

Report No.: FC390601

FCC Test Report

APPLICANT : CT Asia

EQUIPMENT : Mobile Phone

: BLU BRAND NAME

MODEL NAME : Studio 5.5

FCC ID : YHLBLUSTUDIO55

: FCC 47 CFR FCC Part 15 Subpart B STANDARD

CLASSIFICATION : Certification

The product was received on Sep. 06, 2013 and testing was completed on Sep. 25, 2013. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown to be compliant with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Louis Wu

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FC390601 | Rev. 01 | Initial issue of report | Oct. 11, 2013 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|-------------------|----------|-----------------------|-----------------|--------|-------------|
| | | | | | Under limit |
| 3.1 | 15.107 | AC Conducted Emission | < 15.107 limits | PASS | 6.70 dB at |
| | | | | | 15.720 MHz |
| | | | | | Under limit |
| 3.2 | 15.109 | Radiated Emission | < 15.109 limits | PASS | 2.26 dB at |
| | | | | | 240.490 MHz |

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1. General Description

1.1. Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

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1.2. Manufacturer

Gionee Communication Equipment Co., Ltd.

21/F, Times Technology Building, No. 7028, Shennan Avenue, Futian District, Shenzhen, China

1.3. Feature of Equipment Under Test

| | Product Feature |
|---------------------------------|--|
| Equipment | Mobile Phone |
| Brand Name | BLU |
| Model Name | Studio 5.5 |
| FCC ID | YHLBLUSTUDIO55 |
| EUT supports Radios application | GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/WLAN 2.4GHz 802.11bgn/Bluetooth v3.0 + EDR /Bluetooth v4.0 |
| HW Version | WBW5310_Mainboard_P2 |
| SW Version | BLU_D610a_V04_GENERIC_T5574 |
| EUT Stage | Identical Prototype |

Remark:

The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4. Product Specification of Equipment Under Test

| Product Specifi | Product Specification subjective to this standard | | | | | | |
|--------------------|--|--|--|--|--|--|--|
| Tx Frequency | GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz | | | | | | |
| Rx Frequency | GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz | | | | | | |
| Antenna Type | WWAN : Fixed Internal Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna | | | | | | |
| Type of Modulation | GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Uplink) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth 4.0 - LE: GFSK Bluetooth 3.0 EDR: GFSK, \(\pi / 4-DQPSK, 8-DPSK \) GPS: BPSK | | | | | | |

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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1.6. Test Site

| Test Site | SPORTON INTERI | SPORTON INTERNATIONAL (SHENZHEN) INC. | | | | | | |
|--------------------|---|---------------------------------------|----------------------|--|--|--|--|--|
| Test Site Location | No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C. | | | | | | | |
| | TEL: +86-755- 3320-2398 | | | | | | | |
| Toot Site No | Sporton | Site No. | FCC Registration No. | | | | | |
| Test Site No. | CO01-SZ | 03CH01-SZ | 831040 | | | | | |

1.7. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

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

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

| | | Test Condition | | | | |
|------|---|----------------|--------------|--------------|--|--|
| Item | EUT Configuration | EMI AC | EMI RE<1G | EMI RE≥1G | | |
| 1. | Charging Mode (EUT with adapter) | | | Note 1 | | |
| 2. | Data application transferred mode (EUT with notebook) | \boxtimes | \boxtimes | \boxtimes | | |

Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

• EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

Remark: For signal above 1GHz, the worst case was test item 2.

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| Test Items | EUT Configure Mode | Function Type |
|------------------------------|--------------------------|---|
| AC Conducted | | Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <fig. 1=""></fig.> |
| Emission | 1/2 | Mode 2: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1 <fig. 2=""></fig.> |
| Radiated | . 1/2 | Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <fig. 1=""></fig.> |
| Emissions < 1GHz | | Mode 2: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1 <fig. 2=""></fig.> |
| Radiated Emissions ≥ 1GHz | 2 | Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1 <fig. 2=""></fig.> |

Remark:

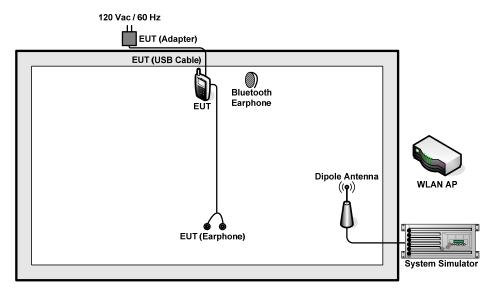
- 1. The worst case of AC is mode 2; only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 2; only the test data of this mode was reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

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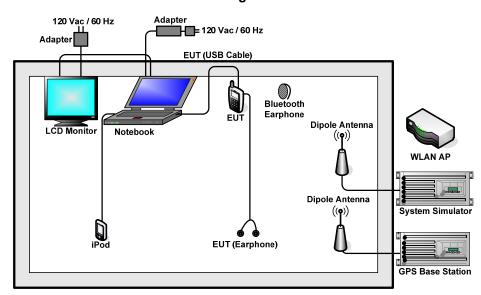


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2.2. Connection Diagram of Test System



<Fig. 1>



<Fig. 2>

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2.3. Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|-----------------------|------------|------------|---------|-----------------|--|
| 1. | GPS Base Station | ADIVIC | MP9000 | N/A | N/A | Unshielded, 1.8 m |
| 2. | GPS Base Station | T&E | GS-50 | N/A | N/A | Unshielded, 1.8 m |
| 3. | System Simulator | Agilent | E5515C | N/A | N/A | Unshielded, 1.8 m |
| 4. | WLAN AP | D-link | DIR-612 | FCC DoC | N/A | Unshielded, 1.8 m |
| 5. | WLAN AP | D-link | DIR-615 | FCC DoC | N/A | Unshielded, 1.8 m |
| 6. | Bluetooth Earphone | Nokia | BH-108 | FCC DoC | N/A | N/A |
| 7. | Notebook | DELL | P08S | FCC DoC | N/A | AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m |
| 8. | Monitor | Dell | 1707FPt | FCC DoC | shielded, 1.2 m | Unshielded, 1.8 m |
| 9. | Monitor | Dell | IN1940MWB | FCC DoC | shielded, 1.2 m | Unshielded, 1.8 m |
| 10. | iPod | Apple | MC525 ZP/A | FCC DoC | Shielded, 1.0 m | N/A |

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2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Execute the program, "Winthrax" under WIN7 installed in notebook for files transfer with EUT via USB cable.
- 2. Turn on GPS function to make the EUT receive continuous signals from GPS station.
- 3. Turn on camera to capture images.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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| Frequency of emission | Conducted | limit (dBuV) |
|-----------------------|------------|--------------|
| (MHz) | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.



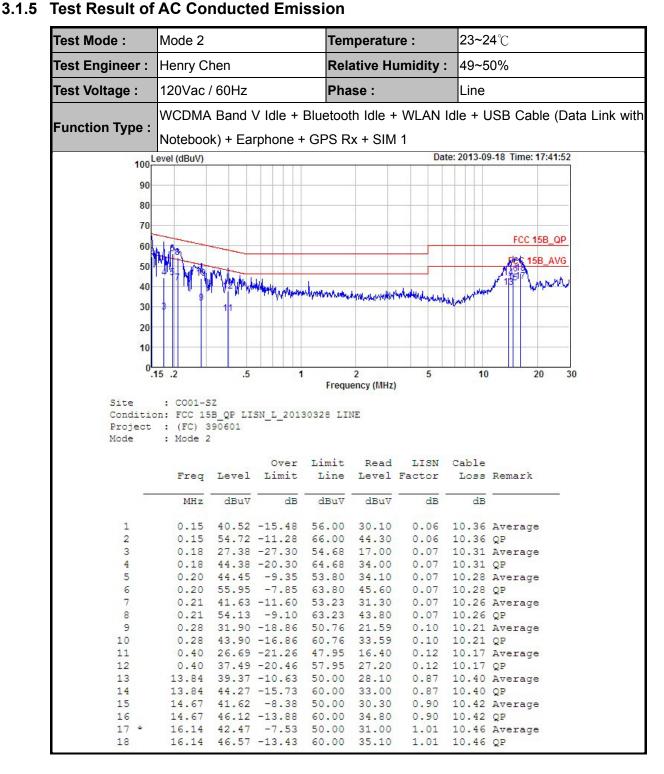
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3.1.4 Test Setup



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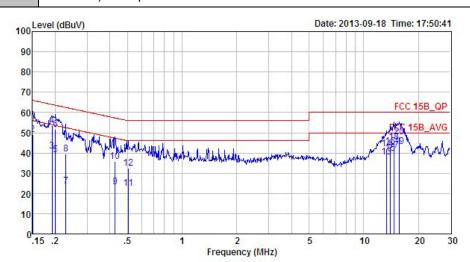


 Test Mode :
 Mode 2
 Temperature :
 23~24°C

 Test Engineer :
 Henry Chen
 Relative Humidity :
 49~50%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

 Function Type :
 WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1



Site : COO1-SZ

Condition: FCC 15B QP LISN N 20130328 NEUTRAL

Project : (FC) 390601 Mode : Mode 2

Over Limit Read LISN Cable Line Level Factor Freq Level Limit Loss Remark MHz dBuV dB dBuV dBuV dB dB 0.15 35.80 -20.20 56.00 25.40 0.04 10.36 Average 0.15 48.90 -17.10 66.00 38.50 0.19 40.92 -13.01 53.93 30.60 0.04 10.36 QP 0.04 10.28 Average 0.19 53.52 -10.41 63.93 43.20 0.04 10.28 QP 0.20 39.11 -14.47 53.58 28.80 5 0.04 10.27 Average 0.20 51.81 -11.77 63.58 41.50 0.04 10.27 QP 0.23 23.58 -28.90 52.48 13.30 0.04 10.24 Average 8 0.23 39.58 -22.90 62.48 29.30 0.04 10.24 QP 0.43 23.20 -24.09 47.29 13.00 0.43 35.70 -21.59 57.29 25.50 0.04 10.16 Average 0.04 10.16 QP 9 10 11 0.50 22.50 -23.50 46.00 12.30 0.04 10.16 Average 0.50 32.30 -23.70 56.00 22.10 13.41 38.16 -11.84 50.00 27.30 12 0.04 10.16 QP 13 0.47 10.39 Average 13.41 42.16 -17.84 60.00 31.30 14 0.47 10.39 QP 14.06 39.89 -10.11 50.00 28.99 14.06 43.19 -16.81 60.00 32.29 14.67 41.22 -8.78 50.00 30.30 1.5 0.49 10.41 Average 0.49 10.41 QP 16 0.50 10.42 Average 17 14.67 45.52 -14.48 60.00 34.60 18 0.50 10.42 QP 19 * 15.72 43.30 -6.70 50.00 32.30 0.56 10.44 Average 15.72 48.00 -12.00 60.00 37.00 0.56 10.44 QP 20

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) | | | |
|--------------------|--------------------------------------|----------------------------------|--|--|--|
| 30 – 88 | 100 | 3 | | | |
| 88 – 216 | 150 | 3 | | | |
| 216 - 960 | 200 | 3 | | | |
| Above 960 | 500 | 3 | | | |

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3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. 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 turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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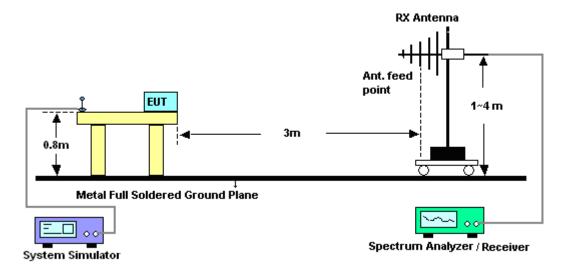
Report No.: FC390601



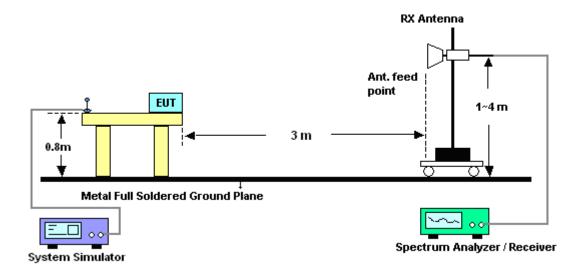
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission

| Test Mode : | Mode 2 | | Т | empei | rature | : | 24~ | 25°C | | | |
|--------------------------------------|--|--------------------------|----------------|---------------------|--------------|--------------------|-------|---------|----------|---------|---------|
| Test Engineer : | | | | Relative Humidity : | | 49~52% | | | | | |
| | | | | Polarization : | | | | | | | |
| Test Distance : | 3m | | | | | | | izontal | | | |
| Function Type : | WCDMA E | Band V Idle + | Bluet | ooth Ic | lle + \ | NLAN I | tle + | USB C | able (D | ata Lir | ık with |
| i unotion Typo i | Notebook) + Earphone + GPS Rx + SIM 1 | | | | | | | | | | |
| 117 Leve | 117 Level (dBuV/m) Date: 2013-09-17 | | | | | | | | | | |
| 110 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 90 | | | | | | | | | | | |
| | | | | | | | | | FCC C | LASS-B | |
| 70 | | | | | | | | | | -6dB | |
| | | | | | | | | F | CC CLASS | B (AVG) | |
| 50 | | | | | | | | | | -6dB | |
| 1 | 5 | | | | | | | | | | |
| 30 | Ĭ | | | | | | | | | | |
| | | | | | | | | | | | |
| 40 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 030 | 1000. | 3000. | 5000. | Frequenc | 7000. | | 0000. | 1 | 1000. | 1300 | 0 |
| Site Condition Project Mode | : 03CH01 : FCC CL : (FC) 39(: Mode 2 | ASS-B 3m LF_A | NT_1211(| | | | | | | | |
| | Freq Level | Over Limit Limit Line | ReadA Level | | | Preamp / Factor | A/Pos | | emark | | |
| | MHz dBuV/m | dB dBuV/m | dBuV | dB/m | dB | dB | cm | deg | | | |
| 1 2 P | 41.64 27.23 240.49 43.74 | | 47.20 | 9.70 11.90 | 0.87 1.82 | 30.54 30.20 | 200 | P | | | |
| 3 | 338.46 31.58 | -14.42 46.00 | 44.73 | 14.60 | 2.12 | 29.87 | | P | eak | | |
| 5 | | -11.10 46.00 | 40.23 | 17.20 20.46 | 2.48 3.15 | 28.94 | | P | eak | | |
| 6 | 960.23 39.03 | -14.97 54.00 | 42.52 | 21.80 | 3.43 | 28.72 | | P | eak | | |

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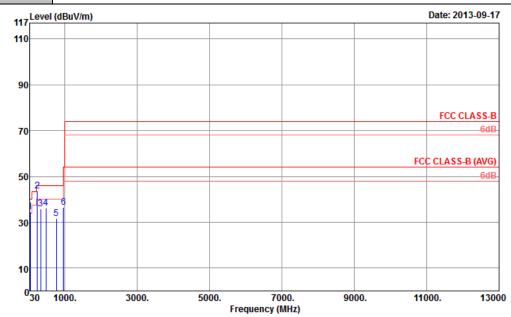


Test Mode: Mode 2 Temperature: 24~25°C

Test Engineer: Robin Luo Relative Humidity: 49~52%

Test Distance: 3m Polarization: Vertical

Function Type: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1



Site : 03CH01-SZ

Condition : FCC CLASS-B 3m LF_ANT_121103 VERTICAL

Project : (FC) 390601 Mode : Mode 2

| | Freq | Level | | Limit Line | | | | | | T/Pos | Remark |
|-----|--------|--------|--------|---------------|-------|-------|------|-------|-----|-------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 ! | 42.61 | 34.40 | -5.60 | 40.00 | 54.37 | 9.70 | 0.87 | 30.54 | | | Peak |
| 2 P | 240.49 | 43.63 | -2.37 | 46.00 | 60.11 | 11.90 | 1.82 | 30.20 | 100 | 360 | Peak |
| 3 | 338.46 | 35.81 | -10.19 | 46.00 | 48.96 | 14.60 | 2.12 | 29.87 | | | Peak |
| 4 | 480.08 | 36.17 | -9.83 | 46.00 | 45.89 | 17.20 | 2.48 | 29.40 | | | Peak |
| 5 | 764.29 | 31.58 | -14.42 | 46.00 | 37.13 | 20.34 | 3.09 | 28.98 | | | Peak |
| 6 | 960.23 | 36.42 | -17.58 | 54.00 | 39.91 | 21.80 | 3.43 | 28.72 | | | Peak |

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4. List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|-------------------------|------------------|---------------------|-------------------------|---------------------|---------------------------------|---------------|-------------------------|
| AC LISN | ETS-LINDGREN | 3816/2SH | 00103912 | 0.1MHz~108MHz | Feb. 28, 2011 | Sep. 11, 2013~ Sep. 18, 2013 | Feb. 27, 2014 | Conduction (CO01-SZ) |
| AC LISN (for auxiliary equipment) | ETS-LINDGREN | 3816/2SH | 00103892 | 0.1MHz~108MHz | Feb. 28, 2011 | Sep. 11, 2013~ Sep. 18, 2013 | Feb. 27, 2014 | Conduction (CO01-SZ) |
| ESCIO TEST Receiver | R&S | 1142.8007.0 3 | 100724 | 9K-3GHz | Mar. 08, 2011 | Sep. 11, 2013~ Sep. 18, 2013 | Mar. 07, 2014 | Conduction (CO01-SZ) |
| AC Power Source | Chroma | 61602 | 616020000 891N/A | N/A | Oct. 12, 2011 | Sep. 11, 2013~ Sep. 18, 2013 | Oct. 11, 2013 | Conduction (CO01-SZ) |
| Spectrum Analyzer | Agilent Technologies | N9038A | MY52260 185 | 20Hz~26.5GHz | Apr. 04, 2013 | Sep. 17, 2013~ Sep. 25, 2013 | Apr. 03, 2014 | Radiation (03CH01-SZ) |
| Double Ridge Horn Antenna | ETS Lindgren | 3117 | 00119436 | 1GHz~18GHz | Oct. 12, 2012 | Sep. 17, 2013~ Sep. 25, 2013 | Oct. 11, 2013 | Radiation (03CH01-SZ) |
| Bilog Antenna | SCHAFFNER | CBL6112B | 2614 | 30Mhz~2Ghz | Nov. 03, 2012 | Sep. 17, 2013~ Sep. 25, 2013 | Nov. 02, 2013 | Radiation (03CH01-SZ) |
| Amplifier | ADVANTEST | BB525C | E9007003 | 9K-3000MHz GAIN 30db | Mar. 28, 2013 | Sep. 17, 2013~ Sep. 25, 2013 | Mar. 27, 2014 | Radiation (03CH01-SZ) |
| Amplifier | Yiai | AV3860B | 04030 | 2GHz~26.5GHz | Mar. 28, 2013 | Sep. 17, 2013~ Sep. 25, 2013 | Mar. 27, 2014 | Radiation (03CH01-SZ) |
| Turn Table | EM Electronic | EM 1000 | N/A | 0 ~ 360 degree | N/A | Sep. 17, 2013~ Sep. 25, 2013 | N/A | Radiation (03CH01-SZ) |
| Antenna Mast | EM electronic | EM 1000 | N/A | 1 m - 4 m | N/A | Sep. 17, 2013~ Sep. 25, 2013 | N/A | Radiation (03CH01-SZ) |

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FCC Test Report

5. Uncertainty of Evaluation

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

| Measuring Uncertainty for a Level of | 0.00 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y)) | 2.26 |
| | |

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

| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.54 |
|---|------|
| Confidence of 35% (0 = 200(y)) | |

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

| | 4 |
|--------------------------------------|------|
| Measuring Uncertainty for a Level of | 4.72 |
| Confidence of 95% (U = 2Uc(y)) | 4.72 |

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