# TEST REPORT

**REPORT NUMBER: 25B02W000005-007**

**ON**

| | |
|---|---|
| **Type of Equipment:** | Barcode Reader |
| **Type of Designation:** | DLMKWF |
| **Brand Name:** | DATALOGIC |
| **Manufacturer:** | Datalogic S.r.l. |
| **FCC ID:** | U4G-DLMKWF |
| **IC** | 3862E-DLMKWF |

**ACCORDING TO**

FCC Part 2, FCC Part 15C, RSS-Gen Issue 5, RSS-247 Issue 3,ANSI C63.10-2013

**Chongqing Academy of Information and Communications Technology**

***Month date, year***
*Apr.18th, 2025*
***Signature***

*Zhou Jin*
***Director***

**Note:**
The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.

**Revision Version**

| Report Number | Revision | Date |
|---|---|---|
| 25B02W000005-007 | 00 | 2025-04-18 |

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# 1. Test Laboratory

## 1.1. Testing Location

| | |
|---|---|
| Name: | Chongqing Academy of Information and Communications Technology |
| Designation Number: | CN1239 |
| IC Registration Number: | 29397 |
| Address: | No.19 EastRoad,Xiantao Big-data Valley,Yubei District,Chongqing,People's Republic of China |
| Postal Code: | 401336 |
| Telephone: | 0086-23-88069965 |
| Fax: | 0086-23-88608777 |

## 1.2. Testing Environment

| | |
|---|---|
| Normal Temperature: | 15-35℃ |
| Relative Humidity: | 30-75% |

## 1.3. Project data

| | |
|---|---|
| Testing Start Date: | 2025-03-25 |
| Testing End Date: | 2025-04-14 |

## 1.4. Signature

| | |
|---|---|
| 李润豪 | **2025-04-18** |
| **Li Runhao**<br>**(Prepared this test report)** | **Date** |
| | **2025-04-18** |
| **Wang Lili**<br>**(Reviewed this test report)** | **Date** |
| 周进 | **2025-04-18** |
| **Zhou Jin**<br>**Director of the laboratory**<br>**(Approved this test report)** | **Date** |

# 2. Client Information

## 2.1. Applicant Information

| | |
|---|---|
| Company Name: | Datalogic S.r.l. |
| Address /Post: | Via San Vitalino no.13, Calderara di Reno -40012(BO)-ltaly |
| City: | Calderara di Reno |
| Country: | ltaly |
| Telephone: | +39 051 3147 393 |
| Fax: | N/A |
| Email: | Ruggero.Cacioppo@datalogic.com |
| Contact Person: | Ruggero Cacioppo |

## 2.2. Manufacturer Information

| | |
|---|---|
| Company Name: | Datalogic S.r.l. |
| Address /Post: | Via San Vitalino no.13, Calderara di Reno -40012(BO)-ltaly |
| City: | Calderara di Reno |
| Country: | ltaly |
| Telephone: | +39 051 3147 393 |
| Fax: | N/A |
| Email: | Ruggero.Cacioppo@datalogic.com |
| Contact Person: | Ruggero Cacioppo |

# 3. Equipment under Test (EUT) and Ancillary Equipment (AE)

## 3.1. About EUT

| | |
|---|---|
| EUT Description | Barcode Reader |
| Model name | DLMKWF |
| Brand name | DATALOGIC |
| BLUETOOTH Frequency Band | 2402MHz-2480MHz |
| Type of BT modulation | GFSK; π/4 DQPSK; 8DPSK |
| HVIN | DLMKWF |
| Extreme Temperature | -20/+50°C |
| Nominal Test Voltage | 3.85V |
| Extreme Test High Voltage | 4.4V |
| Extreme Test Low Voltage | 3.6V |

Note1: Photographs of EUT are shown in ANNEX A of this test report.
Note2: High and low voltage values in extreme condition test are given by manufacturer.
Note3: The Extreme Temperature is provided by the manufacturer and has not been verified by the laboratory.

## 3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version | Date of receipt |
|---|---|---|---|---|
| 25B02W000005#S07 | S25CC0873 | V00 | 0.00.01.20250311 | 2025-03-20 |
| 25B02W000005#S16 | 867529060024650 | V00 | 0.00.01.20250311 | 2025-03-27 |

*EUT ID: is used to identify the test sample in the lab internally.

| No. | Item(s) | Data |
|---|---|---|
| 1 | Antenna gain of EUT | 1.13 dBi |
| Note: The data of aantenna gain is provided by the Antenna specification may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer. | | |

## 3.3. Outline of Equipment under Test

| Technology | Band | UL Freq. (MHz) | DL Freq. (MHz) | Channel Separation |
|---|---|---|---|---|
| BLUETOOTH | CH0-78 | 2402-2480 | | 1MHz |

**Test frequency list:**

| | | | | |
|---|---|---|---|---|
| GFSK | Channel | 0 | 39 | 78 |
| | Freq. (MHz) | 2402 | 2441 | 2480 |
| π/4 DQPSK | Channel | 0 | 39 | 78 |
| | Freq. (MHz) | 2402 | 2441 | 2480 |
| 8DPSK | Channel | 0 | 39 | 78 |
| | Freq. (MHz) | 2402 | 2441 | 2480 |

**Emissions Information:**

| TestMode | Frequency Min(MHz) | Frequency Max(MHz) | Max OutPut Power(dBm) | Max OutPut Power(W) | OBW (KHz) | Necessary Bandwidth & Emission Classification |
|---|---|---|---|---|---|---|
| DH5 | 2402 | 2480 | 8.96 | 0.0079 | 768 | 768KF1D |
| 2DH5 | 2402 | 2480 | 8.42 | 0.0070 | 1164 | 1M16G1D |
| 3DH5 | 2402 | 2480 | 8.38 | 0.0069 | 1161 | 1M16G1D |

Note: This report is for BT only.

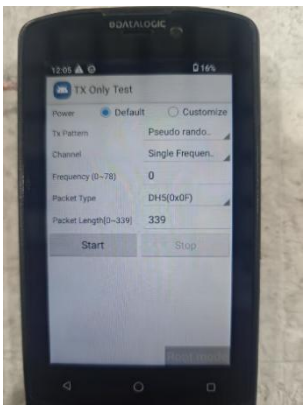
## 3.4. Internal Identification of AE used during the test

| AE ID* | Description | Note |
|---|---|---|
| BA01 | Battery | Model: MK2-BY-202<br>3.85V 4850mAh |
| AE1 | RF cable | 1.0dB |

*AE ID: is used to identify the test sample in the lab internally.
dB*: is provided customer.

## 3.5. EUT Test RF Configuration

EUT uses engineering mode to control RF emissions, changing power levels, channels, rates, and HT.


DATALOGIC
12:05
16%
TX Only Test
Power
Default
Customize
Tx Pattern
Pseudo rando..
Channel
Single Frequen..
Frequency (0~78)
0
Packet Type
DH5(0x0F)
Packet Length(0~339)
339
Start
Stop

# 4. Reference Documents

## 4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

## 4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference | Title | Version |
|---|---|---|
| FCC Part 2 | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations | -- |
| FCC Part 15C | FCC CFR 47, Part 15, Subpart C:<br>15.205 Restricted bands of operation;<br>15.209 Radiated emission limits, general requirements;<br>15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz | -- |
| RSS-Gen Issue 5 | General Requirements for Compliance of Radio Apparatus | 2021 |
| RSS-247 Issue 3 | Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices | 2023 |
| ANSI C63.10 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices | 2013 |
| KDB 558074 D01 15.247 Meas Guidance v05r02 | Guidance for Performing Compliance Measurements on Frequency Hopping Spread Spectrum systems (DSS) Operating Under §15.247 | -- |
| Note: FCC Part 2 and KDB 558074 D01 15.247 Meas Guidance v05r02 is not A2LA certified. | | |

# 5. Test Equipments Utilized

## 5.1. RF Test System

| No. | Equipment | Model | SN | HW Version | SW Version | Manufacture | Cal. Interval | Cal.Due Date |
|---|---|---|---|---|---|---|---|---|
| 1 | Spectrum analyzer | FSQ 26 | 201137 | -- | -- | R&S | 1 Year | 2025-06-28 |
| 2 | T-SWT01 RF switch unit | -- | -- | -- | -- | Beijing Zhiwang Xince Technology Co., Ltd | -- | -- |

## 5.2. RSE and CE Test System

| No. | Equipment | Model | SN | HW Version | SW Version | Manufacture | Cal. Interval | Cal.Due Date |
|---|---|---|---|---|---|---|---|---|
| 1 | EMI Test Receiver | ESU40 | 100307 | -- | -- | R&S | 1 Year | 2025-06-28 |
| 2 | TRILOG Broadband Antenna | VULB9163 | 9163-586 | -- | -- | Schwarzbeck | 2 Years | 2026-10-28 |
| 3 | Horn antenna | 9120D | 1083 | -- | -- | Schwarzbeck | 2 Years | 2026-11-08 |
| 4 | Horn antenna | DATE 1152 | LM7127 | -- | -- | ETS | 2 Years | 2026-09-30 |
| 5 | Horn antenna | DATE 1012 | LM5945 | -- | -- | ETS | 2 Years | 2026-09-30 |
| 6 | Loop Antenna | 6502 | 00213256 | -- | -- | ETS | 1 Year | 2026-09-04 |
| 7 | Amplifier1 | SCU-08F1 | 8320027 | -- | -- | R&S | -- | -- |
| 8 | Amplifier2 | SCU-18F | 180093 | -- | -- | R&S | -- | -- |
| 9 | 2-Line V-Network | ENV216 | 102368 | -- | -- | R&S | 1 Year | 2025-05-16 |
| 10 | Test Receiver | ESR 3 | 101382 | 03 | 3.48 SP2 | R&S | 1 Year | 2025-06-28 |
| 11 | Test Receiver | ESW 26 | 101382 | 00 | 1.50 SP1 | R&S | 1 Year | 2025-06-28 |

### 5.3. Climate Chamber

| No. | Name | Type | SN | Manufacture | Cal. Interval | Cal.Due Date |
|---|---|---|---|---|---|---|
| -- | -- | -- | -- | -- | -- | -- |

### 5.4. Anechoic chamber Vibration table

| No. | Name | Type | SN | Manufacture | Cal. Interval | Cal.Due Date |
|---|---|---|---|---|---|---|
| 1 | Fully-Anechoic Chamber | FAC5 | -- | TDK | 3 Years | 2027-11-04 |
| 2 | Anechoic Chamber | SAC 10 | -- | TDK | 3 Years | 2027-11-05 |

### 5.5. Test software

| No. | Name | version | SN | Manufacture |
|---|---|---|---|---|
| 1 | EMC32 (Transmitter Spurious Emission-Radiated Above 1GHz) | V9.26.01 | -- | R&S |
| 2 | EMC32 (Transmitter Spurious Emission-Radiated Below 1GHz) | V 10.20.01 | -- | R&S |
| 3 | EMC32 (AC Powerline Conducted Emission) | V 10.40.10 | -- | R&S |
| 4 | WIFI/BT CE/FCC/ICautomated testing software | V1.0.0.0 | -- | Beijing Zhiwang Xince Technology Co., Ltd |

# 6. Test Results

## 6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

| FCC Rules | IC Rules | Name of Test | Result |
|---|---|---|---|
| 15.247(b) | RSS-247 5.4 | Maximum Peak Output Power | Pass |
| 15.247(a) | RSS-247 5.1 | 20dB Occupied Bandwidth | N/A[note3] |
| 2.1049 | RSS-GEN 6.7 | 99% Occupied Bandwidth | N/A[note3] |
| 15.247 (d) | RSS-247 5.5 | Band Edges Compliance | Pass |
| 15.247(a) | RSS-247 5.1 | Time Of Occupancy (Dwell Time) | Pass |
| 15.247(a) | RSS-247 5.1 | Carrier Frequency Separation | Pass |
| 15.247(a) | RSS-247 5.1 | Number Of Hopping Channels | Pass |
| 15.247(d) | RSS-247 5.5 | Transmitter Spurious Emission-Conducted | Pass |
| 15.247,15.209,15.205 | RSS-GEN 8.9, 8.10 | Transmitter Spurious Emission-Radiated | Pass |
| 15.207 | RSS-GEN 8.8 | AC Powerline Conducted Emission | Pass |
| 15.203/15.247(c) | RSS Gen 6.8, RSS-247 5.4 | Antenna requirement | Pass [Note 2] |

NOTE 1：The mobile computer, manufactured by Datalogic S.r.l. is a new product for testing.
NOTE 2：Bluetooth used an Internal antenna with max Gain 1.13 dBi that complied with 15.203/15.247(c) Requirements.
NOTE 3：Unrestricted requirements.

## 6.2. Peak Output Power-Conducted

| | |
|---|---|
| **Specifications:** | FCC 47 Part 15.247(b), RSS-247 5.4 |
| **DUT Serial Number:** | 25B02W000005#S16 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | Pass |

### Limit Level Construction:

| Standard | Conducted Limit (dBm) | EIRP Limit(dBm) |
|---|---|---|
| FCC 47 Part 15.247(b) | GFSK:≤30, pi/4-DQPSK and 8DPSK≤20.97 | N/A |
| RSS-247 5.4(b) | GFSK:≤30, pi/4-DQPSK and 8DPSK≤20.97 | ≤36 |

### Measurement Uncertainty:

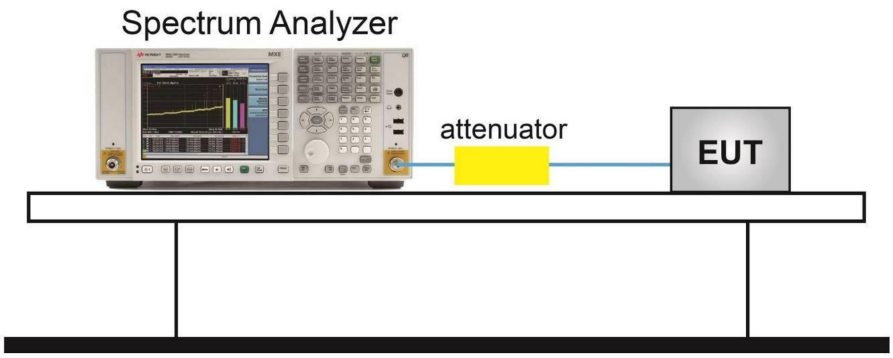
| | |
|---|---|
| Measurement Uncertainty | 0.36dB |

### Test Procedure

The measurement is according to ANSI C63.10 clause 7.8.5.

1. The output power of EUT was connected to the spectrum analyzer by cable and divide. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Use the following spectrum analyzer settings:
   a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
   b) RBW > 20 dB bandwidth of the emission being measured.
   c) VBW ≥ RBW.
   d) Sweep: Auto.
   e) Detector function: Peak.
   f) Trace: Max hold.
4. Allow trace to stabilize.
5. Use the marker-to-peak function to set the marker to the peak of the emission.
6. The indicated level is the peak output power, after any corrections for external attenuators and cables.
7. Record the results.

**Test setup:**



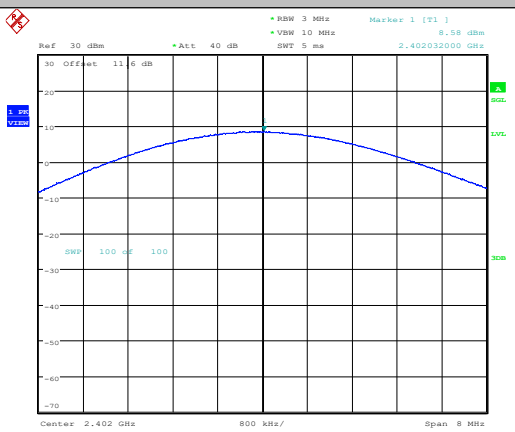
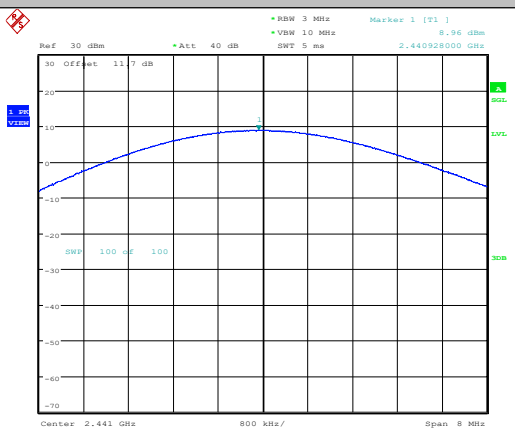
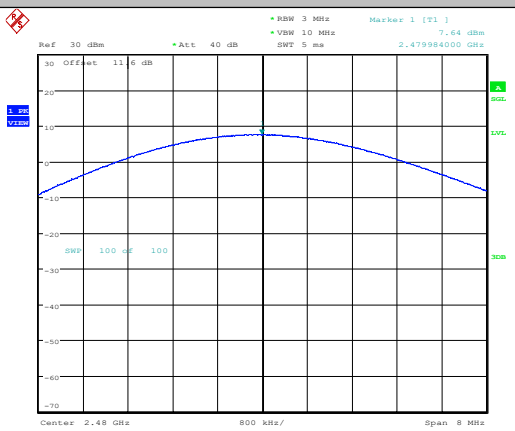
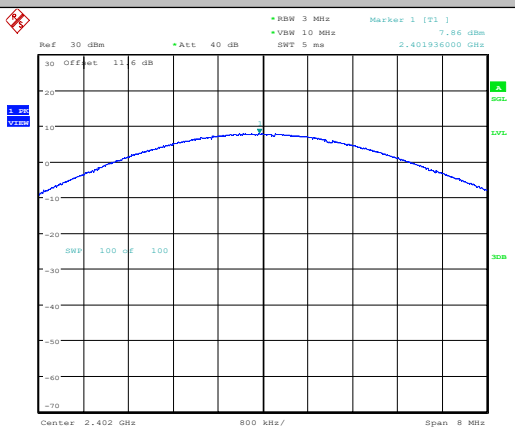
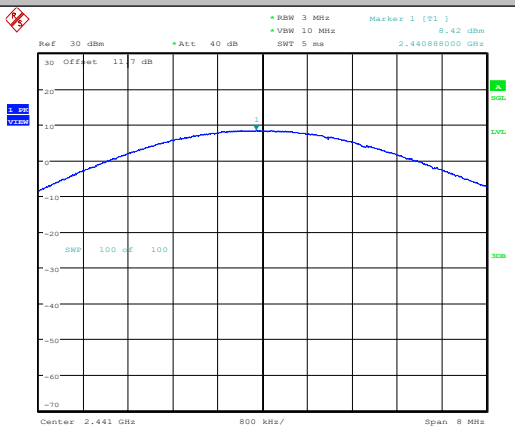
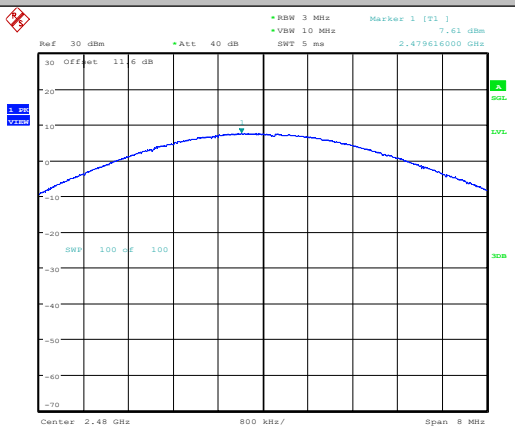

**Antenna gain of EUT:**

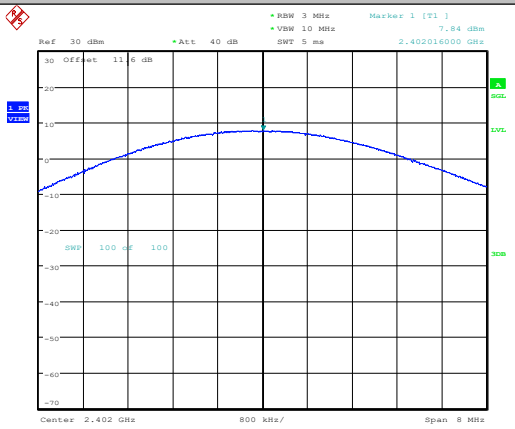
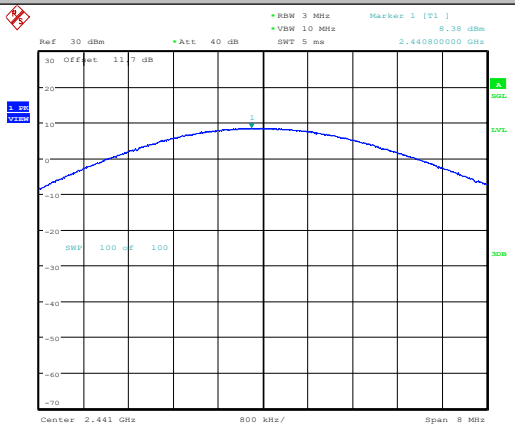
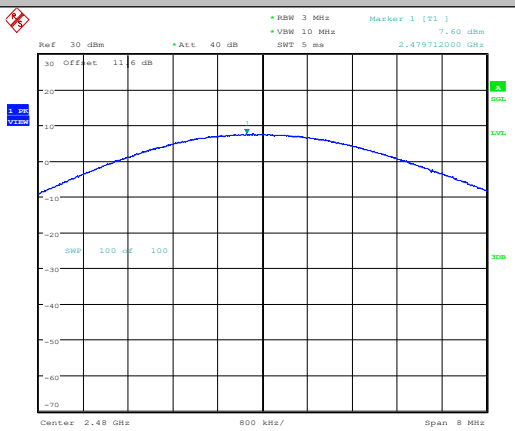
| No. | Item(s) | Data |
|---|---|---|
| 1 | Antenna gain of EUT | 1.13dBi |
| Note: The data is provided by the customer may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer. | | |

**Measurement Results:**

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Powert[dBm] | Conducted Limit[dBm] | EIRP[dBm] | EIRP Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | 2402 | 8.58 | ≤30 | 9.71 | ≤36 | PASS |
| DH5 | Ant1 | 2441 | 8.96 | ≤30 | 10.09 | ≤36 | PASS |
| DH5 | Ant1 | 2480 | 7.64 | ≤30 | 8.77 | ≤36 | PASS |
| 2DH5 | Ant1 | 2402 | 7.86 | ≤20.97 | 8.99 | ≤36 | PASS |
| 2DH5 | Ant1 | 2441 | 8.42 | ≤20.97 | 9.55 | ≤36 | PASS |
| 2DH5 | Ant1 | 2480 | 7.61 | ≤20.97 | 8.74 | ≤36 | PASS |
| 3DH5 | Ant1 | 2402 | 7.84 | ≤20.97 | 8.97 | ≤36 | PASS |
| 3DH5 | Ant1 | 2441 | 8.38 | ≤20.97 | 9.51 | ≤36 | PASS |
| 3DH5 | Ant1 | 2480 | 7.60 | ≤20.97 | 8.73 | ≤36 | PASS |

Test Graphs

| DH5-Ant1-2402-PASS | DH5-Ant1-2441-PASS |
|---|---|
|  |  |
| Date: 27.MAR.2025 14:06:15 | Date: 27.MAR.2025 14:13:10 |
| **DH5-Ant1-2480-PASS** | **2DH5-Ant1-2402-PASS** |
|  |  |
| Date: 27.MAR.2025 14:13:40 | Date: 27.MAR.2025 14:15:19 |
| **2DH5-Ant1-2441-PASS** | **2DH5-Ant1-2480-PASS** |
|  |  |
| Date: 27.MAR.2025 14:16:14 | Date: 27.MAR.2025 14:16:54 |

| 3DH5-Ant1-2402-PASS | 3DH5-Ant1-2441-PASS |
|---|---|
|   Date: 27.MAR.2025 14:22:09 |   Date: 27.MAR.2025 14:22:44 |
| 3DH5-Ant1-2480-PASS | / |
|   Date: 27.MAR.2025 14:25:30 | / |

## 6.3. 20dB Bandwidth

| | |
|---|---|
| **Specifications:** | FCC 47 Part 15.247(a), RSS-247 5.1 |
| **DUT Serial Number:** | 25B02W000005#S16 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | -- |

### Limit Level Construction:

| Standard | Limit |
|---|---|
| FCC 47 Part 15.247(a) | N/A |
| RSS-247 5.1 | N/A |

### Measurement Uncertainty:

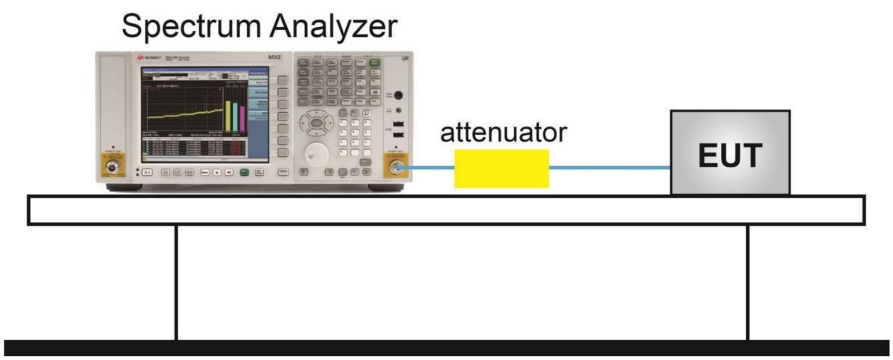
| | |
|---|---|
| Measurement Uncertainty | 3kHz |

### Test procedures:

The measurement is according to ANSI C63.10 clause 7.8.7

1. Connect the EUT through cable and divide with spectrum analyzer.
2. Enable the EUT transmit maximum power.
3. Set the spectrum analyzer as step 4 to step 7.
4. Span: two or five times of OBW
5. RBW= 1% to 5% of the OBW; VBW is approximately three times of RBW; Max Hold.
6. Select the max peak, and N DB DOWN=20dB.
7. Record the results.

### Test Setup:

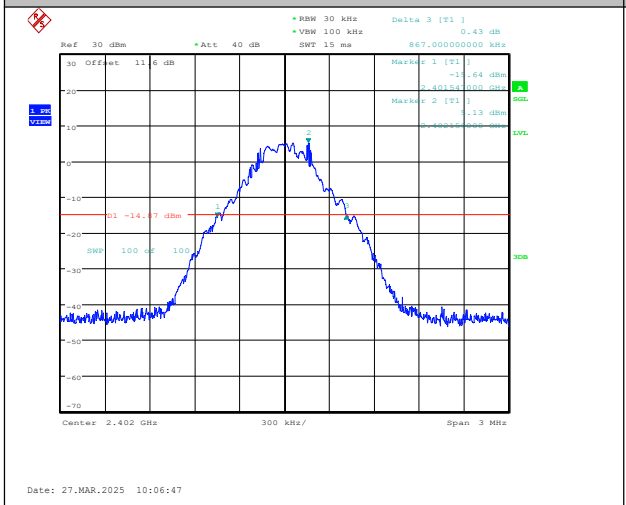



### Measurement Results:

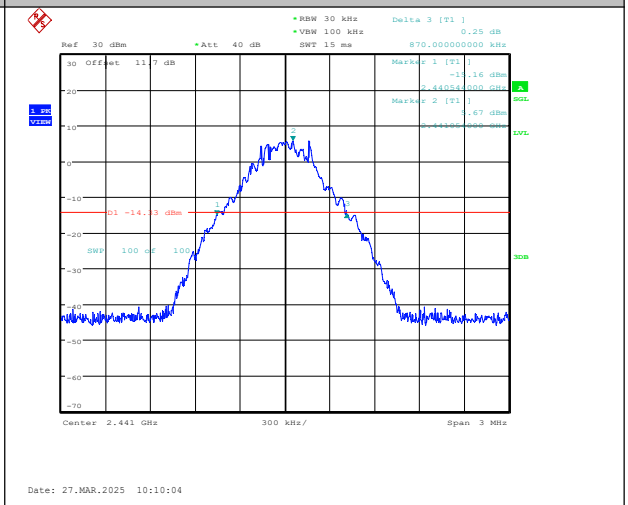
| TestMode | Antenna | Frequency[MHz] | 20db EBW[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | 2402 | 0.87 | 2401.55 | 2402.41 | --- | --- |
| DH5 | Ant1 | 2441 | 0.87 | 2440.54 | 2441.41 | --- | --- |
| DH5 | Ant1 | 2480 | 0.87 | 2479.54 | 2480.41 | --- | --- |
| 2DH5 | Ant1 | 2402 | 1.28 | 2401.36 | 2402.65 | --- | --- |
| 2DH5 | Ant1 | 2441 | 1.27 | 2440.37 | 2441.64 | --- | --- |
| 2DH5 | Ant1 | 2480 | 1.28 | 2479.36 | 2480.64 | --- | --- |
| 3DH5 | Ant1 | 2402 | 1.28 | 2401.35 | 2402.63 | --- | --- |
| 3DH5 | Ant1 | 2441 | 1.28 | 2440.35 | 2441.64 | --- | --- |
| 3DH5 | Ant1 | 2480 | 1.29 | 2479.35 | 2480.64 | --- | --- |

Test graphs

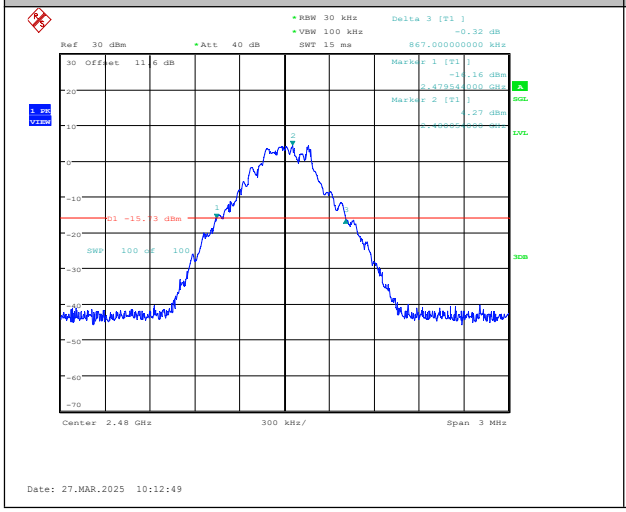
DH5-Ant1-2402



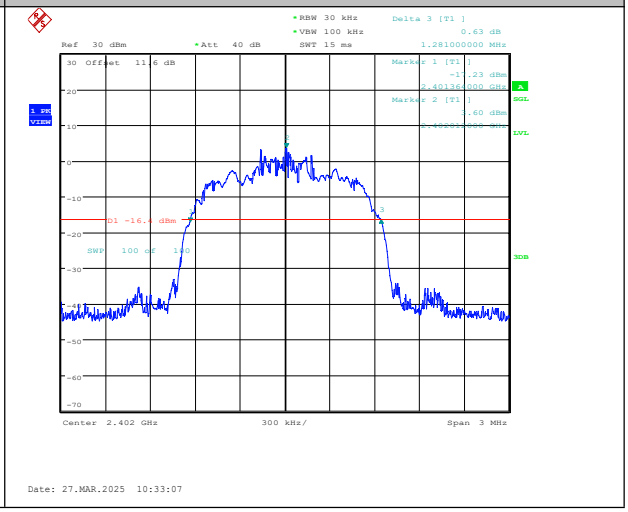

DH5-Ant1-2441

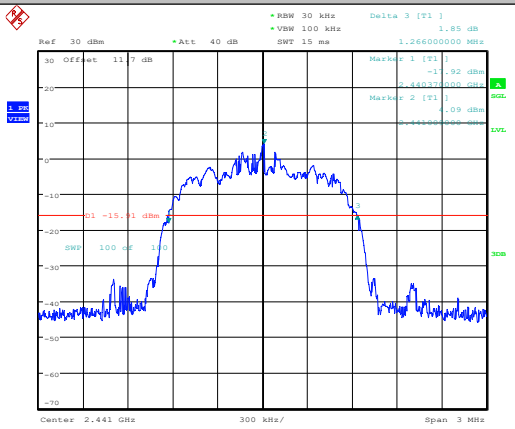
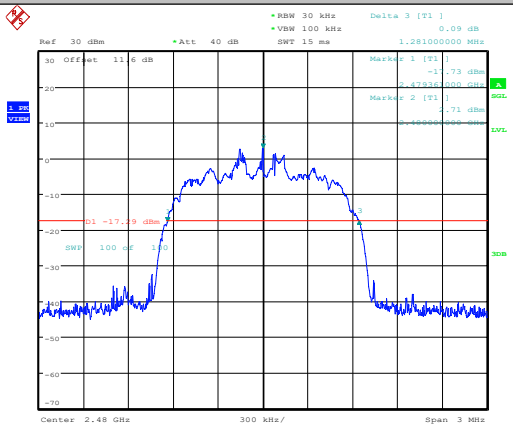
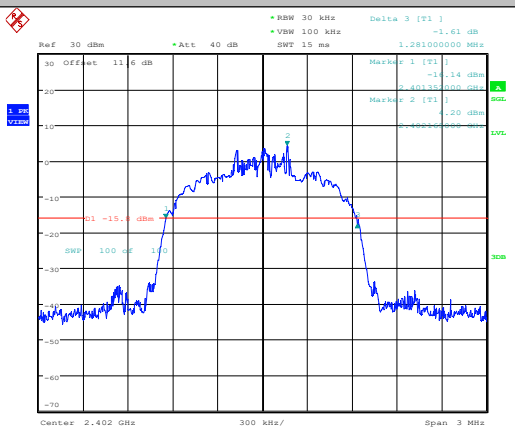
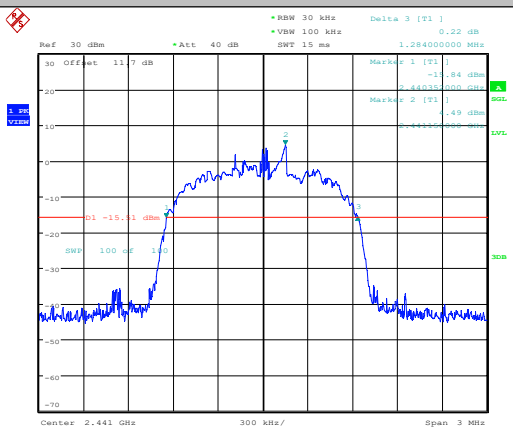
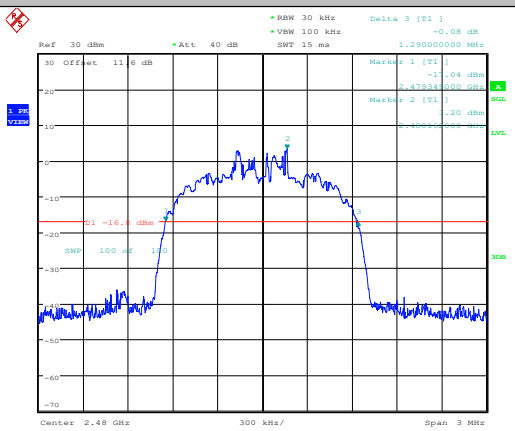



DH5-Ant1-2480




2DH5-Ant1-2402



| 2DH5-Ant1-2441 | 2DH5-Ant1-2480 |
|---|---|
|   Date: 27.MAR.2025 10:36:20 |   Date: 27.MAR.2025 10:39:33 |
| 3DH5-Ant1-2402 | 3DH5-Ant1-2441 |
|   Date: 27.MAR.2025 10:42:58 |   Date: 27.MAR.2025 10:45:59 |
| 3DH5-Ant1-2480 | / |
|   Date: 27.MAR.2025 10:52:00 | / |

## 6.4. 99% Occupied Bandwidth

| | |
|---|---|
| **Specifications:** | FCC 47 Part 2.1049, RSS-GEN 6.7 |
| **DUT Serial Number:** | 25B02W000005#S16 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | -- |

### Limit Level Construction:

| Standard | Limit |
|---|---|
| FCC 47 Part 2.1049 | N/A |
| RSS-GEN 6.7 | N/A |

### Measurement Uncertainty:

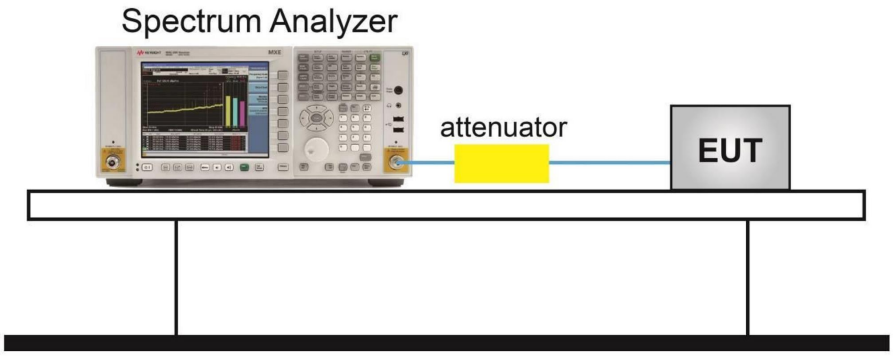
| Measurement Uncertainty | 3kHz |
|---|---|

### Test procedures:

The measurement is according to ANSI C63.10 clause 6.9.3.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set RBW shall be in the range of 1% to 5% of the OBW.
4. Set the VBW ≥ [3 × RBW].
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

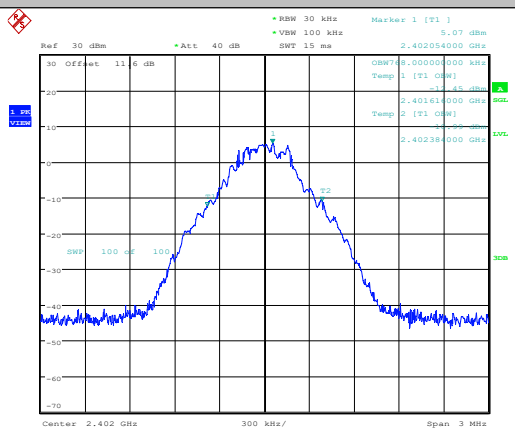
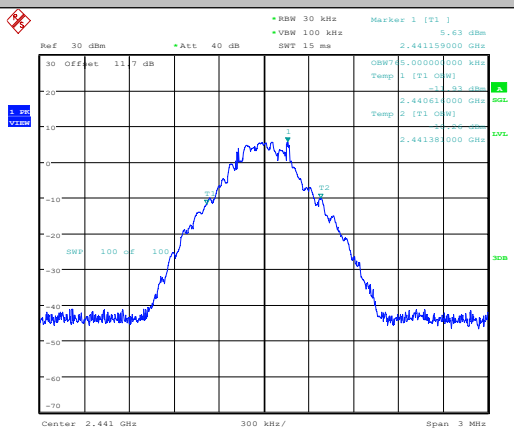
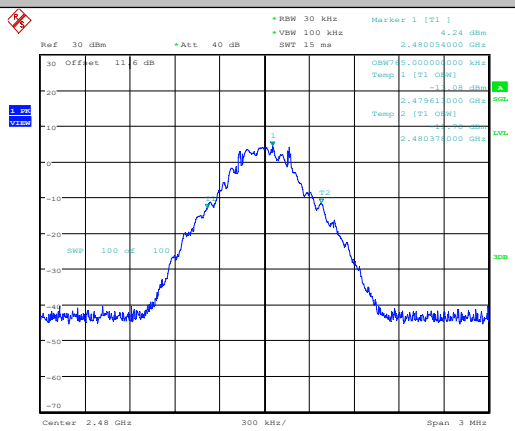
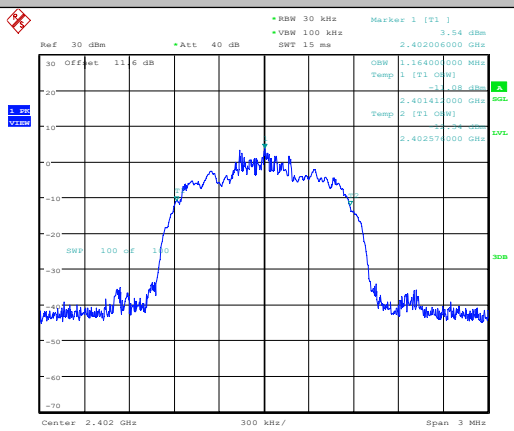
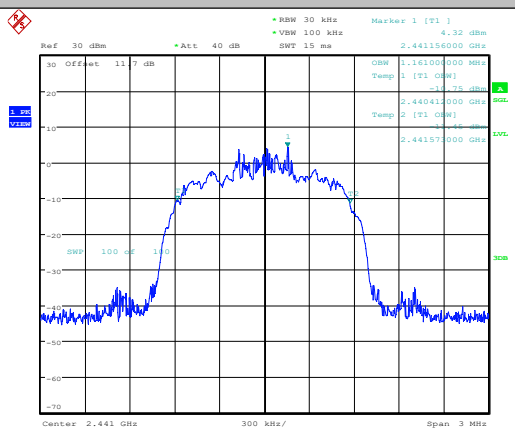
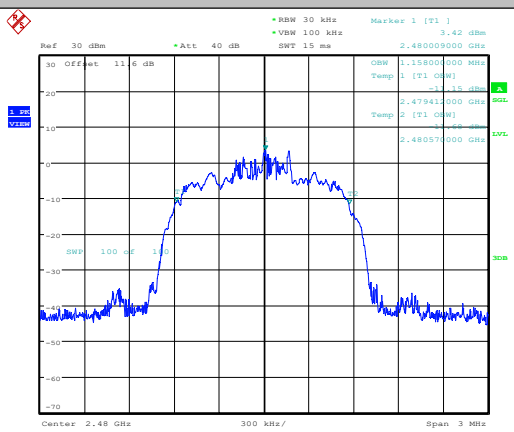
**Test setup:**

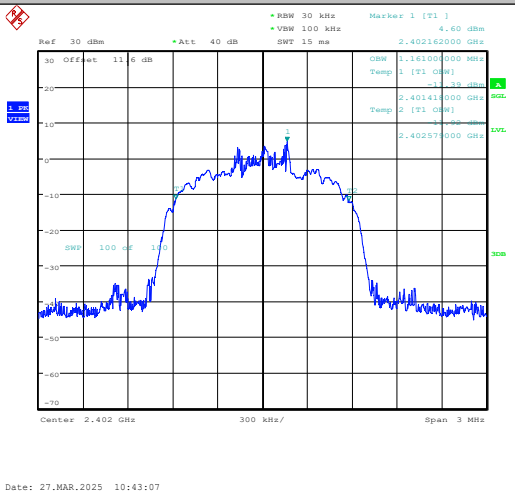
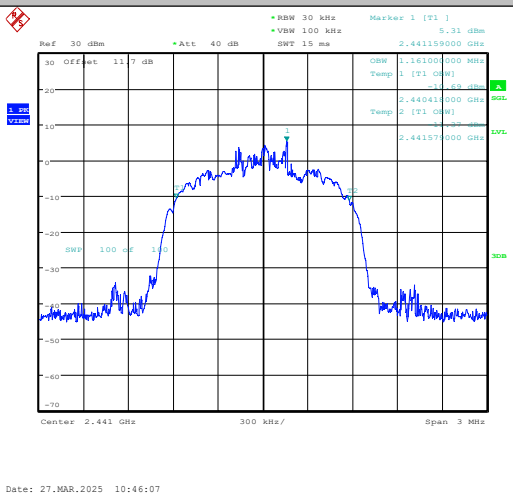
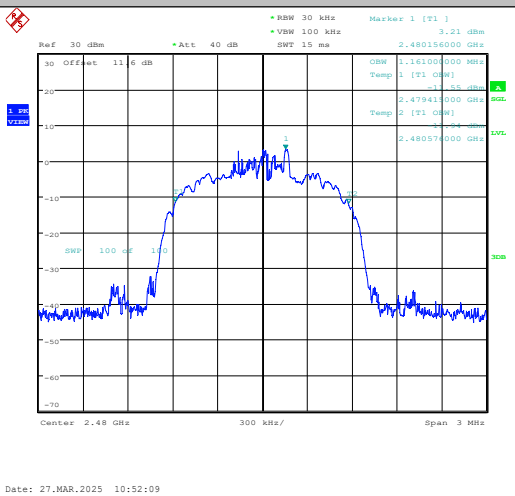



**Measurement Results:**

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | 2402 | 0.768 | 2401.6160 | 2402.3840 | --- | --- |
| DH5 | Ant1 | 2441 | 0.765 | 2440.6160 | 2441.3810 | --- | --- |
| DH5 | Ant1 | 2480 | 0.765 | 2479.6130 | 2480.3780 | --- | --- |
| 2DH5 | Ant1 | 2402 | 1.164 | 2401.4120 | 2402.5760 | --- | --- |
| 2DH5 | Ant1 | 2441 | 1.161 | 2440.4120 | 2441.5730 | --- | --- |
| 2DH5 | Ant1 | 2480 | 1.158 | 2479.4120 | 2480.5700 | --- | --- |
| 3DH5 | Ant1 | 2402 | 1.161 | 2401.4180 | 2402.5790 | --- | --- |
| 3DH5 | Ant1 | 2441 | 1.161 | 2440.4180 | 2441.5790 | --- | --- |
| 3DH5 | Ant1 | 2480 | 1.161 | 2479.4150 | 2480.5760 | --- | --- |

Test graph

| DH5-Ant1-2402 | DH5-Ant1-2441 |
|---|---|
|  |  |
| Date: 27.MAR.2025 10:06:55 | Date: 27.MAR.2025 10:10:13 |
| **DH5-Ant1-2480** | **2DH5-Ant1-2402** |
|  |  |
| Date: 27.MAR.2025 10:12:58 | Date: 27.MAR.2025 10:33:16 |
| **2DH5-Ant1-2441** | **2DH5-Ant1-2480** |
|  |  |
| Date: 27.MAR.2025 10:36:28 | Date: 27.MAR.2025 10:39:41 |

| 3DH5-Ant1-2402 | 3DH5-Ant1-2441 |
|---|---|
|  |  |
| 3DH5-Ant1-2480 | / |
|  | / |

## 6.5. Frequency Band Edges-Conducted

| | |
|---|---|
| **Specifications:** | FCC 47 Part 15.247(d), RSS-247 5.5 |
| **DUT Serial Number:** | 25B02W000005#S16 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | Pass |

### Limit Level Construction:

| Standard | Limit(dBc) |
|---|---|
| FCC 47 Part 15.247(d) | >20 |
| RSS-247 5.5 | >20 |

### Measurement Uncertainty:

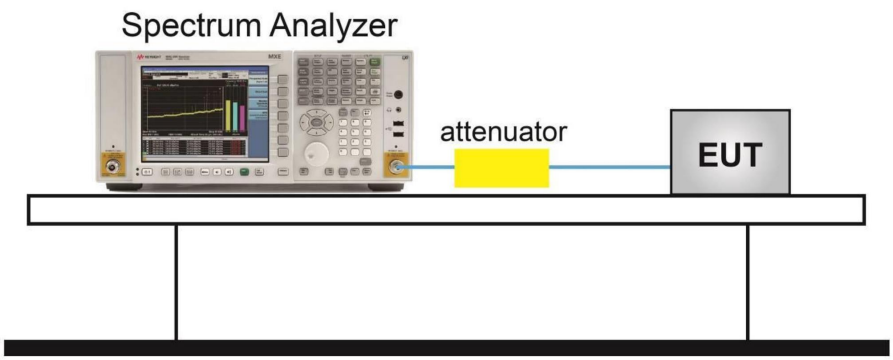
| | |
|---|---|
| Measurement Uncertainty | 0.72dB |

### Test procedures:

The measurement is according to ANSI C63.10 clause 7.8.6.

1. Connect the EUT to spectrum analyzer.
2. Set RBW=100k, VBW=300k, span more than 1.5 times channel bandwidth (2MHz).
3. Detector =peak, sweep time=auto couple, trace mode=max hold. Allow sweep to continue until the trace stabilizes.

### Test setup:

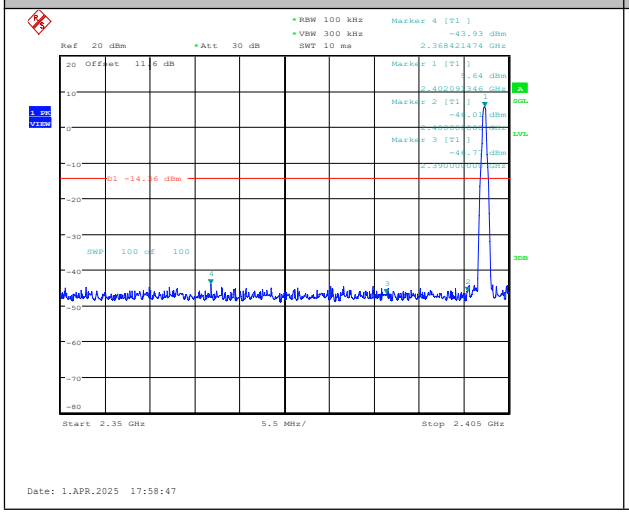


## Measurement Results:

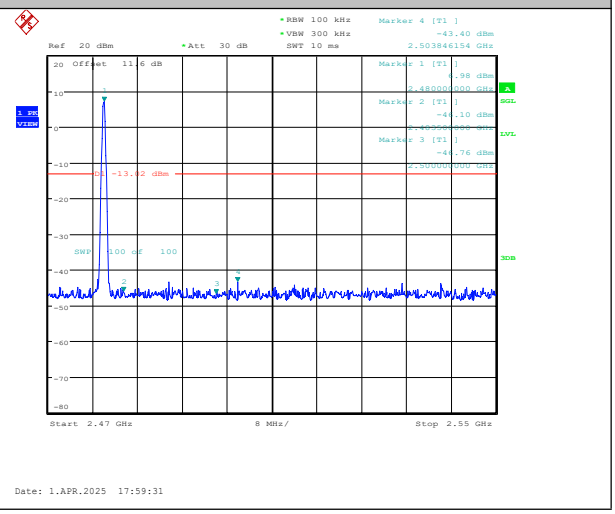
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | Low | 2402 | 5.64 | -43.93 | ≤-14.36 | PASS |
| DH5 | Ant1 | High | 2480 | 6.98 | -43.40 | ≤-13.02 | PASS |
| DH5 | Ant1 | Low | Hop_2402 | 5.72 | -43.53 | ≤-14.28 | PASS |
| DH5 | Ant1 | High | Hop_2480 | 9.16 | -43.57 | ≤-10.84 | PASS |
| 2DH5 | Ant1 | Low | 2402 | 5.44 | -45.10 | ≤-14.56 | PASS |
| 2DH5 | Ant1 | High | 2480 | 6.06 | -43.73 | ≤-13.94 | PASS |
| 2DH5 | Ant1 | Low | Hop_2402 | -0.12 | -43.96 | ≤-20.12 | PASS |
| 2DH5 | Ant1 | High | Hop_2480 | 8.35 | -43.53 | ≤-11.65 | PASS |
| 3DH5 | Ant1 | Low | 2402 | 5.00 | -44.21 | ≤-15.00 | PASS |
| 3DH5 | Ant1 | High | 2480 | 6.56 | -43.93 | ≤-13.44 | PASS |
| 3DH5 | Ant1 | Low | Hop_2402 | 0.56 | -42.37 | ≤-19.44 | PASS |
| 3DH5 | Ant1 | High | Hop_2480 | 5.81 | -42.76 | ≤-14.19 | PASS |

Test Graphs

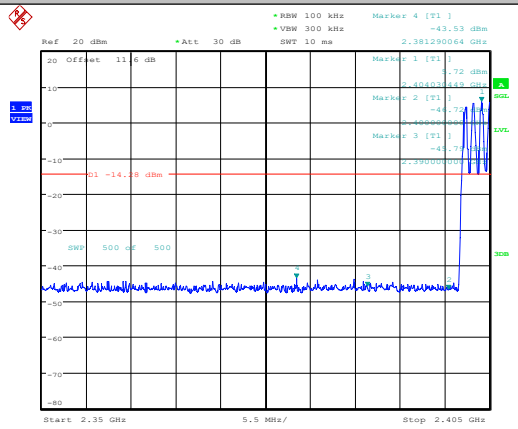
DH5-Ant1-2402-PASS




DH5-Ant1-2480-PASS

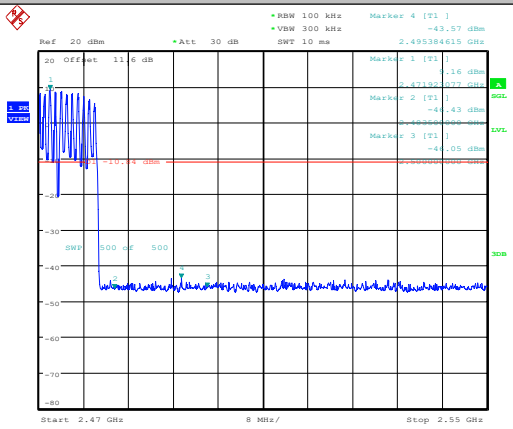


DH5-Ant1-Hop_2402-PASS



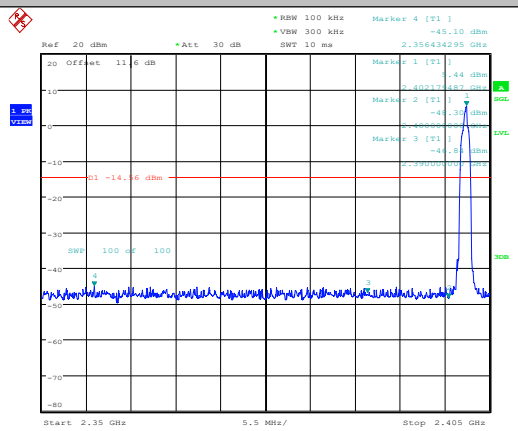

Date: 2.APR.2025 10:19:04

DH5-Ant1-Hop_2480-PASS



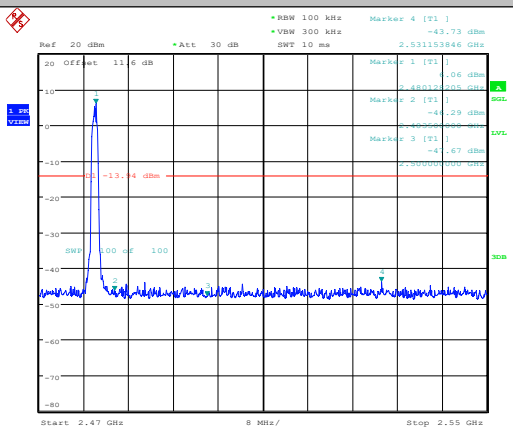

Date: 2.APR.2025 10:22:27

2DH5-Ant1-2402-PASS



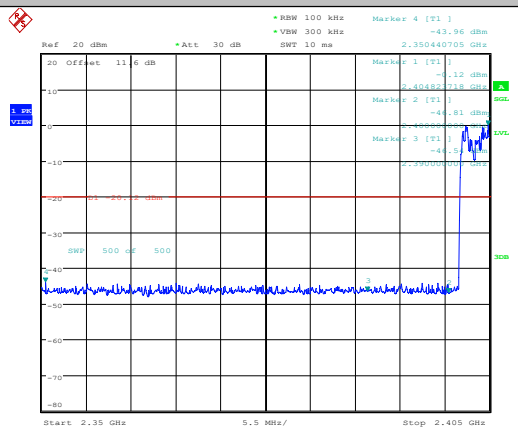

Date: 2.APR.2025 10:07:39

2DH5-Ant1-2480-PASS



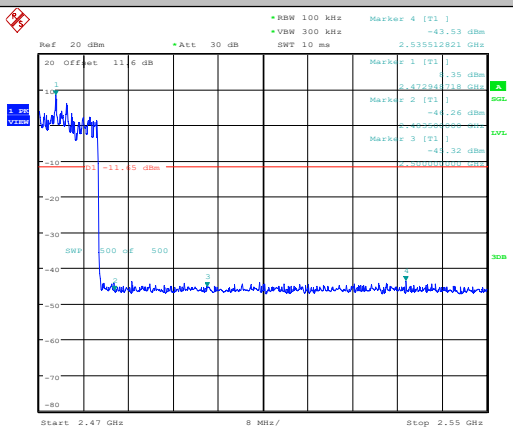

Date: 2.APR.2025 10:08:14

2DH5-Ant1-Hop_2402-PASS



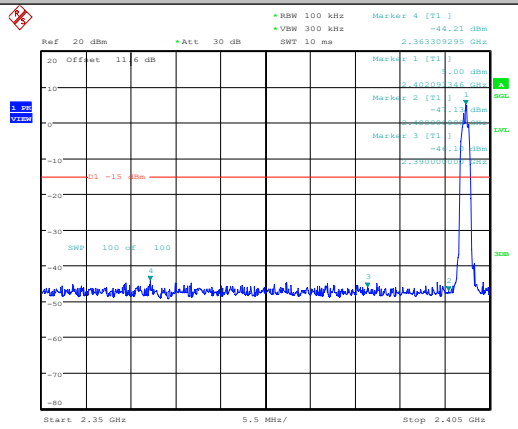

Date: 2.APR.2025 10:28:09

2DH5-Ant1-Hop_2480-PASS



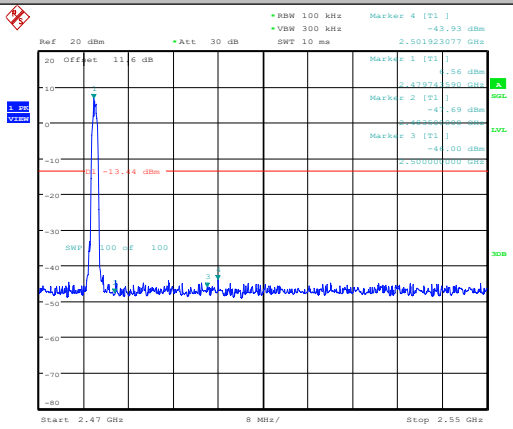

Date: 2.APR.2025 10:31:13

3DH5-Ant1-2402-PASS



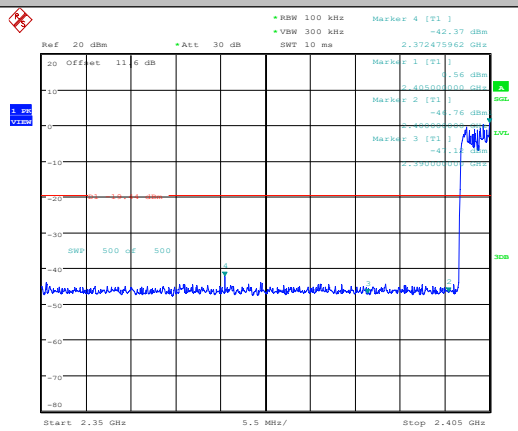

Date: 2.APR.2025 10:10:55

3DH5-Ant1-2480-PASS



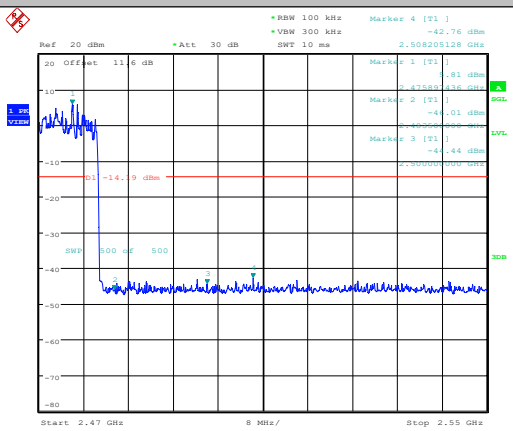

Date: 2.APR.2025 10:12:02

3DH5-Ant1-Hop_2402-PASS




Date: 2.APR.2025 10:33:00

3DH5-Ant1-Hop_2480-PASS




Date: 2.APR.2025 10:33:50

## 6.6. Time Of Occupancy (Dwell Time)

| | |
|---|---|
| **Specifications:** | FCC 47 Part 15.247(a), RSS-247 5.1 |
| **DUT Serial Number:** | 25B02W000005#S16 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | Pass |

### Limit Level Construction:

| Standard | Limit |
|---|---|
| FCC 47 Part 15.247(a) | <400ms |
| RSS-247 5.1 | <400ms |

### Measurement Uncertainty:

| | |
|---|---|
| Measurement Uncertainty | 2.44ms |

### Test procedures

The measurement is according to ANSI C63.10 clause 7.8.4

1. Connect the EUT through cable and divide with spectrum analyzer.
2. Enable the EUT transmit maximum power.
3. Set the spectrum analyzer as step 4 to step 8.
4. Span: Zero span, centered on a hopping channel.
5. RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
6. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
7. Detector function: Peak.
8. Trace: Clear-write, single sweep
9. Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

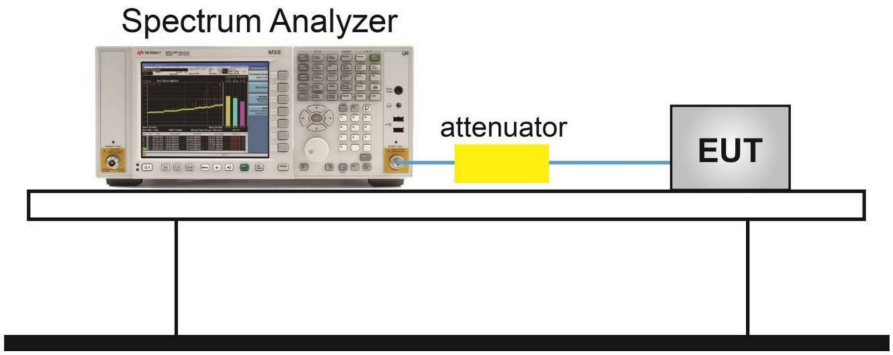
The average number of hops on the same channel within the regulatory observation period is calculated

from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is 3 / 0.5 × 10, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period. Where the device shares the same hopping algorithms (dwell time, channel selection) across multiple data rates or modulation schemes then the time of occupancy need only be measured for one of those modulation schemes or data rates. If the dwell time value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in dwell time.

Spectral plots of the channel occupancy shall be included in the report.

**Test Setup**



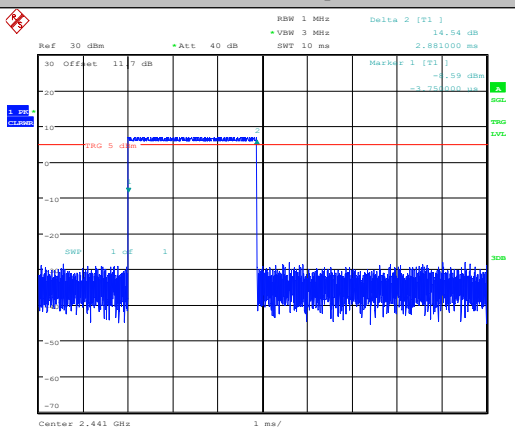
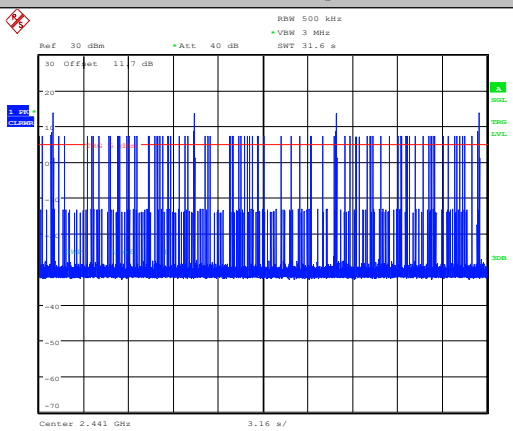
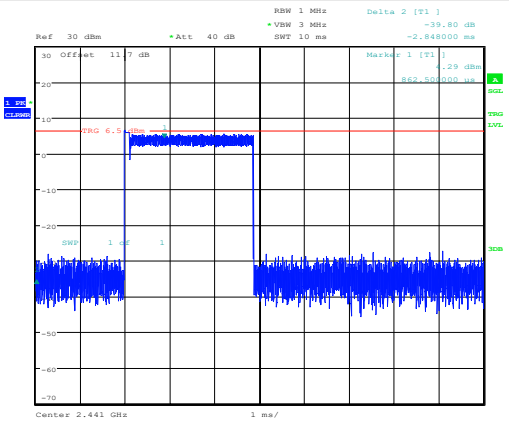
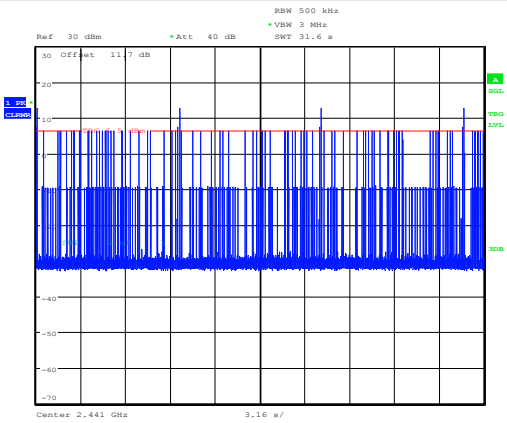
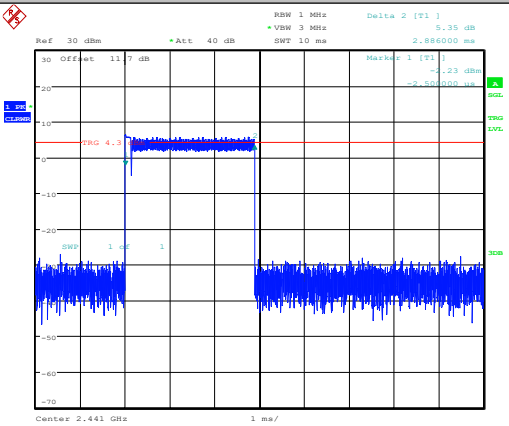
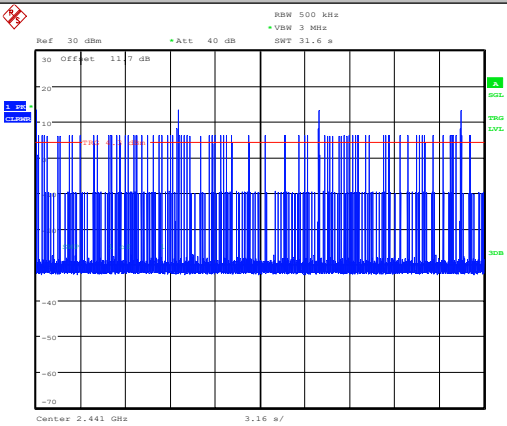

**Measurement Results:**

| TestMode | Antenna | Frequency[MHz] | BurstWidth [ms] | TotalHops [Num] | Result[s] | Limit[s] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | Hop | 2.881 | 100 | 0.288 | ≤0.4 | PASS |
| 2DH5 | Ant1 | Hop | 2.848 | 93 | 0.265 | ≤0.4 | PASS |
| 3DH5 | Ant1 | Hop | 2.886 | 101 | 0.291 | ≤0.4 | PASS |

Note:

1. Result= BurstWidth* TotalHops.
2. All the test data for each data were verified, but only the worst case was reported.

Test Graphs

| DH5-Ant1-Hop-PASS | DH5-Ant1-Hop-PASS |
|---|---|
|  |  |
| Date: 27.MAR.2025 09:56:40 | Date: 27.MAR.2025 09:57:16 |
| **2DH5-Ant1-Hop-PASS** | **2DH5-Ant1-Hop-PASS** |
|  |  |
| Date: 1.APR.2025 11:27:04 | Date: 1.APR.2025 11:27:41 |
| **3DH5-Ant1-Hop-PASS** | **3DH5-Ant1-Hop-PASS** |
|  |  |
| Date: 27.MAR.2025 10:03:31 | Date: 27.MAR.2025 10:04:08 |

## 6.7. Carrier Frequency Separation

| | |
|---|---|
| **Specifications:** | FCC 47 Part 15.247(a), RSS-247 5.1 |
| **DUT Serial Number:** | 25B02W000005#S16 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | Pass |

### Limit Level Construction:

| Standard | Limit |
|---|---|
| FCC 47 Part 15.247(a) | GFSK: Over 25kHz or 20dB bandwidth<br>π/4 DQPSK; 8DPSK: Over 25kHz or (2/3)*20dB bandwidth |
| RSS-247 5.1 | GFSK: Over 25kHz or 20dB bandwidth<br>π/4 DQPSK; 8DPSK: Over 25kHz or (2/3)*20dB bandwidth |

### Measurement Uncertainty:

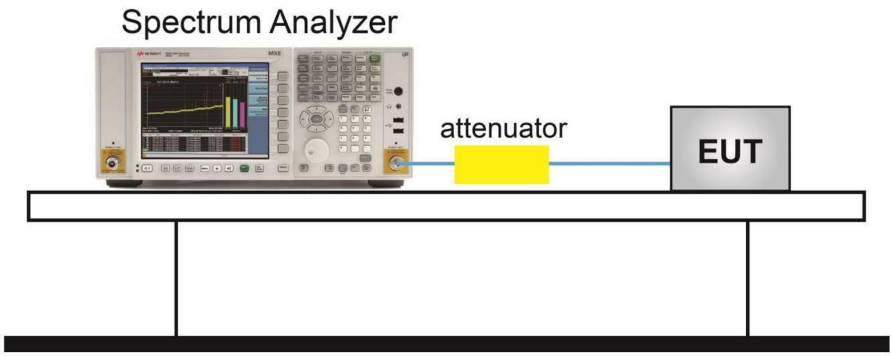
| | |
|---|---|
| Measurement Uncertainty | 0.02kHz |

### Test procedures:

The measurement is according to ANSI C63.10 clause 7.8.2.

1. Connect the EUT through cable and divide and spectrum analyzer.
2. Enable the EUT transmit in hopping mode.
3. Span: Wide enough to capture the peaks of two adjacent channels.
4. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
5. Video (or average) bandwidth (VBW) ≥ RBW.
6. Sweep: Auto.
7. Detector function: Peak.
8. Trace: Max hold.
9. Allow the trace to stabilize.

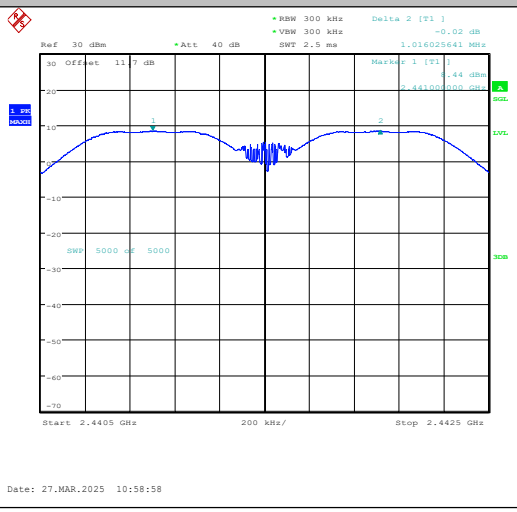
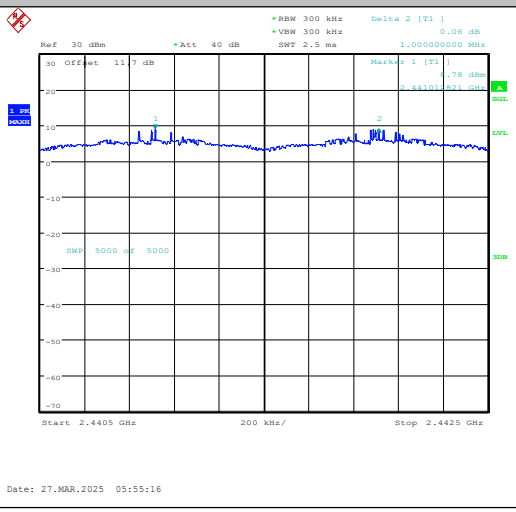
**Test Setup:**

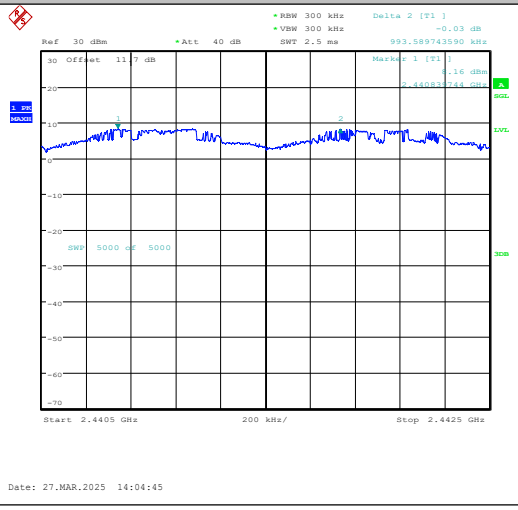



**Measurement Results:**

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|
| DH5 | Ant1 | Hop | 1.016 | ≥0.870 | PASS |
| 2DH5 | Ant1 | Hop | 1.000 | ≥0.853 | PASS |
| 3DH5 | Ant1 | Hop | 0.994 | ≥0.860 | PASS |

Note:

| DH5-Ant1-Hop-PASS | 2DH5-Ant1-Hop-PASS |
|---|---|
|  |  |

| 3DH5-Ant1-Hop-PASS | / |
|---|---|
|  | / |

## 6.8. Number Of Hopping Channels

| | |
|---|---|
| **Specifications:** | FCC 47 Part 15.247(a), RSS-247 5.1 |
| **DUT Serial Number:** | 25B02W000005#S16 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | Pass |

### Limit Level Construction:

| Standard | Limit |
|---|---|
| FCC 47 Part 15.247(a) | At least 15 non-overlapping channels |
| RSS-247 5.1 | At least 15 non-overlapping channels |

### Measurement Uncertainty:

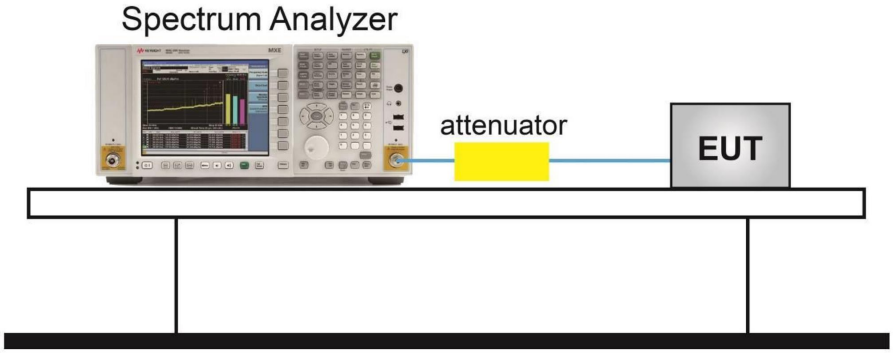
| Measurement Uncertainty | -- |
|---|---|

### Test procedure:

The measurement is according to ANSI C63.10 clause 7.8.3.

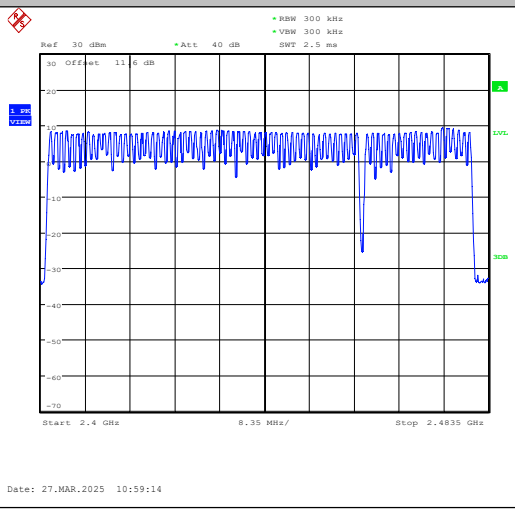
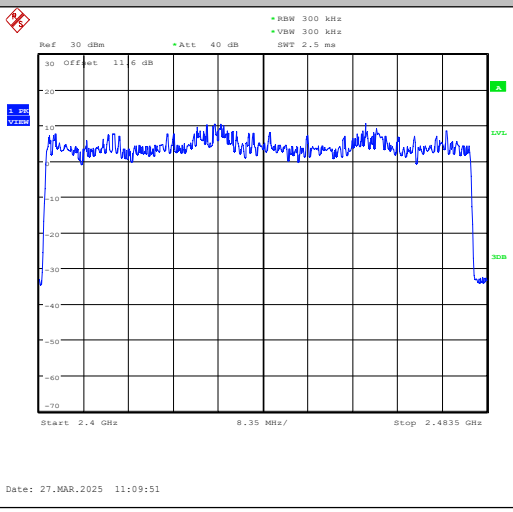
1. Connect the EUT through cable and divide with spectrum analyzer.
2. Enable the EUT transmit in hopping mode.
3. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
4. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
5. VBW ≥ RBW.
6. Sweep: Auto.
7. Detector function: Peak.
8. Trace: Max hold.
9. Allow the trace to stabilize.
10. Record the test results.

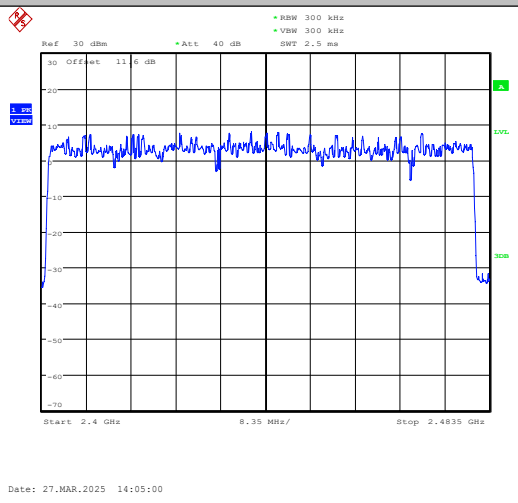
**Test Setup:**




**Measurement Results:**

| 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 |

| DH5-Ant1-Hop-PASS | 2DH5-Ant1-Hop-PASS |
|---|---|
|  |  |

| 3DH5-Ant1-Hop-PASS | / |
|---|---|
|  | / |

## 6.9. Transmitter Spurious Emission-Conducted

| | |
|---|---|
| **Specifications:** | FCC 47 Part 15.247(d), RSS-247 5.5 |
| **DUT Serial Number:** | 25B02W000005#S16 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | Pass |

### Limit Level Construction:

| Standard | Limit |
|---|---|
| FCC 47 Part 15.247(d) | 20dB below peak output power in 100kHz |
| RSS-247 5.5 | 20dB below peak output power in 100kHz bandwidth |

### Measurement Uncertainty:

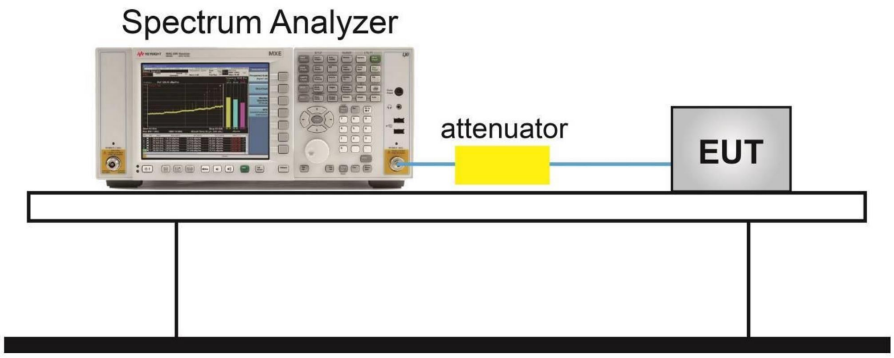
| | |
|---|---|
| Measurement Uncertainty | 0.72dB |

### Test procedures:

The measurement is according to ANSI C63.10 clause 7.8.8.

1. Connect the EUT to spectrum analyzer.
2. Set RBW=100kHz, VBW=300kHz.
3. Detector =peak, sweep time=auto couple, trace mode=max hold

### Test Setup:

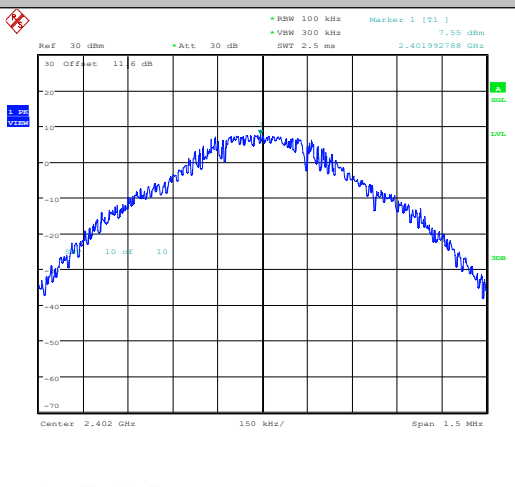


**Measurement Results:**

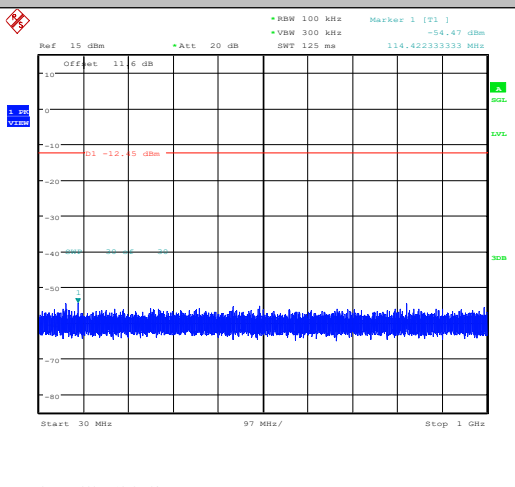
| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | 2402 | 0~Reference | 7.55 | 7.55 | --- | PASS |
| DH5 | Ant1 | 2402 | 30~1000 | 7.55 | -54.47 | ≤-12.45 | PASS |
| DH5 | Ant1 | 2402 | 1000~26500 | 7.55 | -52.39 | ≤-12.45 | PASS |
| DH5 | Ant1 | 2441 | 0~Reference | 7.79 | 7.79 | --- | PASS |
| DH5 | Ant1 | 2441 | 30~1000 | 7.79 | -54.04 | ≤-12.21 | PASS |
| DH5 | Ant1 | 2441 | 1000~26500 | 7.79 | -52.00 | ≤-12.21 | PASS |
| DH5 | Ant1 | 2480 | 0~Reference | 6.40 | 6.40 | --- | PASS |
| DH5 | Ant1 | 2480 | 30~1000 | 6.40 | -55.23 | ≤-13.60 | PASS |
| DH5 | Ant1 | 2480 | 1000~26500 | 6.40 | -51.53 | ≤-13.60 | PASS |
| 2DH5 | Ant1 | 2402 | 0~Reference | 6.72 | 6.72 | --- | PASS |
| 2DH5 | Ant1 | 2402 | 30~1000 | 6.72 | -54.99 | ≤-13.28 | PASS |
| 2DH5 | Ant1 | 2402 | 1000~26500 | 6.72 | -51.77 | ≤-13.28 | PASS |
| 2DH5 | Ant1 | 2441 | 0~Reference | 2.20 | 2.20 | --- | PASS |
| 2DH5 | Ant1 | 2441 | 30~1000 | 2.20 | -55.43 | ≤-17.80 | PASS |
| 2DH5 | Ant1 | 2441 | 1000~26500 | 2.20 | -52.43 | ≤-17.80 | PASS |
| 2DH5 | Ant1 | 2480 | 0~Reference | 6.48 | 6.48 | --- | PASS |
| 2DH5 | Ant1 | 2480 | 30~1000 | 6.48 | -55.35 | ≤-13.52 | PASS |
| 2DH5 | Ant1 | 2480 | 1000~26500 | 6.48 | -52.12 | ≤-13.52 | PASS |
| 3DH5 | Ant1 | 2402 | 0~Reference | 6.80 | 6.80 | --- | PASS |
| 3DH5 | Ant1 | 2402 | 30~1000 | 6.80 | -54.89 | ≤-13.20 | PASS |
| 3DH5 | Ant1 | 2402 | 1000~26500 | 6.80 | -51.68 | ≤-13.20 | PASS |
| 3DH5 | Ant1 | 2441 | 0~Reference | 7.13 | 7.13 | --- | PASS |
| 3DH5 | Ant1 | 2441 | 30~1000 | 7.13 | -54.71 | ≤-12.87 | PASS |
| 3DH5 | Ant1 | 2441 | 1000~26500 | 7.13 | -52.11 | ≤-12.87 | PASS |
| 3DH5 | Ant1 | 2480 | 0~Reference | 4.90 | 4.90 | --- | PASS |
| 3DH5 | Ant1 | 2480 | 30~1000 | 4.90 | -55.43 | ≤-15.10 | PASS |
| 3DH5 | Ant1 | 2480 | 1000~26500 | 4.90 | -52.42 | ≤-15.10 | PASS |

Test Graphs

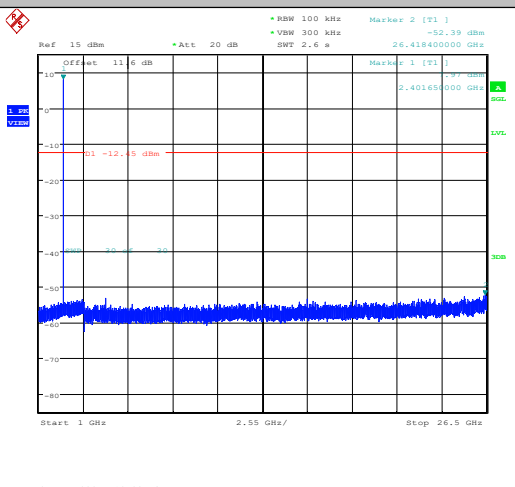
DH5-Ant1-2402-0~Reference-PASS



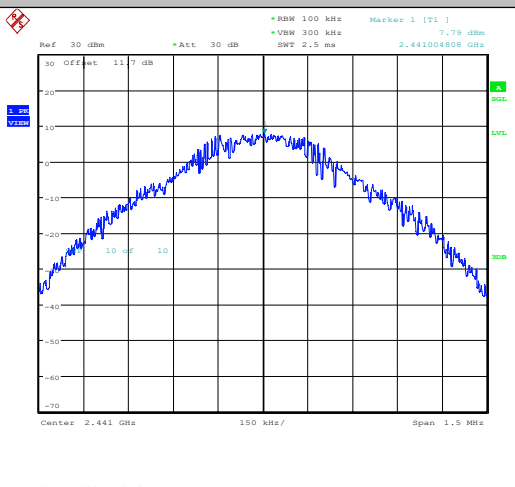

DH5-Ant1-2402-30~1000-PASS



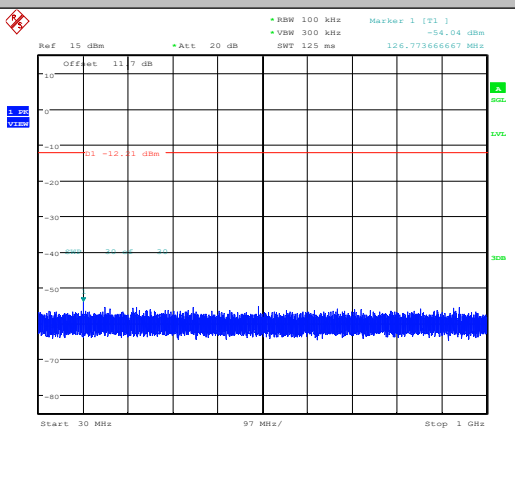

DH5-Ant1-2402-1000~26500-PASS



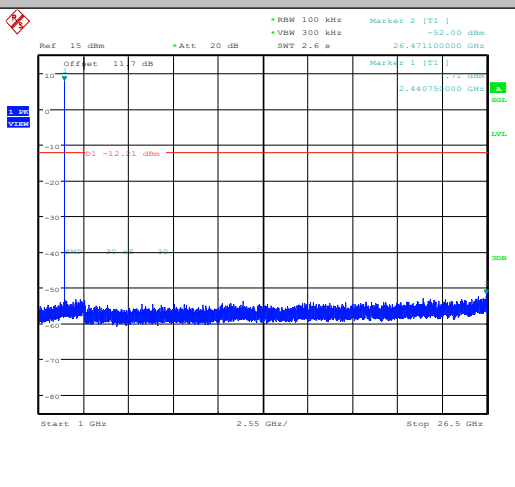

DH5-Ant1-2441-0~Reference-PASS



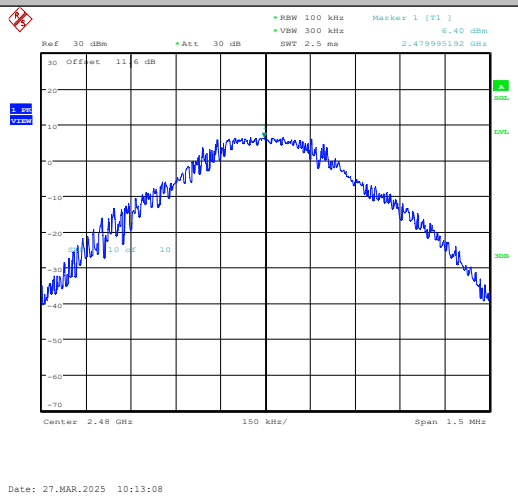

DH5-Ant1-2441-30~1000-PASS



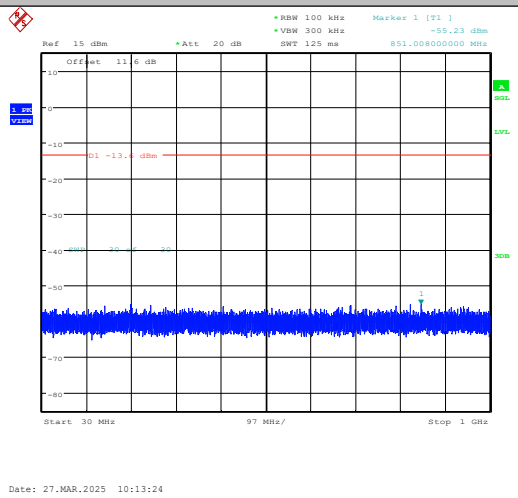

DH5-Ant1-2441-1000~26500-PASS



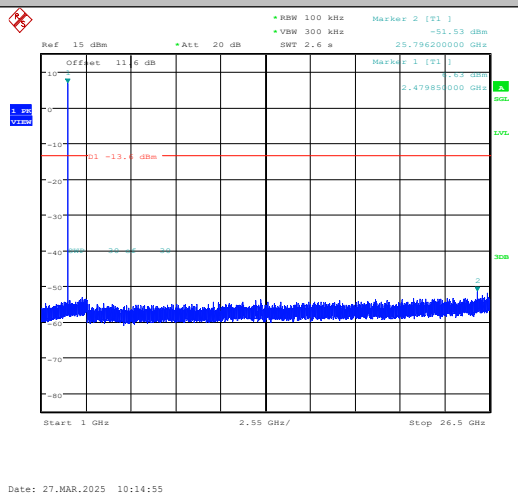
DH5-Ant1-2480-0~Reference-PASS



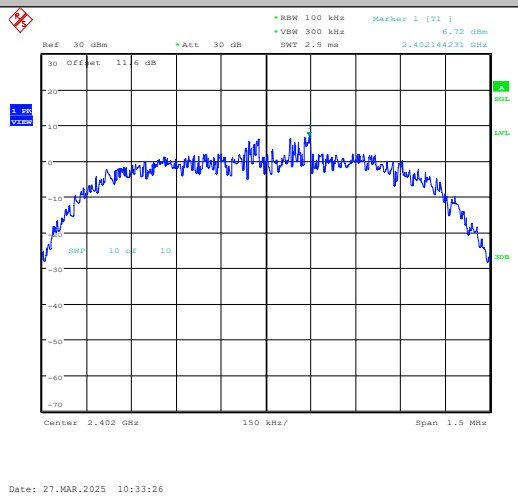

DH5-Ant1-2480-30~1000-PASS



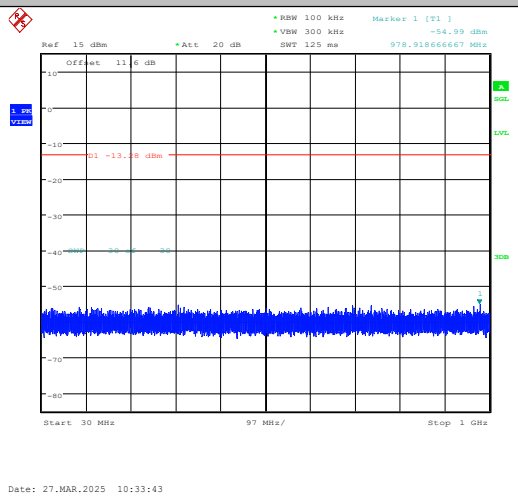

DH5-Ant1-2480-1000~26500-PASS



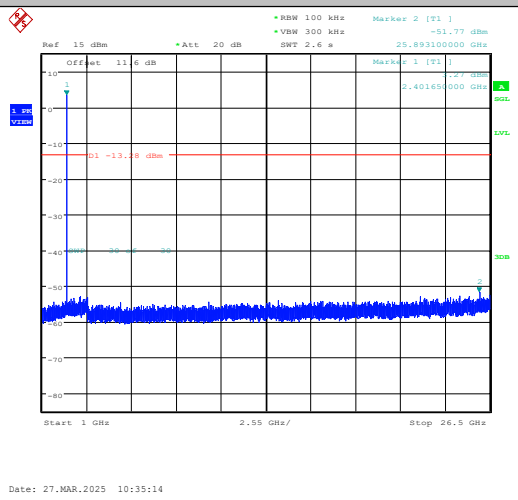

2DH5-Ant1-2402-0~Reference-PASS



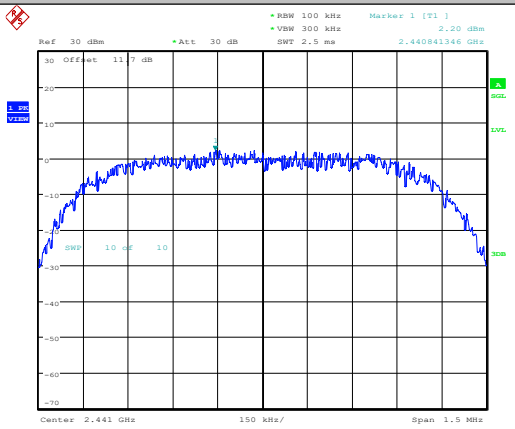

2DH5-Ant1-2402-30~1000-PASS




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

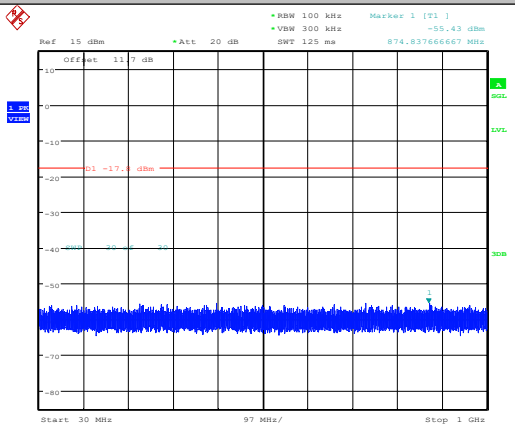


2DH5-Ant1-2441-0~Reference-PASS



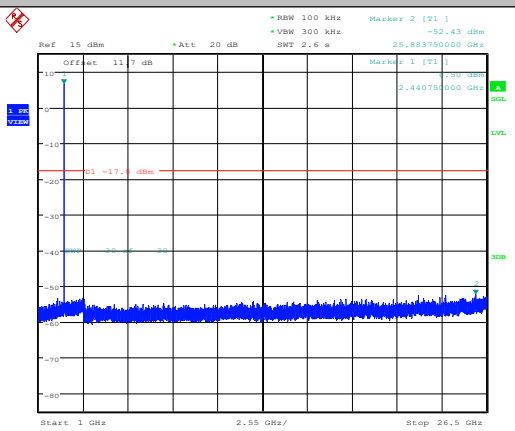

Date: 27.MAR.2025 10:36:33

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



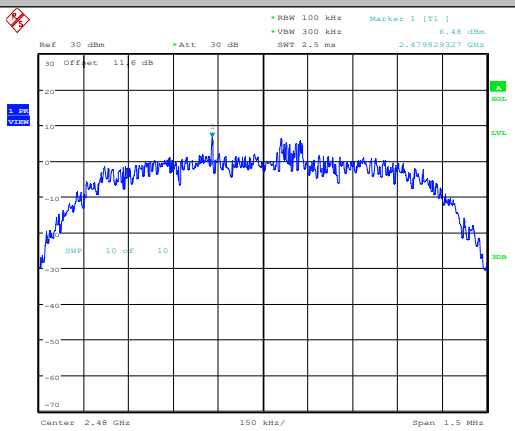

Date: 27.MAR.2025 10:36:50

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



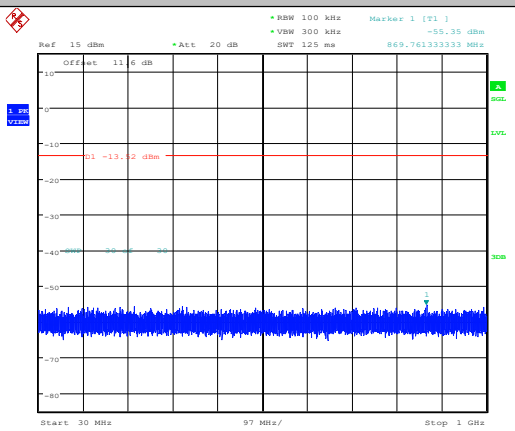

Date: 27.MAR.2025 10:38:21

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



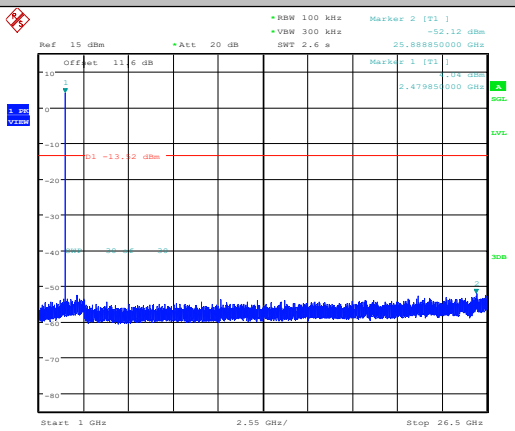

Date: 27.MAR.2025 10:39:51

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



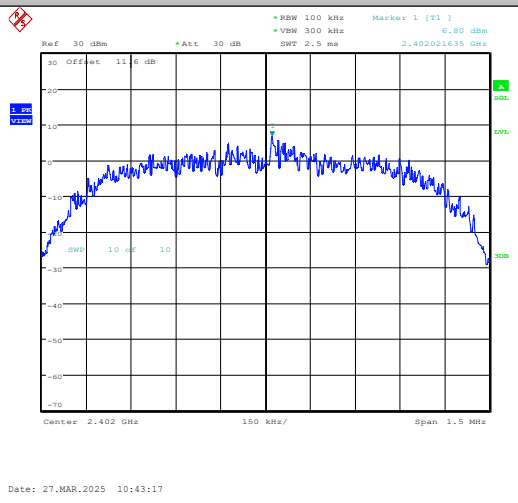

Date: 27.MAR.2025 10:40:07

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

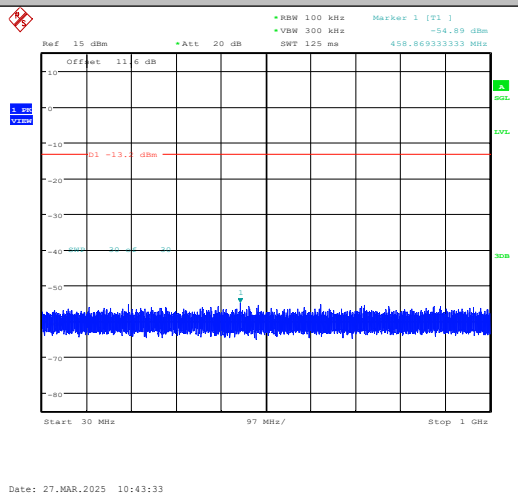



Date: 27.MAR.2025 10:41:38

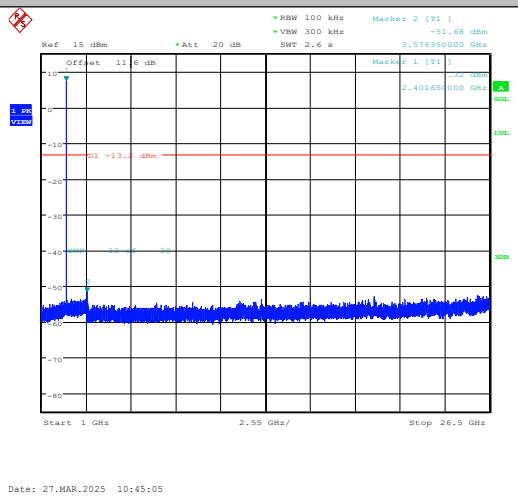
3DH5-Ant1-2402-0~Reference-PASS



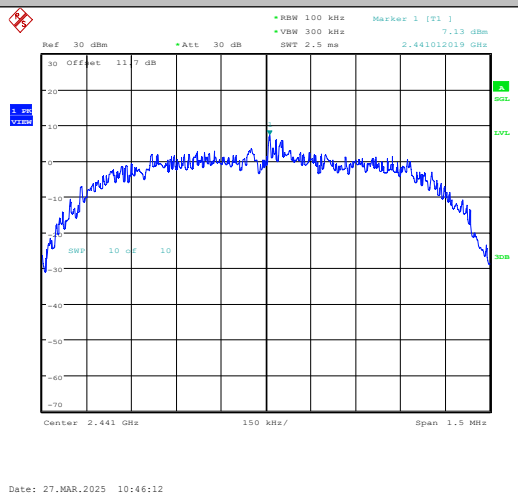

3DH5-Ant1-2402-30~1000-PASS




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




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

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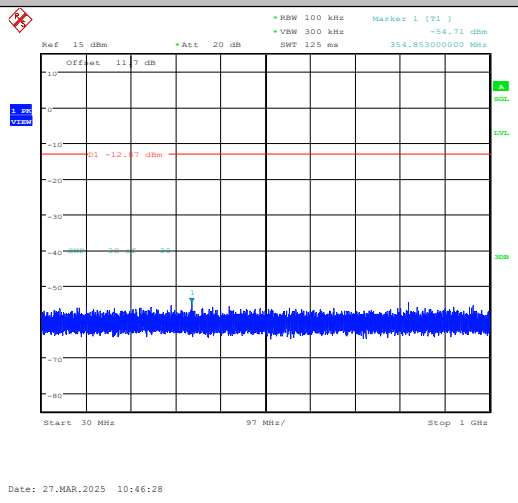


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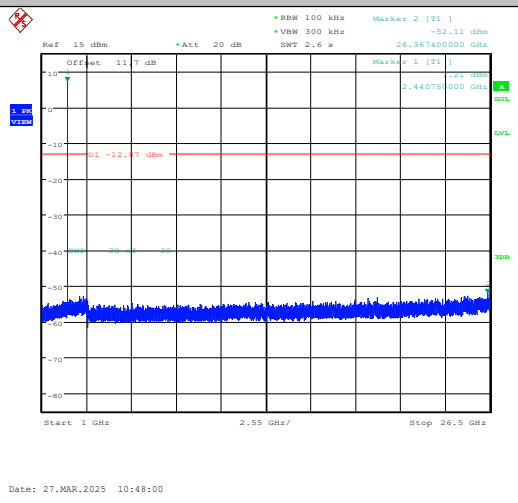

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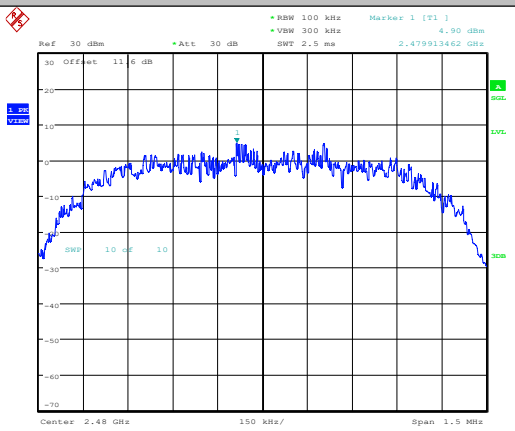
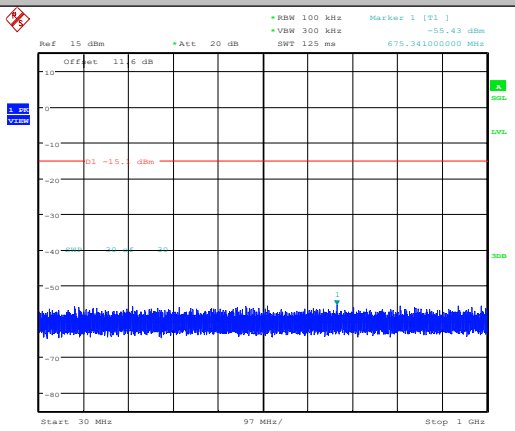
|   Date: 27.MAR.2025 10:52:19 |   Date: 27.MAR.2025 10:52:36 |
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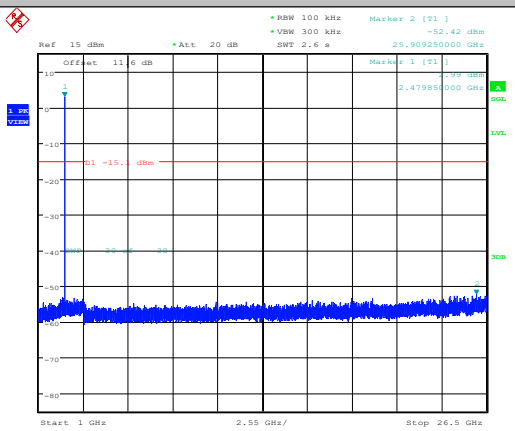
|   Date: 27.MAR.2025 10:54:07 | / |

## 6.10. Transmitter Spurious Emission-Radiated

| | |
|---|---|
| **Specifications:** | FCC 47 Part 15.247(d),15.205(a),15.209(a), RSS-GEN 8.9, 8.10 |
| **DUT Serial Number:** | 25B02W000005#S07 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | Pass |

### Limit Level Construction:

Limit in restricted band

| Frequency of emission (MHz) | Field strength (mV/m) | Field strength (dBuV/m) |
|---|---|---|
| 0.009~0.49 | 2400/F (kHz) | 129-94 |
| 0.49~1.705 | 24000/F (kHz) | 74-63 |
| 1.705~30 | 30 | 70 |
| 30~88 | 100 | 40 |
| 88~216 | 150 | 43.5 |
| 216~960 | 200 | 46 |
| Above 960 | 500 | 54 |

### Measurement Uncertainty:

| | |
|---|---|
| Measurement Uncertainty | 30MHz-150MHz 3.38 dB (k=2)<br>150MHz-1000MHz 4.09dB (k=2)<br>1000MHz-6000MHz 4.84 dB (k=2)<br>6000MHz-18000MHz 4.52 dB (k=2)<br>18000MHz-26500MHz 6.19 dB (k=2)<br>26500MHz-40000MHz 6.03 dB (k=2) |

**Test procedures:**

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height varied from 1m to 4m and the EUT azimuth were varied from 0° to 360° in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

**Test Settings – Below 1GHz (Quasi-Peak Field Strength Measurements)**

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 100 kHz.
3. Set the VBW = 300 kHz.
4. Detector = quasi-peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Trace was allowed to stabilize.

**Test Settings – Above 1GHz (Peak Field Strength Measurements)**

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz.
4. Detector = peak
5. Trace mode = max hold
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

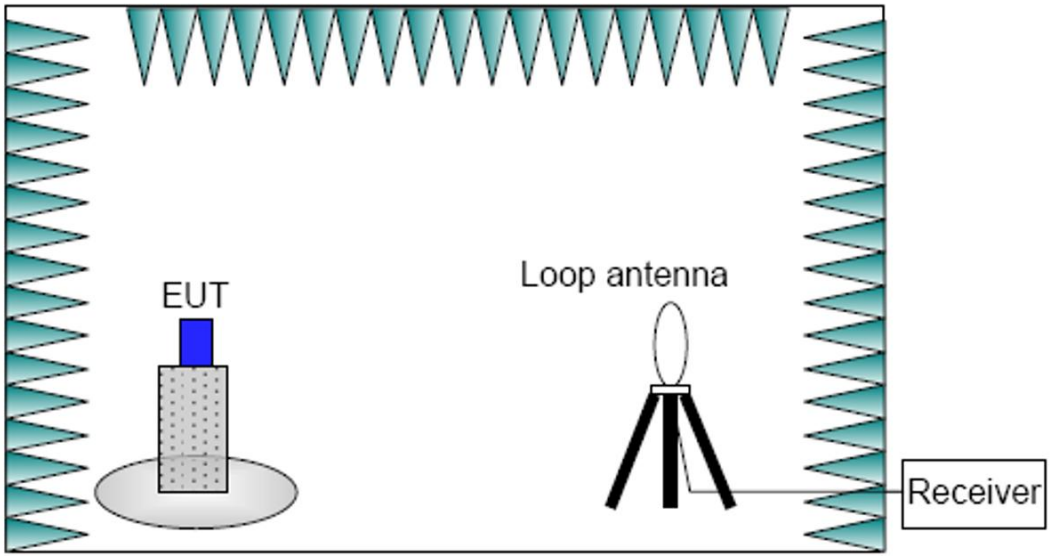
**Test Settings – Above 1GHz (Average Field Strength Measurements)**

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz.
4. Detector = power average (RMS).
5. Number of measurement points = 1001 (Number of points must be ≥ 2 × span\\RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

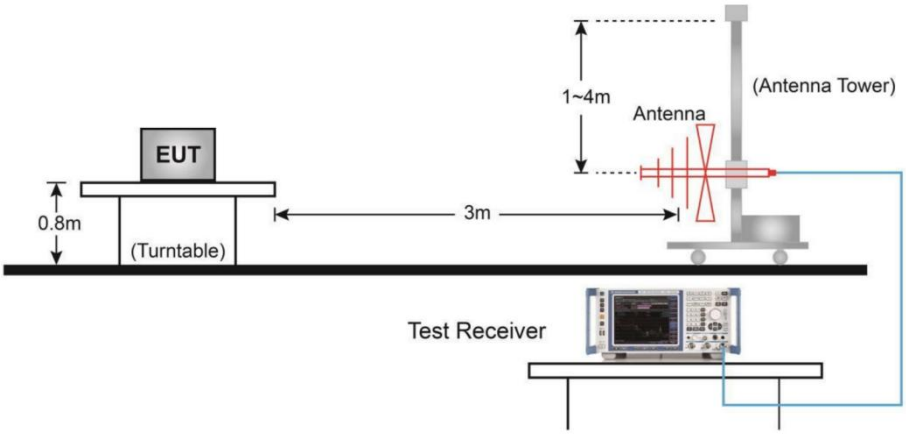
| Frequency of emission | RBW/VBW | Sweep Time (s) |
|---|---|---|
| 0.009~30 | 9KHz/30KHz | Auto |
| 30~1000 | 100KHz/300KHz | 5 |
| 1000~4000 | 1MHz/3MHz | 15 |
| 4000~18000 | 1MHz/3MHz | 40 |
| 18000~26500 | 1MHz/3MHz | 20 |

**Test Setup:**

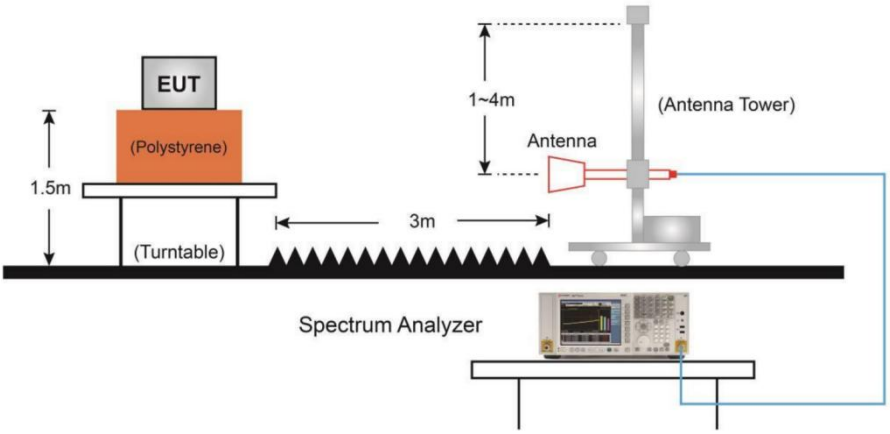
Below 30MHz Test Setup




Below 1GHz Test Setup



Above 1GHz Test Setup




## Measurement Results:

A "reference path loss" is established and ARpi is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

ARpi = Cable loss + Antenna Factor-Preamplifier gain

Result=PMea + Arpi

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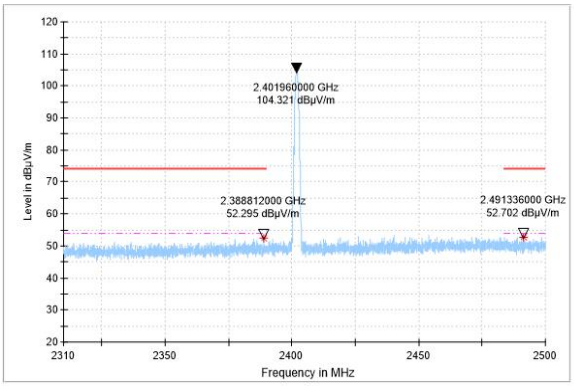
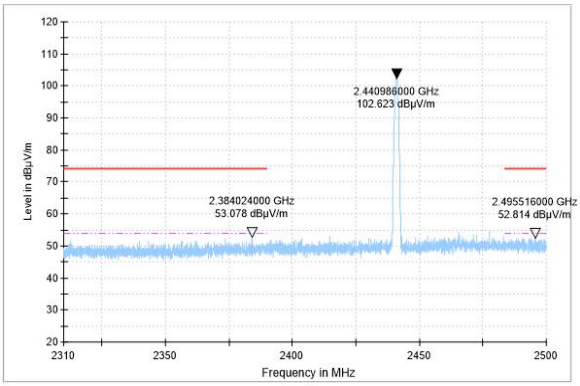
|  |  |

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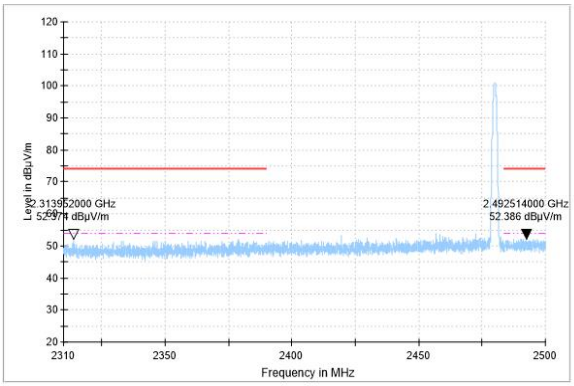


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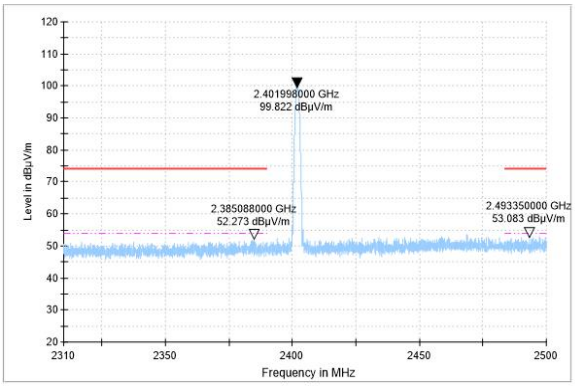


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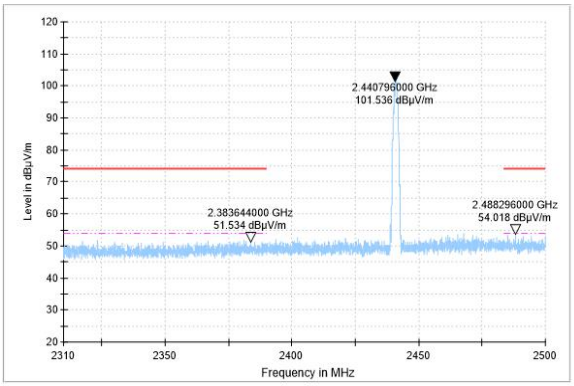


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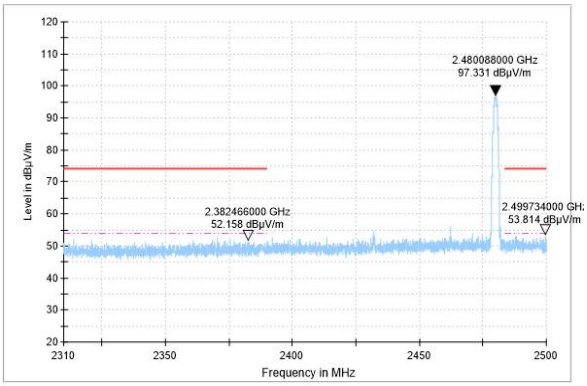


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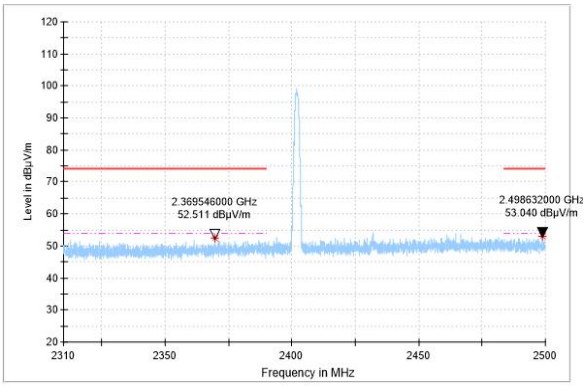


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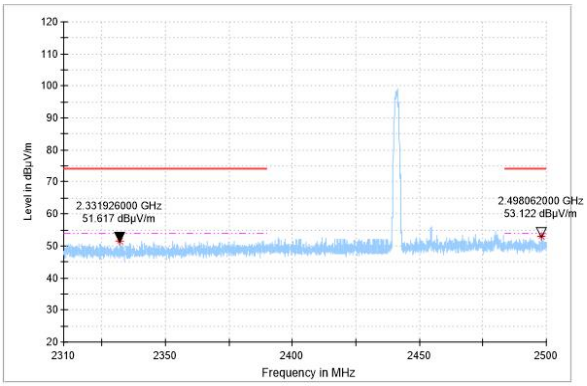

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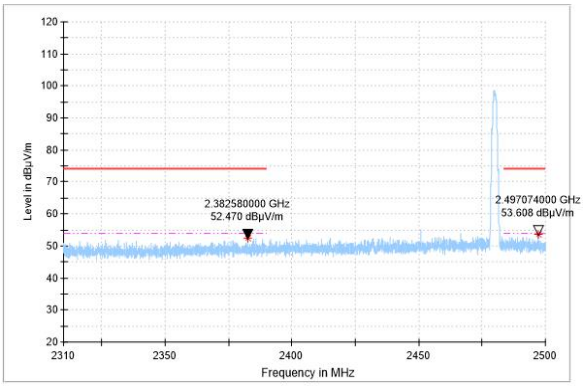
|  | / |

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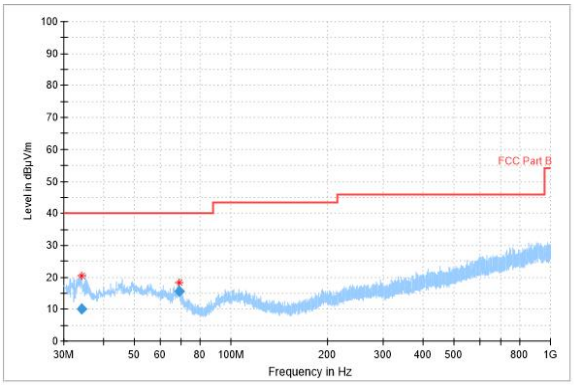
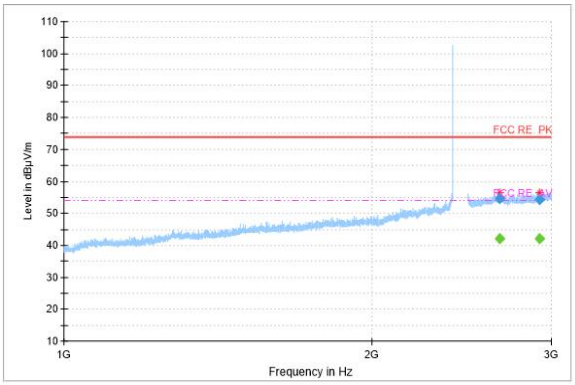
|  |  |
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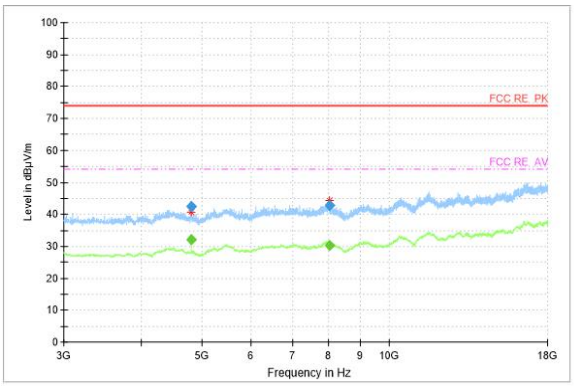
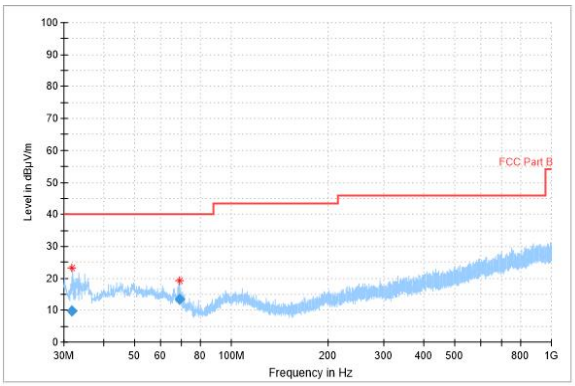
|  |  |

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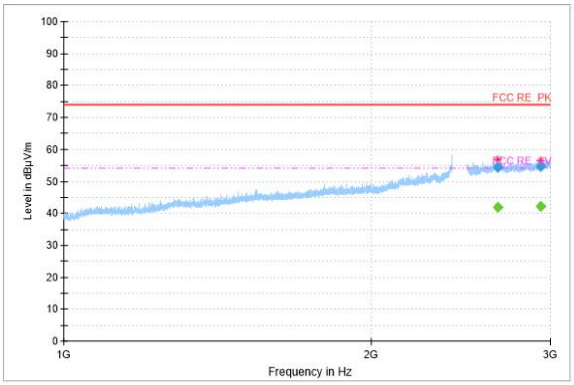
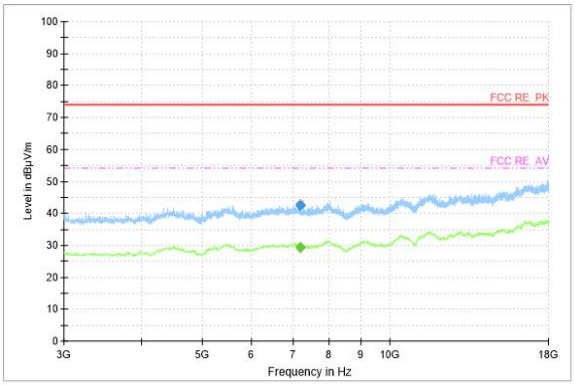
|   |   |
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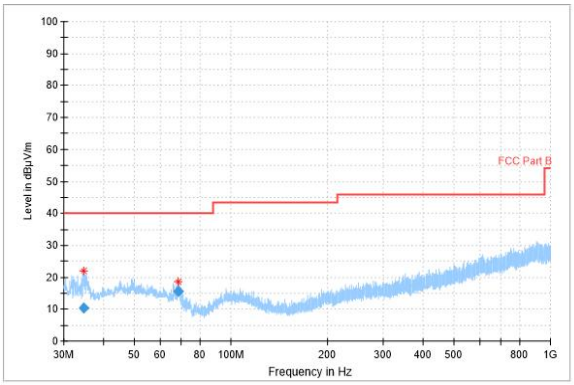
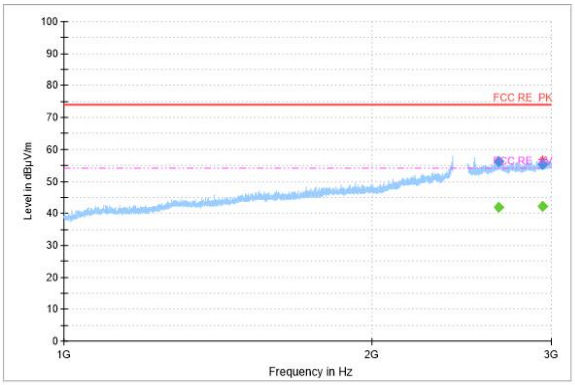
|   |   |
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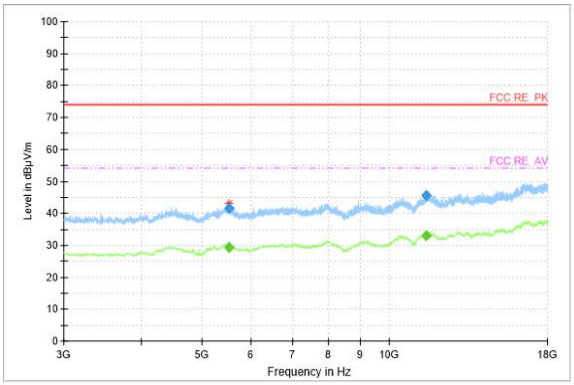
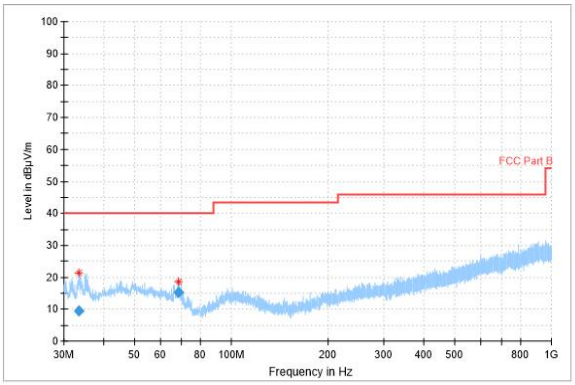
|   |   |

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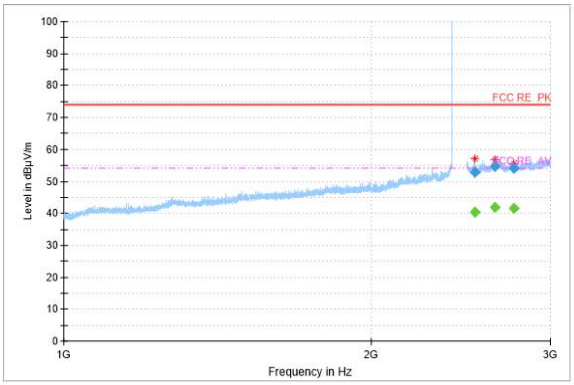
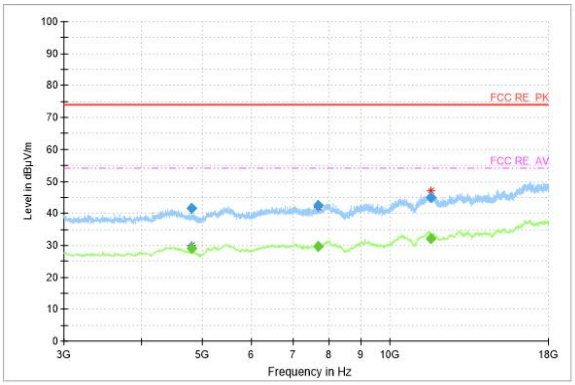
|   |   |
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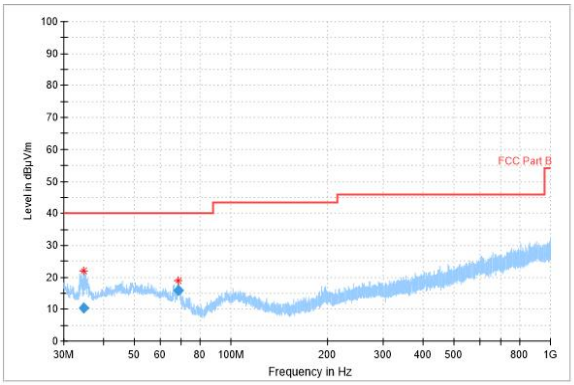
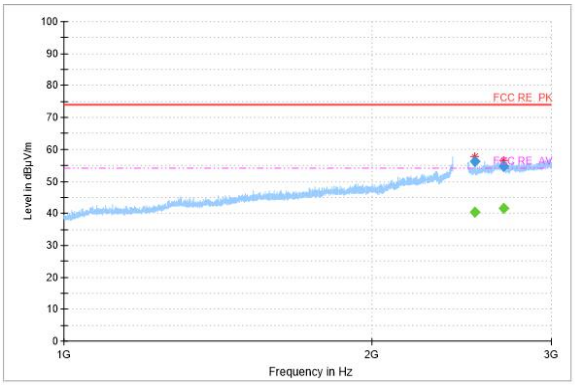
|   |   |
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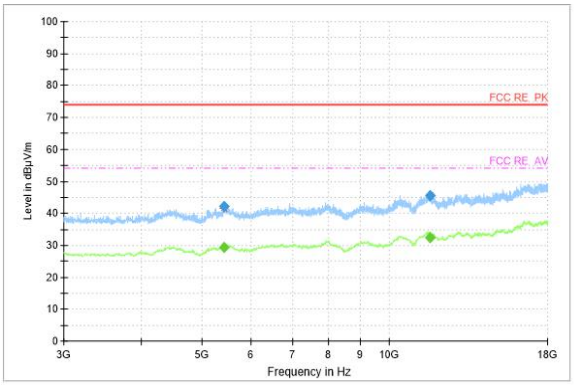
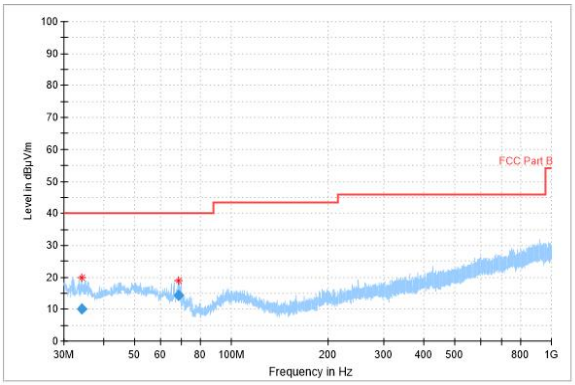
|   |   |

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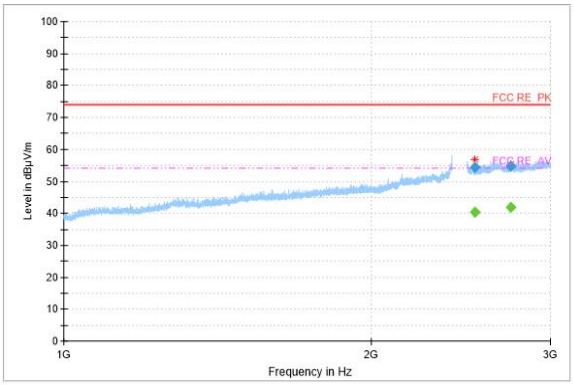
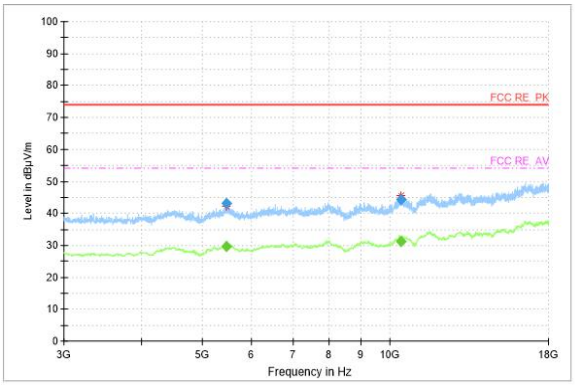
|   |   |
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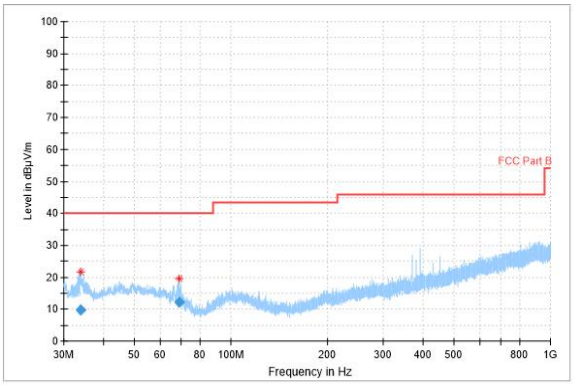
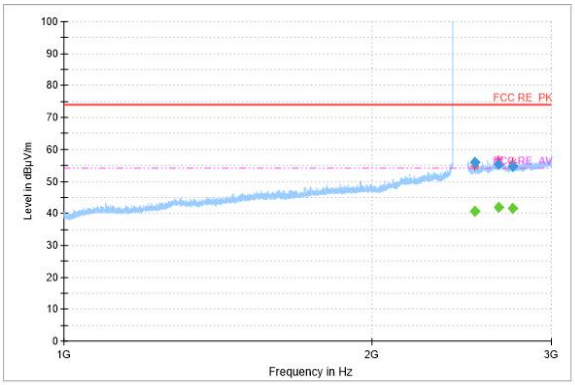
|   |   |
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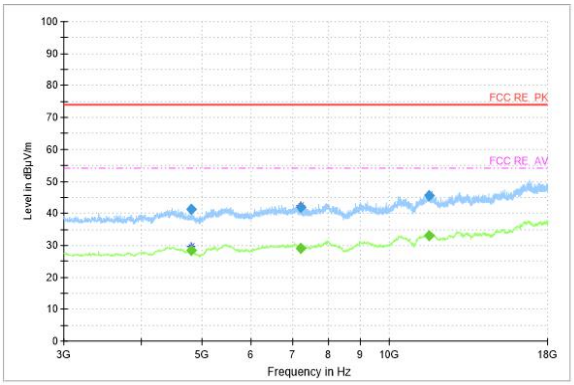
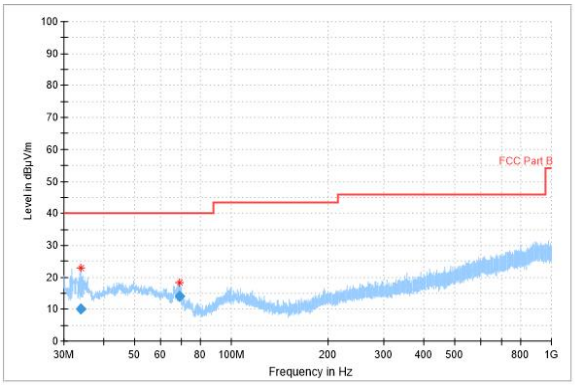
|   |   |

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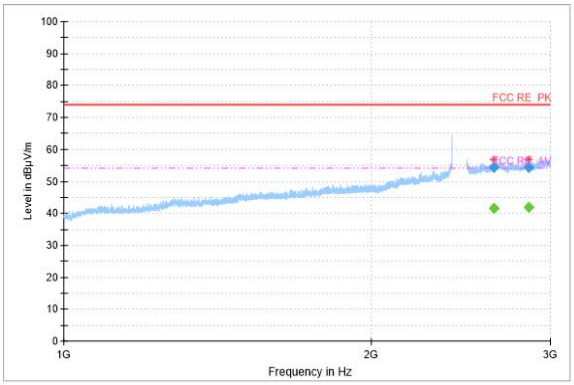
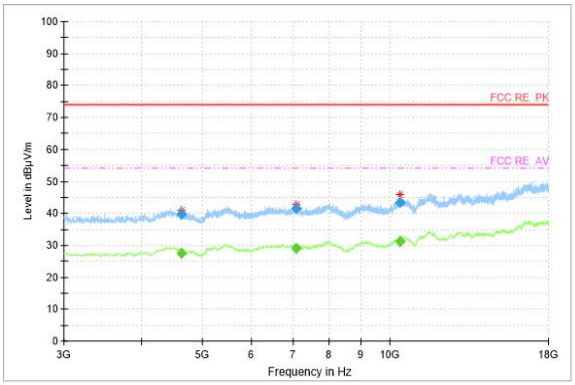
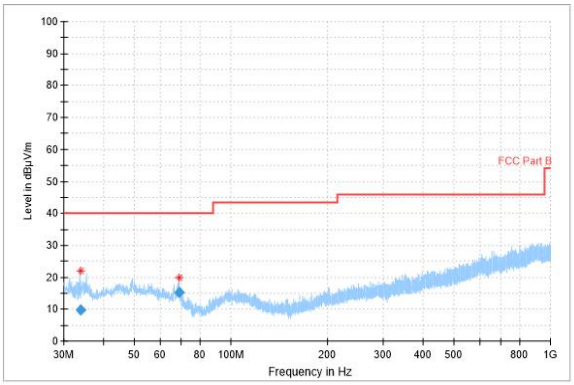
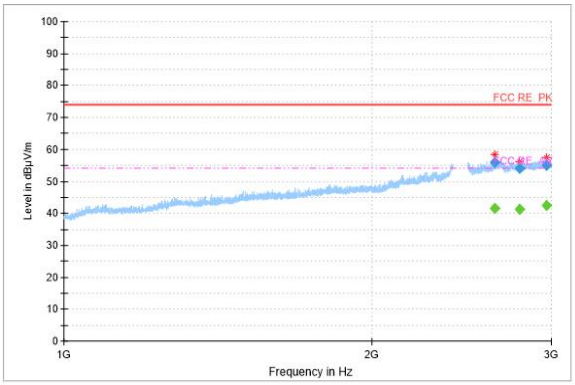
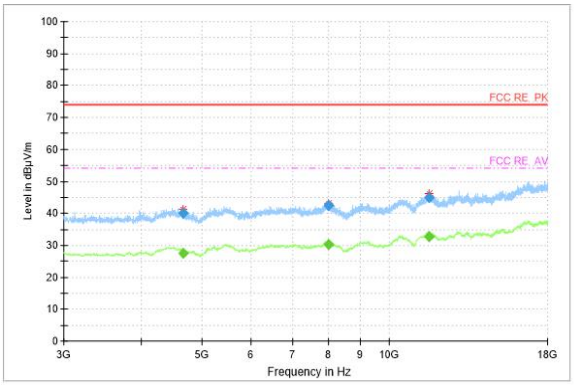
|  |  |
| RSE-3DH5-CH78-30MHz-1GHz | RSE-3DH5-CH78-1GHz-3GHz |
|  |  |
| RSE-3DH5-CH78-3GHz-18GHz | / |
|  | / |

Note:

1. The out-of- limit signal in the picture is the main frequency signal.
2. Only data in worst mode is provided.
3. Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the Emissions in the frequency band 18GHz-26.5GHz is more than 20dB below the limit are not report.
4. The test data below 30MHz is more than 20dB lower than the limit value, so it is not provided in the report.
5. Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data

diagram.

**RSE-DH5-CH0-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 34.0 | 10.23 | -15 | 25.23 | 29.77 | 40.00 | H |
| 69.0 | 15.47 | -15 | 30.47 | 24.54 | 40.00 | H |

**RSE-DH5-CH0-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2667.2 | 54.63 | 18 | 36.63 | 19.37 | 74.00 | H |
| 2917.7 | 54.3 | 18 | 36.3 | 19.70 | 74.00 | H |

**RSE-DH5-CH0-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2667.2 | 42.03 | 18 | 24.03 | 11.97 | 54.00 | H |
| 2917.7 | 41.98 | 18 | 23.98 | 12.02 | 54.00 | H |

**RSE-DH5-CH0-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4803.8 | 42.52 | -4 | 46.52 | 31.48 | 74.00 | V |
| 8022.6 | 42.91 | -1 | 43.91 | 31.09 | 74.00 | H |

**RSE-DH5-CH0-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4803.8 | 32.01 | -4 | 36.01 | 21.99 | 54.00 | V |
| 8022.6 | 30.24 | -1 | 31.24 | 23.76 | 54.00 | H |

**RSE-DH5-CH39-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 31.8 | 9.73 | -15 | 24.73 | 30.27 | 40.00 | H |
| 69.1 | 13.34 | -15 | 28.34 | 26.66 | 40.00 | H |

**RSE-DH5-CH39-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2665.3 | 54.57 | 18 | 36.57 | 19.43 | 74.00 | H |
| 2936.6 | 54.82 | 18 | 36.82 | 19.18 | 74.00 | H |

**RSE-DH5-CH39-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2665.3 | 41.99 | 18 | 23.99 | 12.01 | 54.00 | H |
| 2936.6 | 42.13 | 18 | 24.13 | 11.87 | 54.00 | H |

**RSE-DH5-CH39-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 7191.1 | 42.39 | -2 | 44.39 | 31.61 | 74.00 | H |

**RSE-DH5-CH39-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 7191.1 | 29.25 | -2 | 31.25 | 24.75 | 54.00 | H |

**RSE-DH5-CH78-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 34.5 | 10.41 | -15 | 25.41 | 29.59 | 40.00 | H |
| 68.5 | 15.57 | -15 | 30.57 | 24.43 | 40.00 | H |

**RSE-DH5-CH78-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2664.9 | 56.19 | 18 | 38.19 | 17.81 | 74.00 | V |
| 2940.6 | 55.32 | 18 | 37.32 | 18.68 | 74.00 | H |

**RSE-DH5-CH78-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2664.9 | 41.98 | 18 | 23.98 | 12.02 | 54.00 | V |
| 2940.6 | 42.34 | 18 | 24.34 | 11.66 | 54.00 | H |

**RSE-DH5-CH78-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 5541.1 | 41.47 | -3 | 44.47 | 32.53 | 74.00 | H |
| 11491.0 | 45.62 | 3 | 42.62 | 28.38 | 74.00 | H |

**RSE-DH5-CH78-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 5541.1 | 29.27 | -3 | 32.27 | 24.73 | 54.00 | H |
| 11491.0 | 32.92 | 3 | 29.92 | 21.08 | 54.00 | H |

**RSE-2DH5-CH0-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 33.4 | 9.42 | -15 | 24.42 | 30.58 | 40.00 | H |
| 68.2 | 15.17 | -15 | 30.17 | 24.83 | 40.00 | H |

**RSE-2DH5-CH0-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2529.2 | 53.03 | 16 | 37.03 | 20.97 | 74.00 | V |
| 2647.0 | 54.69 | 17 | 37.69 | 19.31 | 74.00 | V |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2758.3 | 54.16 | 17 | 37.16 | 19.84 | 74.00 | H |

**RSE-2DH5-CH0-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2529.2 | 40.41 | 16 | 24.41 | 13.59 | 54.00 | V |
| 2647.0 | 41.76 | 17 | 24.76 | 12.24 | 54.00 | V |
| 2758.3 | 41.46 | 17 | 24.46 | 12.54 | 54.00 | H |

**RSE-2DH5-CH0-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4803.8 | 41.74 | -4 | 45.74 | 32.26 | 74.00 | V |
| 7684.6 | 42.44 | -1 | 43.44 | 31.56 | 74.00 | H |
| 11651.2 | 44.92 | 3 | 41.92 | 29.08 | 74.00 | V |

**RSE-2DH5-CH0-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4803.8 | 29.12 | -4 | 33.12 | 24.88 | 54.00 | V |
| 7684.6 | 29.55 | -1 | 30.55 | 24.45 | 54.00 | H |
| 11651.2 | 32.18 | 3 | 29.18 | 21.82 | 54.00 | V |

**RSE-2DH5-CH39-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 34.7 | 10.46 | -15 | 25.46 | 29.54 | 40.00 | H |
| 68.5 | 15.76 | -15 | 30.76 | 24.24 | 40.00 | H |

**RSE-2DH5-CH39-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2522.8 | 56.15 | 16 | 40.15 | 17.85 | 74.00 | V |
| 2690.6 | 54.7 | 17 | 37.7 | 19.30 | 74.00 | H |

**RSE-2DH5-CH39-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2522.8 | 40.51 | 16 | 24.51 | 13.49 | 54.00 | V |
| 2690.6 | 41.59 | 17 | 24.59 | 12.41 | 54.00 | H |

**RSE-2DH5-CH39-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 5432.4 | 42.13 | -3 | 45.13 | 31.87 | 74.00 | V |
| 11655.0 | 45.44 | 3 | 42.44 | 28.56 | 74.00 | V |

**RSE-2DH5-CH39-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 5432.4 | 29.25 | -3 | 32.25 | 24.75 | 54.00 | V |
| 11655.0 | 32.31 | 3 | 29.31 | 21.69 | 54.00 | V |

**RSE-2DH5-CH78-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 34.1 | 10.24 | -15 | 25.24 | 29.76 | 40.00 | H |
| 68.3 | 14.47 | -15 | 29.47 | 25.53 | 40.00 | H |

**RSE-2DH5-CH78-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2530.2 | 54.35 | 16 | 38.35 | 19.65 | 74.00 | V |
| 2741.7 | 54.7 | 17 | 37.7 | 19.30 | 74.00 | V |

**RSE-2DH5-CH78-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2530.2 | 40.49 | 16 | 24.49 | 13.51 | 54.00 | V |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2741.7 | 41.82 | 17 | 24.82 | 12.18 | 54.00 | V |

**RSE-2DH5-CH78-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 5480.6 | 43.15 | -3 | 46.15 | 30.85 | 74.00 | V |
| 10418.0 | 44.33 | 2 | 42.33 | 29.67 | 74.00 | H |

**RSE-2DH5-CH78-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 5480.6 | 29.72 | -3 | 32.72 | 24.28 | 54.00 | V |
| 10418.0 | 31.13 | 2 | 29.13 | 22.87 | 54.00 | H |

**RSE-3DH5-CH0-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 33.8 | 9.9 | -15 | 24.9 | 30.10 | 40.00 | H |
| 68.8 | 12.37 | -15 | 27.37 | 27.63 | 40.00 | H |

**RSE-3DH5-CH0-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2524.7 | 55.93 | 16 | 39.93 | 18.07 | 74.00 | V |
| 2661.0 | 55.37 | 18 | 37.37 | 18.63 | 74.00 | H |
| 2751.1 | 54.69 | 17 | 37.69 | 19.31 | 74.00 | H |

**RSE-3DH5-CH0-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2524.7 | 40.57 | 16 | 24.57 | 13.43 | 54.00 | V |
| 2661.0 | 41.92 | 18 | 23.92 | 12.08 | 54.00 | H |
| 2751.1 | 41.73 | 17 | 24.73 | 12.27 | 54.00 | H |

**RSE-3DH5-CH0-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4803.8 | 41.21 | -4 | 45.21 | 32.79 | 74.00 | V |
| 7209.9 | 42.03 | -2 | 44.03 | 31.97 | 74.00 | H |
| 11593.6 | 45.57 | 4 | 41.57 | 28.43 | 74.00 | V |

**RSE-3DH5-CH0-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4803.8 | 28.41 | -4 | 32.41 | 25.59 | 54.00 | V |
| 7209.9 | 29.01 | -2 | 31.01 | 24.99 | 54.00 | H |
| 11593.6 | 32.9 | 4 | 28.9 | 21.10 | 54.00 | V |

**RSE-3DH5-CH39-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 33.9 | 10.07 | -15 | 25.07 | 29.93 | 40.00 | H |
| 69.2 | 14.17 | -15 | 29.17 | 25.83 | 40.00 | H |

**RSE-3DH5-CH39-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2638.8 | 54.52 | 17 | 37.52 | 19.48 | 74.00 | V |
| 2853.6 | 54.58 | 18 | 36.58 | 19.42 | 74.00 | V |

**RSE-3DH5-CH39-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2638.8 | 41.7 | 17 | 24.7 | 12.30 | 54.00 | V |
| 2853.6 | 41.81 | 18 | 23.81 | 12.19 | 54.00 | V |

**RSE-3DH5-CH39-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4630.4 | 39.9 | -4 | 43.9 | 34.10 | 74.00 | V |
| 7086.1 | 41.5 | -2 | 43.5 | 32.50 | 74.00 | H |
| 10374.9 | 43.49 | 1 | 42.49 | 30.51 | 74.00 | V |

**RSE-3DH5-CH39-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4630.4 | 27.62 | -4 | 31.62 | 26.38 | 54.00 | V |
| 7086.1 | 29.19 | -2 | 31.19 | 24.81 | 54.00 | H |
| 10374.9 | 31.16 | 1 | 30.16 | 22.84 | 54.00 | V |

**RSE-3DH5-CH78-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 33.8 | 9.7 | -15 | 24.7 | 30.30 | 40.00 | H |
| 69.0 | 15.2 | -15 | 30.2 | 24.80 | 40.00 | H |

**RSE-3DH5-CH78-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2638.0 | 55.86 | 17 | 38.86 | 18.14 | 74.00 | V |
| 2789.2 | 54.02 | 17 | 37.02 | 19.98 | 74.00 | V |
| 2964.8 | 55.11 | 18 | 37.11 | 18.89 | 74.00 | V |

**RSE-3DH5-CH78-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 2638.0 | 41.7 | 17 | 24.7 | 12.30 | 54.00 | V |
| 2789.2 | 41.36 | 17 | 24.36 | 12.64 | 54.00 | V |
| 2964.8 | 42.41 | 18 | 24.41 | 11.59 | 54.00 | V |

**RSE-3DH5-CH78-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4661.8 | 40.18 | -4 | 44.18 | 33.82 | 74.00 | H |
| 8001.1 | 42.59 | -1 | 43.59 | 31.41 | 74.00 | H |
| 11594.5 | 44.98 | 4 | 40.98 | 29.02 | 74.00 | V |

**RSE-3DH5-CH78-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|---|---|---|---|---|---|---|
| 4661.8 | 27.67 | -4 | 31.67 | 26.33 | 54.00 | H |
| 8001.1 | 30.31 | -1 | 31.31 | 23.69 | 54.00 | H |
| 11594.5 | 32.77 | 4 | 28.77 | 21.23 | 54.00 | V |

## 6.11. AC Powerline Conducted Emission

| | |
|---|---|
| **Specifications:** | FCC 47 Part 15.207, RSS-GEN 8.8 |
| **DUT Serial Number:** | 25B02W000005#S07 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| **Test Results:** | Pass |

**Method of Measurement: ANSI C63.10-2013-clause 6.2**

1.The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.

2.If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.

3.The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.

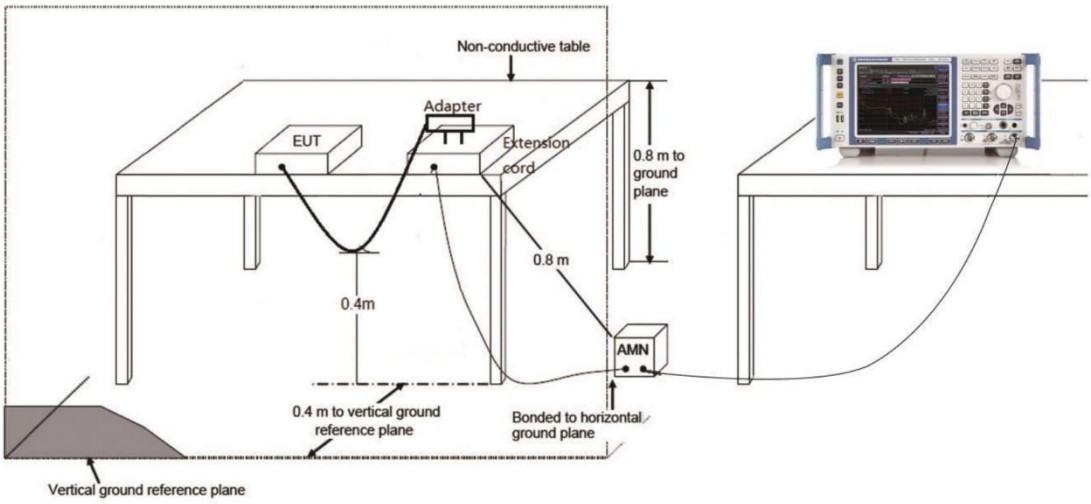
4.If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

**Measurement Uncertainty:**

| | |
|---|---|
| Measurement Uncertainty | 1.97db（k=2） |

**Test Setup**



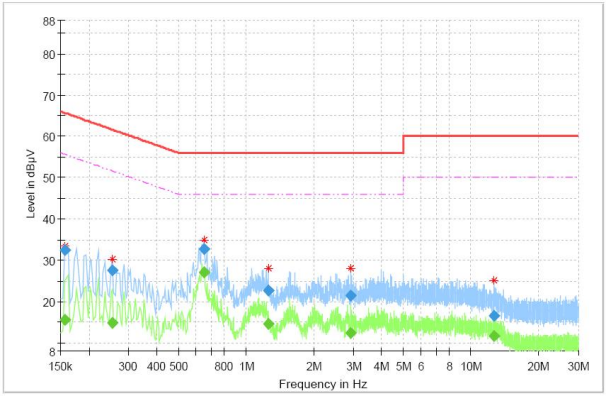

Test Condition

| Voltage（V） | Frequency（Hz） |
|---|---|
| 120 | 60 |

**Measurement Result and limit:**

(Quasi-peak-average Limit)

| Frequency range (MHz) | Quasi-peak Limit (dBμV) | Average Limit (dBμV) | Conclusion |
|---|---|---|---|
| 0.15 to 0.5 | 66 to 56 | 56 to 46 | P |
| 0.5 to 5 | 56 | 46 | |
| 5 to 30 | 60 | 50 | |
| NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz. | | | |

| BT DH5 CH2441 | / |
|---|---|
|  | / |



| Frequency (MHz) | QuasiPeak (dBµV) | Average (dµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 0.157463 | --- | 15.60 | 55.60 | 40.00 | 15000.0 | 9.000 | L1 | ON | 10.0 |
| 0.157463 | 32.55 | --- | 65.60 | 33.05 | 15000.0 | 9.000 | L1 | ON | 10.0 |
| 0.254475 | --- | 14.78 | 51.61 | 36.83 | 15000.0 | 9.000 | L1 | ON | 10.1 |
| 0.254475 | 27.45 | --- | 61.61 | 34.16 | 15000.0 | 9.000 | L1 | ON | 10.1 |
| 0.649988 | 32.72 | --- | 56.00 | 23.28 | 15000.0 | 9.000 | N | ON | 10.1 |
| 0.649988 | --- | 27.16 | 46.00 | 18.84 | 15000.0 | 9.000 | N | ON | 10.1 |
| 1.258181 | --- | 14.60 | 46.00 | 31.40 | 15000.0 | 9.000 | N | ON | 10.0 |
| 1.258181 | 22.63 | --- | 56.00 | 33.37 | 15000.0 | 9.000 | N | ON | 10.0 |
| 2.907394 | 21.38 | --- | 56.00 | 34.62 | 15000.0 | 9.000 | L1 | ON | 9.8 |
| 2.907394 | --- | 12.49 | 46.00 | 33.51 | 15000.0 | 9.000 | L1 | ON | 9.8 |
| 12.694463 | --- | 11.66 | 50.00 | 38.34 | 15000.0 | 9.000 | N | ON | 9.9 |
| 12.694463 | 16.68 | --- | 60.00 | 43.32 | 15000.0 | 9.000 | N | ON | 9.9 |

Note:

1. All modes have been tested and only the worst mode is recorded in the report.
2. L1 and N is all have been tested, the result of them is synthesized in the above data diagram.

## ANNEX A EUT Photos

See the document ”25B02W000005-External Photos”.
See the document ”25B02W000005-Internal Photos”.

## ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

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

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