

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                         |                                                 |                                                 |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>CN247569 001</b>                                                                                                                                                                                                     | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>       | <b>170386300</b>                                | Seite 1 von 24<br>Page 1 of 24                                                        |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                          | --                                                                                                                                                                                                                      | <b>Auftragsdatum:</b><br><i>Order date:</i>     | 2024-08-19                                      |                                                                                       |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                               | Allstar Products Group<br>2 SKYLINE DRIVE HAWTHORNE NEW YORK #10532 USA                                                                                                                                                 |                                                 |                                                 |                                                                                       |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                          | SWFT eScooter                                                                                                                                                                                                           |                                                 |                                                 |                                                                                       |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                   | SWFT-SD14-BLK, SWFT-XPRP-BLK                                                                                                                                                                                            |                                                 |                                                 |                                                                                       |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     | Test Report                                                                                                                                                                                                             |                                                 |                                                 |                                                                                       |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  | CFR47 FCC Part 15: Subpart C Section 15.247<br>RSS-247 Issue 3 August 2023<br>RSS-Gen Issue 5 February 2021                                                                                                             |                                                 |                                                 |                                                                                       |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                                         | 2024-08-19                                                                                                                                                                                                              | Please refer to photo documents                 |                                                 |                                                                                       |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                    | A003807316                                                                                                                                                                                                              |                                                 |                                                 |                                                                                       |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                                       | Refer to test report                                                                                                                                                                                                    |                                                 |                                                 |                                                                                       |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  | TÜV Rheinland<br>(Guangdong) Ltd.                                                                                                                                                                                       |                                                 |                                                 |                                                                                       |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                               | TÜV Rheinland<br>(Guangdong) 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>  |  |
| <b>Datum:</b><br><i>Date:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2024-11-29                                                                                                                                                                                                              | Signed by: Webb Luo                             | <b>Ausstellungsdatum:</b><br><i>Issue date:</i> | 2024-12-30<br>Signed by: Amy Wang                                                     |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          | Project Engineer                                                                                                                                                                                                        |                                                 | <b>Stellung / Position:</b>                     | Authorizer                                                                            |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            | This report is for 2.4GHz BT evaluated.<br>FCC ID:2APZ3SD, IC:4238A-SD (for model SWFT-SD14-BLK)<br>FCC ID:2APZ3XPRP, IC:4238A-XPRP (for model SWFT-XPRP-BLK)<br>HVIN: SWFT-SD14-BLK, SWFT-XPRP-BLK, PMN: SWFT eScooter |                                                 |                                                 |                                                                                       |
| <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>                                                                                                                                      |                                                 |                                                 |                                                                                       |
| * Legende:                                                                                                                                                                                                                                                                                                                                                                                                                                                           | P(ass) = entspricht o.g. Prüfgrundlage(n)                                                                                                                                                                               | F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | N/A = nicht anwendbar                           | N/T = nicht getestet                                                                  |
| * 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                                                                      |
| <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> |                                                                                                                                                                                                                         |                                                 |                                                 |                                                                                       |

Prüfbericht-Nr.: CN247569 001  
Test report no.:

Seite 2 von 24  
Page 2 of 24

**Anmerkungen**  
*Remarks*

- |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> | <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 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>2</b> | <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> |
| <b>3</b> | <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.<br/>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>4</b> | <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>                                                                                                                                                                                                                                                                                       |

## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

RESULT: Pass

**5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER**

RESULT: Pass

**5.1.3 99% BANDWIDTH**

RESULT: Pass

**5.1.4 20dB BANDWIDTH**

RESULT: Pass

**5.1.5 CARRIER FREQUENCY SEPARATION**

RESULT: Pass

**5.1.6 NUMBER OF HOPPING FREQUENCY**

RESULT: Pass

**5.1.7 TIME OF OCCUPANCY**

RESULT: Pass

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

RESULT: Pass

**5.1.9 RADIATED SPURIOUS EMISSION**

RESULT: Pass

**5.1.10 CONDUCTED EMISSION ON AC MAINS**

RESULT: N/A

## Contents

|            |                                                                  |           |
|------------|------------------------------------------------------------------|-----------|
| <b>1</b>   | <b>GENERAL REMARKS .....</b>                                     | <b>5</b>  |
| <b>1.1</b> | <b>COMPLEMENTARY MATERIALS .....</b>                             | <b>5</b>  |
| <b>2</b>   | <b>TEST SITES .....</b>                                          | <b>5</b>  |
| <b>2.1</b> | <b>TEST FACILITIES .....</b>                                     | <b>5</b>  |
| <b>2.2</b> | <b>LIST OF TEST AND MEASUREMENT INSTRUMENTS.....</b>             | <b>5</b>  |
| <b>2.3</b> | <b>TRACEABILITY .....</b>                                        | <b>6</b>  |
| <b>2.4</b> | <b>CALIBRATION .....</b>                                         | <b>6</b>  |
| <b>2.5</b> | <b>MEASUREMENT UNCERTAINTY.....</b>                              | <b>7</b>  |
| <b>2.6</b> | <b>LOCATION OF ORIGINAL DATA.....</b>                            | <b>7</b>  |
| <b>2.7</b> | <b>STATUS OF FACILITY USED FOR TESTING.....</b>                  | <b>7</b>  |
| <b>3</b>   | <b>GENERAL PRODUCT INFORMATION .....</b>                         | <b>8</b>  |
| <b>3.1</b> | <b>PRODUCT FUNCTION AND INTENDED USE.....</b>                    | <b>8</b>  |
| <b>3.2</b> | <b>RATINGS AND SYSTEM DETAILS .....</b>                          | <b>8</b>  |
| <b>3.3</b> | <b>INDEPENDENT OPERATION MODES .....</b>                         | <b>10</b> |
| <b>3.4</b> | <b>NOISE GENERATING AND NOISE SUPPRESSING PARTS.....</b>         | <b>10</b> |
| <b>3.5</b> | <b>SUBMITTED DOCUMENTS.....</b>                                  | <b>10</b> |
| <b>4</b>   | <b>TEST SET-UP AND OPERATION MODES .....</b>                     | <b>11</b> |
| <b>4.1</b> | <b>PRINCIPLE OF CONFIGURATION SELECTION .....</b>                | <b>11</b> |
| <b>4.2</b> | <b>TEST OPERATION AND TEST SOFTWARE .....</b>                    | <b>11</b> |
| <b>4.3</b> | <b>SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT .....</b>         | <b>11</b> |
| <b>4.4</b> | <b>COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....</b>            | <b>11</b> |
| <b>4.5</b> | <b>TEST SETUP DIAGRAM.....</b>                                   | <b>12</b> |
| <b>5</b>   | <b>TEST RESULTS .....</b>                                        | <b>14</b> |
| <b>5.1</b> | <b>TRANSMITTER REQUIREMENT &amp; TEST SUITES .....</b>           | <b>14</b> |
| 5.1.1      | Antenna Requirement .....                                        | 14        |
| 5.1.2      | Maximum Peak Conducted Output Power .....                        | 15        |
| 5.1.3      | 99% Bandwidth .....                                              | 16        |
| 5.1.4      | 20dB Bandwidth .....                                             | 17        |
| 5.1.5      | Carrier Frequency Separation.....                                | 18        |
| 5.1.6      | Number of Hopping Frequency .....                                | 19        |
| 5.1.7      | Time of Occupancy .....                                          | 20        |
| 5.1.8      | Conducted Spurious Emissions Measured in 100 kHz Bandwidth ..... | 21        |
| 5.1.9      | Radiated Spurious Emission .....                                 | 22        |
| 5.1.10     | Conducted Emission on AC Mains .....                             | 23        |
| <b>6</b>   | <b>PHOTOGRAPHS OF THE TEST SET-UP .....</b>                      | <b>24</b> |
| <b>7</b>   | <b>LIST OF TABLES.....</b>                                       | <b>24</b> |

## 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 mode

Appendix B: Test Results of the Test Set-up

## 2 Test Sites

### 2.1 Test Facilities

**TÜV Rheinland (Guangdong) Ltd. EMC Laboratory.**

1&2/F, Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, China

A2LA Cert. No.: 4302.01

FCC Accreditation Designation No.: 234821

ISED wireless device testing laboratory: 2932C

### 2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Radio Spectrum Testing (SRD-Tonscend)   |                          |                               |            |            |
|-----------------------------------------|--------------------------|-------------------------------|------------|------------|
| Equipment                               | Manufacturer             | Model                         | Serial No. | Cal. until |
| Spectrum Analyzer                       | FSP30                    | Rohde & Schwarz               | 100286     | 2025-12-03 |
| Signal Generator                        | SMB100A                  | Rohde & Schwarz               | 115613     | 2025-03-04 |
| Climatic Chamber                        | EL-04KA                  | GZ-ESPEC                      | 6107116    | 2025-03-04 |
| Attenuator                              | 3.5TS2-6dB-26.5G         | SHX                           | 12042001   | 2025-02-28 |
| Combiner/Divider                        | 1515                     | Weinschel                     | PG325      | 2025-02-28 |
| RF Control Unit                         | JS0806-2                 | Tonscend Technology           | N/A        | 2025-03-22 |
| Unwanted Emission Testing               |                          |                               |            |            |
| Equipment                               | Manufacturer             | Model                         | Serial No. | Cal. until |
| EMI Test Receiver                       | ESW 8                    | Rohde & Schwarz               | 101312     | 2025-11-16 |
| Trilog-Broadband Antenna                | VULB9168<br>(30MHz-1GHz) | SCHWARZBECK<br>MESSELEKTRONIK | 684        | 2025-08-28 |
| Double-Ridged<br>Waveguide Horn Antenna | HF907<br>(1-18GHz)       | Rohde & Schwarz               | 100377     | 2026-03-07 |

|                            |                         |                     |                   |                   |
|----------------------------|-------------------------|---------------------|-------------------|-------------------|
| Pre-amplifier              | TAP01018050             | Tonscend Technology | AP23L8060327      | 2025-01-02        |
| Band Reject Filter         | BRM50702                | Micro-Tronics       | 023               | 2026-07-11        |
| Standard Gain Horn Antenna | 3160-09<br>(18-26.5GHz) | EMCO                | 21642             | 2025-01-16        |
| Pre-amplifier              | AFS33-18002650-30-8P-44 | MITEQ               | 1108282           | 2025-08-01        |
| Loop Antenna               | HFH2-Z2<br>(<30MHz)     | Rohde & Schwarz     | 100111            | 2025-06-12        |
| EMI Test Receiver          | ESW 8                   | Rohde & Schwarz     | 101312            | 2024-11-16        |
| EMC32 test software        | R&S                     | EMC32(Ver.10.50.00) | N/A               | N/A               |
| <b>Conducted Emission</b>  |                         |                     |                   |                   |
| <b>Equipment</b>           | <b>Manufacturer</b>     | <b>Model No.</b>    | <b>Serial No.</b> | <b>Cal. Until</b> |
| Spectrum Analyzer          | FSP30                   | Rohde & Schwarz     | 100286            | 2025-12-03        |
| Power Meter                | NRX                     | Rohde & Schwarz     | 100863            | 2025-03-04        |
| Average Power Sensor       | NRP6A                   | Rohde & Schwarz     | 106142            | 2025-03-04        |
| RF Control Unit            | JS0806-2                | Tonscend Technology | N/A               | 2025-03-22        |
| 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                             | ± 1.15 dB             |
| Occupied Channel Bandwidth                             | ± 1.38 %              |
| RF power density, conducted                            | ± 1.15 dB             |
| Unwanted Emissions, conducted                          | ± 1.15 dB             |
| All emissions, radiated(below 1GHz)                    | ±5.34 dB              |
| All emissions, radiated(1~6 GHz)                       | ±4.56 dB              |
| All emissions, radiated(6~18 GHz)                      | ±4.60 dB              |
| Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz) | ± 2.16 dB / ± 1.98 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 (Guangdong) Ltd. EMC Laboratory. file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory. Test facility located at 1&2/F, Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, 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 EUTs SWFT-SD14-BLK and SWFT-XPRP-BLK are SWFT eScooter which have that wireless BT and NFC function.

The EUT stream music wirelessly through BT link.

They use the same circuit designs and the wireless modules except for the different appearance

Therefore, all tests were performed on one representative model SWFT-SD14-BLK, and additional RSE tests were performed on one representative model SWFT-XPRP-BLK.

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:                   | SWFT eScooter                                                                                   |
| Type Designation:                    | SWFT-SD14-BLK, SWFT-XPRP-BLK                                                                    |
| Trademark:                           |  <b>SWFT</b> |
| FCC ID:                              | 2APZ3SD (for model SWFT-SD14-BLK)<br>2APZ3XPRP (for model SWFT-XPRP-BLK)                        |
| IC:                                  | 4238A-SD (for model SWFT-SD14-BLK)<br>4238A-XPRP (for model SWFT-XPRP-BLK)                      |
| HVIN:                                | SWFT-SD14-BLK, SWFT-XPRP-BLK                                                                    |
| PMN:                                 | SWFT eScooter                                                                                   |
| Rating:                              | DC 36.0V, 7.8AH Li-ion intergral<br>DC 42.0V, 1.5A (for charging mode)                          |
| Operating Voltage:                   | DC 36.0V, 7.8AH Li-ion                                                                          |
| Operating Temperature Range:         | -10°C to +55°C                                                                                  |
| Technical Specification of Bluetooth |                                                                                                 |
| Operating Frequency:                 | 2402 MHz to 2480 MHz                                                                            |
| Type of Modulation:                  | GFSK, $\pi/4$ -DQPSK, 8DPSK                                                                     |
| Channel Number:                      | BR & EDR mode:79 channels,                                                                      |
| Channel Separation:                  | BR & EDR mode:1MHz                                                                              |
| Data Rate:                           | BR & EDR mode: 1Mbps, 2Mbps, 3Mbps                                                              |
| Antenna Type:                        | Integral Antenna                                                                                |
| Antenna Gain:                        | -0.68 dBi (Provided by the Client)                                                              |

Note: All information is provided by customer confirmation.

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) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| <b>0</b>   | <b>2402.00</b>  | 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         | <b>2480.00</b>  |
| 19         | 2421.00         | 39         | <b>2441.00</b>  | 59         | 2461.00         |            |                 |

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

### 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, Transmitting on Hopping channel
- C. On, for charging mode
- D. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- |                              |                         |
|------------------------------|-------------------------|
| - Application Form           | - Operation Description |
| - ID Label and Location Info | - Block Diagram         |
| - Schematics                 | - PCB Layout            |

## 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: 2013.

### 4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model | Remark    |
|-------------|--------------|-------|-----------|
| Notebook    | Lenovo       | T14   | PF-35VTG1 |

### 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)

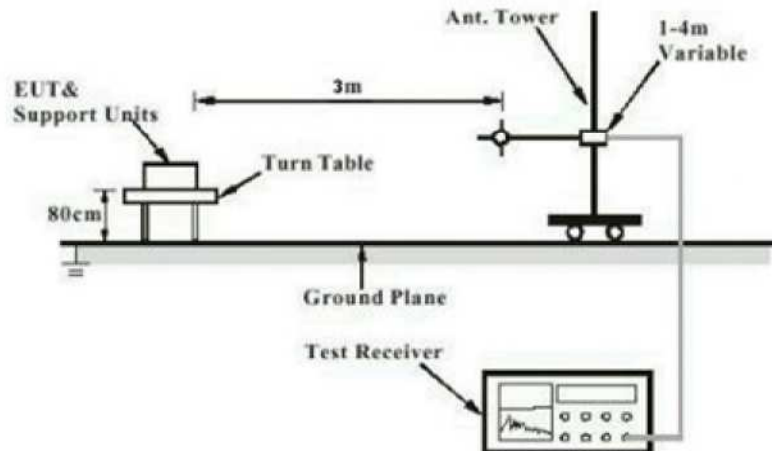
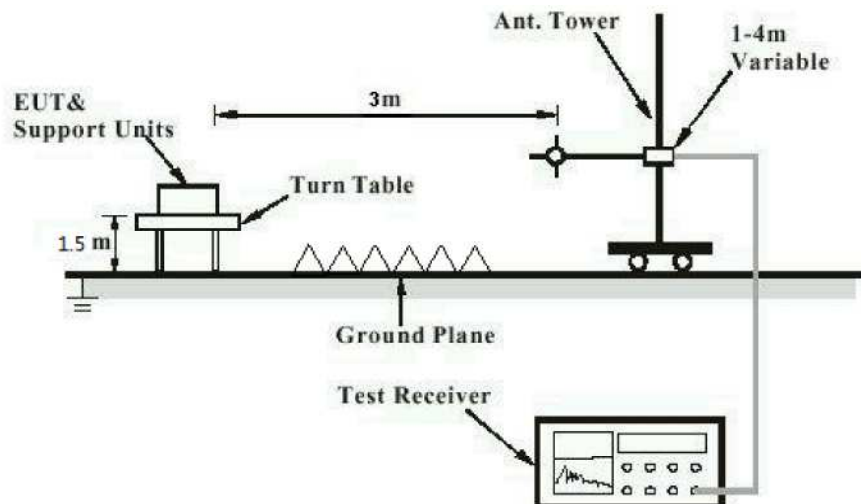
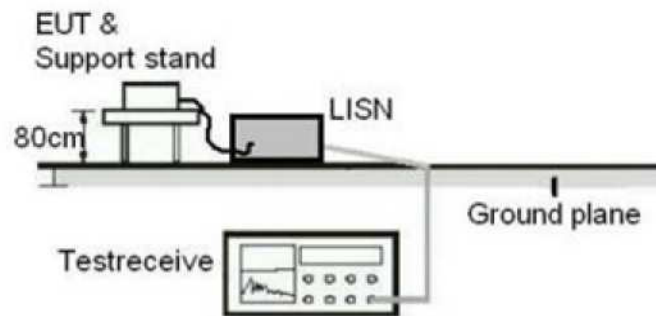


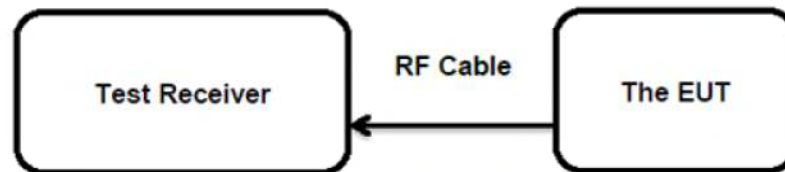
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



**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 15.247(b)(4) and Part 15.203  
RSS-Gen Clause 6.8

The EUT has an Integral Antenna, the directional gain of antenna is -0.68 dBi, and the antenna connector is designed with 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.

## 5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

### Test Specification

Test standard : FCC Part 15.247(b)(1)&(3)  
RSS-247 Clause 5.4(b)&(d)  
Basic standard : ANSI C63.10: 2013  
Limits : FHSS < 0.125 Watts, DSSS < 1.0 Watts  
Kind of test site : Shielded Room

### Test Setup

Date of testing : 2024-09-04 to 2024-09-30  
Input voltage : Internal battery operated  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 22 °C  
Relative humidity : 55 %  
Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 6: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR

| Test Mode   | Test Channel (MHz) | Measured Peak Power |        | Limit (W) |
|-------------|--------------------|---------------------|--------|-----------|
|             |                    | (dBm)               | (mW)   |           |
| GFSK (BR)   | 2402.0             | -10.18              | 0.0959 | < 1.0     |
|             | 2441.0             | -10.39              | 0.0914 |           |
|             | 2480.0             | -9.08               | 0.1235 |           |
| 8DPSK (EDR) | 2402.0             | -10.12              | 0.0973 | < 0.125   |
|             | 2441.0             | -10.45              | 0.0902 |           |
|             | 2480.0             | -8.78               | 0.1324 |           |

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): -0.68 dBi

### 5.1.3 99% Bandwidth

**RESULT:**

**Pass**

#### Test Specification

Test standard : FCC Part 15.247(a)  
RSS-Gen Clause 6.7  
Basic standard : ANSI C63.10: 2013  
Kind of test site : Shielded Room

#### Test Setup

Date of testing : 2024-09-04 to 2024-09-30  
Input voltage : Internal battery operated  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 22°C  
Relative humidity : 55 %  
Atmospheric pressure : 101 kPa

**Table 7: Test Result of 99% Bandwidth, General 2.4GHz**

| TestMode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402                   | 0.975     | 2401.6280 | 2402.6030 | ----       | ----    |
| DH5      | Ant1    | 2441                   | 1.002     | 2440.6220 | 2441.6240 | ----       | ----    |
| DH5      | Ant1    | 2480                   | 0.999     | 2479.6250 | 2480.6240 | ----       | ----    |
| 2DH5     | Ant1    | 2402                   | 1.383     | 2401.4210 | 2402.8040 | ----       | ----    |
| 2DH5     | Ant1    | 2441                   | 1.41      | 2440.4000 | 2441.8100 | ----       | ----    |
| 2DH5     | Ant1    | 2480                   | 1.329     | 2479.4600 | 2480.7890 | ----       | ----    |
| 3DH5     | Ant1    | 2402                   | 1.425     | 2401.3760 | 2402.8010 | ----       | ----    |
| 3DH5     | Ant1    | 2441                   | 1.404     | 2440.4000 | 2441.8040 | ----       | ----    |
| 3DH5     | Ant1    | 2480                   | 1.275     | 2479.4810 | 2480.7560 | ----       | ----    |

## 5.1.4 20dB Bandwidth

**RESULT:** **Pass**

### Test Specification

Test standard : FCC Part 15.247(a)(1)  
RSS-247 Clause 5.1(a)  
Basic standard : ANSI C63.10: 2013  
Kind of test site : Shielded Room

### Test Setup

Date of testing : 2024-09-04 to 2024-09-30  
Input voltage : Internal battery operated  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 22 °C  
Relative humidity : 55 %  
Atmospheric pressure : 101 kPa

**Table 8: Test Result of 20dB Bandwidth, General 2.4GHz**

| TestMode | Antenna | Frequency[MHz] | BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|----------|---------|---------|------------|---------|
| DH5      | Ant1    | 2402           | 1.06     | 2401.57 | 2402.63 | ---        | ---     |
| DH5      | Ant1    | 2441           | 1.07     | 2440.58 | 2441.65 | ---        | ---     |
| DH5      | Ant1    | 2480           | 1.05     | 2479.60 | 2480.65 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.39     | 2401.43 | 2402.82 | ---        | ---     |
| 2DH5     | Ant1    | 2441           | 1.37     | 2440.45 | 2441.82 | ---        | ---     |
| 2DH5     | Ant1    | 2480           | 1.34     | 2479.46 | 2480.80 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.35     | 2401.45 | 2402.80 | ---        | ---     |
| 3DH5     | Ant1    | 2441           | 1.35     | 2440.45 | 2441.80 | ---        | ---     |
| 3DH5     | Ant1    | 2480           | 1.33     | 2479.46 | 2480.78 | ---        | ---     |

### 5.1.5 Carrier Frequency Separation

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

|                   |                                                                      |
|-------------------|----------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(a)(1)<br>RSS-247 Clause 5.1(b)                     |
| Basic standard    | : ANSI C63.10: 2013                                                  |
| 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      | : 2024-09-04 to 2024-09-30  |
| Input voltage        | : Internal battery operated |
| Operation mode       | : B                         |
| Test channel         | : Low / Middle / High       |
| Ambient temperature  | : 22 °C                     |
| Relative humidity    | : 55 %                      |
| Atmospheric pressure | : 101 kPa                   |

For the measurement records, refer to the appendix A.

### 5.1.6 Number of Hopping Frequency

RESULT:

Pass

**Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)  
RSS-247 Clause 5.1(d)  
Basic standard : ANSI C63.10: 2013  
Limits :  $\geq 15$  non-overlapping channels  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024-09-04 to 2024-09-30  
Input voltage : Internal battery operated  
Operation mode : B  
Ambient temperature : 22 °C  
Relative humidity : 55 %  
Atmospheric pressure : 101 kPa

For details refer to following test result.

**Table 9: Test Result of Number of Hopping Frequency, General 2.4GHz**

| Test Mode | Frequency Range | Measured Quantity of Hopping Channel | Limit     |
|-----------|-----------------|--------------------------------------|-----------|
| FHSS      | 2402 - 2480 MHz | 79                                   | $\geq 15$ |

### 5.1.7 Time of Occupancy

RESULT:

Pass

**Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)  
RSS-247 Clause 5.1(d)  
Basic standard : ANSI C63.10: 2013  
Limits : < 0.4s  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024-09-04 to 2024-09-30  
Input voltage : Internal battery operated  
Operation mode : B  
Test channel : Low / Middle / High  
Ambient temperature : 22 °C  
Relative humidity : 55 %  
Atmospheric pressure : 101 kPa

For details refer to following test result.

**Table 10: Test Result of Time of Occupancy**

| Test Mode | Test Channel (MHz) | Pulse Width(ms) | Number of Channels | Measured Dwell Time(s) | Limit (s) |
|-----------|--------------------|-----------------|--------------------|------------------------|-----------|
| BDR       | 2402               | 0.336           | 330                | 0.111                  | 0.4s      |
|           | 2441               | 0.336           | 330                | 0.111                  |           |
|           | 2480               | 0.336           | 330                | 0.111                  |           |

| Test Mode | Test Channel (MHz) | Pulse Width(ms) | Number of Channels | Measured Dwell Time(s) | Limit (s) |
|-----------|--------------------|-----------------|--------------------|------------------------|-----------|
| EDR       | 2402               | 2.890           | 110                | 0.318                  | 0.4s      |
|           | 2441               | 2.890           | 110                | 0.318                  |           |
|           | 2480               | 2.890           | 110                | 0.318                  |           |

Note:

Dwell time = Pulse width x Number of channels in Period

Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

**5.1.8 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

|                   |                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(d)<br>RSS-247 Clause 5.5                                                                                                                                                                                                                         |
| Basic standard    | : ANSI C63.10: 2013                                                                                                                                                                                                                                                |
| Limits            | : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);<br>In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a) |
| Kind of test site | : Shielded Room                                                                                                                                                                                                                                                    |

**Test Setup**

|                      |                             |
|----------------------|-----------------------------|
| Date of testing      | : 2024-09-04 to 2024-09-30  |
| Input voltage        | : Internal battery operated |
| Operation mode       | : A                         |
| Test channel         | : Low / Middle / High       |
| Ambient temperature  | : 22 °C                     |
| Relative humidity    | : 55 %                      |
| 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.

### 5.1.9 Radiated Spurious Emission

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

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(d) & FCC Part 15.205<br>RSS-247 Clause 3.3             |
| Basic standard    | : ANSI C63.10: 2013                                                      |
| 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      | : 2024-09-04 to 2024-09-30  |
| Input voltage        | : Internal battery operated |
| Operation mode       | : A                         |
| 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.

**Prüfbericht - Nr.: CN247569 001**  
Test Report No.:Seite 23 von 24  
Page 23 of 24**5.1.10 Conducted Emission on AC Mains****RESULT:****N/A****Test Specification**

|                   |                                            |
|-------------------|--------------------------------------------|
| Test standard     | : FCC Part 15.207(a)<br>RSS-Gen Clause 8.8 |
| Basic standard    | : ANSI C63.4:2014                          |
| Frequency range   | : 0.15 – 30MHz                             |
| Classification    | : Class B                                  |
| Limits            | : FCC Part 15.207(a)<br>RSS-Gen Table 4    |
| Kind of test site | : Shielded Room                            |

Note: Bluetooth function will be disabled when product is in charging.

## 6 Photographs of the Test Set-Up

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

## 7 List of Tables

|                                                                                       |    |
|---------------------------------------------------------------------------------------|----|
| Table 1: List of Test and Measurement Equipment.....                                  | 5  |
| Table 2: Measurement Uncertainty.....                                                 | 7  |
| Table 3: Technical Specification of EUT.....                                          | 8  |
| Table 4: RF Channel and Frequency of Bluetooth BR & EDR .....                         | 9  |
| Table 5: List of Accessories and Auxiliary Equipment.....                             | 11 |
| Table 6: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR ..... | 15 |

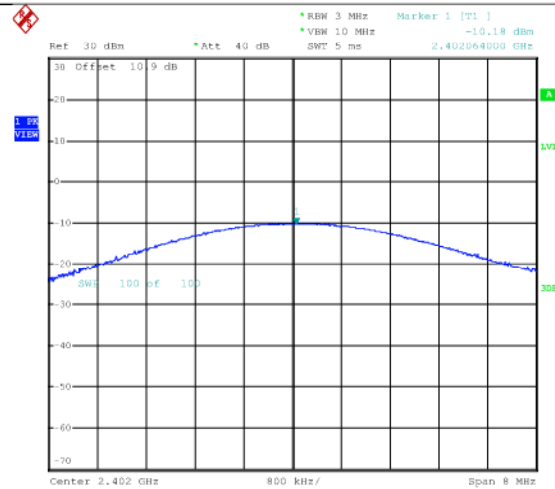
## Appendix A: Test Results of 2.4GHz BT

|                                                                                                |     |
|------------------------------------------------------------------------------------------------|-----|
| APPENDIX A: TEST RESULTS OF 2.4GHZ BT .....                                                    | 1   |
| APPENDIX A.1: TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER .....                             | 2   |
| APPENDIX A.2: TEST RESULTS OF 99% BANDWIDTH.....                                               | 7   |
| APPENDIX A.3: TEST RESULTS OF 20dB BANDWIDTH .....                                             | 12  |
| APPENDIX A.4: TEST RESULTS OF CARRIER FREQUENCY SEPARATION .....                               | 17  |
| APPENDIX A.5: TEST RESULTS OF TIME OF OCCUPANCY.....                                           | 20  |
| APPENDIX A.6: TEST RESULTS OF NUMBER OF HOPPING FREQUENCY .....                                | 26  |
| APPENDIX A.7: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH ..... | 28  |
| <i>Band Edge</i> .....                                                                         | 28  |
| <i>Conducted Spurious Emission</i> .....                                                       | 35  |
| APPENDIX A.8: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS .....                                | 50  |
| 30MHz - 1GHz- SWFT-SD14-BLK (Worst mode) .....                                                 | 50  |
| 30MHz - 1GHz-SWFT-XPRP-BLK(Worst mode) .....                                                   | 54  |
| 1GHz - 18GHz-SWFT-SD14-BLK .....                                                               | 58  |
| 1GHz - 18GHz- SWFT-XPRP-BLK .....                                                              | 110 |

## Appendix A.1: Test Results of Maximum conducted output power

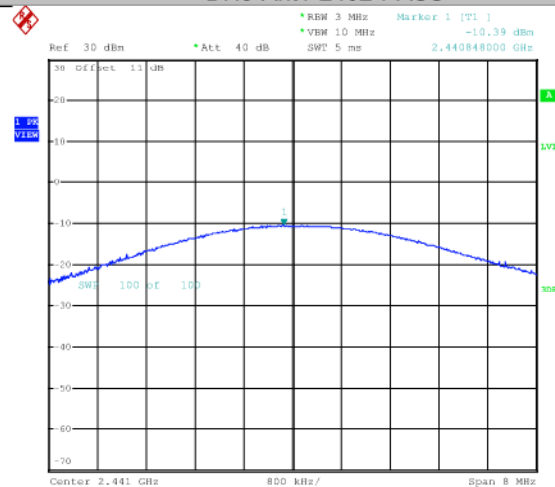
| TestMode | Antenna | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| DH5      | Ant1    | 2402           | -10.18      | ≤20.97     | PASS    |
| DH5      | Ant1    | 2441           | -10.39      | ≤20.97     | PASS    |
| DH5      | Ant1    | 2480           | -9.08       | ≤20.97     | PASS    |
| 2DH5     | Ant1    | 2402           | -10.12      | ≤20.97     | PASS    |
| 2DH5     | Ant1    | 2441           | -10.42      | ≤20.97     | PASS    |
| 2DH5     | Ant1    | 2480           | -8.90       | ≤20.97     | PASS    |
| 3DH5     | Ant1    | 2402           | -10.12      | ≤20.97     | PASS    |
| 3DH5     | Ant1    | 2441           | -10.45      | ≤20.97     | PASS    |
| 3DH5     | Ant1    | 2480           | -8.78       | ≤20.97     | PASS    |

### Test Graphs



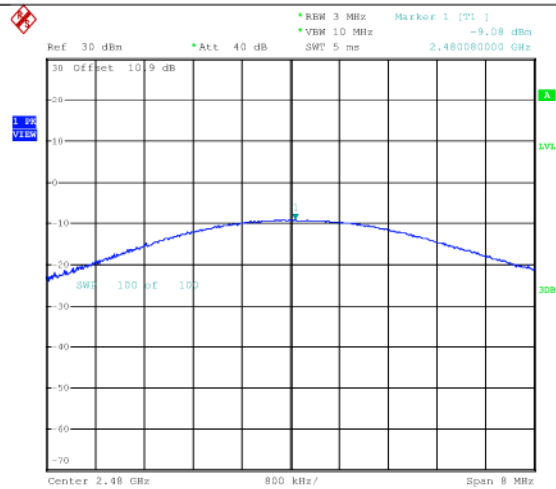
001-EIRP-L  
Date: 10.SEP.2024 20:33:46

#### DH5-Ant1-2402-PASS



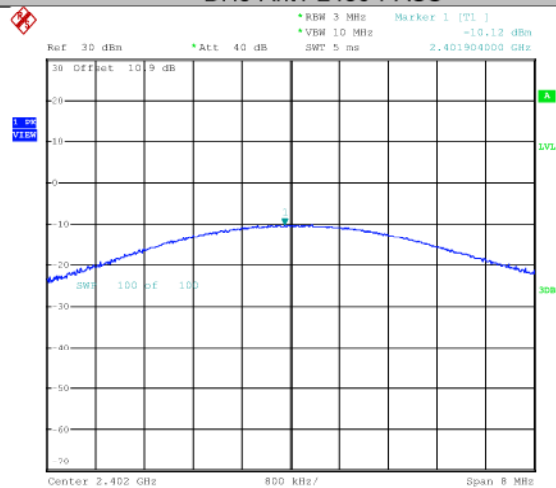
001-EIRP-L  
Date: 10.SEP.2024 20:34:12

#### DH5-Ant1-2441-PASS



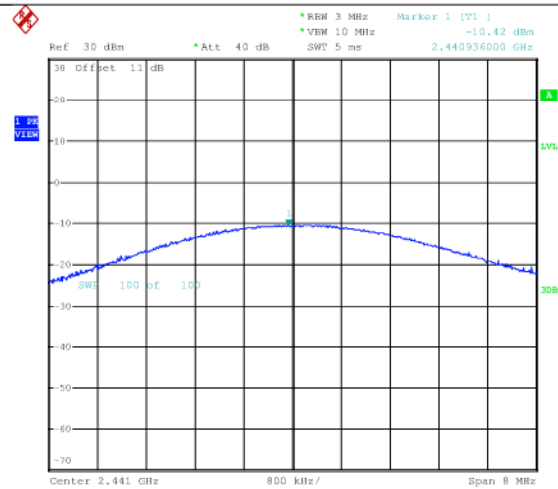
001-EIRP-L  
Date: 10.SEP.2024 20:34:37

#### DH5-Ant1-2480-PASS



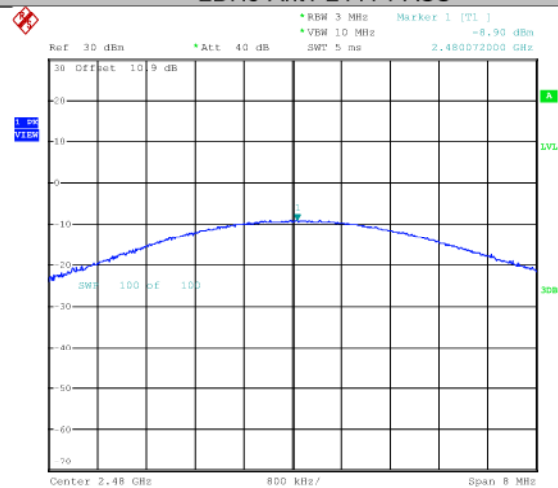
001-EIRP-L  
Date: 10.SEP.2024 20:35:07

#### 2DH5-Ant1-2402-PASS



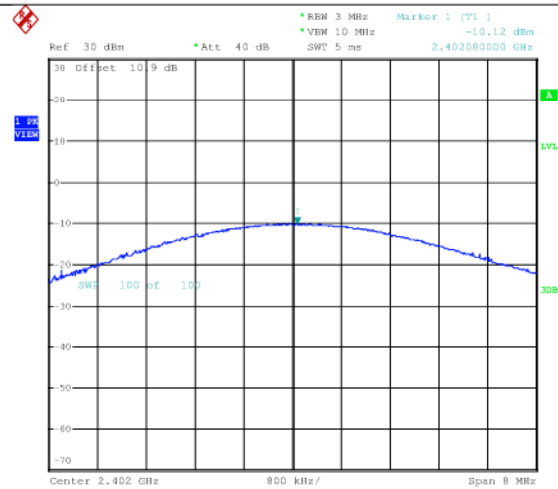
001-EIRP-L  
Date: 10.SEP.2024 20:35:34

#### 2DH5-Ant1-2441-PASS



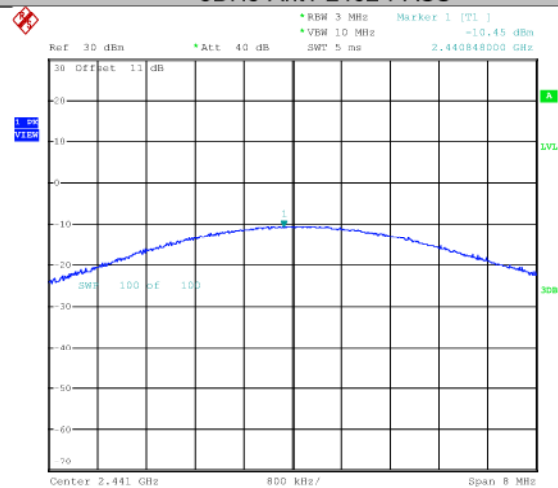
001-EIRP-L  
Date: 10.SEP.2024 20:36:13

#### 2DH5-Ant1-2480-PASS



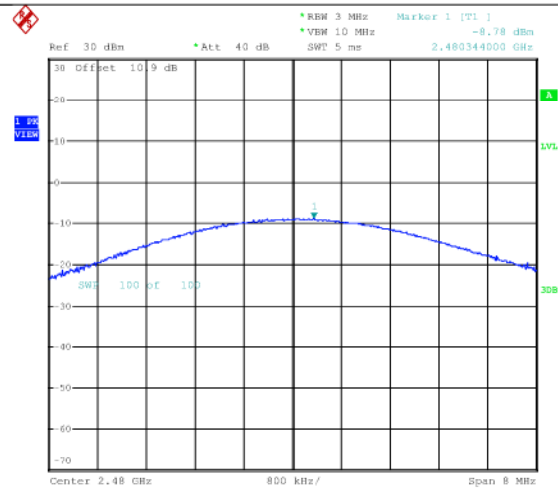
001-EIRP-L  
Date: 10.SEP.2024 20:36:45

### 3DH5-Ant1-2402-PASS



001-EIRP-L  
Date: 10.SEP.2024 20:37:14

### 3DH5-Ant1-2441-PASS



001-EIRP-L  
Date: 10.SEP.2024 20:37:42

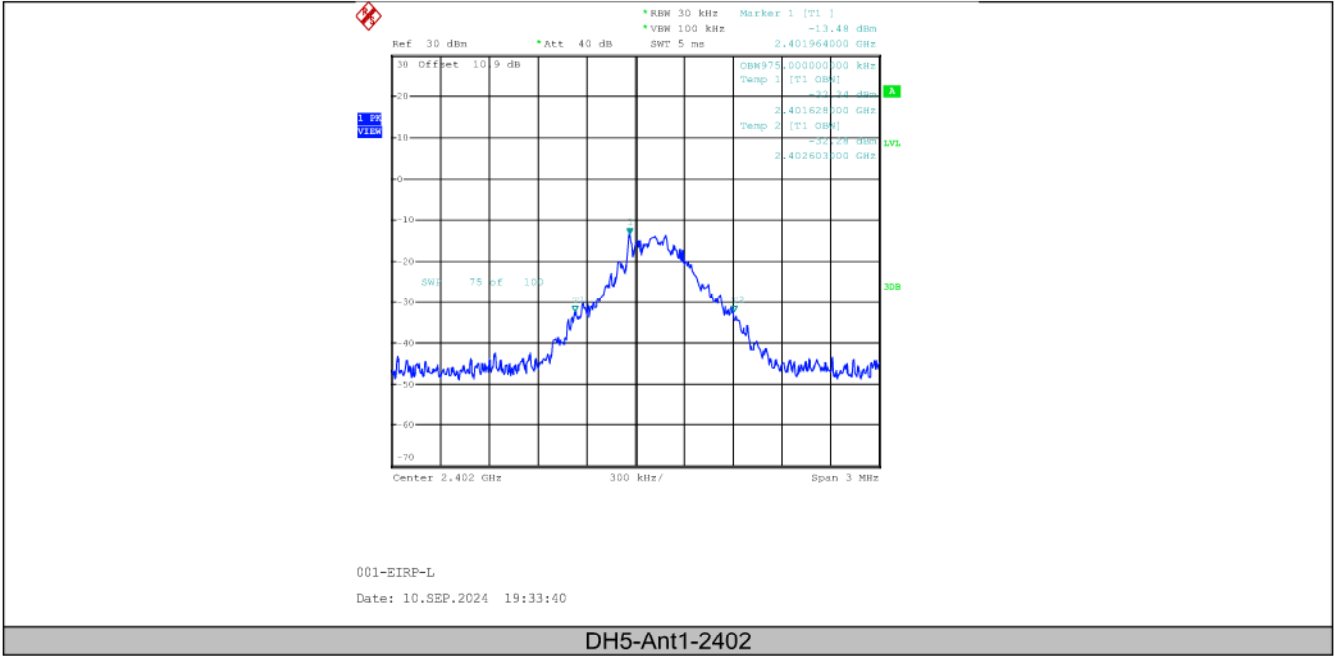
3DH5-Ant1-2480-PASS

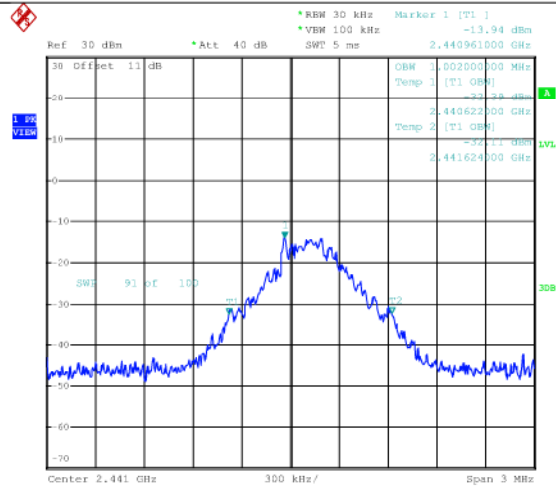
Appendix A.2: Test Results of 99% Bandwidth

Test Result

| TestMode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402                   | 0.975     | 2401.6280 | 2402.6030 | ---        | ---     |
| DH5      | Ant1    | 2441                   | 1.002     | 2440.6220 | 2441.6240 | ---        | ---     |
| DH5      | Ant1    | 2480                   | 0.999     | 2479.6250 | 2480.6240 | ---        | ---     |
| 2DH5     | Ant1    | 2402                   | 1.383     | 2401.4210 | 2402.8040 | ---        | ---     |
| 2DH5     | Ant1    | 2441                   | 1.41      | 2440.4000 | 2441.8100 | ---        | ---     |
| 2DH5     | Ant1    | 2480                   | 1.329     | 2479.4600 | 2480.7890 | ---        | ---     |
| 3DH5     | Ant1    | 2402                   | 1.425     | 2401.3760 | 2402.8010 | ---        | ---     |
| 3DH5     | Ant1    | 2441                   | 1.404     | 2440.4000 | 2441.8040 | ---        | ---     |
| 3DH5     | Ant1    | 2480                   | 1.275     | 2479.4810 | 2480.7560 | ---        | ---     |

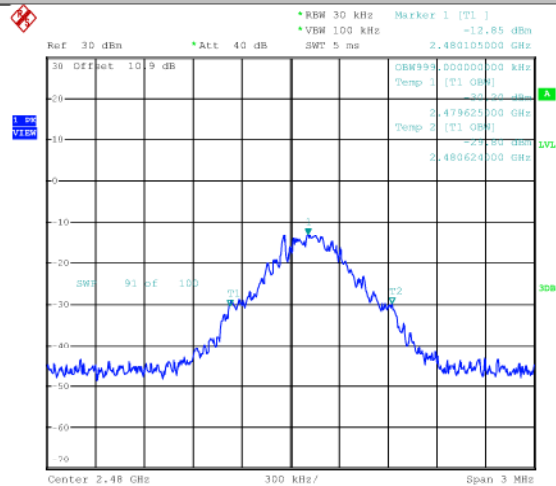
Test Graphs





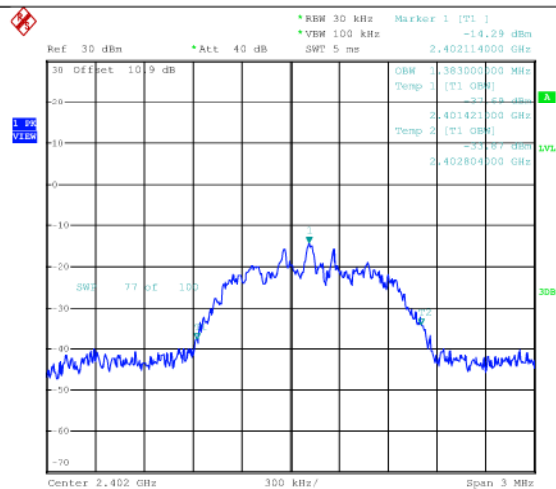
001-EIRP-L  
Date: 10.SEP.2024 19:38:31

#### DH5-Ant1-2441



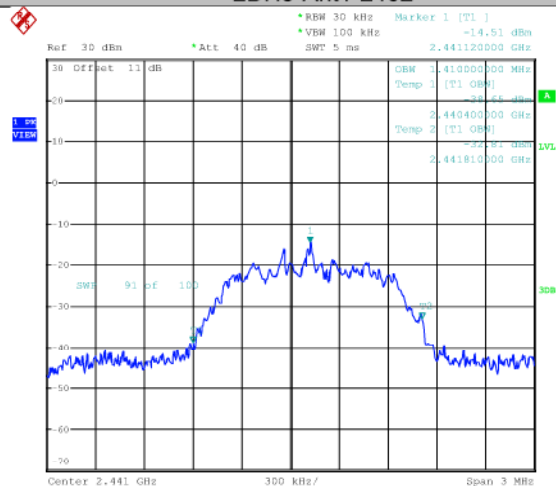
001-EIRP-L  
Date: 10.SEP.2024 19:41:37

#### DH5-Ant1-2480



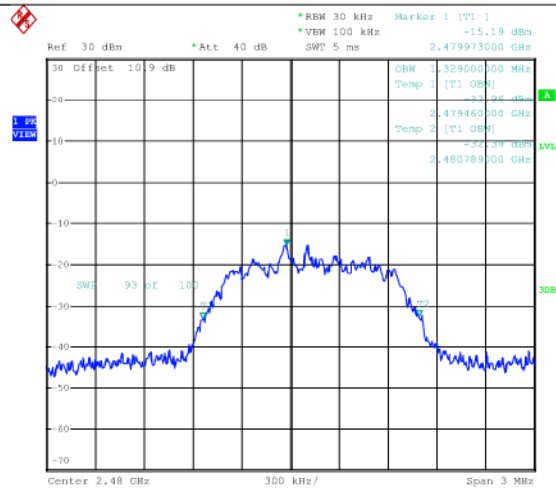
001-EIRP-L  
Date: 10.SEP.2024 19:46:05

#### 2DH5-Ant1-2402



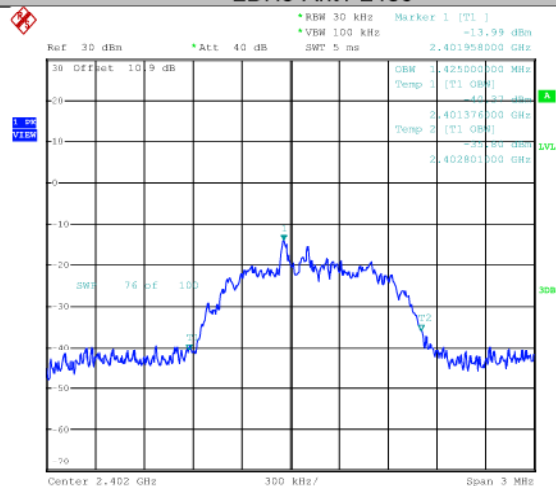
001-EIRP-L  
Date: 10.SEP.2024 19:50:24

#### 2DH5-Ant1-2441



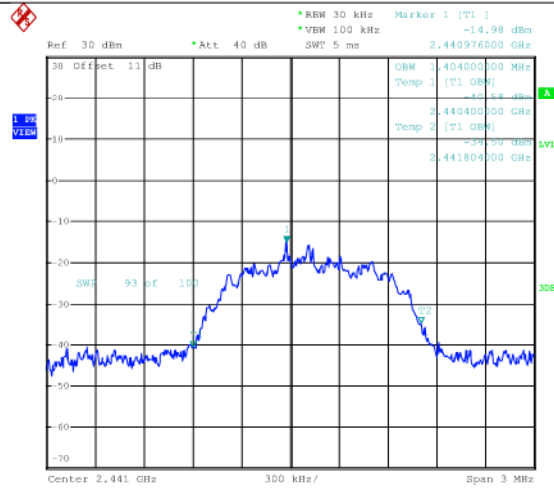
001-EIRP-L  
Date: 10.SEP.2024 19:54:00

2DH5-Ant1-2480



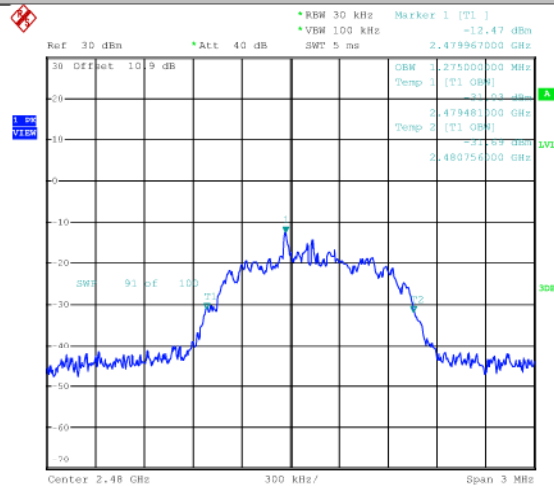
001-EIRP-L  
Date: 10.SEP.2024 19:59:20

3DH5-Ant1-2402



001-EIRP-L  
Date: 10.SEP.2024 20:03:30

3DH5-Ant1-2441



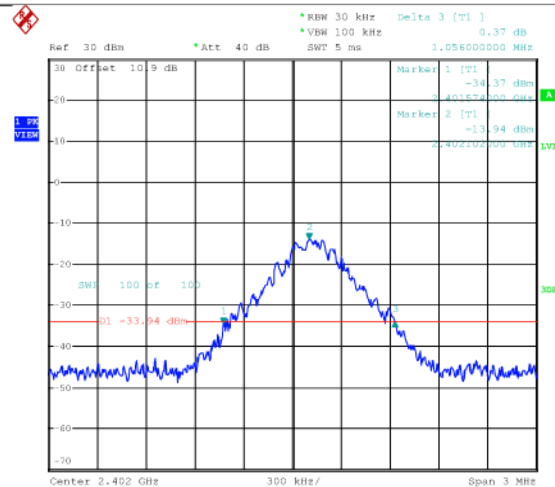
001-EIRP-L  
Date: 10.SEP.2024 20:06:25

3DH5-Ant1-2480

### Appendix A.3: Test Results of 20dB Bandwidth

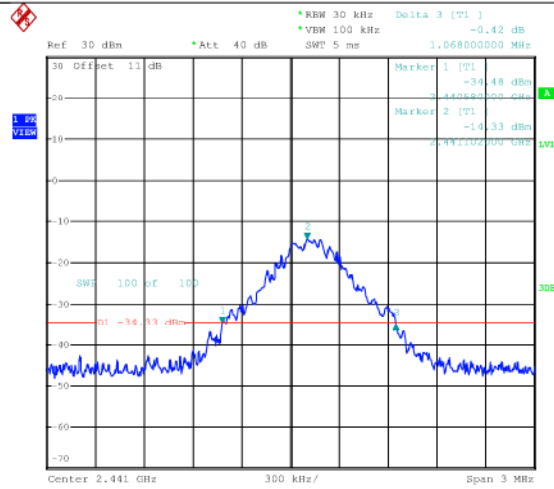
| TestMode | Antenna | Frequency[MHz] | BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|----------|---------|---------|------------|---------|
| DH5      | Ant1    | 2402           | 1.06     | 2401.57 | 2402.63 | ---        | ---     |
| DH5      | Ant1    | 2441           | 1.07     | 2440.58 | 2441.65 | ---        | ---     |
| DH5      | Ant1    | 2480           | 1.05     | 2479.60 | 2480.65 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.39     | 2401.43 | 2402.82 | ---        | ---     |
| 2DH5     | Ant1    | 2441           | 1.37     | 2440.45 | 2441.82 | ---        | ---     |
| 2DH5     | Ant1    | 2480           | 1.34     | 2479.46 | 2480.80 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.35     | 2401.45 | 2402.80 | ---        | ---     |
| 3DH5     | Ant1    | 2441           | 1.35     | 2440.45 | 2441.80 | ---        | ---     |
| 3DH5     | Ant1    | 2480           | 1.33     | 2479.46 | 2480.78 | ---        | ---     |

### Test Graphs



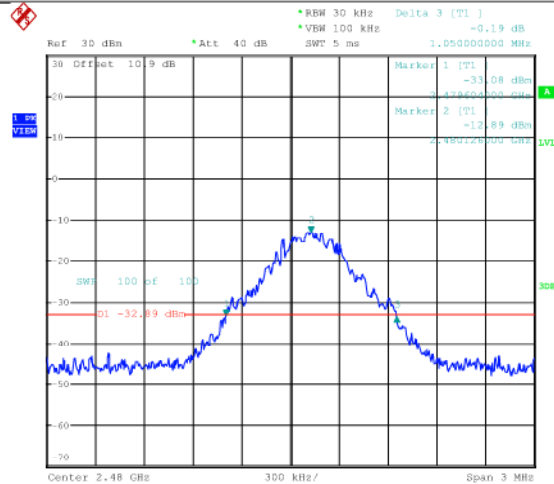
001-EIRP-L  
Date: 10.SEP.2024 19:33:33

DH5-Ant1-2402



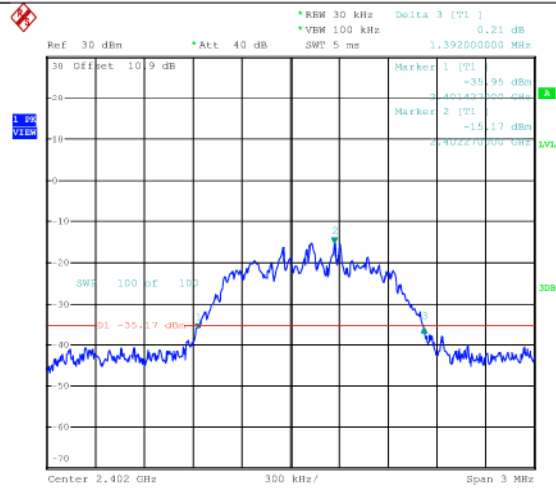
001-EIRP-L  
Date: 10.SEP.2024 19:38:23

DH5-Ant1-2441



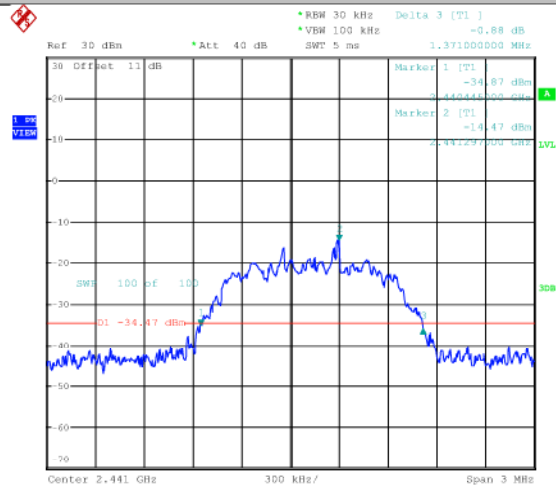
001-EIRP-L  
Date: 10.SEP.2024 19:41:29

DH5-Ant1-2480



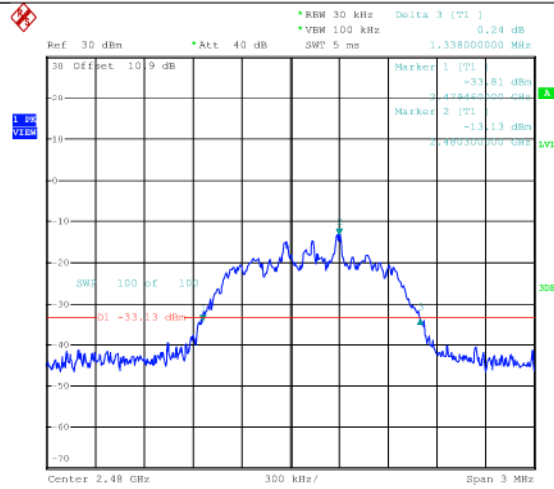
001-EIRP-L  
Date: 10.SEP.2024 19:45:58

2DH5-Ant1-2402



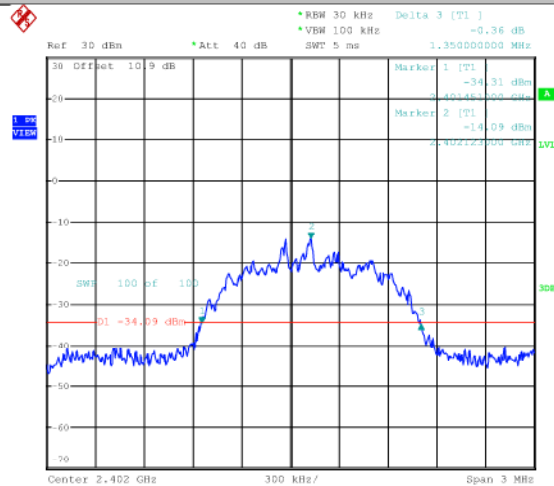
001-EIRP-L  
Date: 10.SEP.2024 19:50:16

2DH5-Ant1-2441



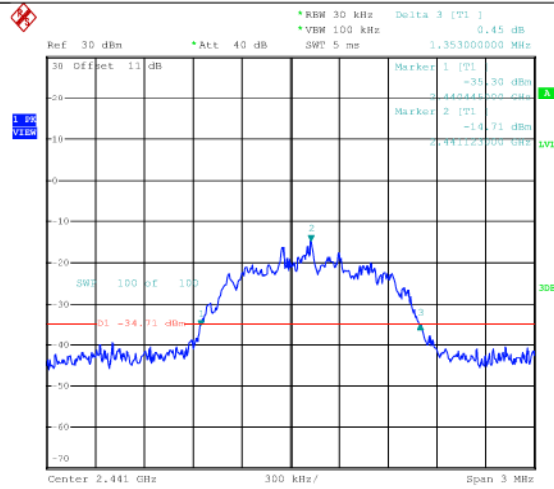
001-EIRP-L  
Date: 10.SEP.2024 19:53:52

2DH5-Ant1-2480



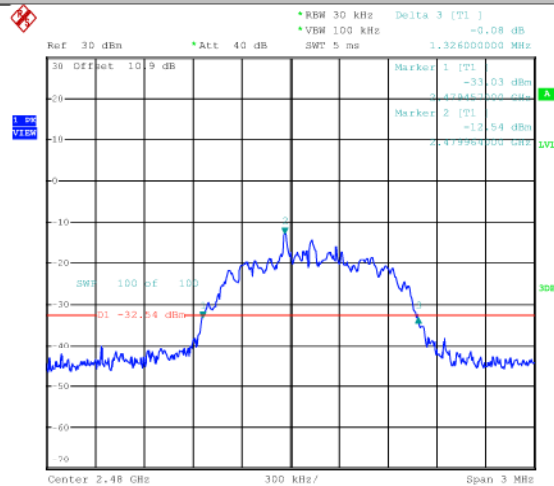
001-EIRP-L  
Date: 10.SEP.2024 19:59:12

3DH5-Ant1-2402



001-EIRP-L  
Date: 10.SEP.2024 20:03:23

3DH5-Ant1-2441



001-EIRP-L  
Date: 10.SEP.2024 20:06:17

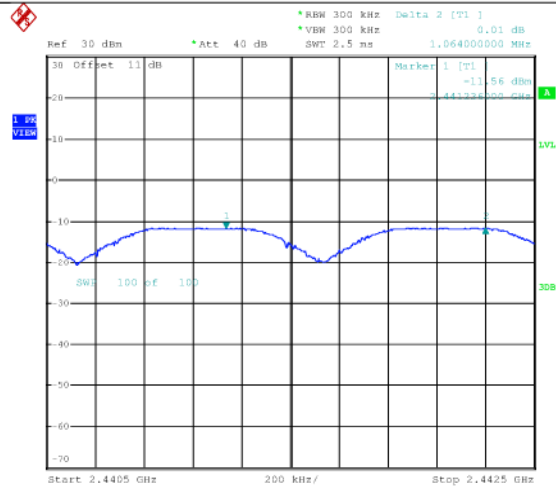
3DH5-Ant1-2480

## Appendix A.4: Test Results of Carrier Frequency Separation

### Test Result

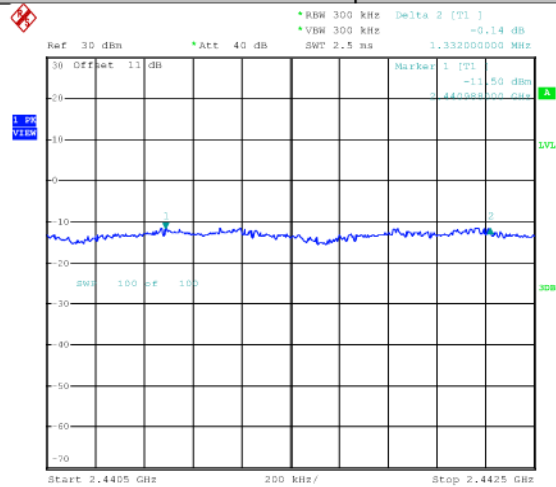
| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|----------------|-------------|--------------|---------|
| DH5      | Ant1    | Hop            | 1.064       | $\geq 0.713$ | PASS    |
| 2DH5     | Ant1    | Hop            | 1.332       | $\geq 0.927$ | PASS    |
| 3DH5     | Ant1    | Hop            | 1.008       | $\geq 0.900$ | PASS    |

## Test Graphs



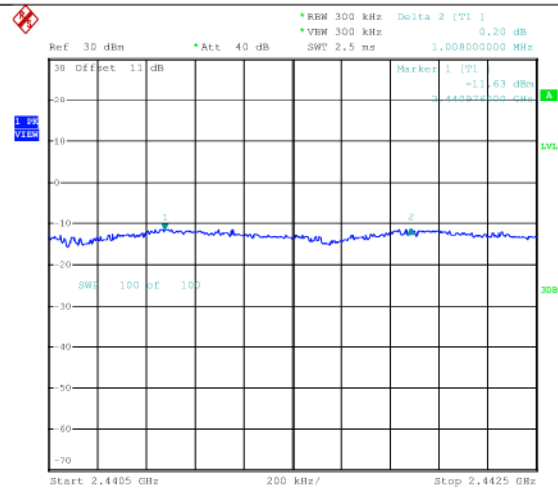
001-EIRP-L  
Date: 10.SEP.2024 20:12:31

### DH5-Ant1-Hop-PASS



001-EIRP-L  
Date: 10.SEP.2024 20:20:42

### 2DH5-Ant1-Hop-PASS



001-EIRP-L  
Date: 10.SEP.2024 20:28:05

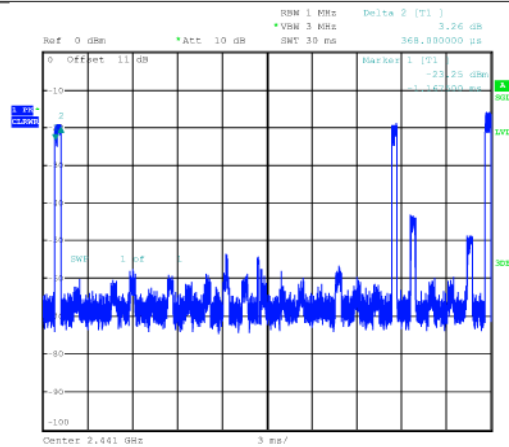
3DH5-Ant1-Hop-PASS

## Appendix A.5: Test Results of Time of Occupancy

### Test Result

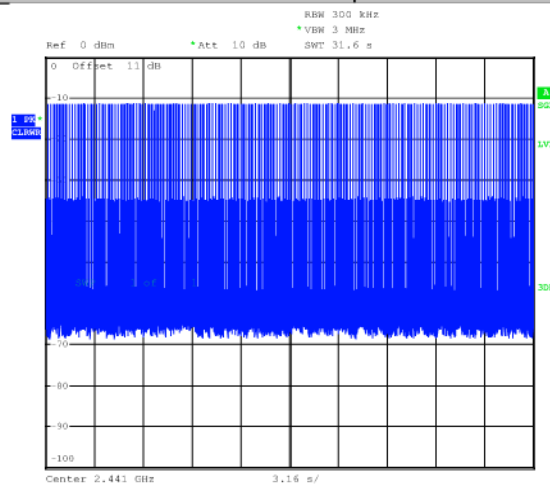
| TestMode | Antenna | Frequency[MHz] | BurstWidth [ms] | TotalHops [Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|-----------------|-----------------|-----------|----------|---------|
| DH1      | Ant1    | Hop            | 0.368           | 287             | 0.106     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop            | 1.630           | 154             | 0.251     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop            | 2.873           | 98              | 0.282     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop            | 0.384           | 289             | 0.111     | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop            | 1.635           | 147             | 0.24      | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop            | 2.880           | 115             | 0.331     | ≤0.4     | PASS    |

### Test Graphs

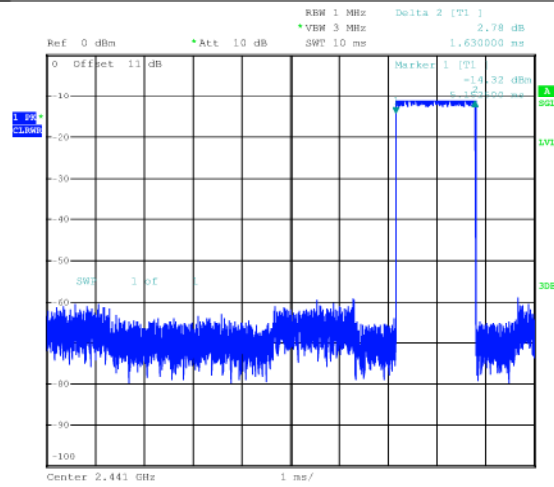


001-EIRP-L  
Date: 23.DEC.2024 16:40:06

### DH1-Ant1-Hop-PASS

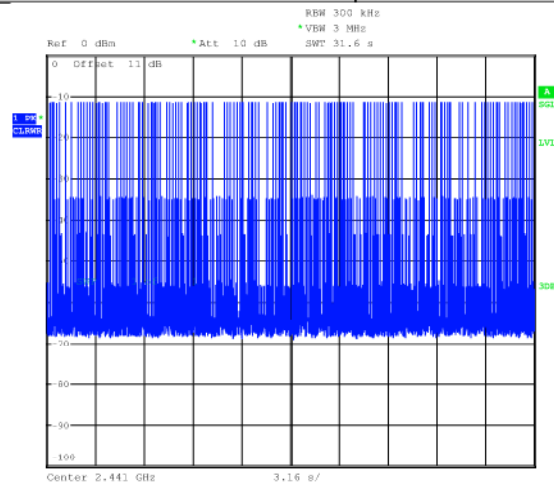


001-EIRP-L  
Date: 23.DEC.2024 16:40:41

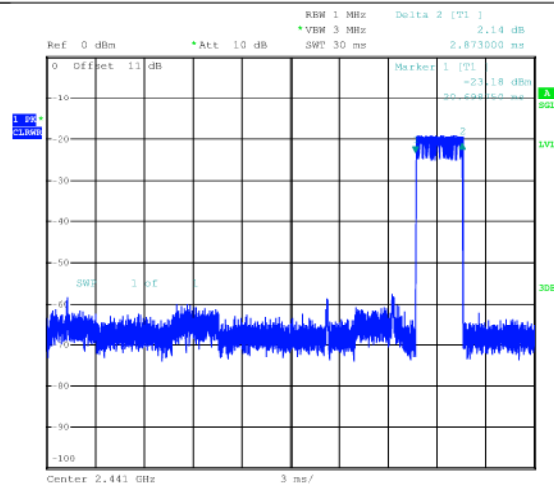


001-EIRP-L  
Date: 23.DEC.2024 16:41:24

DH3-Ant1-Hop-PASS

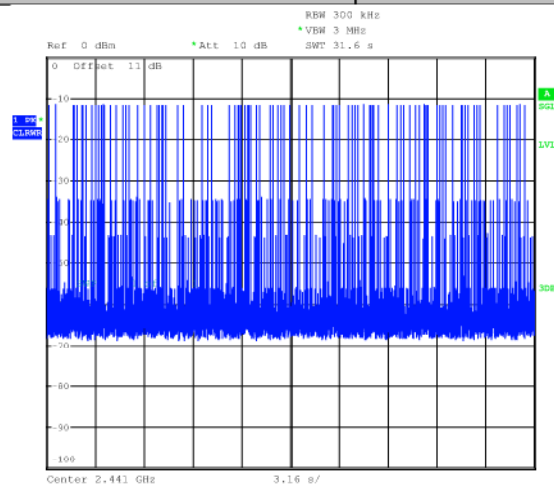


001-EIRP-L  
Date: 23.DEC.2024 16:41:59

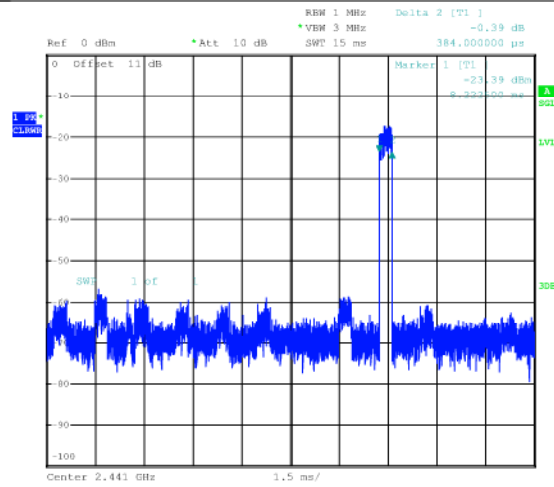


001-EIRP-L  
Date: 23.DEC.2024 16:38:29

#### DH5-Ant1-Hop-PASS

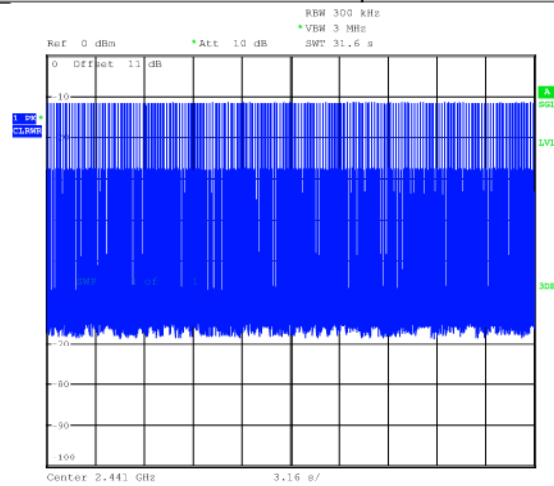


001-EIRP-L  
Date: 23.DEC.2024 16:39:04

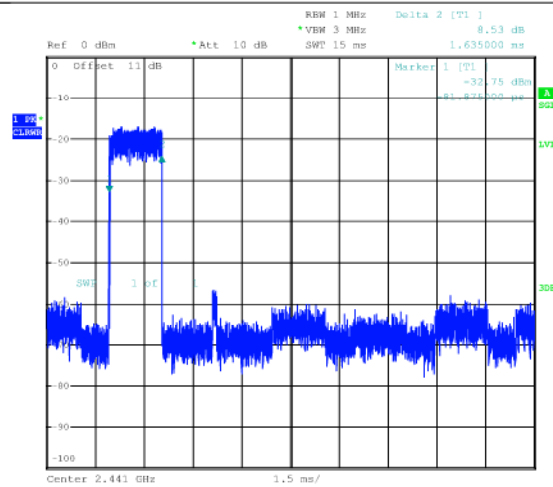


001-EIRP-L  
Date: 23.DEC.2024 16:44:35

3DH1-Ant1-Hop-PASS

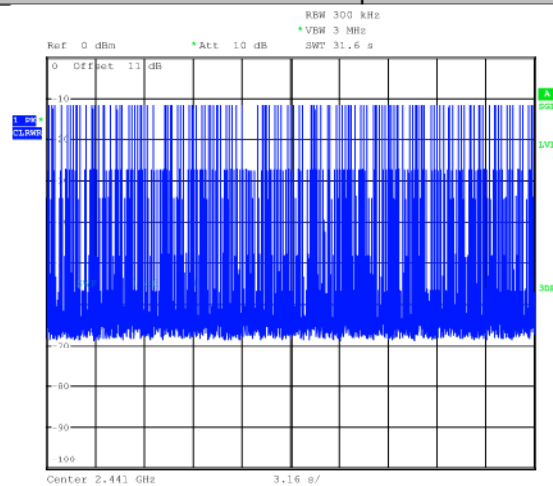


001-EIRP-L  
Date: 23.DEC.2024 16:45:09

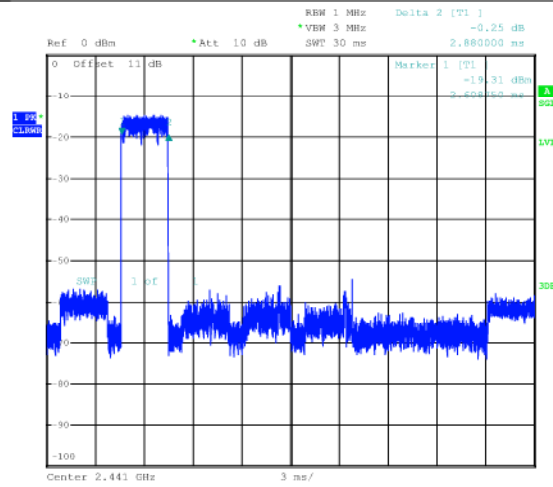


001-EIRP-L  
Date: 23.DEC.2024 16:45:59

### 3DH3-Ant1-Hop-PASS

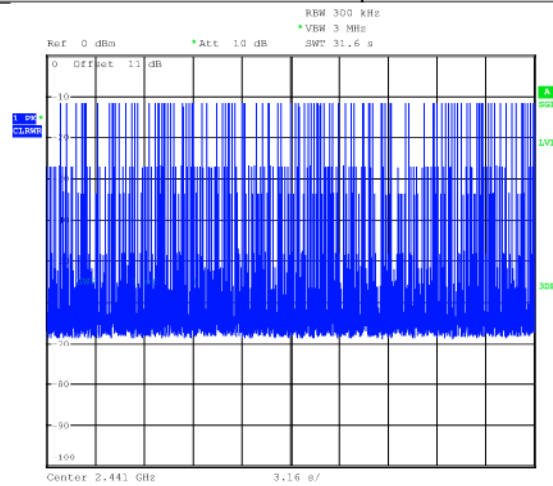


001-EIRP-L  
Date: 23.DEC.2024 16:46:34



001-EIRP-L  
Date: 23.DEC.2024 16:43:09

### 3DH5-Ant1-Hop-PASS



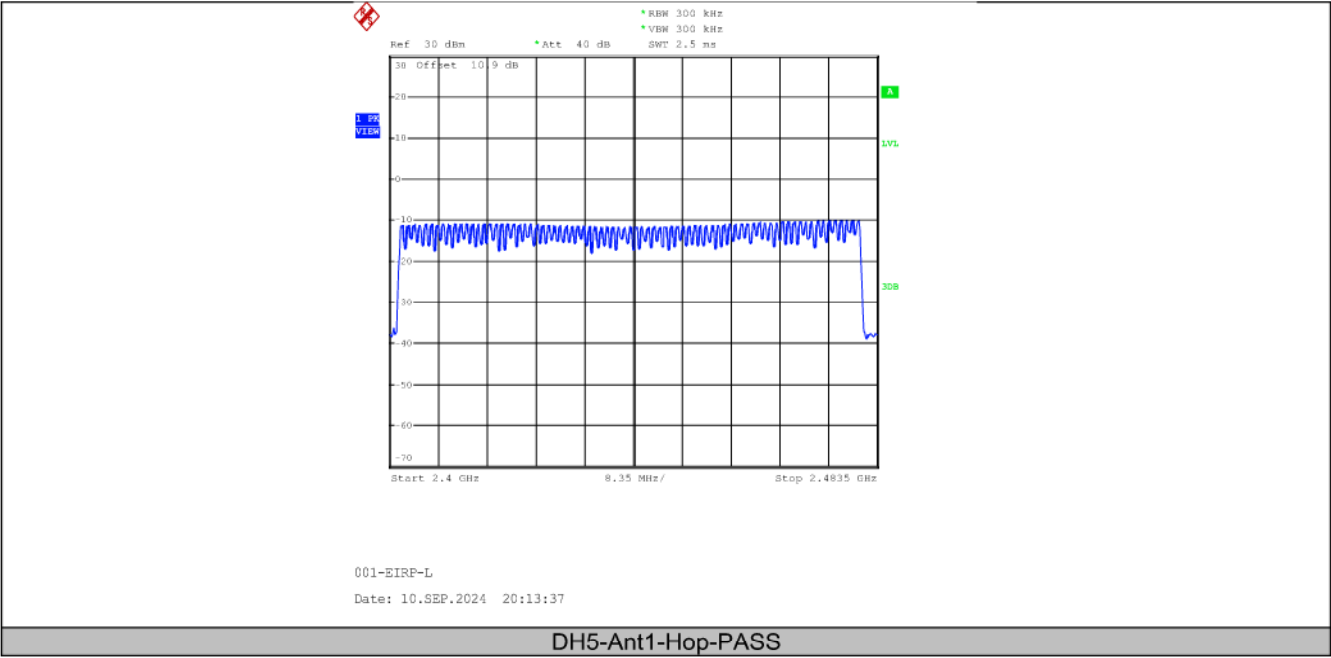
001-EIRP-L  
Date: 23.DEC.2024 16:43:44

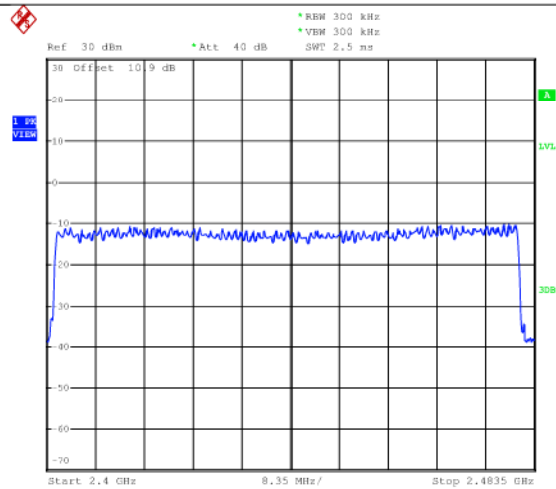
Appendix A.6: Test Results of Number of Hopping Frequency

Test Result

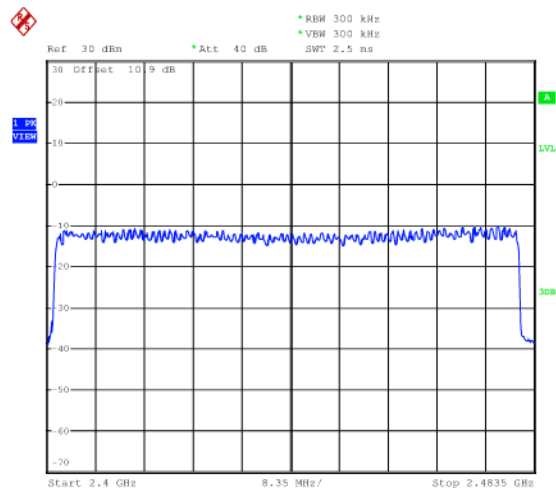
| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| DH5      | Ant1    | Hop            | 79          | ≥15        | PASS    |
| 2DH5     | Ant1    | Hop            | 79          | ≥15        | PASS    |
| 3DH5     | Ant1    | Hop            | 79          | ≥15        | PASS    |

Test Graphs





2DH5-Ant1-Hop-PASS

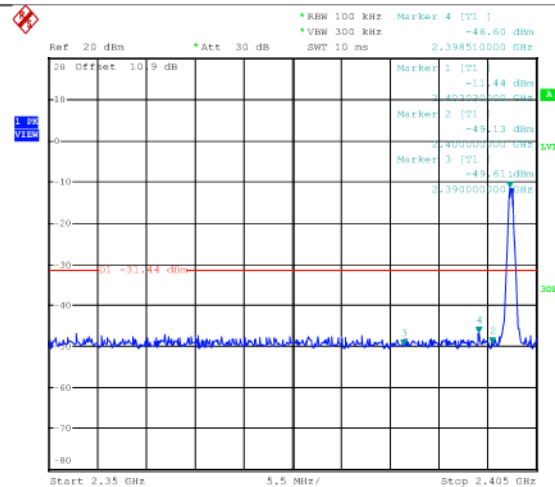


## Appendix A.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

### Band Edge

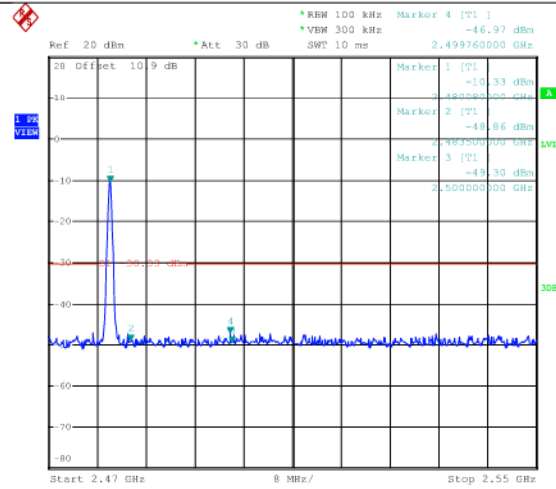
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | Low    | 2402           | -11.44         | -46.6        | ≤-31.44     | PASS    |
| DH5      | Ant1    | High   | 2480           | -10.33         | -46.97       | ≤-30.33     | PASS    |
| DH5      | Ant1    | Low    | Hop_2402       | -12.38         | -46.27       | ≤-32.38     | PASS    |
| DH5      | Ant1    | High   | Hop_2480       | -10.93         | -46.82       | ≤-30.93     | PASS    |
| 2DH5     | Ant1    | Low    | 2402           | -11.39         | -46.28       | ≤-31.39     | PASS    |
| 2DH5     | Ant1    | High   | 2480           | -10.49         | -34.97       | ≤-30.49     | PASS    |
| 2DH5     | Ant1    | Low    | Hop_2402       | -12.79         | -46.7        | ≤-32.79     | PASS    |
| 2DH5     | Ant1    | High   | Hop_2480       | -14.07         | -46.61       | ≤-34.07     | PASS    |
| 3DH5     | Ant1    | Low    | 2402           | -11.71         | -45.71       | ≤-31.71     | PASS    |
| 3DH5     | Ant1    | High   | 2480           | -11.17         | -46.66       | ≤-31.17     | PASS    |
| 3DH5     | Ant1    | Low    | Hop_2402       | -14.46         | -46.69       | ≤-34.46     | PASS    |
| 3DH5     | Ant1    | High   | Hop_2480       | -12.60         | -46.66       | ≤-32.6      | PASS    |

### Test Graphs



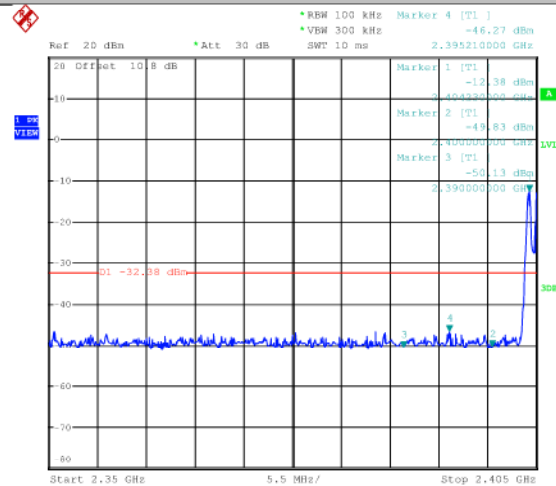
001-EIRP-L  
Date: 10.SEP.2024 19:33:52

DH5-Ant1-2402-PASS



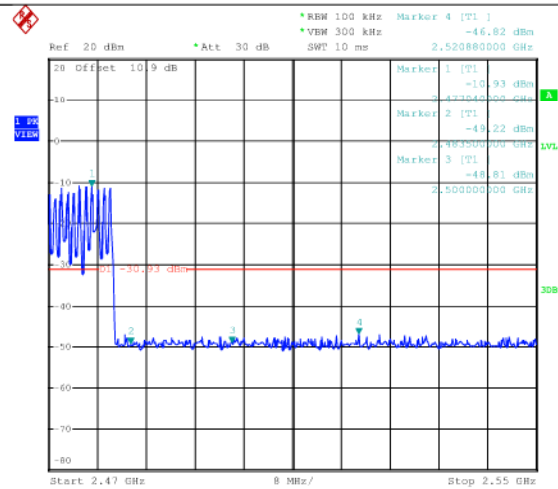
001-EIRP-L  
Date: 10.SEP.2024 19:41:48

DH5-Ant1-2480-PASS



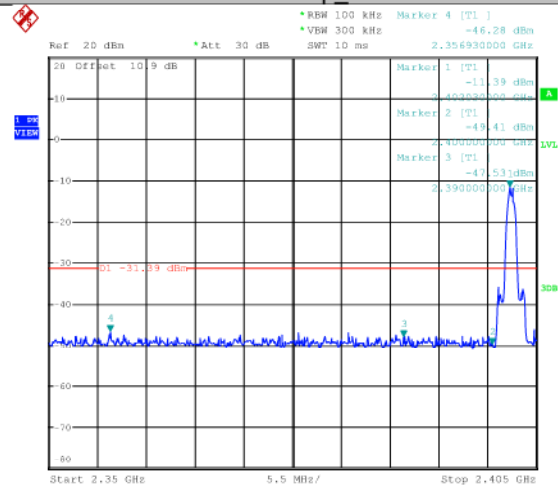
001-EIRP-L  
Date: 10.SEP.2024 20:10:34

DH5-Ant1-Hop\_2402-PASS



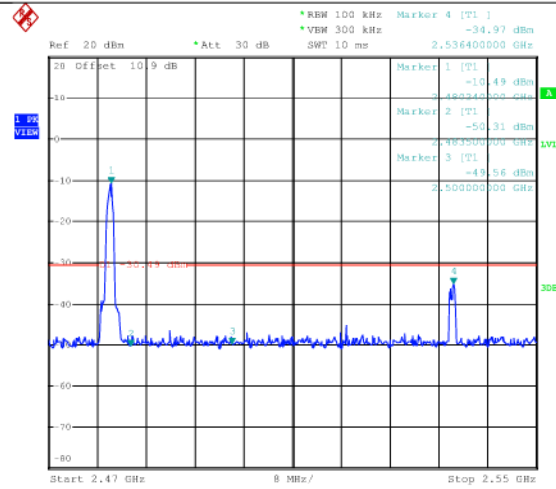
001-EIRP-L  
Date: 10.SEP.2024 20:17:19

#### DH5-Ant1-Hop\_2480-PASS



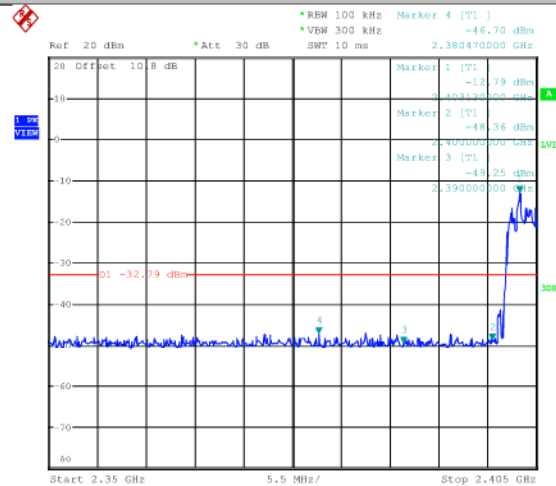
001-EIRP-L  
Date: 10.SEP.2024 19:46:17

#### 2DH5-Ant1-2402-PASS



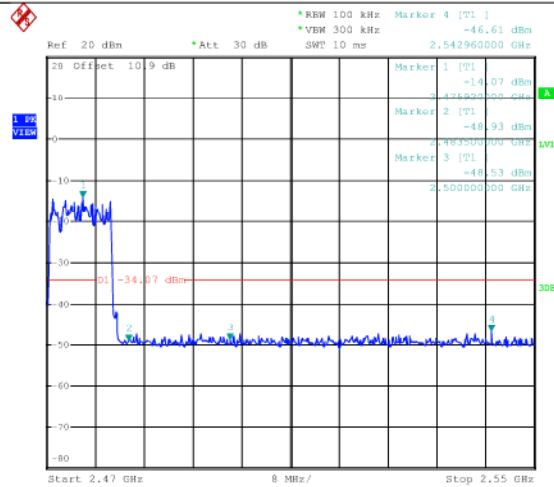
001-EIRP-L  
Date: 10.SEP.2024 19:54:11

#### 2DH5-Ant1-2480-PASS



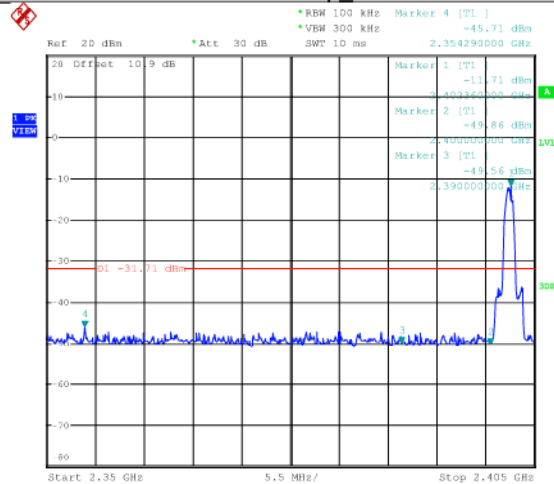
001-EIRP-L  
Date: 10.SEP.2024 20:18:47

#### 2DH5-Ant1-Hop\_2402-PASS



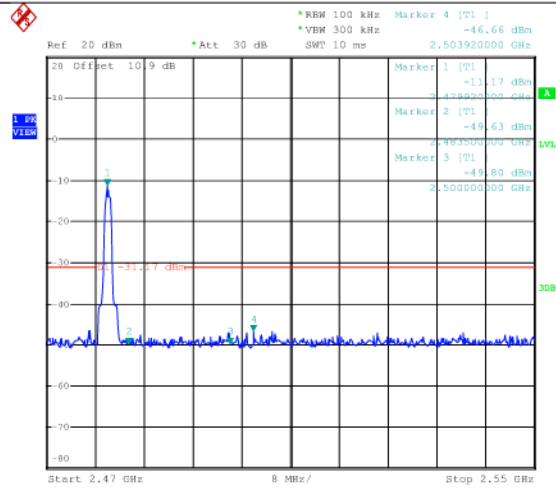
001-EIRP-L  
Date: 10.SEP.2024 20:24:25

2DH5-Ant1-Hop\_2480-PASS



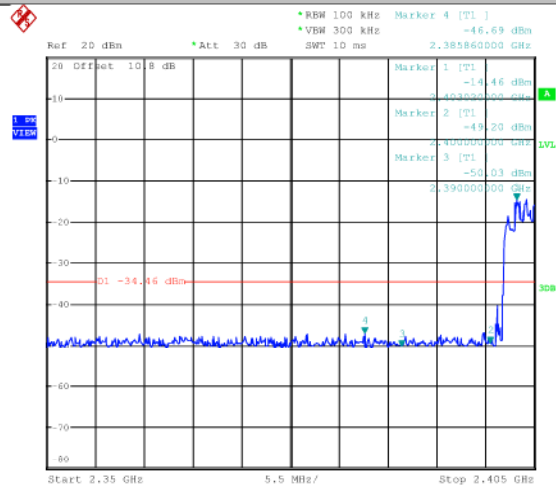
001-EIRP-L  
Date: 10.SEP.2024 19:59:31

3DH5-Ant1-2402-PASS



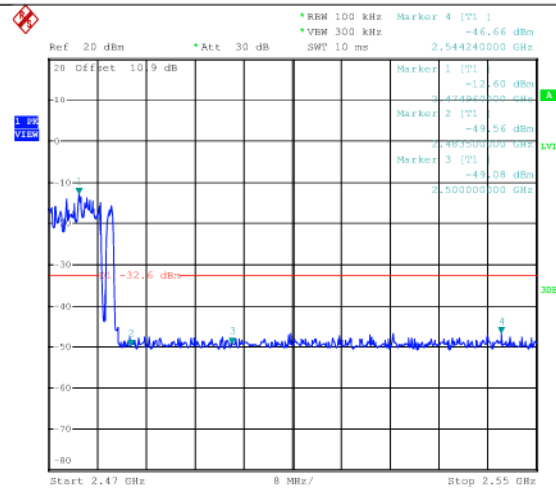
001-EIRP-L  
Date: 10.SEP.2024 20:06:36

3DH5-Ant1-2480-PASS



001-EIRP-L  
Date: 10.SEP.2024 20:25:47

3DH5-Ant1-Hop\_2402-PASS



001-EIRP-L  
Date: 10.SEP.2024 20:32:19

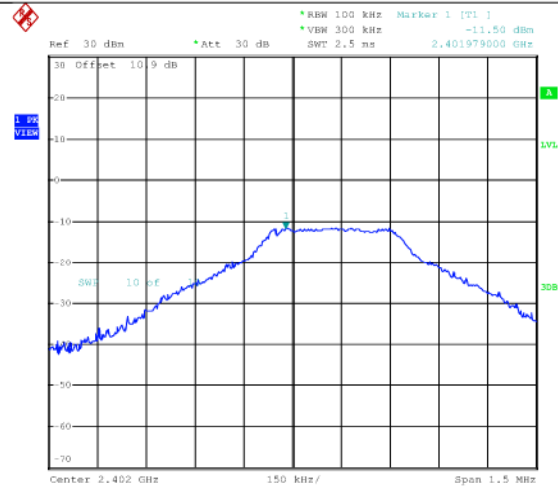
3DH5-Ant1-Hop\_2480-PASS

## Conducted Spurious Emission

### Test Result

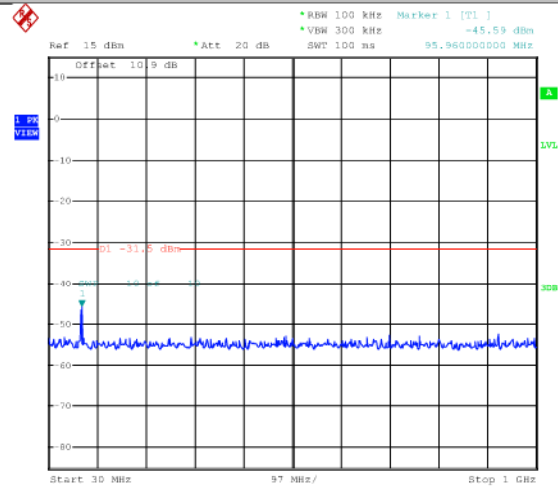
| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402           | 0~Reference     | -11.50         | -11.50       | ---         | PASS    |
| DH5      | Ant1    | 2402           | 30~1000         | -11.50         | -45.59       | ≤-31.5      | PASS    |
| DH5      | Ant1    | 2402           | 1000~26500      | -11.50         | -39.57       | ≤-31.5      | PASS    |
| DH5      | Ant1    | 2441           | 0~Reference     | -11.74         | -11.74       | ---         | PASS    |
| DH5      | Ant1    | 2441           | 30~1000         | -11.74         | -45.66       | ≤-31.74     | PASS    |
| DH5      | Ant1    | 2441           | 1000~26500      | -11.74         | -39.66       | ≤-31.74     | PASS    |
| DH5      | Ant1    | 2480           | 0~Reference     | -10.20         | -10.20       | ---         | PASS    |
| DH5      | Ant1    | 2480           | 30~1000         | -10.20         | -46          | ≤-30.2      | PASS    |
| DH5      | Ant1    | 2480           | 1000~26500      | -10.20         | -39.52       | ≤-30.2      | PASS    |
| 2DH5     | Ant1    | 2402           | 0~Reference     | -11.37         | -11.37       | ---         | PASS    |
| 2DH5     | Ant1    | 2402           | 30~1000         | -11.37         | -46.24       | ≤-31.37     | PASS    |
| 2DH5     | Ant1    | 2402           | 1000~26500      | -11.37         | -40.29       | ≤-31.37     | PASS    |
| 2DH5     | Ant1    | 2441           | 0~Reference     | -11.74         | -11.74       | ---         | PASS    |
| 2DH5     | Ant1    | 2441           | 30~1000         | -11.74         | -45.03       | ≤-31.74     | PASS    |
| 2DH5     | Ant1    | 2441           | 1000~26500      | -11.74         | -39.33       | ≤-31.74     | PASS    |
| 2DH5     | Ant1    | 2480           | 0~Reference     | -10.11         | -10.11       | ---         | PASS    |
| 2DH5     | Ant1    | 2480           | 30~1000         | -10.11         | -44.21       | ≤-30.11     | PASS    |
| 2DH5     | Ant1    | 2480           | 1000~26500      | -10.11         | -33.14       | ≤-30.11     | PASS    |
| 3DH5     | Ant1    | 2402           | 0~Reference     | -11.30         | -11.30       | ---         | PASS    |
| 3DH5     | Ant1    | 2402           | 30~1000         | -11.30         | -45.5        | ≤-31.3      | PASS    |
| 3DH5     | Ant1    | 2402           | 1000~26500      | -11.30         | -36.48       | ≤-31.3      | PASS    |
| 3DH5     | Ant1    | 2441           | 0~Reference     | -11.66         | -11.66       | ---         | PASS    |
| 3DH5     | Ant1    | 2441           | 30~1000         | -11.66         | -45.26       | ≤-31.66     | PASS    |
| 3DH5     | Ant1    | 2441           | 1000~26500      | -11.66         | -39.79       | ≤-31.66     | PASS    |
| 3DH5     | Ant1    | 2480           | 0~Reference     | -10.24         | -10.24       | ---         | PASS    |
| 3DH5     | Ant1    | 2480           | 30~1000         | -10.24         | -45.35       | ≤-30.24     | PASS    |
| 3DH5     | Ant1    | 2480           | 1000~26500      | -10.24         | -40.07       | ≤-30.24     | PASS    |

## Test Graphs



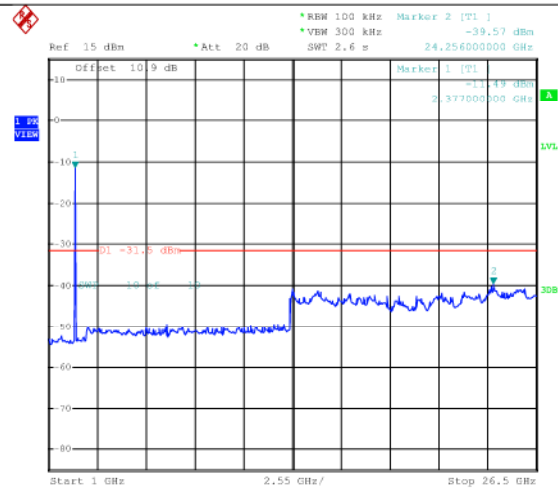
001-EIRP-L  
Date: 10.SEP.2024 19:35:06

### DH5-Ant1-2402-0~Reference-PASS



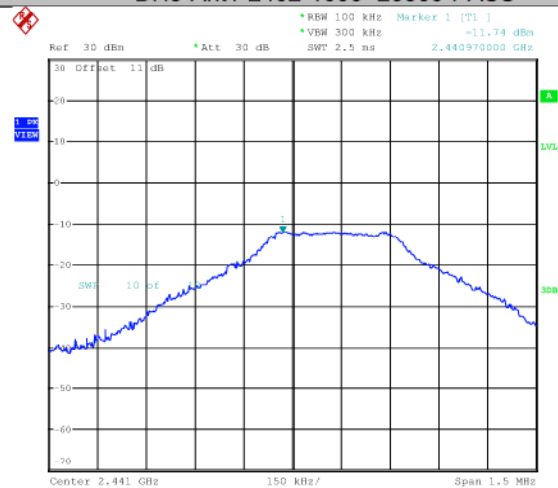
001-EIRP-L  
Date: 10.SEP.2024 19:35:19

### DH5-Ant1-2402-30~1000-PASS



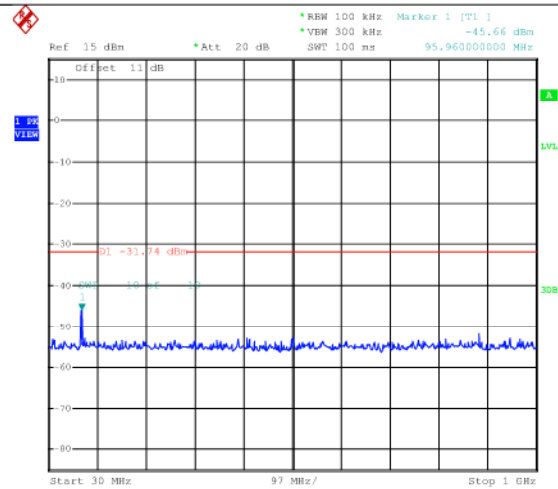
001-EIRP-L  
Date: 10.SEP.2024 19:37:04

DH5-Ant1-2402-1000~26500-PASS



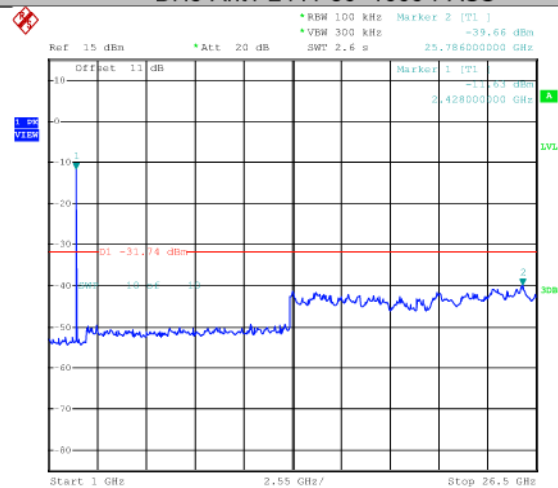
001-EIRP-L  
Date: 10.SEP.2024 19:38:40

## DH5-Ant1-2441-0~Reference-PASS



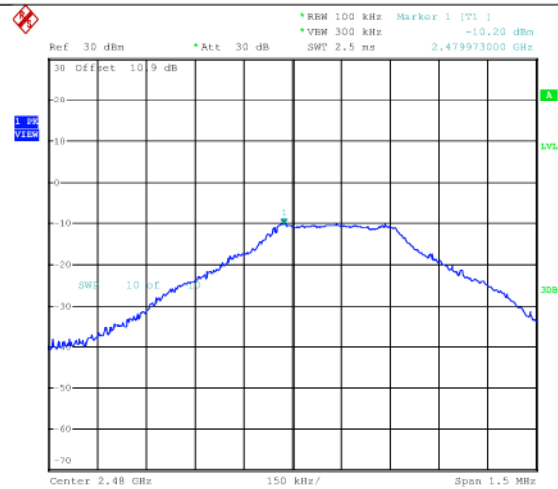
001-EIRP-L  
Date: 10.SEP.2024 19:38:53

DH5-Ant1-2441-30~1000-PASS



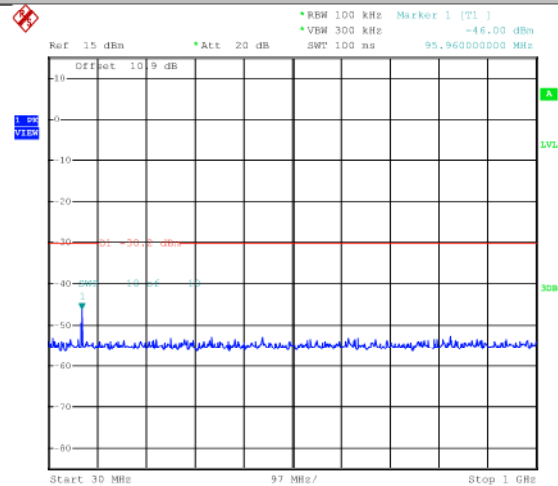
001-EIRP-L  
Date: 10.SEP.2024 19:40:38

DH5-Ant1-2441-1000~26500-PASS



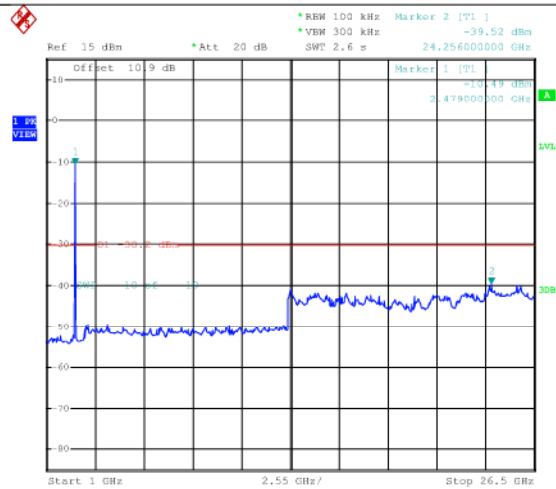
001-EIRP-L  
Date: 10.SEP.2024 19:43:02

#### DH5-Ant1-2480-0~Reference-PASS



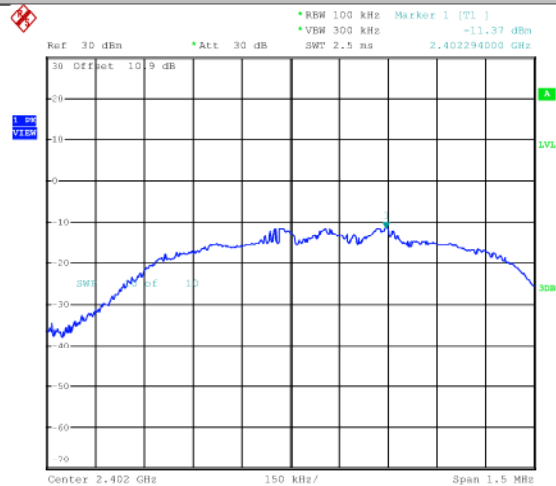
001-EIRP-L  
Date: 10.SEP.2024 19:43:15

#### DH5-Ant1-2480-30~1000-PASS



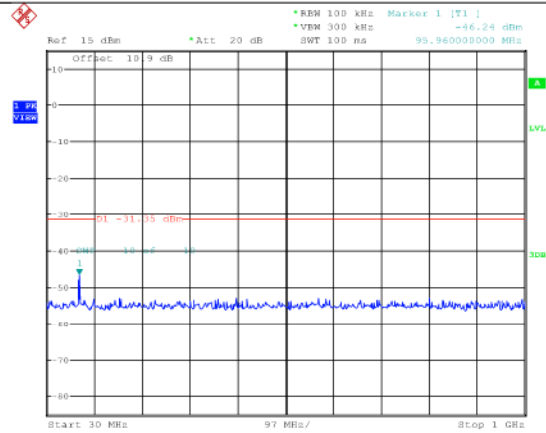
001-EIRP-L  
Date: 10.SEP.2024 19:44:59

#### DH5-Ant1-2480-1000~26500-PASS



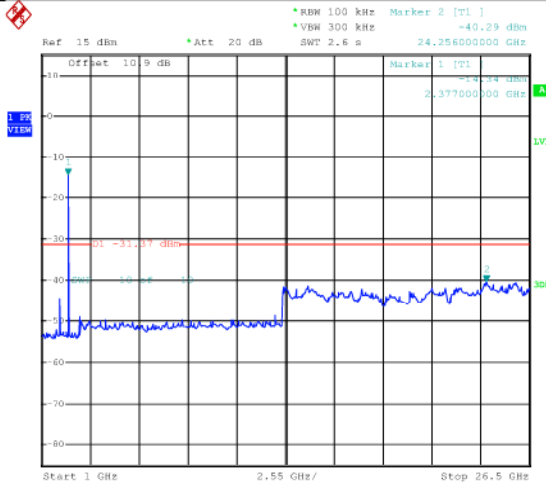
001-EIRP-L  
Date: 10.SEP.2024 19:47:31

#### 2DH5-Ant1-2402-0~Reference-PASS



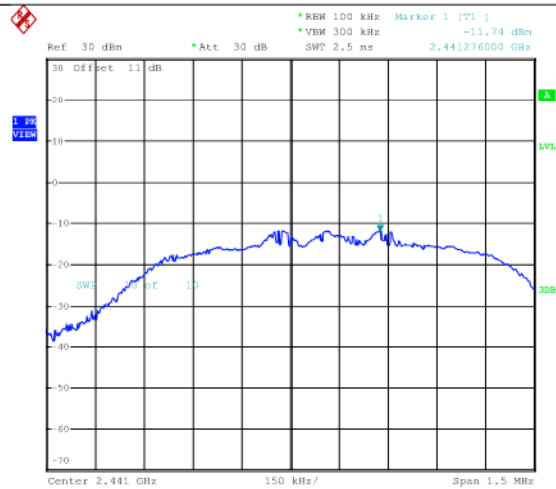
001-EIRP-L  
Date: 10.SEP.2024 21:19:46

2DH5-Ant1-2402-30~1000-PASS

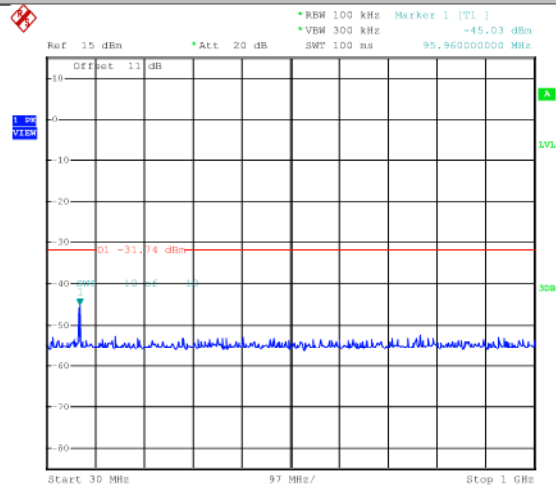


001-EIRP-L  
Date: 10.SEP.2024 19:49:29

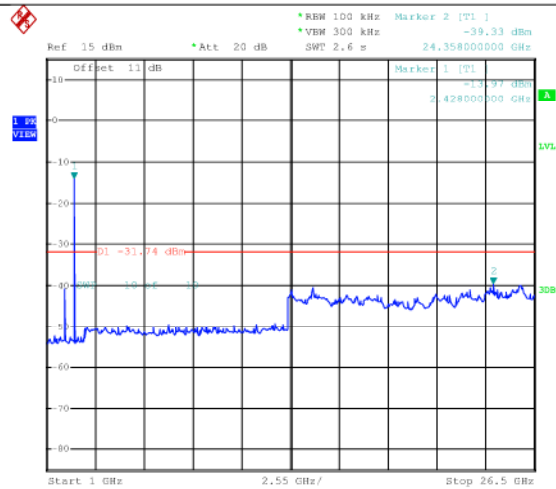
2DH5-Ant1-2402-1000~26500-PASS



#### 2DH5-Ant1-2441-0~Reference-PASS

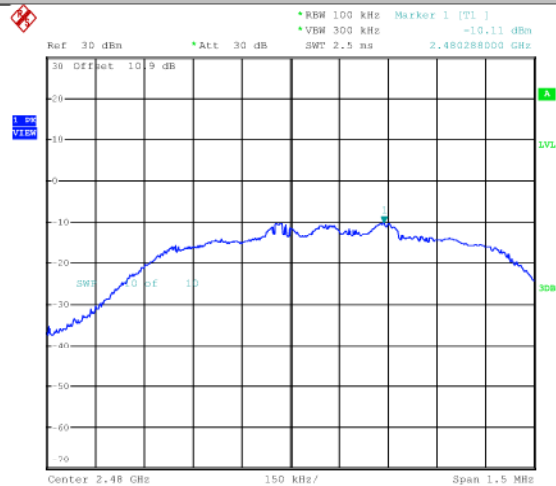


#### 2DH5-Ant1-2441-30~1000-PASS



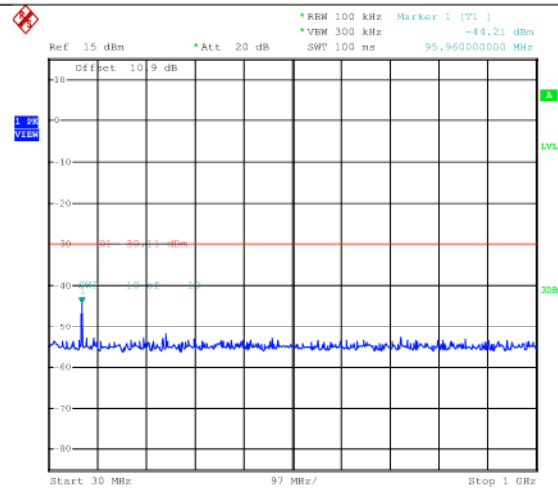
001-EIRP-L  
Date: 10.SEP.2024 19:52:30

2DH5-Ant1-2441-1000~26500-PASS

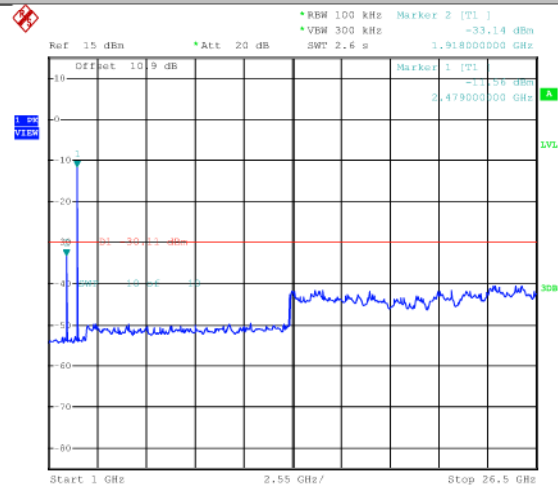


001-EIRP-L  
Date: 10.SEP.2024 19:55:25

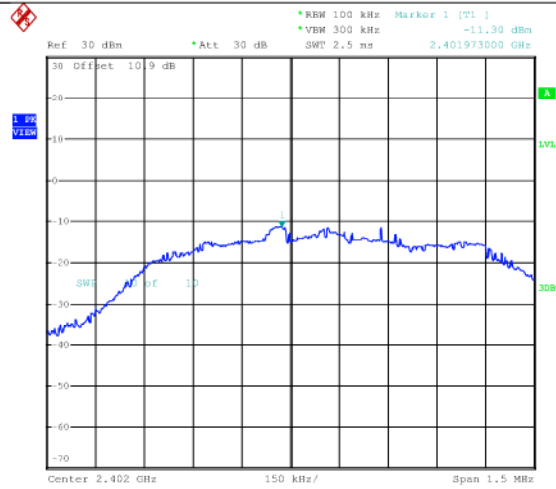
2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS

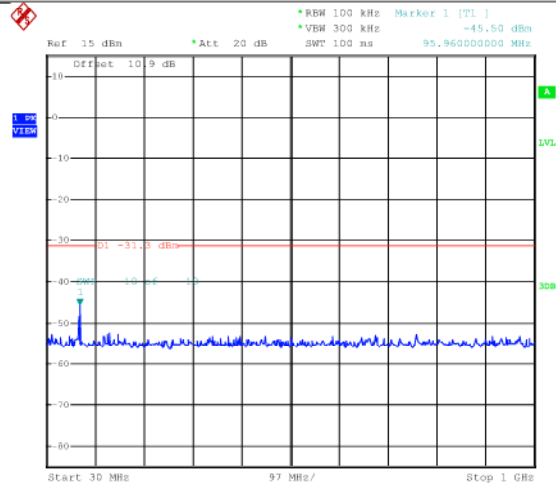


2DH5-Ant1-2480-1000~26500-PASS



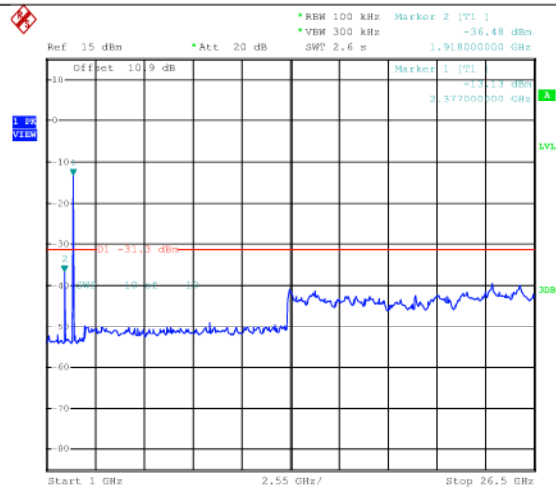
001-EIRP-L  
Date: 10.SEP.2024 20:00:45

### 3DH5-Ant1-2402-0~Reference-PASS



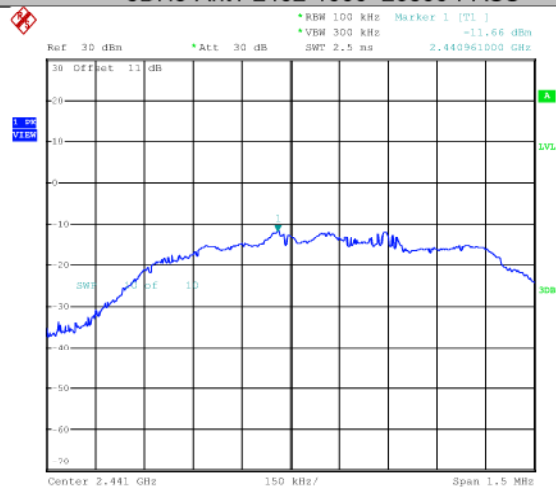
001-EIRP-L  
Date: 10.SEP.2024 20:00:58

### 3DH5-Ant1-2402-30~1000-PASS



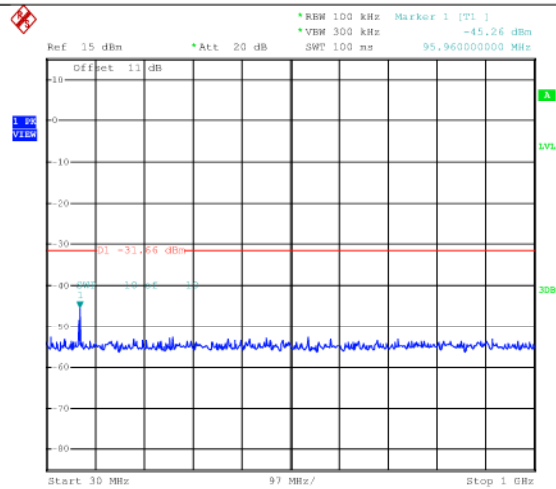
001-EIRP-L  
Date: 10.SEP.2024 20:02:43

3DH5-Ant1-2402-1000~26500-PASS



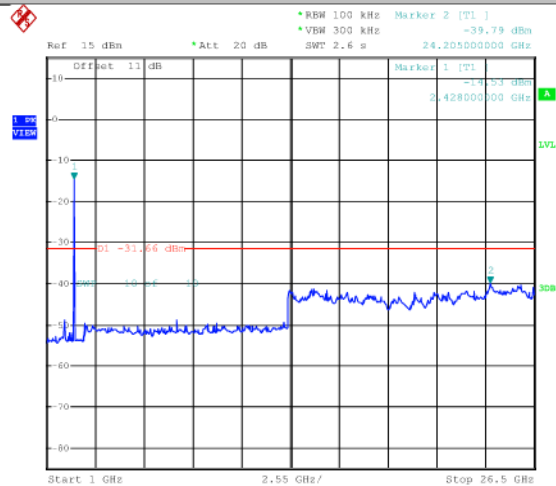
001-EIRP-L  
Date: 10.SEP.2024 20:03:40

3DH5-Ant1-2441-0~Reference-PASS



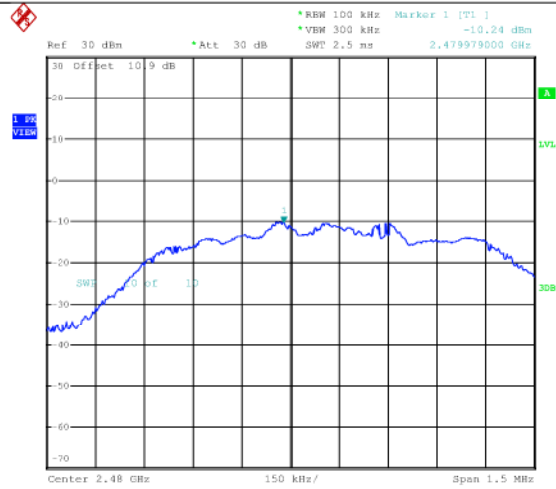
001-EIRP-L  
Date: 10.SEP.2024 20:03:53

3DH5-Ant1-2441-30~1000-PASS



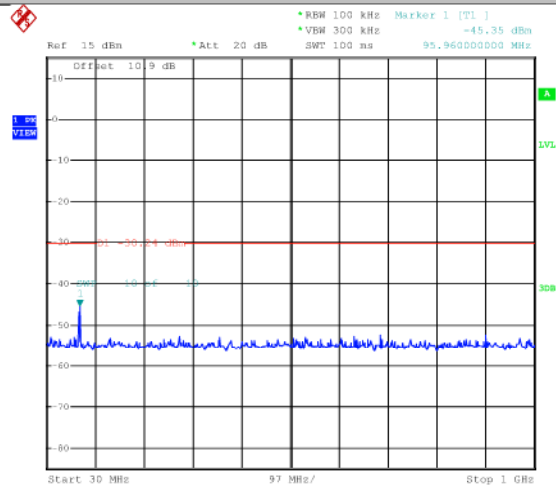
001-EIRP-L  
Date: 10.SEP.2024 20:05:37

3DH5-Ant1-2441-1000~26500-PASS



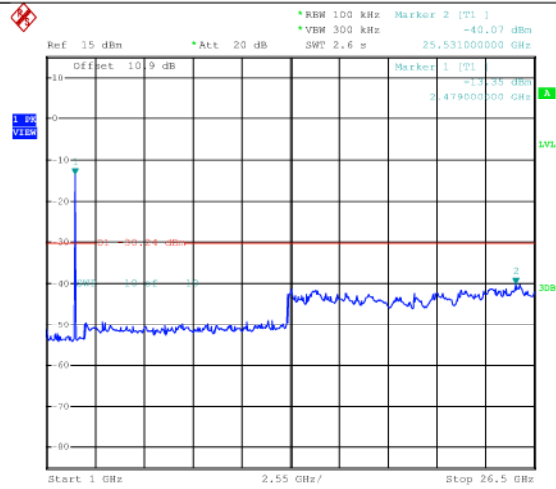
001-EIRP-L  
Date: 10.SEP.2024 20:07:50

3DH5-Ant1-2480-0~Reference-PASS



001-EIRP-L  
Date: 10.SEP.2024 20:08:03

3DH5-Ant1-2480-30~1000-PASS



001-EIRP-L  
Date: 10.SEP.2024 20:09:47

3DH5-Ant1-2480-1000~26500-PASS

## Appendix A.8: Test Results of Radiated Spurious Emissions

Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

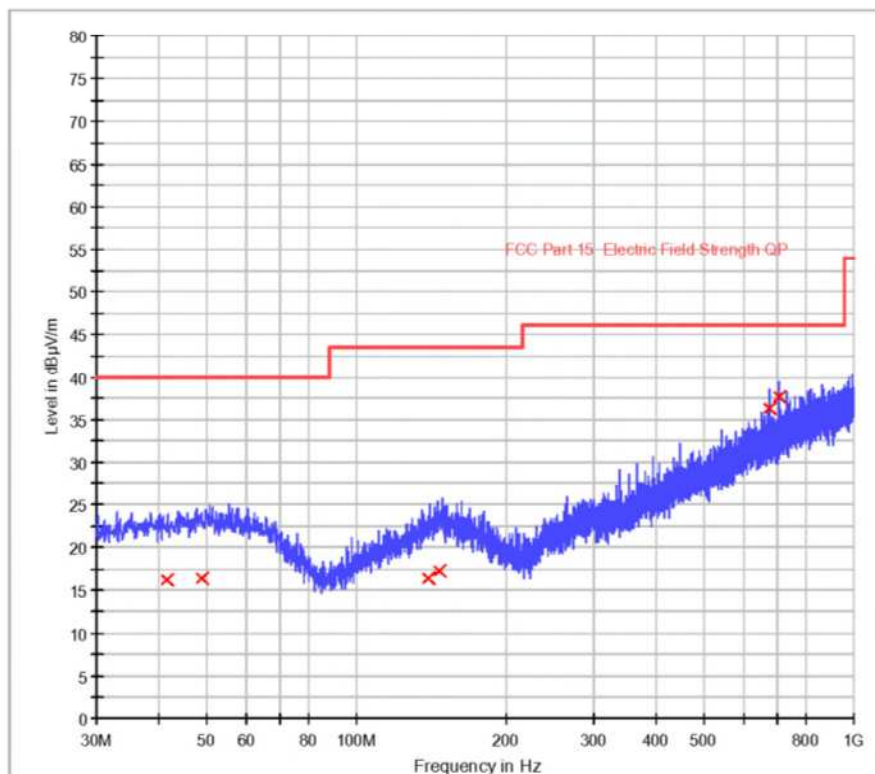
**30MHz - 1GHz- SWFT-SD14-BLK (Worst mode)**

### EMC Test Record (Emission)

#### Common Information

|                     |                                 |
|---------------------|---------------------------------|
| Manufacturer:       |                                 |
| Test Item:          | SWFT eScooter                   |
| Identification:     | SWFT-SD14-BLK                   |
| Test Standard:      | FCC Part 15C                    |
| Test Detail:        | Radiated Emission               |
| Operation Mode:     | TX BDR M                        |
| Climate Condition:  | 22 °C, 53 %, 101 kPa            |
| Test Voltage/ Freq: |                                 |
| Receipt No:         | 170386300                       |
| Report No:          | /                               |
| Result:             | Pass                            |
| Comment:            | Test distance is 3m; Horizontal |

|                  |            |
|------------------|------------|
| Subrange 1       |            |
| Frequency range: | 30-1000MHz |
| Receiver:        | ESCI 3     |
| Transducer:      | VULB9168   |



Tested by: *Janson Li* Reviewed by: *Jody Chen*  
20241014 20241015

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

### Limit and Margin

| Frequency<br>(MHz) | QuasiPeak<br>(dBµV/m) | Meas. Time<br>(ms) | Bandwidth<br>(kHz) | Pol | Corr.<br>(dB/m) | Margin<br>- QPK<br>(dB) | Limit -<br>QPK<br>(dBµV/m) |
|--------------------|-----------------------|--------------------|--------------------|-----|-----------------|-------------------------|----------------------------|
| 41.400000          | 16.2                  | 1000.0             | 120.000            | H   | 20.3            | 23.8                    | 40.0                       |
| 48.800000          | 16.5                  | 1000.0             | 120.000            | H   | 20.7            | 23.5                    | 40.0                       |
| 139.240000         | 16.5                  | 1000.0             | 120.000            | H   | 20.6            | 27.0                    | 43.5                       |
| 146.640000         | 17.2                  | 1000.0             | 120.000            | H   | 21.2            | 26.3                    | 43.5                       |
| 677.960000         | 36.3                  | 1000.0             | 120.000            | H   | 31.0            | 9.7                     | 46.0                       |
| 705.120000         | 37.7                  | 1000.0             | 120.000            | H   | 31.5            | 8.3                     | 46.0                       |

Tested by:  20241014  
Reviewed by:  20241015

TUV Rheinland (Guangdong) Ltd.

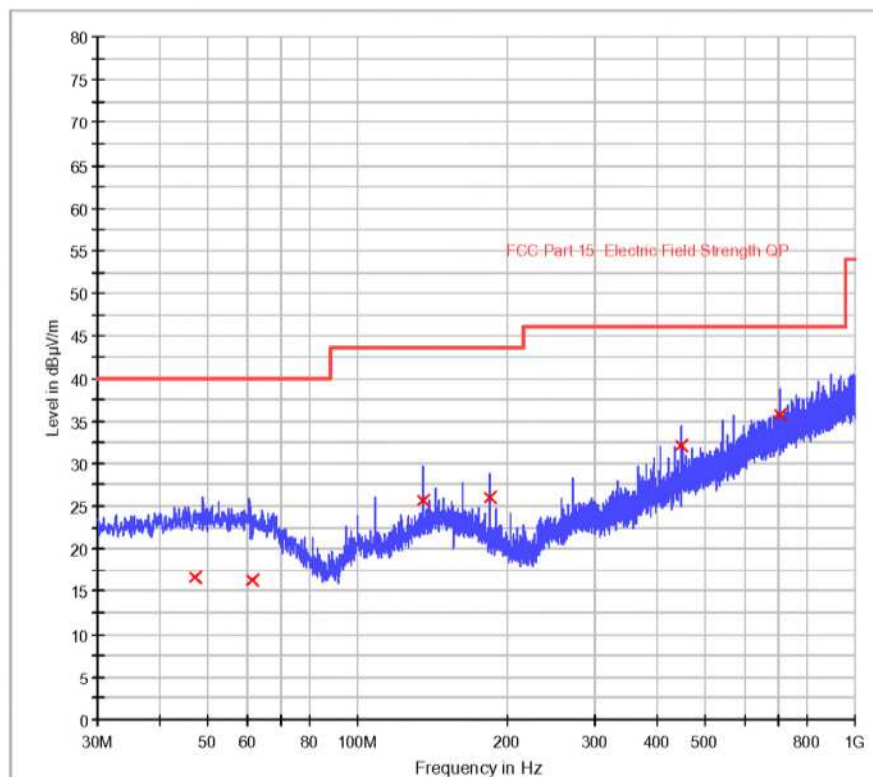
EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (Emission)

### Common Information

|                     |                               |
|---------------------|-------------------------------|
| Manufacturer:       |                               |
| Test Item:          | SWFT eScooter                 |
| Identification:     | SWFT-SD14-BLK                 |
| Test Standard:      | FCC Part 15C                  |
| Test Detail:        | Radiated Emission             |
| Operation Mode:     | TX BDR M                      |
| Climate Condition:  | 22 °C, 53 %, 101 kPa          |
| Test Voltage/ Freq: |                               |
| Receipt No:         | 170386300                     |
| Report No:          | /                             |
| Result:             | Pass                          |
| Comment:            | Test distance is 3m; Vertical |

|                  |            |
|------------------|------------|
| Subrange 1       |            |
| Frequency range: | 30-1000MHz |
| Receiver:        | ESCI 3     |
| Transducer:      | VULB9168   |



Tested by: *Janson Li*  
20241014

Reviewed by: *Jacky Chon*  
20241015

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

### Limit and Margin

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV/m) | Meas. Time<br>(ms) | Bandwidth<br>(kHz) | Pol | Corr.<br>(dB/m) | Margin<br>- QPK<br>(dB) | Limit -<br>QPK<br>(dBμV/m) |
|--------------------|-----------------------|--------------------|--------------------|-----|-----------------|-------------------------|----------------------------|
| 46.960000          | 16.6                  | 1000.0             | 120.000            | V   | 20.8            | 23.4                    | 40.0                       |
| 61.280000          | 16.3                  | 1000.0             | 120.000            | V   | 20.0            | 23.7                    | 40.0                       |
| 135.480000         | 25.7                  | 1000.0             | 120.000            | V   | 20.1            | 17.8                    | 43.5                       |
| 184.360000         | 26.1                  | 1000.0             | 120.000            | V   | 19.2            | 17.4                    | 43.5                       |
| 447.480000         | 32.2                  | 1000.0             | 120.000            | V   | 26.5            | 13.8                    | 46.0                       |
| 705.120000         | 35.9                  | 1000.0             | 120.000            | V   | 31.5            | 10.1                    | 46.0                       |

Tested by:  20241014  
Reviewed by:  20241015

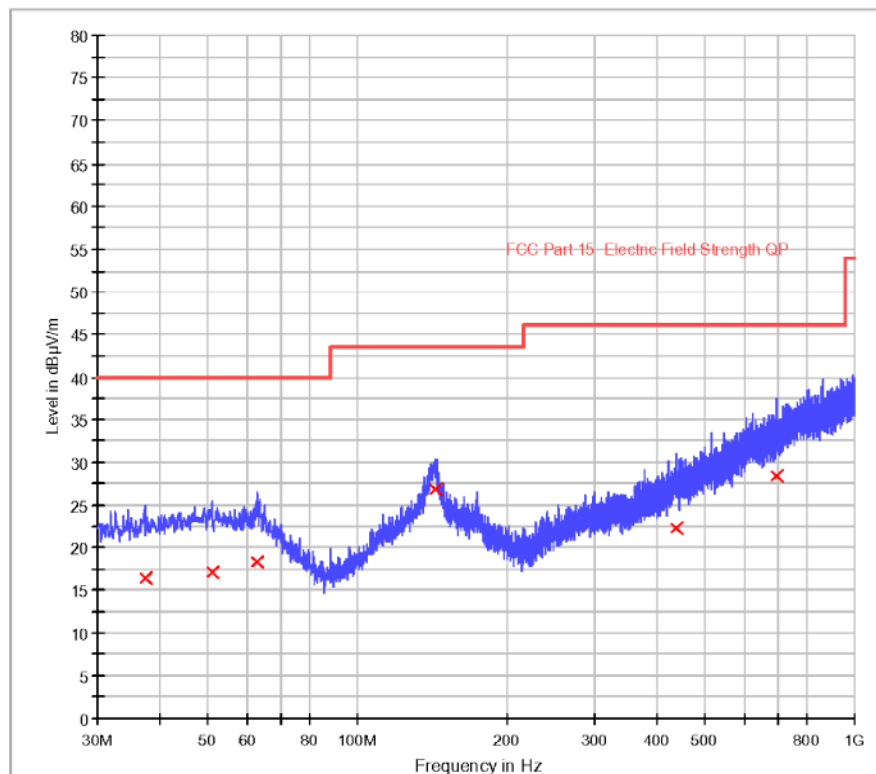
30MHz - 1GHz-SWFT-XPRP-BLK(Worst mode)

## EMC Test Record (Emission)

### Common Information

|                     |                                 |
|---------------------|---------------------------------|
| Manufacturer:       |                                 |
| Test Item:          | SWFT eScooter                   |
| Identification:     | SWFT-XPRP-BLK                   |
| Test Standard:      | FCC Part 15C                    |
| Test Detail:        | Radiated Emission TX            |
| Operation Mode:     | BT-BDR-M                        |
| Climate Condition:  | 22 °C, 53 %, 101 kPa            |
| Test Voltage/ Freq: |                                 |
| Receipt No:         | 170386300                       |
| Report No:          | /                               |
| Result:             | Pass                            |
| Comment:            | Test distance is 3m; Horizontal |

|                  |            |
|------------------|------------|
| Subrange 1       |            |
| Frequency range: | 30-1000MHz |
| Receiver:        | ESCI 3     |
| Transducer:      | VULB9168   |



Tested by: *Cesare Qiao*  
202401128

Reviewed by: *Jacky Chen*  
20241129

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

### Limit and Margin

| Frequency<br>(MHz) | QuasiPeak<br>(dBµV/m) | Meas. Time<br>(ms) | Bandwidth<br>(kHz) | Pol | Corr.<br>(dB/m) | Margin<br>- QPK<br>(dB) | Limit -<br>QPK<br>(dBµV/m) |
|--------------------|-----------------------|--------------------|--------------------|-----|-----------------|-------------------------|----------------------------|
| 37.400000          | 16.4                  | 1000.0             | 120.000            | H   | 19.9            | 23.6                    | 40.0                       |
| 50.960000          | 17.1                  | 1000.0             | 120.000            | H   | 20.8            | 22.9                    | 40.0                       |
| 62.960000          | 18.4                  | 1000.0             | 120.000            | H   | 19.9            | 21.6                    | 40.0                       |
| 143.000000         | 26.9                  | 1000.0             | 120.000            | H   | 20.9            | 16.6                    | 43.5                       |
| 437.160000         | 22.2                  | 1000.0             | 120.000            | H   | 26.2            | 23.8                    | 46.0                       |
| 697.720000         | 28.5                  | 1000.0             | 120.000            | H   | 31.5            | 17.5                    | 46.0                       |

Tested by: *Cesare Gao* Reviewed by: *Jacky Chen*  
202401128 20241129

TUV Rheinland (Guangdong) Ltd.

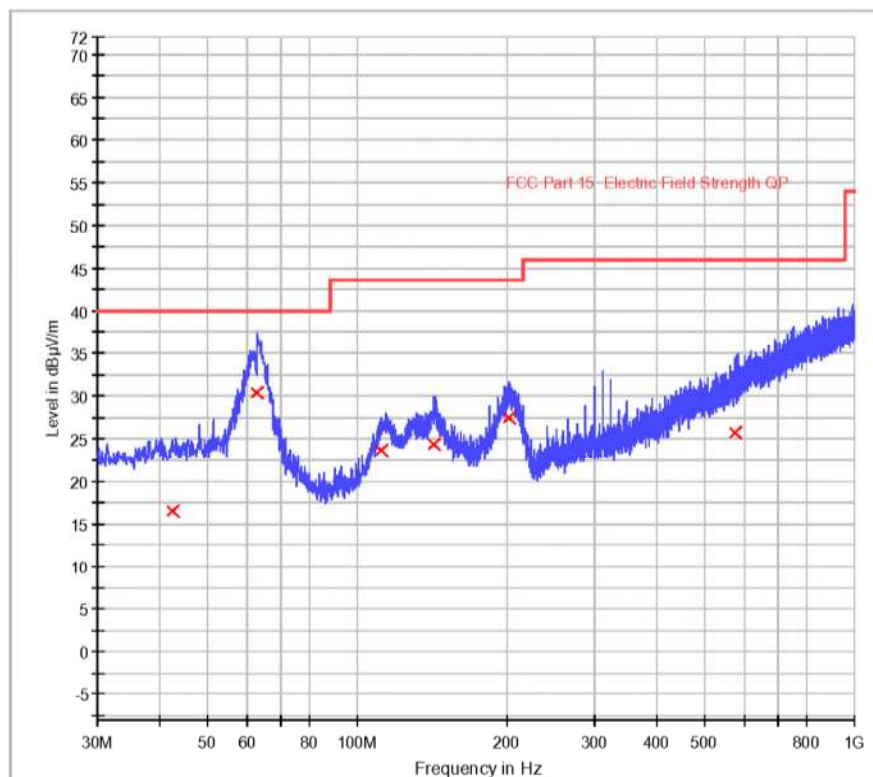
EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (Emission)

### Common Information

|                     |                               |
|---------------------|-------------------------------|
| Manufacturer:       |                               |
| Test Item:          | SWFT eScooter                 |
| Identification:     | SWFT-XPRP-BLK                 |
| Test Standard:      | FCC Part 15C                  |
| Test Detail:        | Radiated Emission             |
| Operation Mode:     | TX BT-BDR-M                   |
| Climate Condition:  | 22 °C, 53 %, 101 kPa          |
| Test Voltage/ Freq: |                               |
| Receipt No:         | 170386300                     |
| Report No:          | /                             |
| Result:             | Pass                          |
| Comment:            | Test distance is 3m; Vertical |

|                  |            |
|------------------|------------|
| Subrange 1       |            |
| Frequency range: | 30-1000MHz |
| Receiver:        | ESCI 3     |
| Transducer:      | VULB9168   |



Tested by: *Cesare Gao*  
202401128

Reviewed by: *Jacky Chen*  
20241129