# **FCC TEST REPORT**

for

# 47 CFR FCC Rules and Regulations Part 15 Subpart B, Class B Digital

**Equipment**: FilmScan35 II-Professional-2.4

Model No. : SCND902H1235

FCC ID: WFZSCND902H1235

Filing Type : Certification

Applicant : EU3C Company Limited

Unit7, 8/F., Austin Tower, 22-26 Austin Avenue, Tsim Sha

Tsui, Kowloon, Hong Kong

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#### SPORTON International Inc.

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

#### Report No.: FV0O0901

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Page No. :

Issued Date : Dec. 06, 2010

## History of this test report

Original Report Issue Date: Dec. 06, 2010	
■ No additional attachment.	
☐ Additional attachment were issued as following record:	

Attachment No.	Issue Date	Description

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# SPORTON INTERNATIONAL INC.



FCC TEST REPORT

Report No.: FV000901

Certificate No.: FV000901

# CERTIFICATE OF COMPLIANCE

for

47 CFR FCC Rules and Regulations Part 15 Subpart B, Class B Digital Device

Equipment: FilmScan35 II-Professional-2.4

Model No. : SCND902H1235

FCC ID

: WFZSCND902H1235

Applicant : EU3C Company Limited

Unit7, 8/F., Austin Tower, 22-26 Austin Avenue, Tsim Sha

Tsui, Kowloon, Hong Kong

#### I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 - 2003 and the energy emitted by this equipment was passed FCC Part 15 Subpart B in both radiated and conducted emission class B limits.

Testing was carried out on Dec. 02, 2010 at SPORTON International Inc. LAB.

Castries Huang

Supervisor

#### SPORTON International Inc.

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

SPORTON International Inc.

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## 1. General Description of Equipment under Test

#### 1.1. Applicant

**EU3C Company Limited** 

Unit7, 8/F., Austin Tower, 22-26 Austin Avenue, Tsim Sha Tsui, Kowloon, Hong Kong.

#### 1.2. Manufacturer

Silicon Valley Electronice Technology (Dongguan) Co., LTD He Iu Second Industrial Section, Huangjiang Town, Dongguan City, Guang Dong Province

#### 1.3. Basic Description of Equipment under Test

Equipment : FilmScan35 II-Professional-2.4

Model No. : SCND902H1235

Trade Name : FS-II-9M-2.4

USB Cable : Shielded, 1.2m,

Video Cable : Non-Shielded, 3m

Power Supply Type : Switching Adaptor

AC Power Cord : Non-Shielded, 1.2m, 2 pin

#### 1.4. Feature of Equipment under Test

Please refer to user manual.

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## 2. Test Configuration of Equipment under Test

#### 2.1. Test Manner

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

- b. The complete test system included SONY TV, DELL PC, DELL monitor, DELL Keyboard, DELL Mouse, APPLE IPOD, HP Printer and EUT for EMI test.
- c. The following modes were performed:

Mode 1. Scan

Mode 2. Play

Mode 3. Scan + USB charge

For Conduction test, cause "mode 2" generated the worst test result, they were reported as final data. For Radiation test, cause "mode 1" generated the worst test result, they were reported as final data.

d. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 1000MHz.

#### 2.2. Description of Test System

Support Unit 1. -- TV (SONY)

FCC ID : DOC

Model No. : KLV-32V300A

Power Supply Type : Linear

Power Cord : Non-Shielded, 1.8m, 3 pin

Serial No. : N/A

Remark : This support device was tested to comply with FCC standards and

authorized under a declaration of conformity.

Support Unit 2. -- Personal Computer (DELL)

FCC ID : DOC

Model No. : OPTIPLEX320
Power Supply Type : Switching

Power Cord : Non-Shielded, 1.8m

Serial No. : N/A

Remark : This support device was tested to comply with FCC standards and

authorized under a declaration of conformity.

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Support Unit 3. -- USB Keyboard (DELL)

 FCC ID
 : DOC

 Model No.
 : L100

 Serial No.
 : N/A

Data Cable : Shielded, with core, 1.8m

Remark : This support device was tested to comply with FCC standards and

authorized under a declaration of conformity.

Support Unit 4. -- USB Mouse (DELL)

FCC ID : DOC

Model No. : N231

Serial No. : N/A

Data Cable : Shielded, 1.8m

Remark : This support device was tested to comply with FCC standards and

authorized under a declaration of conformity.

Support Unit 5. -- iPod (APPLE)

FCC ID : DOC Model No. : A1199

Serial No. : YM73117LVQ5
Data Cable : Shielded, 1.2m

Remark : This support device was tested to comply with FCC standards and

authorized under a declaration of conformity.

Support Unit 6. -- Printer (HP)

FCC ID : DOC

Model No. : Laser Jet 1018

Power Supply Type : Linear

Power Cord : Non-Shielded

Serial No. : N/A

Data Cable : Shielded, 1.8m

Remark : This support device was tested to comply with FCC standards and

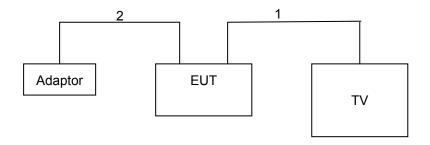
authorized under a declaration of conformity.

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## 2.3. Connection Diagram of Test System

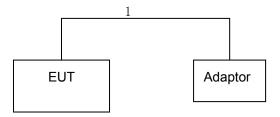
#### For Conduction test



- 1. The video cable is connected from EUT to the support unit 1.
- 2. The USB cable is connected from EUT to the Adaptor.

Note: Above support unit on behalf of the meaning, please refer to section 2.2.

#### For Radiation test



1. The USB cable is connected from EUT to the adaptor.

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#### 3. Test Software

An executive program, "EMCTEST.EXE" under WIN XP, which generates a complete line of continuously An executive program, "EMITEST.EXE" under WIN XP, which generates a complete line of continuously repeating "H" pattern was used as the test software in the mode 3.

The program was executed as follows:

- a. Scanner carries out the scanning modem.
- b. Scanner connects TV and broadcasts the pictures.
- c. Scanner connects PC and charges, then carries out the scanning modem .

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#### 4. General Information of Test

#### 4.1. Test Facility

This test was carried out by SPORTON International Inc.

Test Site Location : No.3-2 Ping-Xiang Rd,

Kunshan Economic & Technical Development Zone, JiangSu, China.

TEL: 86-0512-57900158 FAX: 86-0512-57900958

Test Site No. : CO01-KS, 03CH01-KS

#### 4.2. Test Voltage

AC 120V / 60Hz

#### 4.3. Standard for Methods of Measurement

ANSI C63.4-2003

#### 4.4. Test in Compliance with

FCC Rules, Regulations Part 15 Subpart B

#### 4.5. Frequency Range Investigated

a. Conduction: from 150 kHz to 30 MHzb. Radiation: from 30 MHz to 1000 MHz

#### 4.6. Test Distance

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

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5. Test of Conducted Powerline

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz and return leads of the EUT according to the method's defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a

nonmetallic st and in a shi elded room 0 .8 meters a bove the grou nd plane as shown in section 5.3. The

interface cables and equipment positioning were varied within limits of reasonable applications to determine

the position produced maximum conducted emissions.

5.1. Major Measuring Instruments

• Test Receiver ( R&S ESCI7 )

Attenuation 10 dB

Start Frequency 0.15 MHz
Stop Frequency 30 MHz

IF Bandwidth 9 kHz

5.2. Test Procedures

a. The EUT was placed 0.4 meter from t he conducting wall of the  $\,$  shielding room was kept at least 8 0

centimeters from any other grounded conducting surface.

b. Connect EUT to the power mains through a line impedance stabilization network (LISN).

c. The LISN provides 50 ohm coupling impedance for the measuring instrument.

d. The FCC states that a 50 ohm, 50 microhenry LISN should be used.

e. Both sides of AC line were checked for maximum conducted interference.

f. The frequency range from 150 kHz to 30 MHz was searched.

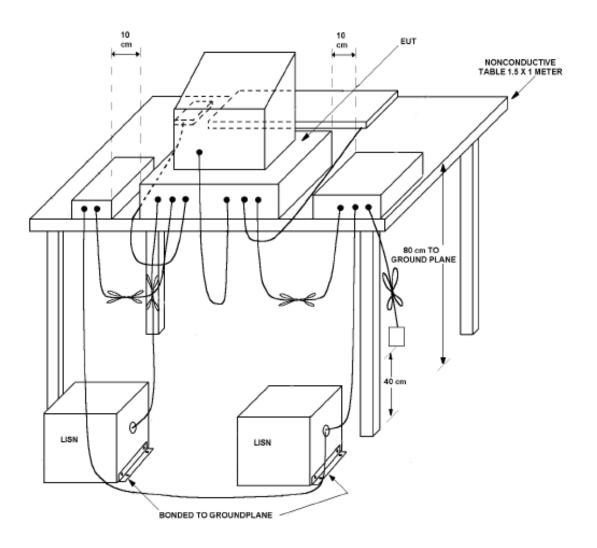
g. Set the test-receiver system to Peak Detect Functi on and S pecified Bandwidth with Maximum Hold

Mode.

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## 5.3. Typical Test Setup Layout of Conducted Powerline



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#### 5.4. Test Result of AC Powerline Conducted Emission

5.4.1. Test Mode: Mode 2

Frequency Range of Test: from 0.15 MHz to 30 MHz

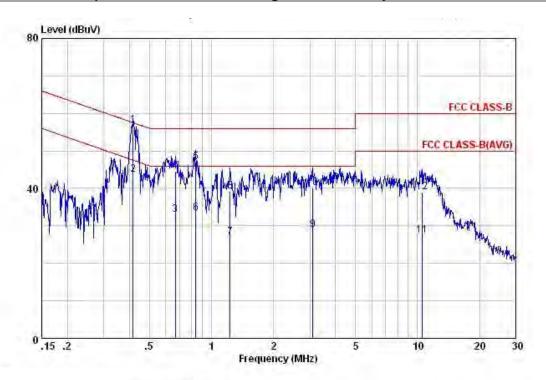
Temperature: 23 °C

Relative Humidity: 44 %

Corrected Reading (dBuV) = Probe Factor + Cable Loss + Read Level = Level

All emissions not reported here are more than 10 dB below the prescribed limit.

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



Condition: FCC CLASS-B LISN-100807 NEUTRAL : Film scan 35 II-protessional-2.4

: SCND902H1232 Model : 120Vac/60Hz : Play Power

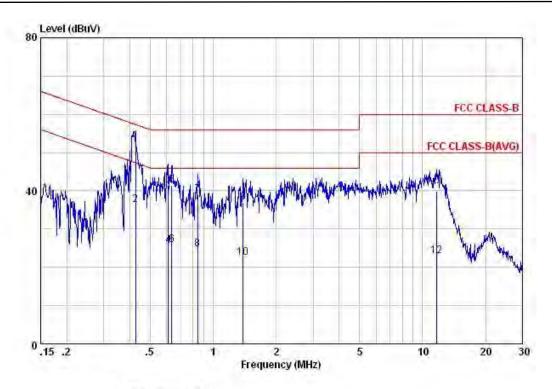
Memo

	Freq	Level	Limit	Limit	Level	Factor	Loss	Remark
-	MHz	dBuV	dB.	dBuV	dBuV	dB	dB	
1	0.42	56.71	-0.79	57.50	46.60	-0.08	10.19	OP
2	0.42	43.71	-3.79	47.50	33.60	-0.08	10.19	Average
3	0.67	32.95	-13.05	46.00	22.80	-0.08	10.23	Average
2 3 4 5 6 7 8 9	0.67	44.65	-11.35	56.00	34.50	-0.08	10.23	QP
5	0.84	46.96	-9.04	56.00	36.80	-0.09	10.25	
6	0.84	33.46	-12.54	46.00	23.30	-0.09	10.25	Average
7	1.23	26.99	-19.01	46.00	16.80	-0.09	10.28	Average
8	1.23	39.29	-16.71	56.00	29.10	-0.09	10.28	QP
	3.11	29.05	-16.95	46.00	18.80	-0.12	10.37	Average
10	3.11	40.05	-15.95	56.00	29.80	-0.12	10.37	QP
11	10.51	27.44	-22.56	50.00	17.11	-0.13	10.46	Average
12	10.51	39.04	-20.96	60.00	28.71	-0.13	10.46	QP

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Dead TICH Cable

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Condition: FCC CLASS-B LISN-100807 LINE EUT : Film scan 35 II-protessional-2.4
Model : SCND902H1232
Power : 120Vac/60Hz
Memo : Play

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
7	MHz	dBuV	——dB	dBuV	<u>dBuV</u>	dB	dB	-
1	0.43	51.92	-5.41	57.33	41.80	-0.08	10.20	QP
2	0.43	36.22	-11.11	47.33	26.10	-0.08	10.20	Average
2 3 4 5 6 7 8 9	0.61	41.34	-14.66	56.00	31.21	-0.09	10.22	QP
4	061	25.74	-20.26	46.00	15.61	-0.09	10.22	Average
5	0.63	41.44	-14.56	56.00	31.30	-0.09	10.23	QP
6	0.63	25.94	-20.06	46.00	15.80	-0.09	10.23	Average
7	0.84	38.95	-17.05	56.00	28.80	-0.10	10.25	QP
8	0.84	24.65	-21.35	46.00	14.50	-0.10	10.25	Average
	1.39	37.09	-18.91	56.00	26.90	-0.10	10.29	QP
10	1.39	22.49	-23.51	46.00	12.30	-0.10	10.29	Average
11	11.62	39.98	-20.02	60.00	29.60	-0.10	10.48	QP
12	11.62	22.88	-27.12	50.00	12.50	-0.10	10.48	Average

est Engineer :

James Huang

SPORTON International Inc.

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#### 6. Test of Radiated Emission

Radiated emissions from 3 0 MHz to 1,0 00 MHz we're measured with a bandwidth of 120 kHz according to the methods defines in ANSI C63.4-2003. The EUT was placed on a nonmetallic stand, 0.8 meter above the ground plane, as shown in section 6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

## **6.1. Major Measuring Instruments**

Amplifier Wireless (FPA-6592G)

RF Gain 28 dB

Signal Input 30MHz~2GHz

• EMI Receiver (R&S ESCI)

Attenuation 10 dB
Start Frequency 30 MHz
Stop Frequency 1000 MHz
Resolution Bandwidth 120 kHz

Signal Input 9 kHz - 3 GHz

Bilog Antenna SCHAFFNER (CBL6112D)

Start Frequency 30 MHz
Stop Frequency 1 GHz

Signal Input 25MHz~2GHz

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#### 6.2. Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.

b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.

c. The table was rotated 360 degrees to determine the position of the highest radiation.

d. The antenna is a half wave dipol e and its height is varied between one meter and four meters above ground to find the maximum value of the field st rength both hori zontal polarization and vertical polarization of the antenna are set to make the measurement.

e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.

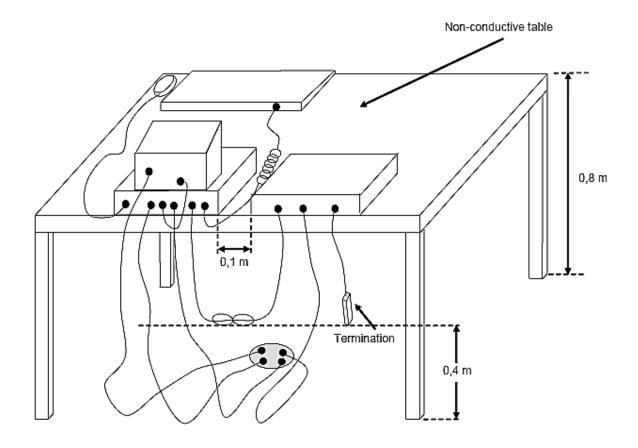
f. Set the test-receive r system to Peak Detect Function and specified ban dwidth with Maxim um Hold Mode.

g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

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# 6.3. Typical Test Setup Layout of Radiated Emission



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#### 6.4. Test Result of Radiated Emission

#### 6.4.1. Test Mode: Mode 1

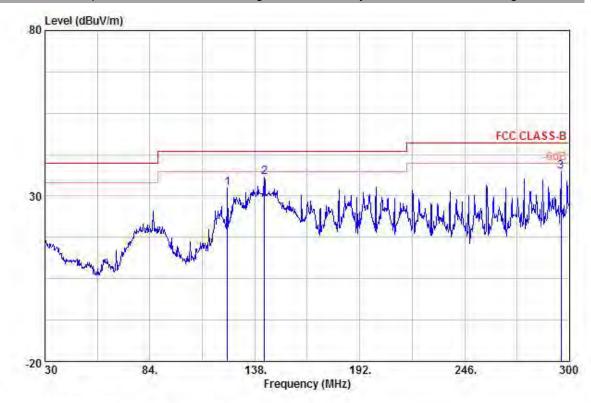
Frequency Range of Test: from 30 MHz to 1,000 MHz

Temperature : 22 °C
Relative Humidity : 43 %

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

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

#### ■ The test was passed at the minimum margin that marked by the frame in the following test record



Condition: FCC CLASS-B 3m LF\_ANT\_100803 HORIZONTAL

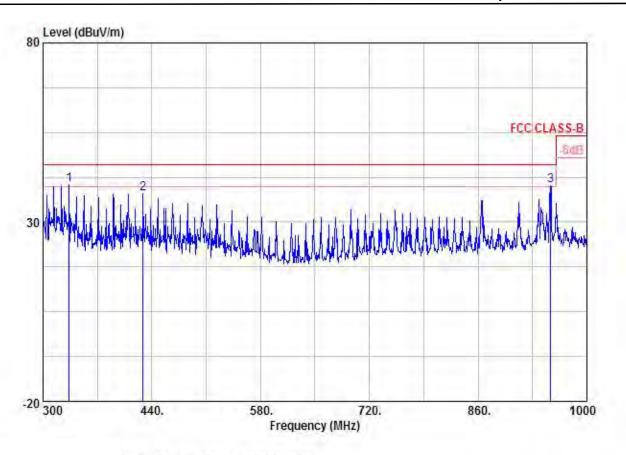
EUT : Film scan 35 II-protessional-2.4

Model : SCND902H1232 Power : 120V/60Hz Memo : Scan

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
-	MHz	dBu∀/m	dB	$\overline{\mathtt{dBuV/m}}$	dBuV	dB/m	dB	dB	cm	deg	
1	123.96 142.86			43.50 43.50		11.76 10.64	0.48	- 1.7 (7 th 7 7 2	_		Peak Peak
3	295.68			46.00				29.68			Peak

SPORTON International Inc. FCC ID : WFZSCND902H1235

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Condition: FCC CLASS-B 3m LF\_ANT 100803 HORIZONTAL

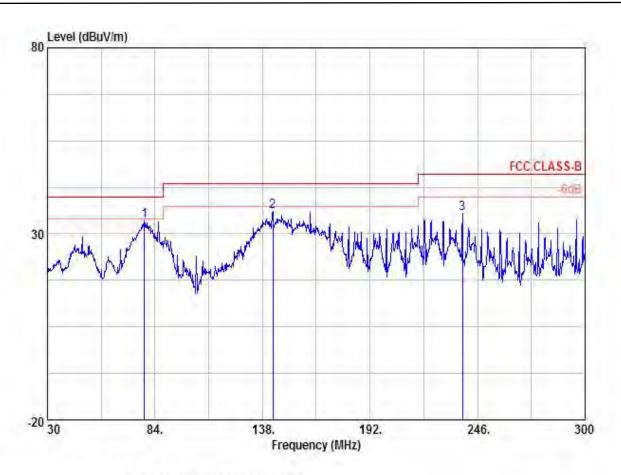
EUT : Film scan 35 II-protessional-2.4

Model : SCND902H1232 Power : 120V/60Hz Memo : Scan

		Freq	Level				Antenna Factor			Ant Pos	Table Pos	Remark
	-	MHz	dBuV/m	dB	$\overline{\mathtt{dBuV/m}}$	dBuV	dB/m	dB	dB -	cm	deg	_
1	Ú	333.60	40.31	-5.69	46.00	55.36	14.08	0.81	29.94	128	314	Peak
2		428.80	37.88	-8.12	46.00	51.59	16.18	0.90	30.79			Peak
3	1	953.10	40.21	-5.79	46.00	46.86	20.75	1.32	28.72	0		Peak

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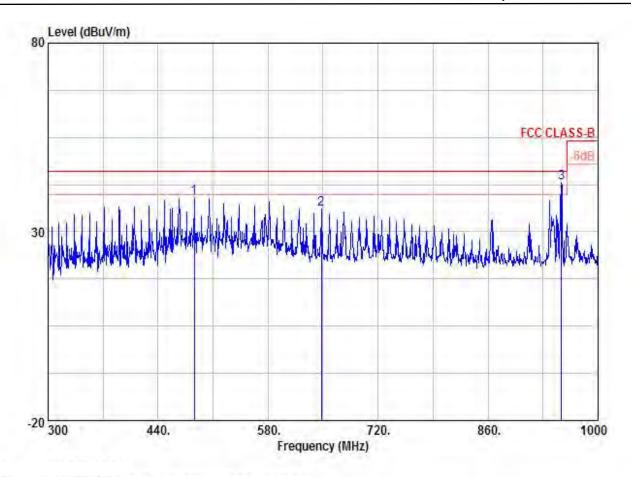
Condition: FCC CLASS-B 3m LF\_ANT 100803 VERTICAL : Film scan 35 II-protessional-2.4

Mode1 : SCND902H1232 Power : 120V/60Hz : Scan Memo

	Freq	Level	Over Limit	The Control of the Co		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
-	MHz	$\overline{\mathtt{dBuV/m}}$	dB	$\overline{\mathtt{dBuV/m}}$	dBuV	dB/m	dB	dB -	OM.	deg	_
1	78.60	33.54	-6.46	40.00	57.51	6.34	0.38	30.69			Peak
2	143.13	35.85	-7.65	43.50	55.02	10.55	0.57	30.29			Peak
3				46.00			0.71	29.73		-	Peak

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Condition: FCC CLASS-B 3m LF\_ANT\_100803 VERTICAL

: Film scan 35 II-protessional-2.4

Model : SCND902H1232 Power : 120V/60Hz Memo : Scan

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
_	MHz	$\overline{\mathtt{dBuV/m}}$	dB	$\overline{\mathtt{dBuV/m}}$	dBuV	dB/m	dB	dB -	cm	deg	
1	486.20	38.97	-7.03	46.00	52.30	16.99	0.97	31.29			Peak
2	647.90	36.11	-9.89	46.00	47.71	18.89	1.10	31.59	226		Peak
3 !	953.10	42.84	-3.16	46.00	49.49	20.75	1.32	28.72	114	225	Peak

Test Engineer:

James Huang

SPORTON International Inc.

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# 7. List of Measuring Equipment Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 16, 2010	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 18, 2010	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060004	30MHz~2GHz	Feb. 02, 2010	Radiation (03CH01-KS)
EMI Test Receicver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 22, 2010	Conduction (CO01-KS)
LISN	MessTec	AN3016	060103	9kHz~30MHz	Jan. 18, 2010	Conduction (CO01-KS)
LISN	MessTec	AN3016	060105	9kHz~30MHz	Jan. 18, 2010	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	N/A	Nov. 10, 2010	Conduction (CO01-KS)

 $<sup>\</sup>ensuremath{\,\times\,}$  Calibration Interval of instruments listed above is one year.

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# 8. Uncertainty of Test Site

## <u>Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)</u>

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

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

	Uncerta	ainty of $X_i$		
Contribution	dB	Probability	$u(x_i)$	
	dВ	Distribution		
Receiver reading	0.27	Normal(k=2)	0.14	
Antenna factor calibration	0.92	Normal(k=2)	0.46	
Cable loss calibration	0.16	Normal(k=2)	0.08	
Pre Amplifier Gain calibration	0.17	Normal(k=2)	0.09	
RCV/SPA specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site imperfection	1.99	Rectangular	1.15	
Mismatch	+0.50/-0.54	U-shaped	0.37	
combined standard uncertainty Uc(y)		1.52		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	3.04			

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