



SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, TaoYuan Hsien, Taiwan, R.O.C.
Ph: 886-3-327-3456 / FAX: 886-3-327-0973 / www.sporton.com.tw

FCC RADIO TEST REPORT

Applicant's company	Universal Scientific Industrial Co., Ltd.
Applicant Address	141, Lane 351, Taiping Road, Sec.1, Tsao Tuen, Nan-Tou, Taiwan
FCC ID	IXM-TP7500W
Manufacturer's company	Universal Scientific Industrial Co., Ltd.
Manufacturer Address	141, Lane 351, Taiping Road, Sec.1, Tsao Tuen, Nan-Tou, Taiwan

Product Name	TeamPad7500W
Brand Name	FUJITSU FRONTECH LIMITED
Model Name	FHT681XXXR (X=A~Z, 0~9)
Test Rule	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz
Receive Date	Mar. 30, 2006
Test Date	Apr. 6, 2006
Submission Type	Class II Change



Statement

The Submission of the device is class II change only the test results of spurious emission below 1 GHz are shown in this test report.

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.

NVLAQ®

Lab Code: 200079-0

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History of This Test Report

Original Issue Date: Apr. 17, 2006

Report No.: FR411614-04

☒ No additional attachment.

☐ Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

1. CERTIFICATE OF COMPLIANCE

Product Name : TeamPad7500W
Brand Name : FUJITSU FRONTECH LIMITED
Model Name : FHT681XXR (X=A~Z, 0~9)
Applicant : Universal Scientific Industrial Co., Ltd.
Test Rule Part(s) : 47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Mar. 30, 2006 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.



Prepared By:
Tina Jao / Specialist



Technical Acceptance By:
Carl Lee / Engineer



Reviewed By:
Wayne Hsu / Supervisor

2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	Rule Section	Description of Test	Result	Under Limit
3.11	15.247(d)	Radiated Emissions	Complies	1.02 dB
3.12	15.203	Antenna Requirements	Complies	-

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	$\pm 2.26\text{dB}$	Confidence levels of 95%
Maximum Peak Conducted Output Power	$\pm 0.5\text{dB}$	Confidence levels of 95%
Hopping Channel Separation / Dwell Time	$\pm 6.25 \times 10^{-7}$	Confidence levels of 95%
Radiated Emissions / Band Edge Emissions	$\pm 3.72\text{dB}$	Confidence levels of 95%

3. GENERAL INFORMATION

3.1. Product Details

The EUT (model: FHT681XXXX (X=A~Z, 0~9)), is a modified version of original device, TeamPad 7500W (model: FHTLA681, FCC ID No.: IXM-TP7500W). The difference is that the manufacture process of the EUT is changed to Lead-free manufacture process. The radio detail of Bluetooth and WLAN Radiation Emissions is shown in the table below. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

Items	Description
Radio Type	Intentional Transceiver
Power Type	12V DC from adapter; 3.3V DC from host
Interface Type	Headphone output jack / AC/DC power jack / Auxiliary AC/DC power input / 2 USB Host Ports / USB client for sync with desktop PC / Serial port
Modulation	DSSS for IEEE 802.11b ; OFDM for IEEE 802.11g ; FHSS (GFSK)
Frequency Range	2400 ~ 2483.5MHz
Channel Number	Bluetooth: 79; WLAN: 11
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

3.2. Accessories

Power	Brand	Model	Rating
Adapter 1	SANKEN	0342560	INPUT: 100~240V AC OUTPUT: 12V DC
Charger Desktop	-	-	12V DC
Others			
NA			

3.3. Table for Filed Antenna

Ant.	Antenna Type	Connector	Gain (dBi)	Remark
1	Chip Antenna	FIX	-2.40	Bluetooth
2	PCB Antenna	I-PEX	1.50	WLAN

3.4. Table for Carrier Frequencies

Frequency Allocation for Bluetooth

Frequency Band	Channel No.	Frequency
2400 ~ 2483.5MHz	0	2402 MHz
	1	2403 MHz
	:	:
	38	2440 MHz
	39	2441 MHz
	40	2442 MHz
	:	:
	77	2479 MHz
	78	2480 MHz

Frequency Allocation for 802.11b/g

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

3.5. 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 all the possible configurations 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	Antenna
Radiated Emissions Below 1GHz	GFSK	1 Mbps	39	1
	11g/BPSK	6 Mbps	6	2

3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	101377	IC 4088	-

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

Please refer section 6 for Test Site Address.

3.7. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	D400	DoC
Modem	ACEEX	DM-1414	IFAXDM1414
Flash	CREATE	-	-

3.8. Table for Supporting Units

The EUT was tested alone.

3.9. Table for Parameters of Test Software Setting

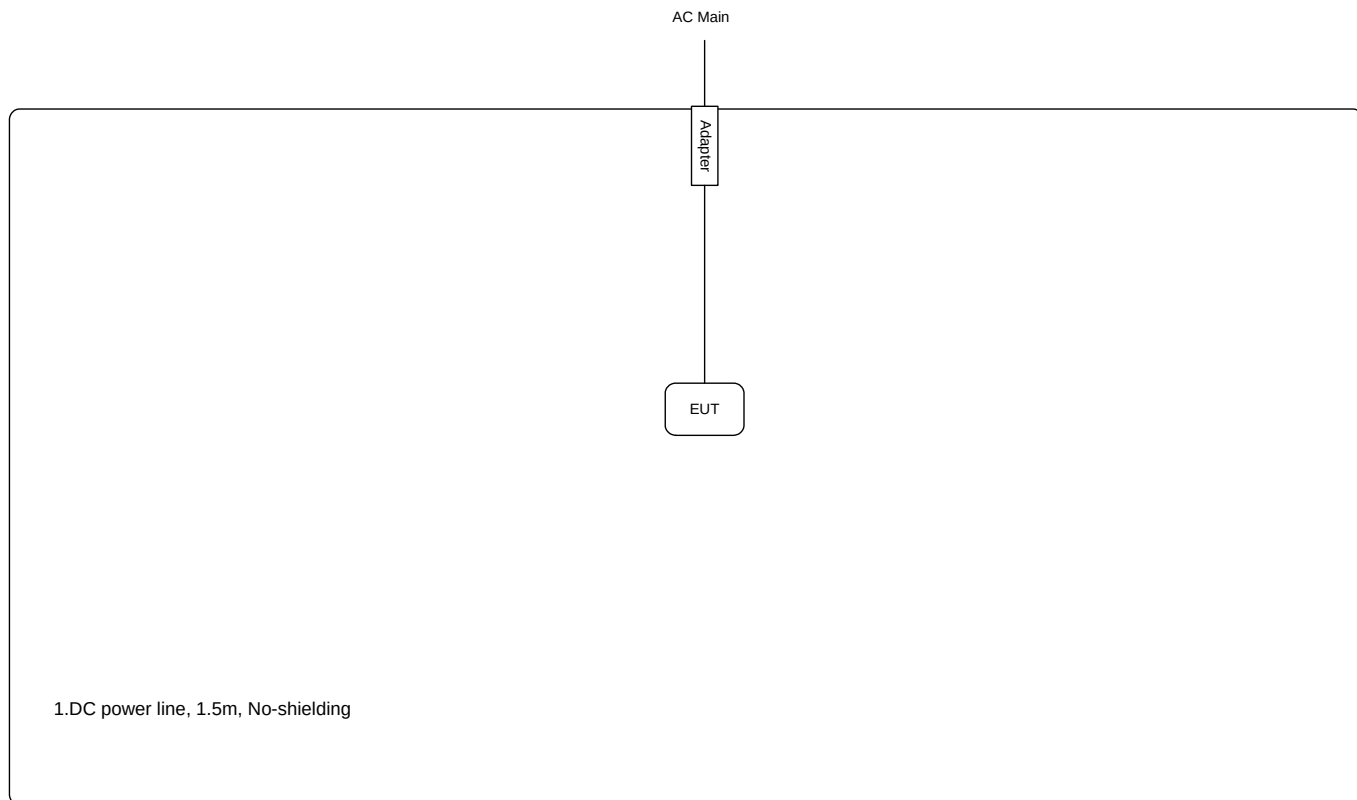
During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Power Parameters of Bluetooth

Test Software Version	wm-bg-mr		
Frequency	2402 MHz	2441 MHz	2480 MHz
Power Parameters	63	63	63

3.10. Test Configurations

3.10.1. Radiation Emissions Test Configuration



3.11. Radiated Emissions Measurement

3.11.1. 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 (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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

3.11.2. Measuring Instruments and Setting

Please refer to section 5 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 (other emission)	100KHz / 100KHz for peak

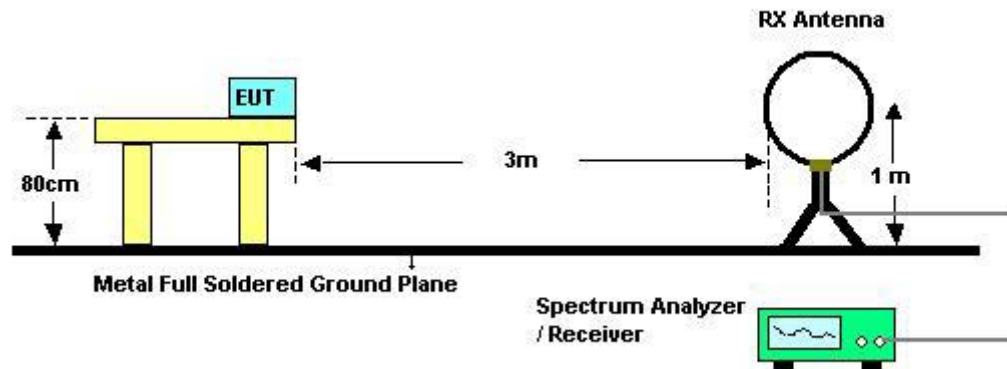
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz ~ 150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz ~ 30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz ~ 1000MHz / RB 120kHz for QP

3.11.3. Test Procedures

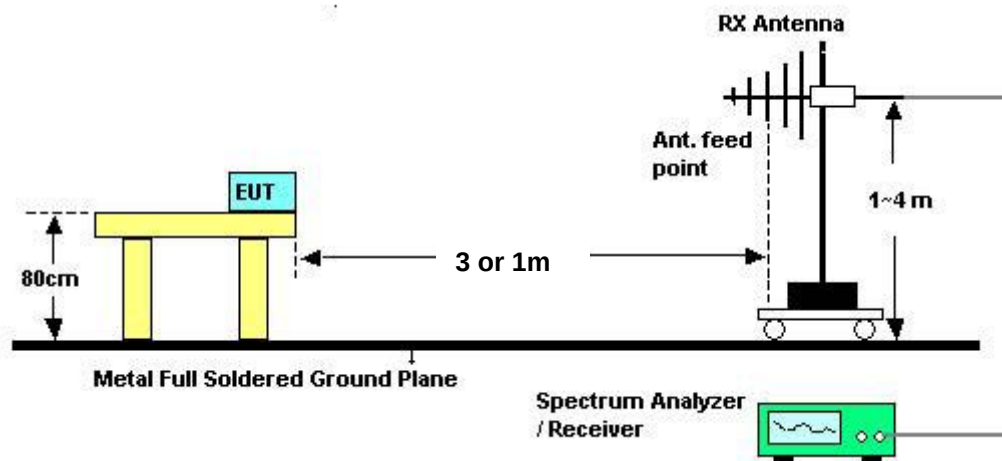
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting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

3.11.4. 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 from 3m to 1m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB);

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

3.11.5. Test Deviation

There is no deviation with the original standard.

3.11.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.11.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	24°C	Humidity	58%
Test Engineer	Vic	Configurations	Channel 39/6

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

Note:

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

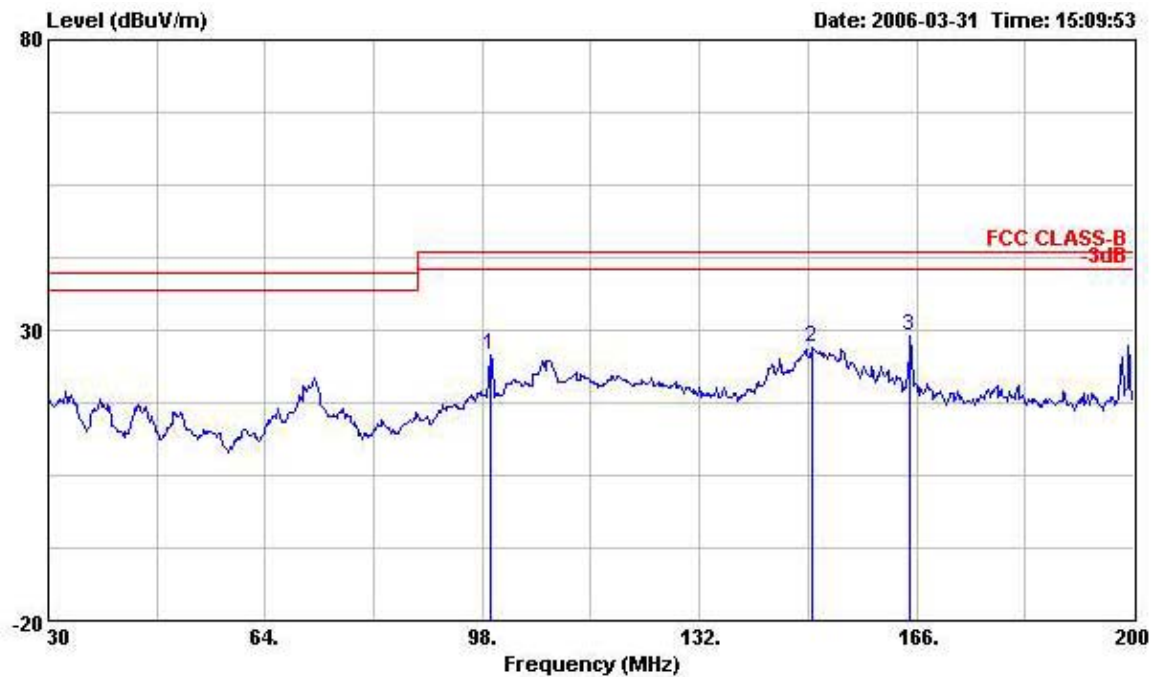
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

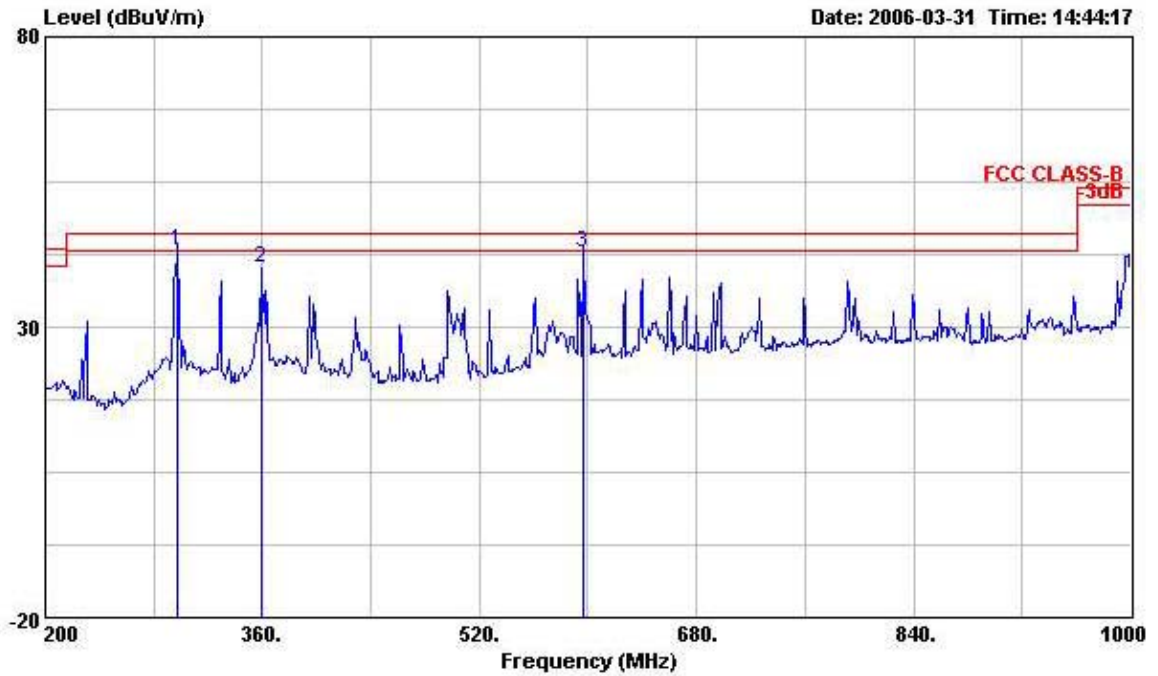
3.11.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	24°C	Humidity	58%
Test Engineer	Vic	Configurations	Bluetooth Channel 39

Horizontal

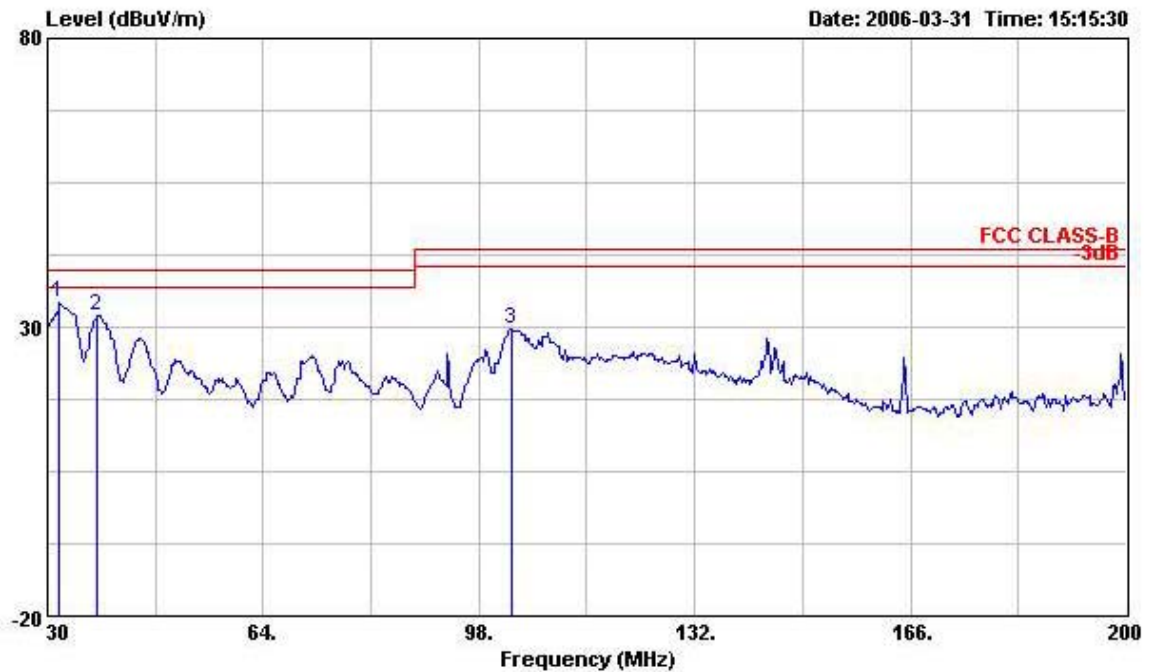


	Freq	Level	Over Limit	Read Level	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV	dBuV/m	dB/m	dB	dB		cm	deg
1	99.190	25.82	-17.68	45.54	43.50	8.96	1.40	30.08	Peak	---	---
2	149.510	26.92	-16.58	43.27	43.50	11.94	1.88	30.17	Peak	---	---
3	164.980	28.92	-14.58	44.03	43.50	13.14	1.98	30.24	Peak	---	---

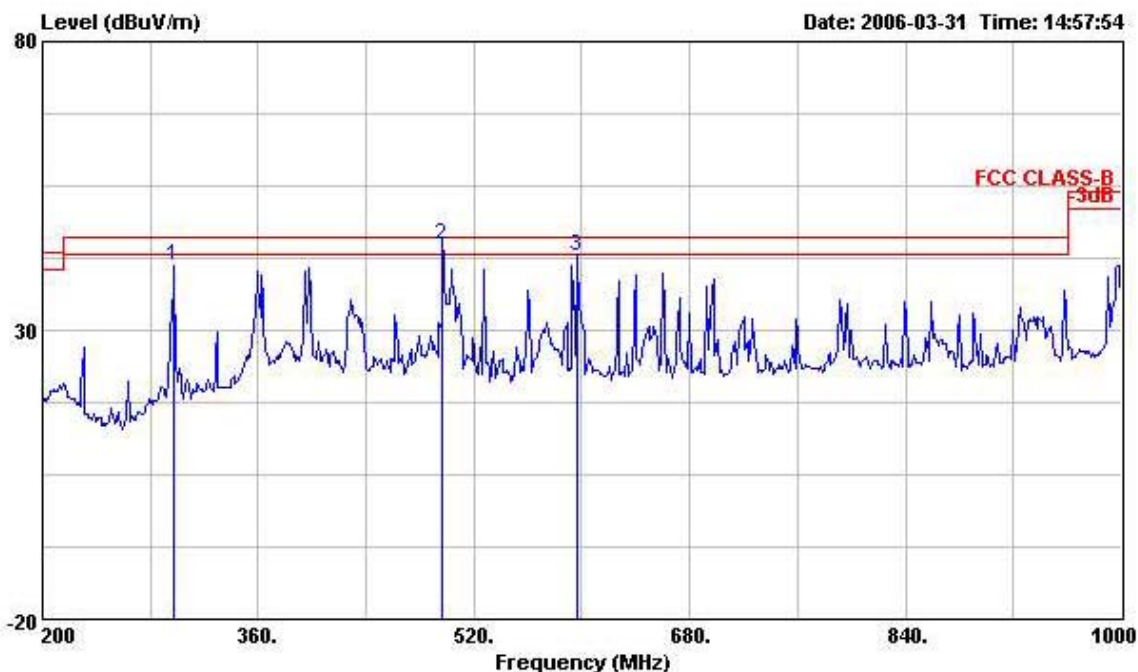


	Freq	Level	Over	Read	Limit	Antenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Level	Line	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV	dBuV/m	dB/m	dB	dB		cm	deg
1 @	297.600	43.16	-2.84	56.72	46.00	13.73	2.90	30.19	QP	---	---
2	359.200	40.29	-5.71	51.48	46.00	15.60	3.39	30.17	Peak	---	---
3	596.000	42.85	-3.15	48.10	46.00	20.22	4.49	29.95	QP	---	---

Vertical



	Freq	Level	Over Limit	Read Level	Limit	Antenna Line Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV	dBuV/m	dB/m	dB	dB		cm	deg
1	31.870	34.34	-5.66	51.38	40.00	12.61	0.41	30.06	Peak	---	---
2	37.820	32.11	-7.89	49.23	40.00	12.29	0.64	30.04	Peak	---	---
3	103.100	29.74	-13.76	48.92	43.50	9.43	1.46	30.06	Peak	---	---



	Freq	Level	Over Limit	Read Level	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV	dBuV/m	dB/m	dB	dB		cm	deg
1	297.600	41.30	-4.70	54.86	46.00	13.73	2.90	30.19	Peak	---	---
2 @	496.800	44.88	-1.12	55.12	46.00	16.03	3.88	30.15	QP	---	---
3	596.000	42.78	-3.22	48.03	46.00	20.22	4.49	29.95	QP	---	---

Note:

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

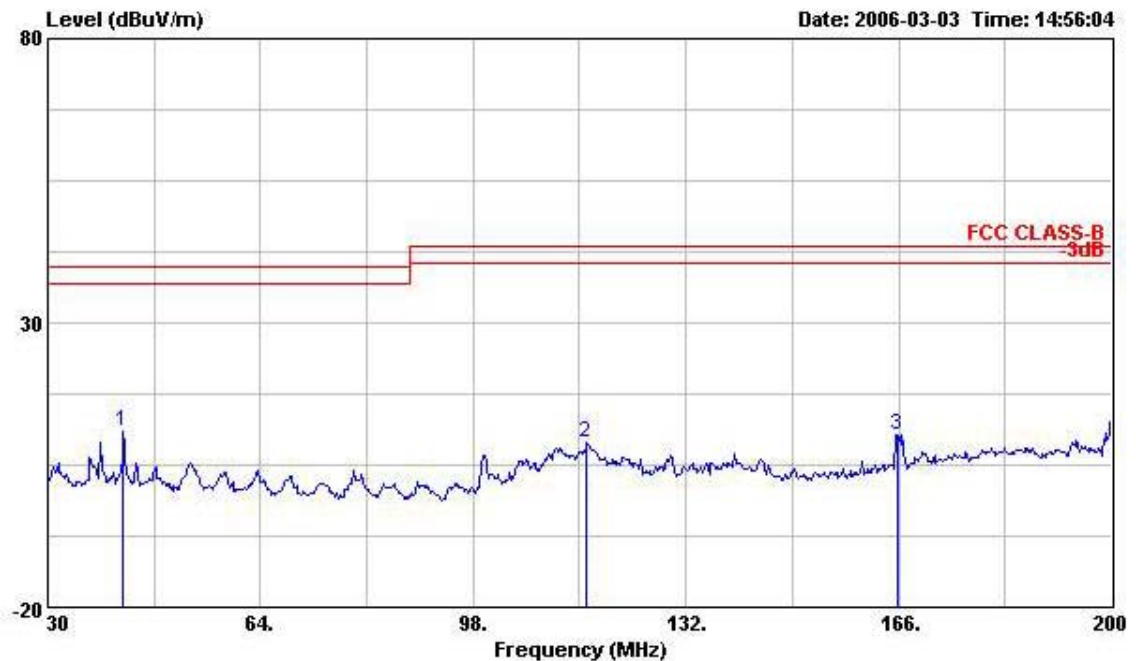
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

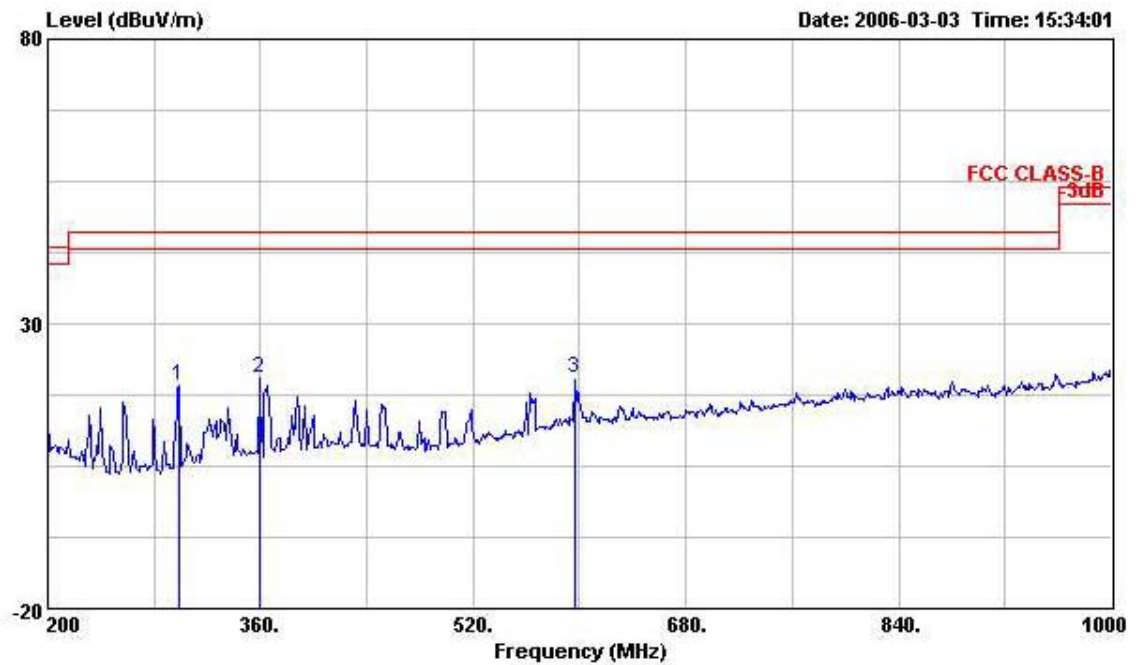
Pol. : V is Vertical Polarization ; H is Horizontal Polarization.

Temperature	24°C	Humidity	58%
Test Engineer	Vic	Configurations	802.11g Channel 6

Horizontal

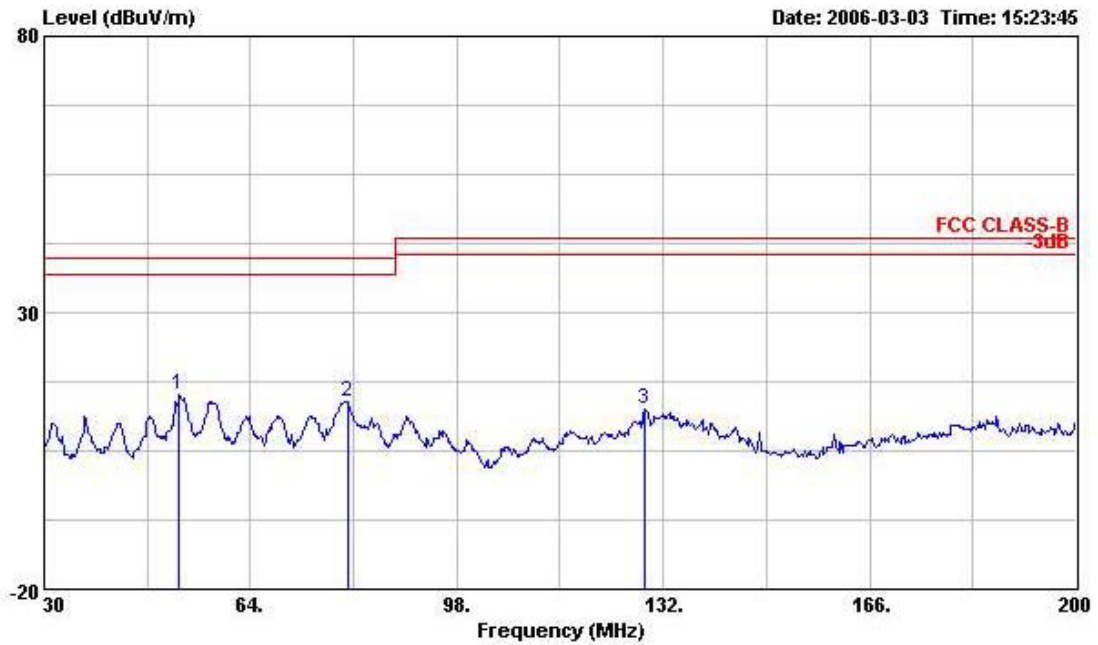


	Freq	Level	Over	Read	Limit	Antenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Level	Line	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV	dBuV/m	dB/m	dB	dB		cm	deg
1	42.070	10.86	-29.14	27.65	40.00	12.51	0.77	30.08	Peak	---	---
2	116.190	9.08	-34.42	26.14	43.50	11.34	1.69	30.09	Peak	---	---
3	165.830	10.40	-33.10	25.30	43.50	13.23	1.98	30.12	Peak	---	---

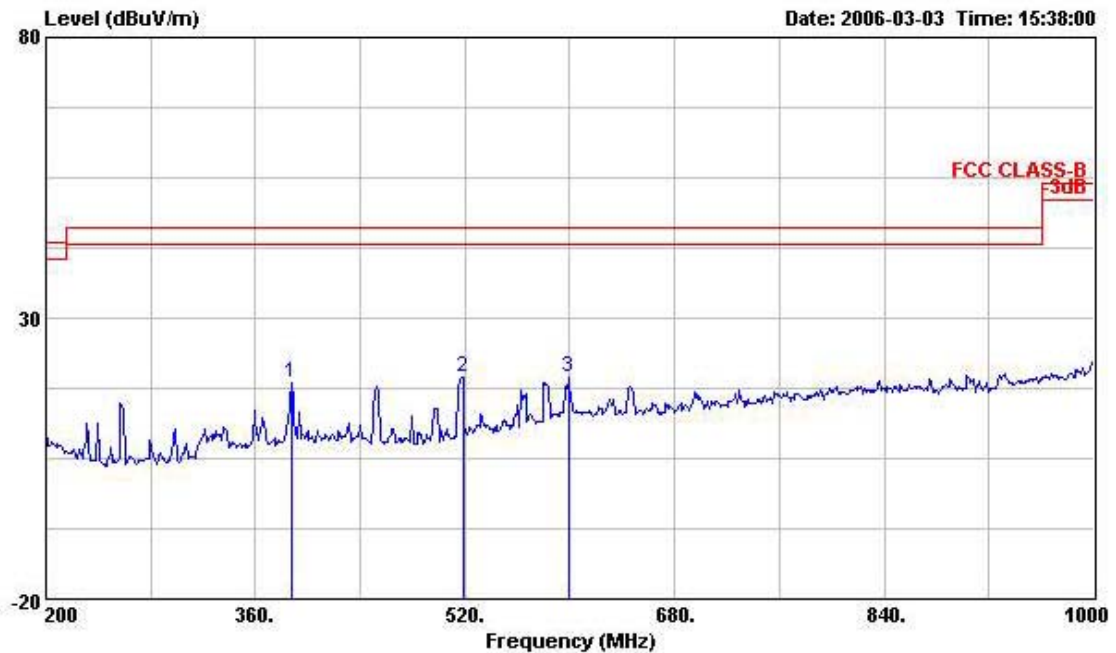


	Freq	Level	Over Limit	Read Level	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV	dBuV/m	dB/m	dB	dB		cm	deg
1	298.400	19.10	-26.90	32.92	46.00	13.75	2.90	30.48	Peak	---	---
2	359.200	20.52	-25.48	32.02	46.00	15.60	3.39	30.49	Peak	---	---
3	596.000	20.30	-25.70	26.24	46.00	20.22	4.49	30.65	Peak	---	---

Vertical



	Freq	Level	Over	Read	Limit	Antenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Level	Line	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV	dBuV/m	dB/m	dB	dB		cm	deg
1	52.270	15.18	-24.82	32.97	40.00	11.20	1.09	30.07	Peak	---	---
2	79.980	13.99	-26.01	33.05	40.00	9.50	1.44	30.00	Peak	---	---
3	128.940	12.50	-31.00	28.48	43.50	12.30	1.84	30.13	Peak	---	---



	Freq	Level	Over Limit	Read Level	Limit	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV	dBuV/m	dB/m	dB	dB		cm	deg
1	388.000	18.45	-27.55	29.27	46.00	16.46	3.43	30.71	Peak	---	---
2	518.400	19.60	-26.40	29.41	46.00	16.83	3.99	30.63	Peak	---	---
3	599.200	19.49	-26.51	25.21	46.00	20.36	4.55	30.63	Peak	---	---

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB 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.

Pol. : V is Vertical Polarization ; H is Horizontal Polarization.

3.12. Antenna Requirements

3.12.1. 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.

3.12.2. Antenna Connector Construction

Please refer to section 3.3 in this test report, all antenna connectors comply with the requirements.

4. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 16, 2005	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	CPA9231A	3565	9 kHz - 2 GHz	Jan. 18, 2006	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	May 31, 2005	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004/040	9 kHz - 40 GHz	Sep. 30, 2005	Radiation (03CH03-HY)
Biconical Antenna	SCHWARZBECK	VHBB 9124	301	30 MHz - 200 MHz	Jul. 22, 2005	Radiation (03CH03-HY)
Log Antenna	SCHWARZBECK	VUSLP 9111	221	200 MHz - 1 GHz	Jul. 22, 2005	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1 GHz - 18 GHz	Apr. 22, 2005	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec.02, 2005	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec.02, 2005	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 - 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	MITEQ	AMF-6F-260400	923364	26.5 GHz - 40 GHz	Jan. 24, 2006*	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 24, 2004*	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jun. 09, 2004*	Radiation (03CH03-HY)

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

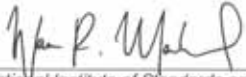
5. SPORTON COMPANY PROFILE

SPORTON Lab. was established in 1986 with one shielded room: the first private EMI test facility, offering local manufacturers an alternative EMI test facility apart from ERSO. In 1988, one 3M and 10M/3M open area test site were setup and also obtained official accreditation from FCC, VCCI and NEMKO. In 1993, a Safety laboratory was founded and obtained accreditation from UL of USA, CSA of Canada and TUV (Rhineland & PS) of Germany. In 1995, one EMC lab, including EMI and EMS test facilities was setup. In 1997, SPORTON Group has provided financial expense to relocate the headquarter to Orient Scientific Park in Taipei Hsien to offer more comprehensive, more qualified and better service to local suppliers and manufactures. In 1999, Safety Group and Component Group were setup. In 2001, SPORTON has established 3M/10M chamber in Hwa Ya Technology Park.

5.1. Test Location

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 02-2696-2468 FAX : 02-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 03-327-3456 FAX : 03-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 02-2601-1640 FAX : 02-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 02-2631-4739 FAX : 02-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 02-8227-2020 FAX : 02-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 02-2794-8886 FAX : 02-2794-9777
JHUBEI	ADD : No.8, Lane 728, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C. TEL : 03-656-9065 FAX : 03-656-9085

6. NVLAP CERTIFICATE OF ACCREDITATION

United States Department of Commerce National Institute of Standards and Technology		
		
Certificate of Accreditation to ISO/IEC 17025:1999		
NVLAP LAB CODE: 200079-0		
Sporton International, Inc. Hwa Ya EMC Laboratory Tao Yuan Hsien 333 TAIWAN		
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