

FCC TEST REPORT (PART 22)

REPORT NO.: RF140124C26

MODEL NO.: USC5310

FCC ID: LDK53100936

RECEIVED: Jan. 27, 2014

TESTED: Jan. 28, 2014

ISSUED: Feb. 10, 2014

APPLICANT: Cisco Systems, Inc.

ADDRESS: 170 Tasman Drive, San Jose, CA95134, USA.

ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New

Taipei City, Taiwan (R.O.C.)

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-------------|-------------------|---------------|
| RF140124C26 | Original release | Feb. 10, 2014 |

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1 CERTIFICATION

PRODUCT: Universal Small Cell 5310 3G Module

MODEL: USC5310

BRAND: Cisco

APPLICANT: Cisco Systems, Inc.

TESTED: Jan. 28, 2014

TEST SAMPLE: Production Unit

STANDARDS: FCC PART 22, Subpart H

The above equipment (model: USC5310) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : , **DATE** : Feb. 10, 2014

Vera Huang / Specialist

APPROVED BY: , DATE: Feb. 10, 2014

Sam Chen / Assistant Manager



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 22 & Part 2 | | | | | |
|--|------------------------------|--------|--|--|--|
| STANDARD SECTION | TEST TYPE | RESULT | REMARK | | |
| 2.1046 22.913 (a) | Effective radiated power | PASS | Meet the requirement of limit. | | |
| 2.1055 22.355 | Frequency Stability | PASS | Meet the requirement of limit. | | |
| 2.1049 | Occupied Bandwidth | PASS | Meet the requirement of limit. | | |
| 22.917 | Band Edge Measurements | PASS | Meet the requirement of limit. | | |
| 2.1051 22.917 | Conducted Spurious Emissions | PASS | Meet the requirement of limit. | | |
| 2.1053 22.917 | Radiated Spurious Emissions | | Meet the requirement of limit. Minimum passing margin is -25.47dB at 38.37MHz. | | |

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | FREQUENCY | UNCERTAINTY |
|---------------------|-----------------|-------------|
| Conducted emissions | 150kHz~30MHz | 2.44 dB |
| | 30MHz ~ 200MHz | 2.93 dB |
| Radiated emissions | 200MHz ~1000MHz | 2.95 dB |
| Radiated emissions | 1GHz ~ 18GHz | 2.26 dB |
| | 18GHz ~ 40GHz | 1.94 dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



2.2 TEST SITE AND INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | MODEL NO. SERIAL NO. | | DUE DATE OF CALIBRATION |
|---|----------------|----------------------|---------------|-------------------------|
| Test Receiver ROHDE & SCHWARZ | ESCI | 100744 | Apr. 15, 2013 | Apr. 14, 2014 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSU43 | 101261 | Dec. 21, 2013 | Dec. 20, 2014 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-472 | Mar. 25, 2013 | Mar. 24, 2014 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D-209 | Sep. 12, 2013 | Sep. 11, 2014 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | 9170-480 | Dec. 18, 2013 | Dec. 17, 2014 |
| Loop Antenna | HFH2-Z2 | 100070 | Jan. 31, 2012 | Jan. 30, 2014 |
| Preamplifier EMCI | EMC 184045 | 980116 | Jan. 13, 2014 | Jan. 12, 2015 |
| Preamplifier EMCI | EMC 330H | 980112 | Dec. 27, 2013 | Dec. 26, 2014 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 309219/4 2950114 | Oct. 18, 2013 | Oct. 17, 2014 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 250130/4 | Oct. 18, 2013 | Oct. 17, 2014 |
| RF signal cable Worken | RG-213 | NA | Nov. 07, 2013 | Nov. 06, 2014 |
| Software | E3 6.120103 | NA | NA | NA |
| Antenna Tower MF | MFA-440H | NA | NA | NA |
| Turn Table MF | MFT-201SS | NA | NA | NA |
| Antenna Tower &Turn Table Controller MF-7802 MF | | NA | NA | NA |

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

^{2.} The test was performed in HwaYa Chamber 10.

^{3.} The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

^{4.} The FCC Site Registration No. is 690701.

^{5.} The IC Site Registration No. is IC 7450F-10.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

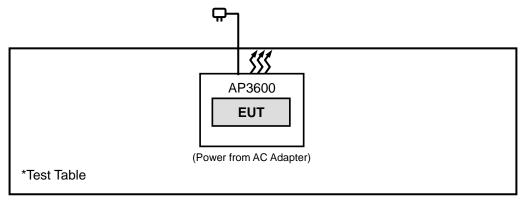
| EUT | Universal Small Cell 5310 3G Module |
|---------------------|-------------------------------------|
| MODEL NO. | USC5310 |
| POWER SUPPLY | 48Vdc (from adapter for AP3600) |
| MODULATION TYPE | BPSK |
| FREQUENCY RANGE | 871.4MHz ~ 891.6MHz |
| MAX. ERP POWER | 66.83mW |
| EMISSION DESIGNATOR | 4M17F9W |
| ANTENNA TYPE | Fixed Internal Antenna |
| I/O PORTS | Refer to users' manual |
| DATA CABLE | Refer to NOTE as below |
| ACCESSORY DEVICES | Refer to NOTE as below |
| S/N | FOC1802N511 |

NOTE:

1. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 CONFIGURATION OF SYSTEM UNDER TEST



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|------------|-------|-----------|-------------|-----------|
| 1 | AC Adapter | CISCO | AA25480L | ALD0551GEGL | N/A |
| 2 | PLATFORM | CISCO | AP3600 | FGL1703W2PL | LDK102075 |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | 1m power cable |
| 2 | N/A |

NOTE:

- 1. All power cords of the above support units are non shielded (1.8m).
- 2. Items 1-2 were provided by client.



3.4 TEST ITEM AND TEST CONFIGURATION

Following channel(s) was (were) selected for the final test as listed below:

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|-----------------------------------|-------------------|------------------|-------|
| ERP | 4357 to 4458 | 4357, 4407, 4458 | WCDMA |
| FREQUENCY STABILITY 4357 to 4458 | | 4407 | WCDMA |
| OCCUPIED BANDWIDTH | 4357 to 4458 | 4357, 4407, 4458 | WCDMA |
| BAND EDGE | 4357 to 4458 | 4357, 4458 | WCDMA |
| CONDCUDETED EMISSION 4357 to 4458 | | 4407 | WCDMA |
| RADIATED EMISSION | 4357 to 4458 | 4407 | WCDMA |

TEST CONDITION:

| TEST ITEM | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|-------------------------------------|--------------------------|--------------|------------|
| ERP | 25deg. C, 65%RH | 120Vac, 60Hz | Anson Lin |
| FREQUENCY STABILITY 25deg. C, 65%RH | | 120Vac, 60Hz | Howard Kao |
| OCCUPIED BANDWIDTH | 25deg. C, 65%RH | 120Vac, 60Hz | Howard Kao |
| BAND EDGE | 25deg. C, 65%RH | 120Vac, 60Hz | Howard Kao |
| CONDCUDETED EMISSION | 25deg. C, 65%RH | 120Vac, 60Hz | Howard Kao |
| RADIATED EMISSION | 25deg. C, 65%RH | 120Vac, 60Hz | Anson Lin |



3.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2 FCC 47 CFR Part 22 ANSI/TIA/EIA-603-C 2004

NOTE: All test items have been performed and recorded as per the above standards.



4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

4.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5MHz for WCDMA mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power 2.15dBi.

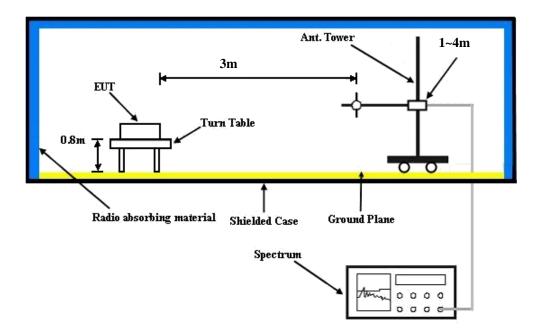
CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).



4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

| Band | WCDMA V | | |
|-----------------|----------------|-------|-------|
| Channel | 4357 4407 4458 | | |
| Frequency (MHz) | 871.4 | 881.4 | 891.6 |
| RMC 12.2K | 20.80 | 20.06 | 20.09 |

ERP POWER (dBm)

| Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | ERP(dBm) | ERP(mW) | Polarization (H/V) |
|---------|--------------------|--------------|--------------------------|----------|---------|-----------------------|
| 4357 | 871.4 | -14.01 | 32.62 | 16.46 | 44.26 | Н |
| 4407 | 881.4 | -12.86 | 32.52 | 17.51 | 56.36 | Н |
| 4458 | 891.6 | -12.25 | 32.65 | 18.25 | 66.83 | Н |
| 4357 | 871.4 | -18.68 | 32.76 | 11.93 | 15.60 | V |
| 4407 | 881.4 | -18.02 | 32.39 | 12.22 | 16.67 | V |
| 4458 | 891.6 | -17.81 | 32.54 | 12.58 | 18.11 | V |

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4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

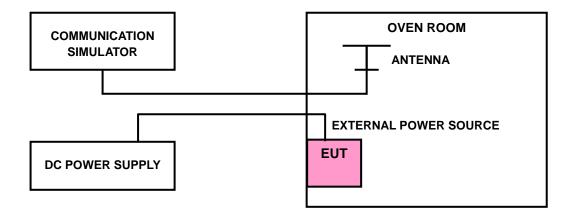
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 TEST SETUP



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4.2.4 TEST RESULTS

FREQUENCY ERROR vs. VOLTAGE

| \\(\O\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | FREQUENCY ERROR (ppm) | LIMIT (ppm) | |
|--|-----------------------|-------------|--|
| VOLTAGE (Volts) | WCDMA | | |
| 3.3 | -0.012 | 1.5 | |
| 2.805 | -0.013 | 1.5 | |
| 3.795 | -0.011 | 1.5 | |

FREQUENCY ERROR vs. TEMPERATURE

| TEMP. (°C) | FREQUENCY ERROR (ppm) | LIMIT (nom) | |
|------------|-----------------------|-------------|--|
| TEMP: (C) | WCDMA | LIMIT (ppm) | |
| 0 | -0.012 | 1.5 | |
| 10 | -0.014 | 1.5 | |
| 20 | -0.010 | 1.5 | |
| 30 | -0.011 | 1.5 | |
| 40 | -0.010 | 1.5 | |

Note:

- 1. The applicant declared that the normal operating temperature of the EUT is from 0°C to 40°C.
- 2. The EUT would shut down automatically at -10 \sim -30 °C and 50 °C.

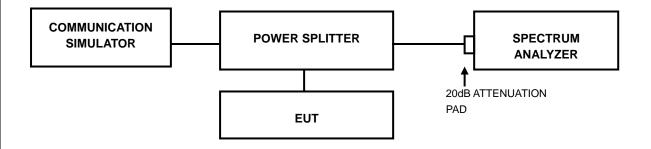


4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

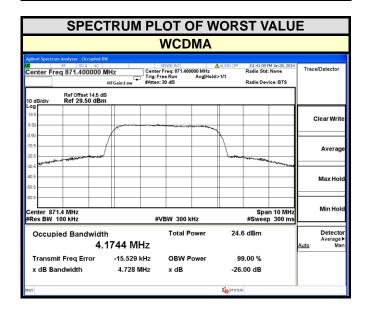
4.3.2 TEST SETUP





4.3.3 TEST RESULTS

| CHANNEL | FREQUENCY 99% OCCUPIED BANDWIDTH (MHz) WCDMA | |
|---------|--|--------|
| 4357 | 871.4 | 4.1744 |
| 4407 | 881.4 | 4.1531 |
| 4458 | 891.6 | 4.1733 |



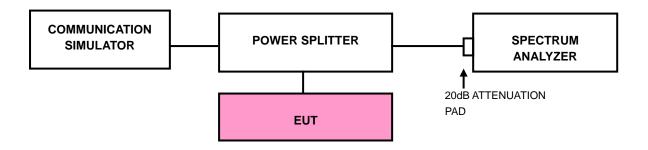


4.4 BAND EDGE MEASUREMENT

4.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.4.2 TEST SETUP

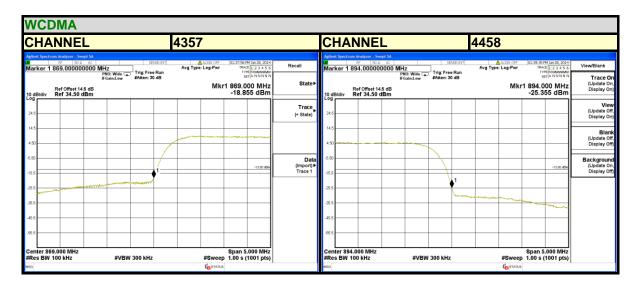


4.4.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA/LTE).
- c. Record the max trace plot into the test report.



4.4.4 TEST RESULTS





4.5 CONDUCTED SPURIOUS EMISSIONS

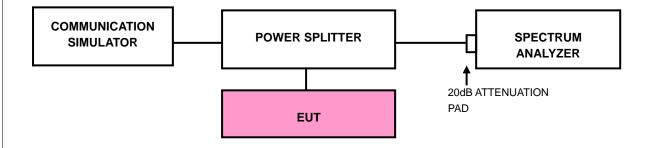
4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$. The emission limit equal to -13dBm.

4.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30 MHz to 9GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

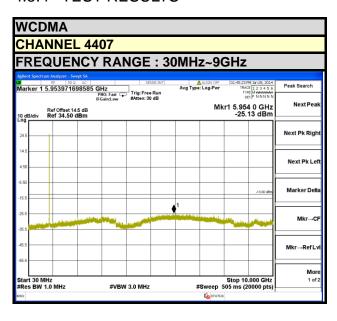
4.5.3 TEST SETUP



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4.5.4 TEST RESULTS





4.6 RADIATED EMISSION MEASUREMENT

4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$. The emission limit equal to -13dBm.

4.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power 2.15dBi.

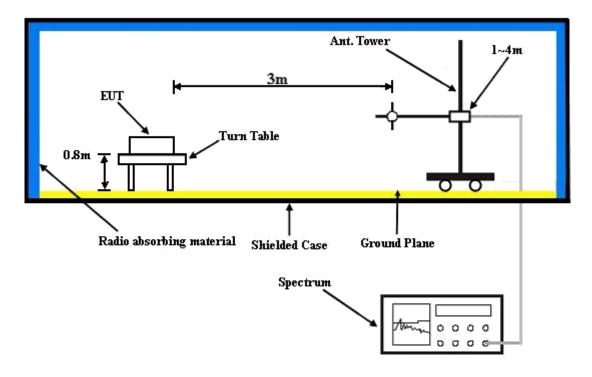
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.6.3 DEVIATION FROM TEST STANDARD

No deviation



4.6.4 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).



4.6.5 TEST RESULTS

| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA. Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
|--------------------|--------------|----------------|-----------------------|--------------------------|------------------------|-----------------------------|--------------------------------|-----------------------|--------|
| 38.37 | -45.68 | -13 | -32.68 | -42.67 | -32.47 | 0.52 | -10.54 | Н | Pass |
| 152.04 | -54.06 | -13 | -41.06 | -44.13 | -51.57 | 1.00 | 0.66 | Н | Pass |
| 260.04 | -53.82 | -13 | -40.82 | -41.63 | -56.88 | 1.31 | 6.52 | Н | Pass |
| 339.2 | -58.59 | -13 | -45.59 | -50.49 | -61.56 | 1.45 | 6.57 | Н | Pass |
| 483.4 | -65.03 | -13 | -52.03 | -61.41 | -67.56 | 1.80 | 6.48 | Н | Pass |
| 682.9 | -62.64 | -13 | -49.64 | -62.55 | -64.69 | 2.10 | 6.30 | Н | Pass |
| 2644.2 | -52.50 | -13 | -39.5 | -40.97 | -56.15 | 3.99 | 9.79 | Н | Pass |
| 4407 | -49.44 | -13 | -36.44 | -41.73 | -52.35 | 5.18 | 10.24 | Н | Pass |
| 38.37 | -38.47 | -13 | -25.47 | -35.26 | -25.26 | 0.52 | -10.54 | V | Pass |
| 157.44 | -54.29 | -13 | -41.29 | -44.40 | -52.56 | 1.00 | 1.42 | V | Pass |
| 232.77 | -52.95 | -13 | -39.95 | -44.7 | -56.57 | 1.25 | 7.02 | V | Pass |
| 374.9 | -61.63 | -13 | -48.63 | -59.75 | -64.59 | 1.60 | 6.71 | V | Pass |
| 521.2 | -70.89 | -13 | -57.89 | -64.63 | -73.29 | 1.90 | 6.45 | V | Pass |
| 729.1 | -67.51 | -13 | -54.51 | -63.33 | -69.1 | 2.30 | 6.04 | V | Pass |
| 2644.2 | -54.00 | -13 | -41 | -42.59 | -57.65 | 3.99 | 9.79 | V | Pass |
| 4407 | -42.55 | -13 | -29.55 | -34.84 | -45.46 | 5.18 | 10.24 | V | Pass |



| 5 PHOTOGRAPHS OF THE TEST CONFIGURATION | | | | | |
|---|--|--|--|--|--|
| Please refer to the attached file (Test Setup Photo). | | | | | |
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6 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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| CHANGES TO THE EUT BY THE LAB |
|---|
| No any modifications were made to the EUT by the lab during the test. |
| END |
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