Appendix C. Attachment of Report

according to

47 CFR FCC Part 15 Subpart C § 15.247

Equipment : PND

Model No. : 21MAX / 5100MAX

Brand Name : NAVIGON

Filing Type : Existing Change

Applicant . NAVIGON AG . Berliner Platz 11 D-97080 Würzburg Germany

FCC ID : VIL-21MAX

Manufacturer . Compal Communications (Nanjing) Co., Ltd.

No.68-2, Suyuan Road, Export Processing Zone (South

Area). Nanjing China Post:211100

 Received Date
 : Sep. 03, 2008

 Final Test Date
 : Sep. 04, 2008

 Report No.
 : FR813018-02

 Issue Date
 : Oct. 03, 2008

Attachment Info. : Please refer to section 1.1

Statement

Test result included is only for the Bluetooth 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.

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CERTIFICATE OF COMPLIANCE

according to

47 CFR FCC Part 15 Subpart C § 15.247

Equipment : PND

Model No. : 21MAX / 5100MAX

Brand Name : NAVIGON

Applicant : NAVIGON AG

Berliner Platz 11 D-97080 Würzburg

Germany

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Sep. 03, 2008 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.

Wayne Hsu

SPORTON International Inc.

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1. GENERAL INFORMATION

1.1. Table for Additional Multiple Listing

Appendix C. Attachment of report is existing change battery. The equipment of this attachment is the same as the Equipment under Test of original test report, whose report no, is FR813018. This attachment should be filed together with original test report, Report No.: FR813018 for reference.

	Original Batt	ery Brand Name	New Battery Brand Name	
Modifications	JHIF	HONG	JHIH HONG	
Wodifications	Model Name	Report No.	Additional Model Name	
	761NH60372W	FR813018	JHT-05500NH6-A	

1.2. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
DC Power Supply	G.W	GPC-6030D	DoC
Car Charger JESS-LINK		HH-12B	DoC
(Provide by Customer)	JESS-LINK	1111-120	DOC

1.3. Table for Supporting Units

Support Unit	Brand	Model	FCC ID	
PC	HP	DC579AV	N/A	
LCD Monitor	DELL	2408WFPb	N/A	
Keyboard (PS2)	BTC	9110	DoC	
Mouse (USB)	Microsoft	1004	DoC	
Modem	ACEEX	DM-1414	IFAXDM1414	
Printer	EPSON	LQ300+	DoC	
SD Card	SanDisk	2GB	N/A	
DC Power Supply	G.W	GPC-6030D	DoC	
Car Charger	JESS-LINK	HH-12B	DoC	
(Provide by Customer)	JEGG-LINK	ПП-12D	DOC	

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1.4. EUT Operation during Test

Two executive programs, EMCTEST.EXE & Winthrax under WIN XP, then PC sends messages to the internal Hard Disk, and the Hard Disk reads and writes the message.

The PC reads the "" test program from the hard disk drive and runs it.

The PC sends "H" messages to the monitor, and the monitor displays "H" patterns on the screen.

The PC sends "H" messages to the printer, then the printer prints them on the paper.

The PC sends "H" messages to the modem

At the same time, "WINTHRAX" was executed from the hard disk drive and runs it.

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2. TEST RESULT

2.1. AC Power Line Conducted Emissions Measurement

2.1.1. 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.

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

2.1.2. 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

2.1.3. Test Procedures

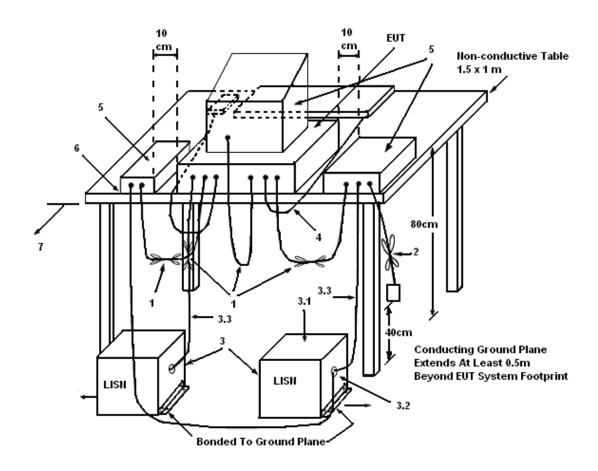
- 1. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support 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.

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2.1.4. 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.

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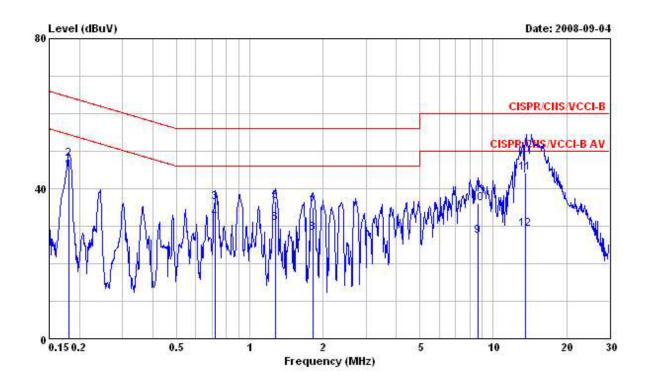
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2.1.5. Test Deviation

There is no deviation with the original standard.

2.1.6. Results of AC Power Line Conducted Emissions Measurement

Test date	Sep. 04, 2008	Test Site No.	CO04-HY
Temperature	25	Humidity	55%
Test Engineer	Chris	Phase	Line
Configuration	USB Link Mode		

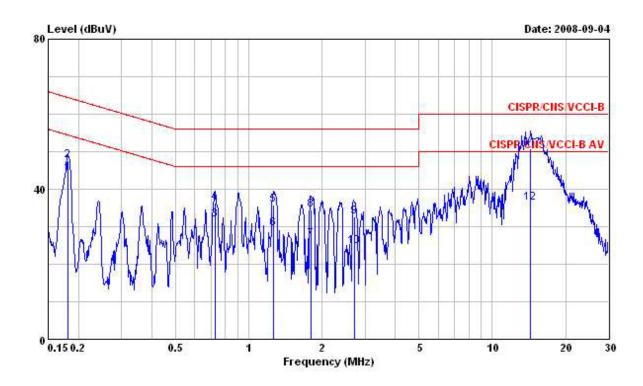


	040000	4720004	Over	Limit	Read	LISN	Cable	9041040301114E
	Freq	Level	Limit	Line	reser	Factor	ross	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1805620	45.05	-9.41	54.46	44.71	0.09	0.25	Average
2	0.1805620	47.96	-16.50	64.46	47.62	0.09	0.25	QP
3	0.7235980	36.36	-19.64	56.00	35.90	0.11	0.35	QP
4	0.7235980	31.98	-14.02	46.00	31.52	0.11	0.35	Average
5	1.270	36.46	-19.54	56.00	35.94	0.12	0.40	QP
6	1.270	30.79	-15.21	46.00	30.27	0.12	0.40	Average
7	1.819	34.88	-21.12	56.00	34.41	0.13	0.34	QP
8	1.819	28.03	-17.97	46.00	27.56	0.13	0.34	Average
9	8.640	27.35	-22.65	50.00	26.81	0.26	0.28	Average
10	8.640	36.18	-23.82	60.00	35.64	0.26	0.28	QP
11	13.620	44.18	-15.82	60.00	43.46	0.33	0.39	QP
12	13.620	29.13	-20.87	50.00	28.41	0.33	0.39	Average

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Test date	Sep. 04, 2008	Test Site No.	CO04-HY
Temperature	25	Humidity	55%
Test Engineer	Chris	Phase	Neutral
Configuration	USB Link Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1815220	44.29	-10.13	54.42	43.96	0.08	0.25	Average
2	0.1815220	47.59	-16.83	64.42	47.26	0.08	0.25	QP
3	0.7274420	31.80	-14.20	46.00	31.34	0.10	0.36	Average
4	0.7274420	36.20	-19.80	56.00	35.74	0.10	0.36	QP
5	1.264	35.91	-20.09	56.00	35.40	0.11	0.40	QP
6	1.264	29.58	-16.42	46.00	29.07	0.11	0.40	Average
7	1.805	26.66	-19.34	46.00	26.20	0.12	0.34	Average
8	1.805	34.58	-21.42	56.00	34.12	0.12	0.34	QP
9	2.711	32.63	-23.37	56.00	32.23	0.13	0.27	QP
10	2.711	24.64	-21.36	46.00	24.24	0.13	0.27	Average
11	@ 14.360	50.75	-9.25	60.00	50.01	0.33	0.41	QP
12	14.360	36.37	-13.63	50.00	35.63	0.33	0.41	Average

Note:

Level = Read Level + LISN Factor + Cable Loss.

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2.2. Radiated Emissions Measurement

2.2.1. 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

2.2.2. 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)	1000KHz / 1000KHz 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

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2.2.3. Test Procedures

- 2. 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.
- 3. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 4. 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.
- 5. 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.
- 6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 7. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. 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.

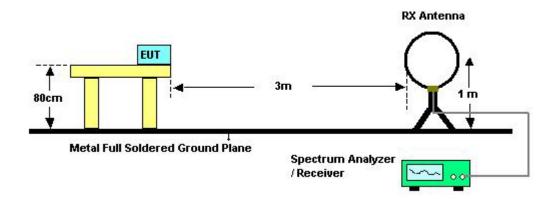
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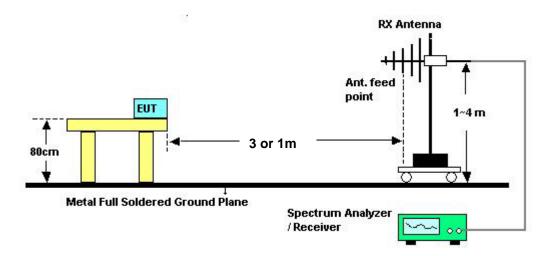
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2.2.4. Test Setup Layout

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].

2.2.5. Test Deviation

There is no deviation with the original standard.

2.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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

Test date	Sep. 03, 2008	Test Site No.	03CH02-HY
Temperature	26	Humidity	55%
Test Engineer	Sam		

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

Note:

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

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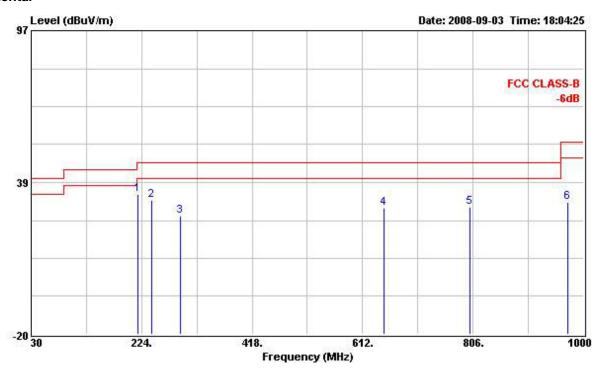
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 : Oct. 03, 2008

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

Test date	Sep. 03, 2008	Test Site No.	03CH02-HY
Temperature	26	Humidity	55%
Test Engineer	Sam	Configurations	Car Charger / GPS+BT Mode

Horizontal



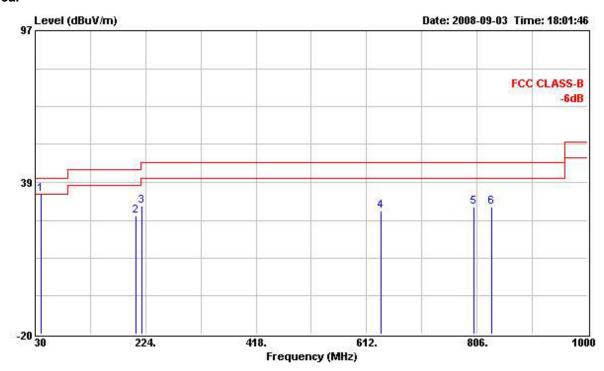
	Freq	Level	Over Limit	34550		Probe Factor		됐었는 없이 주었		Ant Pos	Table Pos
_	Mkz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	nn	can	deg
1	218.180	33.90	-12.10	46.00	49.57	11.95	2.94	30.56	Peak		
2	241.460	31.85	-14.15	46.00	46.64	12.71	3.02	30.52	Peak	90000	0.70.000
3	291.900	25.52	-20.48	46.00	38.93	13.59	3.42	30.42	Peak		
4	649.830	28.77	-17.23	46.00	33.50	19.51	5.16	29.40	Peak		
5	800.180	28.93	-17.07	46.00	32.16	20.27	5.50	29.00	Peak		
6	971.870	30.80	-23.20	54.00	31.32	21.80	6.09	28.41	Peak	95555	

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Vertical



	Freq	Level	Over Limit	34550		Probe Factor		맛있다. 없이 그래?		Ant Pos	Table Pos
MHz	dBuV/m	uV/m dB	dBuV/m	dBuV	dB	dB	dB		cm	deg	
1	40.670	33.86	-6.14	40.00	50.32	13.01	1.37	30.84	Peak		
2	206.540	25.47	-18.03	43.50	41.61	11.57	2.88	30.59	Peak		27777
3	218.180	29.50	-16.50	46.00	45.17	11.95	2.94	30.56	Peak		
4	637.220	27.58	-18.42	46.00	32.28	19.68	5.07	29.45	Peak		
5	800.180	28.99	-17.01	46.00	32.22	20.27	5.50	29.00	Peak		
6	832.190	29.19	-16.81	46.00	32.38	20.19	5.52	28.90	Peak	95555	

Note:

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

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

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5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Mar. 03, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN ST08	21653	9kHz –30MHz	Mar. 27, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100305/040	9 kHz - 40GHz	Jan. 10, 2008	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30 MHz - 2 GHz	Dec. 22, 2007	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB020	30 MHz - 1 GHz	Dec. 08, 2007	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz – 26.5 GHz	Jul. 16, 2008	Radiation (03CH02-HY)

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

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6. TEST LOCATION

SHIJR	ADD	:	6FI., 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

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7. TAF CERTIFICATE OF ACCREDITATION



Certificate No. : L1190-070110

財團法人全國認證基金會 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

Jay-San Chen

President, Taiwan Accreditation Foundation

Date : January 10, 2007

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

 SPORTON International Inc.
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