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TEST REPORT

FCC ID: 2AXYP-OTW-330S-R Product: True Wireless Earbuds Model No.: OTW-330S Trade Mark: oraimo Report No.: WSCT-A2LA-R&E240400018A-LE Issued Date: 19 April 2024

Issued for:

ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

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

FAX: +86-755-86376605

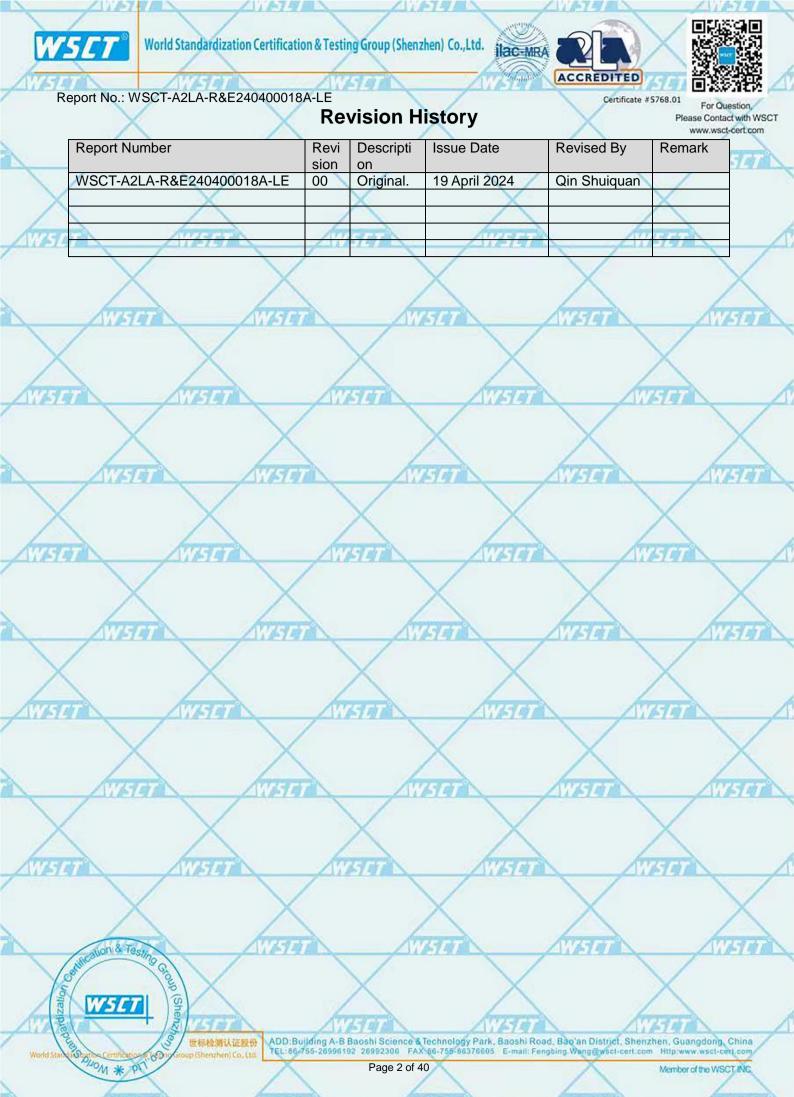
Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification,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

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| 7. | Test Setup Photographs | X | | |
| | | | | |





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| - | I. Test Cer | tification Please Contact with W www.wsct-cert.com |
|---|--------------------------|---|
| | Product: | True Wireless Earbuds |
| | Model No.: | OTW-330S |
| | Additional Model: | oraimo |
| | Applicant: | ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| | Manufacturer; | ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| 2 | Date of receipt: | 28 March 2024 WSET WSET WSET |
| | Date of Test: | 29 March 2024 ~ 18 April 2024 |
| | Applicable Standards: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04 |

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)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.

Xian Tested By: Checked By: (Wang Xiang) (Qin Shuiquan) & Tes Approved By: Date: (Liu Fuxin) ation & Testing World Stanta Sization Certine

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2. Test Result Summary

| | tores tores | The formation | ATTEND / | (TITAL) |
|---|-------------------------------------|-------------------------------------|----------|--------------|
| / | Requirement | CFR 47 Section | Result | |
| | Antenna requirement | §15.203/§15.247 (c) | PASS | |
| 7 | AC Power Line Conducted Emission | §15.207 | N/A | \checkmark |
| - | Conducted Peak Output Power | §15.247 (b)(3) §2.1046 | PASS | |
| 5 | 6dB Emission Bandwidth | §15.247 (a)(2) §2.1049 | PASS | |
| | Power Spectral Density | §15.247 (e) | PASS | \checkmark |
| | Band Edge | 1§5.247(d) §2.1051, §2.1057 | PASS | WEITER |
| | Spurious Emission | §15.205/§15.209 §2.1053, §2.1057 | PASS | |

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1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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EUT Description 3.

| 3. EUT Description | \sim \sim | www.wsct-cert.com |
|---------------------------|---|-------------------|
| Product Name: | True Wireless Earbuds | A |
| Model : | OTW-330S | |
| Trade Mark: | oraimo | |
| Frequency Range: | 2402-2480MHz(TX/RX) | |
| Channel Separation: | 2MHz | X |
| Number of Channel: | 40 | ATSIT |
| Modulation Technology: | GFSK | |
| Antenna Type: | FPC Antenna | |
| Antenna Gain: | 1.03dBi | |
| AVESS AV | Li-ion Battery: 501012 Voltage: 3.7V Rated Capacity: 40mAh | A HIT |
| Operating Voltage | Limited Charge Voltage: 4.2V Charging Box: 902235 Output: 5V200mA | $\langle $ |
| AVISIT L | Input:5V1A | |
| Remark: | Capacity:600Ah/3.7V/2.22Wh N/A. | $\equiv \times$ |

Note: 1. N/A stands for no applicable.

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2. Antenna gain provided by the applicant

Operation Frequency each of channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| | | | | | | 1. | <u> </u> |
| 2 8 - | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |
| Remark: Channel 0, 19 & 39 have been tested. | | | | | | | |

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4. Genera Information

4.1. Test environment and mode

Operating Environment:

| Temperature: | 25.0 °C |
|-----------------------|-----------|
| Humidity: | 56 % RH |
| Atmospheric Pressure: | 1010 mbar |

Test Mode:

Engineering mode:

Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

ilac-MR/

The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. 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.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|-----------|-----------|------------|--------|------------|
| | | | / | |

Note:

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- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended

use.

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3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1. Facilities

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All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group(Shenzhen) CO., LTD

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2.ACCREDITATIONS CNAS - Registration Number: L3732

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

A2LA - Certificate Number: 5768.01

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA).Certification Number: 5768.01





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5.3.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 %.

| | | | | - |
|----|------|--------------------------------|---------|-------|
| 7 | No. | Item | MU | |
| 91 | 1 | Conducted Emission Test | ±3.2dB | |
| | 2 | RF power, conducted | ±0.16dB | X |
| | 3W50 | Spurious emissions, conducted | ±0.21dB | WISET |
| / | 4 | All emissions, radiated(<1GHz) | ±4.7dB | |
| 1 | 5 | All emissions, radiated(>1GHz) | ±4.7dB | |
| 41 | 6 | Temperature | ±0.5°C | |
| | 7 🗡 | Humidity | ±2.0% | X |
| | | | | / / |



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| 5.4.MEASUREN | | | | Certificate | #5768.01 For Q Please Conta www.wso | 100 C 100 |
|--|---------------------------|------------------|------------------|---------------------|---|---|
| NAME OF EQUIPMENT | MANUFACTURER | MODEL | SERIAL NUMBER | Calibration Date | Calibration Due. | 514 |
| Test software | <u> </u> | EZ-EMC | CON-03A | - | × | |
| Test software | | MTS8310 | | - / | | |
| EMI Test Receiver | R&S | ESCI | 100005 | 11/05/2023 | 11/04/2024 | |
| LISN | AFJ | LS16 | 16010222119 | 11/05/2023 | 11/04/2024 | \times |
| LISN(EUT) | Mestec | AN3016 | 04/10040 | 11/05/2023 | 11/04/2024 | 1.4.2 |
| Universal Radio Communication Tester | R&S | CMU 200 | 1100.0008.02 | 11/05/2023 | 11/04/2024 | 214 |
| Coaxial cable | Megalon | LMR400 | N/A | 11/05/2023 | 11/04/2024 | |
| GPIB cable | Megalon | GPIB | N/A | 11/05/2023 | 11/04/2024 | |
| Spectrum Analyzer | R&S | FSU | 100114 | 11/05/2023 | 11/04/2024 | \times |
| Pre Amplifier | H.P. | HP8447E | 2945A02715 | 11/05/2023 | 11/04/2024 | I.T. |
| Pre-Amplifier | CDSI | PAP-1G18-38 | | 11/05/2023 | 11/04/2024 | P14 |
| Bi-log Antenna | SCHWARZBECK | VULB9168 | 01488 | 7/29/2023 | 7/28/2024 | |
| 9*6*6 Anechoic | - | 19 miles | (URIT) | 11/05/2023 | 11/04/2024 | |
| Horn Antenna | COMPLIANCE ENGINEERING | CE18000 | | 11/05/2023 | 11/04/2024 | |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-631 | 11/05/2023 | 11/04/2024 | \wedge |
| Cable | TIME MICROWAVE | LMR-400 | N-TYPE04 | 11/05/2023 | 11/04/2024 | 5/2 |
| System-Controller | ccs | N/A | N/A | N.C.R | N.C.R | |
| Turn Table | ccs | N/A | N/A | N.C.R | N.C.R | |
| Antenna Tower | ccs | /5//N/A | N/A | N.C.R | N.C.R | |
| RF cable | Murata | MXHQ87WA300 0 | - | 11/05/2023 | 11/04/2024 | X |
| Loop Antenna | EMCO | 6502 | 00042960 | 11/05/2023 | 11/04/2024 | 1.0 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | 1123 | 11/05/2023 | 11/04/2024 | -14 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 11/05/2023 | 11/04/2024 | |
| Power sensor | Anritsu | MX248XD | ATTATA | 11/05/2023 | 11/04/2024 | |
| Spectrum Analyzer | Keysight | N9010B | MY60241089 | 11/05/2023 | 11/04/2024 | |
| X | Y | V | | X | | V |

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Antenna

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Test Results and Measurement Data 6.

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

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The Bluetooth antenna is a FPC Antenna. it meets the standards, and the best case gain of the antenna is 1.03dBi.





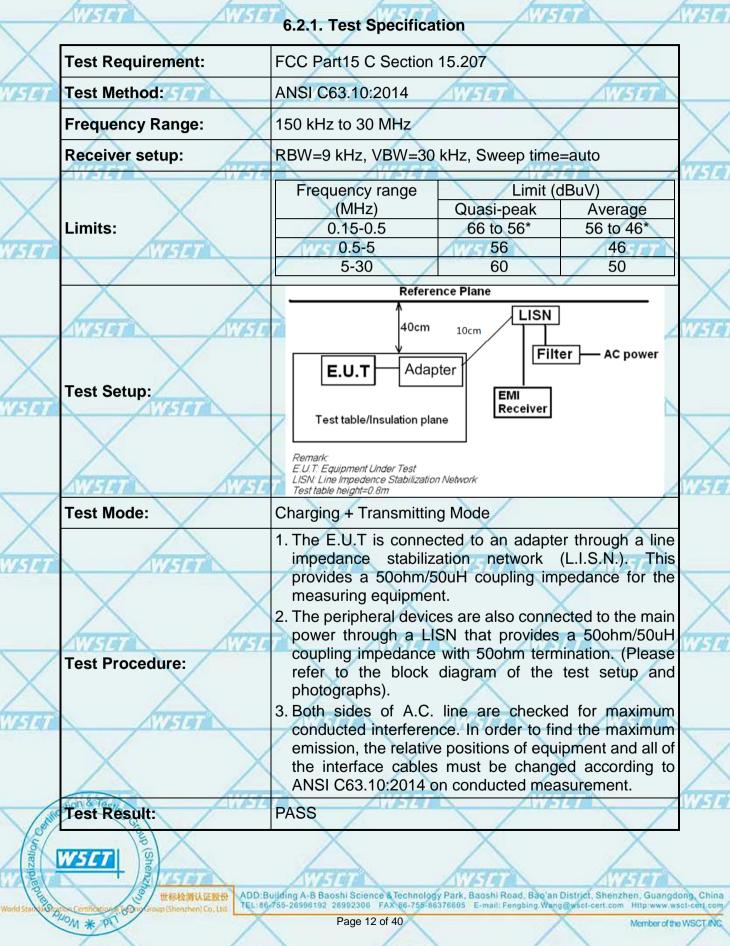


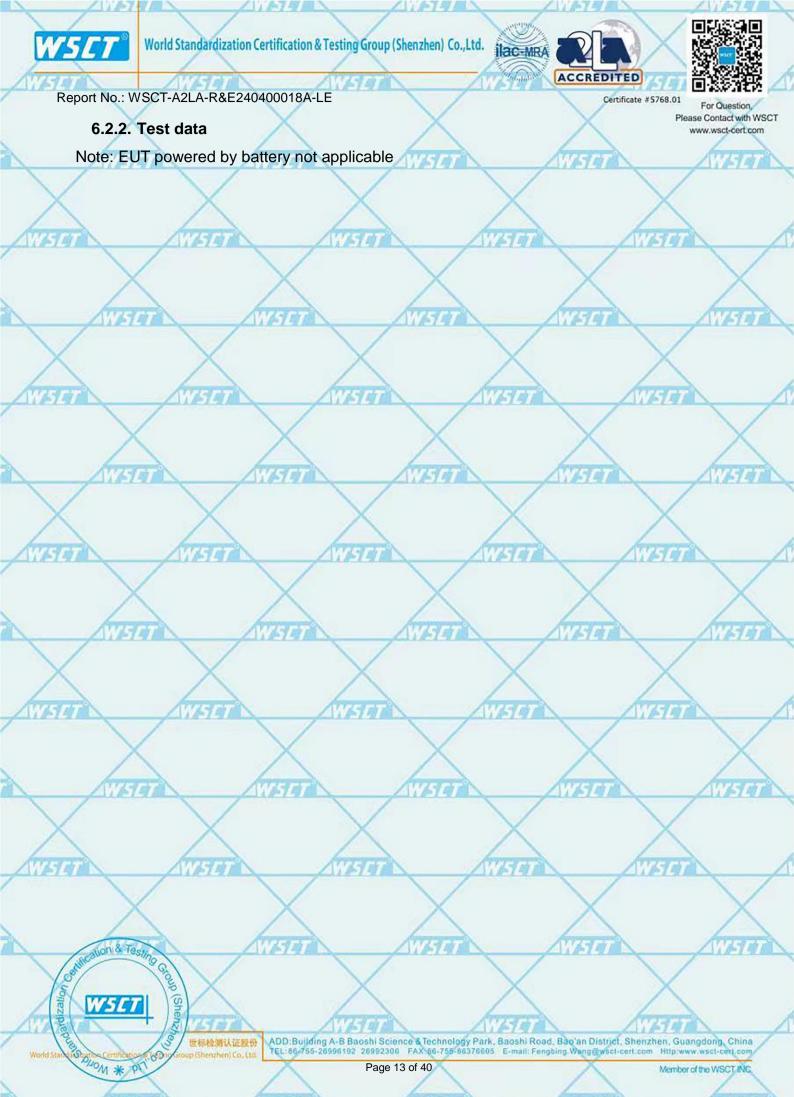


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6.2. Conducted Emission











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6.3. Conducted Output Power

6.3.1. Test Specification

| / | | 0.5.1. Test opecification |
|---------|---|--|
| | Test Requirement: | FCC Part15 C Section 15.247 (b)(3) |
| a) | Test Method: | KDB558074 |
| | Limit: | 30dBm |
| ~ | Test Setup: | Spectrum Analyzer EUT |
| | Test Mode: | Refer to item 4.1 |
| | Test Procedure: | The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. c) Set span ≥ 3 x RBW. d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. |
| | Test Result: | PASS |
| T | AVISIET AVISIE | WISTON WISTON WISTON |
| T | WEIT | WEIGT WEIGT |
| / | alion & Tests | T WISHT WISHT WISHT |
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| C Stand | ADD:B Cernflation: (59ng stoup (Shenzhen) Co. Ltd M 米 PT | uilding A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China 755-26996192 26992308 FAX 86-755-86376605 E-mail: Fengbing Wang@wscl-cert.com Hitp:www.wscl-cert.com Page 14 of 40 Member of the WSCT INC |
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6.3.2. Test Data

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|---|--------------|---|-------------|--------|---|
| | Test channel | Maximum Conducted Output Power (dBm) | Limit (dBm) | Result | |
| | Lowest | 6.09 | 30.00 | PASS | |
| | Middle | 5.07 | 30.00 | PASS | |
| | Highest | 4.07 | 30.00 | PASS | X |

Test plots as follows:

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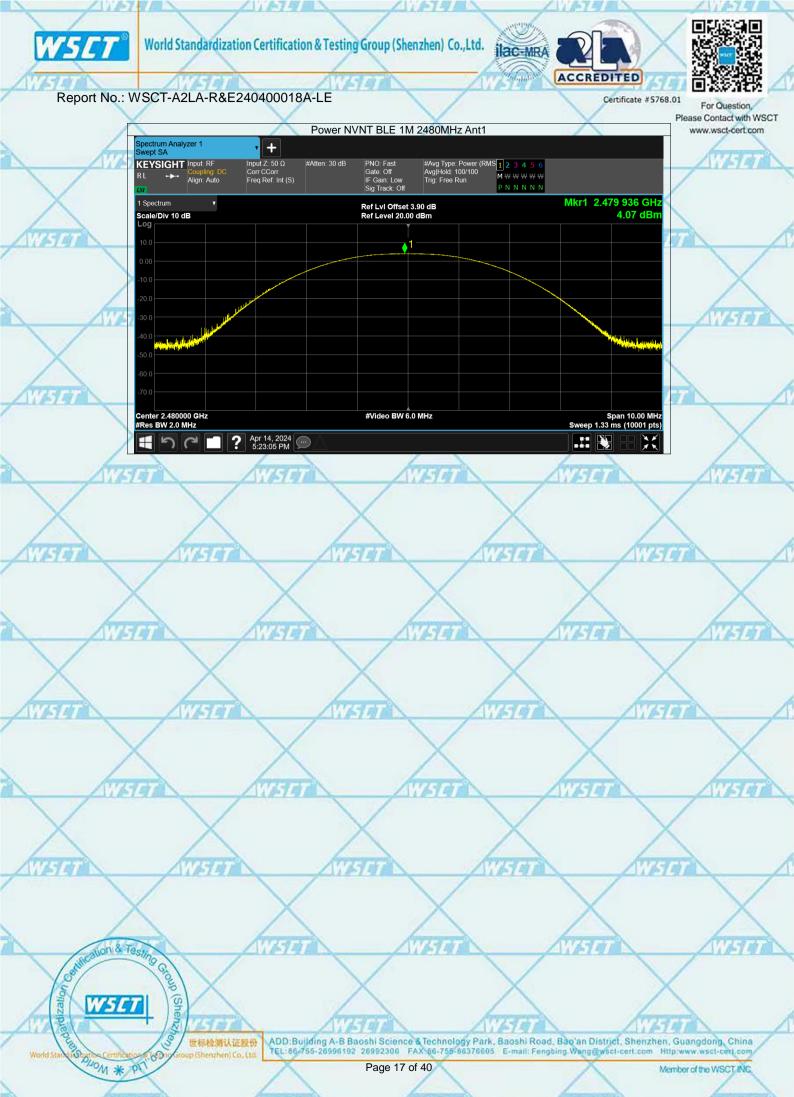
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6.4. Emission Bandwidth

| AVISIAN AVISI | 6.4.1. Test Specification | WISTER | र्रण्डान |
|--|---|---|-----------------|
| Test Requirement: | FCC Part15 C Section 15.24 | 7 (a)(2) | |
| Test Method: | KDB558074 | 10 /10 | 1 |
| Limit: | >500kHz | $\overline{\mathbf{V}}$ | |
| Test Setup: | Spectrum Analyzer | EUT | AVIII. |
| Test Mode: | Refer to item 4.1 | TET AVET | |
| Test Procedure: | | e v04. r setting and enable the y. ith the spectrum analyzer W) = 100 kHz. Set the = 300 kHz. In order to make the 6dB bandwidth mu | s (e |
| Test Result: | PASS | | |
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| TT WISTOT | | STORE AND | |
| wister wist | | WISTER | wstr |
| stration & Testino | $\langle X \rangle$ | NVETER | |
| Selfication & Testing Gaussian Selfication & Testing Gauss Selfication & Testing Selfication | Building A-B Baoshi Science & Technology Park, Ba 16,755-26996192 26992308 FAX 66-755-86376605 E | aoshi Road, Bao'an District, Shenzhen, Gui -mail: Fengbing, Wang@wscl-cert.com Http:// | |
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6.4.2. Test data

| B | LE 1M | AVISTAT AVISTAT | AWS! | | WSET N |
|--------------------|--------------|-----------------|-----------------|--------|-----------|
| \bigtriangledown | Test channel | 6dB Emission | Bandwidth (kHz) | | |
| X | Test channel | BT LE mode | Limit | Result | |
| WSET | Lowest | 654.5 | >500k | AVISIT | |
| | Middle | 653.0 | >500k | PASS | \bigvee |
| | Highest | 649.8 | >500k | | \wedge |
| | ATTACK | NUSTRA AVISTRA | AUTE | | WISFT |

Test plots as follows:

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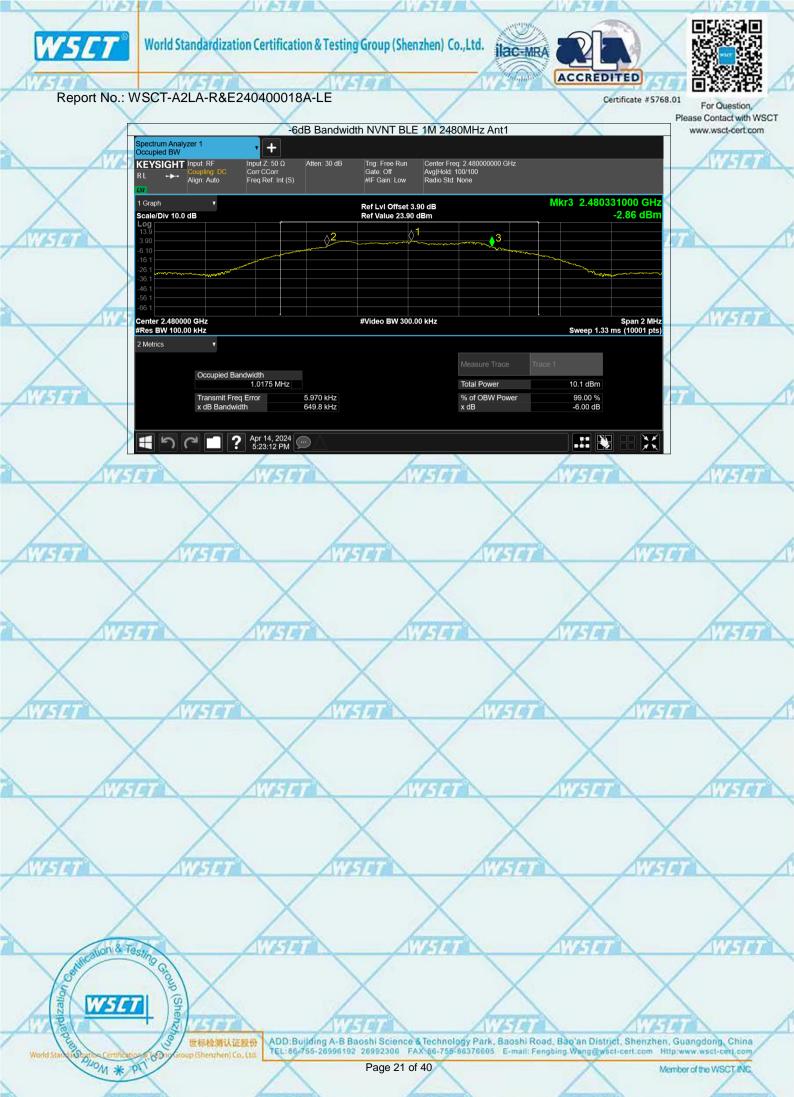
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| WATER AN | 6.5.1. Test Specification |
|------------------|--|
| est Requirement: | FCC Part15 C Section 15.247 (e) |
| est Method: | KDB558074 |
| .imit: | The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission. |
| est Setup: | |
| est Mode: | Refer to item 4.1 |
| Fest Procedure: | The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. |
| est Result: | PASS |

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| | X | XX | \times | Please | Contact with WSCT w.wsct-cert.com |
|-------------------|--|--|----------------------------|------------------------|--------------------------------------|
| | AULTRA A | 6.5.2. Test data | AVIS! | TA . | (TETA) |
| | Testshered | Power Spectral D | ensity (dBm/3kH | lz) | |
| X | Test channel | BLE 1M | Limit | Result | |
| WSET | Lowest | -8.44 | 8 dBm/3kHz | WISET | |
| | Middle | -9.11 | 8 dBm/3kHz | PASS | \bigvee |
| | Highest | -11.55 | 8 dBm/3kHz | | \wedge |
| _ | | AMERICA AND AND AND AND AND AND AND AND AND AN | 177 | | WSET |
| $\mathbf{\nabla}$ | Test plots as follows: | \mathbf{X} | \mathbf{X} | | |
| \bigtriangleup | $ \Delta $ | Δ | | \square | |
| WSET | AVISTATIO | | WATT | AWSET | $\frown \land$ |
| | X | XX | \rightarrow | | X |
| | And A | | ku a | \rightarrow | hard |
| | | | | | |
| X | X | X | X | X | |
| WIST | ATTEN A | NYSTER / | WATER | WISH | |
| | | | | / | |
| | \wedge | \wedge | | | \wedge |
| | AVISIT | WISET | NTS . | | AVERA |
| \bigvee | | | \sim | | |
| \bigtriangleup | $ \Delta$ | \square | | | |
| WSET | AVATAT | | WEIGT | AWSTOT | \checkmark |
| | \times | \times \times | \rightarrow | | X |
| | | | 600 | \geq | |
| | AUSIA | WSET | AWA | | AWSON |
| X | X | X | X | X | |
| WISTER | NULT AT | WEITER | WATE | ATE TO A | |
| | | | 1 | / | |
| | X | X = X | × | | X |
| | alion & Testin | waa waa | ATTS | | WIST |
| Contin | en agent | \sim | \bigvee | \sim | |
| zation | WSCT E | \wedge | \wedge | \wedge | |
| Plep | | ADD Building A B Backhi Science & Technology P | ATATA | istrict Shenzhen Guang | doop China |
| World Stando Sta | Callion & Testing Group WSSCT 中标检销认证数份 Short * PT | | 605 E-mail: Fengbing Wange | | |
| | WI W P | 1 age 23 01 40 | | wember of t | he WSCT INC |
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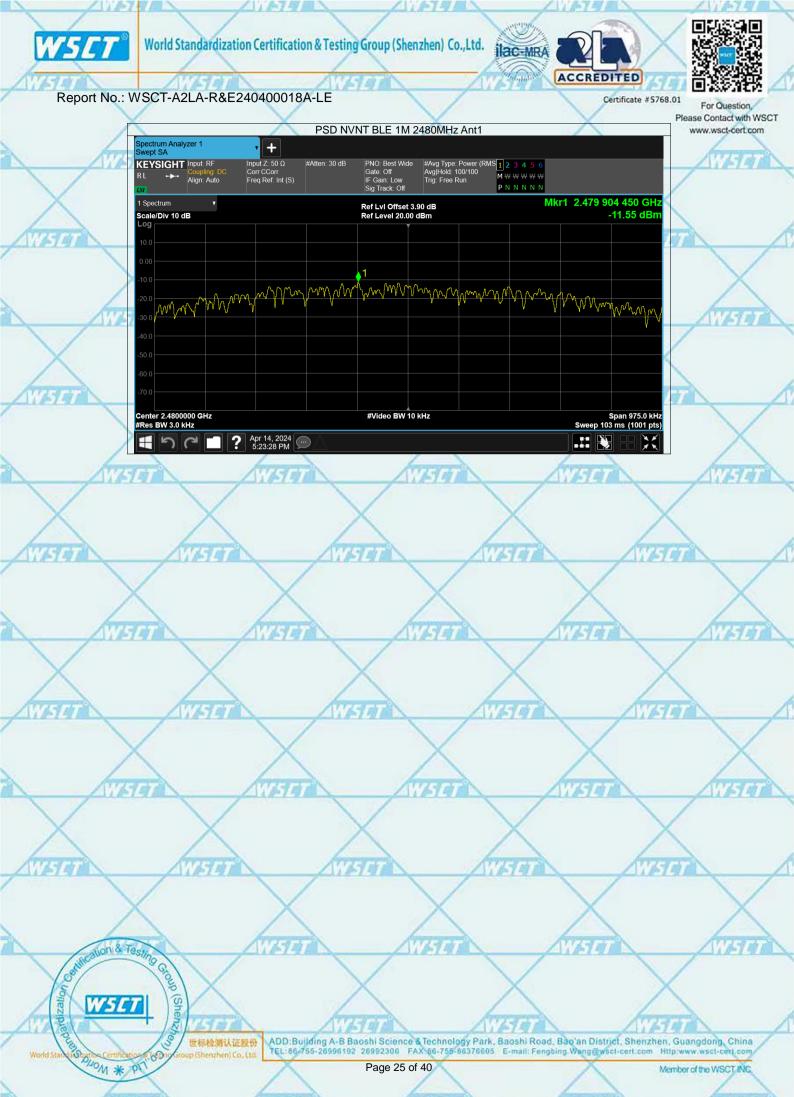




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6.6. Conducted Band Edge and Spurious Emission Measurement

| 1 | For Question, |
|-----|---------------------|
| Ple | ase Contact with WS |
| | www.wsct-cert.com |

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| AVISION AV | 6.6.1. Test Specification |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | KDB558074 |
| Limit: | In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). |
| Test Setup: | Spectrum Analyzer |
| Test Mode: | Refer to item 4.1 |
| Test Procedure: | The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. |
| Test Result: | PASS |

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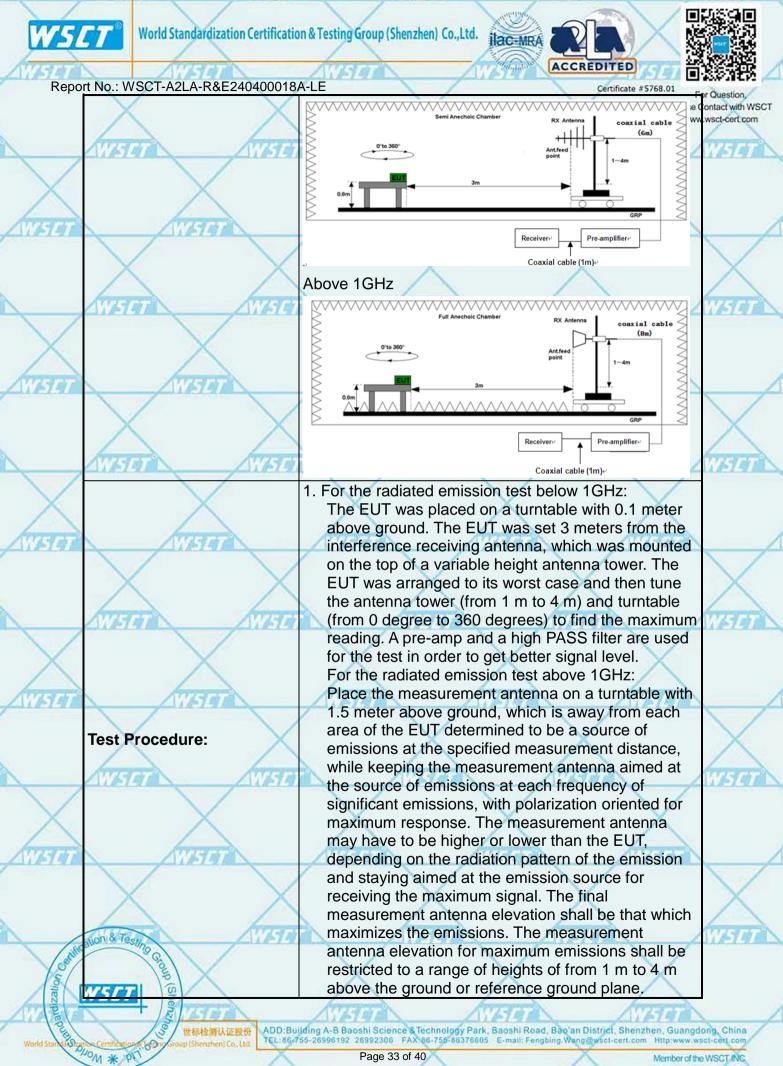
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6.7. Radiated Spurious Emission Measurement

| 7 | | 6.7.1. Test | Specificat | tion | ATH | | 4W-5L-1 |
|--------------|-----------------------|---------------------------|------------------------|---------------------------|-------------------|--|-------------|
| X | Test Requirement: | FCC Part15 | C Section | 15.209 | | X |] |
| SET | Test Method: | ANSI C63.10 |):2014 | ATTAT | | AURIT | |
| | Frequency Range: | 9 kHz to 25 (| GHz | | 1 | / | |
| | Measurement Distance: | 3 m | X | | X | | \times |
| | Antenna Polarization: | Horizontal & | Vertical | | ATT | | WSET |
| \checkmark | Operation mode: | Refer to item | 4.1 | V | | \sim | |
| | | Frequency 9kHz- 150kHz | Detector Quasi-peak | RBW 200Hz | VBW 1kHz | Remark | - |
| SLT | Receiver Setup: | 150kHz- 30MHz | Quasi-peak | 1 1 1 1 1 1 1 1 1 1 1 | 30kHz | Quasi-peak Value | |
| | XX | 30MHz-1GHz | Quasi-peak | | 300KHz | Quasi-peak Value | X |
| | ATTER ATTER | Above 1GHz | Peak Peak | 1MHz 1MHz | 3MHz 10Hz | | (ITTA A |
| 1 | | | | | frend at the day | | A FIRI |
| \times | \times | Frequen | су | Field Stre (microvolts | - | | |
| 1 | | 0.009-0.4 | 190 | 2400/F(H | | 300 | - |
| SET | WISET | 0.490-1.7 | | 24000/F(| KHz) | 30577 | |
| | | 1.705-3 | | 30 | | | |
| | XX | 30-88 88-216 | | <u>100</u> 150 | X | | X |
| | Limit: | 216-96 | | 200 | | | / \ |
| _ | ZWSET | Above 9 | | 500 | 11/19 | 3 | WSEI |
| / | | | | | | | |
| Х | X | | Field | d Strength | Measure | | |
| 1 | | Frequency | | volts/meter) | Distan (meter | | |
| SET | AVISION | A1414 | | 500 | (inieter | | |
| | | Above 1GH | | 5000 | 3 | Peak | |
| | Δ | For radiated | emissions | s below 30 | MHz | 2 | \square |
| 1 | AVERA | D | stance = 3m | | | Commuter | 17/5741 |
| X | X | + | | \frown | | Computer | |
| - | - | 1 | '(| С | Pre | Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value Measurement Distance (meters) 300 30 | |
| SET | Test setup: //s// | EUT | | \prod | | | 1 |
| | \vee \vee | | □ Turn table | | | | 1 |
| | | | | | - 너 | Receiver | \wedge |
| | Anti & Tacu | | Ground | d Plane | L | | 112.4.4 |
| Contin | and any c | 30MHz to 10 | Hz | | | 1 | 110-14 |
| 5 | | | 12 | X | | X | |
| ridizati | WSCT STOR | 1111 | | And and | | 10233 | |
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| | X | 2. Corrected Readin | g: Antenna Factor + Cable | |
| | | | amp Factor = Level | www.wsct-cert.com |
| | AUTOR AUT | | below 1GHz, If the emiss | |
| 17 | | | ured by the peak detector | |
| \sim | \sim | | plicable limit, the peak en | |
| \wedge | \sim | | rted. Otherwise, the emiss | |
| hurses | ATTIGAT A | ALL I A SHE ARE ARE. | I be repeated using the qu | Jasi-peak |
| | CIE IS | detector and repo | | |
| | \sim | | spectrum analyzer setting | |
| | \wedge | | le enough to fully capture | the |
| | And the | emission bein | ALL | (TTTTTT) |
| $\langle \rangle$ | | (2) Set RBW=100 | kHz for f < 1 GHz; VBW | ≥RBW; |
| \sim | | Sweep = auto | ; Detector function = peak | ; Trace = |
| \wedge | | max hold; | | \wedge |
| Anna | hand | (3) Set RBW = 1 | MHz, VBW= 3MHz for f | 1 GHz |
| AWSLI | | for peak meas | surement. | |
| | | For average mea | surement: VBW = 10 Hz, | when |
| | \wedge | duty cycle is no le | ess than 98 percent. VBW | / ≥ 1/T, |
| 6. | Anna Ann | when duty cycle i | is less than 98 percent wh | nere T is |
| $\langle \rangle$ | CIFIC DIF | the minimum tran | nsmission duration over w | hich the |
| \sim | | transmitter is on a | and is transmitting at its m | naximum |
| \wedge | \sim | power control lev | el for the tested mode of | operation. |
| Kara | Test mode: | Refer to section 4.1 | for details | 112900 |
| | Test results: | PASS | | |
| | X | X | X | |

Note: Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Attenuation factor + Cable loss Level $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB) Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Level $(dB\mu V)$ – Limits $(dB\mu V)$

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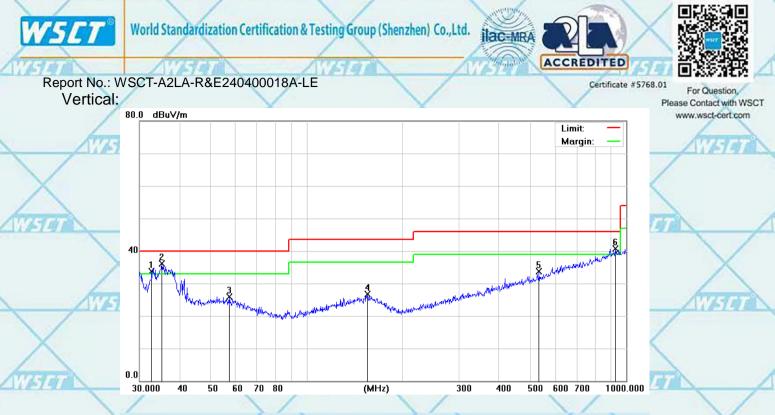
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|----|------|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---|
| > | No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | T | |
| 75 | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | _ |
| | 1 | 1 | 32.7486 | 35.26 | -1.63 | 33.63 | 40.00 | -6.37 | QP | 1 |
| | 2 | * 1 | 35.2512 | 37.36 | -1.35 | 36.01 | 40.00 | -3.99 | QP | |
| _ | 3 | | 57.3923 | 27.44 | -1.57 | 25.87 | 40.00 | -14.13 | QP | [|
| 1 | 4 | | 155.3644 | 26.52 | 0.25 | 26.77 | 43.50 | -16.73 | QP | |
| | 5 | 2 | 533.8321 | 27.76 | 5.90 | 33.66 | 46.00 | -12.34 | QP | |
| 15 | 6 | ! | 925.7563 | 27.18 | 13.51 | 40.69 | 46.00 | -5.31 | QP | _ |
| | | - | | | | | | | | |

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Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$

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| | \wedge | | \wedge | Above 10 | Hz | | \wedge | www |
|---|----------------|----------|------------|-------------|------------|----------|----------|--------|
| | Frag | | | Low cha | nnel: 2402 | 2MHz | | |
| 1 | Freq. (MHz) | Ant.Pol | Emission L | _evel(dBuV) | Limit 3m | (dBuV/m) | Ove | r(dB) |
| | (IVI⊓∠) | H/V | PK | AV | PK | AV | PK | AV |
| | 4804 | V | 64.33 | 40.51 | 74 | 54 | -9.67 | -13.49 |
| k | 7206 | V | 56.57 | 40.85 | 74 📈 | 54 | -17.43 | -13.15 |
| 1 | 4804 | H | 58.24 | 40.61 | 74 | 54 | -15.76 | -13.39 |
| | 7206 | Н | 63.05 | 47.05 | 74 | 54 | -10.95 | -6.95 |
| | X | | X | | X | | X | |

| Frog | Middle channel: 2440MHz | | | | | | | | |
|----------------|-------------------------|------------|-------------------------------------|----|----------|--------|--------|--|--|
| Freq. (MHz) | Ant.Pol | Emission I | Emission Level(dBuV) Limit 3m(dBuV) | | (dBuV/m) | Ove | r(dB) | | |
| | H/V | PK | AV | PK | AV | PK | AV | | |
| 4880 | V | 56.54 | 41.10 | 74 | 54 | -17.46 | -12.90 | | |
| 7320 | V | 59.83 | 40.87 | 74 | 54 | -14.17 | -13.13 | | |
| 4880 | WSH7 N | 63.87 | 39.81 | 74 | 54 | -10.13 | -14.19 | | |
| 7320 | Н | 61.84 | 45.84 | 74 | 54 | -12.16 | -8.16 | | |
| | | | | V/ | | | | | |

| Frog | | High channel: 2480 MHz | | | | | | | | |
|----------------|---------|------------------------|-------------|----------|----------|--------|--------|--|--|--|
| Freq. (MHz) | Ant.Pol | Emission l | _evel(dBuV) | Limit 3m | (dBuV/m) | Ove | r(dB) | | | |
| | H/V | PK | AV | PK | AV | PK | AV | | | |
| 4960 | V | 64.35 | 39.56 | 74 | 54 | -9.65 | -14.44 | | | |
| 7440 | V | 62.41 | 39.17 | 74 | 54 | -11.59 | -14.83 | | | |
| 4960 | 18517 | 62.93 | 40.99 | 74 | 54 | -11.07 | -13.01 | | | |
| 7440 | H | 59.51 | 43.51 | 74 | 54 | -14.49 | -10.49 | | | |

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- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- 2. Emission Level= Reading Level+Probe Factor +Cable Loss.
- 3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Restricted Bands Requirements

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| Frequency | Reading | Correct Factor | Emission Level | Limit | Margin | Polar | Detector |
|-----------|----------|-------------------|-------------------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| 1 | AUST | | Low Cha | nnel | AUST | A. | AUZ |
| 2390 | 61.17 | -8.76 | 52.41 | 74 | 21.59 | H | PK |
| 2390 | 54.07 | -8.76 | 45.31 | 54 | 8.69 | нХ | AV |
| 2390 | 62.49 | -8.73 | 53.76 | 74 | 20.24 | V | PK |
| 2390 | 57.91 | -8.73 | 49.18 | 54 | 4.82 | VPT | AV |
| | \vee | | High Cha | nnel | | | |
| 2483.5 | 64.49 | -8.76 | 55.73 | 74 | 18.27 | Н | PK |
| 2483.5 | 53.89 | -8.76 | 45.13 | 54 | 8.87 | Н | AV |
| 2483.5 | 63.00 | -8.73 | 54.27 | 74 | 19.73 | V | PK |
| 2483.5 | 57.88 | -8.73 | 49.15 | 54 | 4.85 | VX | AV |

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