



STC Test Report

Date : 2007-06-01

Page 1 of 21

No. : HM158845

Applicant (STS002): Futaba Corporation
629 Oshiba , Mobara, Chiba Prefecture 297-8588, Japan

Manufacturer: Dongang Electronic Co., Ltd.
3rd Floor, No. 48, GongHe Industry Road, GongLe, Xixiang
Town, BaoAn Area, Shenzhen City

Description of Samples: Model Name: Remote Controller and Receiver
Brand Name: Futaba
Model Number: RCC-R11
FCC ID: AZPRRC-R11

Date Samples Received: 2007-05-18

Date Tested: 2007-05-22

Investigation Requested: Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2006 and ANSI C63.4:2003 for FCC Certification.

Conclusions: The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks: ----

LEE Kam Chuen,
ElectroMagnetic Compatibility Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: www.hkstc.org E-mail: hkstc@hkstc.org

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STC Test Report

Date : 2007-06-01

Page 2 of 21

No. : HM158845

CONTENT:

Cover	Page 1 of 21
Content	Page 2-3 of 21
<u>1.0</u> <u>General Details</u>	
1.1 Test Laboratory	Page 4 of 21
1.2 Applicant Details	Page 4 of 21
Applicant	
HKSTC Code Number for Applicant	
Manufacturer	
1.3 Equipment Under Test [EUT]	Page 5 of 21
Description of EUT operation	
1.4 Date of Order	Page 5 of 21
1.5 Submitted Sample	Page 5 of 21
1.6 Test Duration	Page 5 of 21
1.7 Country of Origin	Page 5 of 21
<u>2.0</u> <u>Technical Details</u>	
2.1 Investigations Requested	Page 6 of 21
2.2 Test Standards and Results Summary	Page 6 of 21
<u>3.0</u> <u>Test Results</u>	
3.1 Radiated Emission	Page 7-14 of 21
3.2 Conducted Emission	Page 15-17 of 21

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STC Test Report

Date : 2007-06-01

Page 3 of 21

No. : HM158845

Appendix A

List of Measurement Equipment

Page 18 of 21

Appendix B

Photographs

Page 19-21 of 21

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STC Test Report

Date : 2007-06-01

Page 4 of 21

No. : HM158845

1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate
New Territories, Hong Kong

1.2 Applicant Details **Applicant**

Futaba Corporation
629 Oshiba , Mobara, Chiba Prefecture 297-8588, Japan

Manufacturer

Dongang Electronic Co., Ltd.
3rd Floor, No. 48, GongHe Industry Road, GongLe,
Xixiang Town, BaoAn Area, Shenzhen City

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong
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STC Test Report

Date : 2007-06-01

Page 5 of 21

No. : HM158845

1.3 Equipment Under Test [EUT]

Description of Sample

Model Name: Remote Controller and Receiver
Manufacturer: Dongang Electronic Co., Ltd.
Brand Name: Futaba
Model Number: RCC-R11
Input Voltage: 6Vd.c. ("AAA" size battery x 4)

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Futaba Corporation, Remote Controller and Receiver, the transmission signal is frequency hopping with channel frequency range 2.410-2.470 GHz.

1.4 Date of Order

2007-05-18

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2007-05-22

1.7 Country of Origin

China

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STC Test Report

Date : 2007-06-01

Page 6 of 21

No. : HM158845

2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.4:2003 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION						
Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2003	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note: N/A - Not Applicable

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STC Test Report

Date : 2007-06-01

Page 7 of 21

No. : HM158845

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

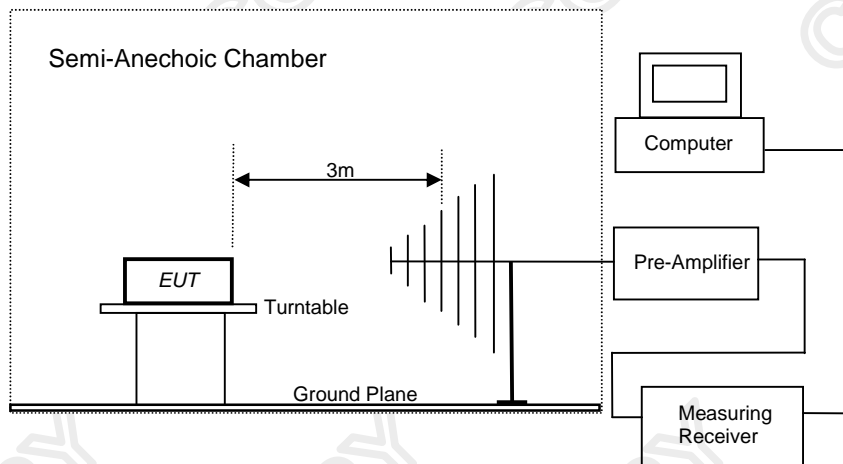
Test Requirement: FCC 47CFR 15.249
Test Method: ANSI C63.4:2003
Test Date: 2007-05-22
Mode of Operation: On Mode & On Mode Connected to PC

Test Method:

The sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-anechoic chamber located on the G/F of HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

Test Setup:



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STC Test Report

Date : 2007-06-01

Page 8 of 21

No. : HM158845

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Lowest Channel Frequency: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2410.0	29.1	29.7	58.8	871.0	50,000	Horizontal
* 4820.0	No Emission Detected				500	Horizontal
7230.0					500	Vertical
9640.0					500	Vertical
* 12050.0					500	Vertical
14460.0					500	Vertical
16870.0					500	Vertical
* 19280.0					500	Vertical
21690.0					500	Vertical
24100.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2410.0	4.6	29.7	34.3	51.9	50,000	Horizontal

Remarks:

- *: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz \pm 5.2dB
1GHz to 18GHz \pm 5.1dB

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STC Test Report

Date : 2007-06-01

Page 9 of 21

No. : HM158845

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Mid Channel Frequency: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2440.0	31.6	29.8	61.4	1,174.9	50,000	Horizontal
* 4880.0	No Emission Detected				500	Horizontal
7320.0					500	Vertical
9760.0					500	Vertical
* 12200.0					500	Vertical
14640.0					500	Vertical
17080.0					500	Vertical
* 19520.0					500	Vertical
21960.0					500	Vertical
24400.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2440.0	5.3	29.8	35.1	56.9	50,000	Horizontal

Remarks:

- *: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz \pm 5.2dB
1GHz to 18GHz \pm 5.1dB

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STC Test Report

Date : 2007-06-01

Page 10 of 21

No. : HM158845

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Highest Channel Frequency: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2470.0	29.0	29.9	58.9	881.0	50,000	Horizontal
* 4940.0	No Emission Detected				500	Horizontal
7410.0					500	Vertical
9880.0					500	Vertical
* 12350.0					500	Vertical
14820.0					500	Vertical
17290.0					500	Vertical
* 19760.0					500	Vertical
22230.0					500	Vertical
24700.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2470.0	4.2	29.9	34.1	50.7	50,000	Horizontal

Remarks:

- *: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz \pm 5.2dB
1GHz to 18GHz \pm 5.1dB

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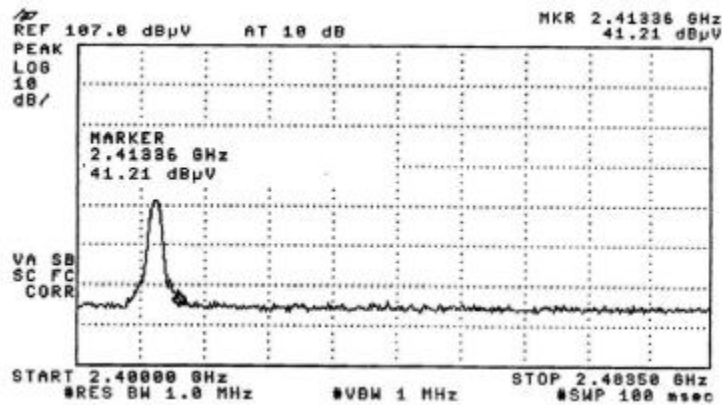
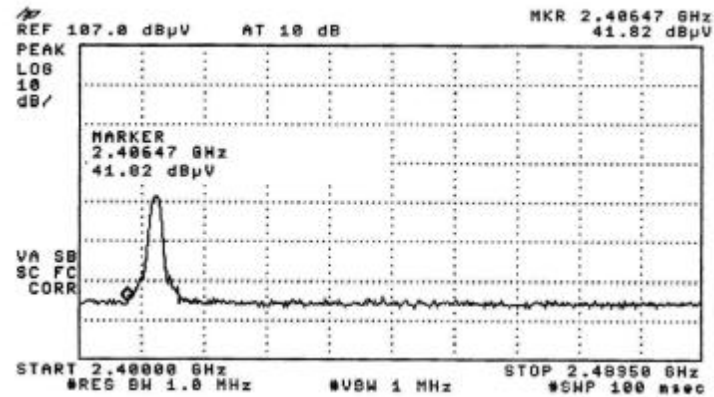
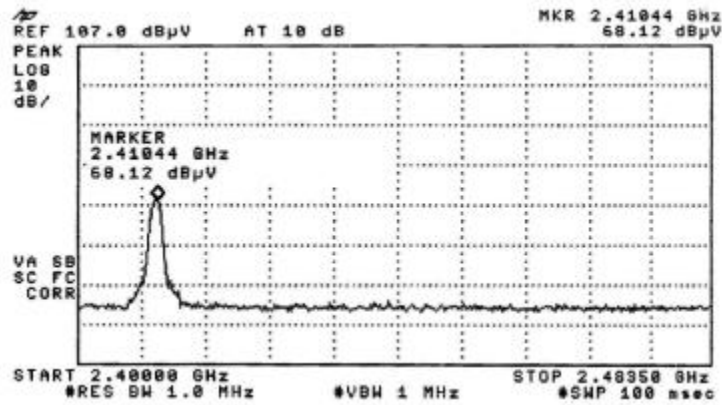
STC Test Report

Date : 2007-06-01

Page 11 of 21

No. : HM158845

Lowest Channel Frequency



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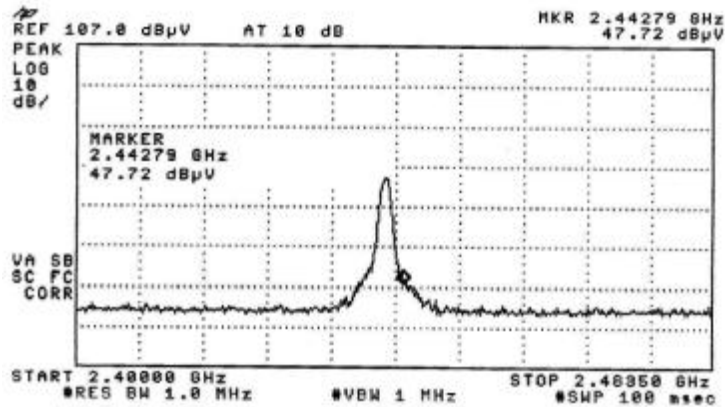
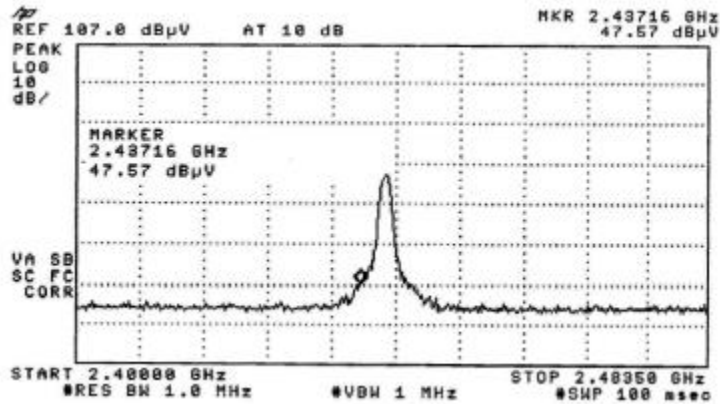
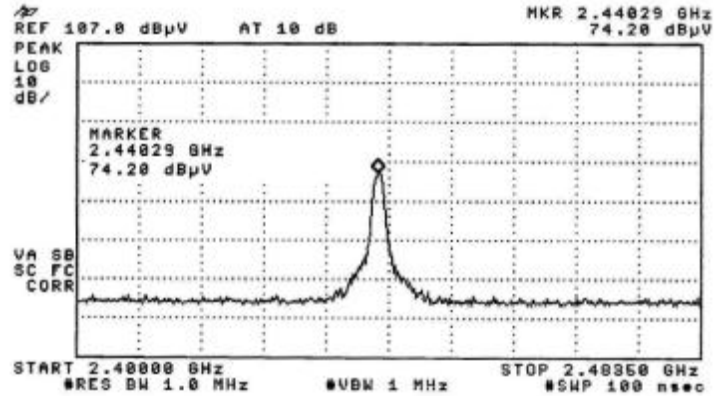
STC Test Report

Date : 2007-06-01

Page 12 of 21

No. : HM158845

Mid Channel Frequency



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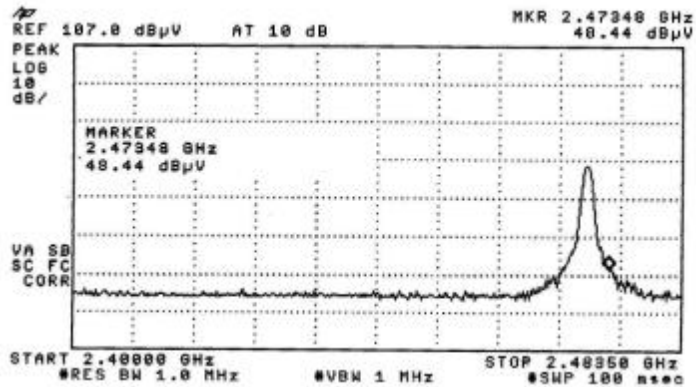
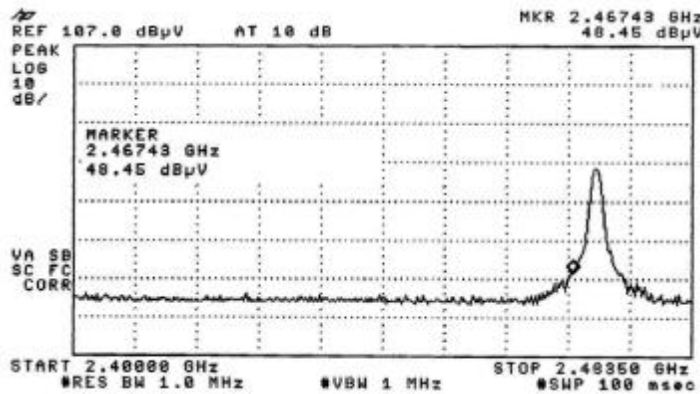
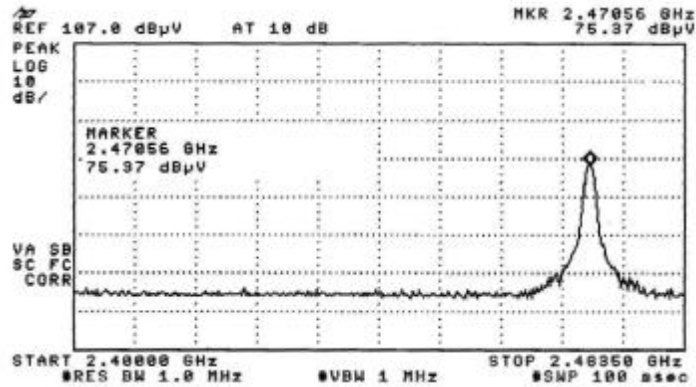
STC Test Report

Date : 2007-06-01

Page 13 of 21

No. : HM158845

Highest Channel Frequency



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STC Test Report

Date : 2007-06-01

Page 14 of 21

No. : HM158845

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [V/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of On Mode Connect to PC: Pass

Radiated Emissions Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dB μ V/m	Limit @3m dB μ V/m	Level @3m @3m μ V/m	Limit @3m μ V/m
219.0	33.4	36.2	46	64.6	200

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz \pm 5.2dB
1GHz to 18GHz \pm 5.1dB

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STC Test Report

Date : 2007-06-01

Page 15 of 21

No. : HM158845

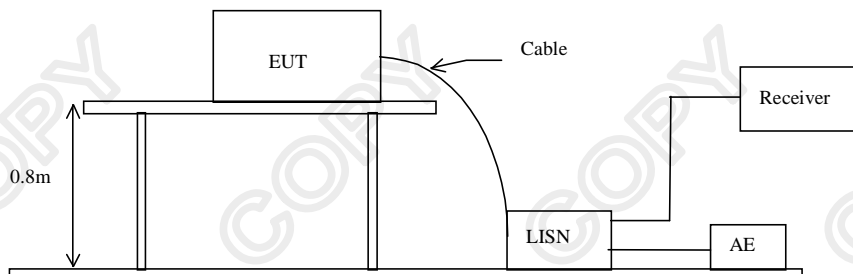
3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.107
Test Method: ANSI C63.4:2003
Test Date: 2007-05-22
Mode of Operation: Rx On Mode Connected to PC

Test Method:

The test was performed in accordance with ANSI C63.4: 2003, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



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STC Test Report

Date : 2007-06-01

Page 16 of 21

No. : HM158845

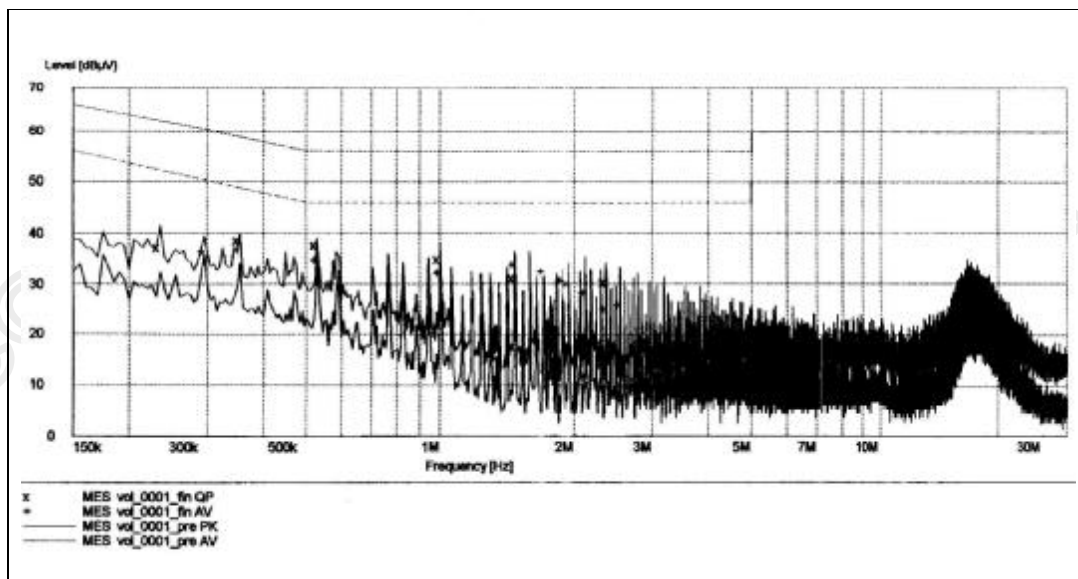
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dB μ V]	Average [dB μ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Rx On Mode Connected to PC: PASS



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STC Test Report

Date : 2007-06-01

Page 17 of 21

No. : HM158845

Results of Rx On Mode Connected to PC: PASS`

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V/m	Limit dB μ V/m	Level μ V/m	Limit μ V/m
Live	0.235	37.2	62	-*-	-*-
Live	0.295	-*-	-*-	36.3	50
Live	0.355	38.5	59	-*-	-*-
Live	0.530	37.6	56	34.7	46
Live	1.000	34.9	56	32.2	46
Live	1.470	31.2	56	33.8	46
Live	1.710	-*-	-*-	32.4	46
Live	1.885	-*-	-*-	30.6	46
Live	1.945	-*-	-*-	29.6	46
Live	2.120	-*-	-*-	28.3	46
Live	2.355	30.3	56	25.0	46
Live	2.535	-*-	-*-	25.7	46

Remarks:

Calculated measurement uncertainty : ± 3.97 dB

-*- Emission(s) that is far below the corresponding limit line.

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STC Test Report

Date : 2007-06-01

Page 18 of 21

No. : HM158845

Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410
EM011	ATTENUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262
EM020	HORN ANTENNA	ETS-Linggren	3115	4032
EM022	LOOP ANTENNA	ETS-Linggren	6502	1189-2424
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892
EM083	OPEN AREA TEST SITE	HKSTC	N/A	N/A
EM131	EMC ANALYZER	HEWLETT PACKARD	8595EM	3710A00155
EM145	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCS 30	830245/021
EM195	ANTENNA POSITIONING MAST	ETS-Linggren	2075	2368
EM196	MULTI-DEVICE CONTROLLER	ETS-Linggren	2090	1662
EM215	MULTIDEVICE CONTROLLER	ETS-Linggren	2090	00024676
EM216	MINI MAST SYSTEM	ETS-Linggren	2075	00026842
EM217	ELECTRIC POWERED TURNTABLE	ETS-Linggren	2088	00029144
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3	--
EM219	BICONILOG ANTENNA	ETS-Linggren	3142C	00029071
EM229	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB40	100248

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.
EM078	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	N/A
EM081	SMALL SCREENED ROOM	MIKO INST HK	N/A	N/A
EM119	LISN	ROHDE & SCHWARZ	ESH3-Z5	0831.5518.52
EM127	ISOLATION TRANSFORMER 220 TO 300V	WING SUN	N/A	N/A
EM233	PULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	100314
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057-99A
M197	LISN	ETS-Linggren	4825/2	1193

Remarks:-

CM Corrective Maintenance
N/A Not Applicable or Not Available
TBD To Be Determined

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong
Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: www.hksc.org E-mail: hkstc@hkstc.org

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STC Test Report

Date : 2007-06-01

Page 19 of 21

No. : HM158845

Appendix B

Photographs of EUT

Front View of the product



Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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STC Test Report

Date : 2007-06-01

Page 20 of 21

No. : HM158845

Photographs of EUT

Measurement of Radiated Emission Test Set Up



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Date : 2007-06-01

Page 21 of 21

No. : HM158845

Photographs of EUT

Measurement of Conducted Emission Test Set Up



***** End of Test Report *****

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