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TEST REPORT

FCC ID: 2ADYY-T16MAPRO Product: Laptop Computer Model No.: T16MA Pro Trade Mark: TECNO Report No.: WSCT-A2LA-R&E240300015A-BT Issued Date: 16 April 2024

Issued for:

TECNO MOBILE 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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1. Test Certification





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| | vww.wsct |
|--------------------------|--|
| Product | Laptop Computer |
| Model No.: | T16MA Pro |
| Additional Model: | TECNO MISITA |
| Applicant: | TECNO MOBILE LIMITED |
| Address: | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| Manufacturer: | TECNO MOBILE LIMITED |
| Address: | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| Date of Test: | 02 April 2024 to 16 April 2024 |
| Applicable Standards: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 |
| The change and | in the base of the lateral of the line time of the time of Testing |

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.

har Xiar Chand Tested By: Checked By: (Chen Xu) (Wang Xiang) 8 7 1474 Approved By: Date: (Liu Fuxin) 'pi ation & Testin WSEI NSEI ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road,Baoan District, Shenzhen, Guangdong, China TEL:0086-755-26996192 26996053 FAX:0086-755-86376605 E-mail:fengbing.wang@wsci-cert.com Http://www.wsci-cert.com 世标检测认证股份 ip (Shenzhen) Co., Ltd. ultration Certification & Istor Member of the WSCT INC.



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2. Test Result Summary

| | AULTRA AULTRA | TTA ATTACK | AULIAN | ATTATA A |
|---|-------------------------------------|-------------------------------------|--------|---|
| 7 | Requirement | CFR 47 Section | Result | A A A C A A A A A A A A A A A A A A A A |
| | Antenna Requirement | §15.203/§15.247 (c) | PASS | |
| | AC Power Line Conducted Emission | §15.207 | PASS | \checkmark |
| N | Conducted Peak Output Power | §15.247 (b)(1) §2.1046 | PASS | WISTER |
| 2 | 20dB Occupied Bandwidth | §15.247 (a)(1) §2.1049 | PASS | |
| | Carrier Frequencies Separation | §15.247 (a)(1) | PASS | \mathbf{X} |
| | Hopping Channel Number | §15.247 (a)(1) | PASS | WETT |
| 2 | Dwell Time | §15.247 (a)(1) | PASS | |
| 1 | Radiated Emission | §15.205/§15.209 §2.1053, §2.1057 | PASS | |
| | Band Edge | §15.247(d) §2.1051, §2.1057 | PASS | \mathbf{X} |
| | | | | A TRIM |

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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 Descripti | on Pre | www.wsct-cert.com |
|----|--|--|-------------------|
| _ | Product Name: | Laptop Computer WSD7 WSD7 | Arrian |
| / | Model : | T16MA Pro | |
| | Trade Mark: | TECNO | |
| 21 | Operation Frequency: | 2402MHz~2480MHz | \mathbf{X} |
| | Channel Separation: | 1MHz | |
| 2 | Number of Channel: | 79 | |
| | Modulation Type: | GFSK, π/4-DQPSK, 8-DPSK | |
| 7 | Modulation Technology: | FHSS WEIT | |
| | Antenna Type: | Integral Antenna | X |
| | Antenna Gain: | 2.40dBi | 1270 |
| | Operating Voltage: | Adapter1: A879-200500C-US1 Input: 100-240V~50/60Hz 2.5A Output:PD:5V3A /9V3A /12V3A/15V3.0A /20V5A PPS:3.3-11V5A 55W Max 3.3-21V5A 100W Max | |
| / | | Rechargeable Li-ion Battery: N160 Nominal Voltage: 11.61V Rated Capacity: 8612mAh Rated Energy:99.99Wh Limited Charge Voltage: 13.35V | THE |
| | Remark: | N/A. | |
| (| Configuration differences | | ~/ |
| | Configuration/ Processor | Camera | X |
| | T16MA Pro (i5) | KANC792 | WISLO |
| 1 | T16MA Pro (i7) | CK2B2B | |
| | | h configurations have been tested, and the T16MA Pro t, which is the main test model reported | |
| | Contraction of the second seco | Approximation Approximation Approximation Approximation and the Ap | CO. |





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| Operation Frequency e | ach of channel for GF | FSK, π/4-DQPSK, 8DPSK |
|------------------------------|-----------------------|-----------------------|
| | | |

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0 | 2402MHz | 20 | 2422MHz | 40 | 2442MHz | 60 | 2462MHz |
| 1 | 2403MHz | 21 | 2423MHz | 41 | 2443MHz | 61 | 2463MHz |
| | AWSET | | Austr | | Austri | | ALTERA |
| 10 | 2412MHz | 30 | 2432MHz | 50 | 2452MHz | 70 | 2472MHz |
| 11 | 2413MHz | 31 | 2433MHz | 51 | 2453MHz | 71 | 2473MHz |
| <u> </u> | | | | / `` | | <i></i> | · · · · · |
| 18 | 2420MHz | 38 | 2440MHz | 58 | 2460MHz | 78 | 2480MHz |
| 19 | 2421MHz | 39 | 2441MHz | 59 | 2461MHz | | - |
| Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK modulation mode. | | | | | | | |



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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 with Fully-charged battery

The sample was placed 0.8m & 1.5m for the measurement below & 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 |
|-----------|------------------|------------|--------|------------|
| Adapter | A879-200500C-US1 | 1 | 1 | TECNO |

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, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, 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 32. 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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Report No.: WSCT-A2LA-R&E240300015A-BT 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 %.

| | No. | Item | MU |
|-----|-----|---|---------|
| 200 | ٦ | Duty Cycle and Tx-Sequence and Tx-Gap | ±1% |
| | 2 | Dwell Time and Minimum Frequency Occupation | ±1.2% |
| | 3 | Medium Utilisation Factor | ±1.3% |
| 7 | 4 | Occupied Channel Bandwidth | ±2.4% |
| | 5 | Transmitter Unwanted Emission in the out-of Band | ±1.3% |
| 2 | 6 | Transmitter Unwanted Emissions in the Spurious Domain | ±2.5% |
| | 7 | Receiver Spurious Emissions | ±2.5% |
| | 8 | Conducted Emission Test | ±3.2dB |
| 7 | 9 | RF power, conducted | ±0.16dB |
| | 10 | Spurious emissions, conducted | ±0.21dB |
| 1 | 11 | All emissions, radiated(<1GHz) | ±4.7dB |
| | 12 | All emissions, radiated(>1GHz) | ±4.7dB |
| | 13 | Temperature | ±0.5°C |
| 1 | 14 | Humidity | ±2.0% |



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5.4. MEASUREMENT INSTRUMENTS

| 5.4. WEASU | \wedge | www.ws | ct-cert.com | | | |
|--|---------------------------|------------------|------------------|---------------------|---------------------|-----------|
| NAME OF EQUIPMENT | MANUFACTURER | MODEL | SERIAL NUMBER | Calibration Date | Calibration Due. | डान |
| Test software | < | EZ-EMC | CON-03A | - 3 | X | |
| Test software | - / | MTS8310 | WISH | - / | ATRA | |
| EMI Test Receiver | R&S | ESCI | 100005 | 11/05/2023 | 11/04/2024 | / |
| LISN | AFJ | LS16 | 16010222119 | 11/05/2023 | 11/04/2024 | $^{\sim}$ |
| LISN(EUT) | Mestec | AN3016 | 04/10040 | 11/05/2023 | 11/04/2024 | 501 |
| Universal Radio Communication Tester | R&S | CMU 200 | 1100.0008.02 | 11/05/2023 | 11/04/2024 | |
| 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 | $^{\sim}$ |
| Pre Amplifier | H.P. | HP8447E | 2945A02715 | 11/05/2023 | 11/04/2024 | 5141 |
| Pre-Amplifier | CDSI | PAP-1G18-38 | | 11/05/2023 | 11/04/2024 | |
| Bi-log Antenna | SCHWARZBECK | VULB9168 | 01488 | 11/05/2023 | 11/04/2024 | |
| 9*6*6 Anechoic | G - 1 | ISET | WISET | 11/05/2023 | 11/04/2024 | |
| Horn Antenna | COMPLIANCE ENGINEERING | CE18000 | | 11/05/2023 | 11/04/2024 | \times |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-631 | 11/05/2023 | 11/04/2024 | |
| Cable | TIME MICROWAVE | LMR-400 | N-TYPE04 | 11/05/2023 | 11/04/2024 | 6141 |
| 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 | N/A | N/A | N.C.R | N.C.R | |
| RF cable | Murata | MXHQ87WA300 0 | - | 11/05/2023 | 11/04/2024 | Х |
| Loop Antenna | EMCO | 6502 | 00042960 | 11/05/2023 | 11/04/2024 | 15[1] |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | 1123 | 11/05/2023 | 11/04/2024 | |
| Power meter | Anritsu | ML2487A | 6K00003613 | 11/05/2023 | 11/04/2024 | |
| Power sensor | Anritsu | MX248XD | ANSIET | 11/05/2023 | 11/04/2024 | |
| Spectrum Analyzer | Keysight | N9010B | MY60241089 | 11/05/2023 | 11/04/2024 | ~ |
| ~ | \wedge | | Sec | | | ~ |







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6. Test Results and Measurement Data

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 Integral Antenna. it meets the standards, and the best case gain of the antenna is 2.40dBi.





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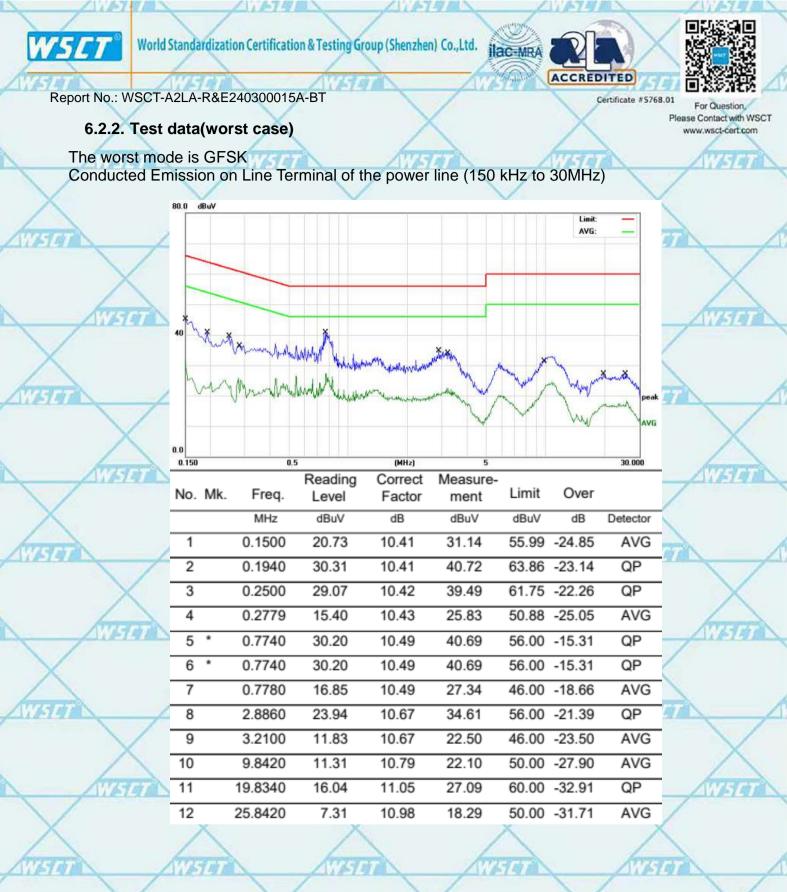


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Conducted Emission 6.2.

| Limits: (MHz) Quasi-peak 0.15-0.5 66 to 56* 0.5-5 56 5-30 60 Reference Plane 40cm 80cm LISN | e | 6.2.1. Test Specification | | | |
|---|-----|---------------------------|--|--|---|
| Frequency Range: 150 kHz to 30 MHz Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep tim Limits: Frequency range Limit 0.15-0.5 66 to 56* 0.5-5 0.5-5 56 5-30 0.5-5 56 5-30 150 kHz to 30 MHz Reference Plane Reference Plane Image: EU.T AC power Image: EU.T AC power Image: EU.T AC power Image: EU.T EU.T Refer to item 4.1 1. The E.U.T is connected to an adapt Impedance stabilization network provides a 500hm/50uH coupling in measuring equipment. Test Procedure: 2. The peripheral devices are also compower through a LISN that provide coupling impedance with 500hm terrefer to the block diagram of the photographs). Both sides of A.C. line are check conducted interference. In order to fermission, the relative positions of equitient interface cables must be changed ANSI C63.10:2014 on conducted measuring equipment to fermission, the relative positions of equitient interface cables must be changed and the photographs). | ŀ | Test Requirement: | FCC Part15 C Section | 15.207 | X |
| Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep tim Frequency range Limit Limits: Frequency range Limit 0.15-0.5 66 to 56* 0.5-5 56 5-30 60 Reference Plane Utility EU.T Cower Filter Filter Filter Remark EU.T Eugenment Under Test ENI Reserver EUT Equipment Under Test ENI ENI Reserver EUT Equipment Under Test ENI Enni Reserver Eust table/Insulation plane Feringedance Stablezion Network Test Mode: Refer to item 4.1 1. The E.U.T is connected to an adapting provides a 500hm/50uH coupling in measuring equipment. Test Procedure: 2. The peripheral devices are also compower through a LISN that provide coupling impedance with 500hm terr refer to the block diagram of the photographs). Both sides of A.C. line are check conducted interference. In order to fermission, the relative positions of equithe interface cables must be changed and the photographs). Both sides of A.C. line are check conducted interference. In order to fermission, the relative positions of equithe interface cables must be changed and the photographs). <th></th> <th>Test Method:</th> <th>ANSI C63.10:2014</th> <th>AVISION</th> <th>AVISIT .</th> | | Test Method: | ANSI C63.10:2014 | AVISION | AVISIT . |
| Limits: Frequency range Limit 0.15-0.5 66 to 56* 0.5-5 56 5-30 60 Reference Plane Image: Colspan="2">Image: Colspan="2" Test Setup: Image: Colspan="2" Image: Colspan="2" Test Setup: Image: Colspan="2" Image: Colspan="2" Test Mode: Refer to item 4.1 1. The E.U.T is connected to an adapting impedance stabilization network provides a 50ohm/50uH coupling impedance stabilization network provides a 50ohm/50uH coupling impedance with 50ohm terr refer to the block diagram of the photographs). 3. Both sides of A.C. line are check conducted interference. In order to fer mission, the relative positions of equ the interface cables must be changee ANSI C63.10:2014 on conducted me | | Frequency Range: | 150 kHz to 30 MHz | | / |
| Limits: (MHz) Quasi-peak 0.15-0.5 66 to 56* 0.5-5 56 5-30 60 Reference Plane Image: E.U.T Test Setup: Test table/Insulation plane Remark: E.U.T E.U.T E.U.T E.U.T Fermark: EUT Equipment Under Test LISW Line Impedence Stabilization Network Test table/Insulation plane Test Mode: Test Procedure: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2 | I | Receiver setup: | RBW=9 kHz, VBW=30 | kHz, Sweep time | =auto |
| Reference Plane Image: Colspan="2">Reference Plane Image: Colspan="2">Image: Colspan="2" Image: Colspan="2 | | Limits: | (MHz) 0.15-0.5 0.5-5 | 66 to 56* 56 | Average 56 to 46* 46 |
| Test Setup: Image: Constrained in the provides a 500 hm/500 hm term refer to the block diagram of the photographs). Test Procedure: States of A.C. line are check conducted interface cables must be changed ANSI C63.10:2014 on conducted me | | | 5-30 | 60 | 50 |
| Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN Line impedence Stabilization Network Test Mode: Test Mode: Refer to item 4.1 1. The E.U.T is connected to an adaptiment under test table height=0.8m impedance stabilization network provides a 500hm/50uH coupling impedance stabilization network provides a 500hm/50uH coupling impedance stabilization network provides a 500hm/50uH coupling impedance with 500hm terr power through a LISN that provide coupling impedance with 500hm terr refer to the block diagram of the photographs). 3. Both sides of A.C. line are check conducted interference. In order to fermission, the relative positions of equitient interface cables must be changed ANSI C63.10:2014 on conducted metal | 1 | Test Setup: | | ^{80cm} Filter | — AC power |
| 1. The E.U.T is connected to an adaptimpedance stabilization network provides a 50ohm/50uH coupling in measuring equipment. Test Procedure: 1. The E.U.T is connected to an adaptimpedance stabilization network provides a 50ohm/50uH coupling in measuring equipment. 2. The peripheral devices are also connormal power through a LISN that provide coupling impedance with 50ohm terriefer to the block diagram of the photographs). 3. Both sides of A.C. line are check conducted interference. In order to femission, the relative positions of equipment the interface cables must be changed ANSI C63.10:2014 on conducted meters. | ~ | | Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m | twork | |
| Test Procedure: Test Procedure: impedance stabilization network provides a 50ohm/50uH coupling in measuring equipment. The peripheral devices are also compower through a LISN that provide coupling impedance with 50ohm terr refer to the block diagram of the photographs). Both sides of A.C. line are check conducted interference. In order to femission, the relative positions of equipment the interface cables must be changed ANSI C63.10:2014 on conducted measuring equipment. | - | Test Mode: | | | |
| the interface cables must be changed ANSI C63.10:2014 on conducted me | | | impedance stabilize provides a 50ohm/5 measuring equipmer 2. The peripheral device power through a Llicoupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interference | ation network OuH coupling im nt. es are also conne SN that provides with 50ohm term diagram of the line are checkence. In order to fir | (L.I.S.N.). This pedance for the ected to the main a 50ohm/50uH nination. (Please test setup and of for maximum of the maximum |
| | 1 | Kon & Terry | the interface cables | must be changed | according to |
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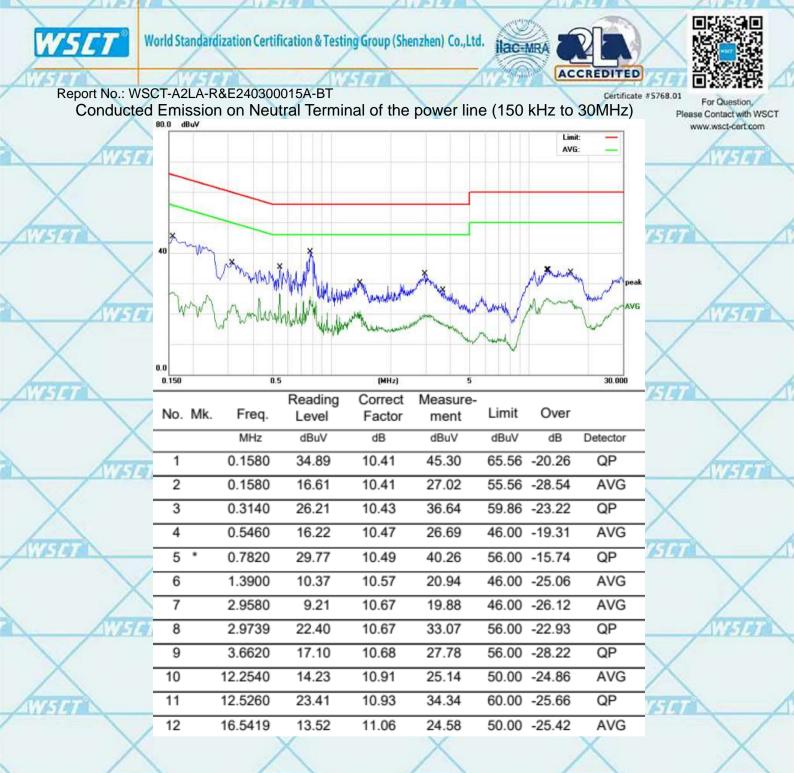
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Note1:

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- Freq. = Emission frequency in MHz
 - Reading level ($dB\mu V$) = Receiver reading
 - Corr. Factor (dB) = LISN factor + Cable loss
 - Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)
 - $Limit (dB\mu V) = Limit stated in standard$
 - Margin (dB) = Measurement (dB μ V) Limits (dB μ V)
 - Q.P. =Quasi-Peak AVG =average

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* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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6.3. Conducted Output Power

6.3.1. Test Specification

| | Test Requirement: | FCC Part15 C Section 15.247 (b)(3) | |
|-----|-------------------|---|---|
| 100 | Test Method: | ANSI C63.10:2014 | |
| | Limit: | Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts. | |
| | Test Setup: | Spectrum Analyzer | |
| Z | Test Mode: | Transmitting mode with modulation | |
| N N | Test Procedure: | Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. | |
| | Test Result: | PASS | 1 |
| | | | |

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6.3.2. Test Data

| GFSK mode | | | |
|--------------|----------------------------|-------------|--------|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 8.10 | 20.97 | PASS |
| Middle | 8.28 | 20.97 | PASS |
| Highest | 7.58 | 20.97 | PASS |

| Pi/4DQPSK mode | | | |
|----------------|----------------------------|-------------|--------|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 7.26 | 20.97 | PASS 7 |
| Middle | 7.46 | 20.97 | PASS |
| Highest | 6.73 | 20.97 | PASS |
| ATATA | AWAS AN AV | | 1-14 |

| 8DPSK mode | | | |
|--------------|----------------------------|-------------|--------|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 7.50 | 20.97 | PASS |
| Middle | 7.56 | 20.97 | PASS |
| Highest | 6.98 | 20.97 | PASS |

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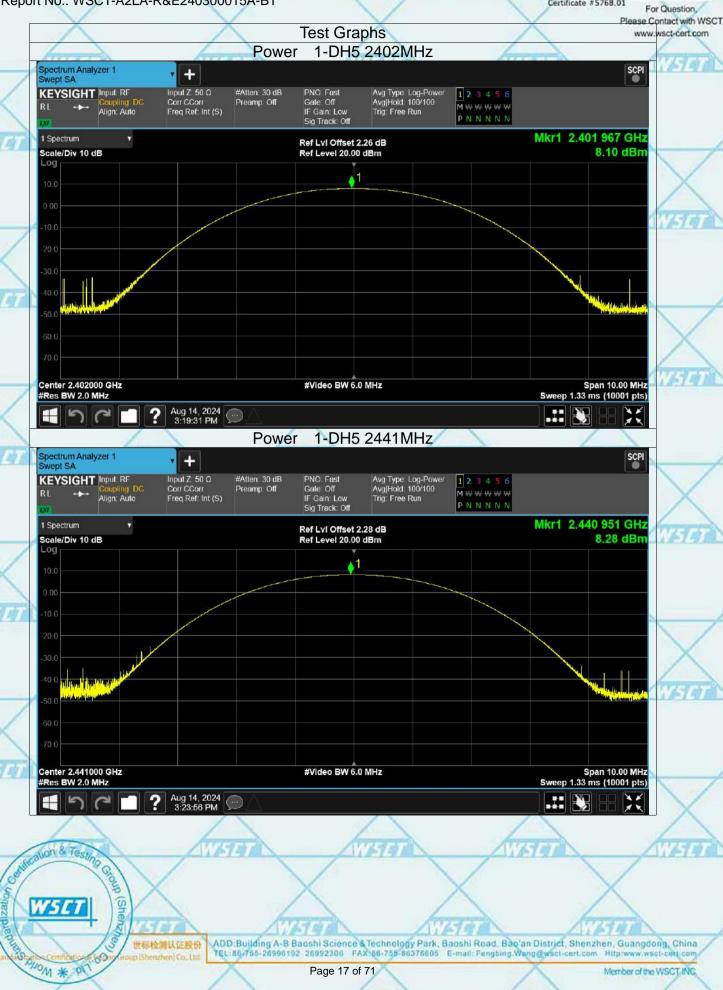
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Mkr1 2.479 981 GHz

Span 10.00 MHz Sweep 1.33 ms (10001 pts)

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7.58 dBm

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7.46 dBm

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6.73 dBm

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Span 10.00 MHz

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7.56 dBm

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Span 10.00 MHz

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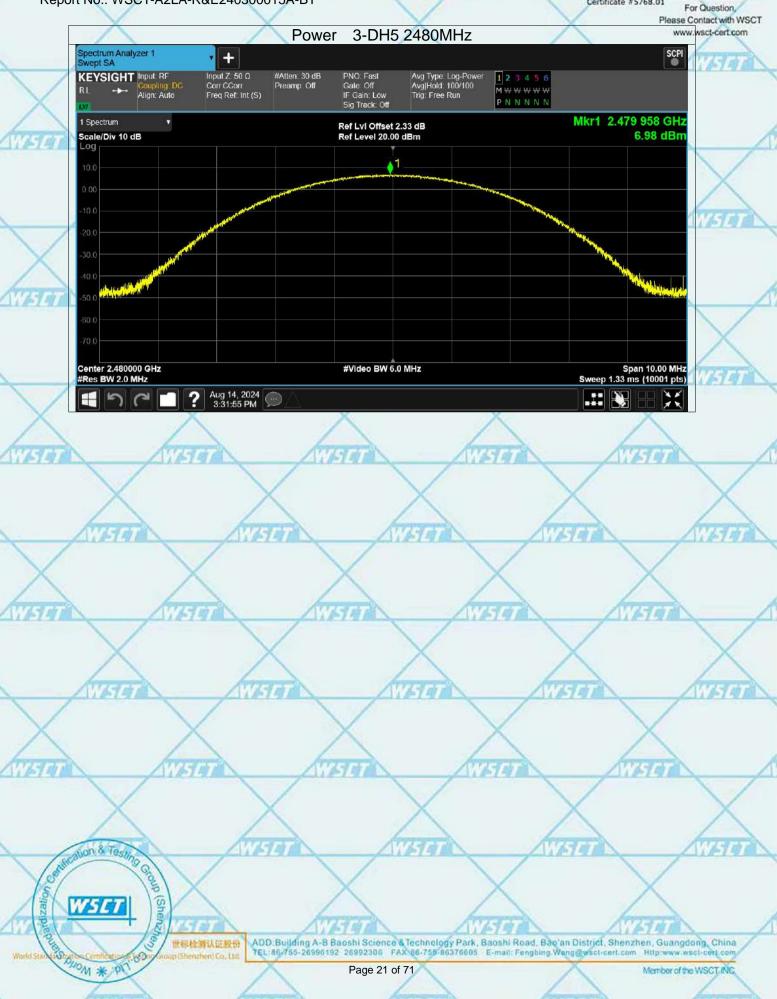


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6.4. 20dB Occupy Bandwidth

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6.4.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
|-------------------|---|
| Test Method: | ANSI C63.10:2014 |
| Limit: | N/A |
| Test Setup: | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | The testing follows ANSI C63.10:2014 Measurement Guidelines. 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. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤ RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. |
| Test Result: | PASS |
| X | X X X |

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| <i>.</i> | | | | | |
|--------------|--------------|------------------------------|-----------|-------|------------|
| Test shannel | | -20dB Occupy Bandwidth (MHz) | | | |
| | Test channel | GFSK | π/4-DQPSK | 8DPSK | Conclusion |
| | Lowest | 0.846 | 1.335 | 1.309 | PASS |
| _ | Middle | 0.843 | 1.312 | 1.301 | PASS |
| 1 | Highest | 0.816 | 1.324 | 1.319 | PASS |
| 1 | | ~ | ~ | | |

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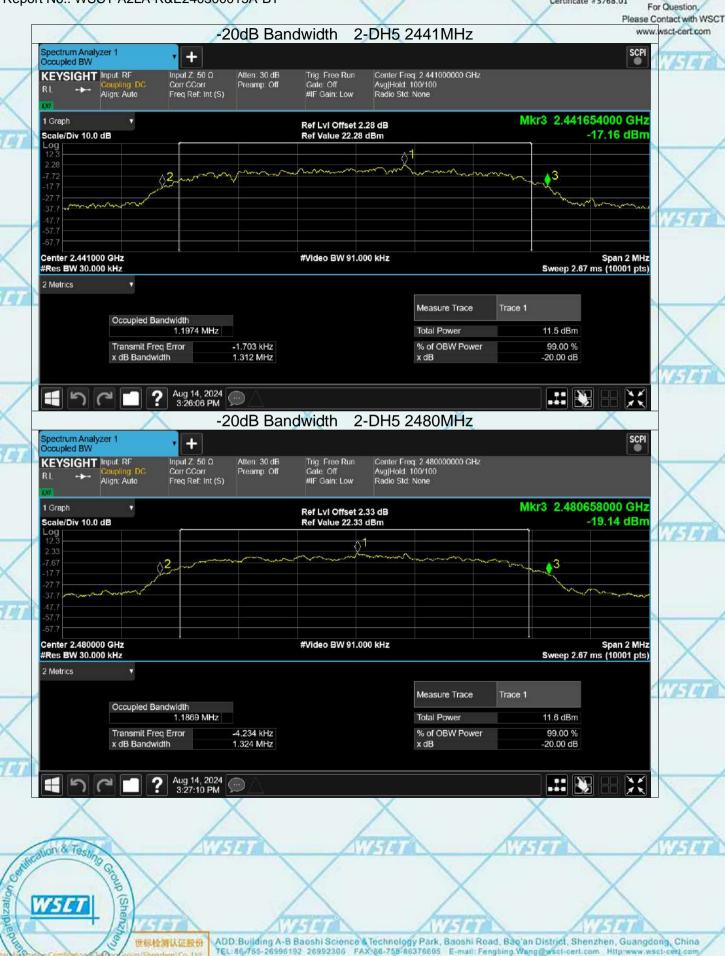
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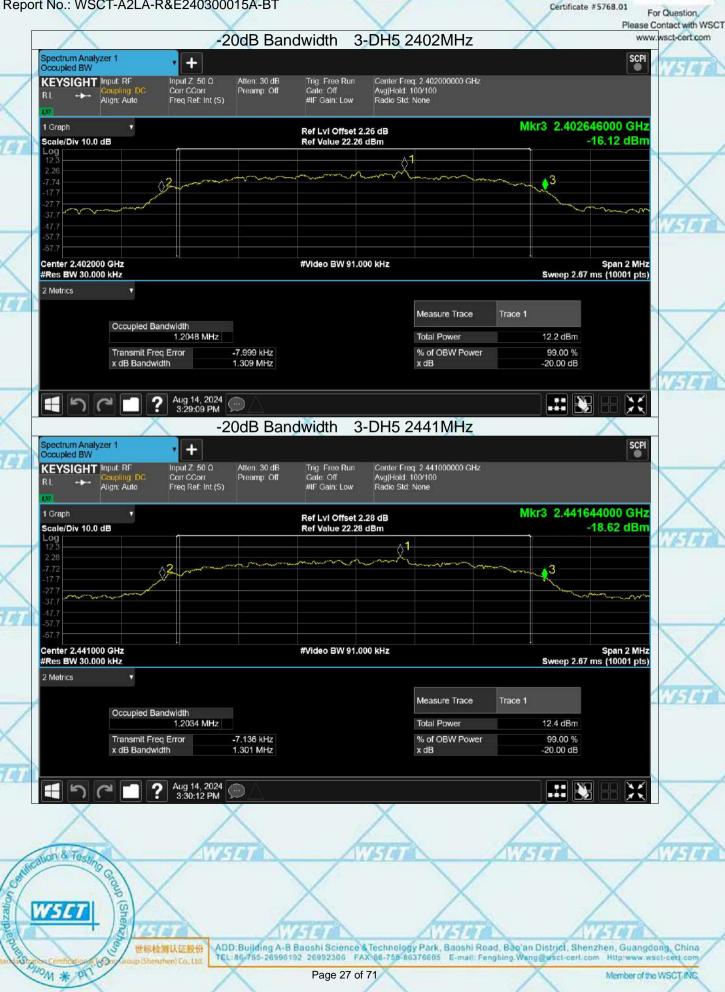


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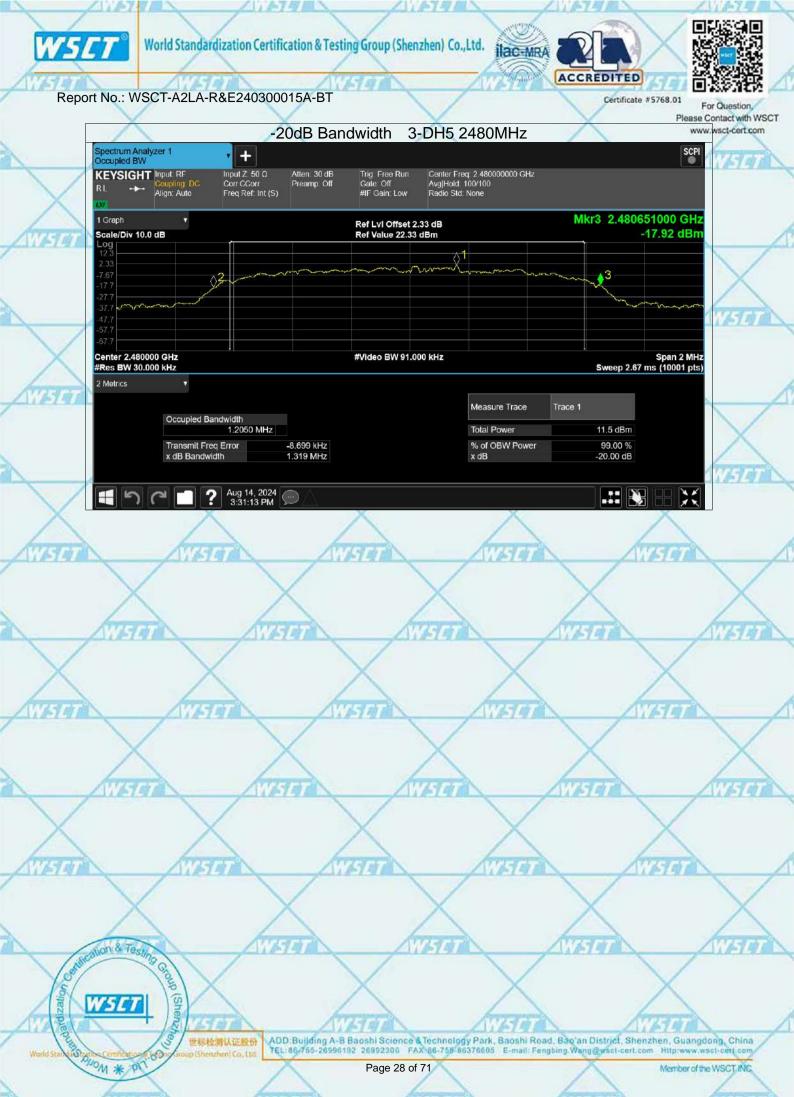




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6.5. Carrier Frequencies Separation

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| 6.5.1. Test Specification | TATA AVISIAN AVISIAN |
|---------------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.10:2014 |
| Limit: | Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater. |
| Test Setup: | Spectrum Analyzer EUT |
| Test Mode: | Hopping mode |
| Test Procedure: | The testing follows ANSI C63.10:2014 Measurement Guidelines. 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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report. |
| Test Result: | PASS |

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6.5.2. Test data

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| GFSK mode | | | |
|--------------|---|-------------|--------|
| Test channel | Carrier Frequencies Separation (MHz) | Limit (MHz) | Result |
| Lowest | 0.854 | 0.564 | PASS |
| Middle | 1.000 | 0.562 | PASS |
| Highest | 1.150 | 0.544 | PASS |
| | | | |

| Pi/4 DQPSK mode | | | | |
|-----------------------------------|---|--|--|--|
| ier Frequencies paration (MHz) | Limit (MHz) | Result | | |
| 1.320 | 0.890 | PASS | | |
| 0.994 | 0.875 | PASS | | |
| 0.852 | 0.883 | PASS | | |
| | ier Frequencies baration (MHz) 1.320 0.994 | ier Frequencies Daration (MHz)Limit (MHz)1.3200.8900.9940.875 | | |

| 8DPSK mode | | | ode | |
|------------|--------------|---|-------------|--------|
| No. | Test channel | Carrier Frequencies Separation (MHz) | Limit (MHz) | Result |
| | Lowest | 1.002 | 0.873 | PASS |
| | Middle | 1.134 | 0.867 | PASS |
| 2 | Highest | 0.998 | 0.879 | PASS |





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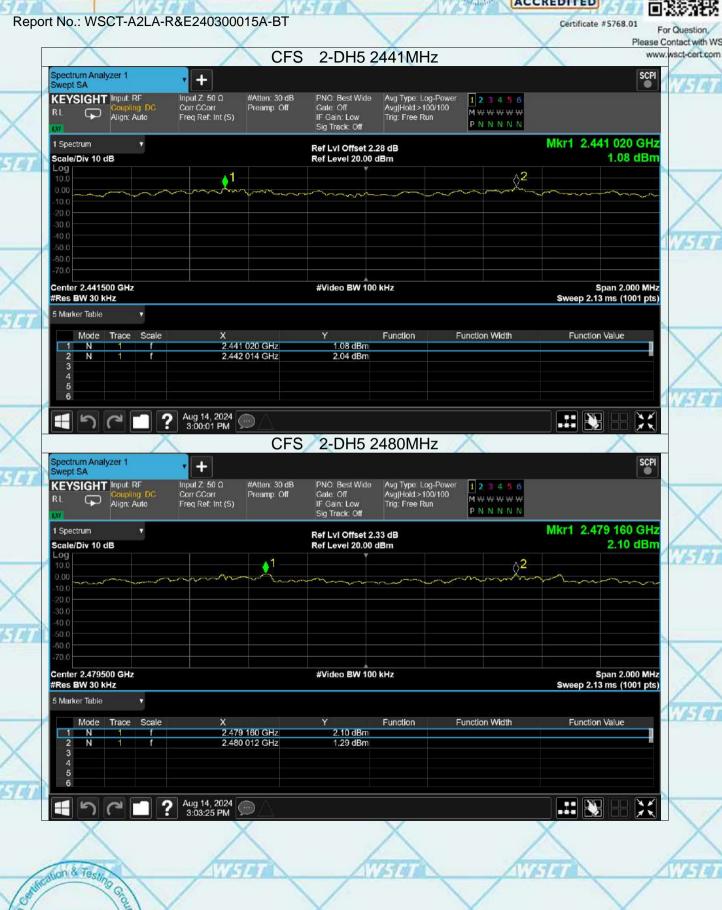


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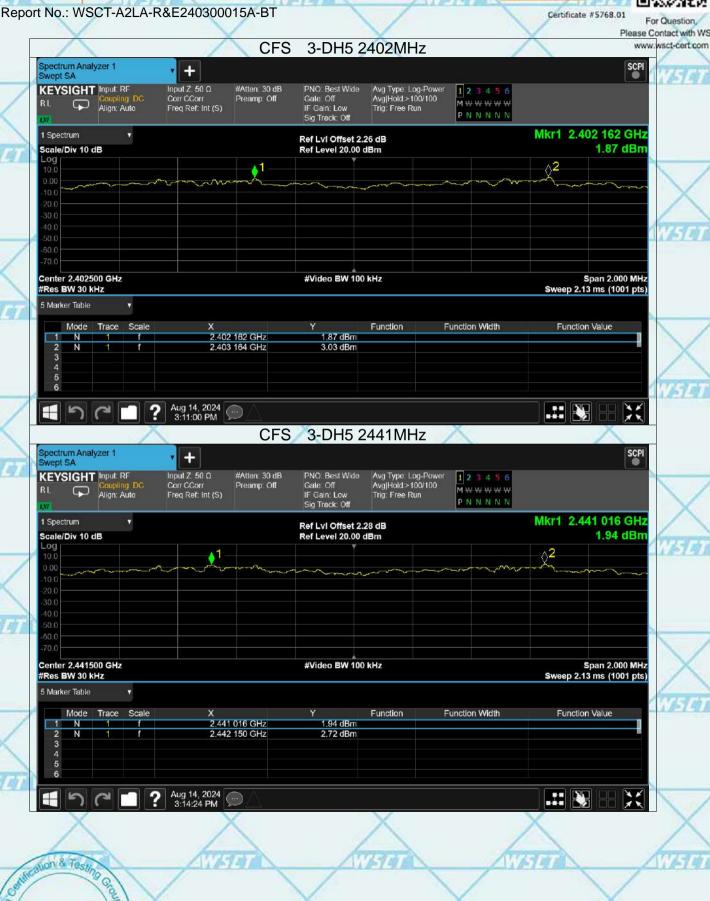


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3-DH5 2480MHz





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Spectrum Analyzer 1 Swept SA SCPI + Input Z: 50 Ω Corr CCorr PNO: Best Wide Gate: Off #Atten: 30 dB Preamp Off Avg Type: Log-Power Avg|Hold >100/100 Trig: Free Run KEYSIGHT Input RF 1 2 3 4 5 6 MWWWWW Align: Auto IF Gain: Low Sig Track: Off Freq Ref: Int (S) PNNNNN 1 Spectrum Mkr1 2.479 164 GHz Ref LvI Offset 2.33 dB Ref Level 20.00 dBm 7 2.65 dBm Scale/Div 10 dB 1 ⊘2 60.0 Span 2.000 MHz Sweep 2.13 ms (1001 pts) Center 2.479500 GHz #Res BW 30 kHz #Video BW 100 kHz 5 Marker Table Function Value Scale Function Function Width Mode Trace X 2.479 164 GHz 2.480 162 GHz 2.65 dBm N 1.20 dBm 2 3 4 5 6 Aug 14, 2024 3:17:48 PM ** 5 ? (···) 610 Contration & Test toup. zatio (Shenz) WSE7 ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao an District, Shenzhen, Guangdong, China TEL:85/755-26996192 26992306 FAX:86-755-86376605 E-mail: Fengbing Wang@wsci-cert.com Http://www.wsci-cert.com 世际检测认证股份 S DUOM * PT 69 Page 35 of 71 Member of the WSCT.INC



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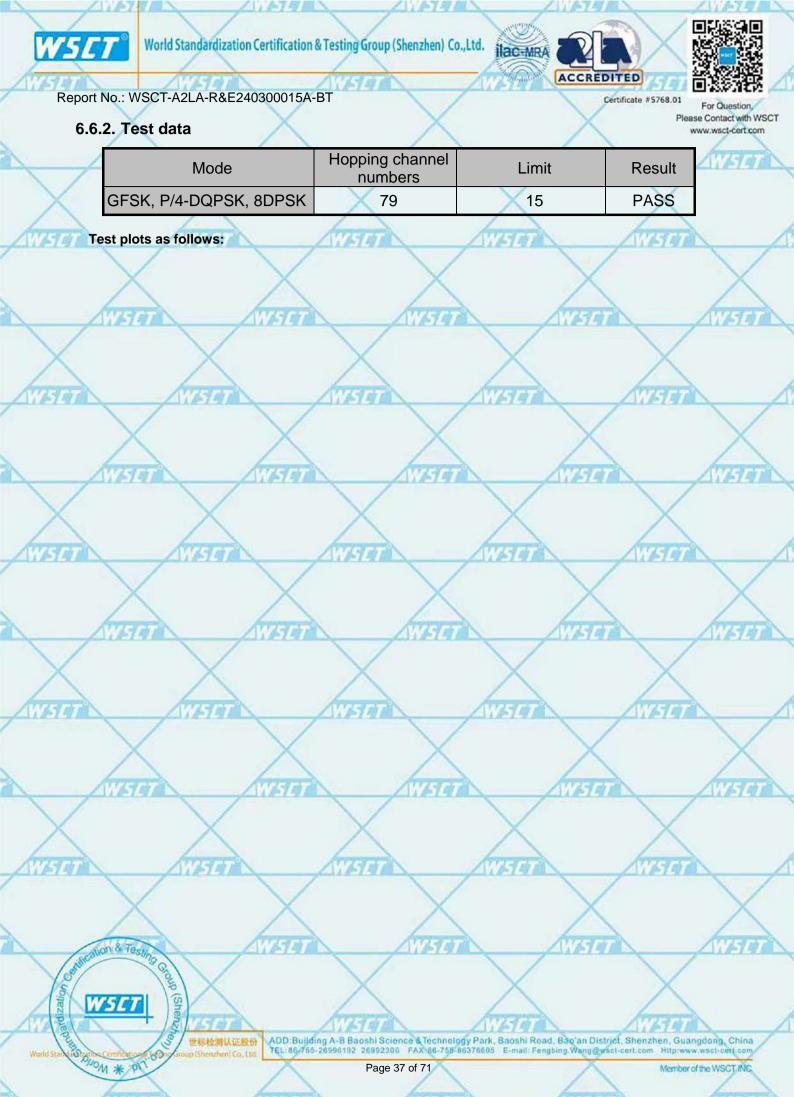
6.6. Hopping Channel Number

6.6.1. Test Specification

| 2 | Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
|-------------------------------|-------------------|---|
| | Test Method: | ANSI C63.10:2014 |
| | Limit: | Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. |
| | Test Setup: | Spectrum Analyzer |
| | Test Mode: | Hopping mode |
| Test Mode: Test Procedure: | | The testing follows ANSI C63.10:2014 Measurement Guidelines. 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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report. |
| | Test Result: | PASS |
| | Aller | |

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6.7. Dwell Time

6.7.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
|-------------------|--|
| Test Method: | ANSI C63.10:2014 |
| Limit: | The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. |
| Test Setup: | Spectrum Analyzer EUT |
| Test Mode: | Hopping mode |
| Test Procedure: | The testing follows ANSI C63.10:2014 Measurement Guidelines. 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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. |
| Test Result: | 6. Measure and record the results in the test report. PASS |
| ATTACK ATTA | ATTACK MILITAR |

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6.7.2. Test Data

| Mode | Frequency | Pulse Time | Total Dwell Time | Burst | Period Time | Limit | Verdict |
|-------|-----------|------------|------------------|-------|-------------|-------|---------|
| | (MHz) | (ms) | (ms) | Count | (ms) | (ms) | |
| 1-DH1 | 2402 | 0.375 | 86.25 | 230 | 31600 | 400 | Pass |
| 1-DH1 | 2441 | 0.374 | 46.376 | 124 | 31600 | 400 | Pass |
| 1-DH1 | 2480 | 0.374 | 46.376 | 124 | 31600 | 400 | Pass |
| 1-DH3 | 2402 | 1.631 | 282.163 | 173 | 31600 | 400 | Pass |
| 1-DH3 | 2441 | 1.631 | 244.65 | 150 | 31600 | 400 | Pass |
| 1-DH3 | 2480 | 1.631 | 243.019 | 149 | 31600 | 400 | Pass |
| 1-DH5 | 2402 | 2.879 | 106.523 | 37 | 31600 | 400 | Pass |
| 1-DH5 | 2441 | 2.879 | 123.797 | 43 | 31600 | 400 | Pass |
| 1-DH5 | 2480 | 2.877 | 120.834 | 42 | 31600 | 400 | Pass |

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate (1600 / 2 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 2 / 79) \times (0.4 \times 79) = 320$ hops

For DH3, With channel hopping rate (1600 / 4 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 4 / 79) \times (0.4 \times 79) = 160$ hops

For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:

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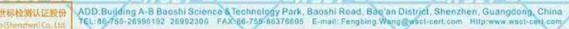
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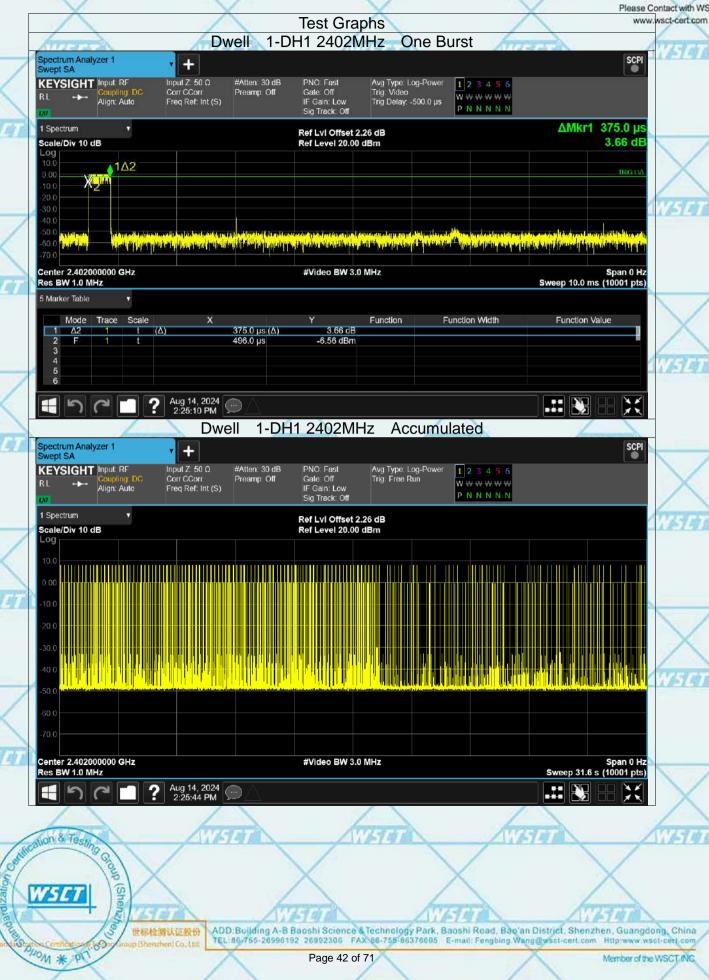




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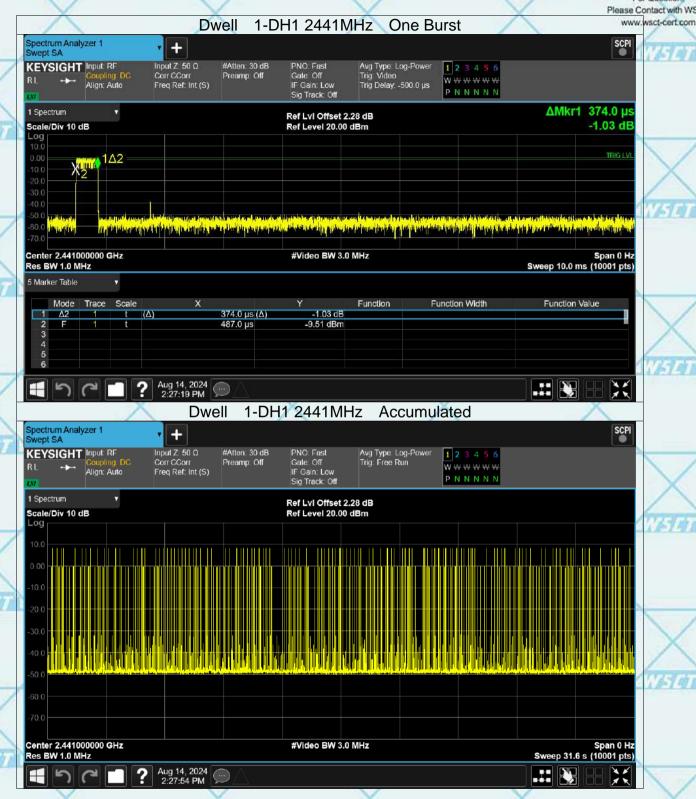




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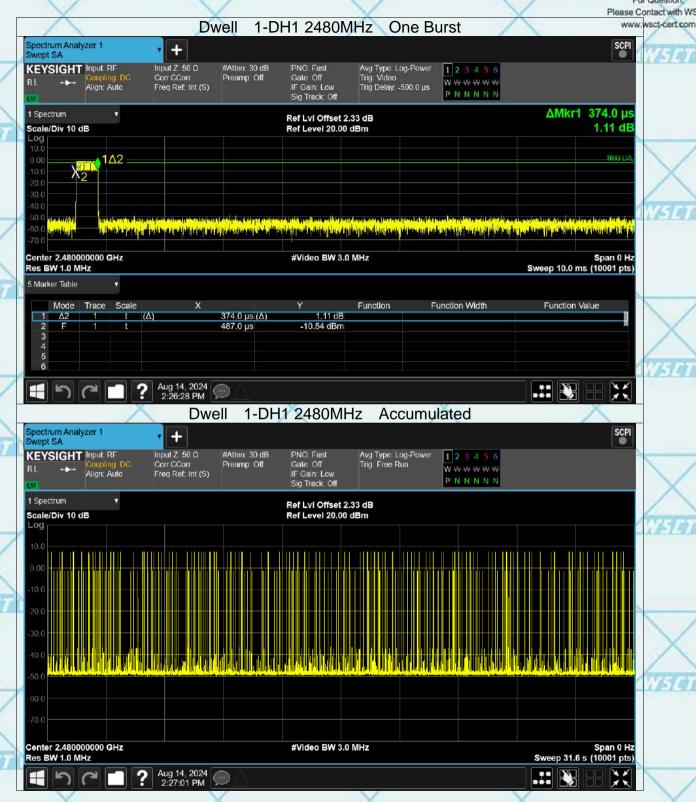




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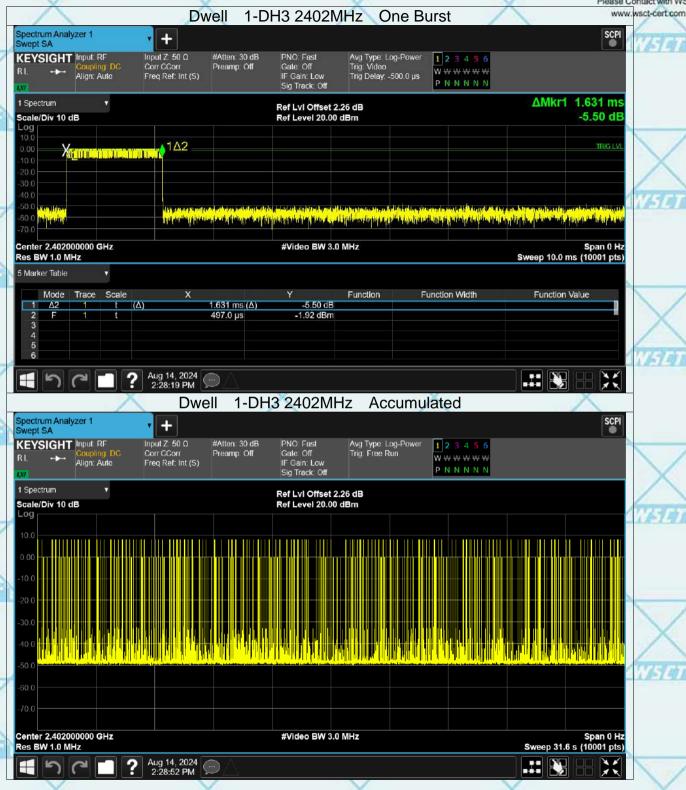




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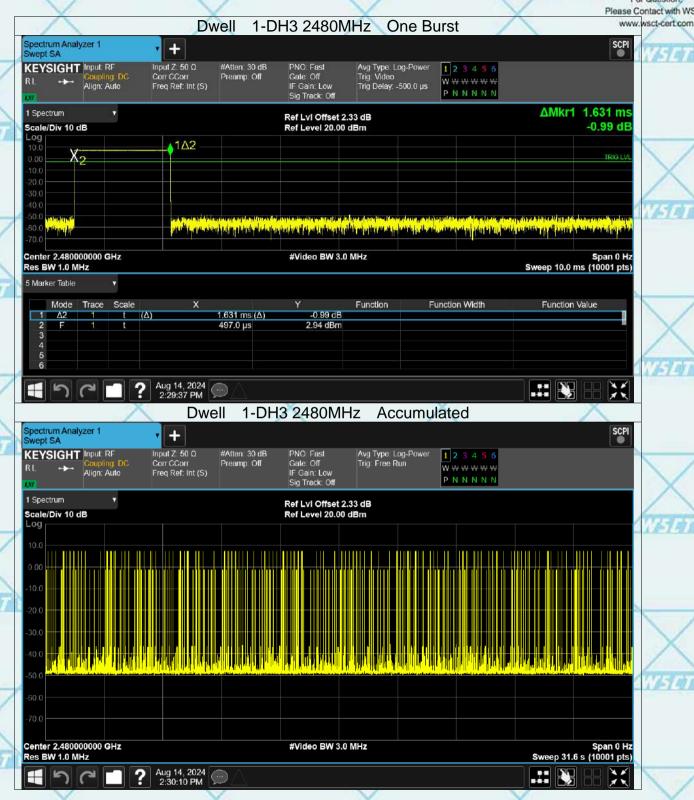




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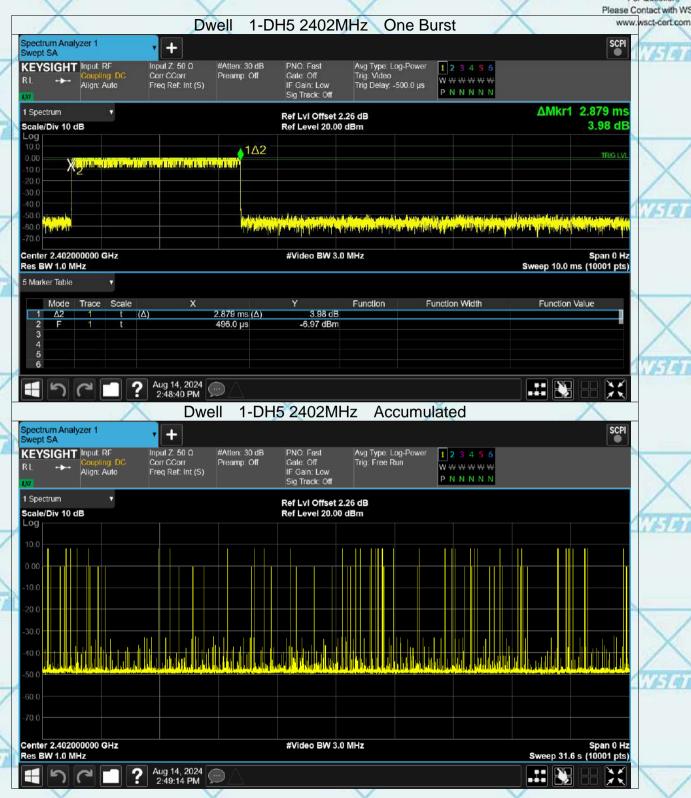




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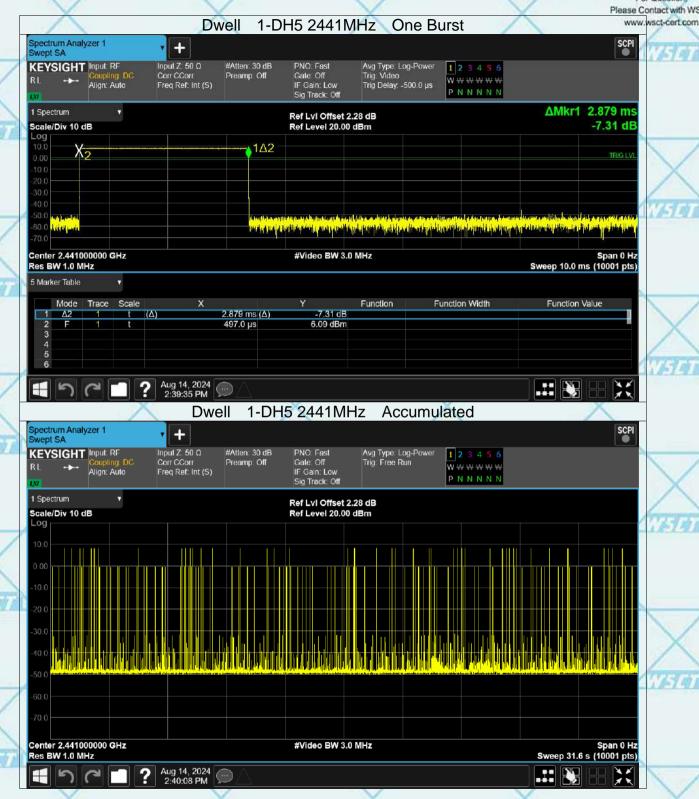




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6.8. **Pseudorandom Frequency Hopping Sequence**

Test Requirement:

FCC Part15 C Section 15.247 (a)(1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

Number of shift register stages: 9

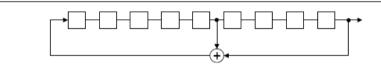
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Length of pseudo-random sequence: 2⁹-1 = 511 bits

Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

| | 0 | 2 | 4 | 6 | 62 | 2 | 64 | 78 | 1 | 73 | 75 7 | 77 | 7 |
|---|---|---|---|---|-----|---|----|----|---|----|------|----|---|
| | | | | | | | | | | | | | ĺ |
| 1 | | | | | | | | | | | | | |
| 1 | | | | | 1 1 | | | | | | | | |

Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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Conducted Band Edge Measurement 6.9.

| Test Requirement: | FCC Part15 C Section 15.247 (d) |
|-------------------|--|
| Test Method: | ANSI C63.10:2014 |
| Limit: | In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fa in the restricted bands must also comply with the radiated emission limits. |
| Test Setup: | Spectrum Analyzer |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report. |
| Test Result: | PASS |

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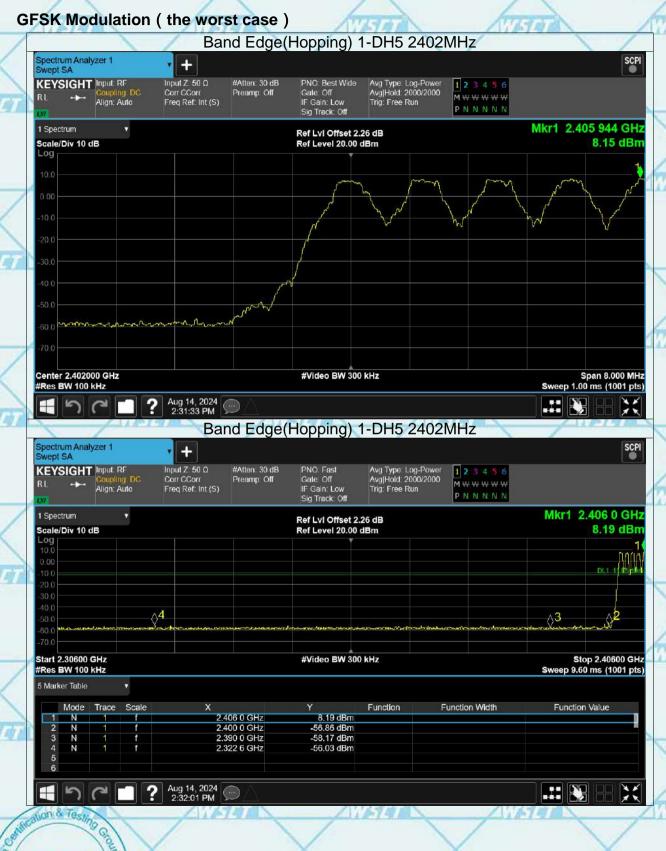
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6.9.2. Test Data



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6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

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| Test Method: ANSI C63.10:2014 In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power | |
|--|-------------------------------|
| | |
| Limit: shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which in the restricted bands must also comply with the radiated emission limits. | n fall |
| Test Setup: | |
| Test Mode: Transmitting mode with modulation | |
| The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. T path loss was compensated to the results for eac measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs mus at least 20 dB down from the highest emission le within the authorized band as measured with a 10 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be exclud against the limit line in the operating frequency based on the set of the set of | h et be vel 00 ed |
| Test Result: PASS | |

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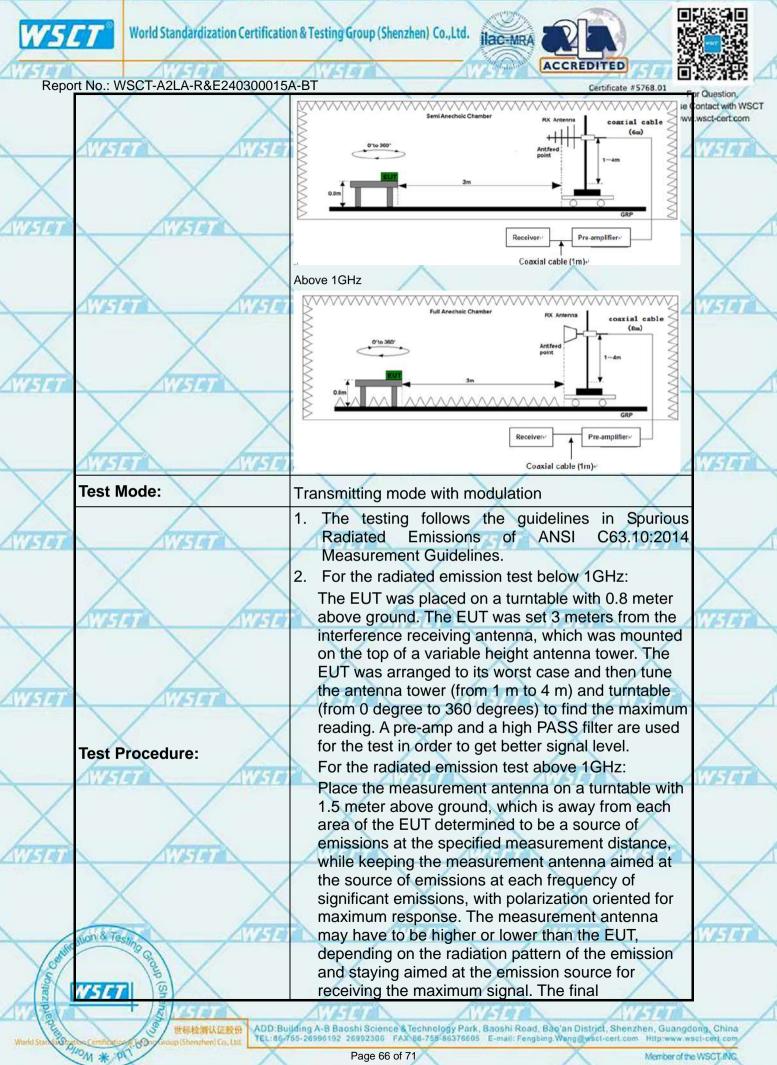
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6.11. Radiated Spurious Emission Measurement

| 6111 | Test Specification |
|---------|--------------------|
| 0.11.1. | rest specification |

| 6.11.1. Test Specification | | | 1 | | | - |
|--|---------------------------|------------------------------|-----------------------------------|---------------------------------|---|------------------|
| Test Requirement: | FCC Part15 | C Section | 15.209 | | X | |
| Test Method: | ANSI C63.10 |):2014 | wen | | ATT A | |
| Frequency Range: | 9 kHz to 25 (| GHz | | 1 | / | |
| Measurement Distance: | 3 m | | | | | \wedge |
| Antenna Polarization: | Horizontal & | Vertical | | ATT | 1 | W/5121 |
| | Frequency 9kHz- 150kHz | Detector Quasi-peak | RBW 200Hz | VBW 1kHz | Remark Quasi-peak Value | |
| Receiver Setup: | 150kHz- 30MHz | Quasi-peak Quasi-peak | 9kHz | 30kHz | Quasi-peak Value | |
| Receiver Getup. | 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak Value | |
| \times \times | Above 1GHz | Peak Peak | 1MHz 1MHz | 3MHz 10Hz | Peak Value Average Value | X |
| WEIT WEI | Frequer | cvr/5/ | Field Str | | Measurement | WEI A |
| | 0.009-0.4 | and the second second second | (microvolts 2400/F(| | Distance (meters) 300 | |
| | 0.490-1.7 | | 24000/F | | 30 | |
| | 1.705-3 | | 30 | 2 | 30 | - |
| AT ATTAC | 30-88 | | 100 | | 3 | - |
| Limit: | 216-96 | | 200 | | 3 | \sim |
| | Above 9 | 60 | 500 | 1 | 3 | \wedge |
| AVISON AVIS | - | ATTAC | | Magguro | | 172.46 |
| | Frequency | | Strength olts/meter) | Measure Distan (mete | ce Detector | AALL C |
| | Above 1GH | , | 500 | 3 | Average | |
| 17770 | | - | 5000 | 3 | Peak | |
| | For radiated emi | ssions below 3 | 30MHz | / | / | V |
| Δ | Di | stance = 3m | | | Computer | \bigtriangleup |
| AVISET AVIS | 2 | \rightarrow | $\overline{)}$ | Pre - | Amplifier | WA-14 |
| Test setup: | EUT | 5 | | | | |
| | | Turn table | | | | |
| ALL PIERS | | | | | Receiver | |
| \times \times | | Ground H | Plane | | | \times |
| | 30MHz to 1GHz | | | 1 | 1 | |
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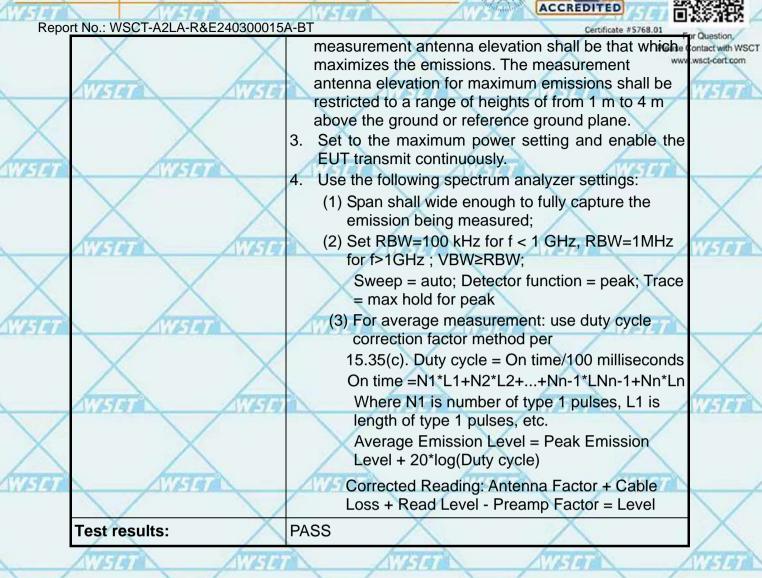
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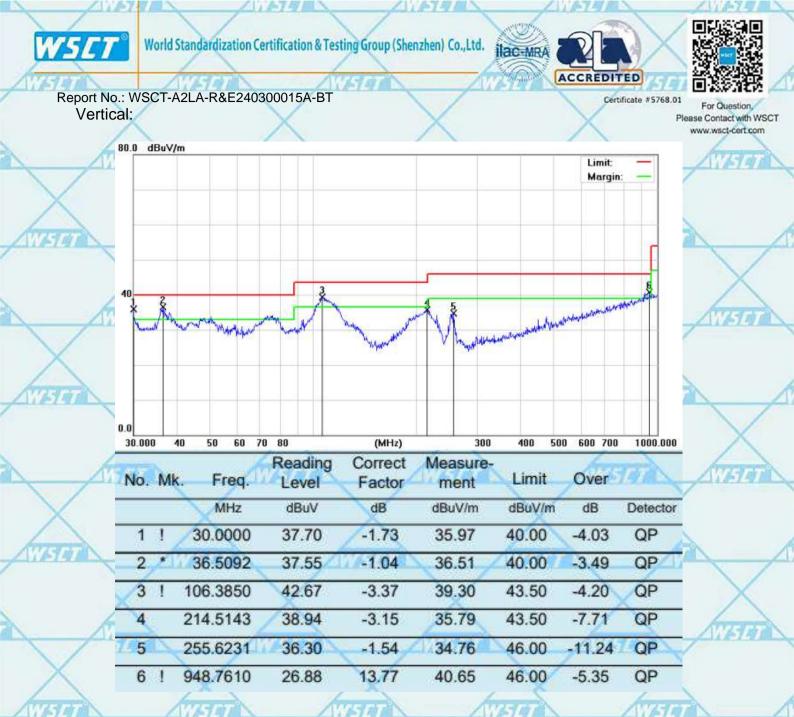
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Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$ e 150 kHz to 30MHz.

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Above 1GHz

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| GF | SK | | ATT TA | k | A A A A A A A A A A A A A A A A A A A | h | 1777 A | |
|----|----------------|---------|------------|-------------|---------------------------------------|----------|--------|--------|
| 1 | Frog | | | Low cha | nnel: 2402 | 2MHz | | |
| | Freq. (MHz) | Ant.Pol | Emission L | _evel(dBuV) | Limit 3m | (dBuV/m) | Ove | r(dB) |
| | | H/V | PK | AV | PK | AV | PK | AV |
| - | 4804 | V | 59.85 | 39.38 | 74 | 54 | -14.15 | -14.62 |
| | 7206 | V | 59.79 | 39.75 | 74 | 54 | -14.21 | -14.25 |
| | 4804 | Н | 58.71 | 40.87 | 74 | 54 | -15.29 | -13.13 |
| | 7206 | Н | 58.53 | 39.53 | 74 | 54 | -15.47 | -14.47 |

| A 7 8 3 - 8 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | | ATT THE TOWN | | | | The second se | | | | | | |
|---|---------|-------------------------|-------------|----------|----------|---|--------|--|--|--|--|--|
| Frog | | Middle channel: 2441MHz | | | | | | | | | | |
| Freq. (MHz) | Ant.Pol | Emission L | _evel(dBuV) | Limit 3m | (dBuV/m) | Ove | r(dB) | | | | | |
| | H/V | PK | AV | PK | AV | PK | AV | | | | | |
| 4882 | V | 60.49 | 39.88 | 74 | 54 | -13.51 | -14.12 | | | | | |
| 7323 | V | 58.46 | 39.84 | 74 | 54 | -15.54 | -14.16 | | | | | |
| 4882 | Н | 59.53 | 40.22 | 74 | 54 | -14.47 | -13.78 | | | | | |
| 7323 | Н | 59.71 | 40.71 | 74 | 54 | -14.29 | -13.29 | | | | | |

| and the second se | | and the second se | | and the second sec | | | |
|---|---------|---|-------------|--|----------|--------|--------|
| Frog | | | High cha | innel: 248 | OMHz | | |
| Freq. (MHz) | Ant.Pol | Emission I | _evel(dBuV) | Limit 3m | (dBuV/m) | Ove | r(dB) |
| | H/V | PK | AV | PK | AV | PK | AV |
| 4960 | V | 60.39 | 39.60 | 74 🏒 | 54 | -13.61 | -14.40 |
| 7440 | V | 59.57 | 39.28 | 74 | 54 | -14.43 | -14.72 |
| 4960 | Н | 59.25 | 40.93 | 74 | 54 | -14.75 | -13.07 |
| 7440 | Н | 58.92 | 39.92 | 74 | 54 | -15.08 | -14.08 |
| | | | | | | | |

Note:

2.

3.

The emission levels of other frequencies are very lower than the limit and not show in test report. 1.

Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

Data of measurement shown "----"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.



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Certificate #5768.01

Please Contact with WSCT www.wsct-cert.com

Report No.: WSCT-A2LA-R&E240300015A-BT Restricted Bands Requirements

| Frequency | Reading | Correct Factor | Emission Level | Limit | Margin | Polar | Detector |
|-----------|----------|-------------------|-------------------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| | Auran | <u> </u> | Low Cha | nnel | huran | Å | Antes |
| 2387 | 63.67 | -8.76 | 54.91 | 74 | 19.09 | H | РК |
| 2387 | 53.40 | -8.76 | 44.64 | 54 | 9.36 | н | AV |
| 2387 | 59.40 | -8.73 | 50.67 | 74 | 23.33 | V | PK |
| 2387 | 57.21 | -8.73 | 48.48 | 54 | 5.52 | V 5 | AV |
| 2390 | 62.36 | -8.76 | 53.60 | 74 | 20.40 | Н | PK |
| 2390 | 56.53 | -8.76 | 47.77 | 54 | 6.23 | н | AV |
| 2390 | 61.09 | -8.73 | 52.36 | 74 | 21.64 | v | PK |
| 2390 | 56.20 | -8.73 | 47.47 | 54 | 6.53 | V | AV |
| X | | X | High Cha | innel 📈 | | X | |
| 2483.5 | 64.75 | -8.76 | 55.99 | 74 | 18.01 | H | PK |
| 2483.5 | 55.55 | -8.76 | 46.79 | 54 | 7.21 | AIR | AV |
| 2483.5 | 61.10 | -8.73 | 52.37 | 74 | 21.63 | V | PK |
| 2483.5 | 57.56 | -8.73 | 48.83 | 54 | 5.17 | V | AV |

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

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*****END OF REPORT*****

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