

# TEST REPORT

**Reference No.**..... : WTH25D11314999W002  
**FCC ID** ..... : 2BRQU-CUR-F20H-001  
**Applicant**..... : Shenzhen CNNT Technology Co.Ltd  
**Address**..... : Room 301, Building D, Fuyu Huayi Science and Technology Park, No.  
333, Dabutou Road, Songxuan Community, Guanhu Sub-district,  
Longhua District, Shenzhen City, China  
**Manufacturer** ..... : Shenzhen CNNT Technology Co.Ltd  
**Address**..... : Room 301, Building D, Fuyu Huayi Science and Technology Park, No.  
333, Dabutou Road, Songxuan Community, Guanhu Sub-district,  
Longhua District, Shenzhen City, China  
**Product**..... : UHF RFID Reader  
**Model(s)**..... : CUR-F20H-001  
**Standards**..... : FCC 47CFR Part 15.247  
**Date of Receipt Sample** .... : 2025-12-01  
**Date of Test** ..... : 2025-12-04 to 2026-01-06  
**Date of Issue**..... : 2026-02-09  
**Test Result**..... : **Pass**

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

| Test Report No.    | Date of Receipt Sample | Date of Test                   | Date of Issue | Purpose  | Comment | Approved |
|--------------------|------------------------|--------------------------------|---------------|----------|---------|----------|
| WTH25D11314999W002 | 2025-12-01             | 2025-12-04<br>to<br>2026-01-06 | 2026-02-09    | Original | -       | Valid    |

## 4 General Information

### 4.1 General Description of E.U.T.

|                    |                                             |
|--------------------|---------------------------------------------|
| Product:           | UHF RFID Reader                             |
| Model(s):          | CUR-F20H-001                                |
| Model Description: | N/A                                         |
| Test Sample No.:   | 1-1/1                                       |
| Hardware Version:  | F20H-A V1.0<br>F20H-B V1.0<br>F20H-LED V1.0 |
| Software Version:  | URF F20H_UHF V20.0.0.0.0.3.BIN              |

### 4.2 Details of E.U.T.

|                       |                                  |
|-----------------------|----------------------------------|
| Operation Frequency:  | 902.750~927.250MHz               |
| Max. RF output power: | Ant.1: 25.39dBm; Ant.2: 25.50dBm |
| Type of Modulation:   | ASK                              |
| Antenna installation: | External Antenna                 |
| Antenna Gain:         | 6dBi                             |

Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.

|          |          |
|----------|----------|
| Ratings: | DC 9-36V |
|----------|----------|

### 4.3 Channel List

Normal

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 0           | 902.750         | 1           | 903.250         | 2           | 903.750         | 3           | 904.250         |
| 4           | 904.750         | 5           | 905.250         | 6           | 905.750         | 7           | 906.250         |
| 8           | 906.750         | 9           | 907.250         | 10          | 907.750         | 11          | 908.250         |
| 12          | 908.750         | 13          | 909.250         | 14          | 909.750         | 15          | 910.250         |
| 16          | 910.750         | 17          | 911.250         | 18          | 911.750         | 19          | 912.250         |
| 20          | 912.750         | 21          | 913.250         | 22          | 913.750         | 23          | 914.250         |
| 24          | 914.750         | 25          | 915.250         | 26          | 915.750         | 27          | 916.250         |
| 28          | 916.750         | 29          | 917.250         | 30          | 917.750         | 31          | 918.250         |
| 32          | 918.750         | 33          | 919.250         | 34          | 919.750         | 35          | 920.250         |
| 36          | 920.750         | 37          | 921.250         | 38          | 921.750         | 39          | 922.250         |
| 40          | 922.750         | 41          | 923.250         | 42          | 923.750         | 43          | 924.250         |
| 44          | 924.750         | 45          | 925.250         | 46          | 925.750         | 47          | 926.250         |
| 48          | 926.750         | 49          | 927.250         | -           | -               | -           | -               |

### 4.4 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests; the worst data were recorded and reported.

| Test mode    | Low channel | Middle channel | High channel |
|--------------|-------------|----------------|--------------|
| Transmitting | 902.750MHz  | 915.750MHz     | 927.250MHz   |

## 4.5 Test Facility

The test facility has a test site registered with the following organizations:

**ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.**

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

**FCC Designation No.: CN1201. Test Firm Registration No.: 523476.**

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

## 5 Test Summary

| Test Items                                                        | Test Requirement                 | Result   |
|-------------------------------------------------------------------|----------------------------------|----------|
| Radiated Spurious Emissions                                       | 15.205(a)<br>15.209<br>15.247(d) | PASS     |
| Conducted Spurious emissions                                      | 15.247(d)                        | PASS     |
| Band edge                                                         | 15.247(d)<br>15.205(a)           | PASS     |
| Conducted Emission                                                | 15.207                           | PASS     |
| 20dB Bandwidth and 99% Bandwidth                                  | 15.247(a)(1)                     | PASS     |
| Maximum Peak Output Power                                         | 15.247(b)(1)                     | PASS     |
| Frequency Separation                                              | 15.247(a)(1)                     | PASS     |
| Number of Hopping Frequency                                       | 15.247(a)(1)(iii)                | PASS     |
| Dwell time                                                        | 15.247(a)(1)(iii)                | PASS     |
| Antenna Requirement                                               | 15.203                           | Complies |
| Maximum Permissible Exposure<br>(Exposure of Humans to RF Fields) | 1.1307(b)(1)                     | PASS     |

## 6 Equipment Used during Test

### 6.1 Equipments List

| Item                                                       | Equipment                 | Manufacturer | Model No.             | Serial No. | Last Cal. Date | Calibration Due Date |
|------------------------------------------------------------|---------------------------|--------------|-----------------------|------------|----------------|----------------------|
| <b>Conducted Emissions 1#</b>                              |                           |              |                       |            |                |                      |
| 1                                                          | EMI Test Receiver         | R&S          | ESCI                  | 100947     | 2025-07-04     | 2026-07-03           |
| 2                                                          | LISN                      | R&S          | ENV216                | 100115     | 2025-06-03     | 2026-06-02           |
| 3                                                          | Cable                     | Top          | TYPE16(3.5M)          | -          | 2025-06-03     | 2026-06-02           |
| <b>3m Semi-anechoic Chamber for Radiation Emissions 1#</b> |                           |              |                       |            |                |                      |
| 1                                                          | Spectrum Analyzer         | R&S          | FSP30                 | 100091     | 2025-04-19     | 2026-04-18           |
| 2                                                          | Amplifier                 | Agilent      | 8447D                 | 2944A10178 | 2025-07-04     | 2026-07-03           |
| 3                                                          | Tri-log Broadband Antenna | SCHWARZBECK  | VULB9163              | 336        | 2025-07-20     | 2026-07-19           |
| 4                                                          | Coaxial Cable             | Top          | TYPE16(13M)           | -          | 2025-04-19     | 2026-04-18           |
| 5                                                          | Broad-band Horn Antenna   | SCHWARZBECK  | BBHA 9120 D           | 9120D-1314 | 2025-08-09     | 2026-08-08           |
| 6                                                          | Broad-band Horn Antenna   | SCHWARZBECK  | BBHA 9170             | 335        | 2025-07-04     | 2026-07-03           |
| 7                                                          | Broadband Preamplifier    | COMPLIANCE   | PAP-1G18              | 2004       | 2025-07-04     | 2026-07-03           |
| 8                                                          | Coaxial Cable             | Top          | ZT26-NJ-NJ-8M/FA      | -          | 2025-04-19     | 2026-04-18           |
| 9                                                          | Microwave Amplifier       | SCHWARZBECK  | BBV 9721              | 100472     | 2025-07-04     | 2026-07-03           |
| 10                                                         | Coaxial Cable             | Top          | ZT40-2.92J-2.92J-2.0M | 17100919   | 2025-04-19     | 2026-04-18           |
| <b>3m Semi-anechoic Chamber for Radiation Emissions 2#</b> |                           |              |                       |            |                |                      |
| 1                                                          | Test Receiver             | R&S          | ESCI                  | 101296     | 2025-04-19     | 2026-04-18           |
| 2                                                          | Trilog Broadband Antenna  | SCHWARZBECK  | VULB9160              | 9160-3325  | 2025-07-05     | 2026-07-04           |
| 3                                                          | Active Loop Antenna       | Com-Power    | AL-130R               | 10160007   | 2025-04-21     | 2026-04-20           |
| 4                                                          | Amplifier                 | ANRITSU      | MH648A                | M43381     | 2025-04-19     | 2026-04-18           |
| 5                                                          | Cable                     | HUBER+SUHNER | CBL2                  | 525178     | 2025-04-19     | 2026-04-18           |
| <b>RF Conducted Testing</b>                                |                           |              |                       |            |                |                      |
| 1                                                          | Spectrum Analyzer         | R&S          | FSP40                 | 100501     | 2025-04-19     | 2026-04-18           |
| 2                                                          | Spectrum Analyzer         | Agilent      | N9020A                | MY49100060 | 2025-07-05     | 2026-07-04           |

#### Test Software:

| Test Item                                       | Software name | Software version  |
|-------------------------------------------------|---------------|-------------------|
| Conduction disturbance<br>Radiated Emission(3m) | EZ-EMC        | EZ-EMC(RA-03A1-1) |

## 6.2 Description of Support Units

| Equipment | Manufacturer | Model No. | Series No. |
|-----------|--------------|-----------|------------|
| /         | /            | /         | /          |

## 6.3 Measurement Uncertainty

| Parameter                                       | Uncertainty                             |
|-------------------------------------------------|-----------------------------------------|
| Conducted Emission                              | ± 3.64 dB(AC mains 150KHz~30MHz)        |
| Radiated Spurious Emissions                     | ± 5.08 dB (Bilog antenna 30M~1000MHz)   |
|                                                 | ± 4.99 dB (Horn antenna 1000M~25000MHz) |
| Radio Frequency                                 | ± 1 x 10 <sup>-7</sup> Hz               |
| RF Power                                        | ± 0.42 dB                               |
| Dwell time                                      | 1.0%                                    |
| Conducted Spurious Emissions                    | ± 2.76 dB (9kHz~26500MHz)               |
| Confidence interval: 95%. Confidence factor:k=2 |                                         |

7 Conducted Emission

Test Requirement: FCC 47CFR Part 15 Section 15.207  
Test Method: ANSI C63.10-2020  
Test Result: PASS  
Frequency Range: 150kHz to 30MHz  
Limit:

| Frequency (MHz)                                 | Conducted Limit (dBμV) |           |
|-------------------------------------------------|------------------------|-----------|
|                                                 | Quasi-peak             | Average   |
| 0.15 to 0.5                                     | 66 to 56*              | 56 to 46* |
| 0.5 to 5                                        | 56                     | 46        |
| 5 to 30                                         | 60                     | 50        |
| *Decreases with the logarithm of the frequency. |                        |           |

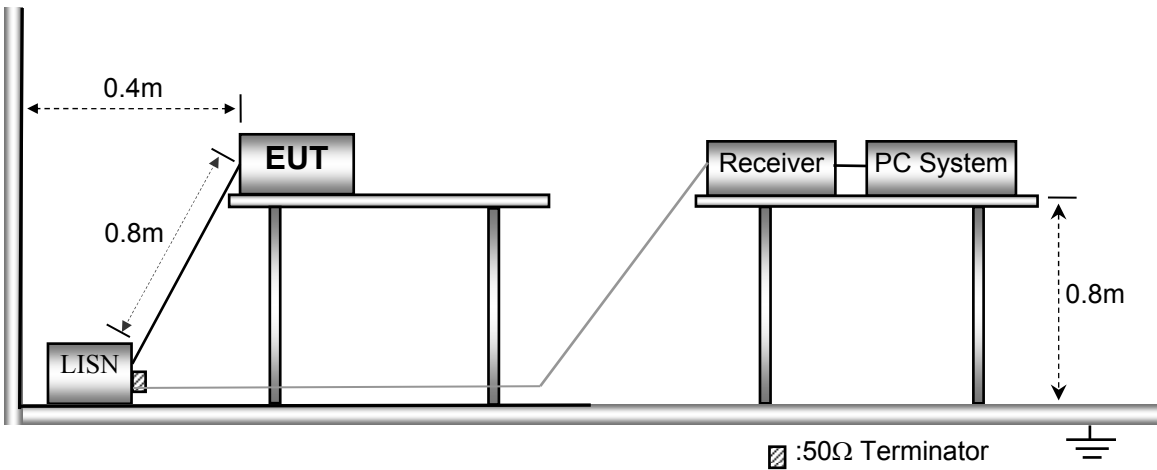
7.1 E.U.T. Operation

Operating Environment:  
Temperature: 24.8 °C  
Humidity: 41.1 % RH  
Atmospheric Pressure: 101.2kPa

EUT Operation:  
The test was performed in Transmitting mode, the worst test data were shown in the report.

7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020.



7.3 Measurement Description

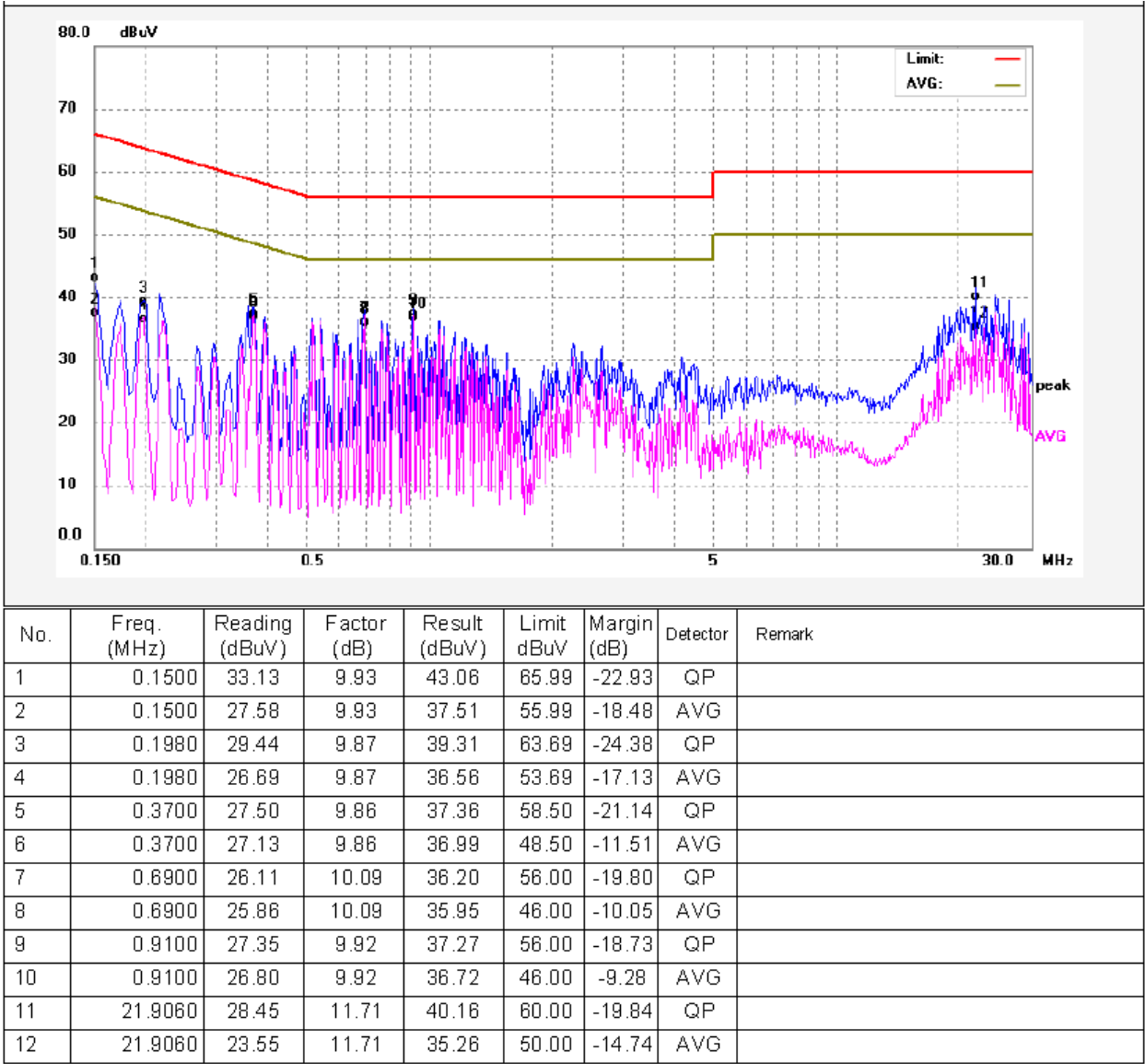
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

7.4 Conducted Emission Test Result

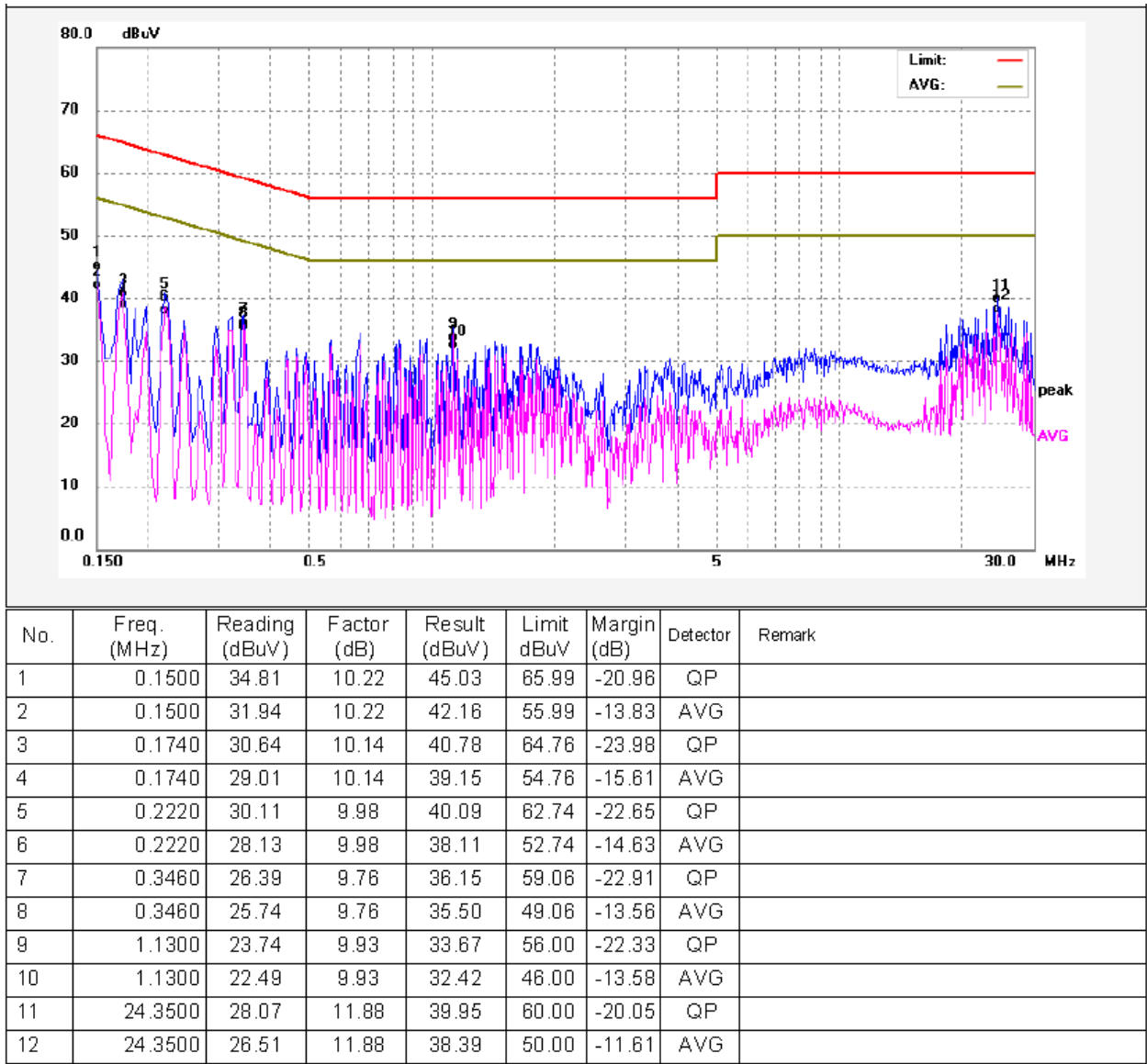
Remark:

- 1. Only the worst data (middle channel mode) were reported
- 2. Ant.1 & Ant.2 both tested, only the worst data (Ant.2) were reported.

Live line:



Neutral line:



## 8 Radiated Spurious Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.205 &15.209 & 15.247

Test Method: ANSI C63.10-2020

Test Result: PASS

Measurement Distance: 3m

Limit:

| Frequency<br>(MHz) | Field Strength |                 | Field Strength Limit at 3m Measurement Dist |                                |
|--------------------|----------------|-----------------|---------------------------------------------|--------------------------------|
|                    | uV/m           | Distance<br>(m) | uV/m                                        | dBuV/m                         |
| 0.009 ~ 0.490      | 2400/F(kHz)    | 300             | 10000 * 2400/F(kHz)                         | $20\log^{(2400/F(kHz))} + 80$  |
| 0.490 ~ 1.705      | 24000/F(kHz)   | 30              | 100 * 24000/F(kHz)                          | $20\log^{(24000/F(kHz))} + 40$ |
| 1.705 ~ 30         | 30             | 30              | 100 * 30                                    | $20\log^{(30)} + 40$           |
| 30 ~ 88            | 100            | 3               | 100                                         | $20\log^{(100)}$               |
| 88 ~ 216           | 150            | 3               | 150                                         | $20\log^{(150)}$               |
| 216 ~ 960          | 200            | 3               | 200                                         | $20\log^{(200)}$               |
| Above 960          | 500            | 3               | 500                                         | $20\log^{(500)}$               |

### 8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 101.2kPa

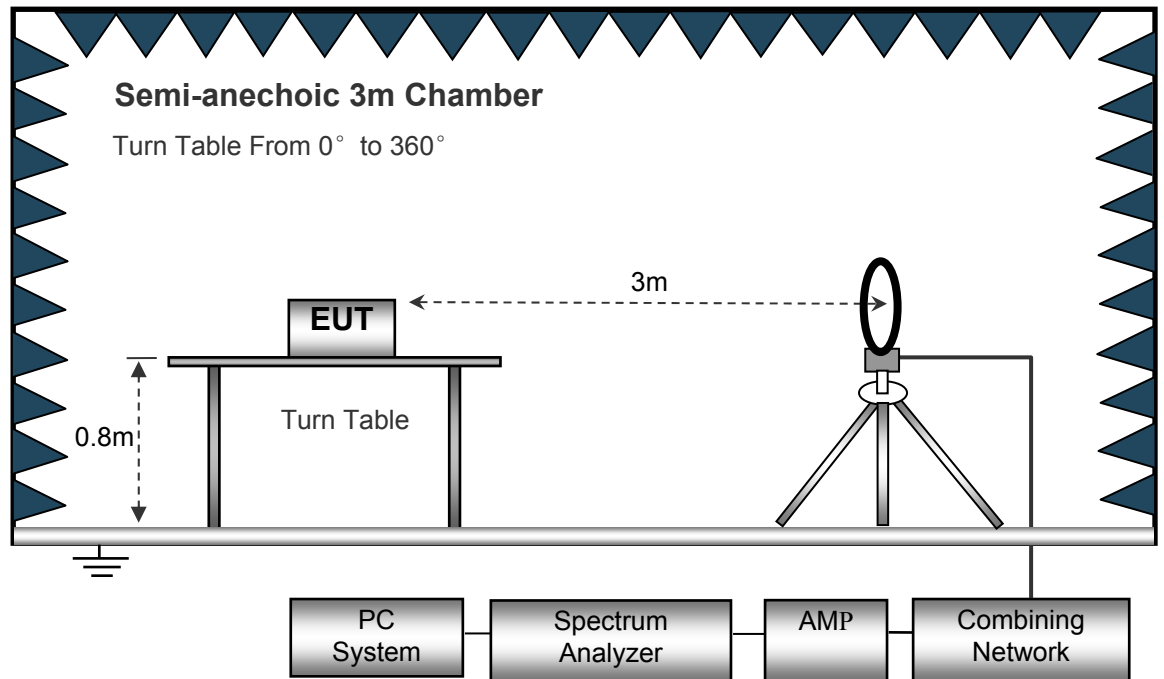
EUT Operation :

The test was performed in Transmitting mode, the worst test data were shown in the report.

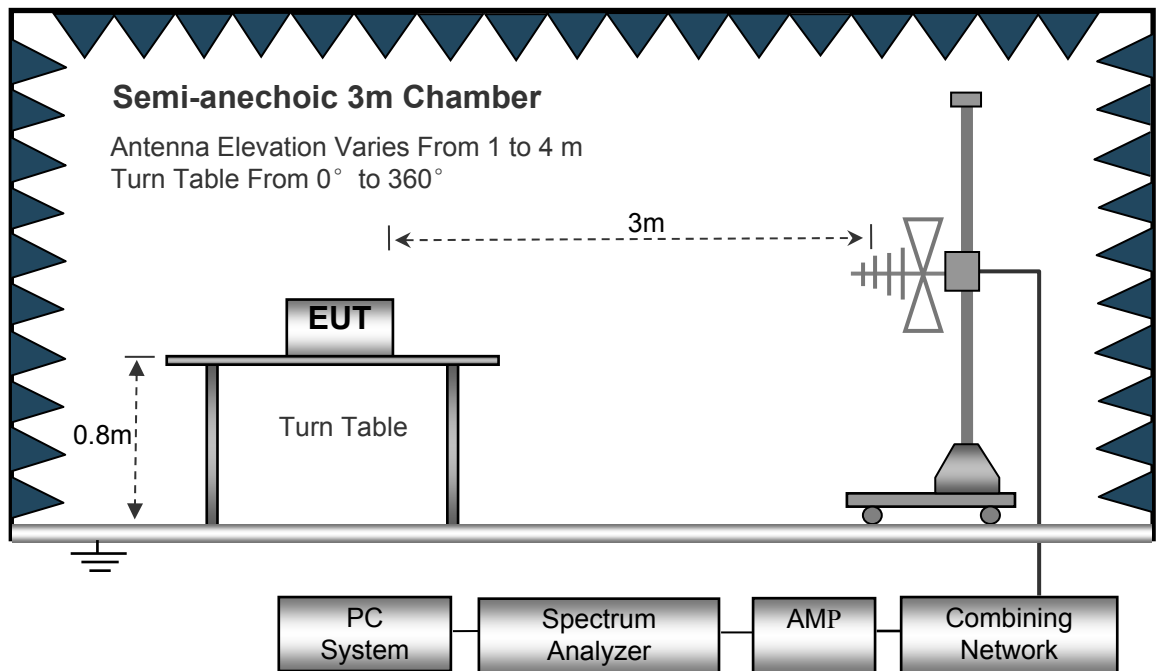
## 8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10-2020.

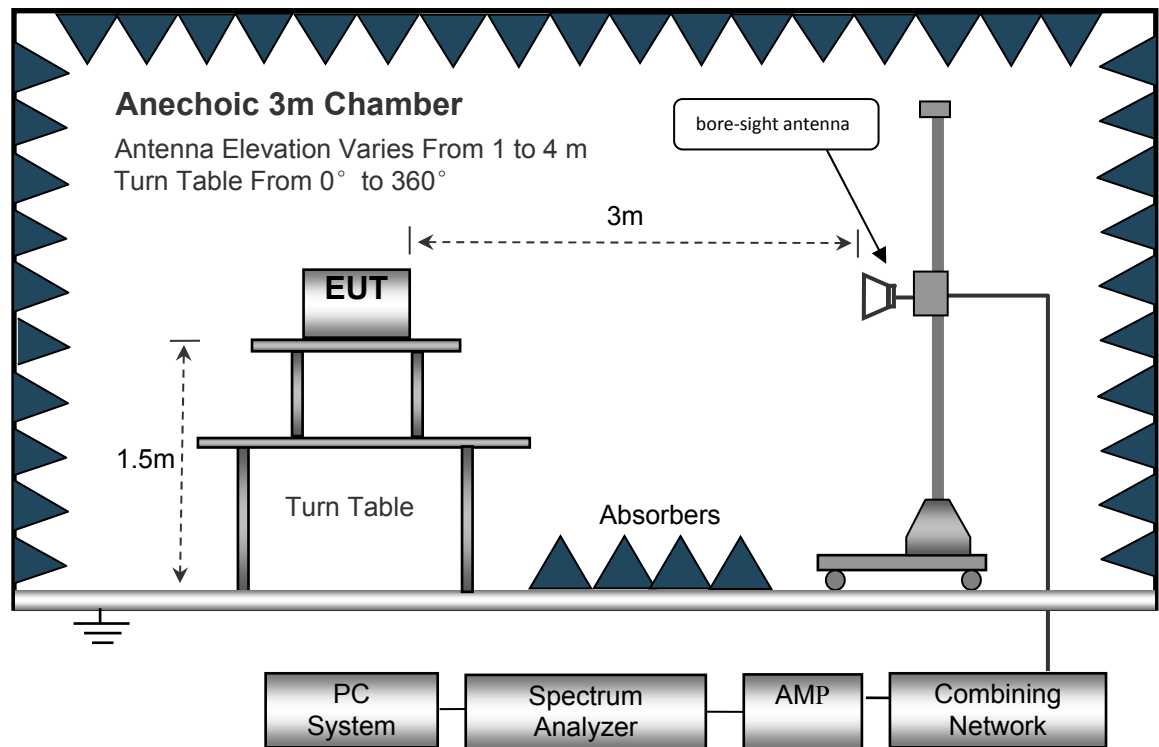
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



### 8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed ..... Auto  
IF Bandwidth.....10kHz  
Video Bandwidth.....10kHz  
Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

Sweep Speed ..... Auto  
Detector .....PK  
Resolution Bandwidth.....100kHz  
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed ..... Auto  
Detector .....PK  
Resolution Bandwidth.....1MHz  
Video Bandwidth.....3MHz  
Detector .....Ave.  
Resolution Bandwidth.....1MHz  
Video Bandwidth.....10Hz

## 8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.

## 8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

8.6 Summary of Test Results

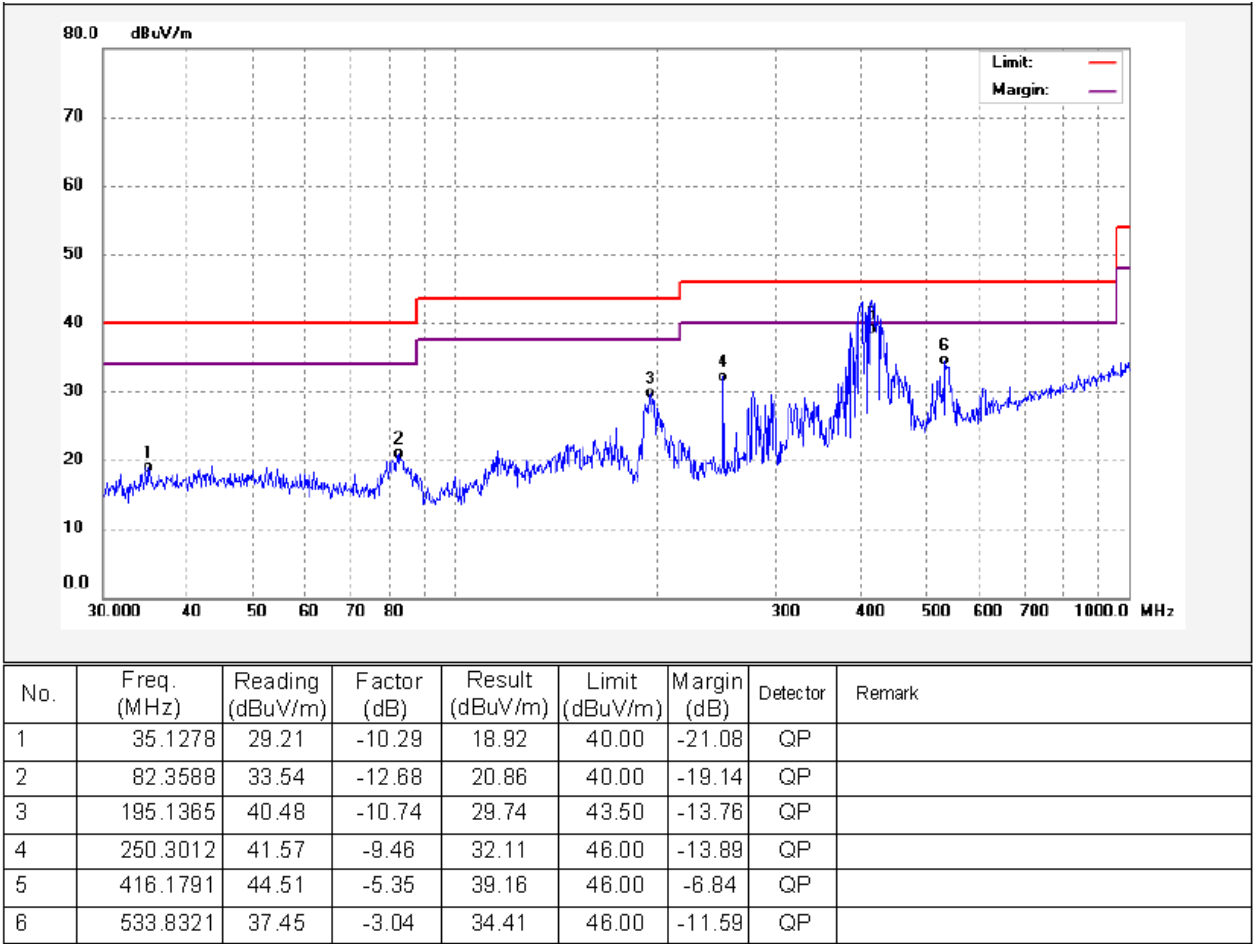
Remark: Ant.1 & Ant.2 both tested, only the worst data (Ant.2) were reported.

Test Frequency: 9kHz ~ 30MHz

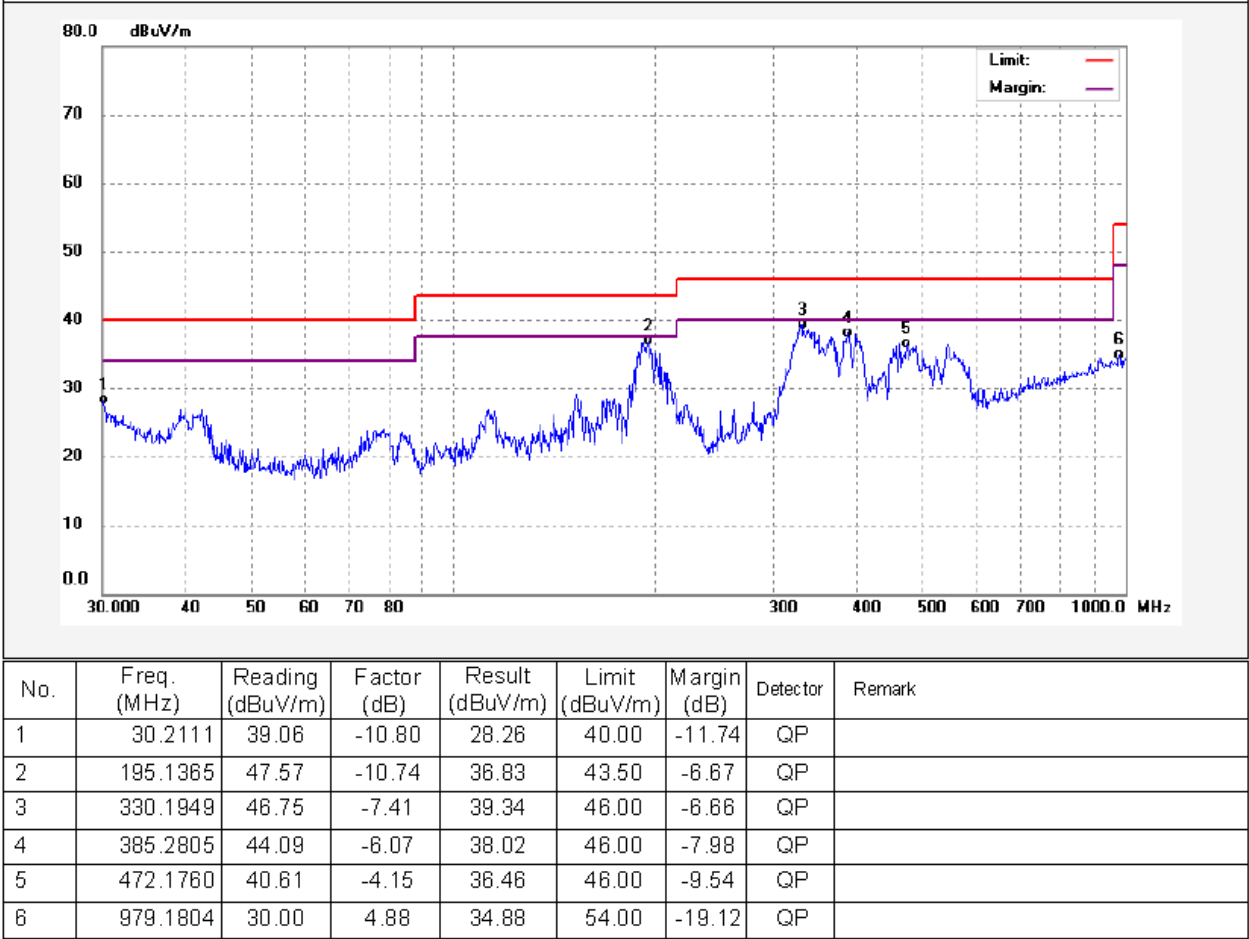
The measurements were more than 20 dB below the limit and not reported.

Spurious Emission From 30MHz to 1GHz

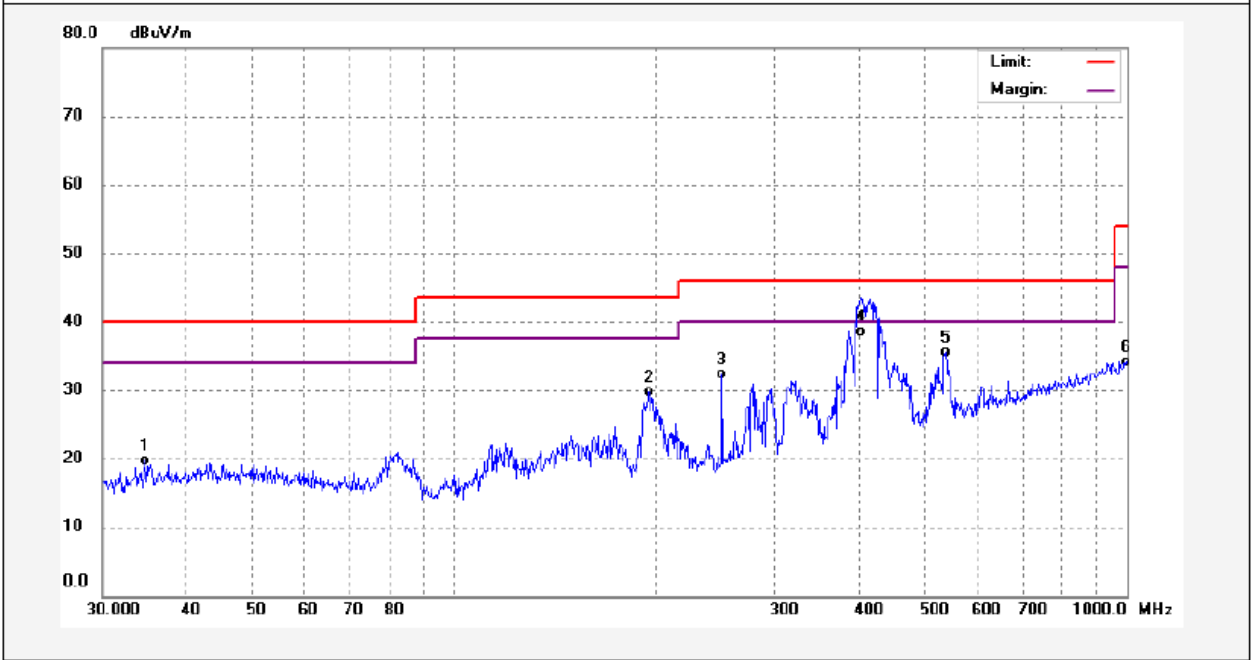
|               |           |           |            |
|---------------|-----------|-----------|------------|
| Test Channel: | 902.75MHz | Polarity: | Horizontal |
|---------------|-----------|-----------|------------|



|               |           |           |          |
|---------------|-----------|-----------|----------|
| Test Channel: | 902.75MHz | Polarity: | Vertical |
|---------------|-----------|-----------|----------|

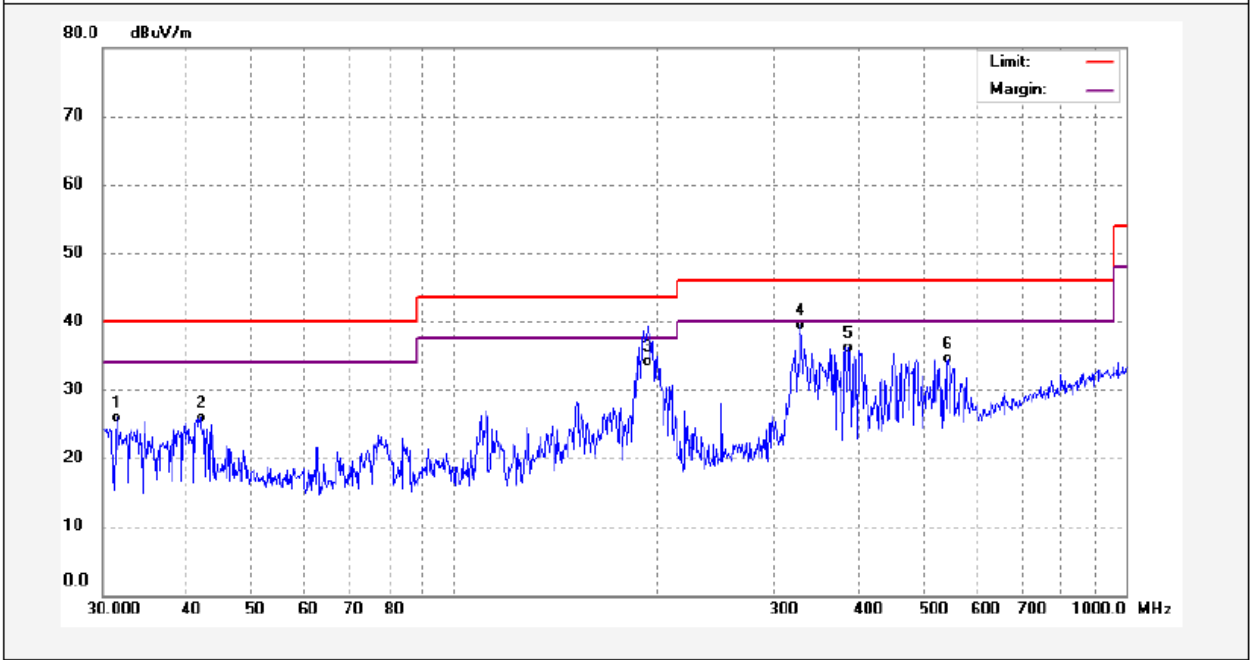


|               |           |           |            |
|---------------|-----------|-----------|------------|
| Test Channel: | 915.75MHz | Polarity: | Horizontal |
|---------------|-----------|-----------|------------|



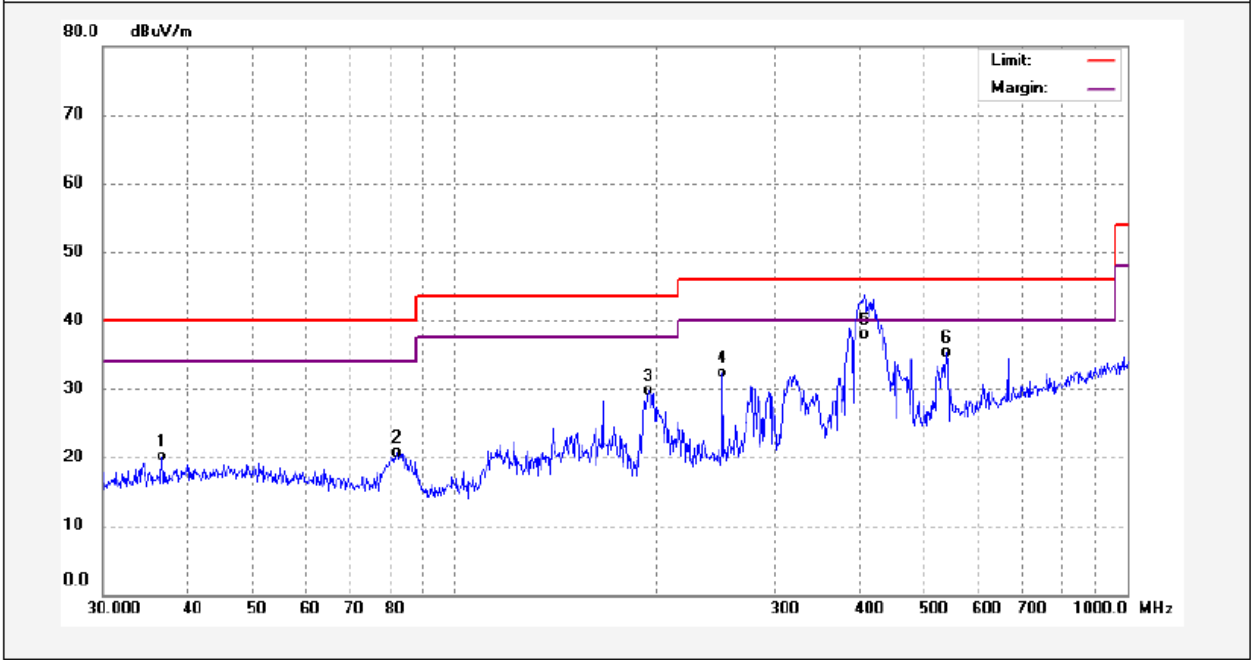
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1   | 34.7602     | 29.95            | -10.32      | 19.63           | 40.00          | -20.37      | QP       |        |
| 2   | 195.1365    | 40.48            | -10.74      | 29.74           | 43.50          | -13.76      | QP       |        |
| 3   | 250.3012    | 41.67            | -9.46       | 32.21           | 46.00          | -13.79      | QP       |        |
| 4   | 401.8385    | 44.26            | -5.66       | 38.60           | 46.00          | -7.40       | QP       |        |
| 5   | 537.5891    | 38.54            | -2.98       | 35.56           | 46.00          | -10.44      | QP       |        |
| 6   | 996.4996    | 29.02            | 5.09        | 34.11           | 54.00          | -19.89      | QP       |        |

|               |           |           |          |
|---------------|-----------|-----------|----------|
| Test Channel: | 915.75MHz | Polarity: | Vertical |
|---------------|-----------|-----------|----------|



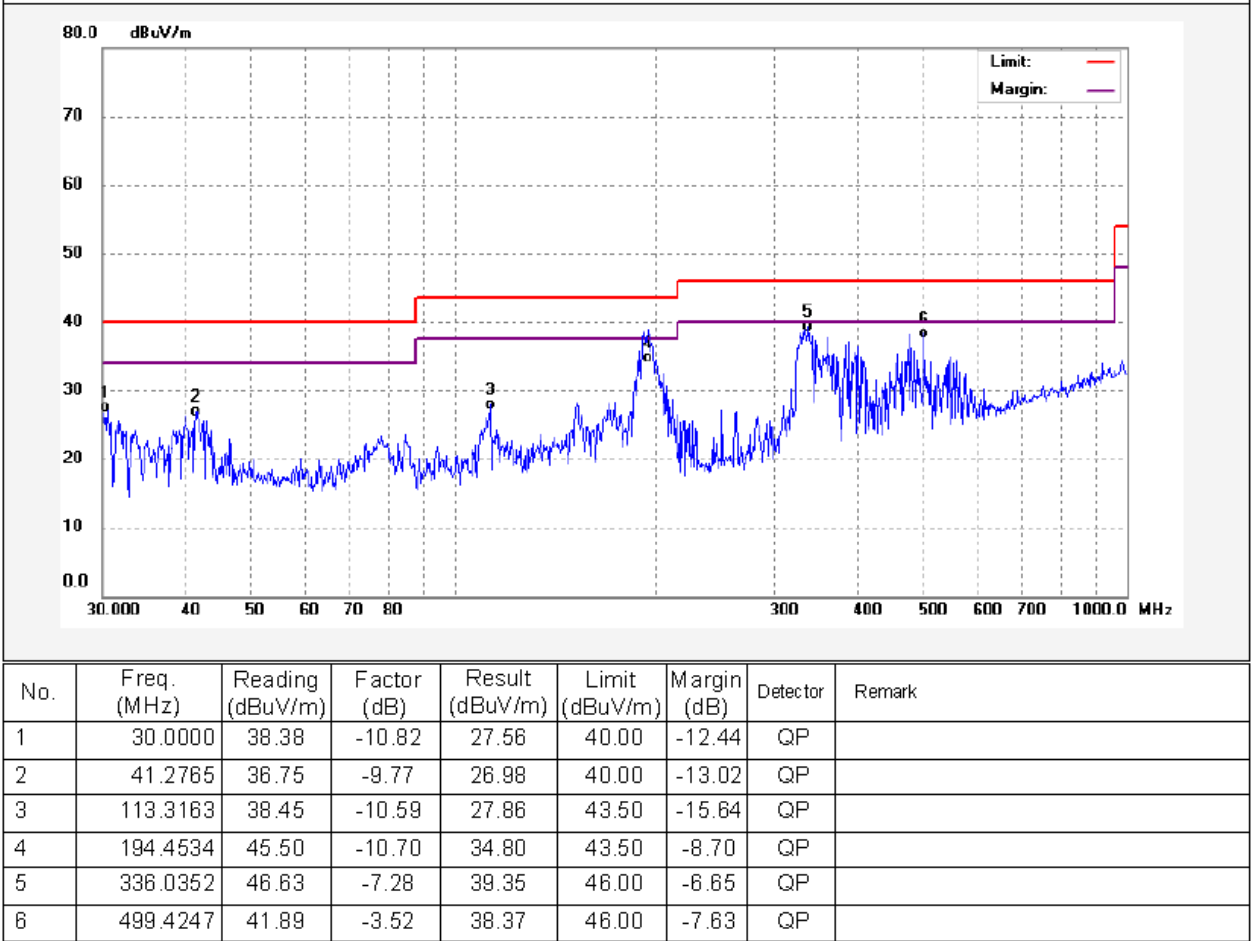
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1   | 31.5095     | 36.50            | -10.66      | 25.84           | 40.00          | -14.16      | QP       |        |
| 2   | 42.0066     | 35.65            | -9.77       | 25.88           | 40.00          | -14.12      | QP       |        |
| 3   | 194.4534    | 44.90            | -10.70      | 34.20           | 43.50          | -9.30       | QP       |        |
| 4   | 327.8873    | 46.97            | -7.46       | 39.51           | 46.00          | -6.49       | QP       |        |
| 5   | 386.6338    | 42.16            | -6.04       | 36.12           | 46.00          | -9.88       | QP       |        |
| 6   | 543.2742    | 37.42            | -2.90       | 34.52           | 46.00          | -11.48      | QP       |        |

|               |           |           |            |
|---------------|-----------|-----------|------------|
| Test Channel: | 927.25MHz | Polarity: | Horizontal |
|---------------|-----------|-----------|------------|



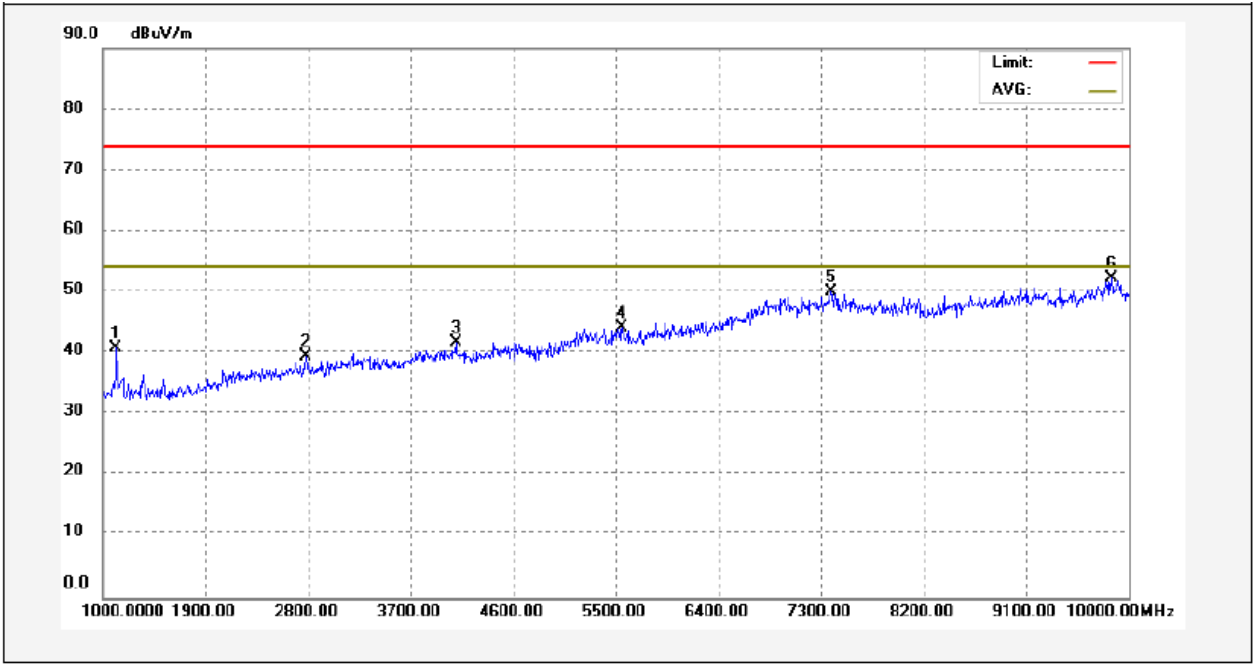
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1   | 36.7662     | 30.17            | -10.11      | 20.06           | 40.00          | -19.94      | QP       |        |
| 2   | 82.0706     | 33.37            | -12.66      | 20.71           | 40.00          | -19.29      | QP       |        |
| 3   | 194.4534    | 40.48            | -10.70      | 29.78           | 43.50          | -13.72      | QP       |        |
| 4   | 250.3012    | 41.80            | -9.46       | 32.34           | 46.00          | -13.66      | QP       |        |
| 5   | 406.0880    | 43.46            | -5.56       | 37.90           | 46.00          | -8.10       | QP       |        |
| 6   | 537.5891    | 38.27            | -2.98       | 35.29           | 46.00          | -10.71      | QP       |        |

|               |           |           |          |
|---------------|-----------|-----------|----------|
| Test Channel: | 927.25MHz | Polarity: | Vertical |
|---------------|-----------|-----------|----------|



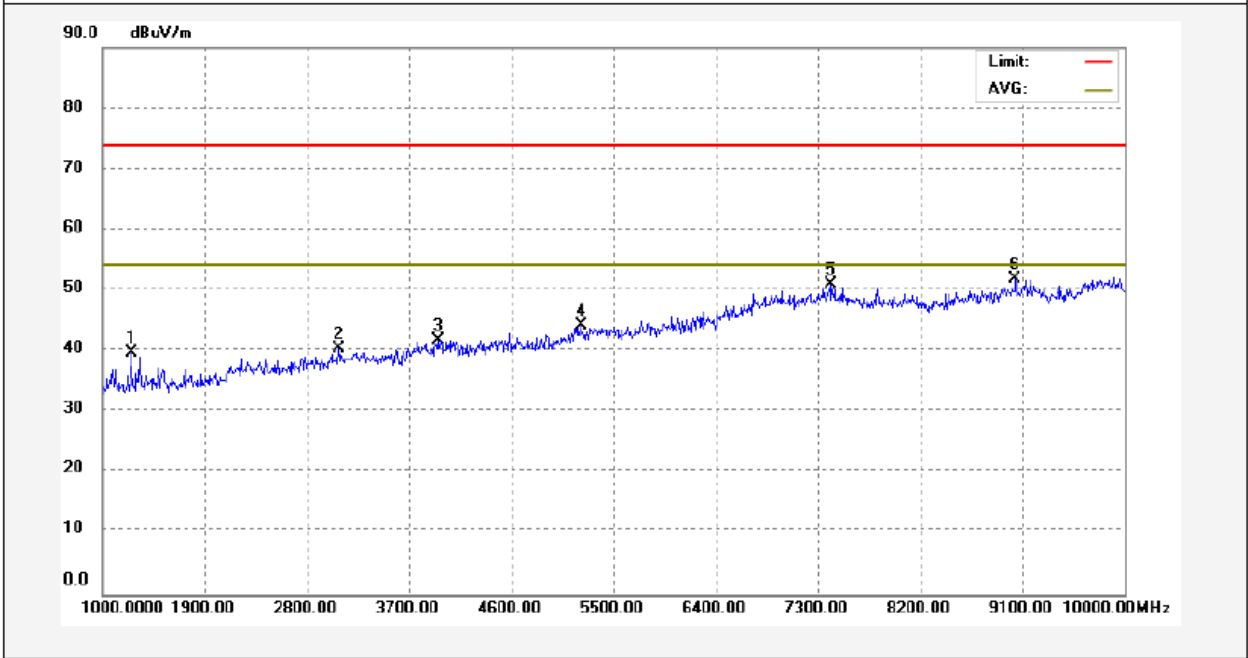
Spurious Emission Above 1GHz

|               |           |           |            |
|---------------|-----------|-----------|------------|
| Test Channel: | 902.75MHz | Polarity: | Horizontal |
|---------------|-----------|-----------|------------|



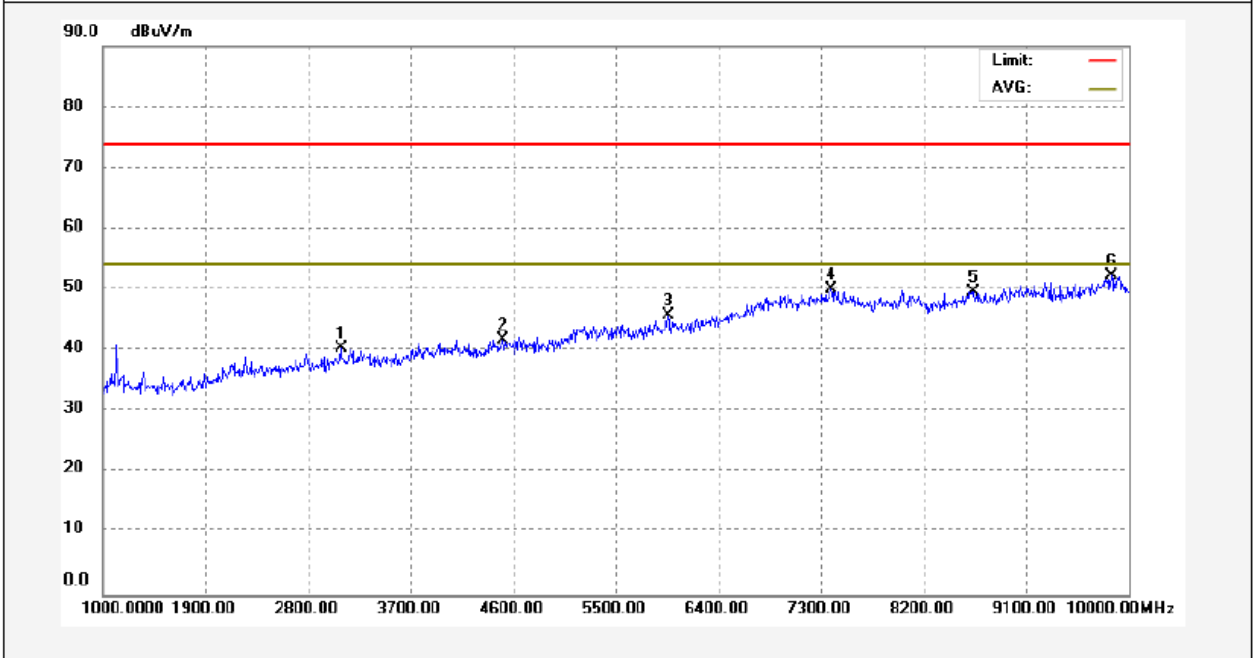
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1   | 1117.000    | 55.16            | -14.41      | 40.75           | 74.00          | -33.25      | peak     |        |
| 2   | 2782.000    | 49.01            | -9.60       | 39.41           | 74.00          | -34.59      | peak     |        |
| 3   | 4096.000    | 49.43            | -7.77       | 41.66           | 74.00          | -32.34      | peak     |        |
| 4   | 5554.000    | 49.03            | -4.90       | 44.13           | 74.00          | -29.87      | peak     |        |
| 5   | 7390.000    | 49.23            | 0.83        | 50.06           | 74.00          | -23.94      | peak     |        |
| 6   | 9847.000    | 50.10            | 2.25        | 52.35           | 74.00          | -21.65      | peak     |        |

|               |           |           |          |
|---------------|-----------|-----------|----------|
| Test Channel: | 902.75MHz | Polarity: | Vertical |
|---------------|-----------|-----------|----------|



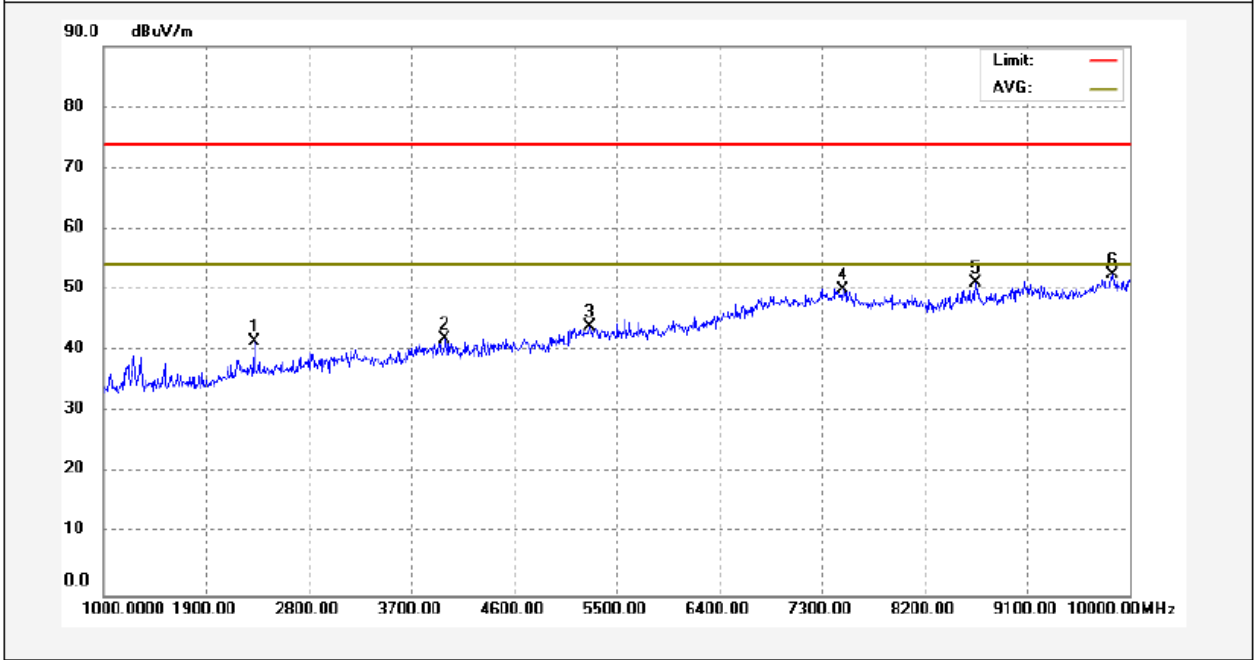
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1   | 1252.000    | 53.51            | -13.90      | 39.61           | 74.00          | -34.39      | peak     |        |
| 2   | 3079.000    | 49.66            | -9.29       | 40.37           | 74.00          | -33.63      | peak     |        |
| 3   | 3952.000    | 49.43            | -7.69       | 41.74           | 74.00          | -32.26      | peak     |        |
| 4   | 5212.000    | 49.16            | -5.00       | 44.16           | 74.00          | -29.84      | peak     |        |
| 5   | 7408.000    | 50.04            | 0.83        | 50.87           | 74.00          | -23.13      | peak     |        |
| 6   | 9037.000    | 50.54            | 1.29        | 51.83           | 74.00          | -22.17      | peak     |        |

|               |           |           |            |
|---------------|-----------|-----------|------------|
| Test Channel: | 915.75MHz | Polarity: | Horizontal |
|---------------|-----------|-----------|------------|



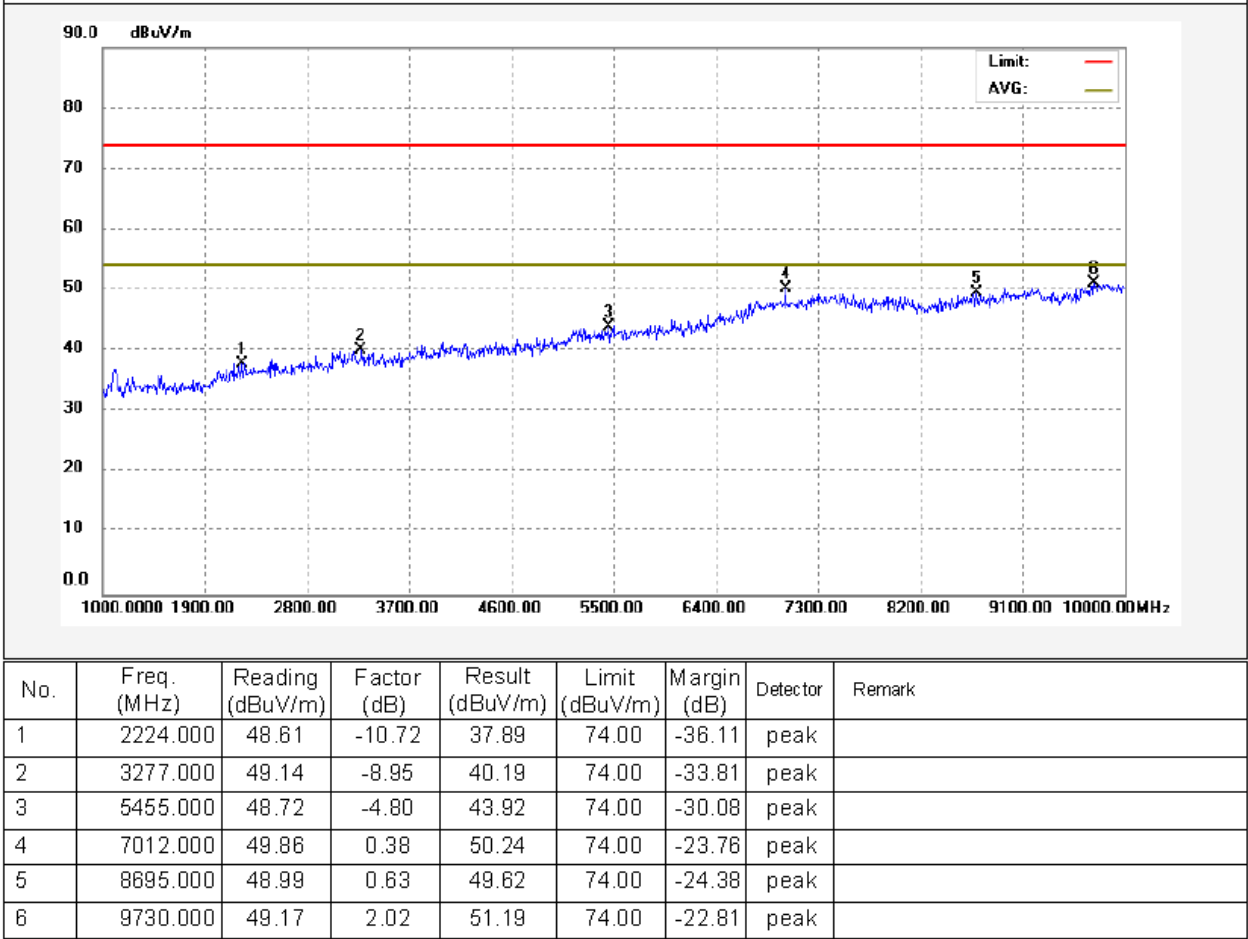
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1   | 3088.000    | 49.77            | -9.27       | 40.50           | 74.00          | -33.50      | peak     |        |
| 2   | 4510.000    | 49.10            | -7.28       | 41.82           | 74.00          | -32.18      | peak     |        |
| 3   | 5959.000    | 49.96            | -4.14       | 45.82           | 74.00          | -28.18      | peak     |        |
| 4   | 7390.000    | 49.23            | 0.83        | 50.06           | 74.00          | -23.94      | peak     |        |
| 5   | 8641.000    | 49.20            | 0.49        | 49.69           | 74.00          | -24.31      | peak     |        |
| 6   | 9847.000    | 50.10            | 2.25        | 52.35           | 74.00          | -21.65      | peak     |        |

|               |           |           |          |
|---------------|-----------|-----------|----------|
| Test Channel: | 915.75MHz | Polarity: | Vertical |
|---------------|-----------|-----------|----------|

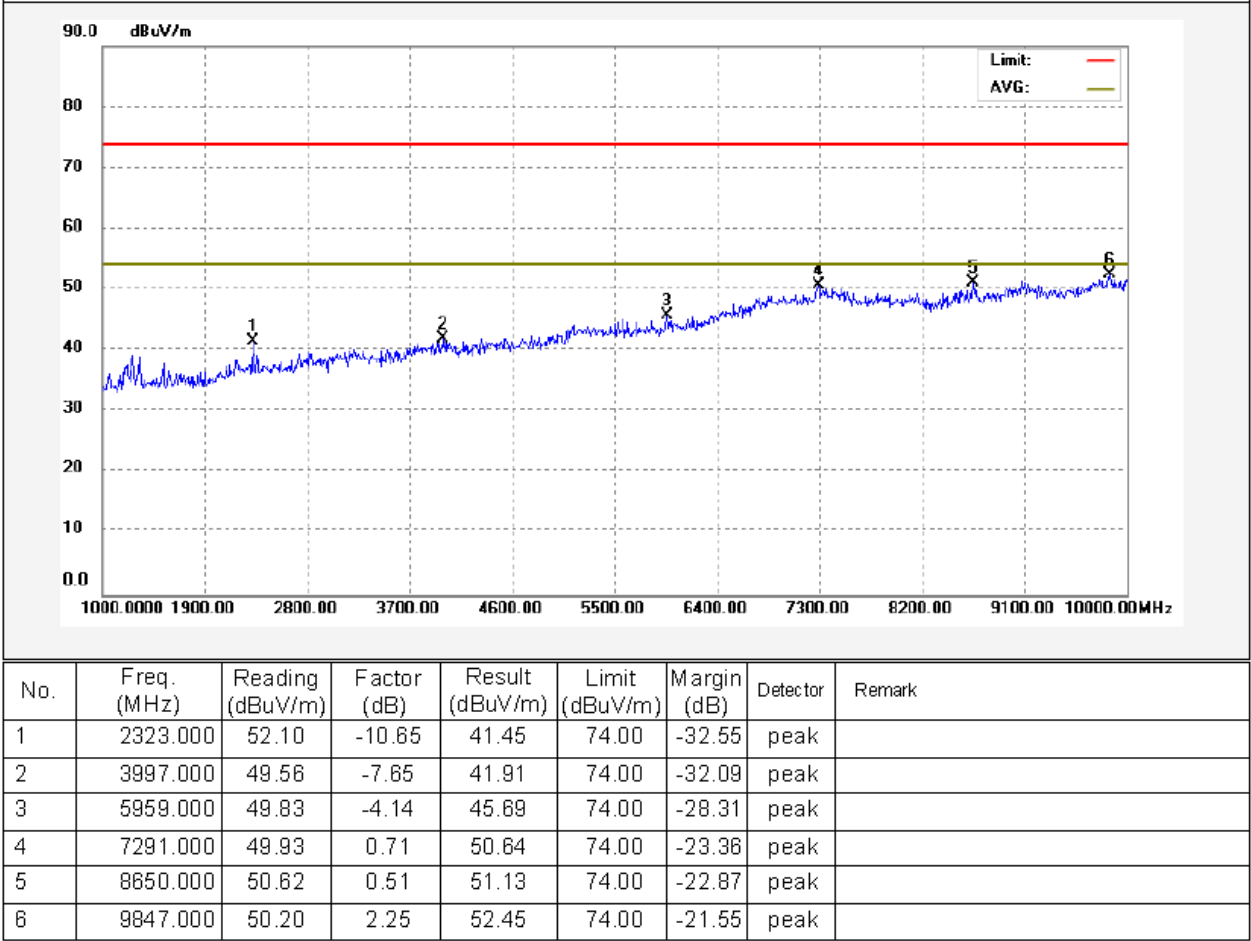


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1   | 2323.000    | 52.10            | -10.65      | 41.45           | 74.00          | -32.55      | peak     |        |
| 2   | 3997.000    | 49.56            | -7.65       | 41.91           | 74.00          | -32.09      | peak     |        |
| 3   | 5268.000    | 48.95            | -4.93       | 44.02           | 74.00          | -29.98      | peak     |        |
| 4   | 7480.000    | 49.29            | 0.73        | 50.02           | 74.00          | -23.98      | peak     |        |
| 5   | 8650.000    | 50.62            | 0.51        | 51.13           | 74.00          | -22.87      | peak     |        |
| 6   | 9847.000    | 50.20            | 2.25        | 52.45           | 74.00          | -21.55      | peak     |        |

|               |           |           |            |
|---------------|-----------|-----------|------------|
| Test Channel: | 927.25MHz | Polarity: | Horizontal |
|---------------|-----------|-----------|------------|



|               |           |           |          |
|---------------|-----------|-----------|----------|
| Test Channel: | 927.25MHz | Polarity: | Vertical |
|---------------|-----------|-----------|----------|



**Test Frequency: 8GHz~25GHz**

The measurements were more than 20 dB below the limit and not recorded

## 9 Conducted Spurious Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

ANSI C63.10-2020

Test Limit: Regulation 15.247 (d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Mode: Transmitting

### 9.1 Test Procedure

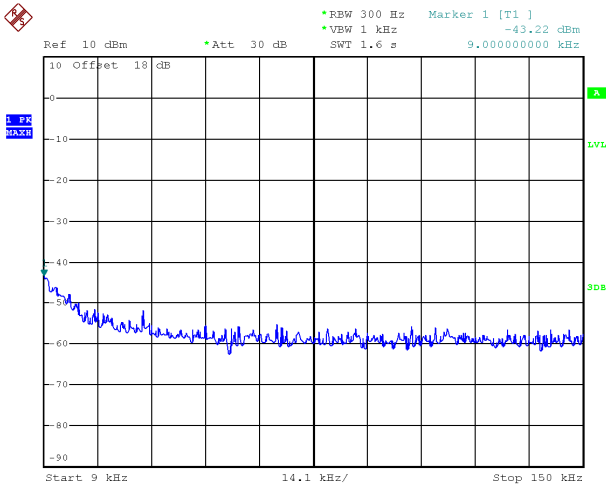
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

9.2 Test Result

Ant.1

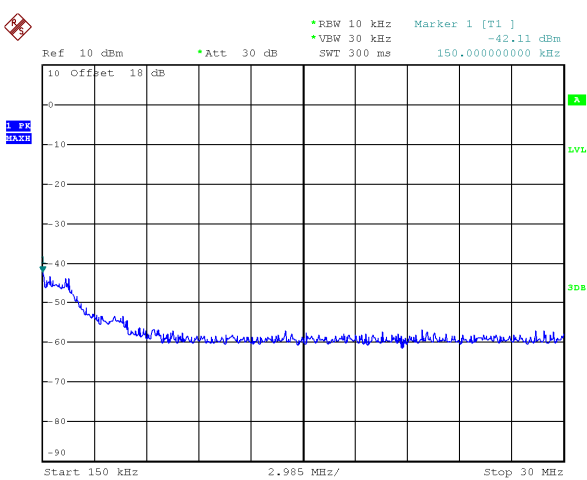
Low Channel

9kHz – 150kHz



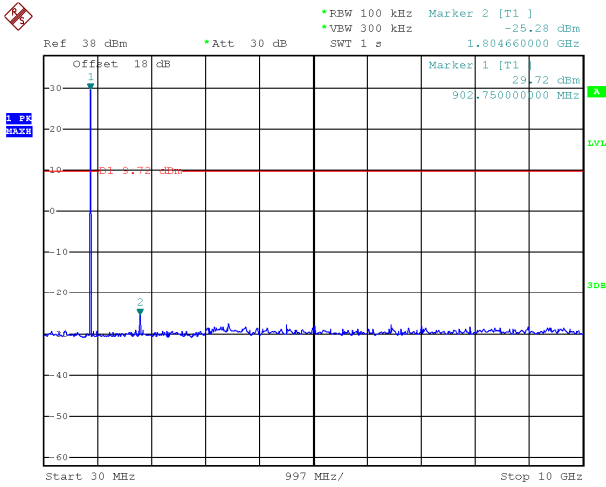
Date: 17.DEC.2025 20:47:45

150kHz – 30MHz



Date: 17.DEC.2025 20:49:50

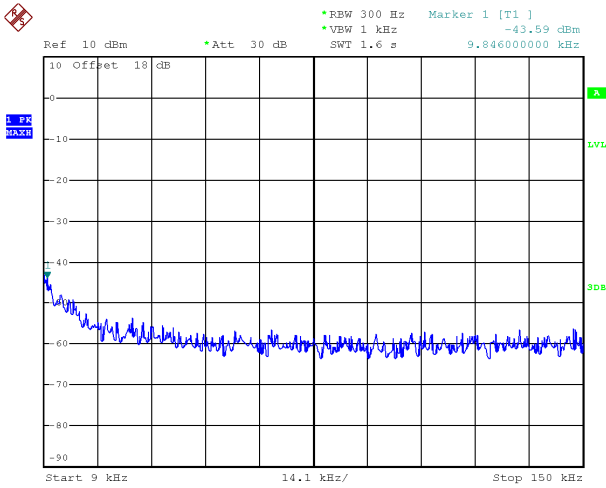
30MHz – 10GHz



Date: 17.DEC.2025 20:14:00

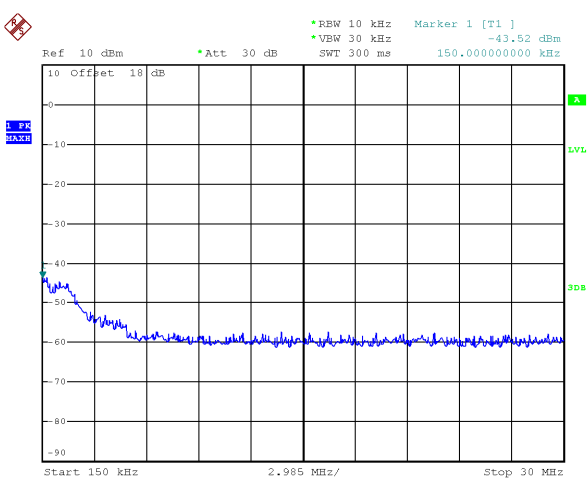
Middle Channel

9kHz – 150kHz



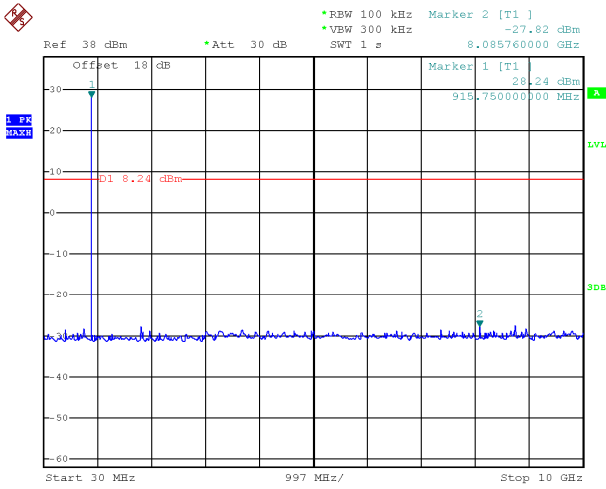
Date: 17.DEC.2025 20:48:01

150kHz – 30MHz



Date: 17.DEC.2025 20:50:06

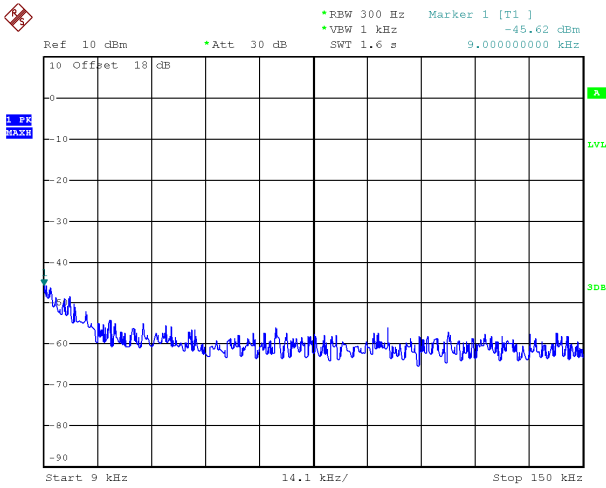
30MHz – 10GHz



Date: 17.DEC.2025 20:16:42

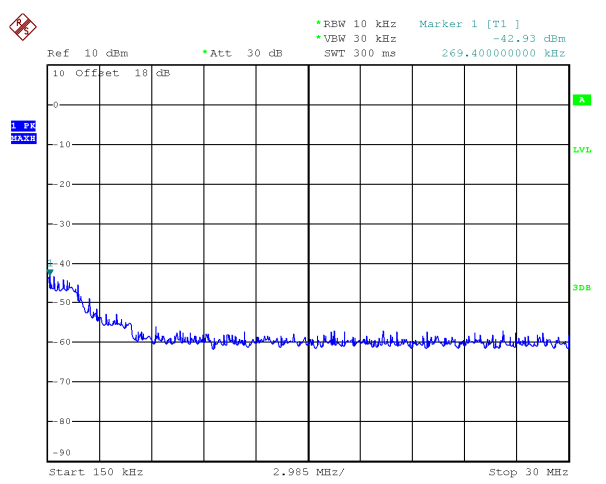
High Channel

9kHz – 150kHz



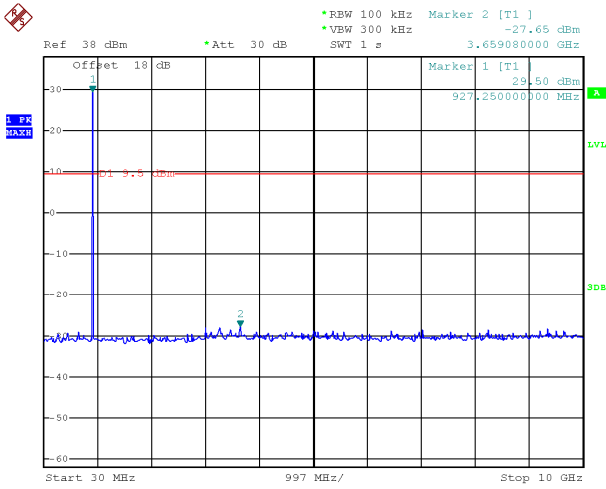
Date: 17.DEC.2025 20:48:14

150kHz – 30MHz



Date: 17.DEC.2025 20:50:18

30MHz – 10GHz

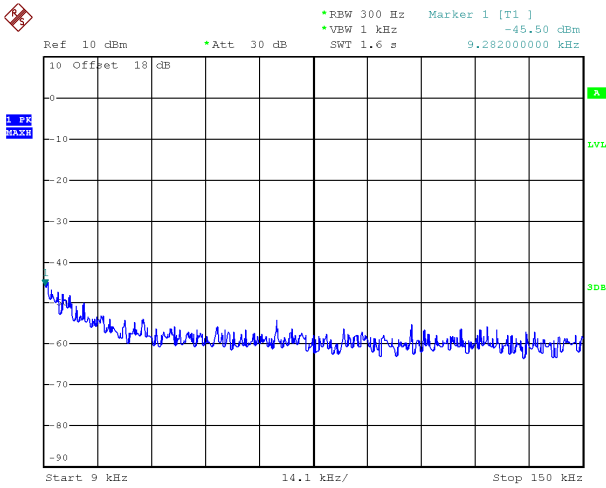


Date: 17.DEC.2025 20:23:02

Ant.2

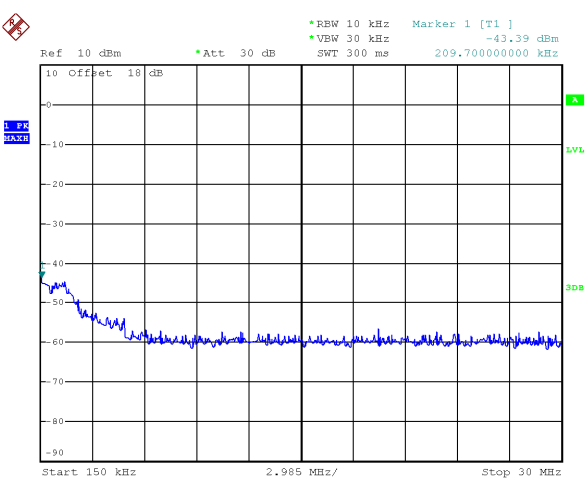
9kHz – 150kHz

Low Channel



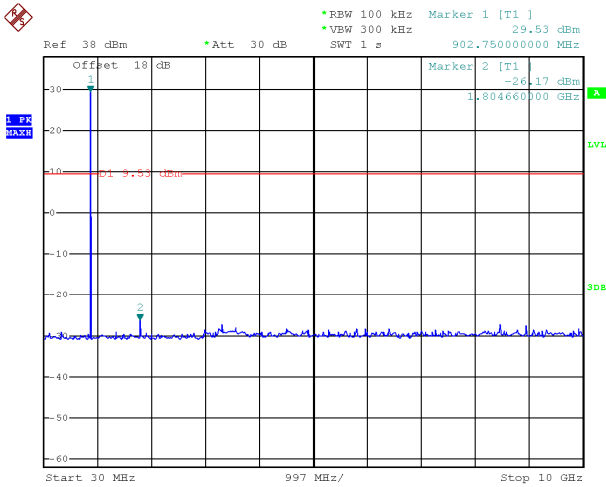
Date: 17.DEC.2025 20:48:35

150kHz – 30MHz



Date: 17.DEC.2025 20:50:34

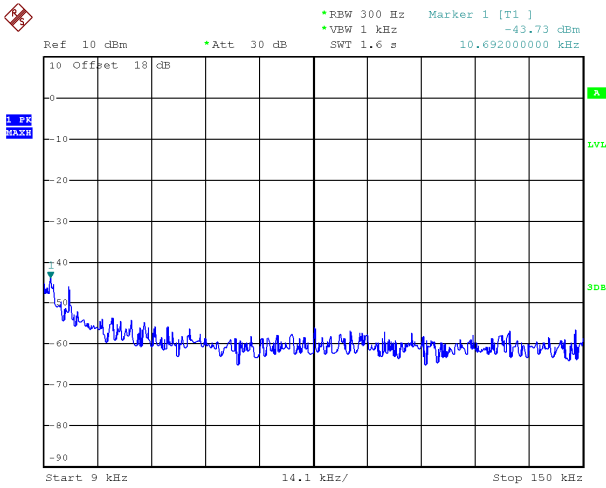
30MHz – 10GHz



Date: 17.DEC.2025 20:29:43

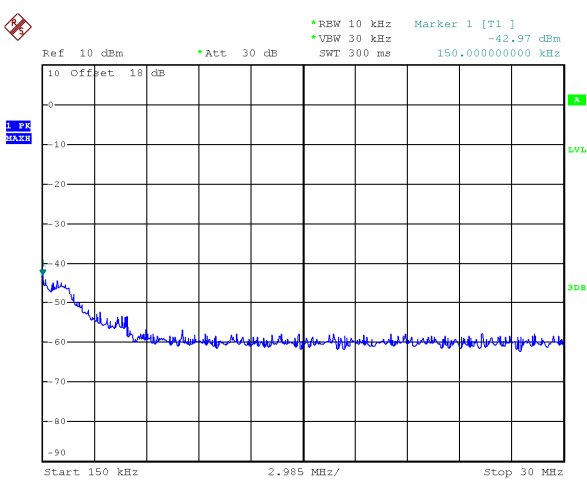
Middle Channel

9kHz – 150kHz



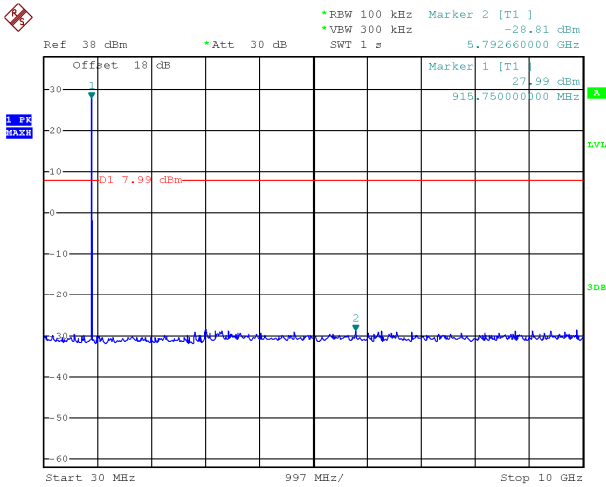
Date: 17.DEC.2025 20:48:49

150kHz – 30MHz



Date: 17.DEC.2025 20:50:46

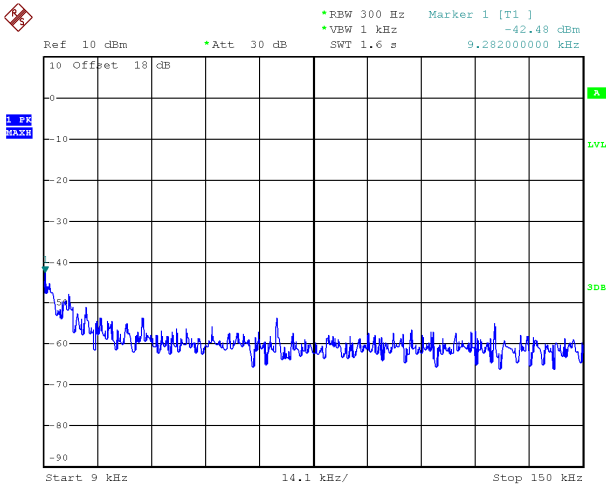
30MHz – 10GHz



Date: 17.DEC.2025 20:17:20

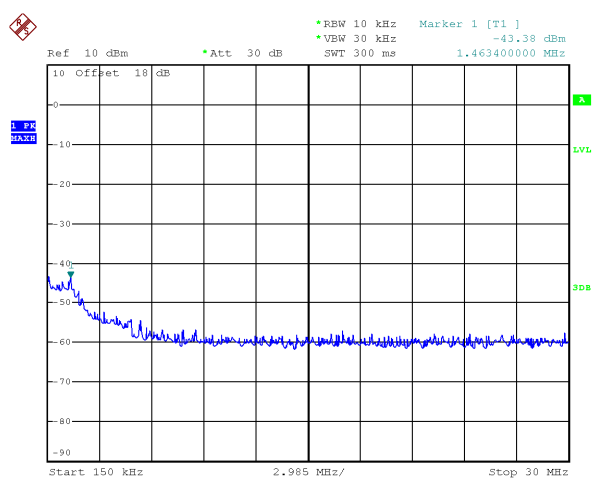
High Channel

9kHz – 150kHz



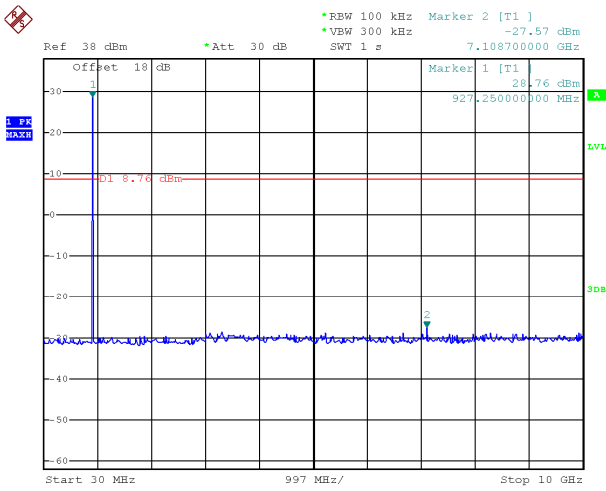
Date: 17.DEC.2025 20:49:01

150kHz – 30MHz



Date: 17.DEC.2025 20:50:59

30MHz – 10GHz



Date: 17.DEC.2025 20:23:49

## 10 Band Edge Measurement

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

ANSI C63.10-2020

Test Limit: Regulation 15.247 (d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

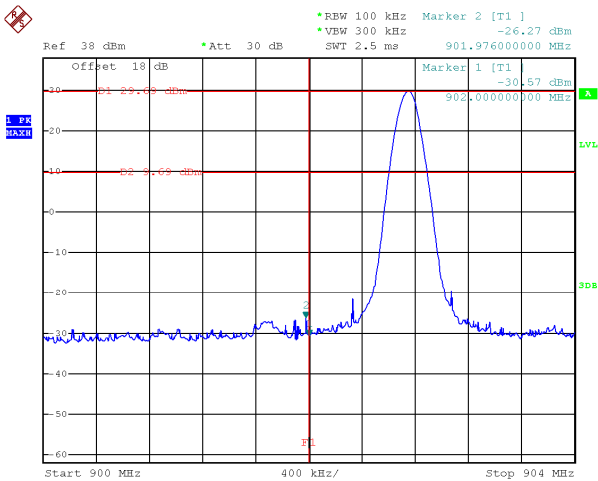
Test Mode: Transmitting

### 10.1 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

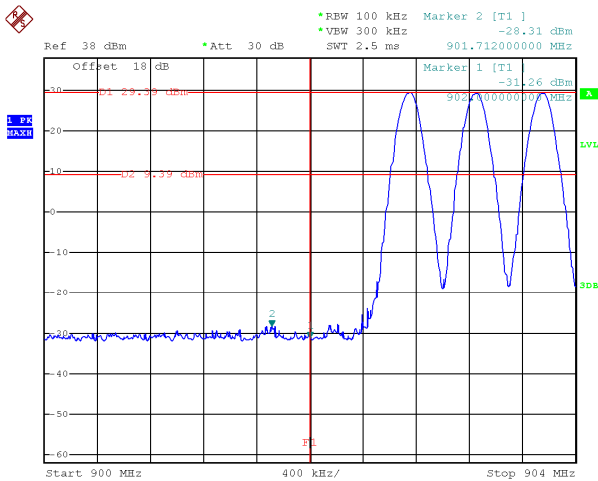
10.2 Test Result

Ant.1  
Transmitting Band edge-left side



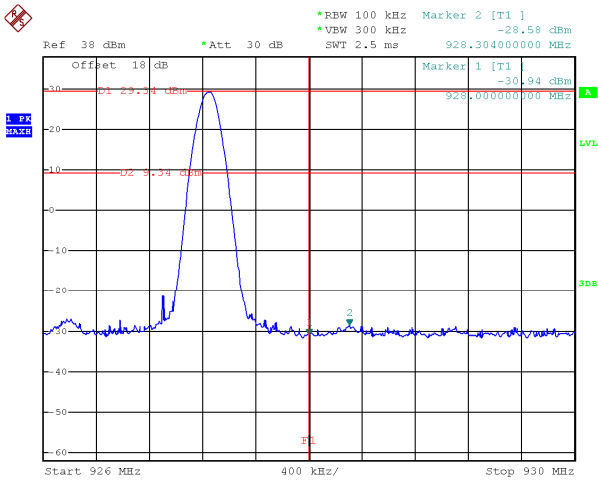
Date: 17.DEC.2025 19:53:03

Hopping Band edge-left side



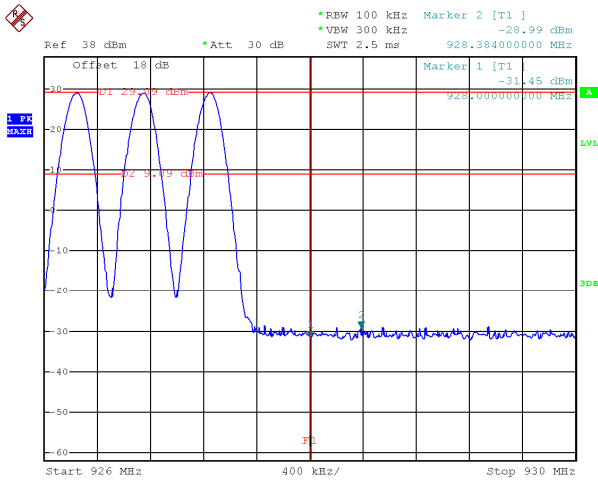
Date: 17.DEC.2025 19:54:41

Transmitting Band edge-right side



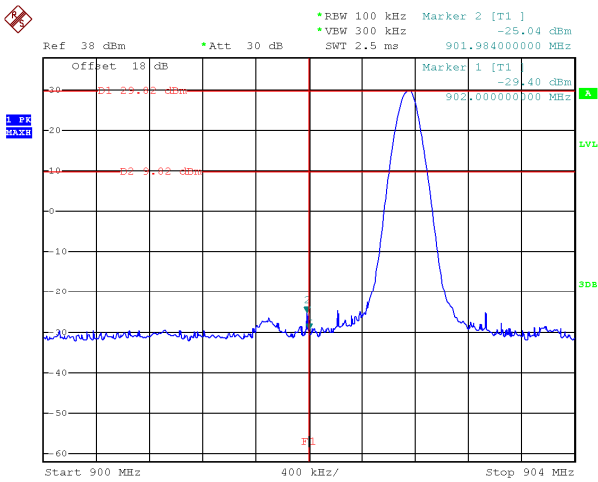
Date: 17.DEC.2025 20:01:05

Hopping Band edge-right side



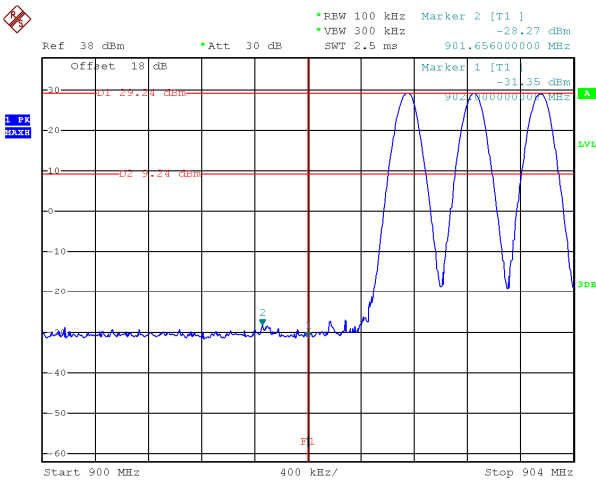
Date: 17.DEC.2025 20:03:00

Ant.2  
Transmitting Band edge-left side



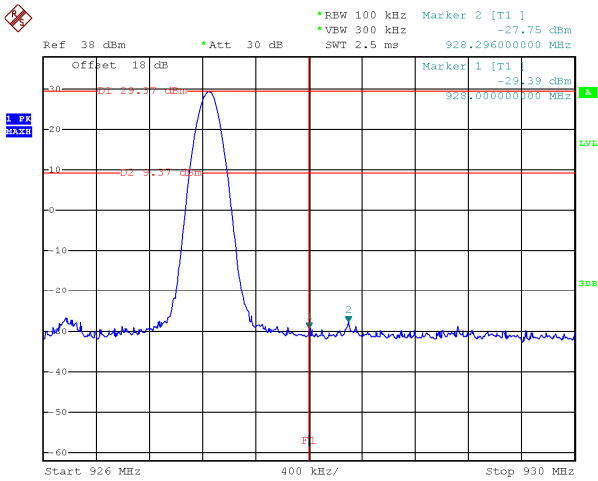
Date: 17.DEC.2025 19:51:25

Hopping Band edge-left side



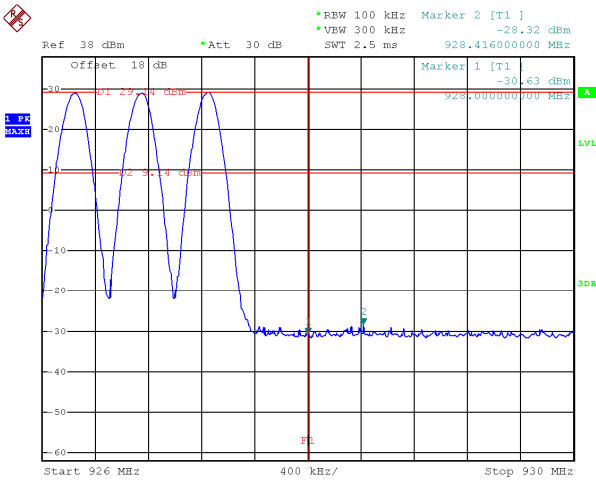
Date: 17.DEC.2025 19:48:05

Transmitting Band edge-right side



Date: 17.DEC.2025 20:08:41

Hopping Band edge-right side



Date: 17.DEC.2025 20:07:34

## 11 20dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

ANSI C63.10:2020

Test Limit: §15.247(a)(i)

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Mode: Transmitting

### 11.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 30kHz, VBW = 100kHz

### 11.2 Test Result

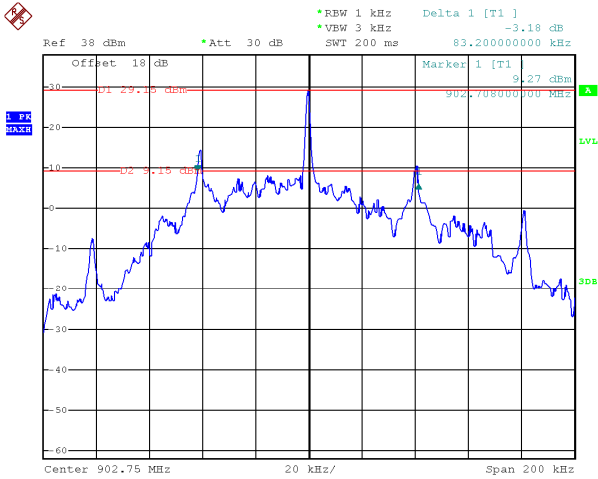
| Description | Test Channel | 20 dB Bandwidth<br>MHz | 99% Bandwidth<br>MHz |
|-------------|--------------|------------------------|----------------------|
| ANT 1       | Low          | 0.083                  | 0.099                |
|             | Middle       | 0.083                  | 0.097                |
|             | High         | 0.083                  | 0.094                |
| ANT 2       | Low          | 0.083                  | 0.098                |
|             | Middle       | 0.083                  | 0.099                |
|             | High         | 0.083                  | 0.092                |

Test plots

20 dB Bandwidth

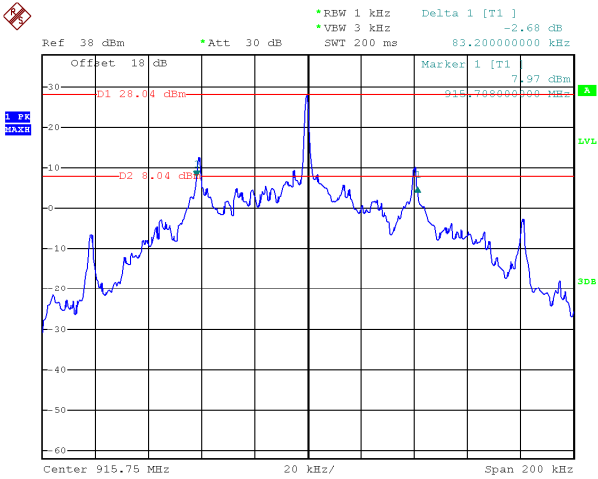
Ant.1

Low Channel



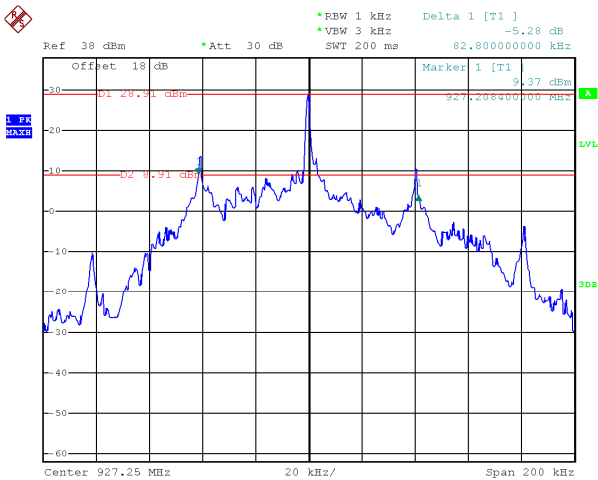
Date: 17.DEC.2025 18:46:02

Middle Channel



Date: 17.DEC.2025 18:47:17

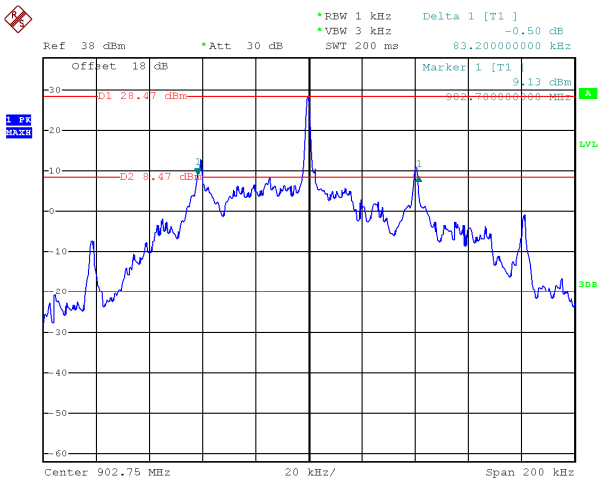
High Channel



Date: 17.DEC.2025 18:44:40

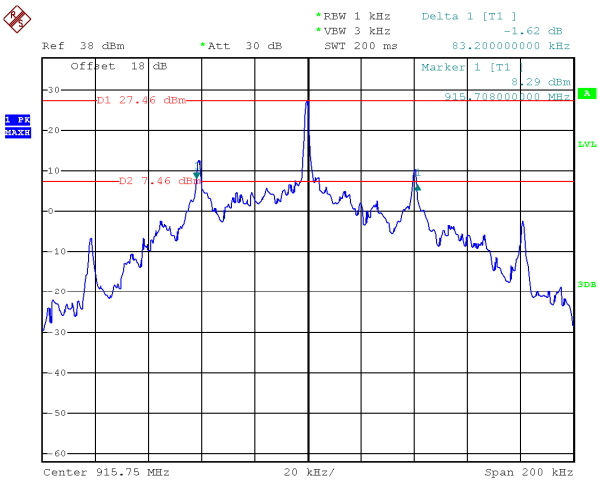
Ant.2

Low Channel



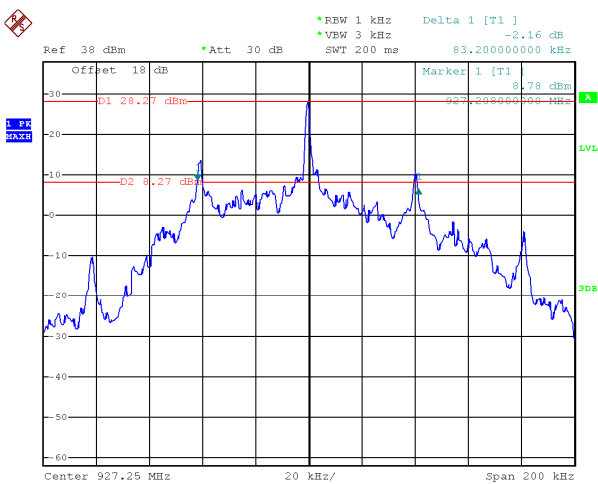
Date: 17.DEC.2025 18:39:58

Middle Channel



Date: 17.DEC.2025 18:41:36

High Channel

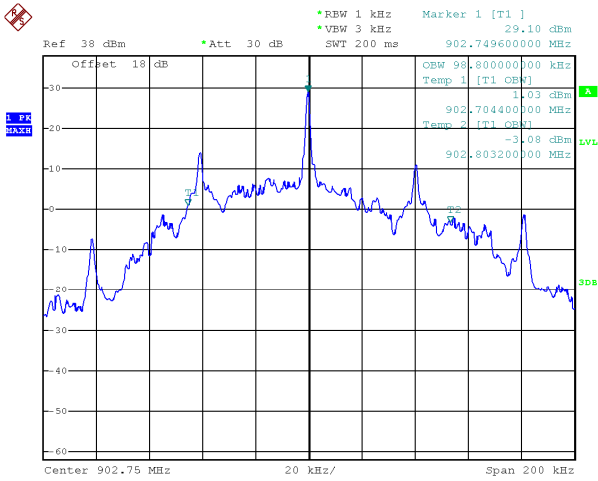


Date: 17.DEC.2025 18:42:52

99% Bandwidth

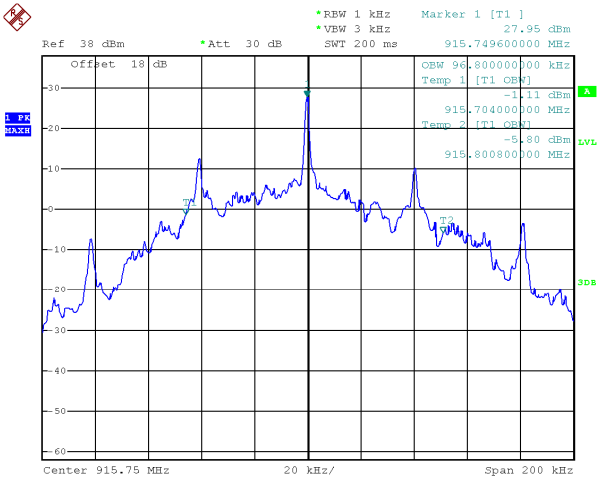
Ant.1

Low Channel



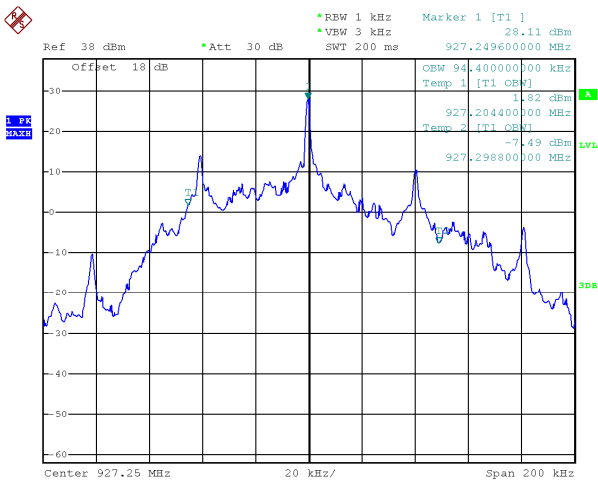
Date: 17.DEC.2025 18:23:18

Middle Channel



Date: 17.DEC.2025 18:21:44

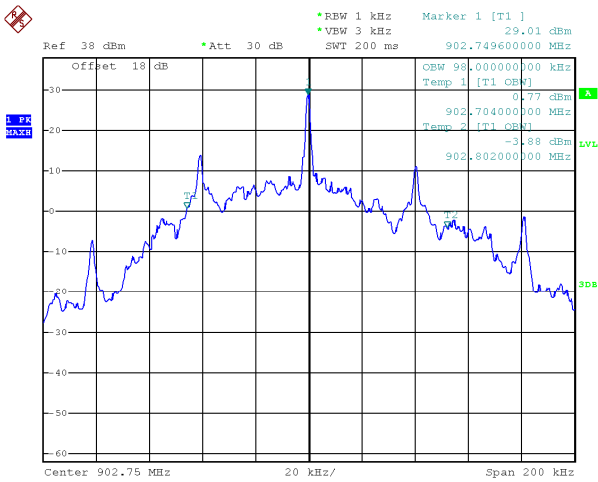
High Channel



Date: 17.DEC.2025 18:24:20

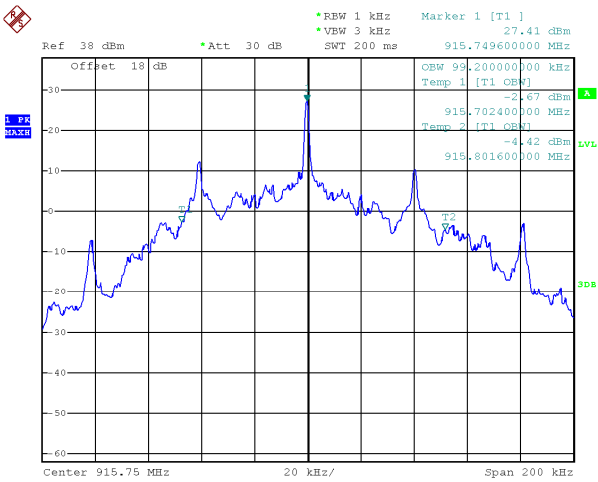
Ant.2

Low Channel



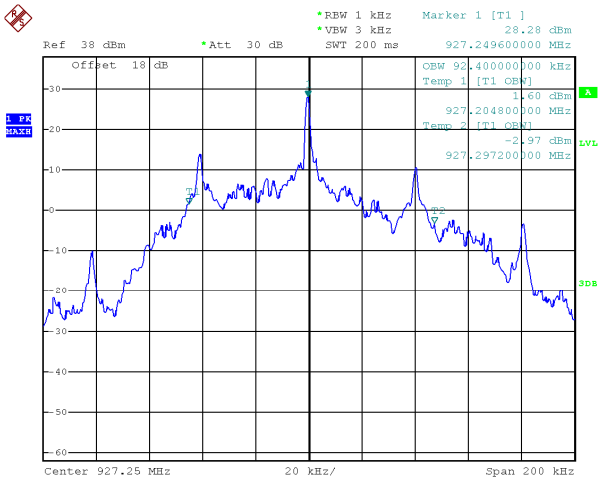
Date: 17.DEC.2025 18:27:48

Middle Channel



Date: 17.DEC.2025 18:29:55

High Channel



Date: 17.DEC.2025 18:25:53

## 12 Maximum Peak Output Power

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019  
ANSI C63.10:2020

Test Limit: §15.247(b) (2)

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

Test Mode: Transmitting

### 12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer:
  - a) Use the following spectrum analyzer settings:
    - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
    - 2) RBW  $\geq$  20 dB bandwidth of the emission being measured.
    - 3) VBW  $\geq$  RBW.
    - 4) Sweep: Auto.
    - 5) Detector function: Peak.
    - 6) Trace: Max hold.
  - b) Allow trace to stabilize.
  - c) Use the marker-to-peak function to set the marker to the peak of the emission.
  - d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
  - e) A plot of the test results and setup description shall be included in the test report.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

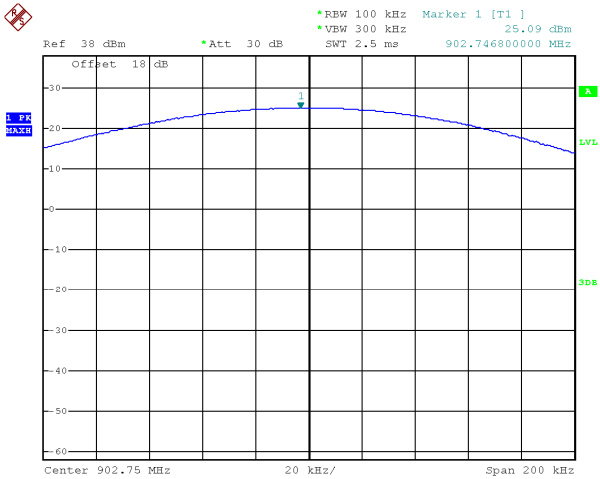
**12.2 Test Result**

| Description | Test Channel | Output Power (dBm) | Limit (dBm) |
|-------------|--------------|--------------------|-------------|
| ANT 1       | Low          | 25.09              | 30          |
|             | Middle       | <b>25.39</b>       | 30          |
|             | High         | 24.95              | 30          |
| ANT 2       | Low          | 25.14              | 30          |
|             | Middle       | <b>25.50</b>       | 30          |
|             | High         | 24.89              | 30          |

Test plots

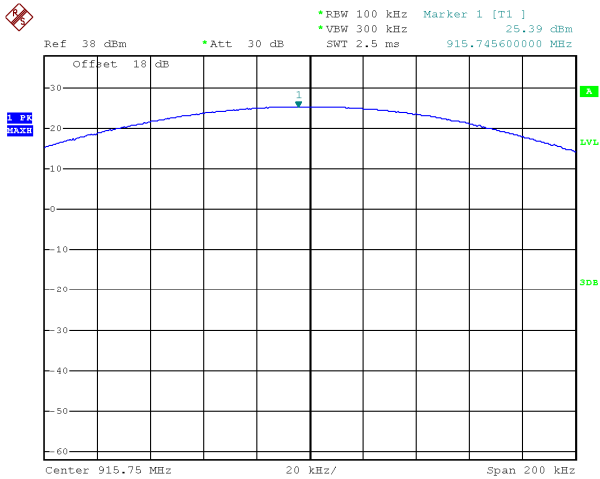
Ant.1

Low Channel



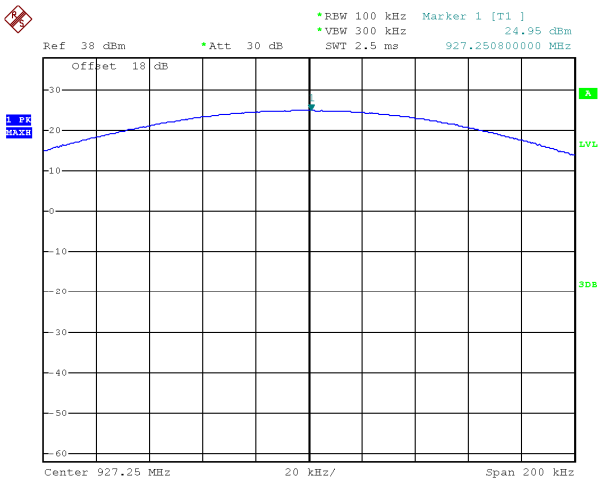
Date: 4.JAN.2026 09:23:56

Middle Channel



Date: 4.JAN.2026 09:25:26

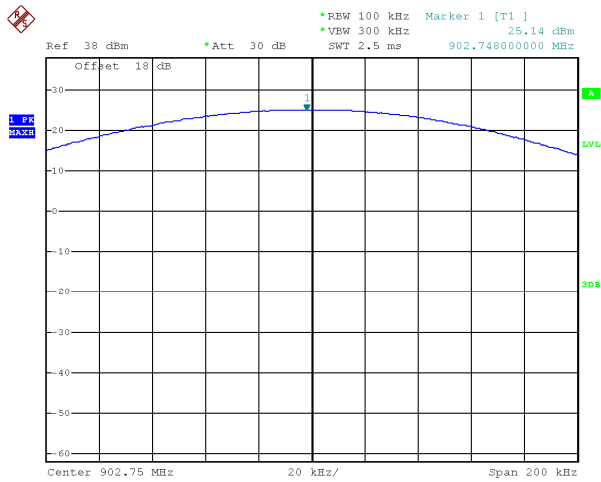
High Channel



Date: 4.JAN.2026 09:26:36

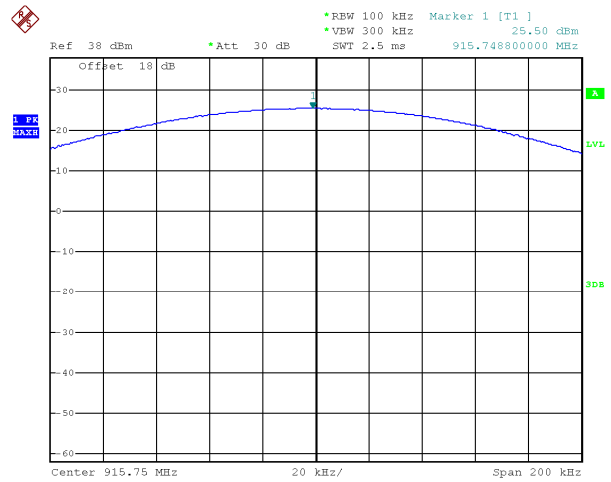
**Ant.2**

Low Channel



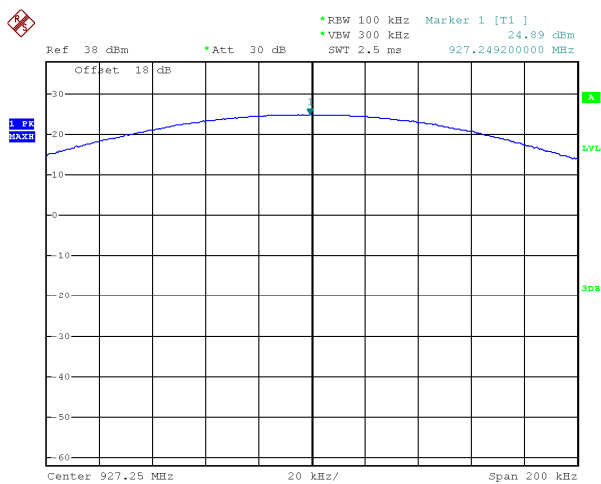
Date: 4.JAN.2026 09:17:38

### Middle Channel



Date: 4.JAN.2026 09:20:08

## High Channel



Date: 4.JAN.2026 09:21:37

## 13 Hopping Channel Separation

|                   |                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC 47CFR Part 15 Section 15.247                                                                                                                                                                 |
| Test Method:      | KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019<br>ANSI C63.10:2020                                                                                                                    |
| Test Limit:       | §15.247(a) (1)<br>Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. |
| Test Mode:        | Test in hopping transmitting operating mode.                                                                                                                                                     |

### 13.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer:
  - a) Span: Wide enough to capture the peaks of two adjacent channels.
  - b) 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.
  - c) Video (or average) bandwidth (VBW)  $\geq$  RBW.
  - d) Sweep: Auto.
  - e) Detector function: Peak.
  - f) Trace: Max hold.
  - g) Allow the trace to stabilize.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section  
Submit this plot.

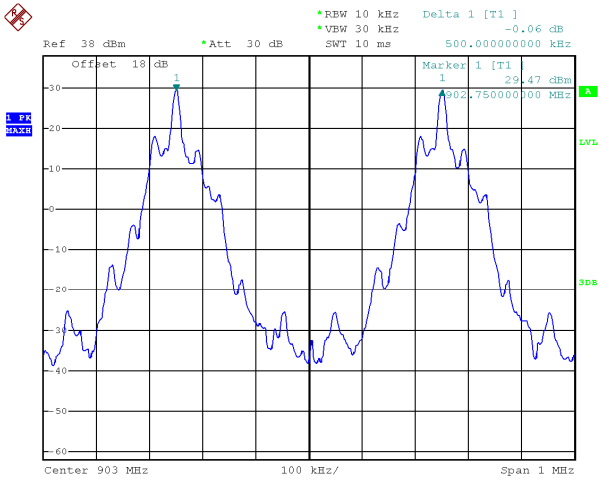
**13.2 Test Result**

| Description | Test Channel | Separation (kHz) | Limit (kHz) | Result |
|-------------|--------------|------------------|-------------|--------|
| ANT 1       | Low          | 500              | $\geq 83$   | PASS   |
|             | Middle       | 500              | $\geq 83$   | PASS   |
|             | High         | 500              | $\geq 83$   | PASS   |
| ANT 2       | Low          | 500              | $\geq 83$   | PASS   |
|             | Middle       | 500              | $\geq 83$   | PASS   |
|             | High         | 500              | $\geq 83$   | PASS   |

Test plots

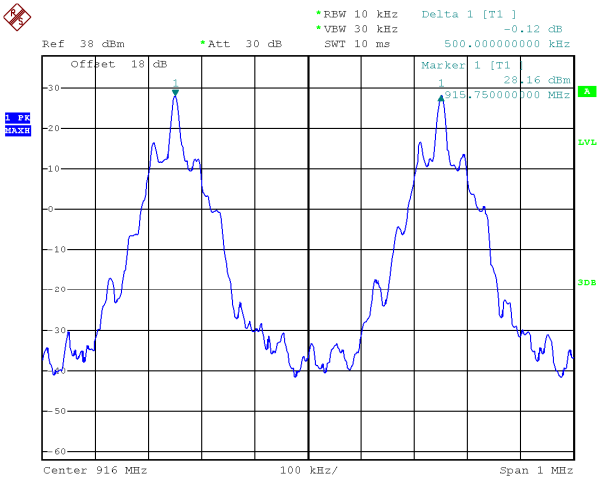
Ant.1

Low Channel



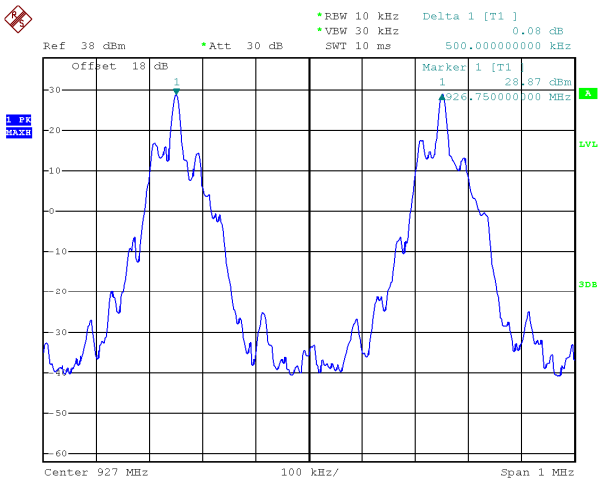
Date: 17.DEC.2025 19:35:54

Middle Channel



Date: 17.DEC.2025 19:36:56

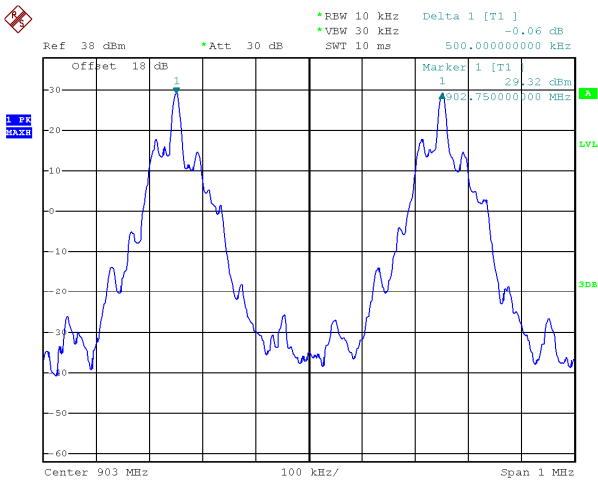
High Channel



Date: 17.DEC.2025 19:37:55

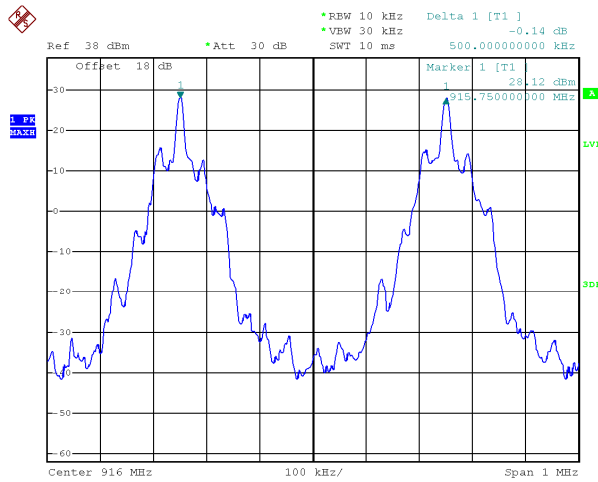
Ant.2

Low Channel



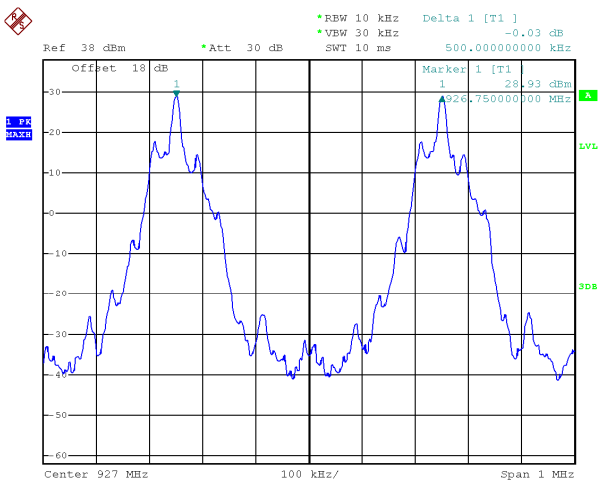
Date: 17.DEC.2025 19:39:42

Middle Channel



Date: 17.DEC.2025 19:40:14

High Channel



Date: 17.DEC.2025 19:38:58

## 14 Number of Hopping Frequency

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC 47CFR Part 15 Section 15.247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Method:      | KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                   | ANSI C63.10:2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Limit:       | §15.247(a) (i)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   | For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz. |
| Test Mode:        | Test in hopping transmitting operating mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### 14.1 Test Procedure

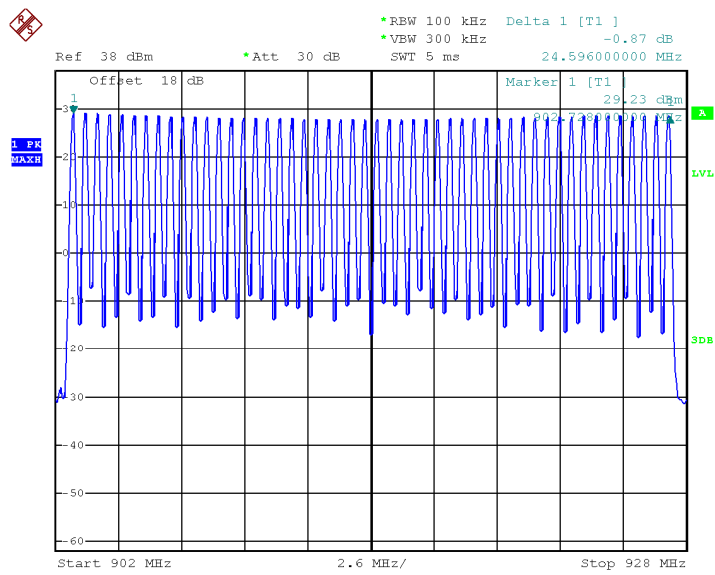
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer:
  - a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
  - b) 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.
  - c) VBW  $\geq$  RBW.
  - d) Sweep: Auto.
  - e) Detector function: Peak.
  - f) Trace: Max hold.
  - g) Allow the trace to stabilize..
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

### 14.2 Test Result

| Description | Channels | Limit     | Result |
|-------------|----------|-----------|--------|
| Ant. 1      | 50       | $\geq 50$ | Pass   |
| Ant. 2      | 50       | $\geq 50$ | Pass   |

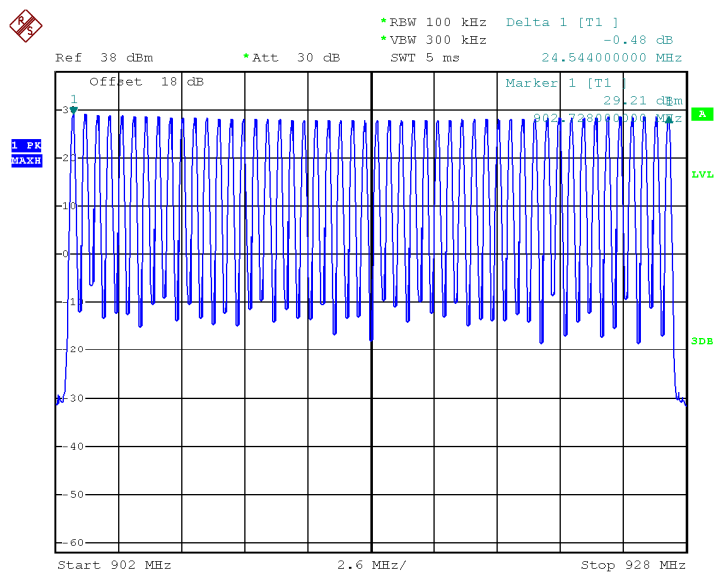
Test Plots:

Ant.1



Date: 17.DEC.2025 19:42:40

Ant.2



Date: 17.DEC.2025 19:43:26

## 15 Dwell Time

Test Requirement: FCC 47CFR Part 15 Section 15.247  
 Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019  
 ANSI C63.10:2020  
 Test Limit: §15.247(a) (i)

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Mode: Test in hopping transmitting operating mode.

### 15.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set spectrum analyzer span = 0Hz. Centred on a hopping channel;
3. Set RBW = 1MHz and VBW = 3MHz. Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT keep continue transmitting.
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). repeat this test for each variation.

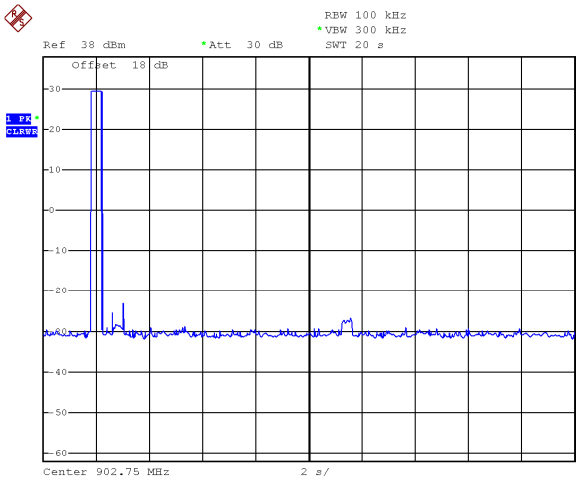
### 15.2 Test Result

| Description | Channel | Test period (s) | Pulse time(ms) | Dwell Time(s) | Limits(s) |
|-------------|---------|-----------------|----------------|---------------|-----------|
| ANT 1       | Low     | 20              | 397.4          | 0.3974        | 0.4       |
|             | middle  | 20              | 397.4          | 0.3974        | 0.4       |
|             | High    | 20              | 397.6          | 0.3976        | 0.4       |
| ANT 2       | Low     | 20              | 397.8          | 0.3978        | 0.4       |
|             | middle  | 20              | 397.8          | 0.3978        | 0.4       |
|             | High    | 20              | 397.8          | 0.3987        | 0.4       |

Test Plots

Ant.1

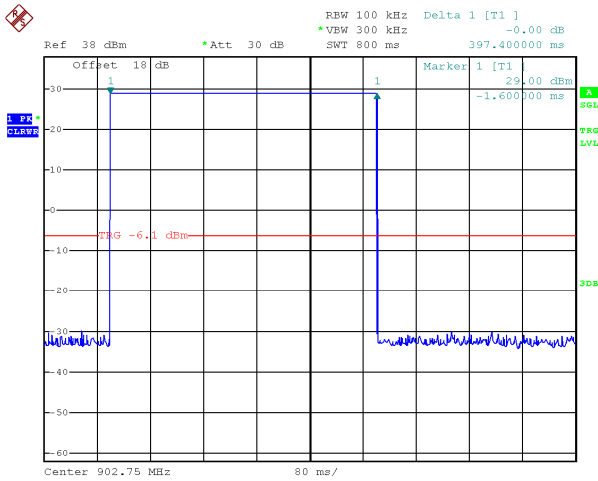
Test period



Date: 17.DEC.2025 19:21:40

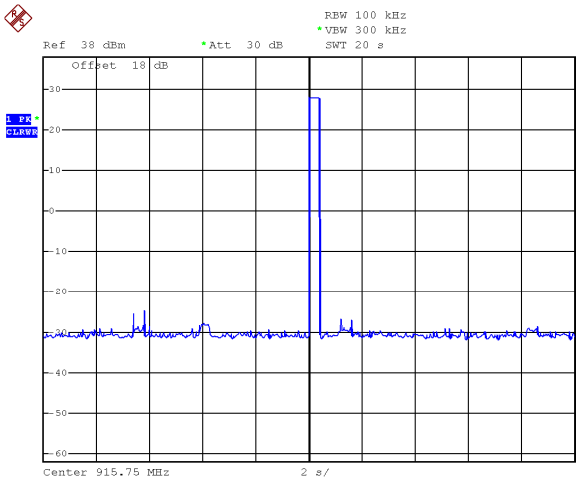
Low channel

Pulse time

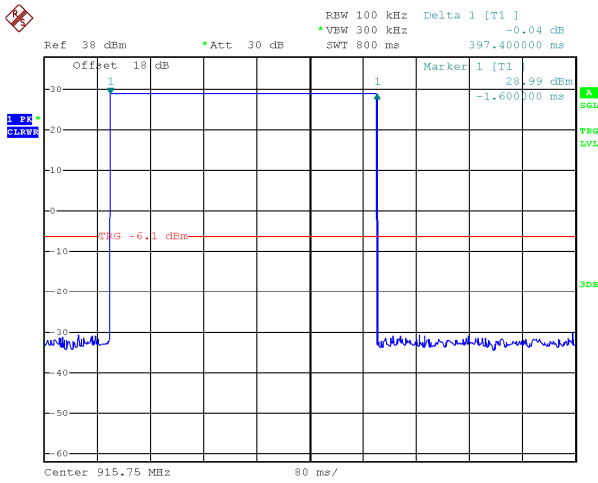


Date: 18.DEC.2025 09:17:23

Middle channel

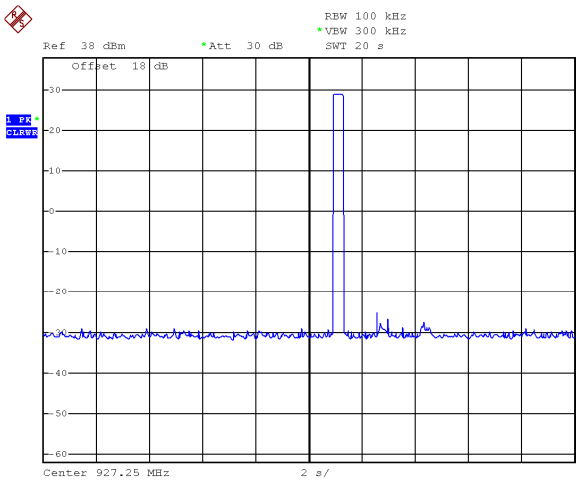


Date: 17.DEC.2025 19:24:36



Date: 18.DEC.2025 09:19:45

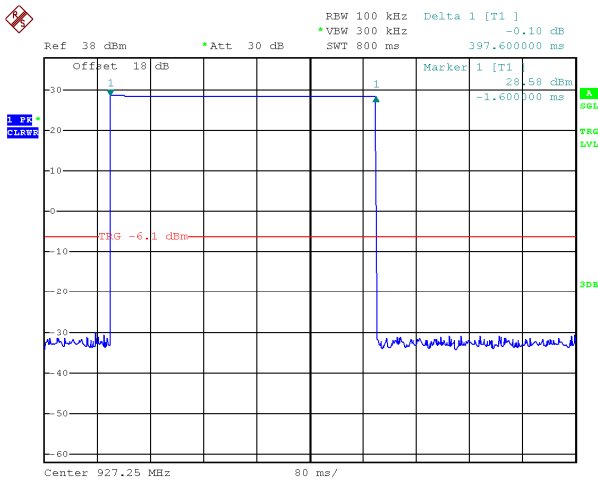
Test period



Date: 17.DEC.2025 19:27:22

High channel

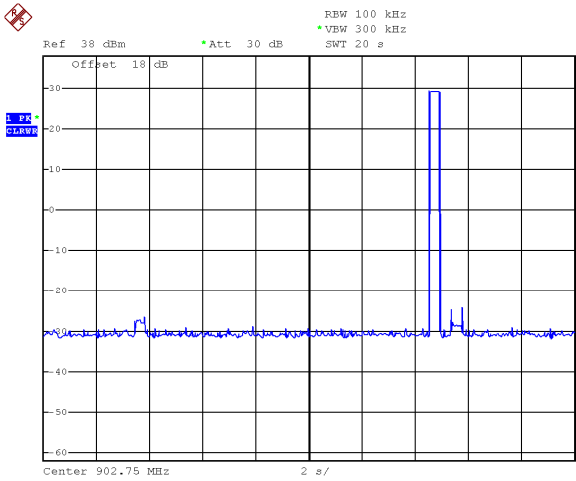
Pulse time



Date: 18.DEC.2025 09:15:48

Ant.2

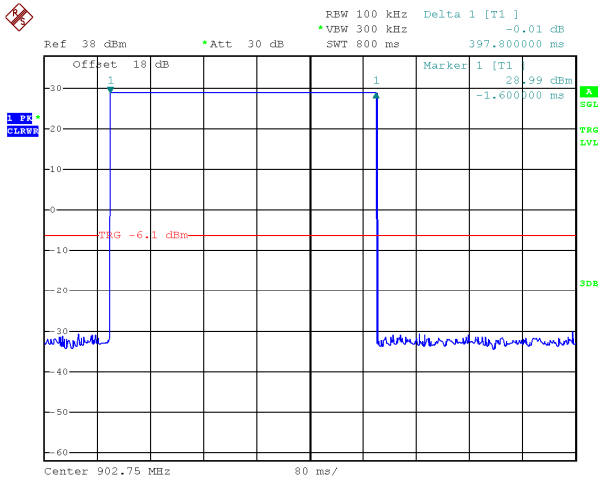
Test period



Date: 17.DEC.2025 19:06:19

Low channel

Pulse time

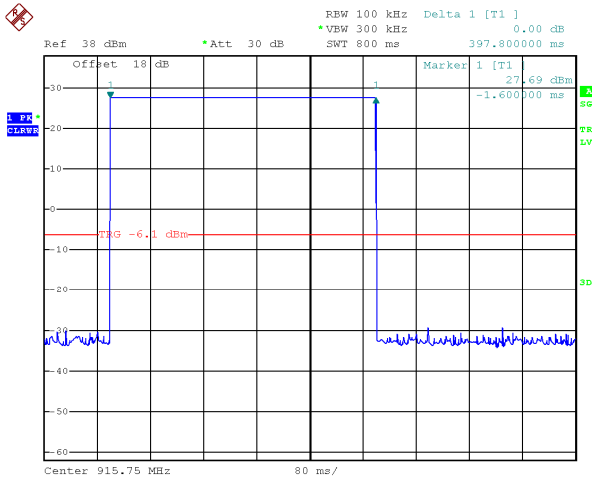
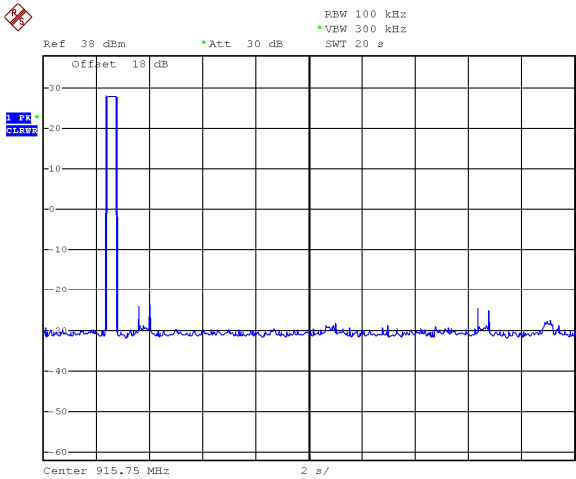


Date: 18.DEC.2025 09:18:14

Test period

Middle channel

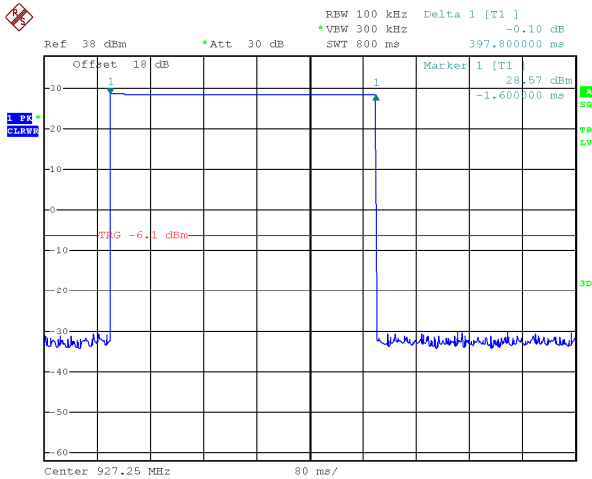
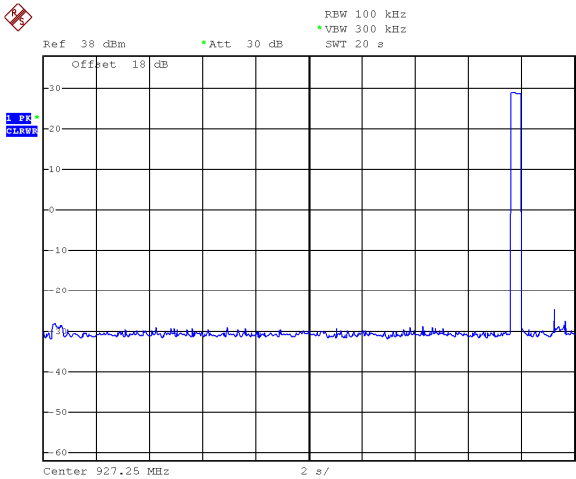
Pulse time



Date: 17.DEC.2025 19:09:23

Date: 18.DEC.2025 09:20:25

High channel



Date: 17.DEC.2025 19:11:53

Date: 18.DEC.2025 09:16:24

## **16 Antenna Requirement**

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has two external antennas, fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

## **17 RF Exposure**

Remark: refer to MPE test report: WTH25D11314999W003.

## **18 Photographs of test setup and EUT.**

Note: Please refer to appendix: Appendix- CUR-F20H-001-Photos.

=====End of Report=====