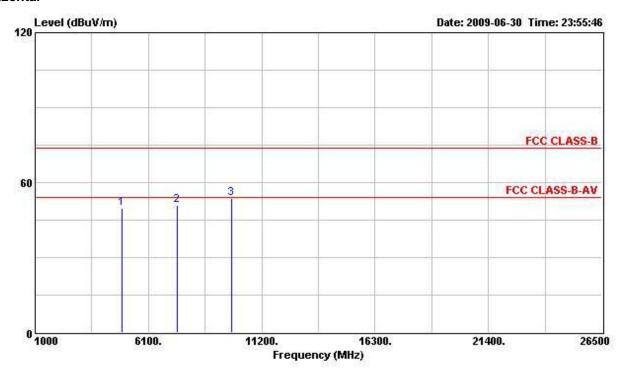
Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 56 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 11 / Mode 1



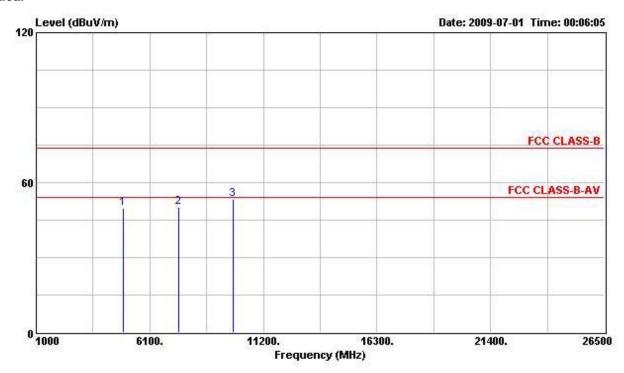
	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB -	can	deg	
1 @	4924.000	49.70	-4.30	54.00	44.57	35.90	4.14	34.92	523300	1000	PK
2 @	7386.000	50.99	-3.01	54.00	43.11	37.88	5.27	35.28			PK
3	9848.000	53.75			42.98	39.61	6.85	35.70			PEAK

Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 57 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos		Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	4924.000	49.93	-4.07	54.00	45.48	35.23	4.14	34.92		444	PK
2 @	7386.000	49.94	-4.06	54.00	42.99	36.96	5.27	35.28	C-1110	1	PK
3	9848.000	53.21			43.24	38.81	6.85	35.70	×5055		PEAK

Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

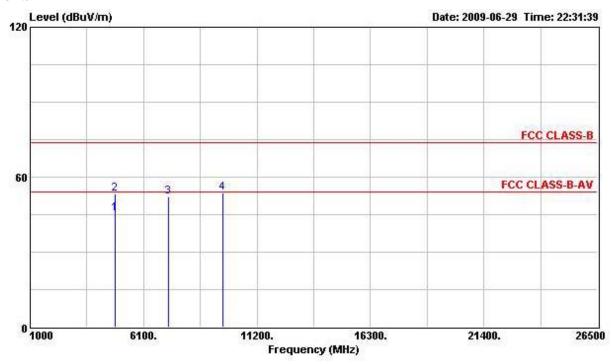
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

 SPORTON International Inc.
 Page No.
 : 58 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 29, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11b CH 1 / Mode 2



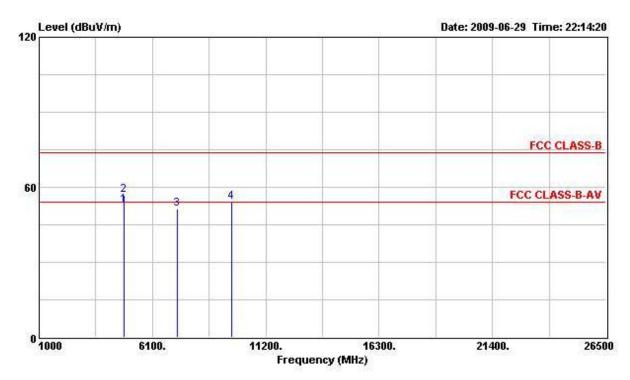
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB -	cm	deg	
1 @	4823.976	45.46	-8.54	54.00	40.05	35.76	4.58	34.94	<u> </u>	1444	Average
2	4823.976	53.26	-20.74	74.00	47.86	35.76	4.58	34.94			Peak
3	7236.000	52.09			43.87	37.85	5.63	35.25	X75.53	47.77	Peak
4	9648.000	53.64			43.61	39.39	6.34	35.70			Peak

Note: An item 3 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 59 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



			Over	Limit	Readi	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB -	cm	deg	
1 @	4824.030	52.85	-1.15	54.00	48.08	35.13	4.58	34.94	52202	F2/2/2	Average
2	4824.030	56.83	-17.17	74.00	52.06	35.13	4.58	34.94			Peak
3	7236.000	51.34			44.07	36.90	5.63	35.25	8000	-	Peak
4	9644.000	54.26			45.05	38.57	6.34	35.70	0.000	0.000	Peak

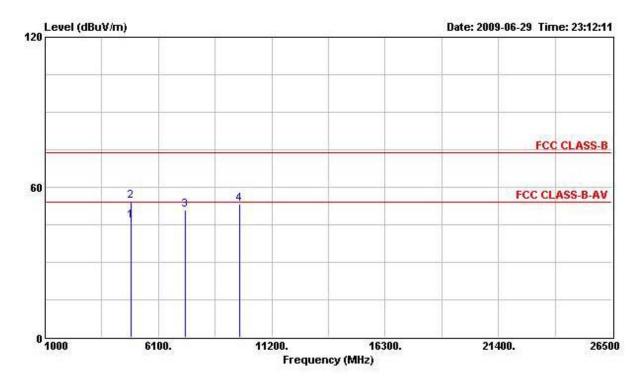
Note: An item 3 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 60 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 29, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11b CH 6 / Mode 2



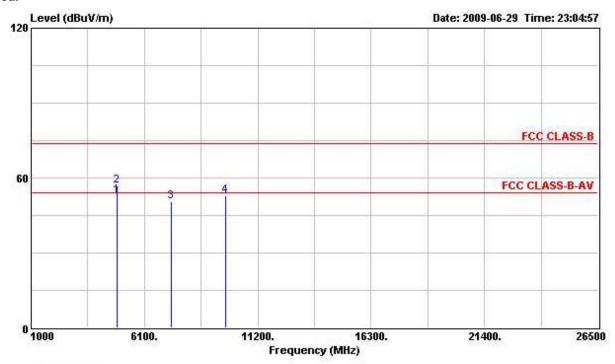
	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	4874.036	46.70	-7.30	54.00	41.19	35.83	4.61	34.93	1500	122	Average
2	4874.036	54.28	-19.72	74.00	48.76	35.83	4.61	34.93			Peak
3 @	7311.000	50.94	-3.06	54.00	42.70	37.86	5.64	35.26	1000	-	PK
4	9748.000	53.40			43.24	39.51	6.36	35.70	1777	×7.75	Peak

Note: An item 4 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 61 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



	-		Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
		dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1 @	4874.028	52.87	-1.13	54.00	48.00	35.18	4.61	34.93	1444	1222	Average	
2	4874.028	57.01	-16.99	74.00	52.14	35.18	4.61	34.93	3444		Peak	
3 @	7311.000	50.62	-3.38	54.00	43.32	36.92	5.64	35.26	1000	ERTOR	PK	
4	9748.000	53.05			43.69	38.71	6.36	35.70			Peak	

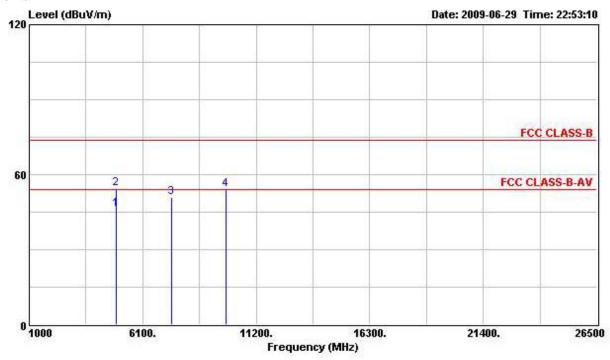
Note: An item 4 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 62 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 29, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11b CH 11 / Mode 2



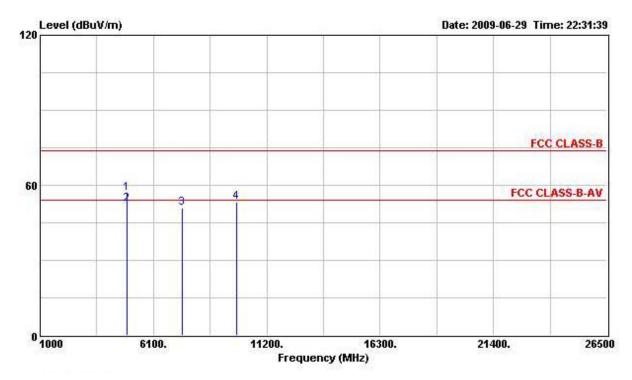
	Freq	Level	Over Limit	V. C.		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MKz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	ав	dB -	cm	deg	
1 @	4924.004	46.16	-7.84	54.00	40.50	35.90	4.68	34.92			Average
2	4924.004	54.43	-19.57	74.00	48.77	35.90	4.68	34.92			Peak
3 @	7386.000	50.91	-3.09	54.00	42.66	37.88	5.65	35.28			PK
4	9848.000	54.15			43.86	39.61	6.38	35.70			Peak

Note: An item 4 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 63 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



				Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
		Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
		MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB -	cm	deg	
1	e.	4924.008	56.80	-17.20	74.00	51.81	35.23	4.68	34.92	2222	1200	Peak
2	e e	4924.008	52.63	-1.37	54.00	47.64	35.23	4.68	34.92	-	1000	Average
3	e .	7386.000	50.73	-3.27	54.00	43.40	36.96	5.65	35.28	17.77	SECTION .	PK
4		9848.000	53.14			43.65	38.81	6.38	35.70			Peak

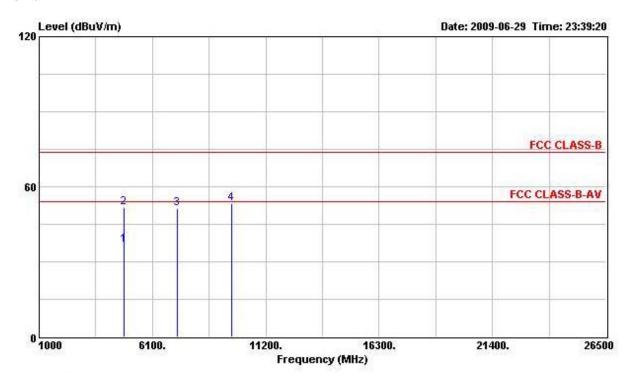
Note: An item 4 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 64 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 29, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 1 / Mode 2



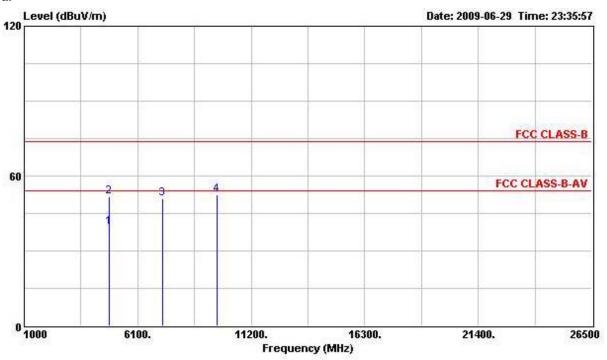
			Over	Limit	Readi	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MX	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	cm	deg	
1	4824.104	36.57	-17.43	54.00	31.17	35.76	4.58	34.94		222	Average
2	4824.104	51.52	-22.48	74.00	46.12	35.76	4.58	34.94			Peak
3	7236.000	51.40			43.17	37.85	5.63	35.25	45055		Peak
4	9648.000	53.44			43.41	39.39	6.34	35.70			Peak

Note: An item 3 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 65 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



	Fre	q Level	Over Limit	STATE OF STREET		Antenna Factor		Preamp Factor	Ant Pos		Remark
		z dBuV/m	dB	dBuV/m	dBuV	dB/m	dB		- cm	deg	1
1	4824.05	0 39.48	-14.52	54.00	34.70	35.13	4.58	34.94	2222	1222	Average
2	4824.05	0 51.58	-22.42	74.00	46.81	35.13	4.58	34.94			Peak
3	7236.00	0 50.97			43.70	36.90	5.63	35.25	25.55		Peak
4	9648.00	0 52.50			43.27	38.59	6.34	35.70			Peak

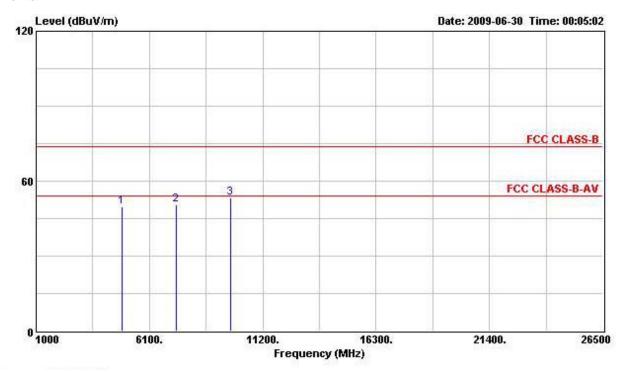
Note: An item 3 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 66 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 6 / Mode 2



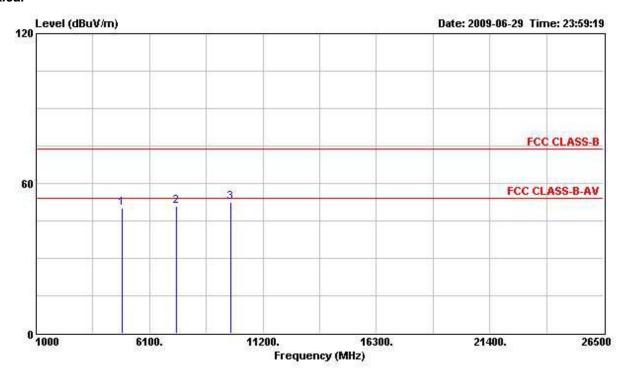
	Freq	Level	Over Limit			Antenna Factor			Ant Pos	Table Pos	Remark
	MHz	MHz dBuV/m	dB	dBuV/m	dBuV	dB/m	dB/m dB	B dB	cm	deg	
1 @	4874.000	49.84	-4.16	54.00	44.32	35.83	4.61	34.93			PK
2 @	7311.000	50.48	-3.52	54.00	42.24	37.86	5.64	35.26	-	-	PK
3	9748.000	53.21			43.05	39.51	6.36	35.70	85557		Peak

Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 67 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	MHz dBuV/m d	dB	dBuV/m d	dBuV	dB/m	dB	dB dB	cm	deg	E
1 @	4874.000	49.94	-4.06	54.00	45.07	35.18	4.61	34.93	52200	122	PK
2 @	7311.000	50.98	-3.02	54.00	43.68	36.92	5.64	35.26	- Table	STATE OF THE PARTY.	PK
3	9748.000	52.68			43.31	38.71	6.36	35.70	8055	-	Peak

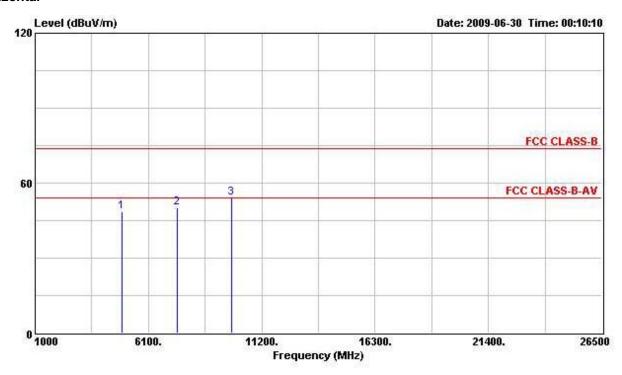
Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 68 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 11 / Mode 2



	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor		Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	дв	dB -	cm	deg	5
10	4924.000	48.40	-5.60	54.00	42.74	35.90	4.68	34.92		1024	PK
2 @	7386.000	50.30	-3.70	54.00	42.05	37.88	5.65	35.28	2 4 000	1	PK
3	9848.000	54.04			43.75	39.61	6.38	35.70	×5.55	40.00	Peak

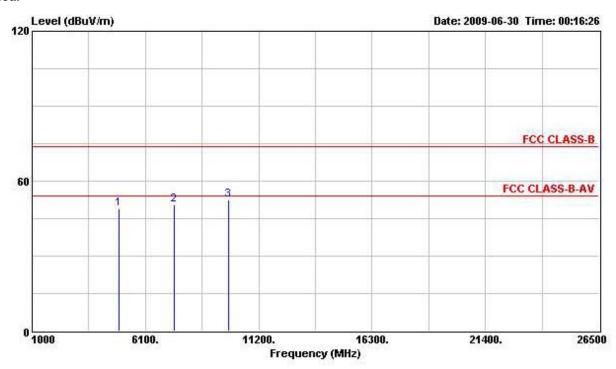
Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

 SPORTON International Inc.
 Page No.
 : 69 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Vertical



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB -	cm	deg	
1 @	4924.000	49.04	-4.96	54.00	44.05	35.23	4.68	34.92			PK
2 @	7386.000	50.56	-3.44	54.00	43.23	36.96	5.65	35.28	COOK T		PK
3	9848.000	52.67			43.18	38.81	6.38	35.70			Peak

Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

 SPORTON International Inc.
 Page No.
 : 70 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

FCC TEST REPORT Report No.: FR962522AC

3.6 Band Edge and Fundamental Emissions Measurement

3.6.1 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.6.2 Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

3.6.3 Test Procedures

- 1. The test procedure is the same as section 3.5.3; only the frequency range investigated is limited to 100MHz around band edges.
- 2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

3.6.4 Test Setup Layout

This test setup layout is the same as that shown in section 3.5.4.

3.6.5 Test Deviation

There is no deviation with the original standard.

3.6.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

 SPORTON International Inc.
 Page No. : 71 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

3.6.7 Test Result of Band Edge and Fundamental Emissions

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11b CH 1, 6, 11 / Mode 1

Channel 1

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB -	cm	deg	
1	2371.370	61.01	-12.99	74.00	26.24	31.72	3.05	0.00	3202	1222	Peak
2 @	2412.980	101.53			66.60	31.86	3.08	0.00	-	STATES	Peak
1 @	2386.570	48.34	-5.66	54.00	13.49	31.79	3.07	0.00			Average
2 @	2412.980	96.60			61.67	31.86	3.08	0.00			Average

An item 2 is Fundamental Emissions.

Channel 6

	Freq	Level		Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB -	cm	deg	
1 0	2435.970	102.25			67.24	31.92	3.08	0.00	1555	1200	Peak
1 @	2436.540	97.45			62.36	31.99	3.09	0.00	51110	222	Average

An item 1 is Fundamental Emissions.

Channel 11

	Freq	Level	Over Limit	TO STATE OF THE STATE OF		intenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB -	cm	deg	
10	2463.140	103.71			68.55	32.06	3.10	0.00	1555	1200	Peak
2	2485.180	61.44	-12.56	74.00	26.20	32.13	3.11	0.00			Peak
10	2462.570	98.80			63.64	32.06	3.10	0.00	1200	1111	Average
2 @	2483.500	48.76	-5.24	54.00	13.52	32.13	3.11	0.00	اللا فيلونين و	HERE	Average

An item 1 is Fundamental Emissions.

Note:

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

 SPORTON International Inc.
 Page No.
 : 72 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 1, 6, 11 / Mode 1

Channel 1

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB	cm	deg	-
1	2388.090	61.06	-12.94	74.00	26.21	31.79	3.07	0.00	2222	1222	Peak
2 @	2404.810	94.45			59.52	31.86	3.08	0.00	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	Peak
10	2388.660	47.60	-6.40	54.00	12.75	31.79	3.07	0.00	1202	1000	Average
2 @	2405.570	83.94			49.01	31.86	3.08	0.00	عديدي	1444	Average

An item 2 is Fundamental Emissions.

Channel 6

			Over	Limit	Readi	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
10	2432.930	95.13			60.12	31.92	3.08	0.00	1000	1222	Peak
10	2434.260	84.76			49.75	31.92	3.08	0.00		(LEE	Average

An item 1 is Fundamental Emissions.

Channel 11

			Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB -	cm	deg	
1 @	2466.940	95.47			60.31	32.06	3.10	0.00	821202	-222	Peak
2	2489.170	60.75	-13.25	74.00	25.43	32.20	3.12	0.00			Peak
10	2468.460	85.02			49.86	32.06	3.10	0.00		222	Average
2 @	2496.770	48.13	-5.87	54.00	12.81	32.20	3.12	0.00	-	THOUGH	Average

An item 1 is Fundamental Emissions.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

 SPORTON International Inc.
 Page No.
 : 73 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11b CH 1, 6, 11 / Mode 2

Channel 1

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB -	cm	deg	Į.
1	2370.420	60.63	-13.37	74.00	25.67	31.97	2.99	0.00		1822	Peak
2 @	2412.980	109.70			74.59	32.09	3.02	0.00	-	1 100000	Peak
1 @	2370.420	47.15	-6.85	54.00	12.19	31.97	2.99	0.00		1200	Average
2 @	2411.460	104.97			69.86	32.09	3.02	0.00	-	STATE OF STREET	Average

An item 2 is Fundamental Emissions.

Channel 6

	Freq	Level		Limit Line		Antenna Factor		Preamp Factor	Ant Pos		Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	n dB	dB	cm	deg	
10	2435.970	107.46			72.26	32.15	3.05	0.00	<u> </u>	1220	Peak
1 @	2436.540	102.75			67.49	32.21	3.05	0.00			Average

An item 1 is Fundamental Emissions.

Channel 11

	Tues.	Tawal	Over Limit	Limit		Antenna Factor		Preamp Factor	Ant Pos		Remark
	rreq	rever	пппс	TIME	reser	Factor	LUSS	FACCUE	Pus	PUS	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	0 0 0 0
10	2463.140	108.85			73.49	32.28	3.08	0.00	822300	-222	Peak
2	2499.050	60.92	-13.08	74.00	25.44	32.40	3.08	0.00	5 -32-4		Peak
1 0	2462.570	103.92			68.56	32.28	3.08	0.00	1200	1111	Average
2 @	2483.500	48.70	-5.30	54.00	13.28	32.34	3.08	0.00	خذيون	STEPS OF	Average

An item 1 is Fundamental Emissions.

Note:

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

 SPORTON International Inc.
 Page No.
 : 74 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Final Test date	Jun. 30, 2009	Test Site No.	03CH02-HY
Temperature	26.9℃	Humidity	51.6%
Test Engineer	Nicky	Configuration	802.11g CH 1, 6, 11 / Mode 2

Channel 1

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	dB	dB -	can	deg	
1	2368.900	60.26	-13.74	74.00	25.30	31.97	2.99	0.00	32552	1520	Peak
2 @	2408.420	104.86			69.75	32.09	3.02	0.00			Peak
1 @	2378.210	46.48	-7.52	54.00	11.52	31.97	2.99	0.00			Average
2 @	2408.610	94.39			59.28	32.09	3.02	0.00			Average

An item 2 is Fundamental Emissions.

Channel 6

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB/m dB	dB	cm	deg	
10	2432.930	104.08			68.88	32.15	3.05	0.00	<u> </u>	1222	Peak
10	2433.690	93.48			58.28	32.15	3.05	0.00	82222	1222	Average

An item 1 is Fundamental Emissions.

Channel 11

			Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB -	cm	deg	7. 75 75 75
10	2466.940	104.21			68.85	32.28	3.08	0.00	821300	-222	Peak
2	2489.740	60.44	-13.56	74.00	24.96	32.40	3.08	0.00			Peak
10	2468.460	93.77			58.41	32.28	3.08	0.00	52000	5222	Average
2 @	2483.500	47.30	-6.70	54.00	11.88	32.34	3.08	0.00			Average

An item 1 is Fundamental Emissions.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

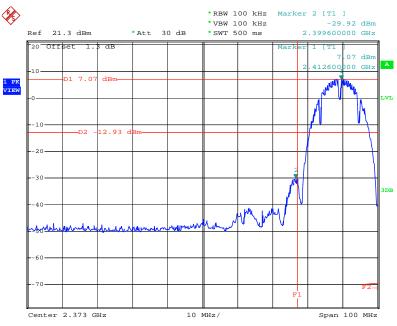
 $\label{eq:corrected_constraints} \mbox{Corrected Reading: Antenna Factor} + \mbox{Cable Loss} + \mbox{Read Level} - \mbox{Preamp Factor} = \mbox{Level}.$

SPORTON International Inc. Page No. : 75 of 84 Issued Date : Jul. 17, 2009 TEL: 886-2-2696-2468 : VYTLP-8617 FCC ID

FAX: 886-2-2696-2255

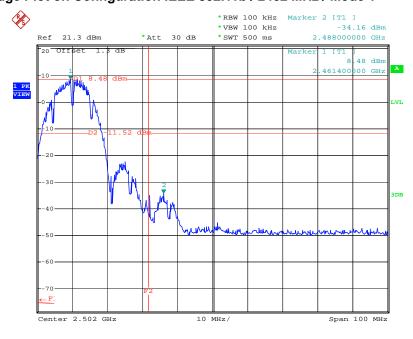
For Emission not in Restricted Band

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz / Mode 1



Date: 7.JUL.2009 14:16:10

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz / Mode 1



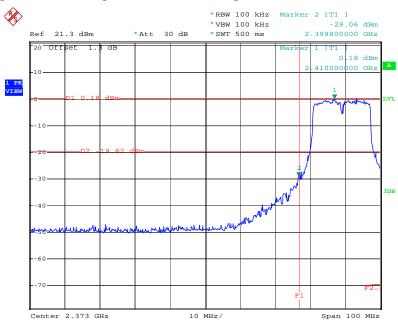
Date: 7.JUL.2009 14:15:01

 SPORTON International Inc.
 Page No.
 : 76 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

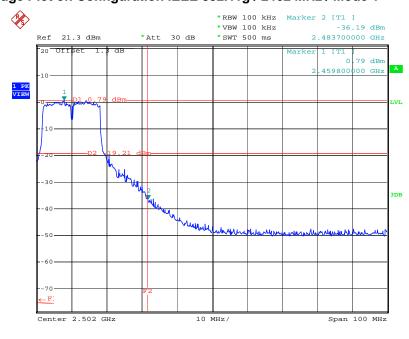
 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz / Mode 1



Date: 7.JUL.2009 14:12:00

High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz / Mode 1



Date: 7.JUL.2009 14:13:23

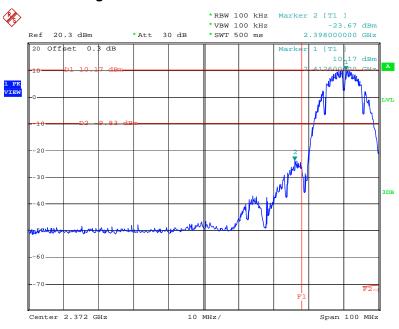
 SPORTON International Inc.
 Page No. : 77 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

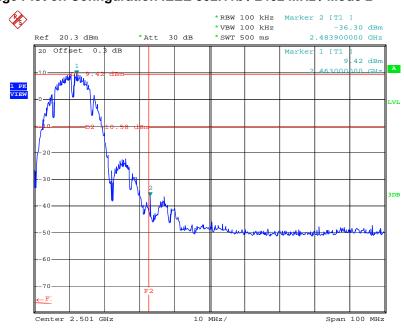
For Emission not in Restricted Band

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz / Mode 2



Date: 8.JUL.2009 10:11:21

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz / Mode 2



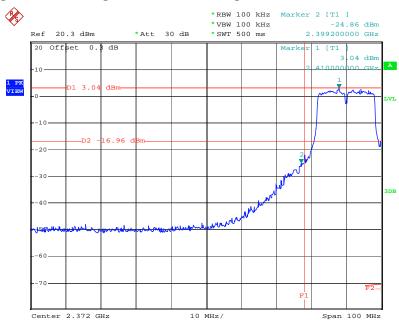
Date: 8.JUL.2009 10:16:28

 SPORTON International Inc.
 Page No.
 : 78 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

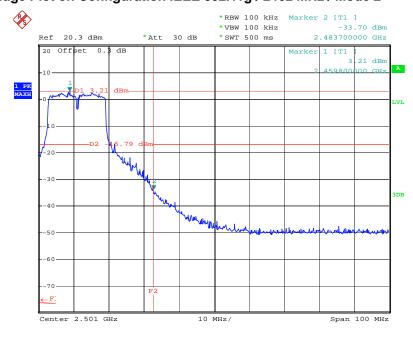
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 FCC ID
 : VYTLP-8617

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz / Mode 2



Date: 8.JUL.2009 10:10:22

High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz / Mode 2



Date: 8.JUL.2009 10:09:13

 SPORTON International Inc.
 Page No.
 : 79 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

FCC TEST REPORT Report No.: FR962522AC

3.7 Antenna Requirements

3.7.1 Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

3.7.2 Antenna Connector Construction

Please refer to section 2.2 in this test report; antenna connector complied with the requirements.

 SPORTON International Inc.
 Page No. : 80 of 84

 TEL: 886-2-2696-2468
 Issued Date : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID : VYTLP-8617

4 LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100132	9kHz – 2.75GHz	Jul. 24, 2008	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/004	9kHz – 30MHz	Mar. 18, 2009	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Feb. 24, 2009	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450Hz	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 – 60Hz	N/A	Conduction (CO01-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832010001	9kHz – 30MHz	May 05, 2009	Conduction (CO01-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30 MHz - 1 GHz 3m	May 11, 2009	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100 kHz – 1.3 GHz	Jul. 07, 2009	Radiation (03CH02-HY)
Spectrum Analyzer	R&S	FSP40	100305/040	9 kHz - 40GHz	Feb. 04, 2009	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30 MHz - 2 GHz	Nov. 30, 2008	Radiation (03CH02-HY)
Turn Table	HD	DS 420	420/649/00	0 - 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	HD	MA 240	240/559/00	1 m - 4 m	N/A	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB020	30 MHz - 1 GHz	Dec. 17, 2008	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz – 26.5 GHz	Jul. 16, 2008	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1GHz~18GHz	Oct. 22, 2008	Radiation (03CH02-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX106	03CH02-HY	1GHz~40GHz	Dec. 17, 2008	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	Jul 28, 2008*	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is one year.

 SPORTON International Inc.
 Page No.
 : 81 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSU26.5	100015	20Hz ~ 26.5GHz	Oct. 29, 2008	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jul. 11, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jul. 11, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 11, 2008	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2009	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-001	N/A	Jul. 18, 2008	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2008	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2008	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Dec. 14, 2008	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 25, 2009	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Jul. 12, 2009*	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is two year.

 SPORTON International Inc.
 Page No.
 : 82 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

5 TEST LOCATION

SHIJR	ADD	:	6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

Report No.: FR962522AC

 SPORTON International Inc.
 Page No.
 : 83 of 84

 TEL: 886-2-2696-2468
 Issued Date
 : Jul. 17, 2009

 FAX: 886-2-2696-2255
 FCC ID
 : VYTLP-8617

FCC TEST REPORT Report No.: FR962522AC

TAF CERTIFICATE OF ACCREDITATION



Certificate No.: L1190-090318

Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.

EMC & Wireless Communications Laboratory

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

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2005

Accreditation Number : 1190

Originally Accredited : December 15, 2003

Effective Period : January 10, 2007 to January 09, 2010

Accredited Scope : Testing Field, see described in the Appendix

: Accreditation Program for Designated Testing Laboratory Specific Accreditation

Program for Commodities Inspection

Accreditation Program for Telecommunication Equipment

Testing Laboratory

Accreditation Program for BSMI Mutual Recognition

Arrangment with Foreign Authorities

Jay-San Chen

President, Taiwan Accreditation Foundation

Date: March 18, 2009

P1, total 19 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix

SPORTON International Inc. Page No. : 84 of 84 TEL: 886-2-2696-2468 Issued Date : Jul. 17, 2009 FCC ID : VYTLP-8617 FAX: 886-2-2696-2255