



STC Test Report

Date : 2007-10-09

Page 1 of 21

No. : MH181854

Applicant (STD003):

Guangzhou Hua Du Koda Electronics Co., Ltd.
33, Hongmian Road, Xinhua Industrial Park, Xinhua Town,
Hua Du District, Guangzhou City, China

Manufacturer:

Guangzhou Hua Du Koda Electronics Co., Ltd.
33, Hongmian Road, Xinhua Industrial Park, Xinhua Town,
Hua Du District, Guangzhou City, China

Description of Samples:

Product: Home Theatre System
Brand Name: KODA
Model Number: BT900
FCC ID: VNOBT900

Date Samples Received: 2007-08-15

Date Tested: 2007-08-31

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:

Dr. 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

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STC Test Report

Date : 2007-10-09

Page 2 of 21

No. : MH181854

CONTENT:

| | |
|--|------------------|
| Cover | Page 1 of 21 |
| Content | Page 2 of 21 |
| <u>1.0 General Details</u> | |
| 1.1 Test Laboratory | Page 3 of 21 |
| 1.2 Applicant Details | Page 3 of 21 |
| Applicant | |
| Manufacturer | |
| 1.3 Equipment Under Test [EUT] | Page 4 of 21 |
| Description of EUT operation | |
| 1.4 Date of Order | Page 4 of 21 |
| 1.5 Submitted Sample | Page 4 of 21 |
| 1.6 Test Duration | Page 4 of 21 |
| 1.7 Country of Origin | Page 4 of 21 |
| <u>2.0 Technical Details</u> | |
| 2.1 Investigations Requested | Page 5 of 21 |
| 2.2 Test Standards and Results Summary | Page 5 of 21 |
| <u>3.0 Test Results</u> | |
| 3.1 Radiated Emission | Page 6-14 of 21 |
| 3.2 Conducted Emission | Page 15-17 of 21 |
| <u>Appendix A</u> | |
| List of Measurement Equipment | Page 18 of 21 |
| <u>Appendix B</u> | |
| Photographs | Page 19-21 of 21 |

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STC Test Report

Date : 2007-10-09

Page 3 of 21

No. : MH181854

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

Guangzhou Hua Du Koda Electronics Co., Ltd.
33, Hongmian Road, Xinhua Industrial Park, Xinhua Town,
Hua Du District, Guangzhou City, China

Manufacturer

Guangzhou Hua Du Koda Electronics Co., Ltd.
33, Hongmian Road, Xinhua Industrial Park, Xinhua Town,
Hua Du District, Guangzhou City, China

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STC Test Report

Date : 2007-10-09

Page 4 of 21

No. : MH181854

1.3 Equipment Under Test [EUT]

Description of Sample

| | |
|----------------|---|
| Model Name: | Home Theatre System |
| Manufacturer: | Guangzhou Hua Du Koda Electronics Co., Ltd. |
| Brand Name: | KODA |
| Model Number: | BT900 |
| Input Voltage: | 117Va.c. |

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Guangzhou Hua Du Koda Electronics Co., Home Theatre System; the transmission signal is frequency hopping with channel frequency range 2402.3-2480.3MHz.

1.4 Date of Order

2007-08-15

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2007-08-31

1.7 Country of Origin

China

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STC Test Report

Date : 2007-10-09

Page 5 of 21

No. : MH181854

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 | |
| Field Strength of Fundamental & Harmonics Emissions | FCC 47CFR 15.249 | ANSI C63.4:2003 | N/A | <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| Radiated Emissions | FCC 47CFR 15.209 | ANSI C63.4:2003 | N/A | <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| Conducted Emissions on AC, 0.15MHz to 30MHz | FCC 47CFR 15.207 | ANSI C63.4:2003 | N/A | <input checked="" type="checkbox"/> <input type="checkbox"/> | |

Note: N/A - Not Applicable

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STC Test Report

Date : 2007-10-09

Page 6 of 21

No. : MH181854

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

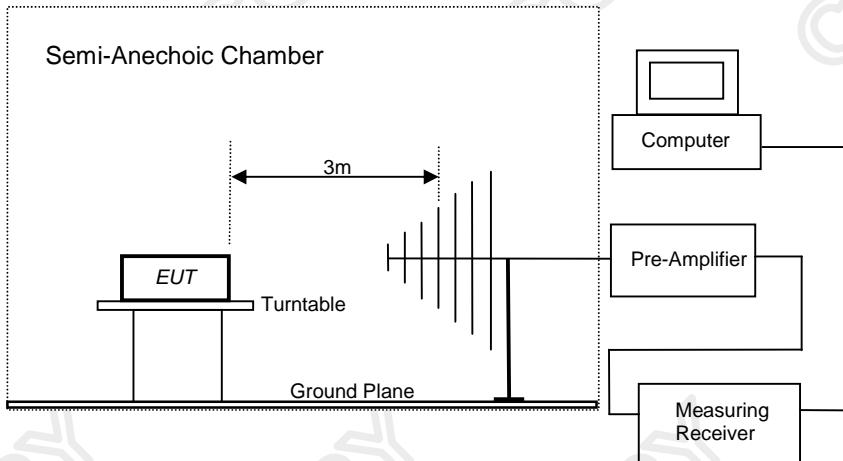
Test Requirement: FCC 47CFR 15.249
Test Method: ANSI C63.4:2003
Test Date: 2007-08-31
Mode of Operation: Bluetooth Mode & Audio Input Mode

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 : 2007-10-09

Page 7 of 21

No. : MH181854

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 Bluetooth Mode (2402.3MHz): 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 |
| 2402.3 | 47.5 | 39.0 | 86.5 | 21,134.9 | 50,000 | Vertical |
| * | 4804.6 | | | | 500 | Vertical |
| | 7206.9 | | | | 500 | Vertical |
| | 9609.2 | | | | 500 | Vertical |
| * | 12011.5 | | | | 500 | Vertical |
| | 14413.8 | | | | 500 | Vertical |
| | 16816.1 | | | | 500 | Vertical |
| * | 19218.4 | | | | 500 | Vertical |
| | 21620.7 | | | | 500 | Vertical |
| | 24023.0 | | | | 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 |
| 2402.3 | 47.3 | 39.0 | 86.3 | 20,653.8 | 50,000 | Vertical |

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 5.2dB
1GHz to 18GHz 5.1dB

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STC Test Report

Date : 2007-10-09

Page 8 of 21

No. : MH181854

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 Bluetooth Mode (2441.3MHz): 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 |
| 2441.3 | 47.2 | 39.0 | 86.2 | 20,417.4 | 50,000 | Vertical |
| * | 4882.6 | | | | 500 | Vertical |
| * | 7323.9 | | | | 500 | Vertical |
| | 9765.2 | | | | 500 | Vertical |
| * | 12206.5 | | | | 500 | Vertical |
| | 14647.8 | | | | 500 | Vertical |
| | 17089.1 | | | | 500 | Vertical |
| * | 19530.4 | | | | 500 | Vertical |
| | 21971.7 | | | | 500 | Vertical |
| | 24413.0 | | | | 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 |
| 2441.3 | 47.2 | 39.0 | 86.2 | 20,417.4 | 50,000 | Vertical |

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 5.2dB
1GHz to 18GHz 5.1dB

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STC Test Report

Date : 2007-10-09

Page 9 of 21

No. : MH181854

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 Bluetooth Mode (2480.3MHz): 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 |
| 2480.3 | 46.0 | 39.0 | 85.0 | 17,782.8 | 50,000 | Vertical |
| * | 4960.6 | | | | 500 | Vertical |
| | 7440.9 | | | | 500 | Vertical |
| | 9921.2 | | | | 500 | Vertical |
| * | 12401.5 | | | | 500 | Vertical |
| | 14881.8 | | | | 500 | Vertical |
| | 17362.1 | | | | 500 | Vertical |
| * | 19842.4 | | | | 500 | Vertical |
| * | 22322.7 | | | | 500 | Vertical |
| | 24803.0 | | | | 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 |
| 2480.3 | 46.0 | 39.0 | 85.0 | 17,782.8 | 50,000 | Vertical |

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 5.2dB
1GHz to 18GHz 5.1dB

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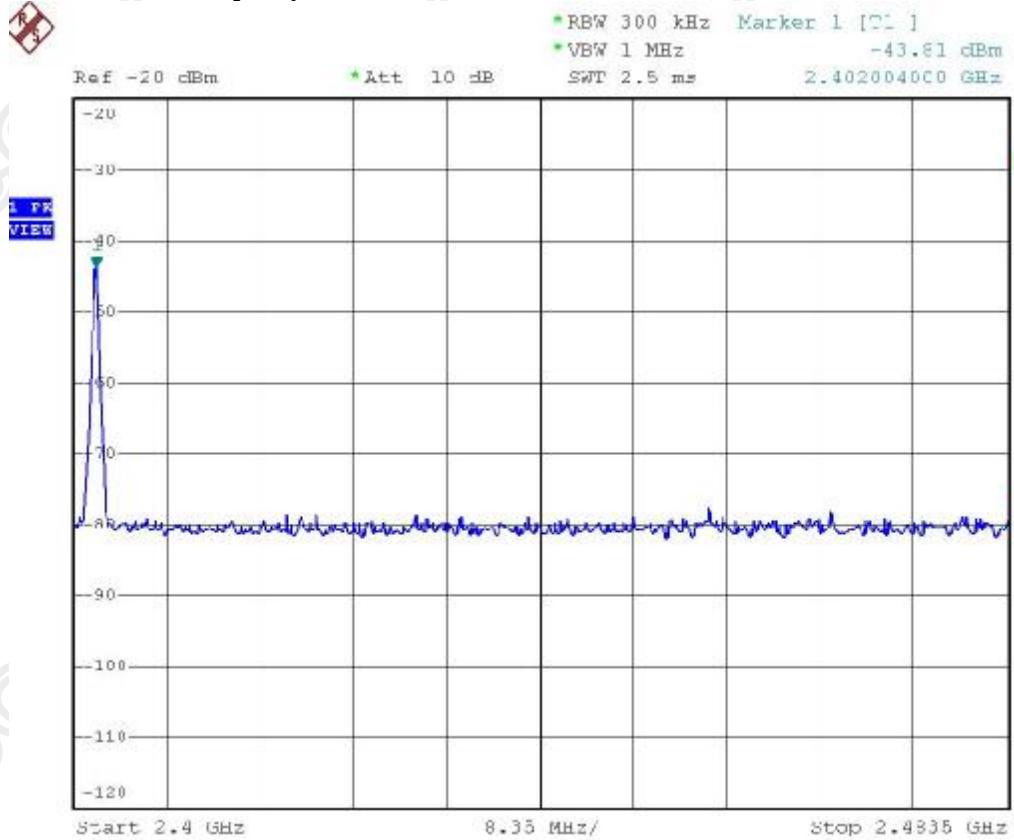
STC Test Report

Date : 2007-10-09

Page 10 of 21

No. : MH181854

Lowest Channel Frequency



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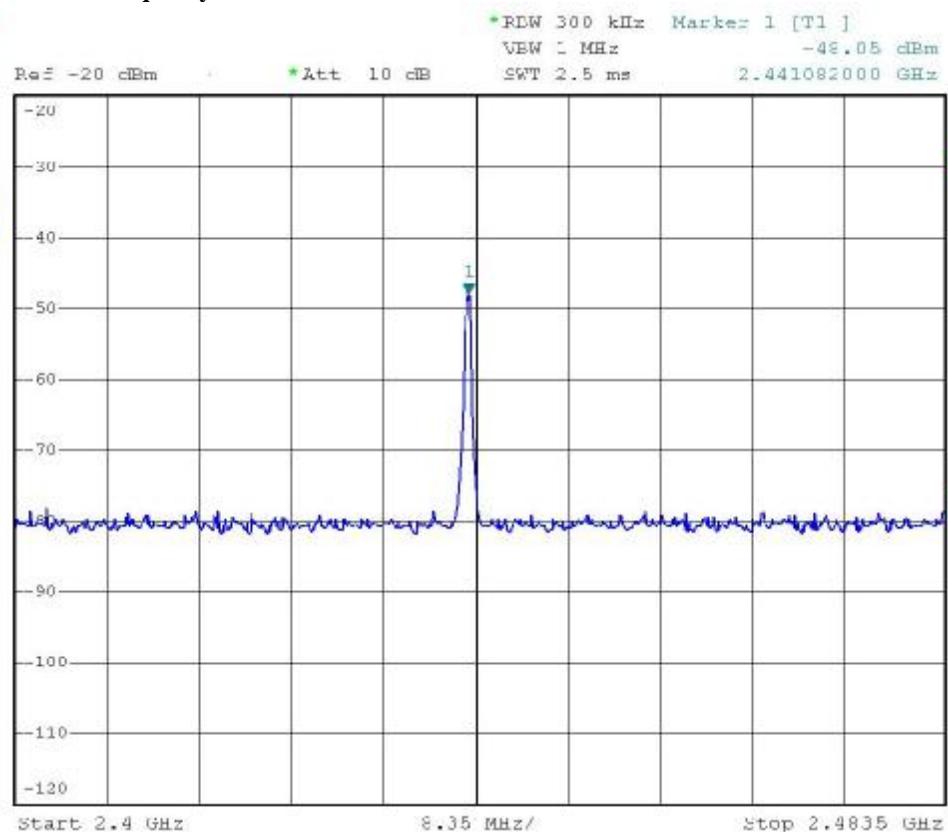
STC Test Report

Date : 2007-10-09

Page 11 of 21

No. : MH181854

Mid Channel Frequency



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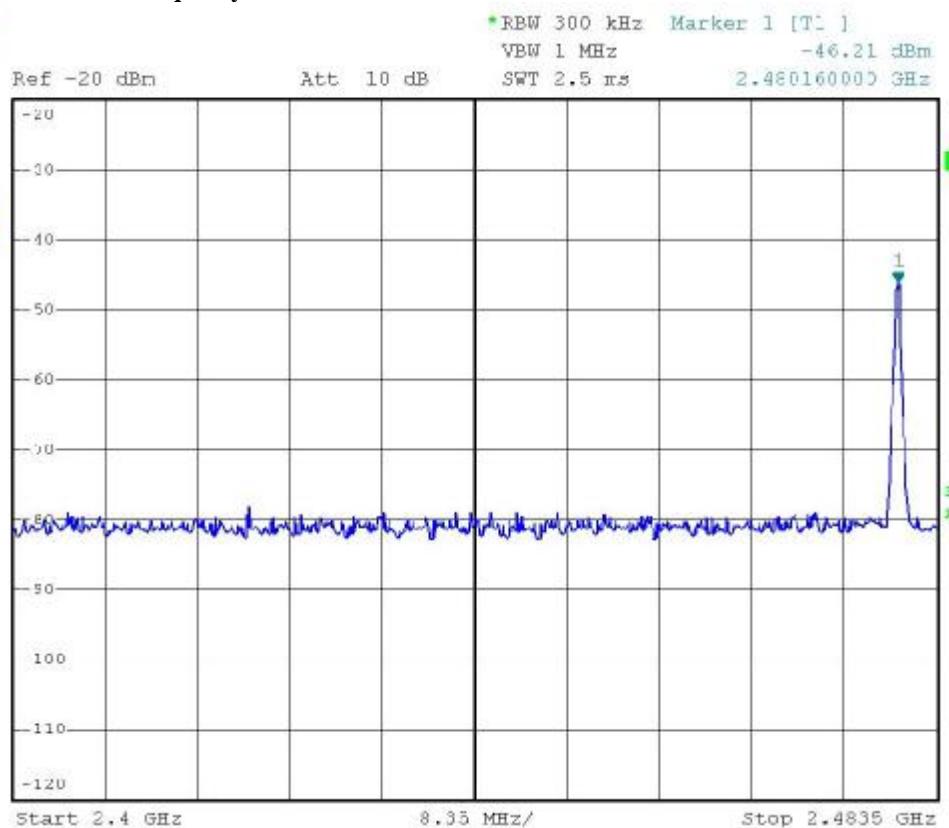
STC Test Report

Date : 2007-10-09

Page 12 of 21

No. : MH181854

Highest Channel Frequency



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STC Test Report

Date : 2007-10-09

Page 13 of 21

No. : MH181854

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

| Frequency Range [MHz] | Quasi-Peak Limits [μ 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 Bluetooth Mode: Pass

| Radiated Emissions Peak | | | | | |
|------------------------------|---------------------|------------------------------|------------------------------|------------------------|---------------------------|
| Emission Frequency MHz | E-Field Polarity | Level @3m dB μ V/m | Limit @3m dB μ V/m | Level @3m μ V/m | Limit @3m μ V/m |
| 128.0 | Vertical | 24.5 | 43.5 | 16.8 | 150 |
| 2483.5 | Vertical | 39.4 | 46.0 | 93.3 | 200 |

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

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

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STC Test Report

Date : 2007-10-09

Page 14 of 21

No. : MH181854

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

| Frequency Range [MHz] | Quasi-Peak Limits [μ 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 Audio Input Mode: Pass

| Radiated Emissions Peak | | | | | |
|------------------------------|---------------------|------------------------------|------------------------------|------------------------|--------------------|
| Emission Frequency MHz | E-Field Polarity | Level @3m dB μ V/m | Limit @3m dB μ V/m | Level @3m μ V/m | Limit μ V/m |
| 73.0 | Vertical | 26.6 | 40.0 | 21.4 | 100 |
| 160.0 | Vertical | 31.1 | 43.5 | 35.9 | 150 |
| 176.0 | Vertical | 33.4 | 43.5 | 46.8 | 150 |

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

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

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STC Test Report

Date : 2007-10-09

Page 15 of 21

No. : MH181854

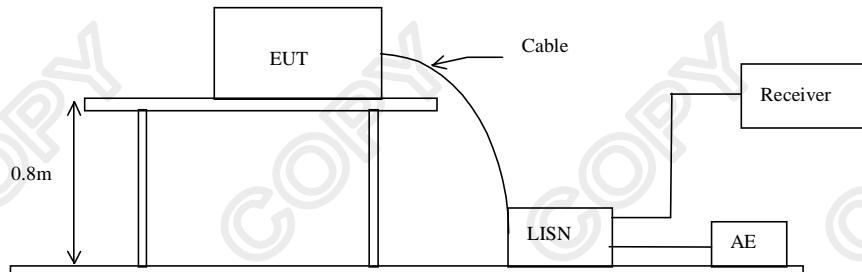
3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.107
Test Method: ANSI C63.4:2003
Test Date: 2007-08-31
Mode of Operation: Bluetooth Mode & Audio Input Mode

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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Date : 2007-10-09

Page 16 of 21

No. : MH181854

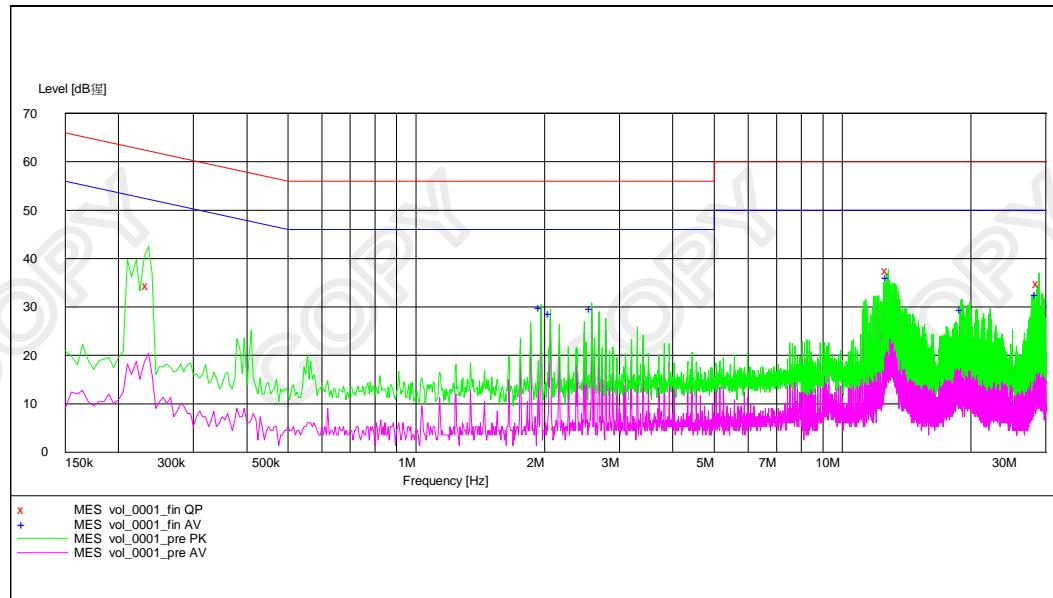
Limit for Conducted Emissions (FCC 47 CFR 15.107):

| 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 Bluetooth Mode: PASS



Remarks:

Calculated measurement uncertainty: 3.97dB

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STC Test Report

Date : 2007-10-09

Page 17 of 21

No. : MH181854

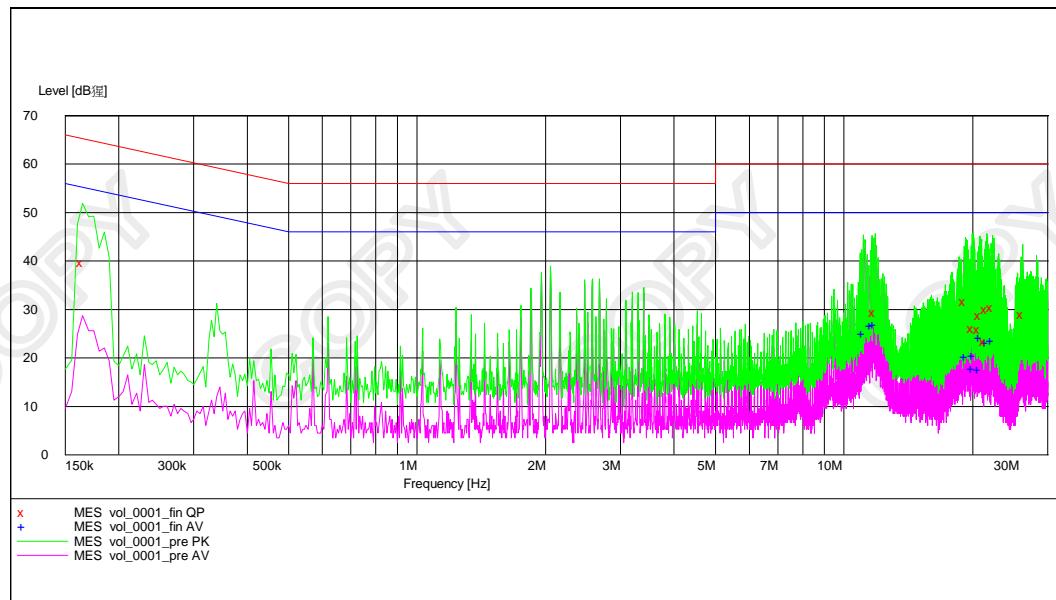
Limit for Conducted Emissions (FCC 47 CFR 15.107):

| 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 Audio Input Mode: PASS



Remarks:

Calculated measurement uncertainty: 3.97dB

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STC Test Report

Date : 2007-10-09

Page 18 of 21

No. : MH181854

Appendix A

List of Measurement Equipment

Radiated Emission

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL | DUE CAL |
|---------|----------------------------|-----------------|-----------|------------|------------|------------|
| EM215 | MULTIDEVICE CONTROLER | ETS-Linggren | 2090 | 00024676 | N/A | N/A |
| EM216 | MINI MAST SYSTEM | ETS-Linggren | 2075 | 00026842 | N/A | N/A |
| EM217 | ELECTRIC POWERED TURNTABLE | ETS-Linggren | 2088 | 00029144 | N/A | N/A |
| EM218 | ANECHOIC CHAMBER | ETS-Linggren | FACT-3 | -- | 2006/05/02 | 2009/05/02 |
| EM219 | BICONILOG ANTENNA | ETS-Linggren | 3142C | 00029071 | 2006/02/01 | 2008/02/01 |
| EM181 | EMI TEST RECEIVER | ROHDE & SCHWARZ | ESIB7 | 100072 | 2007/03/17 | 2008/03/17 |

Line Conducted

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL | DUE CAL |
|---------|-------------------|-------------------------------------|-----------|-----------------|------------|------------|
| EM119 | LISN | ROHDE & SCHWARZ | ESH3-Z5 | 0831.5518.52 | 2007/07/15 | 2008/07/15 |
| EM181 | EMI TEST RECEIVER | ROHDE & SCHWARZ | ESIB7 | 100072 | 2007/03/17 | 2008/03/17 |
| EM154 | SHIELDING ROOM | SIEMENA MATSUSHITA COMPONENTS | N/A | 803-740-057-99A | 2006/01/12 | 2008/01/12 |

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

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STC Test Report

Date : 2007-10-09

Page 19 of 21

No. : MH181854

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 : 2007-10-09

Page 20 of 21

No. : MH181854

Photographs of EUT

Measurement of Radiated Emission Test Set Up



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Date : 2007-10-09

Page 21 of 21

No. : MH181854

Photographs of EUT

Measurement of Conducted Emission Test Set Up



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

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