RF TEST REPORT



Report No.: 14021149-FCC-R1 Supersede Report No.: N/A

| Applicant | Beneworld International (HK) Co., Limited | | |
|---|---|---------------------------|--|
| Product Name | 7inch Tablet PC | | |
| Main Model | BW9 | | |
| Test Standard | FCC Part 22(I | H) & FCC Part 24(E): 2014 | |
| Test Date | November 14 | to November 26, 2014 | |
| Issue Date | November 26 | , 2014 | |
| Test Result | Pass Fail | | |
| Equipment complied with the specification | | | |
| Equipment did not comply with the specification | | | |
| Deon . | Dai' | Alex. Lin | |
| Deon Dai Test Engineer | | Alex Liu Checked By | |
| This test report may be reproduced in full only | | | |
| Test result presented in this test report is applicable to the tested sample only | | | |

Issued by:

SIEMIC (Nanjing-China) Laboratories

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Laboratories Introduction

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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

| nooreditations for commenty resossitions | | |
|--|------------------------------------|--|
| Country/Region | Scope | |
| USA | EMC, RF/Wireless, SAR, Telecom | |
| Canada | EMC, RF/Wireless, SAR, Telecom | |
| Taiwan | EMC, RF, Telecom, SAR, Safety | |
| Hong Kong | RF/Wireless, SAR, Telecom | |
| Australia | EMC, RF, Telecom, SAR, Safety | |
| Korea | EMI, EMS, RF, SAR, Telecom, Safety | |
| Japan | EMI, RF/Wireless, SAR, Telecom | |
| Singapore | EMC, RF, SAR, Telecom | |
| Europe | EMC, RF, SAR, Telecom, Safety | |



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1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|-----------------|----------------|-------------|-------------------|
| 14021149-FCC-R1 | NONE | Original | November 26, 2014 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. <u>Customer information</u>

| Applicant Name | Beneworld International (HK) Co., Limited | |
|------------------|--|--|
| Applicant Add | Unit 04, 7/F, Bright Way Tower, No. 33 Mong Kok Road, Kowloon, Hong Kong | |
| Manufacturer | Shenzhen Beneworld Technology Co. Ltd. | |
| Manufacturer Add | Building 3, Huangtian Industrial Park, Xixiang, Baoan District, Shenzhen, Guangdong, China | |

3. Test site information

| Lab performing tests | SIEMIC (Nanjing-China) Laboratories |
|---|-------------------------------------|
| Lab Address 2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China | |
| FCC Test Site No. | 986914 |
| IC Test Site No. | 4842B-1 |
| Test Software | LabView of SIEMIC version 1.0 |



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4. Equipment under Test (EUT) Information

| Description of EUT: | 7inch Tablet PC |
|---------------------|-----------------|
| | |

Main Model: BW9

Serial Model: BW7D9, BW7D19, BW7D29, BW7D61, BW7D62, BW7D66, BW7D68, BW7D69, BW7D770, BW7D70, BW7D61, BW7D62, BW7D66, BW7D68, BW7D69, BW7D69,

BW7D70, BW7D71

Date EUT received: November 03, 2014

Test Date(s): November 14 to November 26, 2014

Maximum Conducted AV Power to

Maximum Radiated ERP/EIRP

Type of Modulation:

RF Operating Frequency (ies):

Antenna

GSM850: 30.75 dBm PCS1900: 28.60 dBm

UMTS-FDD Band II: 22.44 dBm

GSM850: 27.71 dBm / ERP PCS1900: 24.67 dBm / EIRP

UMTS-FDD Band II: 21.11 dBm / EIRP

GSM850: -0.46 dBi PCS1900:1.19 dBi

Antenna Gain: UMTS-FDD Band II: 1.3 dBi

Bluetooth/WIFI&BLE: 1.56 dBi

GSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM

Bluetooth: GFSK&π/4DQPSK&8DPSK

BLE: GFSK

GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz

UMTS-FDD Band II TX :1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz

802.11b/g/n(20M): 2412-2462 MHz(TX/RX) 802.11n(40M): 2422-2452 MHz (TX/RX) Bluetooth&BLE: 2402-2480 MHz(TX/RX)

299CH (PCS1900) and 124CH (GSM850)

UMTS-FDD Band II : 277CH 802.11b/g/n(20M): 11CH

Number of Channels: 802.11n(40M): 7CH
Bluetooth: 79CH

BLE: 40CH

Port: Earphone Port, USB Port

Adapter:

Model: XHY050200UUCH

Input: AC 100-240V 50/60Hz 0.5A MAX

Input Power: Output: DC 5V 2.0A

BATTERY: 3.7V 5200mAh



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| Trade Name : | N | / | ŀ | ١ |
|--------------|----|-----|---|---|
| made mame. | IN | ./. | ı | ۲ |

FCC ID: 2AANC-BENEWORLD-BW9

Note: the difference between these models please refer to Annex E. DECLARATION OF SIMILARITY.



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5. Test Summary

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

| FCC Rules | Description of Test | Result |
|--|---|------------|
| § 1.1307, § 2.1093 | RF Exposure (SAR) | Compliance |
| § 2.1046;§ 22.913 (a); § 24.232 (c) | RF Output Power | Compliance |
| § 2.1047 | Modulation Characteristics | Compliance |
| § 2.1049; § 22.905; § 22.917; § 24.238 | 99% & -26 dB Occupied Bandwidth | Compliance |
| § 2.1051,§ 22.917 (a); § 24.238 (a) | Spurious Emissions at Antenna Terminal | Compliance |
| § 2.1053§ 22.917 (a); § 24.238 (a) | Field Strength of Spurious Radiation | Compliance |
| § 22.917 (a); § 24.238 (a) | Out of band emission, Band Edge | Compliance |
| § 2.1055; § 22.355; § 24.235 | Frequency stability vs. temperature Frequency stability vs. voltage | Compliance |

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different Measurement Uncertainty

| Test Item | Description | Uncertainty |
|-----------------------------|---|-------------|
| Radiated Spurious Emissions | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | 3.952dB |



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6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation; Please refer to SAR Report: 14021149-FCC-H.



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6.2 RF Output Power

| Temperature | 20°C |
|----------------------|-------------------|
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
| Test date : | November 26, 2014 |
| Tested By: | Deon Dai |

| Requirement(s): | | | ı | | | | | |
|-----------------|------|---|---|--|--|--|--|--|
| Spec | Item | Requirement | Applicable | | | | | |
| §22.913 (a) | a) | ERP:38.45dBm | | | | | | |
| §24.232 (c) | b) | b) EIRP:33dBm | | | | | | |
| Test Setup | | Base Station Power Meter | | | | | | |
| Test Procedure | | The transmitter output port was connected to base station. Set EUT at maximum power through base station. Select lowest, middle, and highest channels for each band and di mode. For ERP/EIRP: The transmitter was placed on a wooden turntable, and it was tran non-radiating load which was also placed on the turntable. The measurement antenna was placed at a distance of 3 meters f During the tests, the antenna height and polarization as well as EU were varied in order to identify the maximum level of emissions from the test was performed by placing the EUT on 3-orthogonal axis. The frequency range up to tenth harmonic of the fundamental frequency range up to tenth harmonic of the fundamental frequency to the substitution antenna by a non-radiating cable. The levels of the spurious emissions were measured by the substitution Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolution attenuation limit in dB = 43 + 10 Log10 (power out in Watts/0.001) in the absolution in the substitution in the substitution in the substitution attenuation limit in dB = 43 + 10 Log10 (power out in Watts/0.001) | rom the EUT. JT azimuth om the EUT. Juency was I generator was he absolute n. solute level | | | | | |
| Remark | | | | | | | | |
| Result | Pas | ss Fail | | | | | | |
| Test Data | Yes | N/A | | | | | | |
| Test Plot | Yes | s (See below) N/A | | | | | | |



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Conducted Power

GSM Mode:

| GOW WIGGE. | Solvi Mode. | | | | | | | | |
|---|-------------|-------|-------|------------------------------|--------|---------|--------|------------------------------|--|
| Burst Average Power (dBm); | | | | | | | | | |
| Band | | GS | SM850 | | | GSM1900 | | | |
| Channel | 128 | 190 | 251 | Tune up Power tolerant | 512 | 661 | 810 | Tune up Power tolerant | |
| Frequency (MHz) | 824.2 | 836.6 | 848.8 | 1 | 1850.2 | 1880 | 1909.8 | 1 | |
| GSM Voice (1 uplink),GMSK | 30.53 | 30.75 | 30.73 | 30±1 | 28.60 | 28.58 | 28.56 | 28±1 | |
| GPRS Multi-Slot Class 8 (1 uplink),GMSK | 30.48 | 30.71 | 30.65 | 30±1 | 28.59 | 28.58 | 28.55 | 28±1 | |
| GPRS Multi-Slot Class 10 (2 uplink),GMSK | 29.76 | 29.88 | 30.12 | 30±1 | 27.77 | 27.79 | 27.80 | 27±1 | |
| GPRS Multi-Slot Class 12 (4 uplink),GMSK | 28.25 | 28.57 | 28.80 | 28±1 | 25.80 | 25.93 | 25.92 | 25±1 | |
| Damada. | | | | | | | | | |

Remark:

GPRS, CS1 coding scheme.

Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link

Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS mode.



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UMTS Mode:

UMTS-FDD Band II

| Band/ Time Slot configuration | Channel | Frequency | Average power (dBm) |
|-------------------------------|---------|-----------|---------------------|
| DMO | 9262 | 1852.4 | 22.26 |
| RMC 12.2kbps | 9400 | 1880 | 22.41 |
| 12.28005 | 9538 | 1907.6 | 22.34 |
| HODDA | 9262 | 1852.4 | 22.25 |
| HSDPA Subtest1 | 9400 | 1880 | 22.40 |
| Sublest | 9538 | 1907.6 | 22.33 |
| HODDA | 9262 | 1852.4 | 22.27 |
| HSDPA | 9400 | 1880 | 22.42 |
| Subtest2 | 9538 | 1907.6 | 22.32 |
| HODDA | 9262 | 1852.4 | 22.23 |
| HSDPA | 9400 | 1880 | 22.38 |
| Subtest3 | 9538 | 1907.6 | 22.31 |
| HODDA | 9262 | 1852.4 | 22.24 |
| HSDPA Subtest4 | 9400 | 1880 | 22.41 |
| Sublest4 | 9538 | 1907.6 | 22.30 |
| LICUDA | 9262 | 1852.4 | 22.28 |
| HSUPA Subtest1 | 9400 | 1880 | 22.43 |
| Sublest | 9538 | 1907.6 | 22.32 |
| LICUDA | 9262 | 1852.4 | 22.27 |
| HSUPA Subtost? | 9400 | 1880 | 22.42 |
| Subtest2 | 9538 | 1907.6 | 22.28 |
| LICUDA | 9262 | 1852.4 | 22.29 |
| HSUPA Subtost? | 9400 | 1880 | 22.44 |
| Subtest3 | 9538 | 1907.6 | 22.27 |
| LICLIDA | 9262 | 1852.4 | 22.20 |
| HSUPA Subtest4 | 9400 | 1880 | 22.42 |
| 3ubiesi4 | 9538 | 1907.6 | 22.31 |
| LICLIDA | 9262 | 1852.4 | 22.25 |
| HSUPA Subtest5 | 9400 | 1880 | 22.40 |
| อนมเฮรเอ | 9538 | 1907.6 | 22.35 |



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ERP & EIRP ERP for Cellular Band (Part 22H)

| Frequency (MHz) | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|--------------------|-------------------------|-------------------------|-------------------------------------|--------------------|-------------------------|----------------|
| 824.20 | 22.32 | V | 6.2 | 1.67 | 26.85 | 38.45 |
| 824.20 | 20.83 | Н | 6.2 | 1.67 | 25.36 | 38.45 |
| 836.60 | 23.14 | V | 6.2 | 1.67 | 27.67 | 38.45 |
| 836.60 | 21.18 | Н | 6.2 | 1.67 | 25.71 | 38.45 |
| 848.80 | 23.08 | V | 6.3 | 1.67 | 27.71 | 38.45 |
| 848.80 | 20.99 | Н | 6.3 | 1.67 | 25.62 | 38.45 |

EIRP for PCS Band (Part 24E)

| Frequency (MHz) | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|--------------------|-------------------------|-------------------------|-------------------------------------|--------------------|-------------------------|----------------|
| 1850.20 | 17.65 | V | 8.6 | 2.66 | 23.59 | 33 |
| 1850.20 | 15.25 | Н | 8.6 | 2.66 | 21.19 | 33 |
| 1880.00 | 18.41 | V | 8.6 | 2.34 | 24.67 | 33 |
| 1880.00 | 15.17 | Н | 8.6 | 2.34 | 21.43 | 33 |
| 1909.80 | 16.99 | V | 8.6 | 2.17 | 23.42 | 33 |
| 1909.80 | 15.18 | Н | 8.6 | 2.17 | 21.61 | 33 |

EIRP for UMTS-FDD Band II (Part 24E)

| (· · · ·) | | | | | | |
|--------------------|-------------------------|-------------------------|-------------------------------------|--------------------|-------------------------|----------------|
| Frequency (MHz) | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
| 1852.40 | 14.52 | V | 8.6 | 2.66 | 20.46 | 38.45 |
| 1852.40 | 13.94 | Н | 8.6 | 2.66 | 19.88 | 38.45 |
| 1880.00 | 14.25 | V | 8.6 | 2.34 | 20.51 | 38.45 |
| 1880.00 | 13.23 | Н | 8.6 | 2.34 | 19.49 | 38.45 |
| 1907.60 | 14.68 | V | 8.6 | 2.17 | 21.11 | 38.45 |
| 1907.60 | 13.09 | Н | 8.6 | 2.17 | 19.52 | 38.45 |



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6.3 Modulation Characteristic

| According to FCC § 2.1047(d), F | 'art 22H & 24E there | e is no specific re | equirement for dig | gital modulation, t | herefore |
|----------------------------------|----------------------|---------------------|--------------------|---------------------|----------|
| modulation characteristic is not | oresented. | | | | |

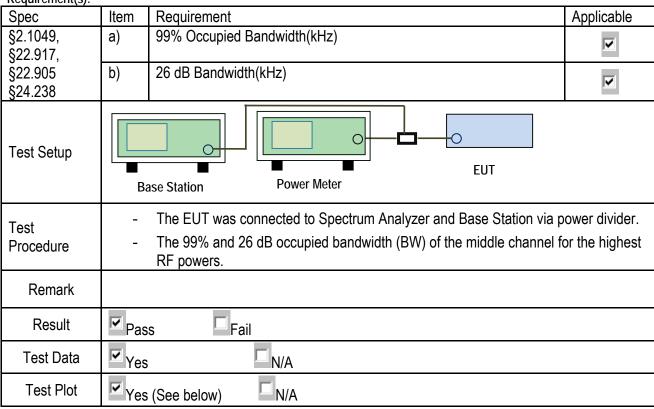


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6.4 Occupied Bandwidth

| Temperature | 20°C |
|----------------------|-------------------|
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
| Test date : | November 26, 2014 |
| Tested By: | Deon Dai |

Requirement(s):





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Cellular Band (Part 22H) result

| - 1 | | | | |
|---------|-----------|------------------------|-----------------|-------|
| Channel | Frequency | 99% Occupied Bandwidth | 26 dB Bandwidth | |
| | | (MHz) | (kHz) | (kHz) |
| | 128 | 824.2 | 242.0 | 322.0 |
| | 190 | 836.6 | 246.0 | 320.0 |
| | 251 | 848.8 | 244.0 | 320.0 |

PCS Band (Part 24E) result

| Channel | Frequency (MHz) | 99% Occupied Bandwidth (kHz) | 26 dB Bandwidth (kHz) |
|---------|--------------------|---------------------------------|--------------------------|
| 512 | 1850.2 | 246.0 | 316.0 |
| 661 | 1880.0 | 245.0 | 322.0 |
| 810 | 1909.8 | 244.0 | 320.0 |

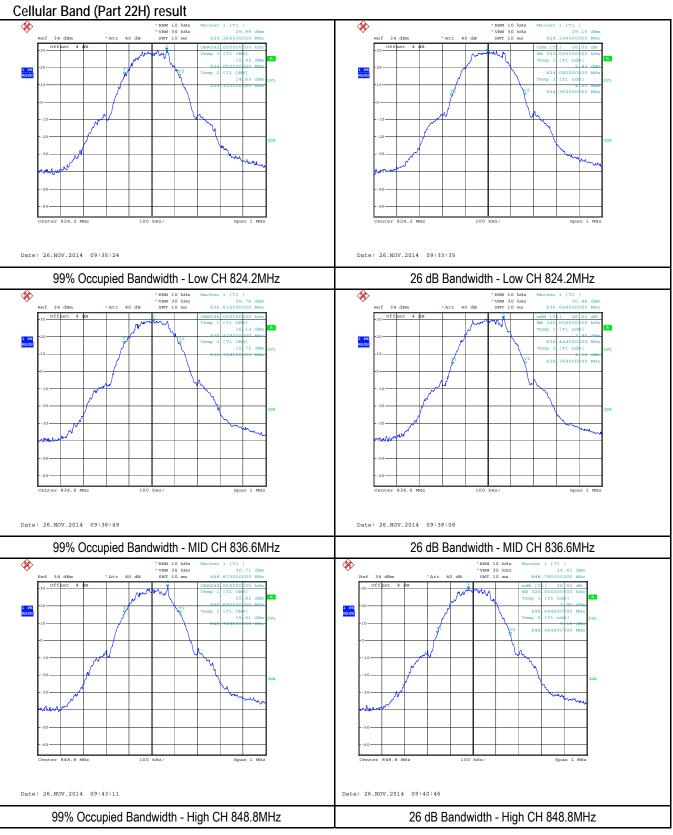
UMTS-FDD Band II (Part 24E)

| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|--------------------|---------------------------------|--------------------------|
| 9262 | 1852.4 | 4.152 | 4.680 |
| 9400 | 1880.0 | 4.152 | 4.680 |
| 9538 | 1907.6 | 4.164 | 4.704 |



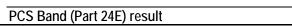
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Test Plots Cellular Band (Part 22H) resu

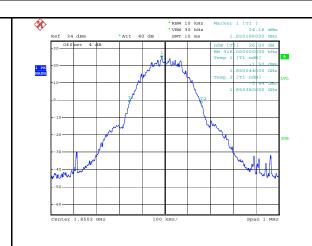




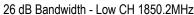
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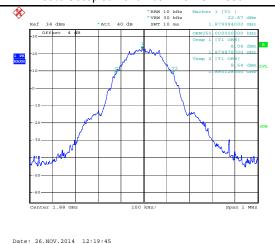


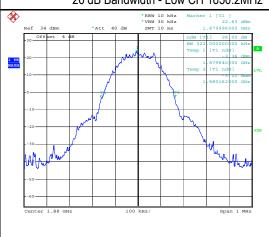




99% Occupied Bandwidth - Low CH 1850.2MHz





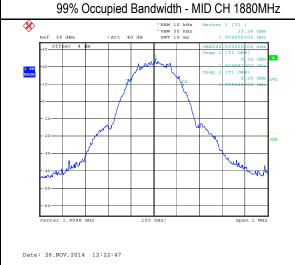


Date: 26.NOV.2014 12:17:18

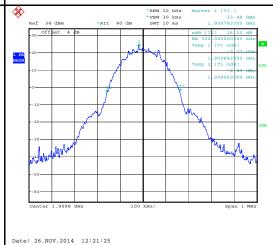
Date: 26.NOV.2014 12:20:31

26 dB Bandwidth - MID CH 1880MHz

26 dB Bandwidth - High CH 1909.8MHz



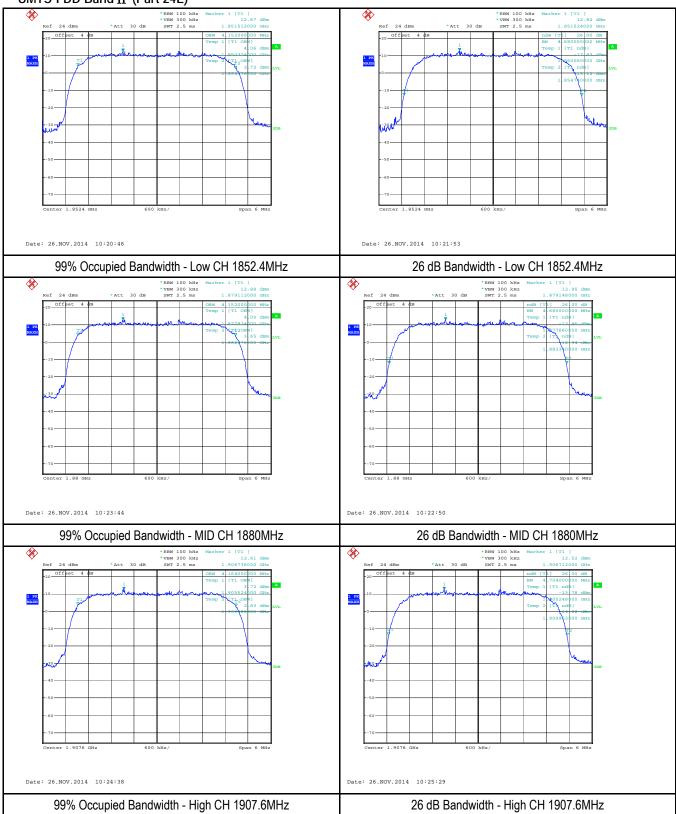
99% Occupied Bandwidth - High CH 1909.8MHz





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UMTS-FDD Band II (Part 24E)





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6.5 Spurious Emissions at Antenna Terminals

| Temperature | 20°C |
|----------------------|-------------------|
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
| Test date : | November 14, 2014 |
| Tested By: | Deon Dai |

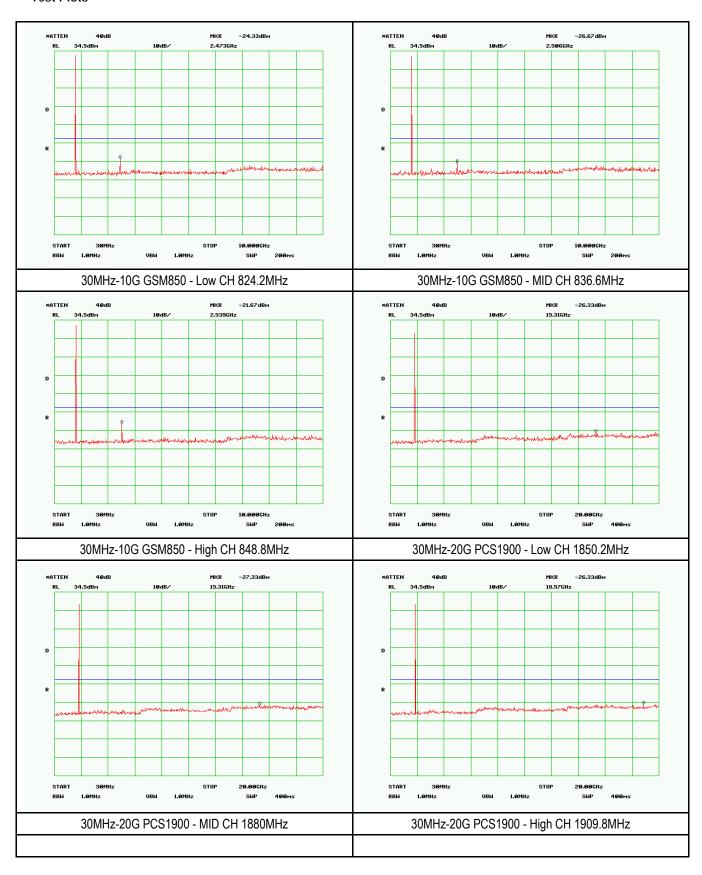
Requirement(s):

| Requirement(s): | | | |
|---------------------------------------|------|--|------------|
| Spec | Item | Requirement | Applicable |
| §2.1051, §22.917(a)& §24.238(a) | a) | The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB | V |
| Test Setup | | Base Station Power Meter EUT | |
| Test Procedure | - | The EUT was connected to Spectrum Analyzer and Base Station via The Band Edges of low and high channels for the highest RF power measured. Setting RBW as roughly BW/100. | • |
| Remark | | | |
| Result | Pas | ss Fail | |
| Test Data | Yes | N/A | |
| Test Plot | Yes | s (See below) N/A | |



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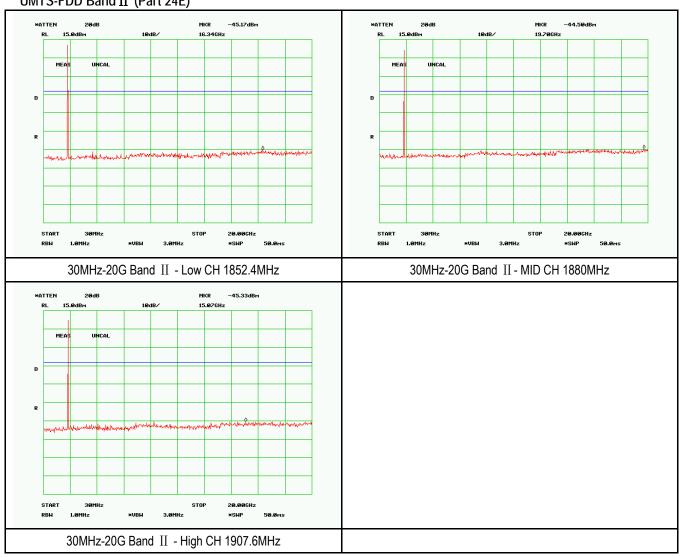
Test Plots





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UMTS-FDD Band II (Part 24E)





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6.6 Spurious Radiated Emissions

| Temperature | 20°C |
|----------------------|-------------------|
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
| Test date : | November 14, 2014 |
| Tested By: | Deon Dai |

| Requirement(s): | | | | |
|----------------------------------|---|--|------------|--|
| Spec | Item | Requirement | Applicable | |
| §2.1053, §22.917 & §24.238 | a) | The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic. | > | |
| Test setup | | Ant. Tower Support Units Turn Table Ground Plane Test Receiver | | |
| Test Procedure | Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. An emission was scan up to 10th harmonic of the operating frequency. Sample Calculation: EUT Field Strength = Raw Amplitude (dBµV/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used) | | | |
| Remark | | | | |
| Result | Pass | Fail | | |
| Test Data | Yes | □ _{N/A} | | |
| Test Plot | Yes | (See below) N/A | | |



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|-----------------|-----------------|
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Cellular Band (Part 22H) result

Low channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-------------------------------|-----------------------|----------------|-------------------|---------------------------------------|-----------------------|-------------------|-------------------------------|----------------|----------------|
| 1648.4 | -22.29 | 159 | 100 | V | 6.6 | 2.2 | 0 | -17.89 | -13 | -4.89 |
| 1648.4 | -26.23 | 269 | 200 | Н | 6.6 | 2.2 | 0 | -21.83 | -13 | -8.83 |
| 638.32 | -43.4 | 14 | 102 | V | 6.1 | 1.67 | 0 | -38.97 | -13 | -25.97 |
| 564.47 | -46.29 | 199 | 200 | Н | 6.5 | 1.5 | 0 | -41.29 | -13 | -28.29 |

Middle channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-------------------------------|-----------------------|----------------|-------------------|---------------------------------------|-----------------------|-------------------|-------------------------------|----------------|----------------|
| 1673.2 | -24.29 | 198 | 110 | V | 6.3 | 2.2 | 0 | -20.19 | -13 | -7.19 |
| 1673.2 | -25.28 | 250 | 198 | Н | 6.3 | 2.2 | 0 | -21.18 | -13 | -8.18 |
| 644.25 | -42.21 | 360 | 100 | V | 6.1 | 1.67 | 0 | -37.78 | -13 | -24.78 |
| 561.22 | -43.13 | 135 | 200 | Н | 6.3 | 1.5 | 0 | -38.33 | -13 | -25.33 |

High channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-------------------------------|-----------------------|----------------|-------------------|---------------------------------------|-----------------------|-------------------|-------------------------------|----------------|----------------|
| 1697.6 | -25.78 | 33 | 105 | V | 6.3 | 2.3 | 0 | -21.78 | -13 | -8.78 |
| 1697.6 | -24.11 | 265 | 199 | Н | 6.3 | 2.3 | 0 | -20.11 | -13 | -7.11 |
| 567.35 | -41.05 | 200 | 100 | V | 6.3 | 1.5 | 0 | -36.25 | -13 | -23.25 |
| 573.45 | -45.05 | 211 | 190 | Н | 6.1 | 1.5 | 0 | -40.45 | -13 | -27.45 |



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PCS Band (Part24E) result

Low channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-------------------------------|-----------------------|----------------|-------------------|---------------------------------------|-----------------------|-------------------|-------------------------------|----------------|----------------|
| 3700.4 | -23.35 | 101 | 100 | V | 5.6 | 3.1 | 0 | -20.85 | -13 | -7.85 |
| 3700.4 | -24.68 | 299 | 200 | Н | 5.6 | 3.1 | 0 | -22.18 | -13 | -9.18 |
| 567.55 | -41.24 | 0 | 100 | V | 6.3 | 1.5 | 0 | -36.44 | -13 | -23.44 |
| 573.69 | -43.38 | 244 | 198 | Н | 6.1 | 1.34 | 0 | -38.62 | -13 | -25.62 |

Middle channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-------------------------------|-----------------------|----------------|-------------------|---------------------------------------|-----------------------|-------------------|-------------------------------|----------------|----------------|
| 3760 | -20.08 | 99 | 105 | V | 5.4 | 3.2 | 0 | -17.88 | -13 | -4.88 |
| 3760 | -23.04 | 233 | 200 | Н | 5.4 | 3.2 | 0 | -20.84 | -13 | -7.84 |
| 638.52 | -39.11 | 198 | 105 | V | 6.1 | 1.67 | 0 | -34.68 | -13 | -21.68 |
| 565.24 | -39.02 | 16 | 200 | Н | 6.3 | 1.5 | 0 | -34.22 | -13 | -21.22 |

High channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-------------------------------|-----------------------|----------------|-------------------|---------------------------------------|-----------------------|----------------|-------------------------------|----------------|----------------|
| 3819.6 | -19.91 | 216 | 101 | V | 5.4 | 3.3 | 0 | -17.81 | -13 | -4.81 |
| 3819.6 | -22.17 | 219 | 200 | Н | 5.4 | 3.3 | 0 | -20.07 | -13 | -7.07 |
| 567.35 | -37.15 | 139 | 100 | V | 6.3 | 1.5 | 0 | -32.35 | -13 | -19.35 |
| 552.59 | -39.98 | 288 | 200 | Н | 6.3 | 1.5 | 0 | -35.18 | -13 | -22.18 |



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|-----------------|-----------------|
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UMTS-FDD Band II (Part 24E)

Low channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-------------------------------|-----------------------|----------------|-------------------|---------------------------------------|-----------------------|-------------------|-------------------------------|----------------|----------------|
| 3704.8 | -24.59 | 199 | 102 | V | 6.6 | 2.2 | 0 | -20.19 | -13 | -7.19 |
| 3704.8 | -28.53 | 211 | 200 | Н | 6.6 | 2.2 | 0 | -24.13 | -13 | -11.13 |
| 641.18 | -42.16 | 222 | 100 | V | 6.1 | 1.67 | 0 | -37.73 | -13 | -24.73 |
| 567.34 | -45.05 | 198 | 200 | Н | 6.3 | 1.5 | 0 | -40.25 | -13 | -27.25 |

Middle channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-------------------------------|-----------------------|----------------|-------------------|---------------------------------------|-----------------------|-------------------|-------------------------------|----------------|----------------|
| 3760 | -25.79 | 144 | 101 | V | 6.3 | 2.2 | 0 | -21.69 | -13 | -8.69 |
| 3760 | -26.62 | 360 | 200 | Н | 6.3 | 2.2 | 0 | -22.52 | -13 | -9.52 |
| 564.2 | -41.19 | 211 | 102 | V | 6.3 | 1.5 | 0 | -36.39 | -13 | -23.39 |
| 573.2 | -42.12 | 188 | 198 | Н | 6.1 | 1.5 | 0 | -37.52 | -13 | -24.52 |

High channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-------------------------------|-----------------------|----------------|-------------------|---------------------------------------|-----------------------|-------------------|-------------------------------|----------------|----------------|
| 3815.2 | -25.43 | 210 | 110 | V | 6.3 | 2.3 | 0 | -21.43 | -13 | -8.43 |
| 3815.2 | -26.33 | 114 | 200 | Н | 6.3 | 2.3 | 0 | -22.33 | -13 | -9.33 |
| 638.33 | -39.72 | 198 | 100 | V | 6.1 | 1.67 | 0 | -35.29 | -13 | -22.29 |
| 534.29 | -43.76 | 133 | 200 | Н | 6.2 | 1.5 | 0 | -39.06 | -13 | -26.06 |



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6.7 Band Edge

| Temperature | 20°C |
|----------------------|-------------------|
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
| Test date : | November 26, 2014 |
| Tested By: | Deon Dai |

Requirement(s):

| Requirement(s): | | | |
|-------------------------|---|---|------------|
| Spec | Item | Requirement | Applicable |
| §22.917(a) & §24.238(a) | a) | The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. | > |
| Test setup | | Base Station Power Meter EUT | |
| Procedure | The EUT was connected to Spectrum Analyzer and Base Station via power divider. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100. | | |
| Remark | | | |
| Result | Pas | s Fail | |
| Test Data | Yes | □ _{N/A} | |
| Test Plot | Yes | (See below) | |

Cellular Band (Part 22H) result

| Frequency (MHz) | Emission (dBm) | Limit (dBm) | |
|-----------------|----------------|-------------|--|
| 823.998 | -14.96 | -13 | |
| 849.022 | -15.23 | -13 | |

PCS Band (Part24E) result

| Frequency (MHz) | Emission (dBm) | Limit (dBm) | |
|-----------------|----------------|-------------|--|
| 1849.996 | -18.76 | -13 | |
| 1910.022 | -16.70 | -13 | |

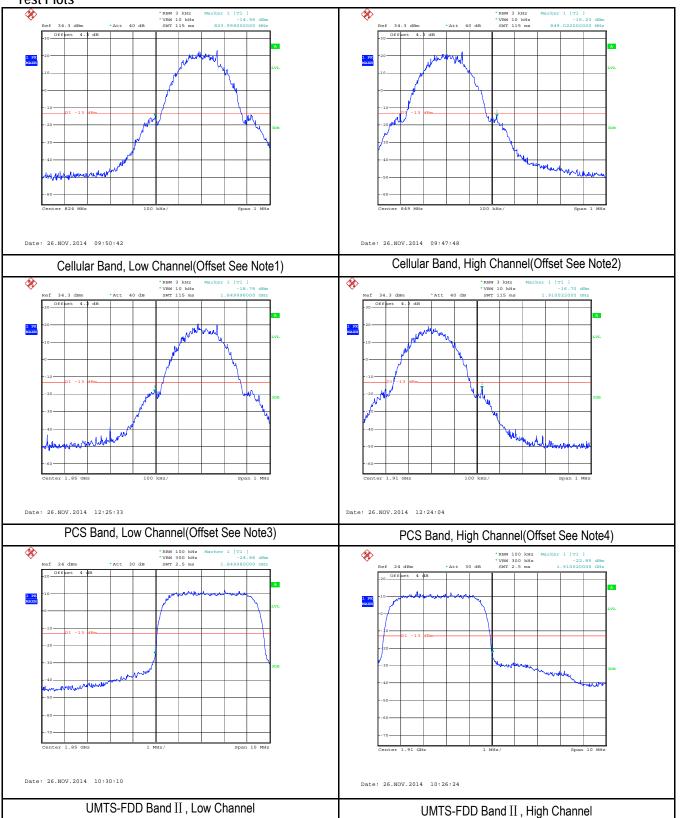
UMTS-FDD Band II (Part 24E)

| Frequency (MHz) | Emission (dBm) | Limit (dBm) |
|-----------------|----------------|-------------|
| 1849.98 | -24.86 | -13 |
| 1910.02 | -22.85 | -13 |



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Test Plots



Note1: Offset=Cable loss (4.0) + 10log (3.22/3)=4.0+0.3=4.3 dB Note2: Offset=Cable loss (4.0) + 10log (3.20/3)=4.0+0.3=4.3 dB Note3: Offset=Cable loss (4.0) + 10log (3.16/3)=4.0+0.2=4.2 dB Note4: Offset=Cable loss (4.0) + 10log (3.20/3)=4.0+0.3=4.3 dB



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6.8 Frequency Stability

| Temperature | 20°C |
|----------------------|-------------------|
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
| Test date : | November 14, 2014 |
| Tested By: | Deon Dai |

Requirement(s):

| Spec | Item | Requirement | Applicable | | |
|----------------------------------|--|--|---|--|--|
| | | According to §22.355, the carrier frequency of each transmitter Mobile Services must be maintained within the tolerances give Frequency Tolerance for Transmitters in the Public Mobile Services. | n in Table below: | | |
| §2.1055, §22.355 & §24.235 | a) | Frequency Range (MHz) Base, fixed (ppm) Mobile ≤ 3 watts (ppm) | bile ≤ 3 watts (ppm) 50.0 50.0 5.0 2.5 N/A N/A N/A to ensure that the | | |
| | | fundamental emissions stay within the authorized frequency bl | | | |
| Test setup | Base Station EUT Thermal Chamber | | | | |
| Procedure | A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage. Limit: The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency. | | | | |
| Remark | | | | | |
| Result | Pass | Fail | | | |
| Test Data | Yes | □ _{N/A} | | | |
| Test Plot | | (See below) N/A | | | |



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Cellular Band (Part 22H) result

| Middle Channel, f _o = 836.6 MHz | | | | | |
|--|--------------------------------------|----------------------------|-----------------------------|----------------|--|
| Temperature (℃) | Power Supplied (V _{DC}) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) | |
| -10 | | 1 | 0.0011 | 2.5 | |
| 0 | | 5 | 0.0060 | 2.5 | |
| 10 | 3.7 | 7 | 0.0084 | 2.5 | |
| 20 | | -3 | -0.0036 | 2.5 | |
| 30 | | 8 | 0.0096 | 2.5 | |
| 40 | | 9 | 0.0108 | 2.5 | |
| 50 | | 12 | 0.0143 | 2.5 | |
| 55 | | 6 | 0.0072 | 2.5 | |
| 25 | 4.2 | 11 | 0.0131 | 2.5 | |
| 20 | 3.5 | 8 | 0.0096 | 2.5 | |

PCS Band (Part 24E) result

| Middle Channel, f _o = 1880 MHz | | | | |
|---|-----------------------------------|----------------------------|-----------------------------|----------------|
| Temperature (°C) | Power Supplied (V _{DC}) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| -10 | | 3 | 0.0016 | 2.5 |
| 0 | | 7 | 0.0037 | 2.5 |
| 10 | | 12 | 0.0064 | 2.5 |
| 20 | | -4 | -0.0021 | 2.5 |
| 30 | 3.7 | 8 | 0.0043 | 2.5 |
| 40 | | 9 | 0.0048 | 2.5 |
| 50 | | 10 | 0.0053 | 2.5 |
| 55 | | 6 | 0.0032 | 2.5 |
| 25 | 4.2 | 11 | 0.0059 | 2.5 |
| 25 | 3.5 | 8 | 0.0043 | 2.5 |



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UMTS-FDD Band II (Part 24E)

| Middle Channel, f _o = 1880 MHz | | | | |
|---|--------------------------------------|----------------------------|-----------------------------|----------------|
| Temperature (°C) | Power Supplied (V _{DC}) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| -10 | | 2 | 0.0011 | 2.5 |
| 0 | | 5 | 0.0027 | 2.5 |
| 10 | | 10 | 0.0053 | 2.5 |
| 20 | 3.7 | -2 | -0.0011 | 2.5 |
| 30 | | 7 | 0.0037 | 2.5 |
| 40 | | 8 | 0.0043 | 2.5 |
| 50 | | 12 | 0.0064 | 2.5 |
| 55 | | 9 | 0.0048 | 2.5 |
| 25 | 4.2 | 6 | 0.0032 | 2.5 |
| 25 | 3.5 | 7 | 0.0037 | 2.5 |



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Annex A. TEST INSTRUMENT

| Instrument | Model | Serial # | Cal Date | Cal Due | In use |
|--------------------------------------|--------------------------------|----------------|------------|------------|----------|
| RF conducted test | | | | | |
| Hp Spectrum Analyzer | 8563E | 3821A09023 | 09/27/2014 | 09/26/2015 | ~ |
| Power Splitter | 1# | 1# | 02/02/2014 | 02/01/2015 | ~ |
| Temperature/Humidity Chamber | 1007H | N/A | 01/08/2014 | 01/07/2015 | V |
| DC Power Supply | PS-305D | 010943059 | 02/22/2014 | 02/21/2015 | ~ |
| Radiated Emissions | | | | | · |
| Hp Spectrum Analyzer | 8563E | 3821A09023 | 09/27/2014 | 09/26/2015 | ~ |
| R&S EMI Receiver | ESPI3 | 101216 | 09/27/2014 | 09/26/2015 | ~ |
| Antenna (30MHz~6GHz) | JB6 | A121411 | 04/15/2014 | 04/14/2015 | ~ |
| ETS-Lindgren Antenna (1 ~18GHz) | 3115 | N/A | 10/09/2014 | 10/08/2015 | V |
| INFOMW Antenna (1 ~18GHz) | JXTXLB-10180 | J2031081120092 | 10/09/2014 | 10/08/2015 | V |
| Horn Antenna (18~40GHz) | AH-840 | 101013 | 04/22/2014 | 04/21/2015 | ~ |
| Microwave Pre-Amp (18~40GHz) | PA-840 | 181250 | 05/30/2014 | 05/29/2015 | V |
| Hp Agilent Pre-Amplifier | 8447F | 1937A01160 | 11/03/2014 | 11/02/2015 | • |
| MITEQ Pre-Amplifier (0.1 ~ 18GHz) | AMF-7D- 00101800-30- 10P | 1451710 | 11/03/2014 | 11/02/2015 | ~ |
| Chamber | 3m | N/A | 04/13/2014 | 04/12/2015 | ~ |



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Annex B. EUT And Test Setup Photographs

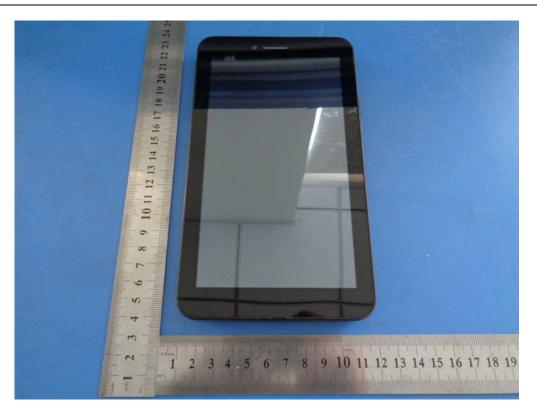
Annex B.i. Photograph EUT Internal Photo



All Packages – Front View



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Front View of EUT



Rear View of EUT



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Top View of EUT



Bottom View of EUT



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Left View of EUT



Right View of EUT



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Annex B.ii. Photograph EUT Internal Photo



Uncover- Front View 1



Uncover- Front View 2

GSM/WCDMA Antenna

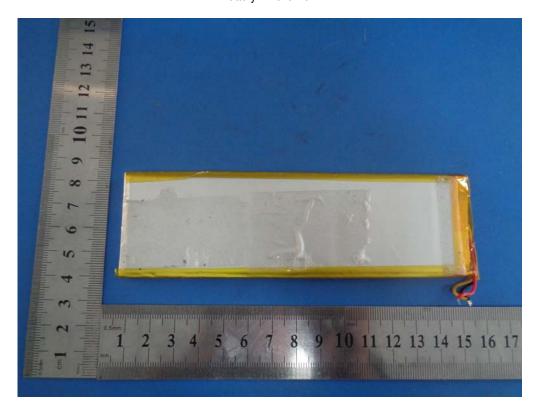
> BT/WIFI/GPS Antenna



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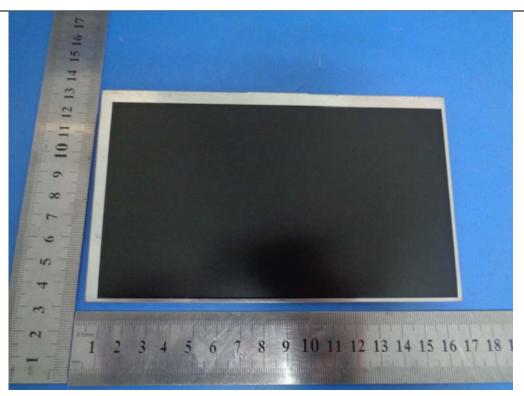
Battery- Front View



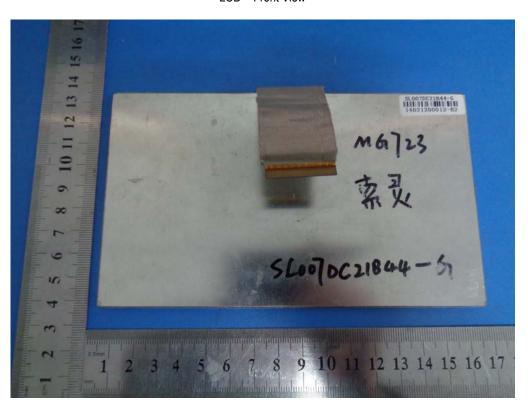
Battery- Rear View



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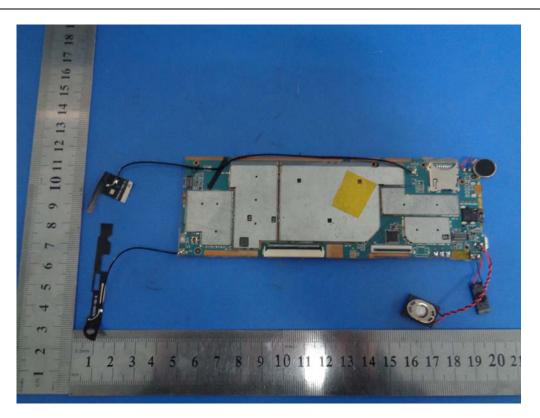
LCD - Front View



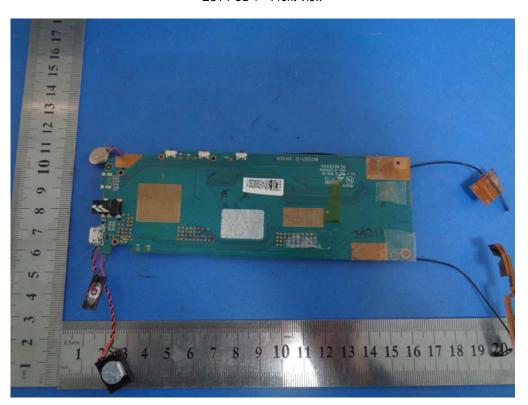
LCD - Rear View



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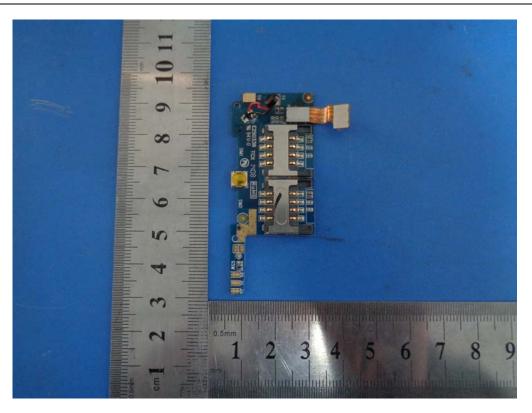
EUT PCB 1 - Front View



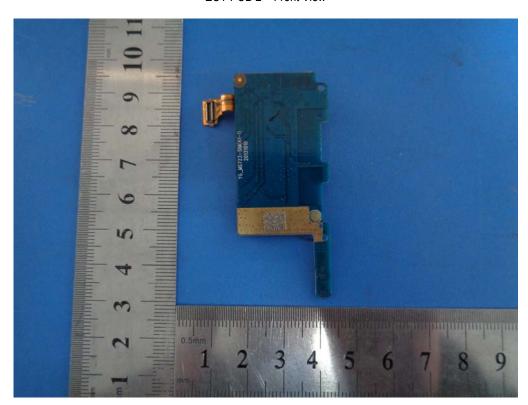
EUT PCB 1 – Rear View



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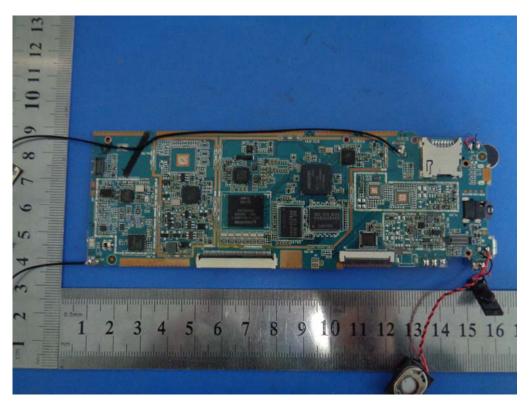
EUT PCB 2 – Front View



EUT PCB 2 - Rear View



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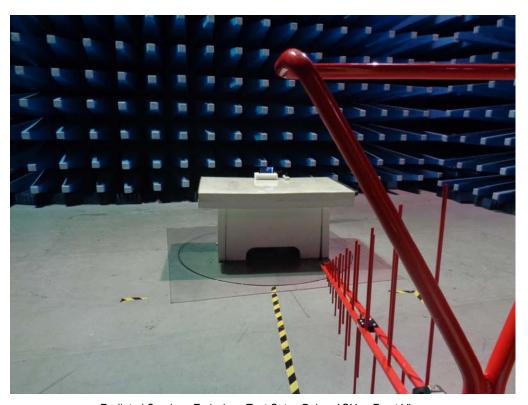


EUT PCB 1 – Withouting Shielding Front View



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Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz - Front View



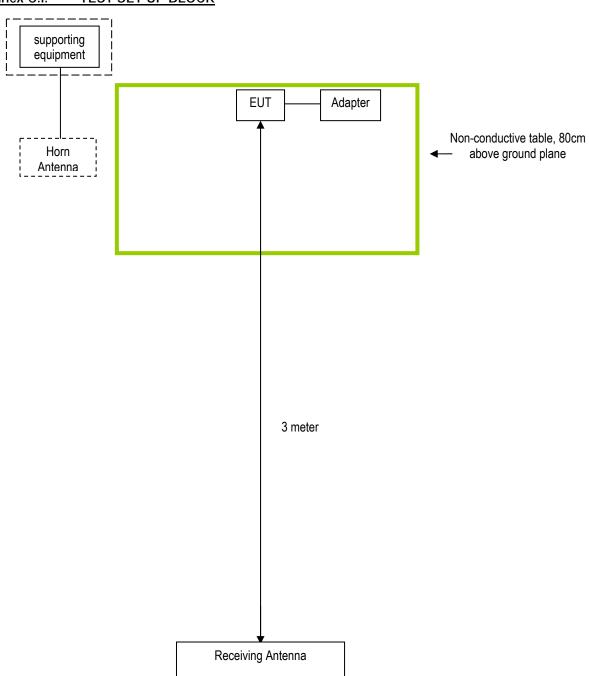
Radiated Spurious Emissions Test Setup Above 1GHz –Front View



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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.i. TEST SET UP BLOCK





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

| Manufacturer | Equipment Description | Model | Calibration Date | Calibration Due Date |
|-----------------|---|--------------|---------------------|-------------------------|
| A-INFOMW | Horn Antenna | JXTXLB-10180 | 10/09/2014 | 10/08/2015 |
| Rohde & Schwarz | Universal Radio Communication Tester | CMU200 | 09/27/2014 | 09/26/2015 |



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| Annex D. User Manı | iai / DIUCK DI | ayraiii / SCNE | illaucs / Part | 1151 | |
|-----------------------|----------------|----------------|----------------|------|--|
| Please see attachment | | | | | |
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Annex E. DECLARATION OF SIMILARITY

Beneworld International(HK) Co., Limited

HK: Unit 04, 7/F, Bright Way Tower, No. 33 Mong Kok Road, Kowloon, Hong Kong TEL: +852-69172443/ 30772819 FAX: +852-30772819

Statement

To whom it may concern

Date: November 18, 2014

We hereby state that the 7inch Tablet PC of our model number BW9 and serial numbers BW7D9, BW7D19, BW7D29, BW7D61, BW7D62, BW7D66, BW7D68,BW7D69, BW7D70, BW7D71 have the same constructions, circuit diagram and PCB layout. Only model name are different.

Sincerely,

Stephen 7ang