

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                       |                                           |                                                                                    |           |                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|-----------|----------------------------------------------|--|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <b>CN26ABZE 001</b>                                                                                                                   | <b>Auftrags-Nr.:</b><br><i>Order no.:</i> |                                                                                    | 168583409 | <b>Seite 1 von 26</b><br><i>Page 1 of 26</i> |  |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                          |  | N/A                                                                                                                                   |                                           | <b>Auftragsdatum:</b><br><i>Order date:</i>                                        |           | 2025-11-11                                   |  |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Hui Zhou Gaoshengda Technology Co.,LTD<br>No. 6, Qiaoguang Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou, Guangdong, China |                                           |                                                                                    |           |                                              |  |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                          |  | WIFI+BT Module                                                                                                                        |                                           |                                                                                    |           |                                              |  |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                   |  | WKCT2VM2511<br>(Trademark: GSD)                                                                                                       |                                           |                                                                                    |           |                                              |  |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Test Report                                                                                                                           |                                           |                                                                                    |           |                                              |  |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  |  | CFR Title 47 FCC Part 15: Subpart C Section 15.247<br>RSS-247 Issue 4 July 2025<br>RSS-Gen Issue 5 February 2021                      |                                           |                                                                                    |           |                                              |  |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                                         |  | 2025-11-11                                                                                                                            |                                           | Please refer to Photo Document                                                     |           |                                              |  |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     |  | A004135263-002~004<br>A004152054-001~002                                                                                              |                                           |                                                                                    |           |                                              |  |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 2025-12-19 - 2026-01-07                                                                                                               |                                           |                                                                                    |           |                                              |  |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  |  | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                 |                                           |                                                                                    |           |                                              |  |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                               |  | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                 |                                           |                                                                                    |           |                                              |  |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Pass                                                                                                                                  |                                           |                                                                                    |           |                                              |  |
| <b>geprüft von:</b><br><i>tested by:</i>                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                       |                                           | <b>genehmigt von:</b><br><i>authorized by:</i>                                     |           |                                              |  |
| <div><div></div><div>X</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                       |                                           | <div><div></div><div>X</div></div>                                                 |           |                                              |  |
| <b>Datum:</b><br><i>Date:</i> 2026-01-20                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                       |                                           | <b>Ausstellungsdatum:</b><br><i>Issue date:</i> 2026-01-20                         |           |                                              |  |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Sachverständige(r)/Expert                                                                                                             |                                           | <b>Stellung / Position:</b>                                                        |           | Sachverständige(r)/Expert                    |  |
| <b>Sonstiges /</b><br><i>Other:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | FCC ID: 2AC23-WKCT2V<br>IC: 12290A-WKCT2V, HVIN: WKCT2VM2511<br><br>This report is for Bluetooth dual mode.                           |                                           |                                                                                    |           |                                              |  |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                       |                                           | Prüfmuster vollständig und unbeschädigt<br><i>Test item complete and undamaged</i> |           |                                              |  |
| <b>* Legende:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | P(ass) = entspricht o.g. Prüfgrundlage(n)                                                                                             |                                           | F(ail) = entspricht nicht o.g. Prüfgrundlage(n)                                    |           | N/A = nicht anwendbar                        |  |
| <b>* Legend:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | P(ass) = passed a.m. test specification(s)                                                                                            |                                           | F(ail) = failed a.m. test specification(s)                                         |           | N/A = not applicable                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                       |                                           |                                                                                    |           | N/T = nicht getestet                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                       |                                           |                                                                                    |           | N/T = not tested                             |  |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> |  |                                                                                                                                       |                                           |                                                                                    |           |                                              |  |

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**Test report no.:**

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**Anmerkungen**  
*Remarks*

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.<br/>Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.<br/>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i><br/><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>                                                                                                                                                                                                                                                                                       |

## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER**

*RESULT: Pass*

**5.1.3 CONDUCTED POWER SPECTRAL DENSITY**

*RESULT: Pass*

**5.1.4 6dB BANDWIDTH**

*RESULT: Pass*

**5.1.5 99% BANDWIDTH**

*RESULT: Pass*

**5.1.6 20dB BANDWIDTH**

*RESULT: Pass*

**5.1.7 CARRIER FREQUENCY SEPARATION**

*RESULT: Pass*

**5.1.8 NUMBER OF HOPPING FREQUENCY**

*RESULT: Pass*

**5.1.9 TIME OF OCCUPANCY**

*RESULT: Pass*

**5.1.10 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH**

*RESULT: Pass*

**5.1.11 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

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# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth BR & EDR

Appendix B: Test Results of Bluetooth Low Energy

Appendix C: Photographs of the Test Set-up

## 2 Test Sites

### 2.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

### 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

| <b>Radio Spectrum Testing (SRD-Tonscend)</b>   |                     |                  |                   |                  |                   |
|------------------------------------------------|---------------------|------------------|-------------------|------------------|-------------------|
| <b>Equipment</b>                               | <b>Manufacturer</b> | <b>Model</b>     | <b>Serial No.</b> | <b>Cal. Date</b> | <b>Cal. until</b> |
| EXA Signal Analyzer, Multi-touch               | Keysight            | N9010B           | MY60241175        | 2025-09-23       | 2026-09-22        |
| MXG X-Series RF Vector Signal Generator        | Keysight            | N5182B           | MY61250137        | 2025-09-23       | 2026-09-22        |
| EXG X-Series Microwave Analog Signal Generator | Keysight            | N5173B           | MY61250141        | 2025-09-23       | 2026-09-22        |
| DC power supply                                | Keysight            | E3642A           | MY61276100        | 2025-09-23       | 2026-09-22        |
| Power Control Unit                             | Tonscend            | JS0806-4ADC      | N/A               | 2025-09-23       | 2026-09-22        |
| Automation Control Unit                        | Tonscend            | JS0806-2         | 21C8060396        | 2025-09-23       | 2026-09-22        |
| Test Software                                  | Tonscend            | JS1120-3         | N/A               | N/A              | N/A               |
| Control PC                                     | Lenovo              | TianYi510S-071MB | YLX23JMF          | N/A              | N/A               |
| Shielding Room                                 | Albatross           | SR1              | APC17151-SR1      | 2024-09-14       | 2027-09-13        |
| <b>Unwanted Emission Testing (TS9975)</b>      |                     |                  |                   |                  |                   |
| <b>Equipment</b>                               | <b>Manufacturer</b> | <b>Model</b>     | <b>Serial No.</b> | <b>Cal. Date</b> | <b>Cal. until</b> |
| EMI Test Receiver                              | R&S                 | ESR 7            | 102021            | 2025-09-22       | 2026-09-21        |
| Signal Analyzer                                | R&S                 | FSV 40           | 101439            | 2025-09-22       | 2026-09-21        |
| System Controller Interface                    | R&S                 | SCI-100          | S10010038         | N/A              | N/A               |
| Filterbank                                     | R&S                 | Wlan             | 100759            | 2025-09-22       | 2026-09-21        |
| OSP                                            | R&S                 | OSP 120          | 102040            | N/A              | N/A               |
| Pre-amplifier                                  | R&S                 | SCU08F1          | 08320031          | 2025-09-22       | 2026-09-21        |
| Amplifier                                      | R&S                 | SCU-18F          | 180070            | 2025-09-22       | 2026-09-21        |
| Amplifier                                      | R&S                 | SCU40A           | 100475            | 2025-09-22       | 2026-09-21        |
| Trilog Broadband Antenna (30 MHz - 7 GHz)      | Schwarzbeck         | VULB 9162        | 193               | 2024-09-28       | 2026-09-27        |
| Double-Ridged Antenna (1-18 GHz)               | ETS-LINDGREN        | 3117             | 00218717          | 2024-09-28       | 2026-09-27        |

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|------------------------------------------|-------------|-------------------|--------------|------------|------------|
| Wideband Ridged Horn Antenna (18-40 GHz) | Steatite    | QMS-00880         | 19067        | 2024-09-28 | 2026-09-27 |
| Active Loop Antenna                      | Schwarzbeck | FMZB 1513         | 302          | 2024-09-28 | 2026-09-27 |
| Test software                            | R&S         | EMC32 (V10.60.10) | N/A          | N/A        | N/A        |
| Control PC                               | Dell        | OptiPlex 7050     | 36NV9P2      | N/A        | N/A        |
| 3m Semi-Anechoic Chamber                 | Albatross   | SAC-3m            | APC17151-SAC | 2024-09-14 | 2027-09-13 |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

**Table 2: Measurement Uncertainty**

| Parameter                     | Uncertainty |
|-------------------------------|-------------|
| RF output power, conducted    | ± 0.99 dB   |
| Occupied Channel Bandwidth    | ± 2.08 %    |
| RF power density, conducted   | ± 0.99 dB   |
| Unwanted Emissions, conducted | ± 0.89 dB   |
| All emissions, radiated       | ± 4.17 dB   |

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

## 3 General Product Information

### 3.1 Product Function and Intended Use

The EUT is a WIFI+BT Module, which supports Bluetooth (dual mode), 2.4GHz Wi-Fi and 5GHz Wi-Fi functions.

For details refer to the User Manual, Technical Description and Circuit Diagram.

### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

| General Information of EUT                              | Value                                                                                            |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Kind of Equipment:                                      | WIFI+BT Module                                                                                   |
| Type Designation:                                       | WKCT2VM2511                                                                                      |
| Trademark:                                              | GSD                                                                                              |
| FCC ID:                                                 | 2AC23-WKCT2V                                                                                     |
| IC:                                                     | 12290A-WKCT2V                                                                                    |
| HVIN:                                                   | WKCT2VM2511                                                                                      |
| Operating Voltage:                                      | DC 5V                                                                                            |
| Operating Temperature Range:                            | -10 °C ~ +70 °C                                                                                  |
| <b>Technical Specification of Bluetooth (dual mode)</b> |                                                                                                  |
| Operating Frequency:                                    | 2402 MHz to 2480 MHz                                                                             |
| Type of Modulation:                                     | GFSK, $\pi/4$ -DQPSK, 8DPSK                                                                      |
| Channel Number:                                         | BR & EDR mode:79 channels, Low Energy mode:40 channels                                           |
| Channel Separation:                                     | BR & EDR mode:1MHz, Low Energy mode:2MHz                                                         |
| Data Rate:                                              | BR & EDR mode: 1Mbps, 2Mbps, 3Mbps<br>Low Energy mode: 1Mbps, 2Mbps                              |
| Antenna Type:                                           | PIFA Antenna                                                                                     |
| Antenna Gain:                                           | -2.61 dBi (Provided by the Client)                                                               |
| <b>Technical Specification of 2.4GHz Wi-Fi</b>          |                                                                                                  |
| Operating Frequency:                                    | 2412 - 2462 MHz for 802.11b/g/n(HT20)<br>2422 - 2452 MHz for 802.11n(HT40)                       |
| Type of Modulation:                                     | DSSS(DBPSK/DQPSK/CCK)<br>OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)                                      |
| Data Rate:                                              | 1/2/5.5/11 Mbps for 802.11b<br>6/9/12/18/24/36/48/54 Mbps for 802.11g<br>MCS0 ~ MCS7 for 802.11n |
| Channel Number:                                         | 11 channels for 802.11b/g/n(HT20)<br>7 channels for 802.11n(HT40)                                |
| Channel Separation:                                     | 5 MHz                                                                                            |
| Antenna Type:                                           | PCB Antenna                                                                                      |
| Antenna Number:                                         | 2Tx2Rx                                                                                           |
| Antenna Gain:                                           | 0.54 dBi for ANT 0; 0.44dBi for ANT 1<br>(Provided by the Client)                                |
| <b>Technical Specification of 5GHz Wi-Fi</b>            |                                                                                                  |
| Operating Frequency:                                    | 5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5825MHz                                           |

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|                     |                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocol:           | 802.11 a/n20/n40/ac20/ac40/ac80                                                                                                                                                                                                                                                                                                                                              |
| Channel Number:     | 5180-5240MHz, 7CHs<br>5260-5320MHz, 7CHs<br>5500-5700MHz, 18CHs<br>5745-5825MHz, 8CHs                                                                                                                                                                                                                                                                                        |
| Type of Modulation: | OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)                                                                                                                                                                                                                                                                                                                                           |
| Data Rate:          | 6/9/12/18/24/36/48/54 Mbps for 802.11a<br>MCS0~MCS7 for 802.11n<br>MCS0~MCS9 for 802.11ac                                                                                                                                                                                                                                                                                    |
| Channel Separation: | 20MHz, 40MHz, 80MHz                                                                                                                                                                                                                                                                                                                                                          |
| Antenna Type:       | PCB Antenna                                                                                                                                                                                                                                                                                                                                                                  |
| Antenna Number:     | 2Tx2Rx                                                                                                                                                                                                                                                                                                                                                                       |
| Antenna Gain:       | WIFI 0:<br>1.06dBi for U-NII Band 5150-5250MHz,<br>1.23dBi for U-NII Band 5250-5350MHz,<br>2.18dBi for U-NII Band 5470-5725MHz,<br>2.33dBi for U-NII Band 5745-5825MHz<br>WIFI 1:<br>0.76dBi for U-NII Band 5150-5250MHz,<br>1.15dBi for U-NII Band 5250-5350MHz,<br>1.86dBi for U-NII Band 5470-5725MHz,<br>1.34dBi for U-NII Band 5745-5825MHz<br>(Provided by the Client) |

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

**Table 4: RF Channel and Frequency of Bluetooth BR & EDR**

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 0          | 2402.00         | 20         | 2422.00         | 40         | 2442.00         | 60         | 2462.00         |
| 1          | 2403.00         | 21         | 2423.00         | 41         | 2443.00         | 61         | 2463.00         |
| 2          | 2404.00         | 22         | 2424.00         | 42         | 2444.00         | 62         | 2464.00         |
| 3          | 2405.00         | 23         | 2425.00         | 43         | 2445.00         | 63         | 2465.00         |
| 4          | 2406.00         | 24         | 2426.00         | 44         | 2446.00         | 64         | 2466.00         |
| 5          | 2407.00         | 25         | 2427.00         | 45         | 2447.00         | 65         | 2467.00         |
| 6          | 2408.00         | 26         | 2428.00         | 46         | 2448.00         | 66         | 2468.00         |
| 7          | 2409.00         | 27         | 2429.00         | 47         | 2449.00         | 67         | 2469.00         |
| 8          | 2410.00         | 28         | 2430.00         | 48         | 2450.00         | 68         | 2470.00         |
| 9          | 2411.00         | 29         | 2431.00         | 49         | 2451.00         | 69         | 2471.00         |
| 10         | 2412.00         | 30         | 2432.00         | 50         | 2452.00         | 70         | 2472.00         |
| 11         | 2413.00         | 31         | 2433.00         | 51         | 2453.00         | 71         | 2473.00         |
| 12         | 2414.00         | 32         | 2434.00         | 52         | 2454.00         | 72         | 2474.00         |
| 13         | 2415.00         | 33         | 2435.00         | 53         | 2455.00         | 73         | 2475.00         |
| 14         | 2416.00         | 34         | 2436.00         | 54         | 2456.00         | 74         | 2476.00         |
| 15         | 2417.00         | 35         | 2437.00         | 55         | 2457.00         | 75         | 2477.00         |
| 16         | 2418.00         | 36         | 2438.00         | 56         | 2458.00         | 76         | 2478.00         |
| 17         | 2419.00         | 37         | 2439.00         | 57         | 2459.00         | 77         | 2479.00         |
| 18         | 2420.00         | 38         | 2440.00         | 58         | 2460.00         | 78         | 2480.00         |
| 19         | 2421.00         | 39         | 2441.00         | 59         | 2461.00         |            |                 |

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz and highest channel: 2480 MHz for Bluetooth BR & EDR

**Table 5: RF Channel and Frequency of Bluetooth LE**

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 0          | 2402            | 10         | 2422            | 20         | 2442            | 30         | 2462            |
| 1          | 2404            | 11         | 2424            | 21         | 2444            | 31         | 2464            |
| 2          | 2406            | 12         | 2426            | 22         | 2446            | 32         | 2466            |
| 3          | 2408            | 13         | 2428            | 23         | 2448            | 33         | 2468            |
| 4          | 2410            | 14         | 2430            | 24         | 2450            | 34         | 2470            |
| 5          | 2412            | 15         | 2432            | 25         | 2452            | 35         | 2472            |
| 6          | 2414            | 16         | 2434            | 26         | 2454            | 36         | 2474            |
| 7          | 2416            | 17         | 2436            | 27         | 2456            | 37         | 2476            |
| 8          | 2418            | 18         | 2438            | 28         | 2458            | 38         | 2478            |
| 9          | 2420            | 19         | 2440            | 29         | 2460            | 39         | 2480            |

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth transmitting mode (BR & EDR mode)
  - 1) Low Channel
  - 2) Middle Channel
  - 3) High Channel
- B. On, Bluetooth transmitting mode (Bluetooth LE mode)
  - 1) Low Channel
  - 2) Middle Channel
  - 3) High Channel
- C. On, Transmitting on Hopping channel
- D. On, Bluetooth with 5GHz Wi-Fi co-location mode
- E. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- |                         |                                  |
|-------------------------|----------------------------------|
| - Application Form      | - User Manual                    |
| - Operation Description | - FCC/IC Label and Location Info |

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on model *WKCT2VM2511* in this report.

### 4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model | S/N       |
|-------------|--------------|-------|-----------|
| Laptop      | Lenovo       | T480  | PF-16A6N8 |

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

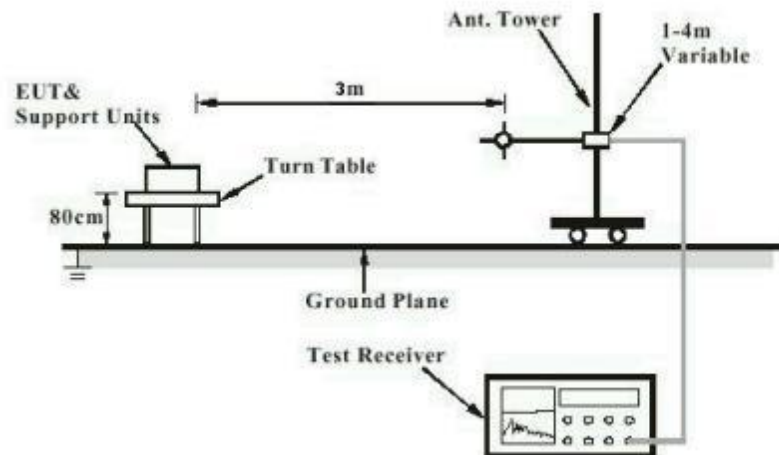


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

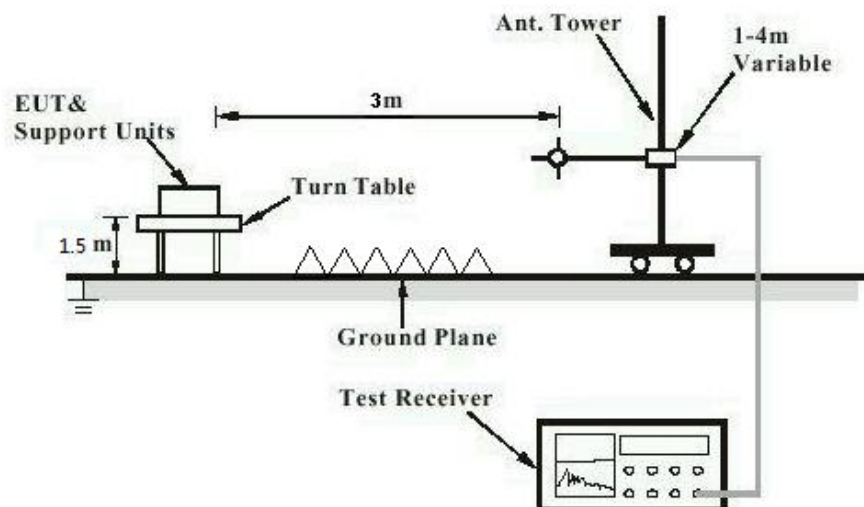
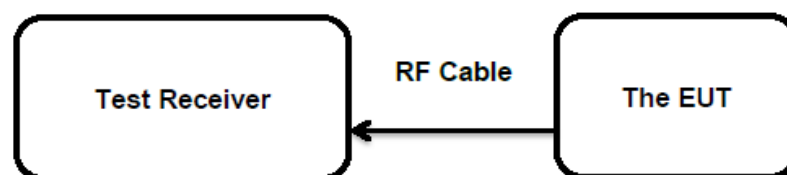


Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:

Pass

**Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203  
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has PIFA Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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## 5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

### Test Specification

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(b)(1)&(3)<br>RSS-247 Clause 6.2.3.2 & RSS-247 Clause 6.3.2 |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024            |
| Limits            | : FHSS < 0.125 Watts, DSSS < 1.0 Watts                                       |
| Kind of test site | : Shielded Room                                                              |

### Test Setup

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2025-12-19 to 2026-01-12 |
| Input voltage        | : DC 5V                    |
| Operation mode       | : A, B                     |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : 25 °C                    |
| Relative humidity    | : 45 %                     |
| Atmospheric pressure | : 101 kPa                  |

For details refer to following test result.

**Table 7: Test Result of Maximum Peak Conducted Output Power, BR & EDR**

| Test Mode                     | Test Channel (MHz) | Measured Peak Power |               | Limit (W) |
|-------------------------------|--------------------|---------------------|---------------|-----------|
|                               |                    | (dBm)               | (W)           |           |
| GFSK (BR)                     | 2402.0             | 6.31                | 0.0043        | < 0.125   |
|                               | 2441.0             | 5.90                | 0.0039        |           |
|                               | 2480.0             | 6.14                | 0.0041        |           |
| 8DPSK (EDR)                   | 2402.0             | 9.06                | 0.0081        |           |
|                               | 2441.0             | 8.39                | 0.0069        |           |
|                               | 2480.0             | 8.82                | 0.0076        |           |
| <b>Maximum Measured Value</b> |                    | <b>9.06</b>         | <b>0.0081</b> |           |

Max. e.i.r.p.=9.06dBm - 2.61dBi=6.45dBm, which is less than 36dBm=4W.

**Table 8: Test Result of Maximum Peak Conducted Output Power, Bluetooth LE**

| Test Mode           | Data Rate | Test Channel<br>(MHz) | Measured Peak Power |        | Limit<br>(W) |
|---------------------|-----------|-----------------------|---------------------|--------|--------------|
|                     |           |                       | (dBm)               | (W)    |              |
| Bluetooth LE        | 1 Mbps    | 2402                  | 5.88                | 0.0039 | < 1.0        |
|                     |           | 2440                  | 5.63                | 0.0037 |              |
|                     |           | 2480                  | 5.88                | 0.0039 |              |
|                     | 2 Mbps    | 2402                  | 5.75                | 0.0038 |              |
|                     |           | 2440                  | 5.57                | 0.0036 |              |
|                     |           | 2480                  | 5.36                | 0.0034 |              |
| Max. Measured Value |           |                       | 5.88                | 0.0039 |              |

Max. e.i.r.p.=5.88dBm - 2.61dBi=3.27dBm, which is less than 36dBm=4W.

Note:

- 1) The cable loss is taken into account in results.
- 2) e.i.r.p.= $P_{\text{(Peak power)}} + G$ , which is far below the 4 W

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### 5.1.3 Conducted Power Spectral Density

RESULT:

Pass

**Test Specification**

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(e)<br>RSS-247 Clause 6.3.1                      |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024 |
| Limits            | : < 8 dBm / 3kHz                                                  |
| Kind of test site | : Shielded Room                                                   |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2025-12-19 to 2026-01-12 |
| Input voltage        | : DC 5V                    |
| Operation mode       | : B                        |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : 25 °C                    |
| Relative humidity    | : 45 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix B.

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### 5.1.4 6dB Bandwidth

RESULT:

Pass

**Test Specification**

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(a)(2)<br>RSS-247 Clause 6.3.1                   |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024 |
| Limits            | : > 500 kHz                                                       |
| Kind of test site | : Shielded Room                                                   |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2025-12-19 to 2026-01-12 |
| Input voltage        | : DC 5V                    |
| Operation mode       | : B                        |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : 25 °C                    |
| Relative humidity    | : 45 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix B.

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### 5.1.5 99% Bandwidth

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(a)  
RSS-Gen Clause 6.7

Basic standard : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+  
C63.10a:2024

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2025-12-19 to 2026-01-12

Input voltage : DC 5V

Operation mode : A, B

Test channel : Low / Middle / High

Ambient temperature : 25 °C

Relative humidity : 45 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A, B.

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### 5.1.6 20dB Bandwidth

**RESULT:****Pass****Test Specification**

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(a)(1)<br>RSS-247 Clause 6.2.1                   |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024 |
| Kind of test site | : Shielded Room                                                   |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2025-12-19 to 2026-01-12 |
| Input voltage        | : DC 5V                    |
| Operation mode       | : A                        |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : 25 °C                    |
| Relative humidity    | : 45 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix A.

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### 5.1.7 Carrier Frequency Separation

RESULT:

Pass

**Test Specification**

|                   |                                                                      |
|-------------------|----------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(a)(1)<br>RSS-247 Clause 6.2.3.1                    |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024    |
| Limits            | : $\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth, whichever is greater |
| Kind of test site | : Shielded Room                                                      |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2025-12-19 to 2026-01-12 |
| Input voltage        | : DC 5V                    |
| Operation mode       | : C                        |
| Ambient temperature  | : 25 °C                    |
| Relative humidity    | : 45 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix A.

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### 5.1.8 Number of Hopping Frequency

RESULT:

Pass

**Test Specification**

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Test standard     | : FCC part 15.247(a)(1)(iii)<br>RSS-247 Clause 6.2.3.1            |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024 |
| Limits            | : $\geq 15$ non-overlapping channels                              |
| Kind of test site | : Shielded Room                                                   |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2025-12-19 to 2026-01-12 |
| Input voltage        | : DC 5V                    |
| Operation mode       | : C                        |
| Ambient temperature  | : 25 °C                    |
| Relative humidity    | : 45 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix A.

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### 5.1.9 Time of Occupancy

RESULT:

Pass

**Test Specification**

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Test standard     | : FCC part 15.247(a)(1)(iii)<br>RSS-247 Clause 6.2.3.1            |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024 |
| Limits            | : < 0.4s                                                          |
| Kind of test site | : Shielded Room                                                   |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2025-12-19 to 2026-01-12 |
| Input voltage        | : DC 5V                    |
| Operation mode       | : C                        |
| Ambient temperature  | : 25 °C                    |
| Relative humidity    | : 45 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix A.

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### 5.1.10 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

**Test Specification**

|                   |                                                                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(d)<br>RSS-247 Clause 6.6                                                                                                                                                                                                                                  |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024                                                                                                                                                                                                           |
| Limits            | : 20dB (below that in the 100kHz bandwidth within the band<br>that contains the highest level of the desired power);<br>In addition, radiated emissions which fall in the restricted<br>bands, must also comply with the radiated emission limits<br>specified in 15.209(a) |
| Kind of test site | : Shielded Room                                                                                                                                                                                                                                                             |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2025-12-19 to 2026-01-12 |
| Input voltage        | : DC 5V                    |
| Operation mode       | : A, B, C                  |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : 25 °C                    |
| Relative humidity    | : 45 %                     |
| Atmospheric pressure | : 101 kPa                  |

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A, B.

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## 5.1.11 Radiated Spurious Emission

RESULT:

Pass

### Test Specification

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(d) & FCC Part 15.205<br>RSS-247 Clause 2.4             |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024        |
| Limits            | : Refer to 15.209(a) of FCC part 15.247(d)<br>RSS-Gen Section 8.9 & 8.10 |
| Kind of test site | : 3m Semi-anechoic Chamber                                               |

### Test Setup

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2026-01-03 to 2026-01-07 |
| Input voltage        | : DC 5V                    |
| Operation mode       | : A, B, D                  |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : Refer to test result     |
| Relative humidity    | : Refer to test result     |
| Atmospheric pressure | : 101 kPa                  |

### Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A, B.

## 6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix C.

## 7 List of Tables

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