

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                           |                                                                             |                                          |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>CN24F0Q2 004</b>                                                                                                                                                                                       | <b>Auftrags-Nr.:</b><br>Order no.:                                          | <b>168438695</b>                         | Seite 1 von 26<br>Page 1 of 26                                                        |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                                       | <b>Auftragsdatum:</b><br>Order date:                                        | 2023-08-09                               |                                                                                       |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>SZ DJI TECHNOLOGY CO., LTD</b><br>Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street,<br>Nanshan District, Shenzhen, China                                                   |                                                                             |                                          |                                                                                       |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                                 | DJI Goggles 3                                                                                                                                                                                             |                                                                             |                                          |                                                                                       |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                          | TKGS3<br>(Trademark: DJI)                                                                                                                                                                                 |                                                                             |                                          |                                                                                       |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                            | Test Report                                                                                                                                                                                               |                                                                             |                                          |                                                                                       |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                         | CFR47 FCC Part 15: Subpart E Section 15.407<br>CFR47 FCC Part 15: Subpart C Section 15.207<br>CFR47 FCC Part 15: Subpart C Section 15.209<br>RSS-247 Issue 3 August 2023<br>RSS-Gen Issue 5 February 2021 |                                                                             |                                          |                                                                                       |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                                | 2023-11-13                                                                                                                                                                                                | Please refer to Photo Document                                              |                                          |                                                                                       |
| <b>Prüfmuster-Nr.:</b><br>Test sample no:                                                                                                                                                                                                                                                                                                                                                                                                                            | A003598699-029~032<br>A003598699-014, 024                                                                                                                                                                 |                                                                             |                                          |                                                                                       |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                              | 2023-11-24 - 2024-01-03                                                                                                                                                                                   |                                                                             |                                          |                                                                                       |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                         | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                                                                                     |                                                                             |                                          |                                                                                       |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                                      | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                                                                                     |                                                                             |                                          |                                                                                       |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass                                                                                                                                                                                                      |                                                                             |                                          |                                                                                       |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |                                                                             | <b>genehmigt von:</b><br>authorized by:  |  |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2024-02-21                                                                                                                                                                                                | Signed by: Bell Hu                                                          | <b>Ausstellungsdatum:</b><br>Issue date: | 2024-02-21                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                           |                                                                             | Signed by: Jonathan Li                   |                                                                                       |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sachverständige(r)/Expert                                                                                                                                                                                 |                                                                             | <b>Stellung / Position:</b>              | Sachverständige(r)/Expert                                                             |
| <b>Sonstiges /</b><br><b>Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  | FCC ID: SS3-TKGS323,<br>IC: 11805A-TKGS323,<br>PMN: DJI Goggles 3, HVIN: TKGS3<br>This report is for 5.8GHz SDR and 5.8GHz Wi-Fi.                                                                         |                                                                             |                                          |                                                                                       |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                           | Prüfmuster vollständig und unbeschädigt<br>Test item complete and undamaged |                                          |                                                                                       |
| <small>* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet<br/>* Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</small>                                                                                                                                                             |                                                                                                                                                                                                           |                                                                             |                                          |                                                                                       |
| <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> |                                                                                                                                                                                                           |                                                                             |                                          |                                                                                       |

V05

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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.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, 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.</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.</i></p>                                                                                      |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>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></p> <p><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 115:2021, 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 115:2021, 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> |

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## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 MAXIMUM OUTPUT POWER**

*RESULT: Pass*

**5.1.3 CONDUCTED POWER SPECTRAL DENSITY**

*RESULT: Pass*

**5.1.4 FREQUENCY STABILITY**

*RESULT: Pass*

**5.1.5 6dB BANDWIDTH**

*RESULT: Pass*

**5.1.6 99% BANDWIDTH**

*RESULT: Pass*

**5.1.7 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

**5.1.8 CONDUCTED EMISSION ON AC MAINS**

*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 5.8GHz SDR

Appendix B: Test Results of 5.8GHz Wi-Fi

Appendix C: Test Results of 5.2GHz Wi-Fi

Appendix D: Photographs of the Test Set-up.

## 2 Test Sites

### 2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. 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        | 2023-09-22       | 2024-09-21        |
| MXG X-Series RF Vector Signal Generator        | Keysight            | N5182B           | MY61250137        | 2023-09-22       | 2024-09-21        |
| EXG X-Series Microwave Analog Signal Generator | Keysight            | N5173B           | MY61250141        | 2023-09-22       | 2024-09-21        |
| DC power supply                                | Keysight            | E3642A           | MY61276100        | 2023-09-22       | 2024-09-21        |
| Power Control Unit                             | Tonscend            | JS0806-4ADC      | N/A               | 2023-09-22       | 2024-09-21        |
| Automation Control Unit                        | Tonscend            | JS0806-2         | 21C8060396        | 2023-09-22       | 2024-09-21        |
| Test Software                                  | Tonscend            | JS1120-3         | N/A               | N/A              | N/A               |
| Control PC                                     | Lenovo              | TianYi510S-071MB | Y LX23JMF         | N/A              | N/A               |
| Shielding Room 8#                              | Albatross           | SR8              | APC17151-SR8      | 2021-06-22       | 2024-06-22        |
| <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            | 2023-07-26       | 2024-07-25        |
| Signal Analyzer                                | R&S                 | FSV 40           | 101439            | 2023-07-26       | 2024-07-25        |
| System Controller Interface                    | R&S                 | SCI-100          | S10010038         | N/A              | N/A               |
| Filterbank                                     | R&S                 | Wlan             | 100759            | 2023-07-26       | 2024-07-25        |
| OSP                                            | R&S                 | OSP 120          | 102040            | N/A              | N/A               |
| Pre-amplifier                                  | R&S                 | SCU08F1          | 08320031          | 2023-07-26       | 2024-07-25        |
| Amplifier                                      | R&S                 | SCU-18F          | 180070            | 2023-07-26       | 2024-07-25        |
| Amplifier                                      | R&S                 | SCU40A           | 100475            | 2023-07-26       | 2024-07-25        |
| Trilog Broadband Antenna (30 MHz - 7 GHz)      | Schwarzbeck         | VULB 9162        | 193               | 2022-08-07       | 2024-08-06        |

|                                          |              |                   |              |            |            |
|------------------------------------------|--------------|-------------------|--------------|------------|------------|
| Double-Ridged Antenna (1 -18 GHz)        | ETS-LINDGREN | 3117              | 00218717     | 2022-08-07 | 2024-08-06 |
| Wideband Ridged Horn Antenna (18-40 GHz) | Steatite     | QMS-00880         | 19067        | 2022-08-28 | 2024-08-27 |
| Active Loop Antenna                      | Schwarzbeck  | FMZB 1513         | 302          | 2022-08-07 | 2024-08-06 |
| 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 | 2021-06-22 | 2024-06-22 |

| Conducted Emission       |              |                     |            |            |
|--------------------------|--------------|---------------------|------------|------------|
| Equipment                | Manufacturer | Model No.           | Serial No. | Cal. Until |
| EMI Test Receiver        | R&S          | ESR3                | 102680     | 2024-02-23 |
| Artificial Mains Network | R&S          | ENV216              | 101445     | 2024-02-23 |
| EMC32 test software      | R&S          | EMC32(Ver.10.50.00) | N/A        | N/A        |

## 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 (k=2)     |
|--------------------------------------------------------|-----------------------|
| 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              |
| Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz) | ± 3.70 dB / ± 3.30 dB |

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## 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) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. 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 (Equipment Under Test) is a DJI Goggles 3. It supports Bluetooth dual mode, 2.4GHz, 2.4GHz Wi-Fi, 5.2/5.8GHz Wi-Fi, 2.4GHz SDR, 5.2/5.8GHz SDR and GNSS functions.

\*Remark: SDR means specific defined radio and cannot changes radio specification via software/firmware by end-users.

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:                           | DJI Goggles 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Type Designation:                            | TKGS3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Trademark:                                   | DJI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| FCC ID:                                      | SS3-TKGS323                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| IC:                                          | 11805A-TKGS323                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PMN:                                         | DJI Goggles 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| HVIN:                                        | TKGS3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Operating Voltage:                           | 7.2V DC by built-in battery or DC 5V/9V by AC/DC adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Testing Voltage:                             | Fully charged battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Radiofrequency operating mode:               | <ol style="list-style-type: none"> <li>1) Bluetooth: operating within 2400-2483.5MHz, Classic Bluetooth (BR&amp;EDR), Bluetooth BLE (1Mbps&amp;2Mbps)</li> <li>2) 2.4GHz SDR: operating within 2400-2483.5MHz, supports 1.4MHz/3MHz/5MHz/10MHz/20MHz/40MHz/60MHz Bandwidth</li> <li>3) 2.4GHz Wi-Fi: operating within 2400-2483.5MHz, supports 20MHz/40MHz Bandwidth and IEEE 802.11 b/g/n20/n40</li> <li>4) 2.4GHz: operating within 2400-2483.5MHz, GFSK, 1Mbps&amp;2Mbps</li> <li>5) 5.2GHz Wi-Fi: operating with 5150-5250MHz, supports 20MHz/40MHz/80MHz Bandwidth and IEEE 802.11 a/n20/n40/ac20/ac40/ac80</li> <li>6) 5.2GHz SDR: operating within 5150-5250MHz, supports 10MHz/20MHz/40MHz Bandwidth *(For US only, not supported in IC)</li> <li>7) 5.8GHz SDR: operating within 5725-5850MHz, supports 1.4MHz/3MHz/5MHz/10MHz/20MHz/40MHz/60MHz/80MHz Bandwidth</li> <li>8) 5.8GHz Wi-Fi: operating within 5725-5850MHz, supports 20MHz/40MHz/80MHz Bandwidth and IEEE 802.11 a/n20/n40/ac20/ac40/ac80</li> </ol> |
| <b>Technical Specification of 5.8GHz SDR</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Operating Frequency:                         | 5728.5-5846.12MHz for 1.4MHz Bandwidth<br>5727.5-5844.5MHz for 3MHz Bandwidth<br>5732.5-5846.74MHz for 5MHz Bandwidth<br>5730.5-5844.5MHz for 10MHz Bandwidth<br>5735.5-5839.5MHz for 20MHz Bandwidth<br>5745.5-5829.5MHz for 40MHz Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                                                   |                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   | 5755.5-5819.5MHz for 60MHz Bandwidth<br>5765.5-5809.5MHz for 80MHz Bandwidth                                                                                                                                                                                                             |
| Type of Modulation:                               | OFDM (QPSK, 16QAM, 64QAM)                                                                                                                                                                                                                                                                |
| Channel Number:                                   | 194 channels for 1.4MHz Bandwidth<br>126 channels for 3MHz Bandwidth<br>239 channels for 5MHz Bandwidth<br>313 channels for 10MHz Bandwidth<br>105 channels for 20MHz Bandwidth<br>85 channels for 40MHz Bandwidth<br>65 channels for 60MHz Bandwidth<br>45 channels for 80MHz Bandwidth |
| Antenna Type:                                     | Integral Antennas                                                                                                                                                                                                                                                                        |
| Antenna Number:                                   | 1Tx for SISO mode (ANT0 or ANT1 or ANT2 or ANT3)<br>2Tx for MIMO mode (ANT0+ANT1, or ANT0+ANT3, or ANT2+ANT1,<br>or ANT2+ANT3, Uncorrelated signal)                                                                                                                                      |
| Antenna Gain:                                     | 2.5dBi for ANT0 / ANT1<br>3.5dBi for ANT2 / ANT3<br>(Provided by the Client)                                                                                                                                                                                                             |
| The type of wideband data transmission equipment: | DTS                                                                                                                                                                                                                                                                                      |
| <b>Technical Specification of 5.2GHz Wi-Fi</b>    |                                                                                                                                                                                                                                                                                          |
| Operating Frequency:                              | 5180–5240MHz for 802.11 a/n20/n40/ac20/ac40/ac80                                                                                                                                                                                                                                         |
| Type of Modulation:                               | OFDM(BPSK/QPSK/16QAM/64QAM)<br>OFDMA(BPSK/QPSK/16QAM/64QAM/256QAM)                                                                                                                                                                                                                       |
| Data Rate:                                        | 6/9/12/18/24/36/48/54 Mbps for 802.11a<br>MCS0 ~ MCS15 for 802.11 20/n40/ac20/ac40/ac80                                                                                                                                                                                                  |
| Channel Number:                                   | 4 channels for 802.11a/n20/ac20<br>2 channels for 802.11n40/ac40<br>1 channels for 802.11ac80                                                                                                                                                                                            |
| Channel Separation:                               | 20MHz, 40MHz, 80MHz                                                                                                                                                                                                                                                                      |
| Antenna Type:                                     | Integral Antenna                                                                                                                                                                                                                                                                         |
| Antenna Number:                                   | 1                                                                                                                                                                                                                                                                                        |
| Antenna Gain:                                     | 5 dBi (Provided by the Client)                                                                                                                                                                                                                                                           |
| <b>Technical Specification of 5.8GHz Wi-Fi</b>    |                                                                                                                                                                                                                                                                                          |
| Operating Frequency:                              | 5745–5825MHz for 802.11 a/n20/n40/ac20/ac40/ac80                                                                                                                                                                                                                                         |
| Type of Modulation:                               | OFDM(BPSK/QPSK/16QAM/64QAM)<br>OFDMA(BPSK/QPSK/16QAM/64QAM/256QAM)                                                                                                                                                                                                                       |
| Data Rate:                                        | 6/9/12/18/24/36/48/54 Mbps for 802.11a<br>MCS0 ~ MCS15 for 802.11 20/n40/ac20/ac40/ac80                                                                                                                                                                                                  |
| Channel Number:                                   | 5 channels for 802.11a/n20/ac20<br>2 channels for 802.11n40/ac40<br>1 channels for 802.11ac80                                                                                                                                                                                            |
| Channel Separation:                               | 20MHz, 40MHz, 80MHz                                                                                                                                                                                                                                                                      |
| Antenna Type:                                     | Integral Antenna                                                                                                                                                                                                                                                                         |
| Antenna Number:                                   | 1                                                                                                                                                                                                                                                                                        |
| Antenna Gain:                                     | 3.5 dBi (Provided by the Client)                                                                                                                                                                                                                                                         |

**Table 4: RF Channel and Frequency of 5GHz Wi-Fi**

| U-NII-3         |                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 20MHz Bandwidth |                 | 40MHz Bandwidth |                 | 80MHz Bandwidth |                 |
| Channel         | Frequency (MHz) | Channel         | Frequency (MHz) | Channel         | Frequency (MHz) |
| 149             | 5745            | 151             | 5755            | 155             | 5775            |
| 153             | 5765            | 159             | 5795            |                 |                 |
| 157             | 5785            |                 |                 |                 |                 |
| 161             | 5805            |                 |                 |                 |                 |
| 165             | 5825            |                 |                 |                 |                 |

| U-NII-1         |                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 20MHz Bandwidth |                 | 40MHz Bandwidth |                 | 80MHz Bandwidth |                 |
| Channel         | Frequency (MHz) | Channel         | Frequency (MHz) | Channel         | Frequency (MHz) |
| 36              | 5180            | 38              | 5190            | 42              | 5210            |
| 40              | 5200            | 46              | 5230            |                 |                 |
| 44              | 5220            |                 |                 |                 |                 |
| 48              | 5240            |                 |                 |                 |                 |

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 5.8GHz SDR wireless transmitting mode
  - 1) Low Channel
  - 2) Middle Channel
  - 3) High Channel
- B. On, 5.8GHz Wi-Fi wireless transmitting mode
  - 1) Low Channel
  - 2) Middle Channel
  - 3) High Channel
- C. On, 5.2GHz Wi-Fi wireless transmitting mode
  - 1) Low Channel
  - 2) Middle Channel
  - 3) High Channel

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- Application Form
- User Manual
- ID Label and Location Info
- Operation Description

## 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 testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model TKGS3 in this report.

### 4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

| Description   | Manufacturer | Model   | S/N       | Rating                                                                                                        |
|---------------|--------------|---------|-----------|---------------------------------------------------------------------------------------------------------------|
| Laptop        | Lenovo       | T480    | PF-16A6N8 | /                                                                                                             |
| AC/DC Adapter | /            | PD-30CN | /         | Input: 100-240V, 50/60Hz,<br>0.8A Max<br>Output: 3.3-11V, 2.72A or<br>5V/3A or 9V/3A or 12V/2.5A<br>or 15V/2A |

### 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)

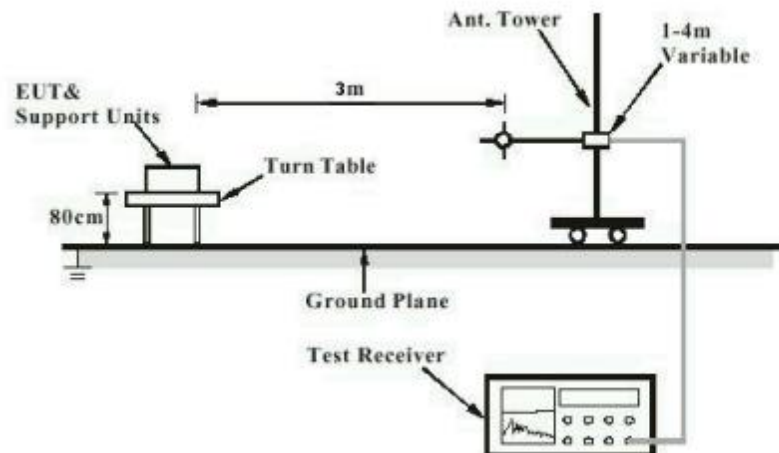
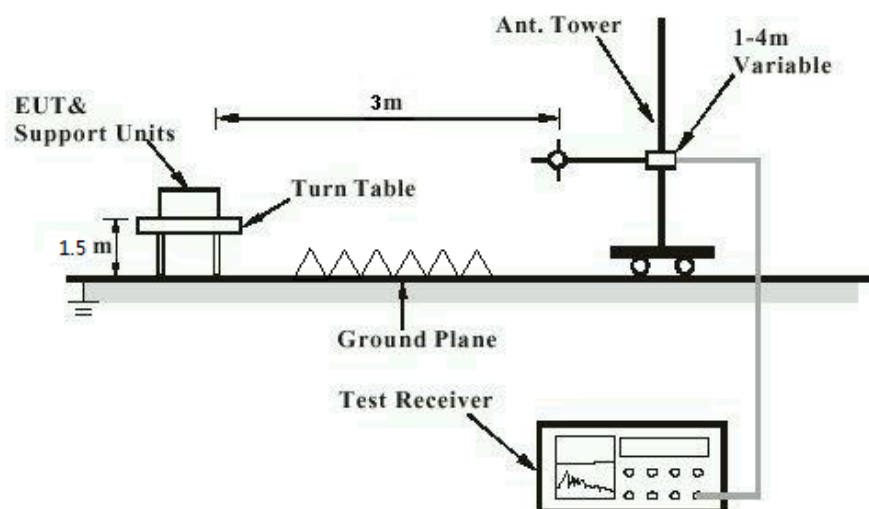
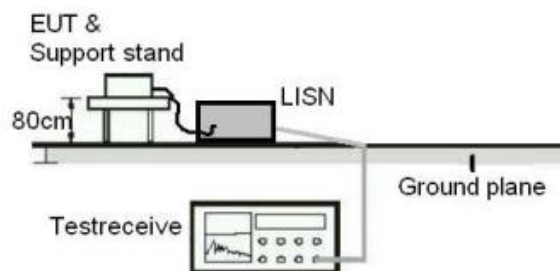


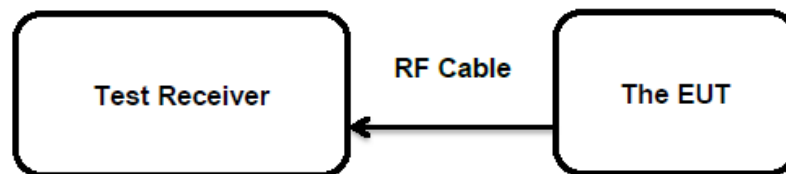
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



### Diagram of Measurement Configuration for Mains Conduction Measurement



### 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 15.203  
RSS-Gen Clause 6.8  
Limit : the use of antennas with directional gains that do not exceed 6 dBi

The EUT have Integral Antennas, the max. uncorrelated antenna gain antenna is 3.5dBi for 5.8GHz Wi-Fi, 3.5dBi for 5.8GHz SDR and 5dBi for 5.2GHz Wi-Fi, permanent attachment and no consideration of replacement..

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

Refer to EUT Photo for further details.

| Test Mode                                         | Data Rate | Test Channel | Conducted Average Power |               | Conducted power FCC Limit (W) | Average EIRP |               | EIRP ISED Limit (W)                                                                                 |
|---------------------------------------------------|-----------|--------------|-------------------------|---------------|-------------------------------|--------------|---------------|-----------------------------------------------------------------------------------------------------|
|                                                   |           |              | (dBm)                   | (W)           |                               | (dBm)        | (W)           |                                                                                                     |
| 802.11a                                           | 1 Mbps    | 36           | 13.83                   | 0.0242        | 0.25                          | 18.83        | 0.0764        | *200 mW (23dBm) or 10 dBm + 10 logB, where B is the 99% emission bandwidth in MHz, where is lesser. |
|                                                   |           | 40           | 13.64                   | 0.0231        |                               | 18.64        | 0.0731        |                                                                                                     |
|                                                   |           | 48           | 13.15                   | 0.0207        |                               | 18.15        | 0.0653        |                                                                                                     |
| 802.11n (HT20)                                    | MCS0      | 36           | 13.95                   | 0.0248        |                               | 18.95        | 0.0785        |                                                                                                     |
|                                                   |           | 40           | 13.84                   | 0.0242        |                               | 18.84        | 0.0766        |                                                                                                     |
|                                                   |           | 48           | 12.83                   | 0.0192        |                               | 17.83        | 0.0607        |                                                                                                     |
| 802.11n (HT40)                                    | MCS0      | 36           | 13.66                   | 0.0232        |                               | 18.66        | 0.0735        |                                                                                                     |
|                                                   |           | 40           | <b>13.95</b>            | <b>0.0248</b> |                               | <b>18.95</b> | <b>0.0785</b> |                                                                                                     |
| 802.11ac (VHT20)                                  | MCS0      | 48           | 13.06                   | 0.0202        |                               | 18.06        | 0.0640        |                                                                                                     |
|                                                   |           | 38           | 13.49                   | 0.0223        |                               | 18.49        | 0.0706        |                                                                                                     |
|                                                   |           | 46           | 12.82                   | 0.0191        |                               | 17.82        | 0.0605        |                                                                                                     |
| 802.11ac (VHT40)                                  | MCS0      | 38           | 13.38                   | 0.0218        |                               | 18.38        | 0.0689        |                                                                                                     |
|                                                   |           | 46           | 12.86                   | 0.0193        |                               | 17.86        | 0.0611        |                                                                                                     |
| 802.11ac (VHT80)                                  | MCS0      | 42           | 13.36                   | 0.0217        |                               | 18.36        | 0.0685        |                                                                                                     |
| The Maximum antenna Gain is 5dBi for U-NII-1 band |           |              |                         |               |                               |              |               |                                                                                                     |

**Table 7: Test Result of Maximum Conducted Output Power, 5.8GHz Wi-Fi**

| Test Mode                                                            | Data Rate | Test Channel (MHz) | Measured Average Power |               | Limit (W) |  |
|----------------------------------------------------------------------|-----------|--------------------|------------------------|---------------|-----------|--|
|                                                                      |           |                    | (dBm)                  | (W)           |           |  |
| 802.11a                                                              | 1 Mbps    | 5745               | 14.37                  | 0.0274        | < 1.0     |  |
|                                                                      |           | 5785               | 14.37                  | 0.0274        |           |  |
|                                                                      |           | 5825               | 14.63                  | 0.0290        |           |  |
| 802.11n (HT20)                                                       | MCS0      | 5745               | 14.79                  | 0.0301        |           |  |
|                                                                      |           | 5785               | 14.51                  | 0.0282        |           |  |
|                                                                      |           | 5825               | 15.35                  | <b>0.0343</b> |           |  |
| 802.11n (HT40)                                                       | MCS0      | 5755               | 14.56                  | 0.0286        |           |  |
|                                                                      |           | 5795               | 15.00                  | 0.0316        |           |  |
| 802.11ac (VHT20)                                                     | MCS0      | 5745               | 14.56                  | 0.0286        |           |  |
|                                                                      |           | 5785               | 14.63                  | 0.0290        |           |  |
|                                                                      |           | 5825               | 14.87                  | 0.0307        |           |  |
| 802.11ac (VHT40)                                                     | MCS0      | 5755               | 13.91                  | 0.0246        |           |  |
|                                                                      |           | 5795               | 15.17                  | 0.0329        |           |  |
| 802.11ac (VHT80)                                                     | MCS0      | 5775               | 14.06                  | 0.0255        |           |  |
| Maximum Measured Value                                               |           |                    | <b>15.35</b>           | <b>0.0343</b> |           |  |
| Max. e.i.r.p.=15.35dBm+3.5dBi=18.85dBm, which is less than 36dBm=4W. |           |                    |                        |               |           |  |

**Table 8: Test Result of Maximum Conducted Output Power, 5.8GHz SDR**

Worst case: SISO mode (ANT 1)

| Test Mode                     | Test Channel (MHz) | Measured Average Power |               | Limit (W) |
|-------------------------------|--------------------|------------------------|---------------|-----------|
|                               |                    | (dBm)                  | (W)           |           |
| 1.4MHz BW                     | 5728.5             | 25.70                  | 0.3715        | < 1.0     |
|                               | 5786.5             | 25.37                  | 0.3443        |           |
|                               | 5846.12            | 24.58                  | 0.2871        |           |
| 3MHz BW                       | 5727.5             | 26.68                  | 0.4656        |           |
|                               | 5787.2             | 25.39                  | 0.3459        |           |
|                               | 5847.2             | 25.89                  | 0.3882        |           |
| 5MHz BW                       | 5732.5             | 27.62                  | 0.5781        |           |
|                               | 5787.5             | 27.62                  | 0.5781        |           |
|                               | 5845.74            | 27.77                  | 0.5984        |           |
|                               | 5846.74            | -6.21                  | 0.0002        |           |
| 10MHz BW                      | 5730.5             | 25.94                  | 0.3926        |           |
|                               | 5786.5             | 27.72                  | 0.5916        |           |
|                               | 5844.5             | 25.25                  | 0.3350        |           |
| 20MHz BW                      | 5735.5             | 27.82                  | 0.6053        |           |
|                               | 5786.5             | 27.71                  | 0.5902        |           |
|                               | 5839.5             | 27.31                  | 0.5383        |           |
| 40MHz BW                      | 5745.5             | 23.81                  | 0.2404        |           |
|                               | 5786.5             | 26.78                  | 0.4764        |           |
|                               | 5790.5             | 24.94                  | 0.3119        |           |
|                               | 5810.5             | 23.26                  | 0.2118        |           |
|                               | 5820.5             | 22.86                  | 0.1932        |           |
|                               | 5826.5             | 22.37                  | 0.1726        |           |
|                               | 5829.5             | 22.16                  | 0.1644        |           |
| 60MHz BW                      | 5755.5             | 21.54                  | 0.1426        |           |
|                               | 5765.5             | 21.72                  | 0.1486        |           |
|                               | 5786.5             | 24.65                  | 0.2917        |           |
|                               | 5810.5             | 21.84                  | 0.1528        |           |
|                               | 5819.5             | 21.17                  | 0.1309        |           |
| 80MHz BW                      | 5765.5             | 18.63                  | 0.0729        |           |
|                               | 5785.5             | 18.67                  | 0.0736        |           |
|                               | 5786.5             | 24.43                  | 0.2773        |           |
|                               | 5789.5             | 18.80                  | 0.0759        |           |
|                               | 5809.5             | 18.27                  | 0.0671        |           |
| <b>Maximum Measured Value</b> |                    | <b>27.82</b>           | <b>0.6053</b> |           |

Max. e.i.r.p.=27.82dBm+2.5dBi=30.32dBm, which is less than 36dBm=4W.

Antenna Gain: 2.5dBi for Ant1

Worst case: MIMO mode (ANT 0+3)

| Test Mode                                                            | Test Channel<br>(MHz) | Measured Average Power |        | Limit<br>(W) |  |
|----------------------------------------------------------------------|-----------------------|------------------------|--------|--------------|--|
|                                                                      |                       | (dBm)                  | (W)    |              |  |
| 1.4MHz BW                                                            | 5728.5                | 25.53                  | 0.3573 | < 1.0        |  |
|                                                                      | 5786.5                | 25.81                  | 0.3811 |              |  |
|                                                                      | 5846.12               | 28.05                  | 0.6383 |              |  |
| 3MHz BW                                                              | 5727.5                | 28.54                  | 0.7145 |              |  |
|                                                                      | 5787.2                | 28.77                  | 0.7534 |              |  |
|                                                                      | 5847.2                | 28.56                  | 0.7178 |              |  |
| 5MHz BW                                                              | 5732.5                | 28.59                  | 0.7228 |              |  |
|                                                                      | 5787.5                | 27.30                  | 0.5370 |              |  |
|                                                                      | 5845.74               | 28.47                  | 0.7031 |              |  |
| 10MHz BW                                                             | 5730.5                | 28.60                  | 0.7244 |              |  |
|                                                                      | 5786.5                | 28.82                  | 0.7621 |              |  |
|                                                                      | 5844.5                | 28.71                  | 0.7430 |              |  |
| 20MHz BW                                                             | 5735.5                | 28.56                  | 0.7178 |              |  |
|                                                                      | 5786.5                | 28.81                  | 0.7603 |              |  |
|                                                                      | 5839.5                | 28.75                  | 0.7499 |              |  |
| 40MHz BW                                                             | 5745.5                | 23.98                  | 0.2500 |              |  |
|                                                                      | 5786.5                | 26.25                  | 0.4217 |              |  |
|                                                                      | 5827.5                | 23.56                  | 0.2270 |              |  |
|                                                                      | 5828.5                | 23.09                  | 0.2037 |              |  |
|                                                                      | 5829.5                | 22.63                  | 0.1832 |              |  |
| 60MHz BW                                                             | 5755.5                | 23.65                  | 0.2317 |              |  |
|                                                                      | 5786.5                | 24.16                  | 0.2606 |              |  |
|                                                                      | 5819.5                | 23.26                  | 0.2118 |              |  |
| 80MHz BW                                                             | 5765.5                | 24.21                  | 0.2636 |              |  |
|                                                                      | 5786.5                | 24.06                  | 0.2547 |              |  |
|                                                                      | 5809.5                | 23.78                  | 0.2388 |              |  |
| Maximum Measured Value                                               |                       | 28.81                  | 0.7603 |              |  |
| Max. e.i.r.p.=28.81dBm+3.5dBi=32.31dBm, which is less than 36dBm=4W. |                       |                        |        |              |  |

Note:

- 1) The cable loss is taken into account in results,  $e.i.r.p. = P_{(Peak\ power)} + G$
- 2) Antenna gain(G) of 5.8GHz Wi-Fi : 3.5dBi  
Antenna gain(G) of 5.2GHz Wi-Fi : 5dBi  
Antenna gain(G) of 5.8GHz SDR: 3.5dBi (uncorrelated Singals)

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### 5.1.3 Conducted Power Spectral Density

RESULT:

Pass

**Test Specification**

Test standard : FCC Part 15.407 (a)  
RSS-247 clause 6.2

Basic standard : ANSI C63.10: 2013  
FCC:  
<11dBm/MHz (5150-5250MHz)  
<30dBm/500KHz (5725-5850MHz)

Limits : IC:  
e.i.r.p. spectral density <10dBm/MHz (5150-5250MHz)  
<30dBm/500KHz (5725-5850MHz)

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-11-28 to 2024-01-03

Input voltage : Fully charged battery

Operation mode : A, B, C

Test channel : Low / Middle / High

Ambient temperature : 25.2 °C

Relative humidity : 37 %

Atmospheric pressure : 101 kPa

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

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## 5.1.4 Frequency Stability

RESULT:

Pass

### Test Specification

Test standard : FCC Part 15.407 (g)  
RSS-Gen Clause 6.11

Basic standard : ANSI C63.10: 2013

Limits : Within assigned bands

Kind of test site : Shielded Room

### Test Setup

Date of testing : 2023-11-28 to 2024-01-03

Input voltage : Fully charged battery

Operation mode : A, B, C

Test channel : Low / Middle / High

Ambient temperature : 25.2 °C

Relative humidity : 37 %

Atmospheric pressure : 101 kPa

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

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### 5.1.5 6dB Bandwidth

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

Test standard : FCC Part 15.407 (e)  
RSS-247 clause 6.2.4.1

Basic standard : ANSI C63.10: 2013

Limits : At least 500KHz (5725-5850MHz)

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-11-28 to 2024-01-03

Input voltage : Fully charged battery

Operation mode : A, B

Test channel : Low / Middle / High

Ambient temperature : 25.2 °C

Relative humidity : 37 %

Atmospheric pressure : 101 kPa

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

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### 5.1.6 99% Bandwidth

**RESULT:**

**Pass**

#### Test Specification

Test standard : FCC Part 15.407  
RSS-Gen Clause 6.6  
Basic standard : ANSI C63.10: 2013  
Limits : N/A  
Kind of test site : Shielded Room

#### Test Setup

Date of testing : 2023-11-28 to 2024-01-03  
Input voltage : Fully charged battery  
Operation mode : A, B, C  
Test channel : Low / Middle / High  
Ambient temperature : 25.2 °C  
Relative humidity : 37 %  
Atmospheric pressure : 101 kPa

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

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## 5.1.7 Radiated Spurious Emission

**RESULT:**

**Pass**

### Test Specification

Test standard : FCC Part 15.407(b) & FCC Part 15.205 & FCC Part 15.209  
 RSS-247 clause 6.2 & RSS-GEN clause 8.9 and 8.10

Basic standard : ANSI C63.10: 2013

Limits

- For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.  
 Emissions outside the band 5470-5600 MHz and 5650-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.
- For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.  
 Restricted Bands meet the requirement of 15.209 limit and RSS-GEN

Kind of test site : 3m Semi-anechoic Chamber

### Test Setup

Date of testing : 2023-12-03 to 2023-12-30

Input voltage : Fully charged battery

Operation mode : A, B, C

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, C.

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### 5.1.8 Conducted Emission on AC Mains

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

Test standard : FCC Part 15.207(a)  
RSS-Gen Section 8.8

Basic standard : ANSI C63.10: 2013

Frequency range : 0.15 – 30MHz

Classification : Class B

Limits : FCC Part 15.207(a)  
RSS-Gen Table 4

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-11-24

Input voltage : AC 120V, 60Hz

Operation mode : A, B, C

Earthing : Not connected

Ambient temperature : 25.0 °C

Relative humidity : 51.2 %

Atmospheric pressure : 101 kPa

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

## 6 Photographs of the Test Set-Up

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

## 7 List of Tables

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