



Certificate of Compliance

for the FCC Declaration of Conformity Procedure from the

Conformity Assessment Body

Hong Kong Standards and Testing Centre

Designation Number: HK0001

on the basis of Asia-Pacific Economic Cooperation (APEC) economies' Mutual Recognition Arrangement for Conformity Assessment of Telecommunications Equipment (APEC Tel MRA) scheme sanctioned by the Federal Communications Commission of the United States Government.

Certificate Number: FCC002277
Test Laboratory: The Hong Kong Standards and Testing Centre Ltd.
Test Report / Issued date: MH189528 / 11 December 2013.
Applicant: Dragino Technology Co., Limited
Manufacturer: Dragino Technology Co., Limited
Type of Equipment: Wireless Sensor Node
Brand Name: Dragino Flukso
Model Number: MS14
Additional Model Number(s): FLM03B, MS14-P, MS14-S, MS14-MLC

Rules and Regulations

United States CFR 47 FCC Part 15 Subpart B (Unintentional Radiators).

Standards

ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.

Remark

This certificate shall be used in conjunction with the above mentioned test report.

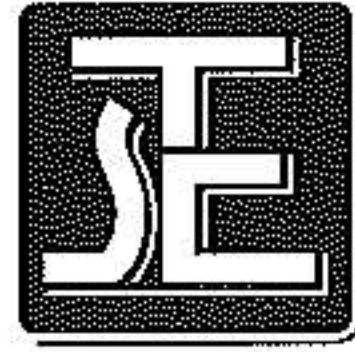

Signed by Dr. LEE Kam Chuen,

ElectroMagnetic Compatibility Department

For and on behalf of

Date: 2013-12-11

The Hong Kong Standards and Testing Centre Ltd.
(Conformity Assessment Body CAB under the APEC Tel MRA)



STC Test Report

Date: 2013-12-11

Page 1 of 17

No.: MH189528

Applicant(KAW001): Dragino Technology Co., Limited
Room 2073, Zi'An Commercial Building, Qian Jin 1 Road,
Xin'An 6th District, Bao'an District, Shenzhen 518101,
China

Manufacturer: Dragino Technology Co., Limited
Room 2073, Zi'An Commercial Building, Qian Jin 1 Road,
Xin'An 6th District, Bao'an District, Shenzhen 518101,
China

Description of Sample(s): Submitted sample(s) said to be
Product: Wireless Sensor Node
Brand Name: Dragino Flukso
Model Number: MS14

Date Sample(s) Received: 2013-11-24

Date Tested: 2013-11-24

Investigation Requested: FCC Part 15 Subpart B

Conclusion(s): 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.

Remark(s): The EUT operating frequency provided by manufacturer is 25MHz (RF function excluded).
For additional model(s) details, see page 3

Dr. LEE Kam-Chuen

Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Limited

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STC Test Report

Date: 2013-12-11

Page 2 of 17

No.: MH189528

CONTENT:

| | |
|-------------------|---|
| Cover | Page 1 of 17 |
| Content | Page 2 of 17 |
| <u>1.0</u> | <u>General Details</u> |
| 1.1 | Equipment Under Test [EUT] Description of sample(s) Page 3 of 17 |
| 1.2 | Description of EUT operation Page 3 of 17 |
| 1.3 | Date of Order Page 3 of 17 |
| 1.4 | Submitted Sample(s) Page 3 of 17 |
| 1.5 | Test Duration Page 3 of 17 |
| 1.6 | Country of Origin Page 3 of 17 |
| <u>2.0</u> | <u>Technical Details</u> |
| 2.1 | Investigations Requested Page 4 of 17 |
| 2.2 | Test Standards and Results Summary Page 4 of 17 |
| <u>3.0</u> | <u>Test Results</u> |
| 3.1 | Emission Page 5-12 of 17 |
| | <u>Appendix A</u> |
| | List of Measurement Equipment Page 13 of 17 |
| | <u>Appendix B</u> |
| | Ancillary Equipment Page 14 of 17 |
| | <u>Appendix C</u> |
| | Photographs Page 15-17 of 17 |

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STC Test Report

Date: 2013-12-11

Page 3 of 17

No.: MH189528

1.0 General Details

1.1 Equipment Under Test [EUT]

Description of Sample(s)

Submitted sample(s) said to be

Product: Wireless Sensor Node

Manufacturer: Dragino Technology Co., Limited
Room 2073, Zi'An Commercial Building, Qian Jin 1
Road, Xin'An 6th District, Bao'an District ; Shenzhen
518101,China

Brand Name: Dragino

Model Number: MS14

Additional Model Number(s): FLM03B, MS14-P, MS14-S, MS14-MLC

Rating: 12Vd.c. with Jack

The AC/DC adapter was provided by the applicant with following details:

Brand name: N/A; Model no.: GQ07-120050-AU; Input: 100-240Va.c. 50/60Hz 0.3A Max ;

Output: 12Vd.c. 500mA.

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is a Wireless Sensor Node of Dragino Technology Co., Limited. Test was conducted in On mode (connected to PC and ping with internet) to simulate the normal operating condition.

1.3 Date of Order

2013-11-24

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2013-11-24

1.6 Country of Origin

China

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STC Test Report

Date: 2013-12-11

Page 4 of 17

No.: MH189528

2.0 Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2012 and ANSI C63.4: 2009 for FCC DoC.

2.2 Test Standards and Results Summary Tables

| EMISSION Results Summary | | | | | |
|--|------------------|-----------------|---------------------|-------------------------------------|--------------------------|
| Test Condition | Test Requirement | Test Method | Class / Severity | Test Result | |
| | | | | Pass | Failed |
| Radiated Emissions | FCC 47CFR 15.109 | ANSI C63.4:2009 | Class B | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Conducted Emissions on AC, 0.15MHz to 30MHz | FCC 47CFR 15.107 | ANSI C63.4:2009 | Class B | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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STC Test Report

Date: 2013-12-11

Page 5 of 17

No.: MH189528

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

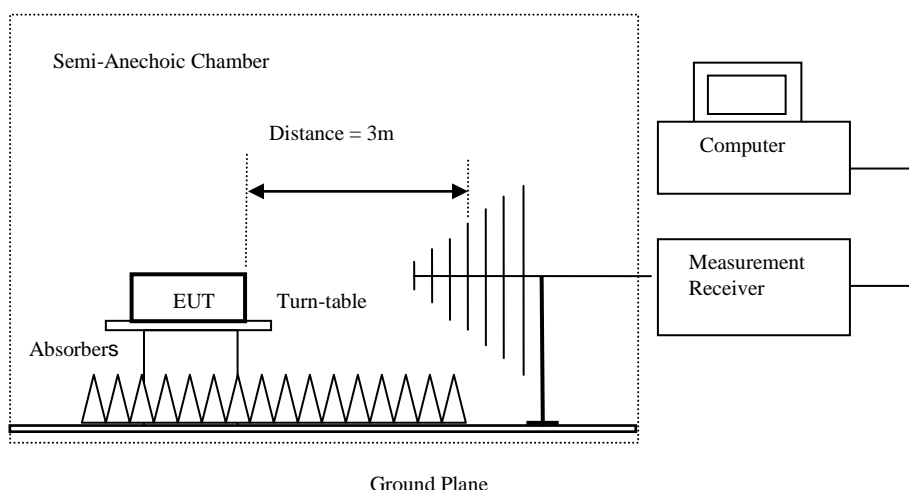
Test Requirement: FCC 47CFR 15.109
Test Method: ANSI C63.4:2009
Test Date: 2013-11-24
Mode of Operation: On mode (connected to PC and ping with internet)

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 The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.

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STC Test Report

Date: 2013-12-11

Page 6 of 17

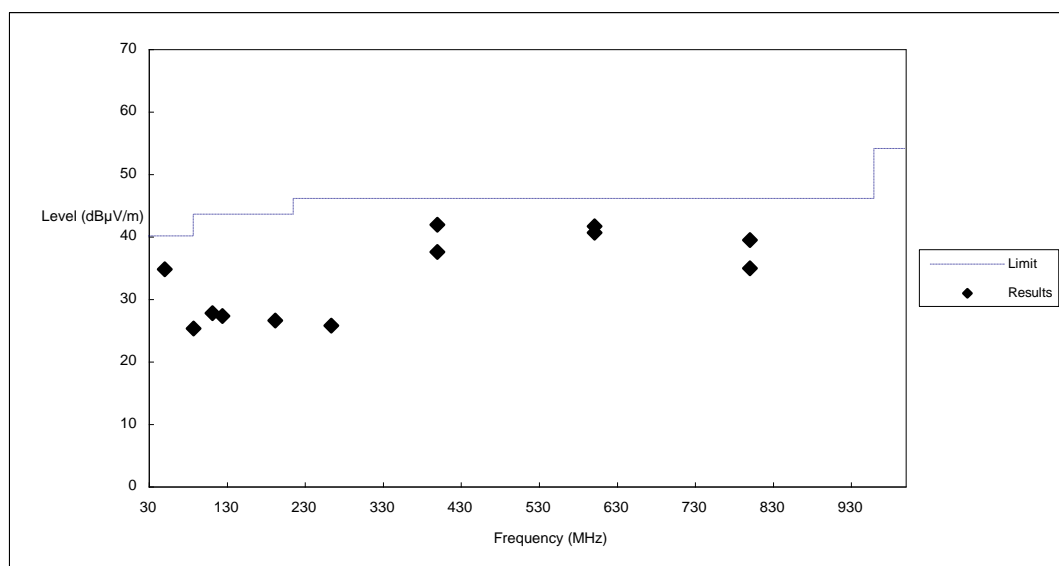
No.: MH189528

Limits for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

| Frequency Range [MHz] | Quasi-Peak Limits [$\mu\text{V}/\text{m}$] |
|--------------------------|---|
| 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 (connected to PC and ping with internet) : PASS



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STC Test Report

Date: 2013-12-11

Page 7 of 17

No.: MH189528

Results of On mode (connected to PC and ping with internet) : PASS

| Radiated Emissions Quasi-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 |
| 88.2 | Horizontal | 25.2 | 43.5 | 18.2 | 150 |
| 125.1 | Horizontal | 27.2 | 43.5 | 22.9 | 150 |
| 193.0 | Horizontal | 26.5 | 43.5 | 21.1 | 150 |
| 400.5 | Horizontal | 41.8 | 46.0 | 123.0 | 200 |
| 602.3 | Horizontal | 40.5 | 46.0 | 105.9 | 200 |
| 801.2 | Horizontal | 39.3 | 46.0 | 92.3 | 200 |
| 51.3 | Vertical | 34.7 | 40.0 | 54.3 | 100 |
| 112.5 | Vertical | 27.6 | 43.5 | 24.0 | 150 |
| 264.7 | Vertical | 25.6 | 46.0 | 19.1 | 200 |
| 400.5 | Vertical | 37.4 | 46.0 | 74.1 | 200 |
| 602.3 | Vertical | 41.6 | 46.0 | 120.2 | 200 |
| 801.2 | Vertical | 34.8 | 46.0 | 55.0 | 200 |

Remarks:

Calculated measurement uncertainty (30MHz – 1GHz): 4.9dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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STC Test Report

Date: 2013-12-11

Page 8 of 17

No.: MH189528

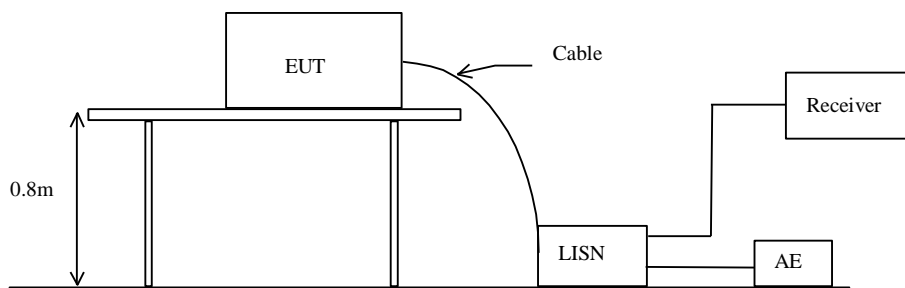
3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.107
Test Method: ANSI C63.4:2009
Test Date: 2013-11-24
Mode of Operation: On mode (connected to PC and ping with internet)

Test Method:

The test was performed in accordance with ANSI C63.4: 2009, 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: 2013-12-11

Page 9 of 17

No.: MH189528

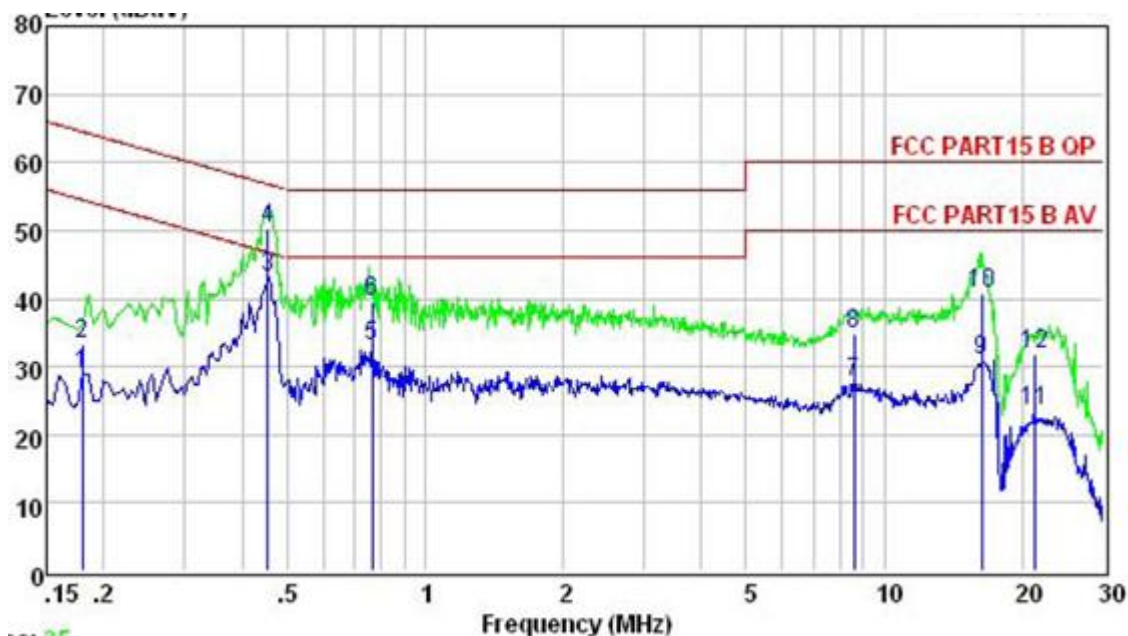
Limit for Conducted Emissions (FCC 47 CFR 15.107):

| 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 On mode (connected to PC and ping with internet, EUT mains) (L) : PASS



| Conductor Live or Neutral | Frequency MHz | Quasi-peak | | Average | |
|------------------------------|------------------|---------------------|---------------------|---------------------|---------------------|
| | | Level dB μ V | Limit dB μ V | Level dB μ V | Limit dB μ V |
| Live | 0.180 | 33.2 | 64.5 | 28.9 | 54.5 |
| Live | 0.454 | 50.2 | 56.8 | 43.2 | 46.8 |
| Live | 0.767 | 39.5 | 56.0 | 33.0 | 46.0 |
| Live | 8.592 | 34.7 | 60.0 | 27.8 | 50.0 |
| Live | 16.312 | 40.7 | 60.0 | 31.1 | 50.0 |
| Live | 21.147 | 31.9 | 60.0 | 23.5 | 50.0 |

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STC Test Report

Date: 2013-12-11

Page 10 of 17

No.: MH189528

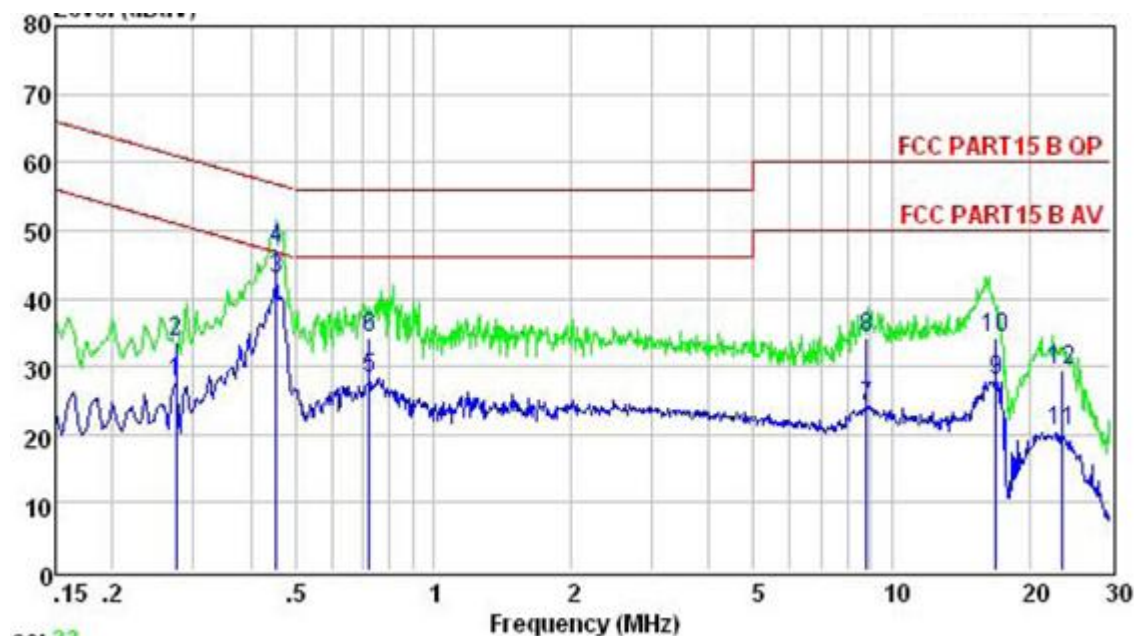
Limit for Conducted Emissions (FCC 47 CFR 15.107):

| 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 On mode (connected to PC and ping with internet, EUT mains) (N) : PASS



| Conductor Live or Neutral | Frequency MHz | Quasi-peak | | Average | |
|------------------------------|------------------|---------------------|---------------------|---------------------|---------------------|
| | | Level dB μ V | Limit dB μ V | Level dB μ V | Limit dB μ V |
| Neutral | 0.274 | 33.6 | 61.0 | 27.5 | 51.0 |
| Neutral | 0.454 | 47.3 | 56.8 | 42.8 | 46.8 |
| Neutral | 0.724 | 34.1 | 56.0 | 28.3 | 46.0 |
| Neutral | 8.822 | 34.1 | 60.0 | 24.2 | 50.0 |
| Neutral | 16.839 | 34.2 | 60.0 | 27.9 | 50.0 |
| Neutral | 23.511 | 29.6 | 60.0 | 20.5 | 50.0 |

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STC Test Report

Date: 2013-12-11

Page 11 of 17

No.: MH189528

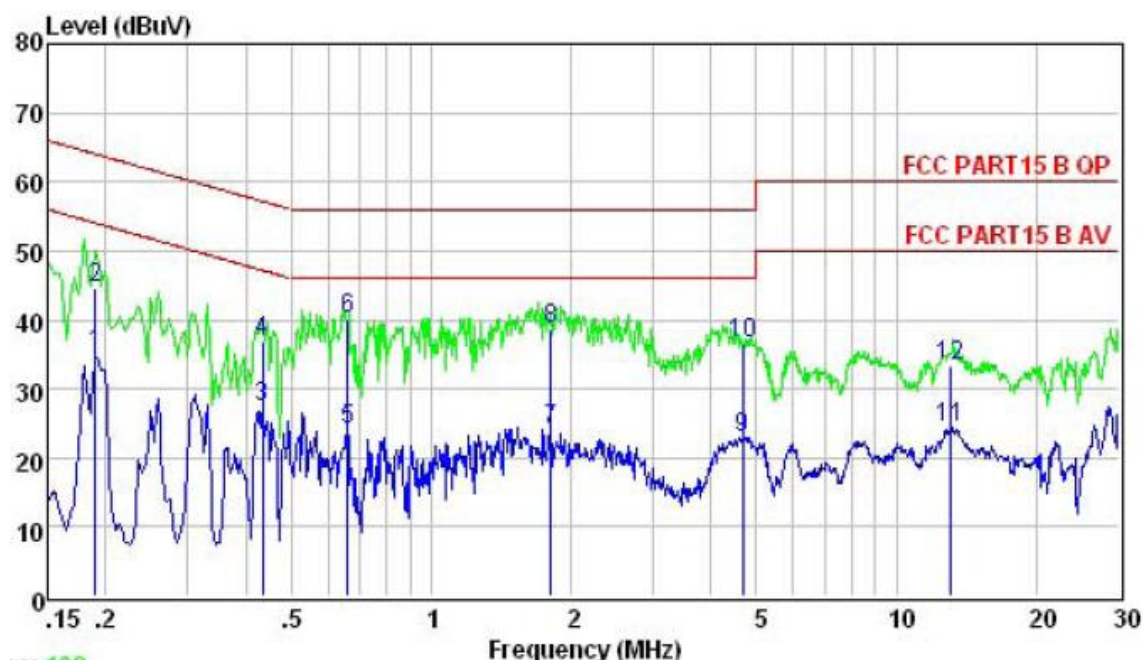
Limit for Conducted Emissions (FCC 47 CFR 15.107):

| 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 On mode (connected to PC and ping with internet, PC mains) (L) : PASS



| Conductor Live or Neutral | Frequency MHz | Quasi-peak | | Average | |
|------------------------------|------------------|---------------------|---------------------|---------------------|---------------------|
| | | Level dB μ V | Limit dB μ V | Level dB μ V | Limit dB μ V |
| Live | 0.190 | 44.6 | 64.0 | 35.0 | 54.0 |
| Live | 0.435 | 36.9 | 57.2 | 27.5 | 47.2 |
| Live | 0.661 | 40.0 | 56.0 | 24.1 | 46.0 |
| Live | 1.810 | 38.6 | 56.0 | 24.0 | 46.0 |
| Live | 4.672 | 36.6 | 56.0 | 22.9 | 46.0 |
| Live | 12.988 | 33.4 | 60.0 | 24.3 | 50.0 |

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STC Test Report

Date: 2013-12-11

Page 12 of 17

No.: MH189528

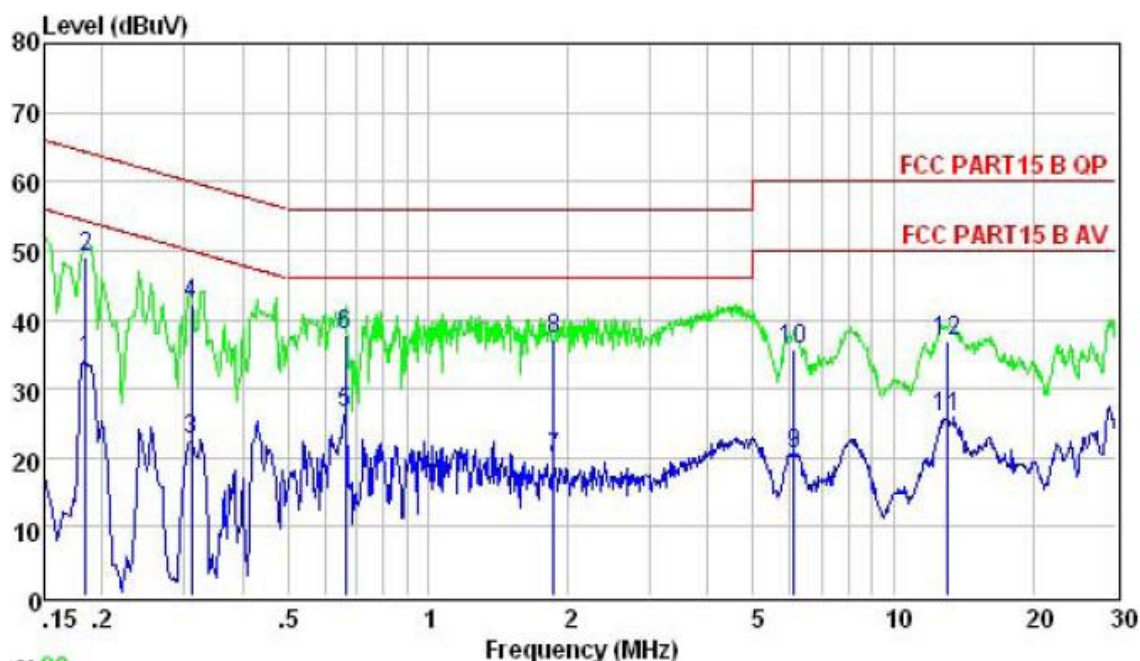
Limit for Conducted Emissions (FCC 47 CFR 15.107):

| 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 On mode (connected to PC and ping with internet, PC mains) (N) : PASS



| Conductor Live or Neutral | Frequency MHz | Quasi-peak | | Average | |
|------------------------------|------------------|---------------------|---------------------|---------------------|---------------------|
| | | Level dB μ V | Limit dB μ V | Level dB μ V | Limit dB μ V |
| Neutral | 0.184 | 49.0 | 64.3 | 34.1 | 54.3 |
| Neutral | 0.310 | 42.3 | 60.0 | 22.7 | 50.0 |
| Neutral | 0.665 | 37.8 | 56.0 | 26.3 | 46.0 |
| Neutral | 1.868 | 37.2 | 56.0 | 20.0 | 46.0 |
| Neutral | 6.121 | 35.6 | 60.0 | 20.6 | 50.0 |
| Neutral | 12.988 | 36.8 | 60.0 | 25.8 | 50.0 |

Remarks:

Calculated measurement uncertainty: ± 3.25 dB

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STC Test Report

Date: 2013-12-11

Page 13 of 17

No.: MH189528

Appendix A

List of Measurement Equipment

Radiated Emission

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL | DUE CAL |
|---------|--------------------------------------|--------------|-----------|------------|------------|------------|
| EM215 | MULTIDEVICE CONTROLLER | EMCO | 2090 | 00024676 | N/A | N/A |
| EM216 | MINI MAST SYSTEM | EMCO | 2075 | 00026842 | N/A | N/A |
| EM217 | ELECTRIC POWERED TURNTABLE | EMCO | 2088 | 00029144 | N/A | N/A |
| EM218 | ANECHOIC CHAMBER | ETS-LINDGREN | FACT-3 | -- | 2013/09/30 | 2014/09/30 |
| EM174 | BICONILOG ANTENNA | EMCO | 3142B | 1671 | 2012/05/31 | 2014/05/31 |
| EM229 | EMI TEST RECEIVER | R&S | ESIB40 | 100248 | 2013/05/07 | 2014/05/07 |
| EM299 | DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA | ETS-LINDGREN | 3115 | 00114120 | 2012/01/25 | 2014/01/25 |

Line Conducted

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL | DUE CAL |
|---------|-------------------|-------------------------------|-----------|-----------------|------------|------------|
| EM232 | LISN | SCHAFFNER | NNB41 | 04/100082 | 2013/04/15 | 2014/04/15 |
| EM145 | EMI TEST RECEIVER | R & S | ESCS 30 | 830245/021 | 2013/05/07 | 2014/05/07 |
| EM179 | IMPULSE LIMITER | ROHDE & SCHWARZ | ESH3-Z2 | 357-8810.52/54 | 2013/01/27 | 2014/01/27 |
| EM154 | SHIELDING ROOM | SIEMENS MATSUSHITA COMPONENTS | N/A | 803-740-057-99A | 2012/02/03 | 2017/02/03 |

Remarks:-

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

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STC Test Report

Date: 2013-12-11

Page 14 of 17

No.: MH189528

Appendix B

Ancillary Equipment

| ITEM NO. | DESCRIPTION | MODEL NO. | FCC ID | REMARK |
|----------|---------------|--------------------------|-----------|---|
| 1 | DELL COMPUTER | DMC | N/A | N/A |
| 2 | DELL MONITOR | E177FPB | ARSCM356N | RESOLUTION 1024*768 (DURING TESTING) 1.0M UNSHIEDED POWER VORD CONNECTED TO THE COMPUTER 1.5M SHIEDED CABLE CONNECTED TO THE COMPUTER |
| 3 | DELL KEYBOARD | SK-8110 | N/A | 1.8M SHIEDED COILED CABLE CONNECTED TO THE COMPUTER |
| 4 | DELL MOUSE | N/A | N/A | 2.4M UNSHIEDED CABLE CONNECTED TO THE COMPUTER |
| 5 | LASER PRINTER | HP LASERJET 1020 PLUS | N/A | 1.8M UNSHIEDED POWER CORD 2.8M SHIEDED CABLE (BUNDLED TO 1M) CONNECTED TO THE COMPUTER |

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STC Test Report

Date: 2013-12-11

Page 15 of 17

No.: MH189528

Appendix C

Photographs of EUT

Front View of the Product



Rear View of the Product



Front View of the Product



Rear View of the Product



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Date: 2013-12-11

Page 16 of 17

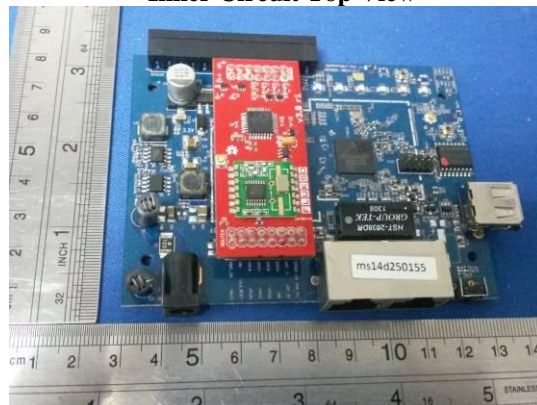
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Photographs of EUT

Side View of the Product



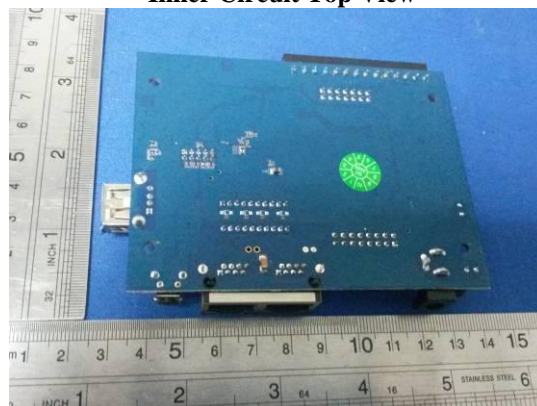
Inner Circuit Top View



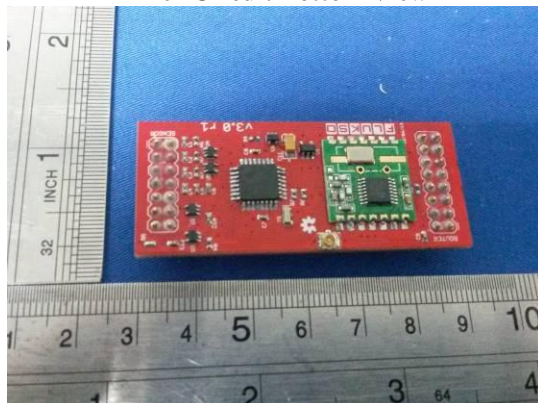
Inner Circuit Top View



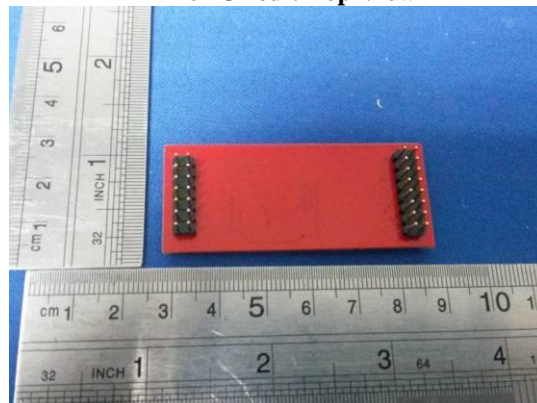
Inner Circuit Top View



Inner Circuit Bottom View



Inner Circuit Top View



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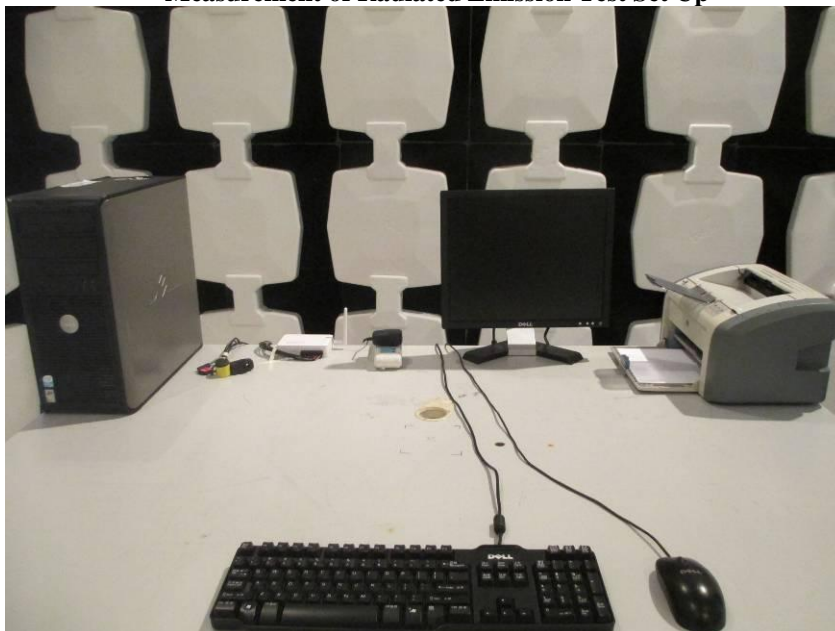
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Page 17 of 17

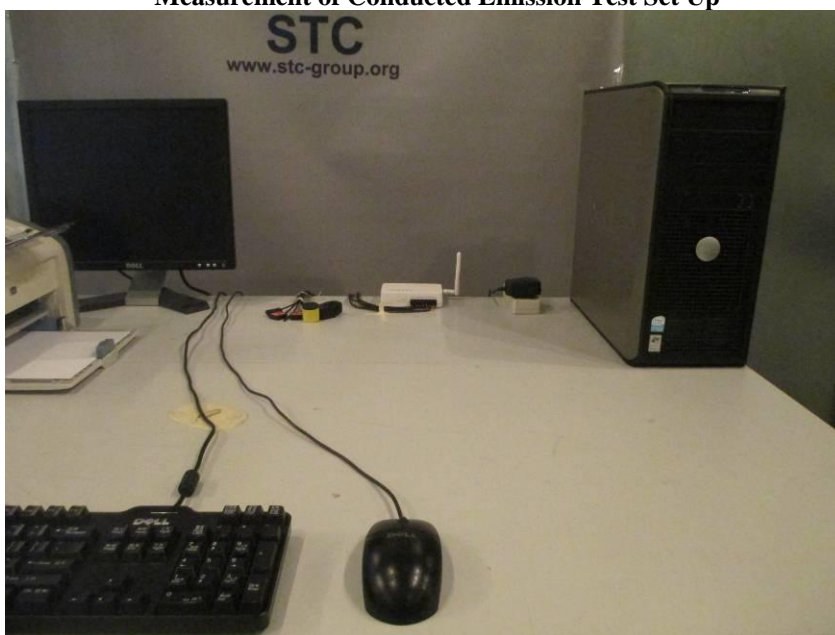
No.: MH189528

Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Conducted Emission Test Set Up



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

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