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World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.



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Certificate Number 5768.01 For Question. Please Contact with WSCT

TEST REPORT

FCC ID: 2AIZN-X6511E **Product: Mobile Phone** Model No.: X6511E Additional Model No.: N/A **Trade Mark: Infinix** Report No.: WSCT-A2LA-R&E211100558A-15B Issued Date: 10 December 2021

Issued for:

INFINIX MOBILITY LIMITED FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

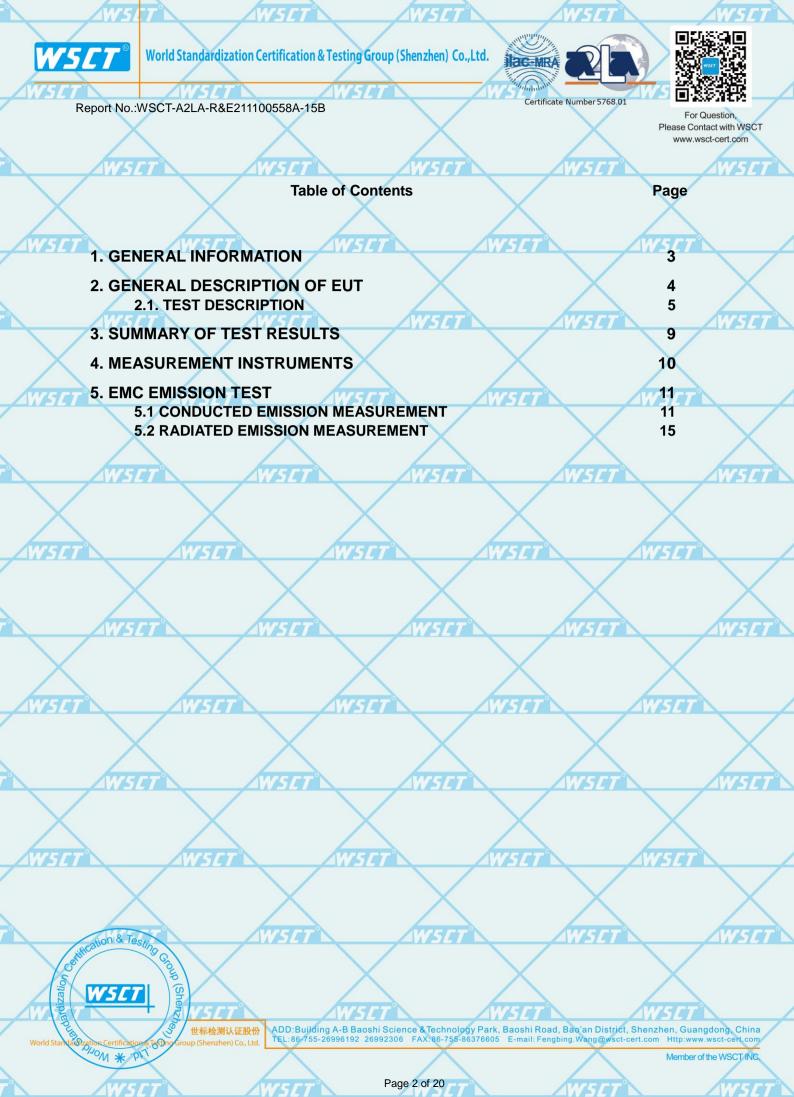
Issued By:

World Standardization Certification & Testing Group Co., Ltd. Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL: +86-755-26996192 WSET FAX: +86-755-86376605

Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group Co., Ltd. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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> > Page 1 of 20







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Report No.:WSCT-A2LA-R&E211100558A-15B

1. GENERAL INFORMATION

| | Product: | Mobile Phone | |
|---|--------------------------|--|---|
| | Model No.: | X6511E | |
| | Additional | NA WSET WSET WSET | |
| | Model: | | / |
| | Applicant: | INFINIX MOBILITY LIMITED | |
| | Address: | FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT | |
| 1 | Manufacturer: | SHENZHEN TECNO TECHNOLOGY CO., LTD. | |
| | Address: | 101,Building 24,Waijing Industrial Park,Fumin Community,Fucheng Street,Longhua District,Shenzhen City,P.R.China | |
| | Data of receipt | 19 November 2021 | |
| | Date of Test: | 19 November 2021 to 09 December 2021 | |
| | Applicable Standards: | FCC Rules Part15 Subpart B. | |
| | | the table of the World Standardization Contification & Testing Group Co. 1td and | |

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

u Shixi Check By: Mana Xiana Tested By: (Pu Shixi) (Wang Xiang) ion & Tes Date: Derembe. 102 Approved By: AS 1 (Wang Fengbing) 10 M * 'P)



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Report No.:WSCT-A2LA-R&E211100558A-15B

1. GENERAL INFORMATION

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|---|--------------------------|--|---|
| | Model No.: | X6511E | |
| | Additional | NA WSET WSET WSET | |
| | Model: | | / |
| | Applicant: | INFINIX MOBILITY LIMITED | |
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2.1. TEST DESCRIPTION

2.1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

| | | SLI WSLI | | |
|-----|-----|-------------------------------|-------------|-----------|
| | No. | Item | Uncertainty | |
| X | 1 | Conducted Emission Test | ±3.2dB | |
| | 2 | RF power, conducted | ±0.16dB | |
| N5. | 3 | Spurious emissions, conducted | ±0.21dB | WSET |
| | 4 | All emissions, radiated(<1G) | ±4.7dB | |
| | 5 | All emissions, radiated(>1G) | ±4.7dB | \square |
| | 6 W | Temperature W5C7 | ±0.5°C | WSET |
| | 7 | Humidity | ±2% | |
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2.1.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

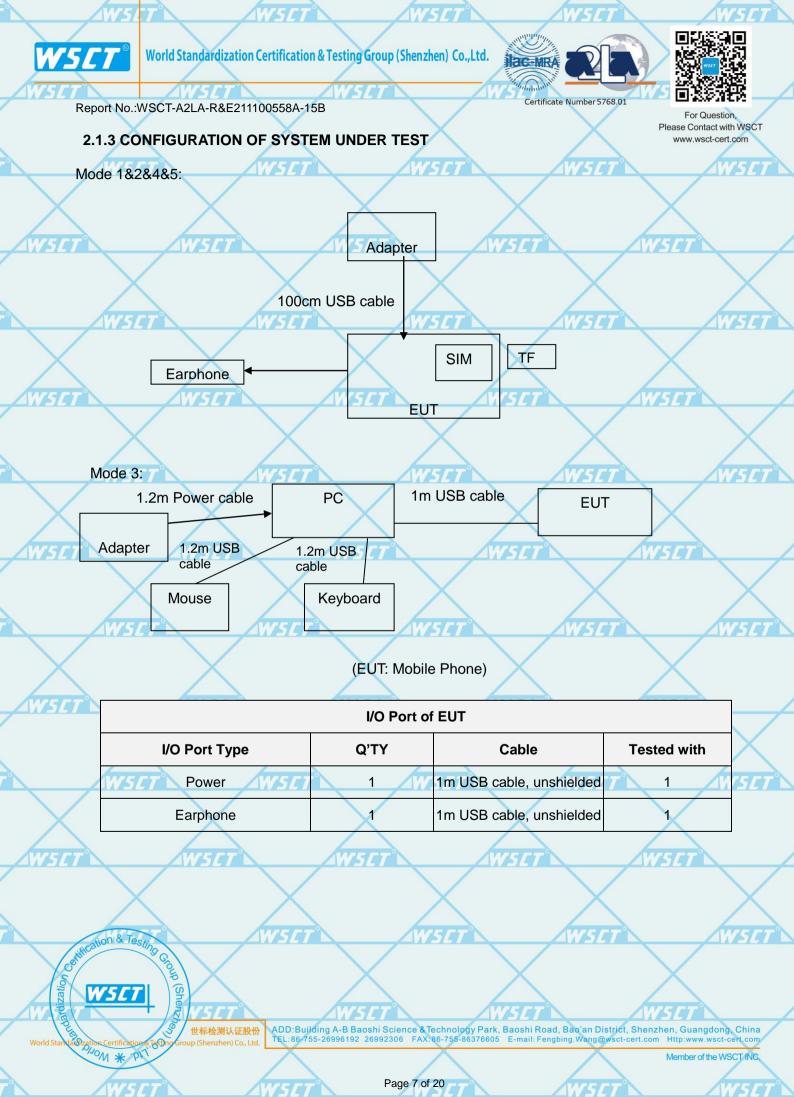
| Pretest Mode | Description | |
|--------------|-----------------------------|-----------|
| Mode 1 | Video Recording | |
| Model 2 | Video Playing | 1 |
| Mode 3 | Exchange data with computer | $ \frown$ |
| Mode 4 | GPS | |
| Mode 5 | FM | |
| | AWSLTAWSLTAWS | |

| | Tor Conducted Emission | | | | | |
|-----------------|------------------------------|--|--|--|--|--|
| Final Test Mode | Test with Keyboard and Mouse | | | | | |
| Mode 1 | Video Recording | | | | | |
| Model 2 | Video Playing | | | | | |
| Mode 3 | Exchange data with computer | | | | | |
| Mode 4 | GPS | | | | | |
| Mode 5 | FM WSET WS | | | | | |
| | | | | | | |

For Conducted Emission

| | | For Radiated Emission | |
|---|-----------------|------------------------------|------|
|) | Final Test Mode | Test with Keyboard and Mouse | WSET |
| | Mode 1 | Video Recording | / |
| | Model 2 | Video Playing | |
| | Mode 3 | Exchange data with computer | |
| | Mode 4 | GPS SLI | [7 |
| | Mode 5 | FM | |
| | K . | X X X | X |











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2.1.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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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.

| 141 | | | | | | 1W S / / N |
|-----|------|-----------|-----------|----------------|------------|------------|
| | ltem | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
| | 1 | Adapter | / | U100XSA | / | / |
| | 2 | Keyboard | HP | SK-2880 | 435302-AA- | / |
| | 3 | Mouse | DELL | MS111-1 | 1 | |

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- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.





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3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart B

| Standard Section | Test Item | Judgment | Remark | |
|---------------------|--------------------|----------|--------|--|
| 15.107 | CONDUCTED EMISSION | PASS | | |
| 15.109 | RADIATED EMISSION | PASS | | |

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

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4. MEASUREMENT INSTRUMENTS W50

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| / | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last Calibrated | Calibrated until | |
|---|--------------------|--------------|-------------|-------------|--------------------|---------------------|----|
| 1 | ESCI Test Receiver | R&S | ESCI | 100005 | 11/05/2021 | 11/04/2022 | |
| 7 | LISN W5LT | AFJ WS | LS16 | 16010222119 | 11/05/2021 | 11/04/2022 | _ |
| | LISN(EUT) | Mestec | AN3016 | 04/10040 | 11/05/2021 | 11/04/2022 | / |
| | pre-amplifier | CDSI | PAP-1G18-38 | | 11/05/2021 | 11/04/2022 | 1 |
| _ | System Controller | W5 CT | SC100 | - / | 11/05/2021 | 11/04/2022 | 57 |
| / | Bi-log Antenna | Chase | CBL6111C | 2576 | 11/05/2021 | 11/04/2022 | |
| - | Spectrum analyzer | R&S | FSU26 | 200409 | 11/05/2021 | 11/04/2022 | |
| 7 | Horn Antenna 5 CT | SCHWARZBECK | 9120D | 1141 | 11/05/2021 5 | 11/04/2022 | |
| | Bi-log Antenna | SCHWAREBECK | VULB9163 | 9163/340 | 11/05/2021 | 11/04/2022 | / |
| | Pre Amplifier | H.P. | HP8447E | 2945A02715 | 11/05/2021 | 11/04/2022 | 1 |
| | 9*6*6 Anechoic | AWSET | | / | 11/05/2021 | 11/04/2022 | 57 |
| | | | | | | | |

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Page 10 of 20







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5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits

Limits (Frequency Range 150KHz-30MHz)

| | | | | 1 MIG | | |
|-----------------|----------------|---------|----------------|-----------|----------|--|
| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | | Standard | |
| | Quasi-peak | Average | Quasi-peak | Average | Stanuaru | |
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | FCC | |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | FCC | |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 | FCC | |
| | | | | | | |

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(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| \checkmark | Receiver Parameters | Setting | |
|--------------|---------------------|----------|--|
| \wedge | Attenuation | 10 dB | |
| 5C | Start Frequency | 0.15 MHz | |
| | Stop Frequency | 30 MHz | |
| | IF Bandwidth | 9 kHz | |
| | | | |

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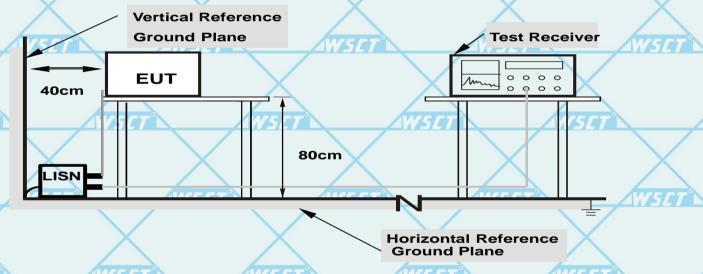
5.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation

5.1.4 TEST SETUP



- Note: 1.Support units were connected to second LISN.
 - 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
 - from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

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The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.





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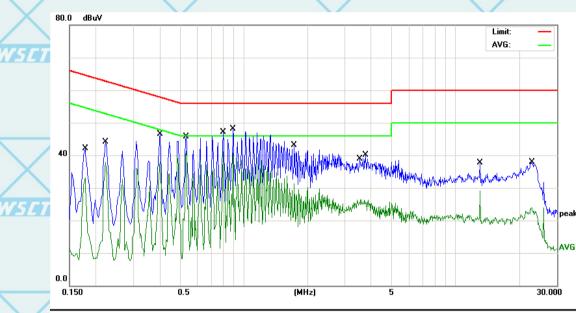


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5.1.6 TEST RESULTS This is the wo

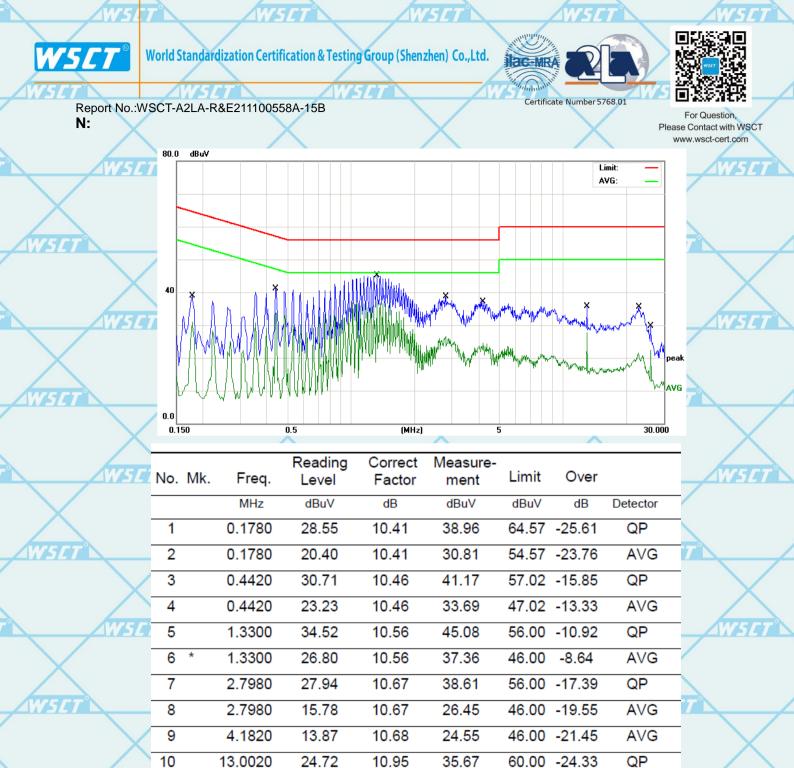
| | This is the worst p | allem dala | | | | . / |
|----|---------------------|-------------|-------------------|-------------------|-----|-------------------|
| / | Temperature | 26 ℃ | $\mathbf{\nabla}$ | Relative Humidity | 54% | $\mathbf{\nabla}$ |
| 1 | Pressure | 1010hPa | \sim | Phase | L/N | |
| Ci | Test Mode | Mode 3 | WSET | | W | SET |



| \times | No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | - |
|----------------------|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|------|
| WSET | | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | _/ |
| \sim | 1 | | 0.1780 | 31.61 | 10.41 | 42.02 | 64.57 | -22.55 | QP | |
| \land | 2 | | 0.2220 | 27.56 | 10.41 | 37.97 | 52.74 | -14.77 | AVG | |
| WSET | 3 | | 0.4020 | 35.99 | 10.45 | 46.44 | 57.81 | -11.37 | QP | 7° 1 |
| | 4 | * | 0.5340 | 30.74 | 10.47 | 41.21 | 46.00 | -4.79 | AVG | - |
| | 5 | | 0.7980 | 30.69 | 10.49 | 41.18 | 46.00 | -4.82 | AVG | - |
| WSET | 6 | | 0.8860 | 37.53 | 10.50 | 48.03 | 56.00 | -7.97 | QP | |
| \mathbf{X} | 7 | | 1.7300 | 20.66 | 10.62 | 31.28 | 46.00 | -14.72 | AVG | |
| \square | 8 | | 3.5700 | 15.88 | 10.68 | 26.56 | 46.00 | -19.44 | AVG | |
| WSET | 9 | | 3.7540 | 29.50 | 10.68 | 40.18 | 56.00 | -15.82 | QP | 71 |
| \sim | 10 | 1 | 12.9980 | 26.73 | 10.95 | 37.68 | 60.00 | -22.32 | QP | - |
| | 11 | 2 | 22.8540 | 26.80 | 11.01 | 37.81 | 60.00 | -22.19 | QP | - |
| contration & Testing | 12 | 2 | 22.8540 | 12.92 | 11.01 | 23.93 | 50.00 | -26.07 | AVG | / |
| | | | | | | | | | | |

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Page 14 of 20







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5.2 RADIATED EMISSION MEASUREMENT

5.2.1 Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Field Strength | Measurement Distance | | | |
|--------------------|--|--|--|--|
| (micorvolts/meter) | (meters) | | | |
| 2400/F(KHz) | 300 | | | |
| 24000/F(KHz) | 30 [7 | | | |
| 30 | 30 | | | |
| 100 | 3 | | | |
| W5C150 | <u>W5[7 3 W5</u> | | | |
| 200 | 3 | | | |
| 500 | 3 | | | |
| | (micorvolts/meter) 2400/F(KHz) 24000/F(KHz) 30 100 100 200 | | | |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Limit (dBuV/m) (at 3M) | | | | |
|-----------------|------------------------|---------|----------|--|--|
| | PEAK | AVERAGE | <u>.</u> | | |
| Above 1000 | 74 | 54 |] | | |
| Nataa | | | - | | |

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(1) The limit for radiated test was performed according to FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

| | | | _ |
|---|---------------------------------|---|-------------------|
| | Spectrum Parameter | Setting | |
| | Attenuation | Auto | |
| | Start Frequency | 1000 MHz | X |
| | Stop Frequency | 10th carrier harmonic | SFT |
| / | RB / VB (emission in restricted | 1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average | |
| | band) | | |
| | | | |
| | Receiver Parameter | Setting | -/ |
| | Attenuation | Auto | $\mathbf{\nabla}$ |
| | Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP | $\langle \rangle$ |
| | | | |

on & Test Start ~ Stop Frequency

Start ~ Stop Frequency

150kHz~30MHz / RB 9kHz for QP 30MHz~1000MHz / RB 120kHz for QP

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Page 15 of 20



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5.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

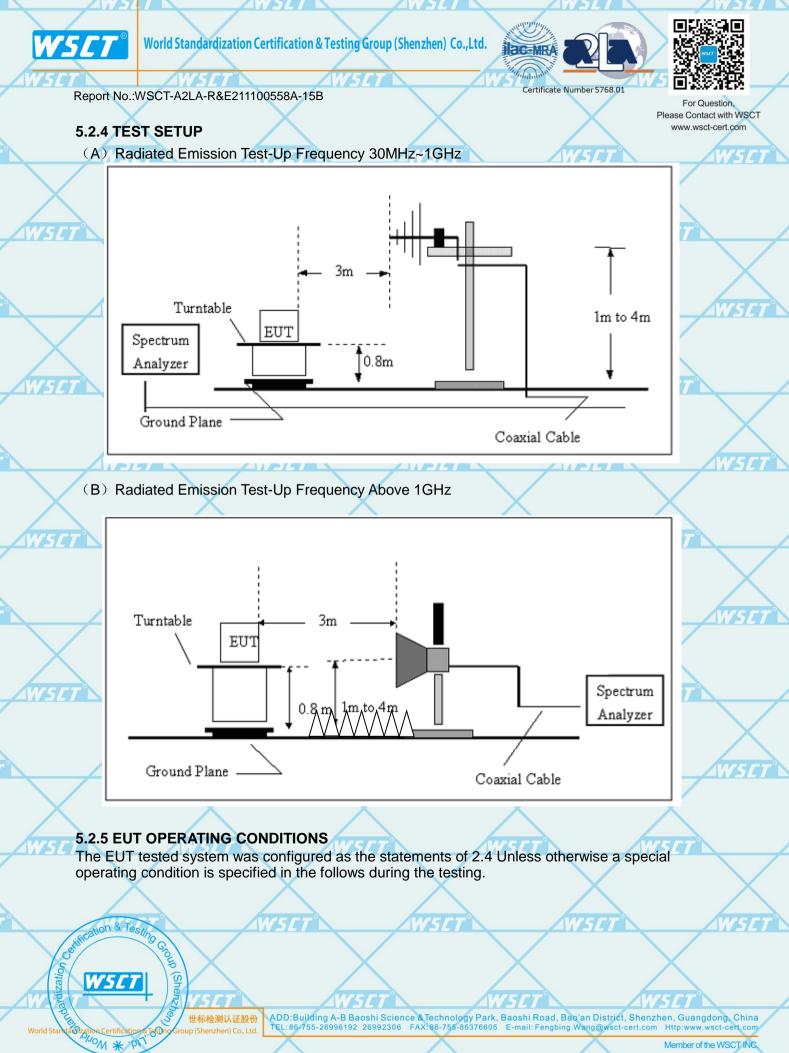
5.2.3 DEVIATION FROM TEST STANDARD

No deviation

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Page 17 of 20



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5.2.5.1 TEST RESULTS (Between 30M - 1000 MHz)

| Т | nis is the worst patterr | n data | X | X | |
|---|--------------------------|-------------|-------------------|---------------------|---|
| | Temperature | 20 ℃ | Relative Humidity | 48% | |
| Γ | Pressure | 1010 hPa | Polarization : | Horizontal/Vertical | |
| | Test Mode | Mode 3 | | | / |



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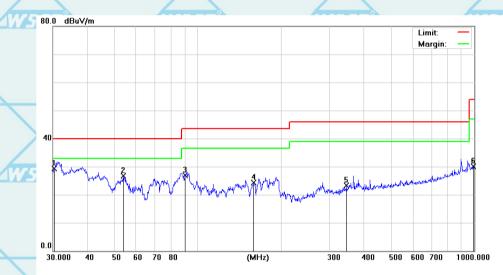
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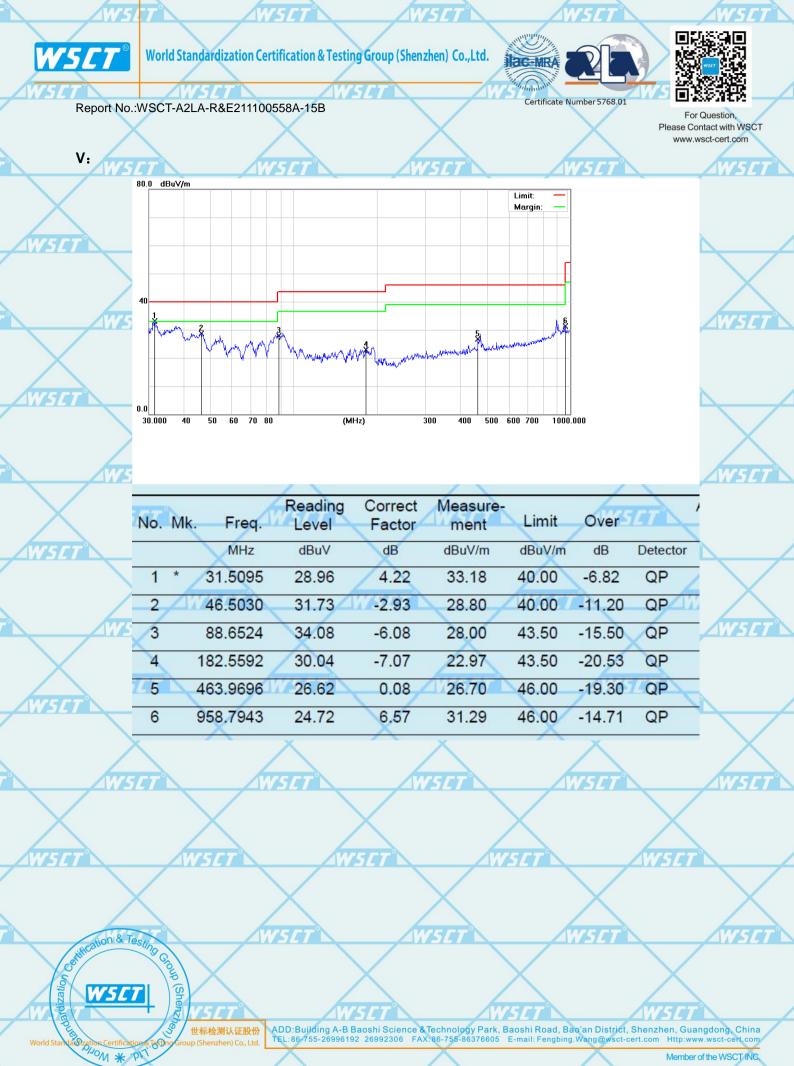
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|-----|-----|------------|----------|------------------|---------------------|------------------|--------|--------|----------|
| E | No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | CT |
| | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| | 1 | * | 30.3173 | 24.62 | 4.67 | 29.29 | 40.00 | -10.71 | QP |
| | 2 | <u>A</u> 1 | 53.8818 | 32.27 | -5.48 | 26.79 | 40.00 | -13.21 | QP |
| | 3 | | 90.2205 | 32.85 | <mark>-5.8</mark> 7 | 26.98 | 43.50 | -16.52 | QP |
| | 4 | | 159.7844 | 30.09 | -5.77 | 24.32 | 43.50 | -19.18 | QP |
| | 5 | N: | 345.5952 | 24.87 | -1.66 | 23.21 | 46.00 | -22.79 | QP |
| | 6 | (| 993.0114 | 22.86 | 7.19 | 30.05 | 54.00 | -23.95 | QP |
| | | | | | | | | | |

世标检测认证股份 roup (Shenzhen) Co., Ltd. TEL:86-755-26996192 26992306 FAX:86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com



Page 19 of 20



75E1

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For Question, Please Contact with WSCT

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5.2.5.2 TEST RESULTS (1GHz to 25GHz)

| This is the worst p | attern data | | | VALI | |
|---------------------|-------------|-----------|-------------------|--------|--------------|
| Temperature | 20 ℃ | \bigvee | Relative Humidity | 48% | \checkmark |
| Pressure | 1010 hPa | \wedge | Test Mode | Mode 3 | |

| | Freq. | Ant. | Emis | sion | Limit | 15 <i>CT</i> N | Over(dB) | | |
|---|---------|------|-------------|-------|---------|----------------|--------------|----------|-------------|
| | (MHz) | Pol. | Level(dBuV) | | 3m(dBu\ | //m) | \backslash | | / |
| | | H/V | РК | AV | РК | AV | PK | AV | X |
| | 1454.55 | V | 57.91 | 38.97 | 74 | 54 | -16.09 | -15.03 🧹 | |
| 1 | 2498.92 | V | 57.84 | 39.20 | V5L74 | 54 | -16.16 | -14.80 | 5 <i>C1</i> |
| | 1605.88 | н | 57.88 | 39.10 | 74 | 54 | -16.12 | -14.90 | 1 |
| | 2453.22 | ХН | 57.55 | 39.01 | 74 | 54 | -16.45 | -14.99 | |
| | | | | | | | | | |

Remark:

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All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier. All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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---END OF REPORT---

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