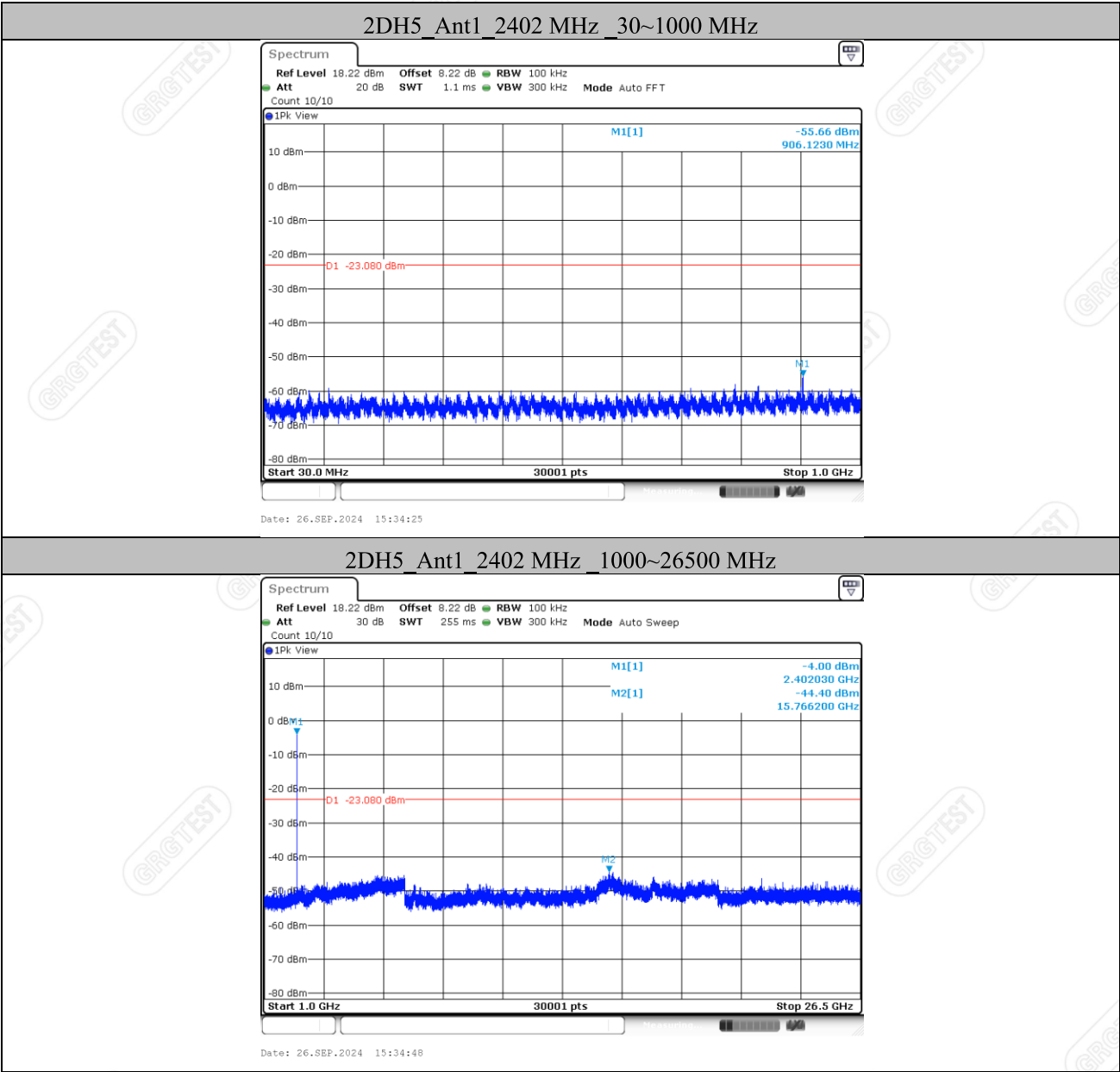
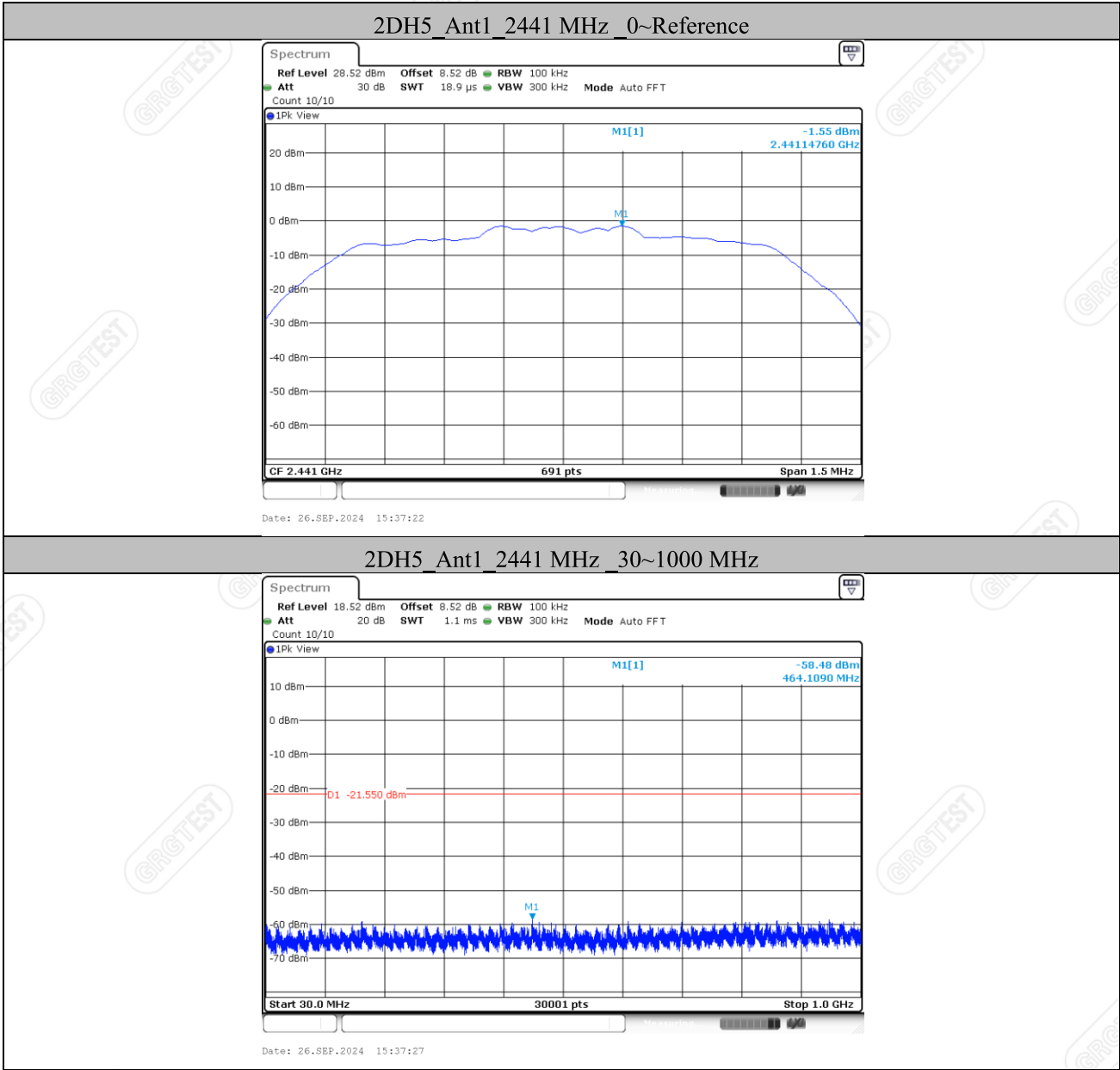
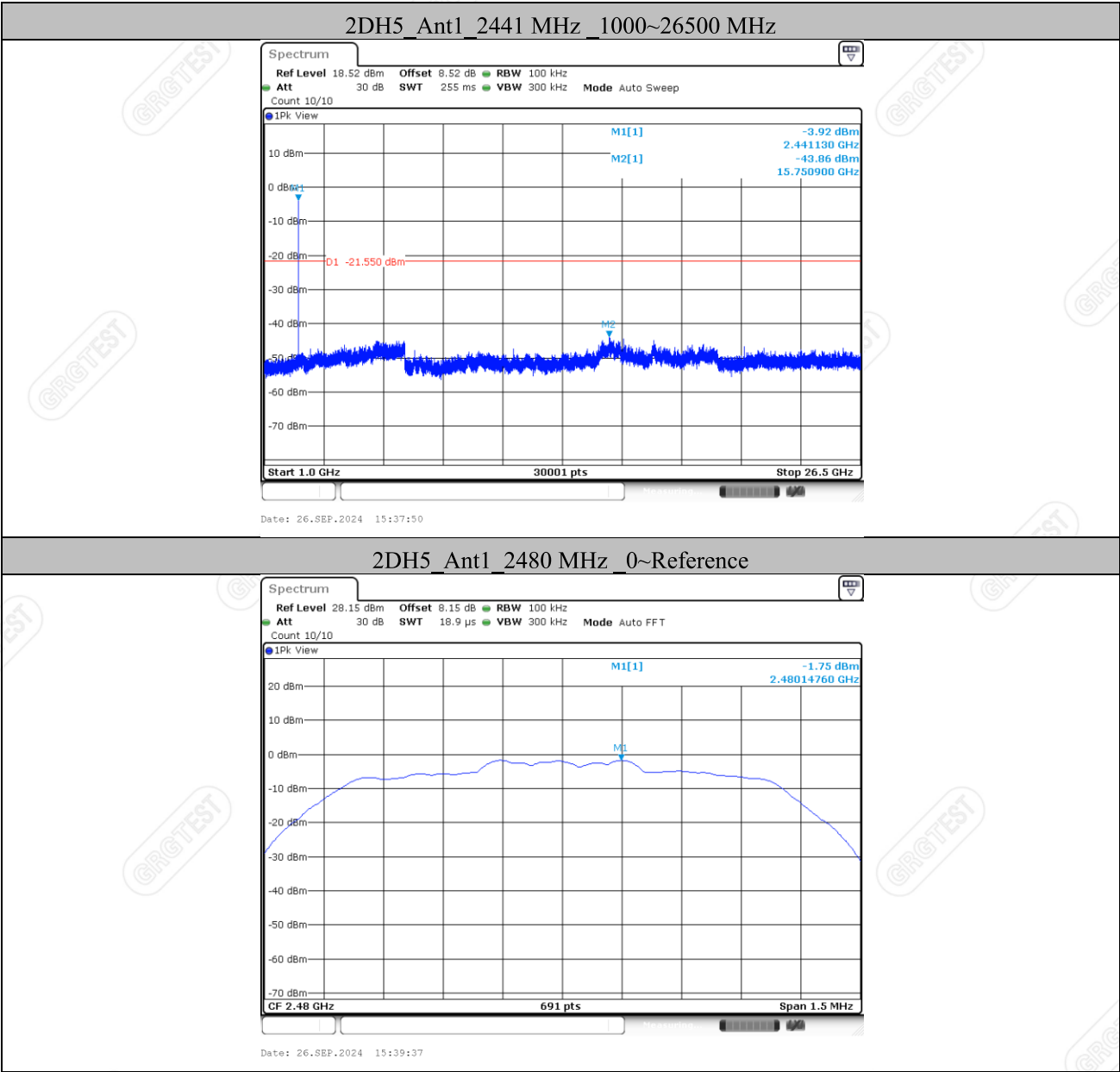
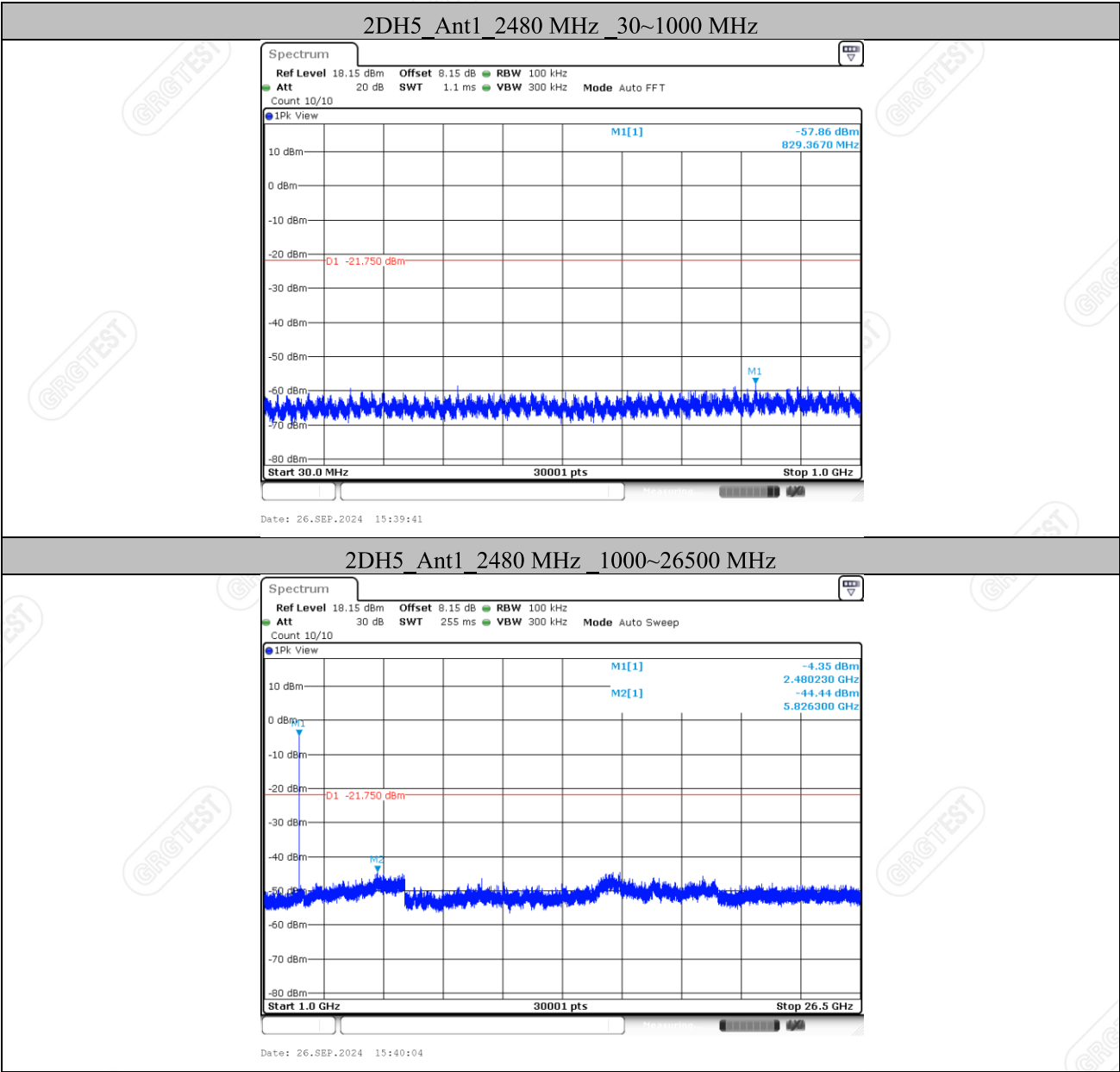
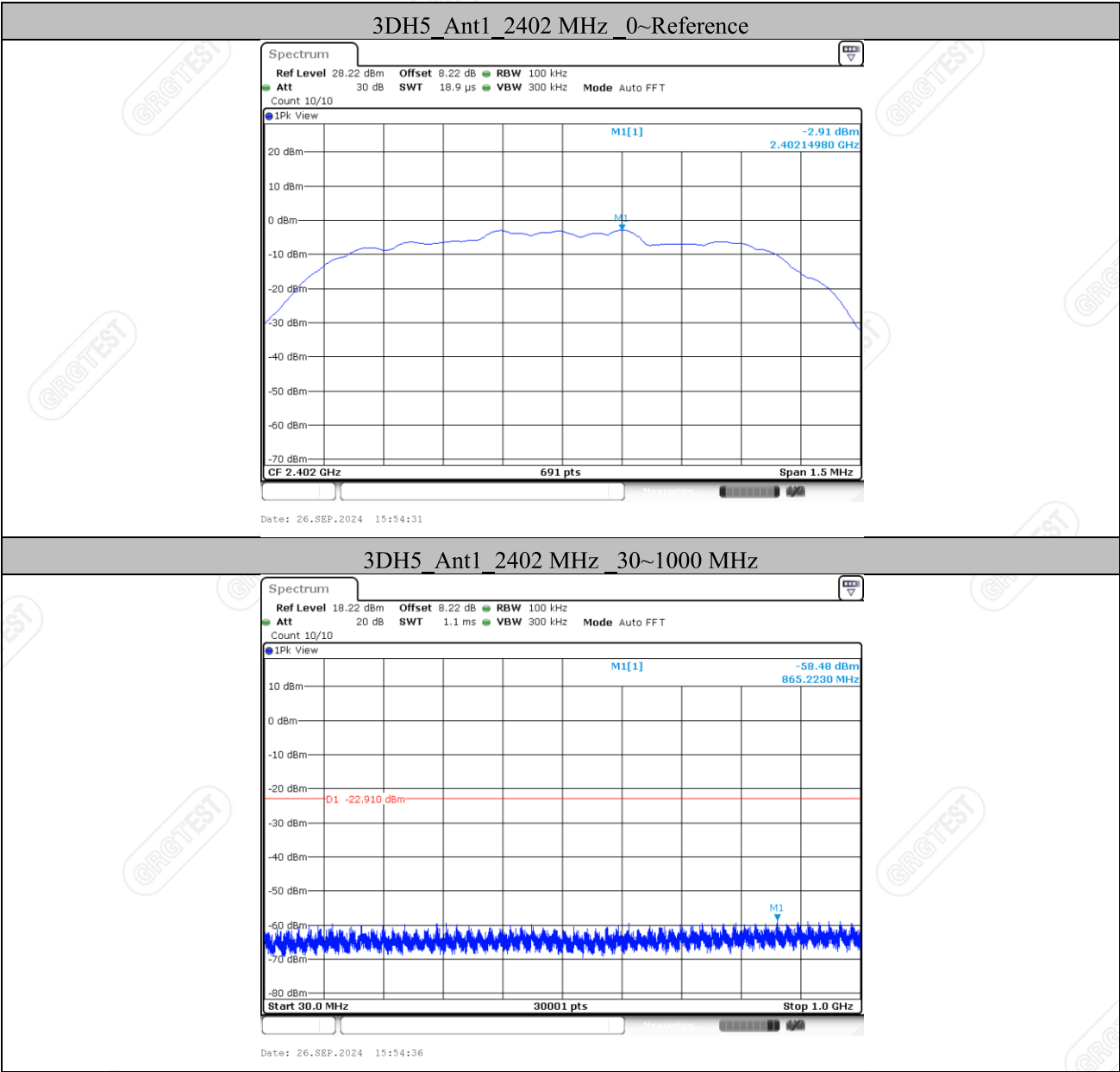


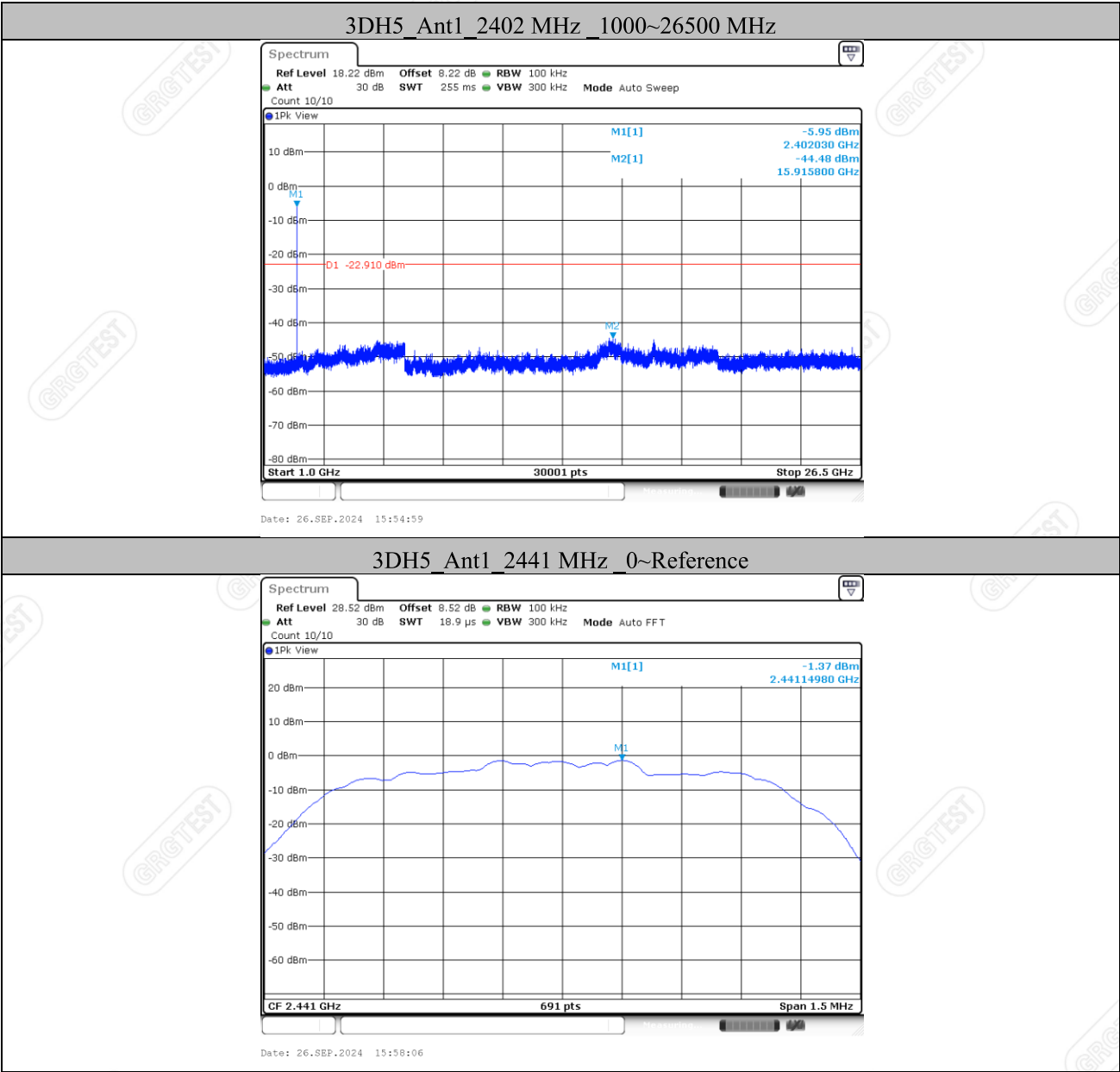


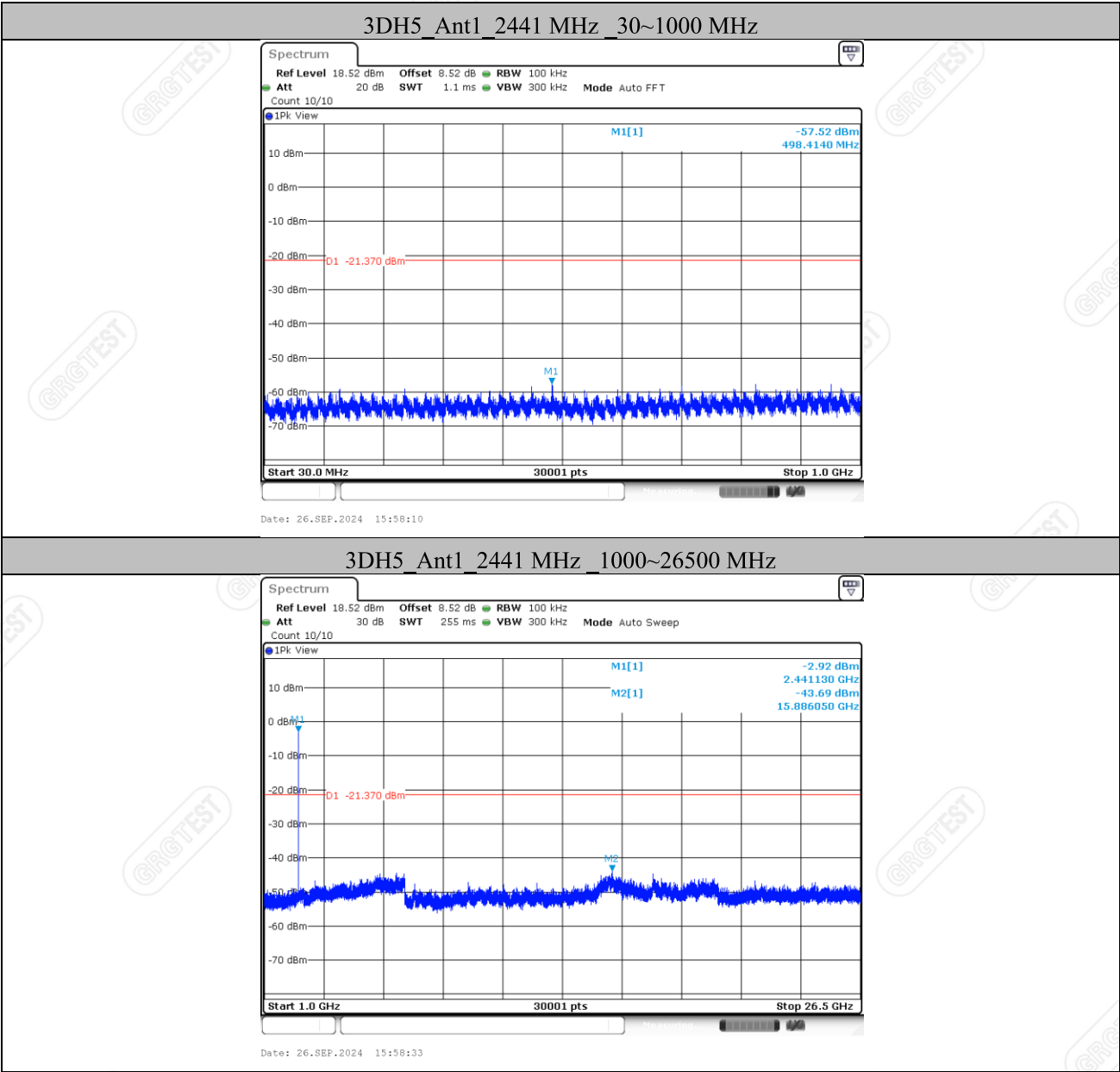


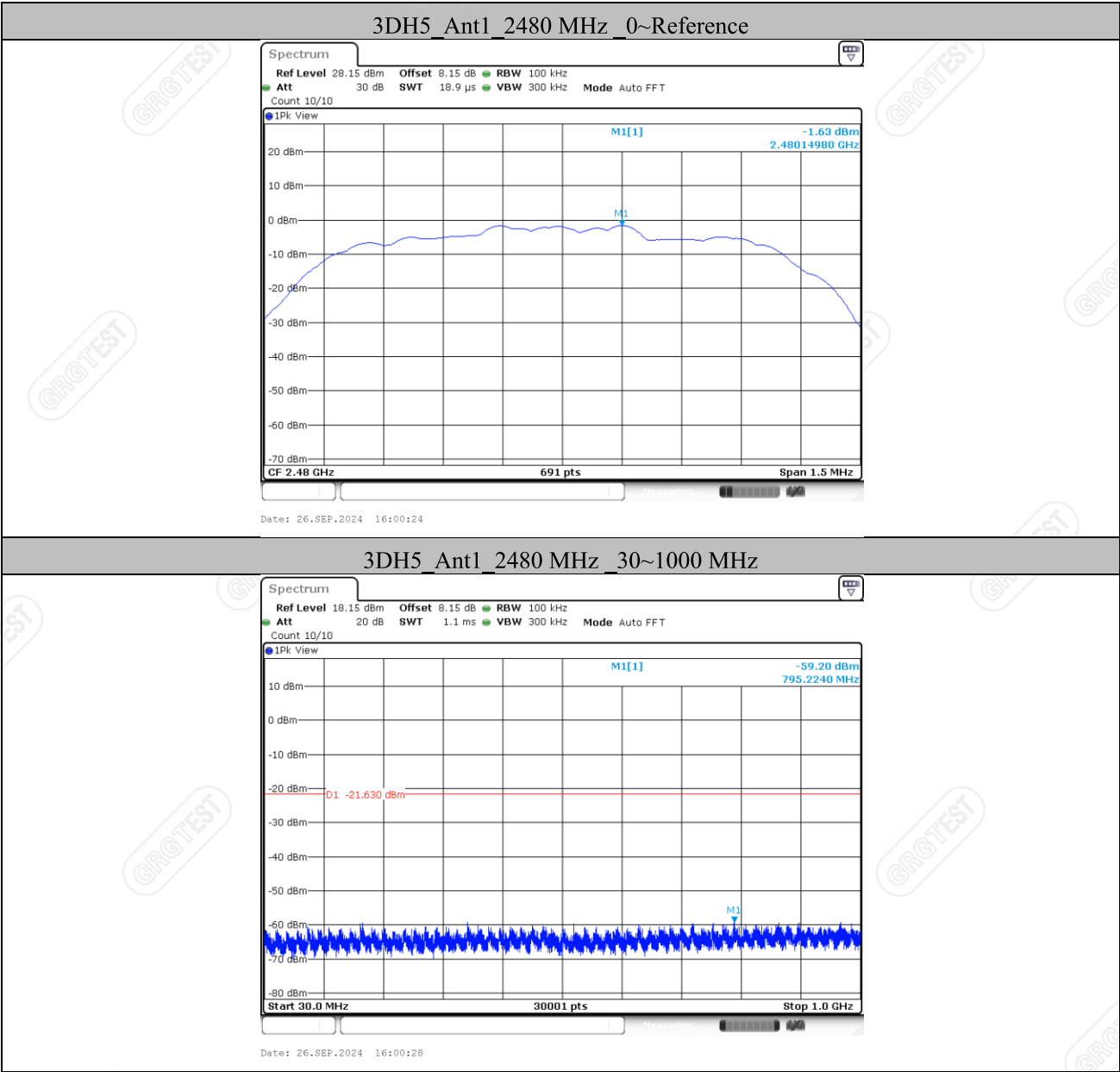


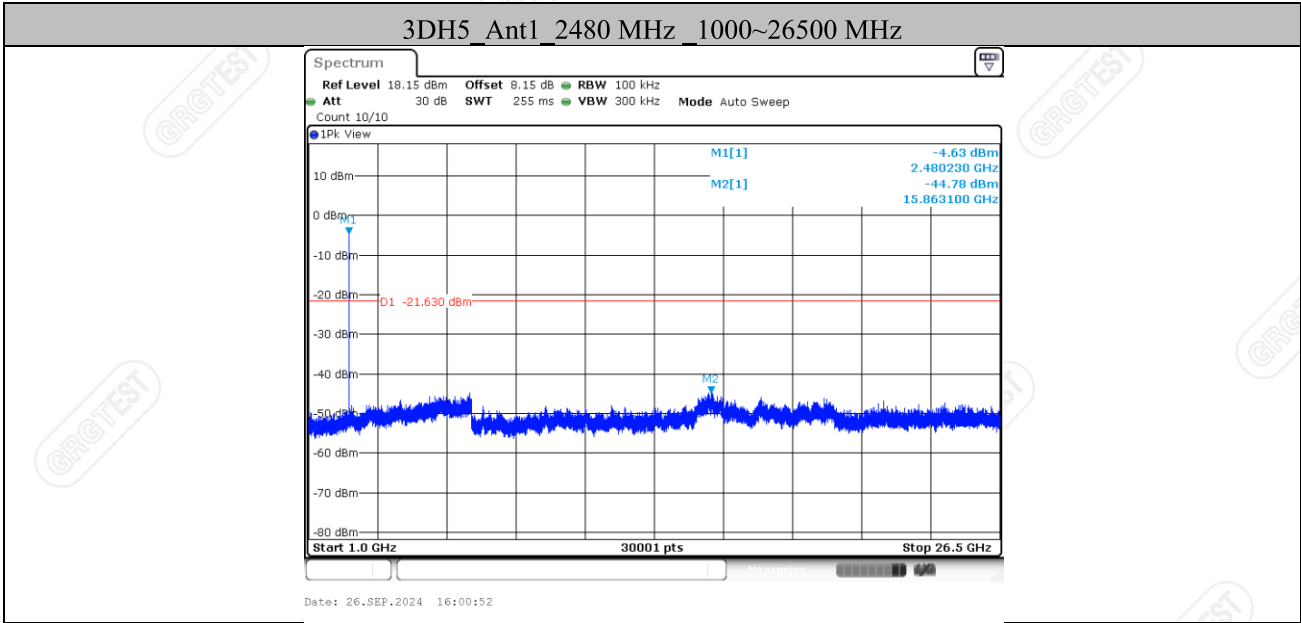












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## 12. RADIATED SPURIOUS EMISSIONS

### 12.1 LIMITS

In any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required.

| Frequency (MHz) | Quasi-peak( $\mu\text{V/m}$ ) | Measurement distance(m) | Quasi-peak(dB $\mu\text{V/m}$ )@distance 3m |
|-----------------|-------------------------------|-------------------------|---------------------------------------------|
| 0.009-0.490     | 2400/F(kHz)                   | 300                     | 128.5~93.8                                  |
| 0.490-1.705     | 24000/F(kHz)                  | 30                      | 73.8~63                                     |
| 1.705-30.0      | 30                            | 30                      | 69.5                                        |
| 30 ~ 88         | 100                           | 3                       | 40                                          |
| 88~216          | 150                           | 3                       | 43.5                                        |
| 216 ~ 960       | 200                           | 3                       | 46                                          |
| Above 960       | 500                           | 3                       | 54                                          |

**NOTE:**

- (1) The emission limits for the ranges 9-90kHz and 110-490kHz are based on measurements employing a linear average detector.
- (2) The lower limit shall apply at the transition frequencies.
- (3) Above 18GHz test distance is 1m, so the Peak Limit=74+20\*log(3/1)=83.54 (dB $\mu\text{V/m}$ ).  
The Avg Limit=54+20\*log(3/1)=63.54 (dB $\mu\text{V/m}$ ).

### 12.2 TEST PROCEDURES

#### 1) Sequence of testing 9kHz to 30MHz

**Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The measurement distance is 3 meter.
- The EUT was set into operation.

**Pre measurement:**

- The turntable rotates from 0° to 360°.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

**Final measurement:**

--- Identified emissions during the pre measurement the software maximizes by rotating the turntable position ( $0^\circ$  to  $360^\circ$ ) and by rotating the elevation axes ( $0^\circ$  to  $360^\circ$ ).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QP detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

**2) Sequence of testing 30MHz to 1GHz****Setup:**

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

**Pre measurement:**

--- The turntable rotates from  $0^\circ$  to  $360^\circ$ .

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 4 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

**Final measurement:**

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from  $0^\circ$  to  $360^\circ$  and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

**3) Sequence of testing 1GHz to 18GHz****Setup:**

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

**Pre measurement:**

--- The turntable rotates from 0° to 360°.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 4 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

**Final measurement:**

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0° to 360° and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

**4) Sequence of testing above 18GHz**

**Setup:**

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The measurement distance is 1 meter.

--- The EUT was set into operation.

**Pre measurement:**

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

**Final measurement:**

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

**NOTE:**

(a).The frequency from 9kHz to 150kHz, Set RBW=300Hz(for Peak&AVG), RBW=300Hz(for Peak&AVG). the frequency from 150kHz to 30MHz, Set RBW=9kHz, RBW=9kHz, (for QP Detector).

(b).The frequency from 30MHz to 1GHz, Set RBW=120kHz, RBW=300kHz, (for QP Detector).

(c).The frequency above 1GHz, for Peak detector: Set RBW=1MHz, RBW=3MHz.

(d). The frequency above 1GHz, for Avg detector: Set RBW=1MHz, if the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set  $VBW \leq RBW/100$  (i.e., 10kHz) but not less than 10 Hz. if the EUT duty cycle is  $< 98\%$ , set  $VBW \geq 1/T$ , Where T is defined in section 2.8.

### 12.3 TEST SETUP

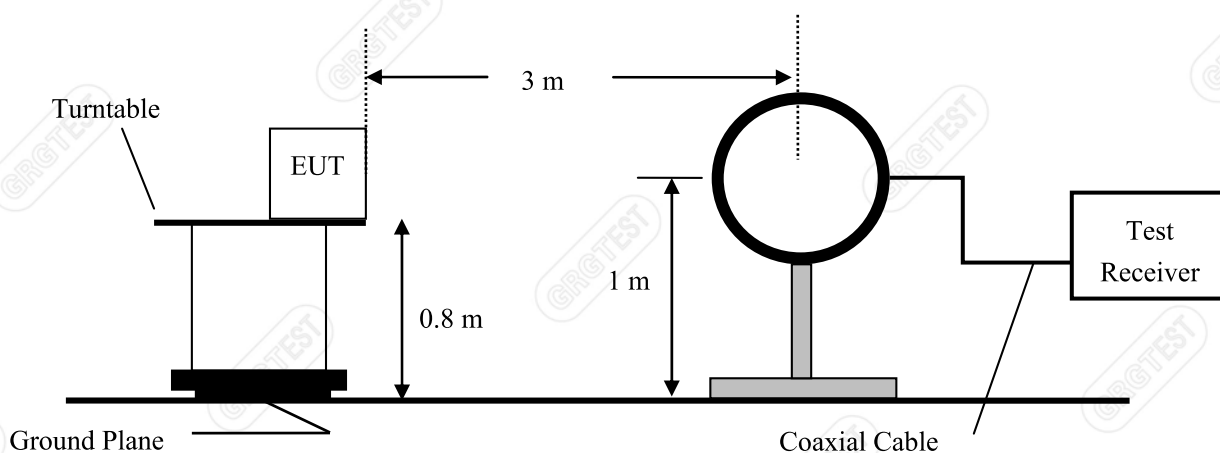


Figure 1. 9kHz to 30MHz radiated emissions test configuration

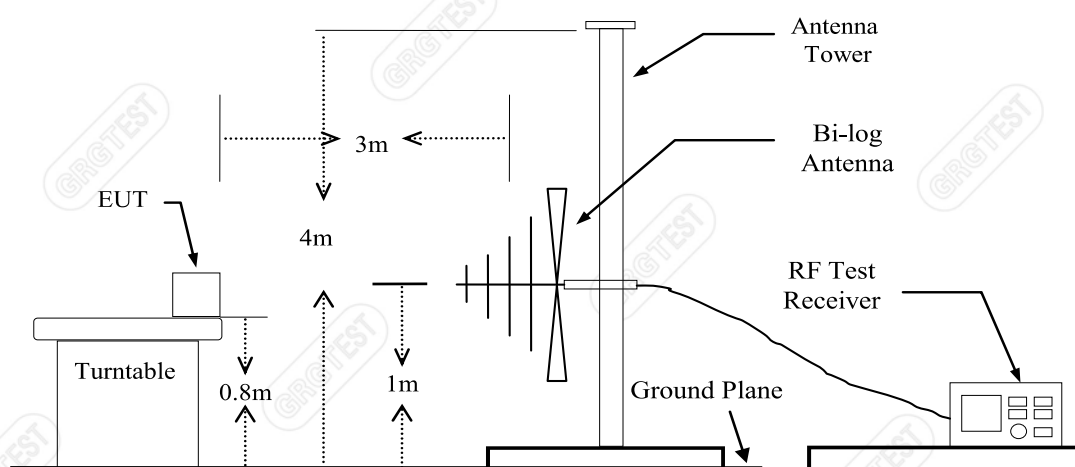


Figure 2. 30MHz to 1GHz radiated emissions test configuration

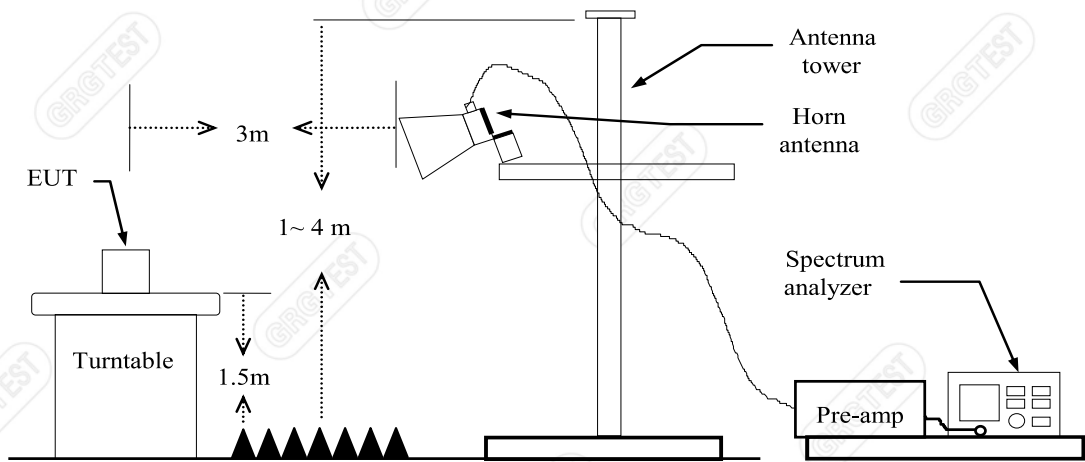


Figure 3. 1GH to 18GHz radiated emissions test configuration

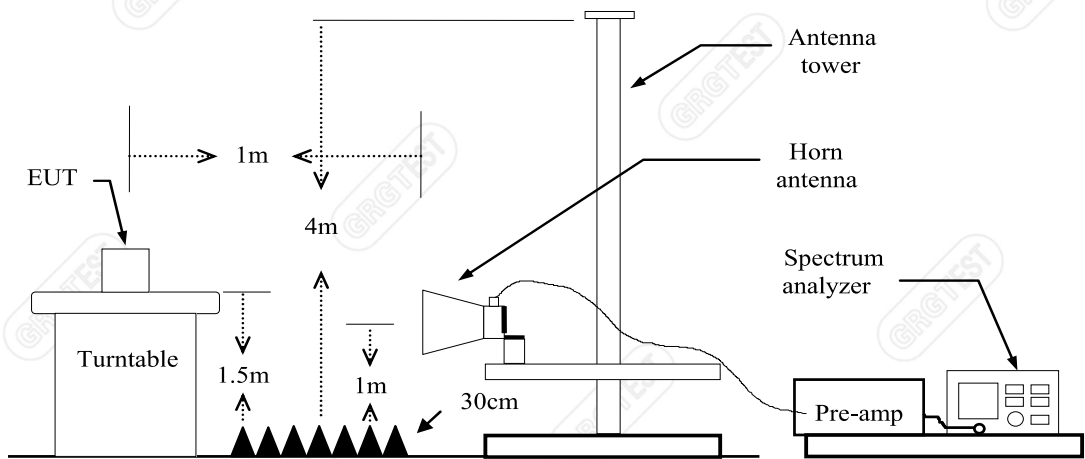


Figure 4. 18GHz to 26.5GHz radiated emissions test configuration

12.4 DATA SAMPLE

30MHz to 1GHz

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Trace | Height<br>[cm] | Angle<br>[°] | Polarity   | Verdict |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|-------|----------------|--------------|------------|---------|
| xxx | xxx            | 56.35               | 27.07             | -29.28         | 40.00             | 12.93          | QP    | 100            | 20           | Horizontal | PASS    |

- Frequency (MHz)

Reading (dBμV/m)

Factor (dB)

Level (dBμV/m)

Limit (dBμV/m)

Margin (dB)
- = Emission frequency in MHz

= Uncorrected Analyzer / Receiver reading

= Antenna factor + Cable loss – Amplifier gain

= Reading (dBμV/m) + Factor (dB)

= Limit stated in standard

= Limit (dBμV/m) - Level (dBμV/m)

QP = Quasi-peak Reading

1GHz-18GHz

| No. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   | Remark |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|--------|
| xxx | xxxx        | 78.01            | 55.30          | -22.71      | 74.00          | 18.70       | 100         | 50        | Horizontal | Peak   |
| xxx | xxxx        | 66.37            | 43.66          | -22.71      | 54.00          | 10.34       | 100         | 50        | Horizontal | AVG    |

Above 18GHz

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level for 1m [dBμV/m] | Level for 3m [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   | Remark |
|-----|-------------|------------------|-----------------------|-----------------------|-------------|----------------|-------------|-------------|-----------|------------|--------|
| xxx | xxxx        | 54.49            | 42.38                 | 32.84                 | -12.11      | 74             | 41.16       | 100         | 211       | Horizontal | Peak   |
| xxx | xxxx        | 43.99            | 31.88                 | 22.34                 | -12.11      | 54             | 31.66       | 100         | 211       | Horizontal | AVG    |

- Frequency (MHz)
- = Emission frequency in MHz
- Reading (dBuV/m)
- = Uncorrected Analyzer / Receiver reading
- Factor (dB)
- = Antenna factor + Cable loss – Amplifier gain
- Level for 1m (dBuV/m)
- = Reading (dBuV/m) + Factor (dB)
- Level for 3m (dBuV/m)
- = Level for 1m (dBuV/m) + 20\*log(1/3)
- Limit (dBuV/m)
- = Limit stated in standard
- Margin (dB)
- = Limit (dBuV/m) – Level (dBuV/m)
- Polarity
- = Antenna polarization
- Peak
- = Peak Reading
- AVG
- = Average Reading

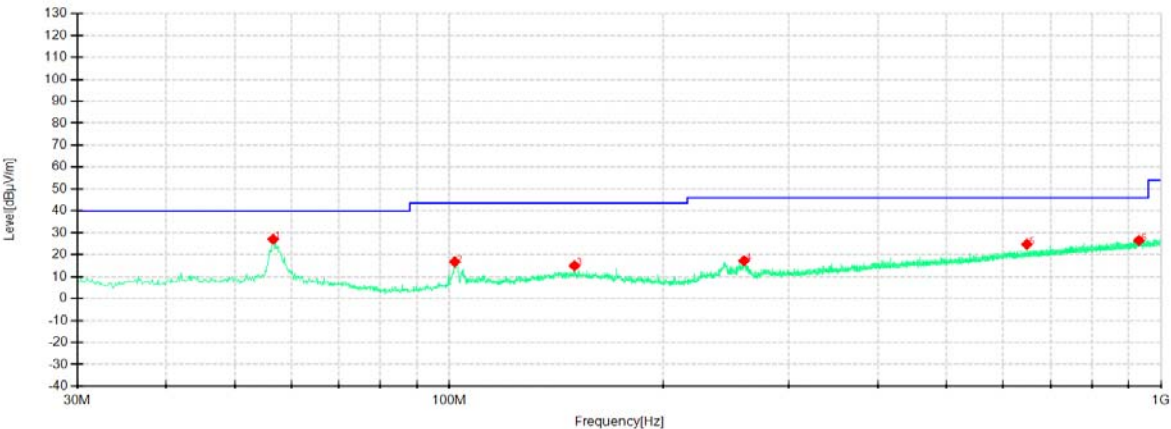
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12.5 TEST RESULTS

**Below 1GHz:** All models were pretested and only the worst modes and channels were recorded in this report(3DH5\_2441MHz).

2441MHz  
Environment:24.8°C/62%RH/101.0kPa  
Test Engineer:Zhao yaru

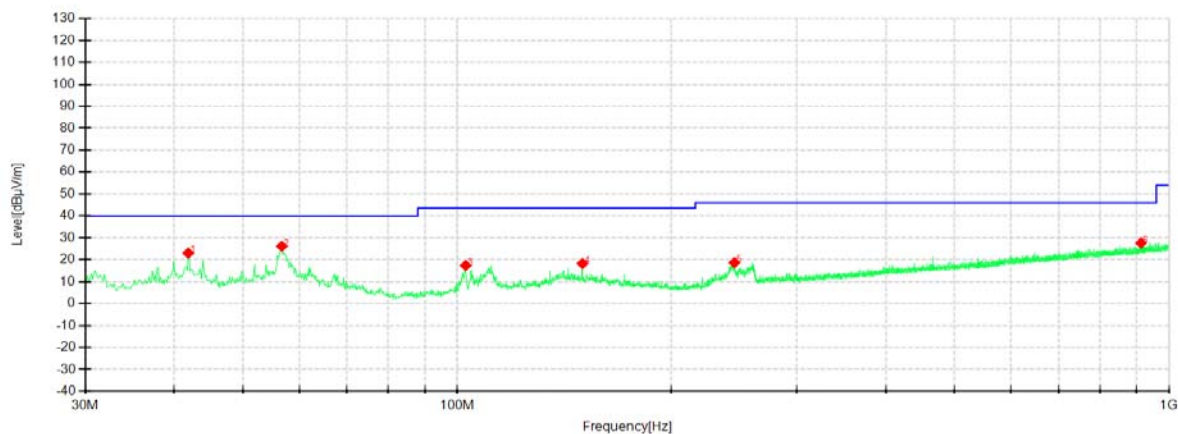
Date: 2024-09-29  
Test Voltage: DC 12V  
Polarity:Horizontal



| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Trace | Height<br>[cm] | Angle<br>[°] | Polarity   | Verdict |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|-------|----------------|--------------|------------|---------|
| 1   | 56.5571        | 56.35               | 27.07             | -29.28         | 40.00             | 12.93          | QP    | 100            | 20           | Horizontal | PASS    |
| 2   | 101.7890       | 48.49               | 16.79             | -31.70         | 43.50             | 26.71          | QP    | 100            | 333          | Horizontal | PASS    |
| 3   | 149.9312       | 43.14               | 14.98             | -28.16         | 43.50             | 28.52          | QP    | 200            | 274          | Horizontal | PASS    |
| 4   | 259.4337       | 46.48               | 17.23             | -29.25         | 46.00             | 28.77          | QP    | 100            | 101          | Horizontal | PASS    |
| 5   | 647.9672       | 43.57               | 24.79             | -18.78         | 46.00             | 21.21          | QP    | 100            | 358          | Horizontal | PASS    |
| 6   | 931.1214       | 41.38               | 26.50             | -14.88         | 46.00             | 19.50          | QP    | 100            | 20           | Horizontal | PASS    |

2441MHz  
Environment:24.8℃/62%RH/101.0kPa  
Test Engineer:Zhao yaru

Date: 2024-09-29  
Test Voltage: DC 12V  
Polarity: Vertical



| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Trace | Height<br>[cm] | Angle<br>[°] | Polarity | Verdict |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|-------|----------------|--------------|----------|---------|
| 1   | 41.8840        | 52.21               | 23.00             | -29.21         | 40.00             | 17.00          | QP    | 200            | 174          | Vertical | PASS    |
| 2   | 56.6783        | 55.43               | 26.14             | -29.29         | 40.00             | 13.86          | QP    | 100            | 279          | Vertical | PASS    |
| 3   | 102.7591       | 48.95               | 17.38             | -31.57         | 43.50             | 26.12          | QP    | 100            | 125          | Vertical | PASS    |
| 4   | 149.9312       | 46.43               | 18.27             | -28.16         | 43.50             | 25.23          | QP    | 100            | 343          | Vertical | PASS    |
| 5   | 245.1244       | 48.23               | 18.70             | -29.53         | 46.00             | 27.30          | QP    | 100            | 72           | Vertical | PASS    |
| 6   | 913.4167       | 42.91               | 27.63             | -15.28         | 46.00             | 18.37          | QP    | 200            | 121          | Vertical | PASS    |

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Pre-scan all mode and recorded the worst case results in this report.
- 3 Measuring frequencies from 9kHz to the 1GHz.
- 4 Radiated emissions measured in frequency range from 30MHz to 1GHz were made with an instrument using Peak/Quasi-peak detector mode.
- 5 Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 6 The IF bandwidth of SPA between 30MHz to 1GHz was 120kHz.

Above 1GHz:

All models were pretested and only the worst modes 3DH5 test results were recorded in this report.

Mode: 3DH5  
Lowest Frequency (2402MHz)  
Environment:24.8°C/62%RH/101.0kPa  
Test Engineer: Zhao yaru

Date: 2024-09-29  
Test Voltage: DC 12V

| Suspected Data List |                |                     |                   |                |                   |                |                |              |            |
|---------------------|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1                   | 2500.8000      | 47.78               | 47.37             | -0.41          | 74.00             | 26.63          | 200            | 304          | Horizontal |
| 2                   | 3141.0000      | 60.51               | 47.51             | -13.00         | 74.00             | 26.49          | 100            | 134          | Horizontal |
| 3                   | 5700.0000      | 56.01               | 50.72             | -5.29          | 74.00             | 23.28          | 200            | 212          | Horizontal |
| 4                   | 6750.0000      | 48.43               | 47.98             | -0.45          | 74.00             | 26.02          | 200            | 117          | Horizontal |
| 5                   | 7272.0000      | 46.56               | 47.87             | 1.31           | 74.00             | 26.13          | 200            | 148          | Horizontal |
| 6                   | 9900.0000      | 40.82               | 49.30             | 8.48           | 74.00             | 24.70          | 200            | 148          | Horizontal |
| 7                   | 2471.2000      | 37.27               | 36.63             | -0.64          | 54.00             | 17.37          | 100            | 305          | Horizontal |
| 8                   | 3157.5000      | 52.81               | 39.79             | -13.02         | 54.00             | 14.21          | 100            | 134          | Horizontal |
| 9                   | 5700.0000      | 46.87               | 41.58             | -5.29          | 54.00             | 12.42          | 200            | 212          | Horizontal |
| 10                  | 6750.0000      | 41.13               | 40.68             | -0.45          | 54.00             | 13.32          | 200            | 117          | Horizontal |
| 11                  | 7336.5000      | 37.06               | 38.72             | 1.66           | 54.00             | 15.28          | 200            | 164          | Horizontal |
| 12                  | 9966.0000      | 30.76               | 39.50             | 8.74           | 54.00             | 14.50          | 200            | 164          | Horizontal |

| Suspected Data List |                |                     |                   |                |                   |                |                |              |          |
|---------------------|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1                   | 2093.4000      | 49.34               | 45.30             | -4.04          | 74.00             | 28.70          | 200            | 99           | Vertical |
| 2                   | 2494.0000      | 47.25               | 46.74             | -0.51          | 74.00             | 27.26          | 100            | 20           | Vertical |
| 3                   | 3154.5000      | 54.51               | 41.14             | -13.37         | 74.00             | 32.86          | 100            | 242          | Vertical |
| 4                   | 5730.0000      | 53.74               | 49.00             | -4.74          | 74.00             | 25.00          | 200            | 146          | Vertical |
| 5                   | 6750.0000      | 46.86               | 46.61             | -0.25          | 74.00             | 27.39          | 100            | 226          | Vertical |
| 6                   | 9960.0000      | 40.27               | 48.92             | 8.65           | 74.00             | 25.08          | 200            | 146          | Vertical |
| 7                   | 2071.8000      | 37.44               | 33.42             | -4.02          | 54.00             | 20.58          | 200            | 162          | Vertical |
| 8                   | 2500.4000      | 36.61               | 36.22             | -0.39          | 54.00             | 17.78          | 100            | 302          | Vertical |
| 9                   | 3157.5000      | 46.76               | 33.40             | -13.36         | 54.00             | 20.60          | 100            | 34           | Vertical |
| 10                  | 5728.5000      | 44.93               | 40.17             | -4.76          | 54.00             | 13.83          | 200            | 146          | Vertical |
| 11                  | 6750.0000      | 38.95               | 38.70             | -0.25          | 54.00             | 15.30          | 100            | 226          | Vertical |
| 12                  | 9822.0000      | 29.00               | 37.68             | 8.68           | 54.00             | 16.32          | 200            | 162          | Vertical |

Mode: 3DH5  
Lowest Frequency (2441MHz)  
Environment:24.8℃/62%RH/101.0kPa  
Test Engineer: Zhao yaru

Date: 2024-09-29  
Test Voltage: DC 12V

| Suspected Data List |                |                     |                   |                |                   |                |                |              |            |
|---------------------|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1                   | 2467.0000      | 47.08               | 46.40             | -0.68          | 74.00             | 27.60          | 100            | 113          | Horizontal |
| 2                   | 3157.5000      | 61.98               | 48.96             | -13.02         | 74.00             | 25.04          | 100            | 123          | Horizontal |
| 3                   | 5701.5000      | 57.64               | 52.36             | -5.28          | 74.00             | 21.64          | 200            | 199          | Horizontal |
| 4                   | 6721.5000      | 44.50               | 43.87             | -0.63          | 74.00             | 30.13          | 200            | 153          | Horizontal |
| 5                   | 7341.0000      | 45.90               | 47.59             | 1.69           | 74.00             | 26.41          | 200            | 153          | Horizontal |
| 6                   | 10027.5000     | 40.45               | 49.12             | 8.67           | 74.00             | 24.88          | 200            | 137          | Horizontal |
| 7                   | 2494.8000      | 36.81               | 36.39             | -0.42          | 54.00             | 17.61          | 100            | 20           | Horizontal |
| 8                   | 3157.5000      | 52.85               | 39.83             | -13.02         | 54.00             | 14.17          | 100            | 123          | Horizontal |
| 9                   | 5770.5000      | 46.91               | 42.30             | -4.61          | 54.00             | 11.70          | 200            | 199          | Horizontal |
| 10                  | 6750.0000      | 41.77               | 41.32             | -0.45          | 54.00             | 12.68          | 200            | 106          | Horizontal |
| 11                  | 7311.0000      | 36.87               | 38.33             | 1.46           | 54.00             | 15.67          | 200            | 168          | Horizontal |
| 12                  | 9942.0000      | 31.07               | 39.93             | 8.86           | 54.00             | 14.07          | 200            | 153          | Horizontal |

| Suspected Data List |                |                     |                   |                |                   |                |                |              |          |
|---------------------|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1                   | 2501.4000      | 47.58               | 47.16             | -0.42          | 74.00             | 26.84          | 100            | 179          | Vertical |
| 2                   | 3363.0000      | 54.59               | 41.54             | -13.05         | 74.00             | 32.46          | 200            | 197          | Vertical |
| 3                   | 5719.5000      | 54.30               | 49.44             | -4.86          | 74.00             | 24.56          | 100            | 171          | Vertical |
| 4                   | 6750.0000      | 46.09               | 45.84             | -0.25          | 74.00             | 28.16          | 100            | 140          | Vertical |
| 5                   | 9342.0000      | 40.76               | 47.94             | 7.18           | 74.00             | 26.06          | 200            | 308          | Vertical |
| 6                   | 12697.5000     | 36.86               | 49.01             | 12.15          | 74.00             | 24.99          | 100            | 338          | Vertical |
| 7                   | 2502.6000      | 36.82               | 36.34             | -0.48          | 54.00             | 17.66          | 100            | 247          | Vertical |
| 8                   | 3358.5000      | 45.95               | 32.87             | -13.08         | 54.00             | 21.13          | 200            | 197          | Vertical |
| 9                   | 5722.5000      | 44.47               | 39.65             | -4.82          | 54.00             | 14.35          | 200            | 152          | Vertical |
| 10                  | 6750.0000      | 39.25               | 39.00             | -0.25          | 54.00             | 15.00          | 100            | 210          | Vertical |
| 11                  | 9304.5000      | 29.62               | 36.68             | 7.06           | 54.00             | 17.32          | 100            | 210          | Vertical |
| 12                  | 12676.5000     | 25.68               | 37.71             | 12.03          | 54.00             | 16.29          | 100            | 308          | Vertical |

Mode: 3DH5  
Lowest Frequency (2480MHz)  
Environment:24.8℃/62%RH/101.0kPa  
Test Engineer: Zhao yaru

Date: 2024-09-29  
Test Voltage: DC 12V

| Suspected Data List |                |                     |                   |                |                   |                |                |              |            |
|---------------------|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1                   | 2493.2000      | 47.42               | 46.99             | -0.43          | 74.00             | 27.01          | 100            | 82           | Horizontal |
| 2                   | 3157.5000      | 60.09               | 47.07             | -13.02         | 74.00             | 26.93          | 100            | 118          | Horizontal |
| 3                   | 5712.0000      | 56.78               | 51.60             | -5.18          | 74.00             | 22.40          | 200            | 212          | Horizontal |
| 4                   | 6750.0000      | 48.57               | 48.12             | -0.45          | 74.00             | 25.88          | 200            | 164          | Horizontal |
| 5                   | 7447.5000      | 45.51               | 47.12             | 1.61           | 74.00             | 26.88          | 200            | 149          | Horizontal |
| 6                   | 9898.5000      | 40.94               | 49.42             | 8.48           | 74.00             | 24.58          | 200            | 149          | Horizontal |
| 7                   | 2480.0000      | 39.96               | 39.40             | -0.56          | 54.00             | 14.60          | 100            | 303          | Horizontal |
| 8                   | 3157.5000      | 52.59               | 39.57             | -13.02         | 54.00             | 14.43          | 100            | 118          | Horizontal |
| 9                   | 5731.5000      | 46.97               | 41.99             | -4.98          | 54.00             | 12.01          | 200            | 212          | Horizontal |
| 10                  | 6750.0000      | 41.66               | 41.21             | -0.45          | 54.00             | 12.79          | 200            | 116          | Horizontal |
| 11                  | 7306.5000      | 36.89               | 38.31             | 1.42           | 54.00             | 15.69          | 200            | 164          | Horizontal |
| 12                  | 9753.0000      | 30.77               | 39.54             | 8.77           | 54.00             | 14.46          | 200            | 164          | Horizontal |

| Suspected Data List |                |                     |                   |                |                   |                |                |              |          |
|---------------------|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1                   | 1894.6000      | 47.77               | 43.96             | -3.81          | 74.00             | 30.04          | 200            | 21           | Vertical |
| 2                   | 2496.0000      | 47.53               | 47.06             | -0.47          | 74.00             | 26.94          | 100            | 84           | Vertical |
| 3                   | 3349.5000      | 55.49               | 42.35             | -13.14         | 74.00             | 31.65          | 200            | 182          | Vertical |
| 4                   | 5731.5000      | 53.94               | 49.23             | -4.71          | 74.00             | 24.77          | 200            | 150          | Vertical |
| 5                   | 6750.0000      | 46.25               | 46.00             | -0.25          | 74.00             | 28.00          | 100            | 230          | Vertical |
| 6                   | 10174.5000     | 38.77               | 48.17             | 9.40           | 74.00             | 25.83          | 200            | 24           | Vertical |
| 7                   | 1899.0000      | 37.44               | 33.73             | -3.71          | 54.00             | 20.27          | 200            | 147          | Vertical |
| 8                   | 2480.0000      | 41.01               | 40.17             | -0.84          | 54.00             | 13.83          | 200            | 289          | Vertical |
| 9                   | 3357.0000      | 45.52               | 32.42             | -13.10         | 54.00             | 21.58          | 200            | 182          | Vertical |
| 10                  | 5722.5000      | 44.21               | 39.39             | -4.82          | 54.00             | 14.61          | 200            | 150          | Vertical |
| 11                  | 6750.0000      | 39.71               | 39.46             | -0.25          | 54.00             | 14.54          | 100            | 230          | Vertical |
| 12                  | 9936.0000      | 28.92               | 37.68             | 8.76           | 54.00             | 16.32          | 100            | 214          | Vertical |

**Remark:**

- 1 Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2 The amplitude of 18GHz to 26.5GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
- 3 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 5 Spectrum setting:
  - a. Peak Setting 1GHz–26.5GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = auto.
  - b. AV Setting 1GHz–26.5GHz, Set RBW=1MHz, if the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set  $VBW \leq RBW/100$  (i.e., 10kHz) but not less than 10 Hz. if the EUT duty cycle is  $< 98\%$ , set  $VBW \geq 1/T$ , Where T is defined in section 2.8.

**Test result: The unit does meet the requirements.**

———— The following blanks ————

**Above 18GHz:**

All models were pretested and only the worst modes were recorded in this report(3DH5\_2402MHz).

Mode: 3DH5

Lowest Frequency (2402MHz)

Environment: 26.5°C/57%RH/101.0kPa

Test Engineer: Zhao yaru

Date: 2024-10-02

Test Voltage: DC 12V

**Suspected Data List**

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level for 1m<br>[dBμV/m] | Level for 3m<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|--------------------------|--------------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 18878.4750     | 48.80               | 32.78                    | 23.24                    | -16.02         | 74                | 50.76          | 100            | 182          | Horizontal |
| 2   | 19689.3750     | 48.71               | 32.85                    | 23.31                    | -15.86         | 74                | 50.69          | 200            | 302          | Horizontal |
| 3   | 20809.6750     | 47.29               | 32.14                    | 22.6                     | -15.15         | 74                | 51.40          | 100            | 41           | Horizontal |
| 4   | 21811.8250     | 49.02               | 34.10                    | 24.56                    | -14.92         | 74                | 49.44          | 100            | 344          | Horizontal |
| 5   | 23285.3000     | 46.59               | 32.59                    | 23.05                    | -14.00         | 74                | 50.95          | 200            | 322          | Horizontal |
| 6   | 24695.0250     | 45.49               | 31.95                    | 22.41                    | -13.54         | 74                | 51.59          | 100            | 302          | Horizontal |

**Suspected Data List**

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level for 1m<br>[dBμV/m] | Level for 3m<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|--------------------------|--------------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 18527          | 48.81               | 32.59                    | 23.05                    | -16.22         | 74                | 50.95          | 100            | 82           | Vertical |
| 2   | 19366.375      | 49.63               | 34.14                    | 24.6                     | -15.49         | 74                | 49.40          | 200            | 280          | Vertical |
| 3   | 20249.525      | 50.26               | 35.18                    | 25.64                    | -15.08         | 74                | 48.36          | 100            | 102          | Vertical |
| 4   | 21466.3        | 48.63               | 34.14                    | 24.6                     | -14.49         | 74                | 49.40          | 100            | 122          | Vertical |
| 5   | 22846.275      | 47.27               | 33.57                    | 24.03                    | -13.70         | 74                | 49.97          | 200            | 102          | Vertical |
| 6   | 23998.45       | 45.81               | 32.48                    | 22.94                    | -13.33         | 74                | 51.06          | 100            | 142          | Vertical |

**Remark:**

- 1 Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Above 18G test distance is 1m, so the Level for 3m= Level for 1m + 20\*log(1/3)

### 13. RESTRICTED BANDS OF OPERATION

#### 13.1 LIMITS

Section 15.247(d) 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)).

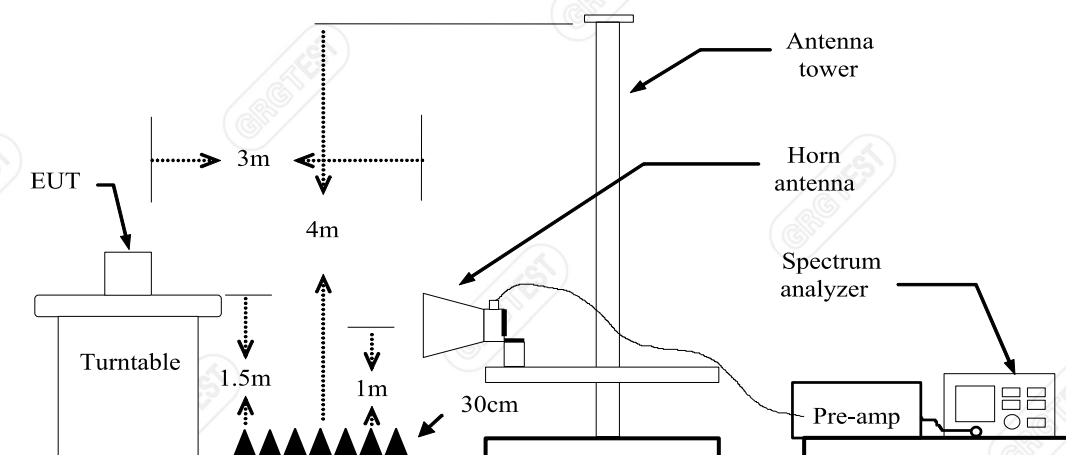
| MHz                        | MHz                   | MHz             | GHz           |
|----------------------------|-----------------------|-----------------|---------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15    |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46   |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75   |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5   |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2     |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5     |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7   |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4  |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5  |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2  |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4   |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2655 - 2900     | 22.01 - 23.12 |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0   |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8   |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5  |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     |               |
| 13.36 - 13.41              |                       |                 |               |

| Frequency (MHz) | Quasi-peak(μV/m) | Measurement distance(m) | Quasi-peak(dBμV/m)@distance 3m |
|-----------------|------------------|-------------------------|--------------------------------|
| 0.009-0.490     | 2400/F(kHz)      | 300                     | 128.5~93.8                     |
| 0.490-1.705     | 24000/F(kHz)     | 30                      | 73.8~63                        |
| 1.705-30.0      | 30               | 30                      | 69.5                           |
| 30 ~ 88         | 100              | 3                       | 40                             |
| 88~216          | 150              | 3                       | 43.5                           |
| 216 ~ 960       | 200              | 3                       | 46                             |
| Above 960       | 500              | 3                       | 54                             |

### 13.2 TEST PROCEDURES

- 1) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 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 varied from 1m to 4m to find out the highest emission.
- 4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO.
  - b) AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO. Where T is defined in section 2.8.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

### 13.3 TEST SETUP



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13.4 TEST RESULTS

All models were pretested and only the worst modes were recorded in this report.

DH5

Lowest Channel

Frequency 2402MHz

Environment: 25.7°C/59%RH/101.0kPa

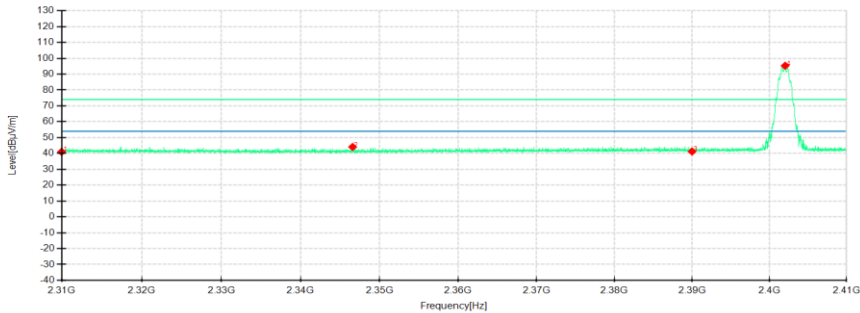
Tested By: Zhao yaru

Detector mode: Peak

Voltage: DC 12V

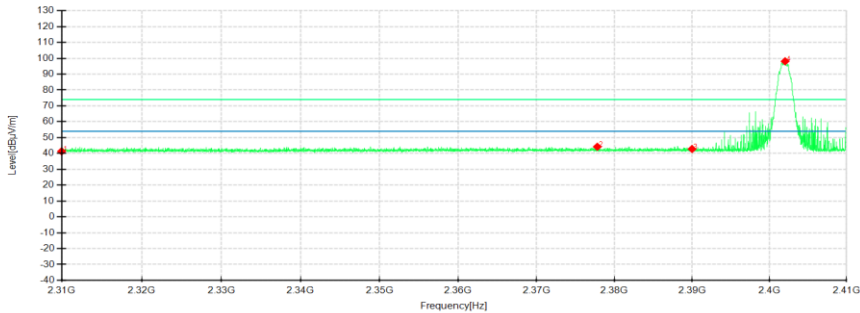
Date: 2024-10-01

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

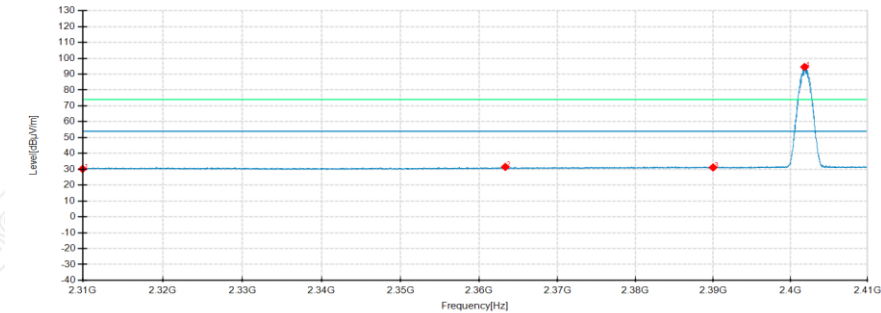


| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Remark   |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|----------|
| 1   | 2310.0000        | 46.52             | 41.04           | -5.48        | 74.00           | 32.96        | 200          | 112        | Horizontal | /        |
| 2   | 2346.5875        | 49.94             | 44.10           | -5.84        | 74.00           | 29.90        | 200          | 214        | Horizontal | /        |
| 3   | 2390.0000        | 46.60             | 41.21           | -5.39        | 74.00           | 32.79        | 100          | 326        | Horizontal | /        |
| 4   | 2402.0375        | 100.53            | 95.29           | -5.24        | 74.00           | -21.29       | 100          | 312        | Horizontal | No limit |
| 1   | 2310.0000        | 46.66             | 41.34           | -5.32        | 74.00           | 32.66        | 200          | 175        | Vertical   | /        |
| 2   | 2377.8000        | 49.69             | 44.22           | -5.47        | 74.00           | 29.78        | 200          | 225        | Vertical   | /        |
| 3   | 2390.0000        | 48.28             | 42.81           | -5.47        | 74.00           | 31.19        | 200          | 251        | Vertical   | /        |
| 4   | 2402.0375        | 103.57            | 98.11           | -5.46        | 74.00           | -24.11       | 200          | 314        | Vertical   | No limit |

Lowest Channel

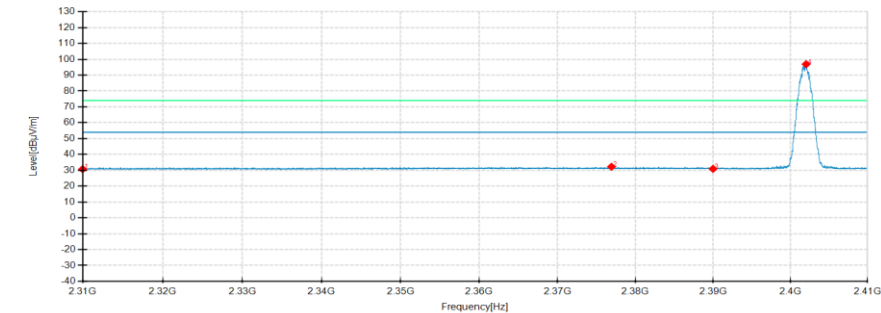
Frequency 2402MHz  
Environment: 25.7°C/59%RH/101.0kPa  
Tested By: Zhao yaru  
Detector mode: Average

Voltage: DC 12V  
Date: 2024-10-01  
Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

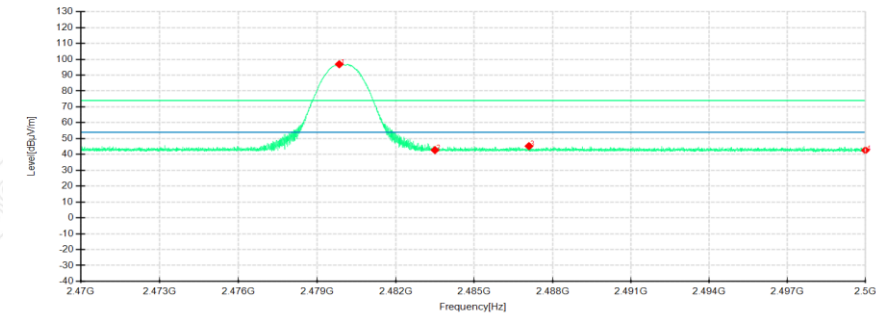


| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Remark   |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|----------|
| 1   | 2310.0000        | 35.73             | 30.25           | -5.48        | 54.00           | 23.75        | 100          | 21         | Horizontal | /        |
| 2   | 2363.3375        | 37.21             | 31.50           | -5.71        | 54.00           | 22.50        | 100          | 124        | Horizontal | /        |
| 3   | 2390.0000        | 36.56             | 31.17           | -5.39        | 54.00           | 22.83        | 100          | 290        | Horizontal | /        |
| 4   | 2401.8375        | 99.75             | 94.51           | -5.24        | 54.00           | -40.51       | 100          | 314        | Horizontal | No limit |
| 1   | 2310.0000        | 36.07             | 30.75           | -5.32        | 54.00           | 23.25        | 100          | 43         | Vertical   | /        |
| 2   | 2376.9250        | 37.71             | 32.24           | -5.47        | 54.00           | 21.76        | 200          | 164        | Vertical   | /        |
| 3   | 2390.0000        | 36.39             | 30.92           | -5.47        | 54.00           | 23.08        | 200          | 150        | Vertical   | /        |
| 4   | 2402.0375        | 102.36            | 96.90           | -5.46        | 54.00           | -42.90       | 200          | 314        | Vertical   | No limit |

Highest Channel

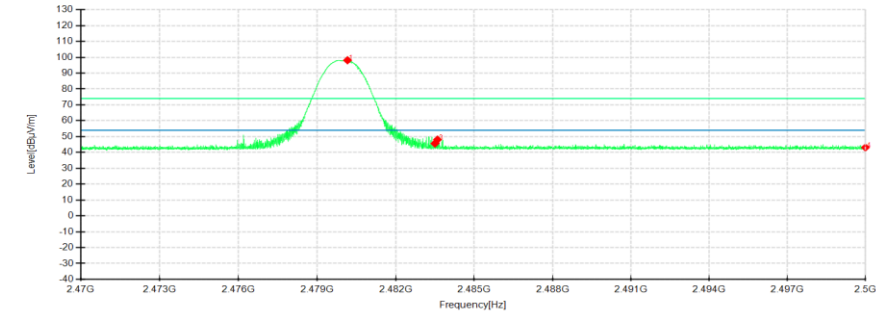
Frequency 2480MHz  
Environment: 25.7°C/59%RH/101.0kPa  
Tested By: Zhao yaru  
Detector mode: Peak

Voltage: DC 12V  
Date: 2024-10-01  
Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

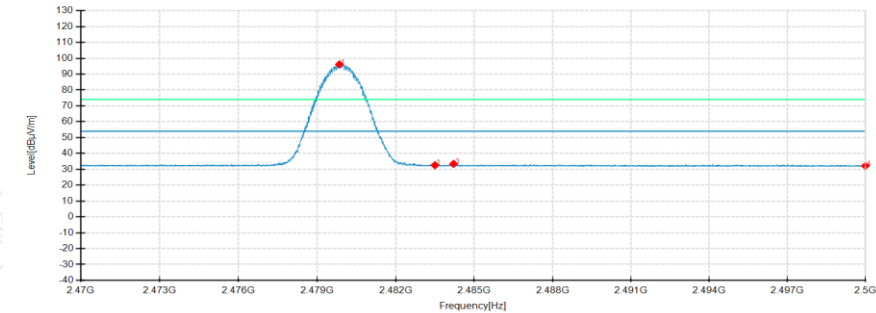


| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Remark   |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|----------|
| 1   | 2479.8475        | 101.67            | 96.86           | -4.81        | 74.00           | -22.86       | 100          | 316        | Horizontal | No limit |
| 2   | 2483.5000        | 47.59             | 42.76           | -4.83        | 74.00           | 31.24        | 200          | 46         | Horizontal | /        |
| 3   | 2487.0963        | 50.12             | 45.25           | -4.87        | 74.00           | 28.75        | 100          | 112        | Horizontal | /        |
| 4   | 2500.0000        | 47.60             | 42.61           | -4.99        | 74.00           | 31.39        | 200          | 111        | Horizontal | /        |
| 1   | 2480.1625        | 103.21            | 98.12           | -5.09        | 74.00           | -24.12       | 200          | 315        | Vertical   | No limit |
| 2   | 2483.5000        | 50.72             | 45.65           | -5.07        | 74.00           | 28.35        | 200          | 302        | Vertical   | /        |
| 3   | 2483.5975        | 53.15             | 48.08           | -5.07        | 74.00           | 25.92        | 200          | 289        | Vertical   | /        |
| 4   | 2500.0000        | 48.11             | 43.12           | -4.99        | 74.00           | 30.88        | 200          | 201        | Vertical   | /        |

Highest Channel

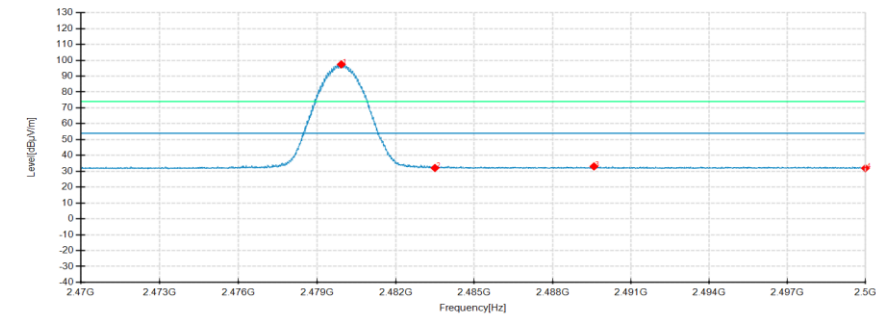
Frequency 2480MHz  
Environment: 25.7°C/59%RH/101.0kPa  
Tested By: Zhao yaru  
Detector mode: Average

Voltage: DC 12V  
Date: 2024-10-01  
Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Remark   |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|----------|
| 1   | 2479.8550        | 100.97            | 96.16           | -4.81        | 54.00           | -42.16       | 100          | 314        | Horizontal | No limit |
| 2   | 2483.5000        | 37.40             | 32.57           | -4.83        | 54.00           | 21.43        | 100          | 73         | Horizontal | /        |
| 3   | 2484.2125        | 38.26             | 33.42           | -4.84        | 54.00           | 20.58        | 100          | 60         | Horizontal | /        |
| 4   | 2500.0000        | 37.16             | 32.17           | -4.99        | 54.00           | 21.83        | 100          | 328        | Horizontal | /        |
| 1   | 2479.9263        | 102.51            | 97.42           | -5.09        | 54.00           | -43.42       | 200          | 302        | Vertical   | No limit |
| 2   | 2483.5000        | 37.18             | 32.11           | -5.07        | 54.00           | 21.89        | 200          | 340        | Vertical   | /        |
| 3   | 2489.5825        | 38.13             | 33.09           | -5.04        | 54.00           | 20.91        | 200          | 239        | Vertical   | /        |
| 4   | 2500.0000        | 36.95             | 31.96           | -4.99        | 54.00           | 22.04        | 200          | 0          | Vertical   | /        |

3DH5

Lowest Channel

Frequency 2402MHz

Environment: 25.7°C/59%RH/101.0kPa

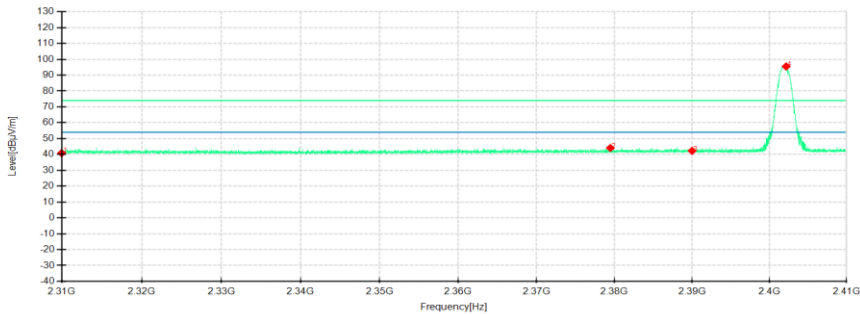
Tested By: Zhao yaru

Detector mode: Peak

Voltage: DC 12V

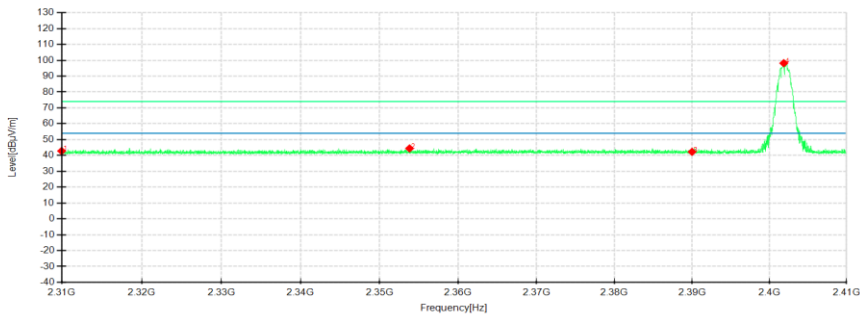
Date: 2024-10-01

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

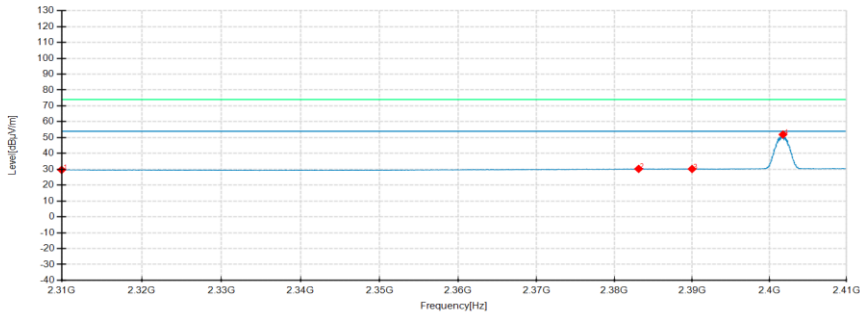


| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Remark   |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|----------|
| 1   | 2310.0000        | 46.33             | 40.85           | -5.48        | 74.00           | 33.15        | 100          | 341        | Horizontal | /        |
| 2   | 2379.4750        | 49.58             | 44.06           | -5.52        | 74.00           | 29.94        | 100          | 134        | Horizontal | /        |
| 3   | 2390.0000        | 47.66             | 42.27           | -5.39        | 74.00           | 31.73        | 100          | 21         | Horizontal | /        |
| 4   | 2402.1625        | 100.70            | 95.47           | -5.23        | 74.00           | -21.47       | 100          | 302        | Horizontal | No limit |
| 1   | 2310.0000        | 48.11             | 42.79           | -5.32        | 74.00           | 31.21        | 200          | 184        | Vertical   | /        |
| 2   | 2353.8125        | 49.90             | 44.43           | -5.47        | 74.00           | 29.57        | 200          | 340        | Vertical   | /        |
| 3   | 2390.0000        | 47.76             | 42.29           | -5.47        | 74.00           | 31.71        | 200          | 287        | Vertical   | /        |
| 4   | 2401.8625        | 103.64            | 98.18           | -5.46        | 74.00           | -24.18       | 200          | 315        | Vertical   | No limit |

Lowest Channel

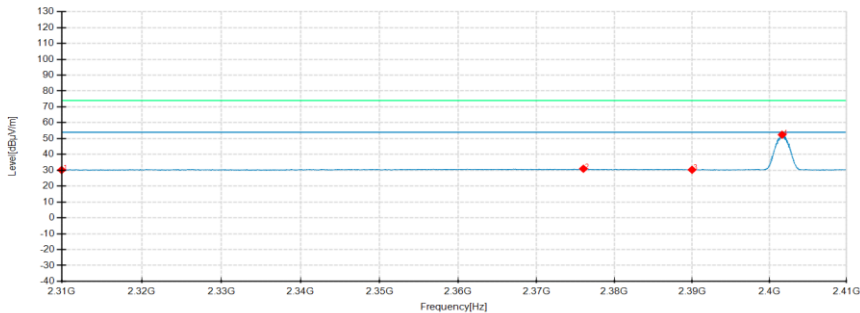
Frequency 2402MHz  
Environment: 25.7°C/59%RH/101.0kPa  
Tested By: Zhao yaru  
Detector mode: Average

Voltage: DC 12V  
Date: 2024-10-01  
Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

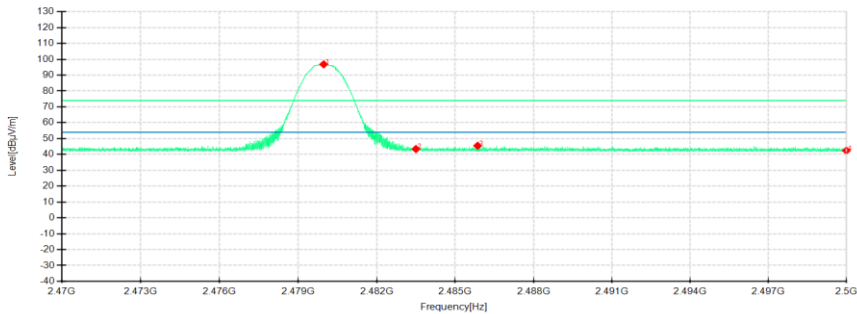


| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Remark   |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|----------|
| 1   | 2310.0000        | 35.13             | 29.65           | -5.48        | 54.00           | 24.35        | 100          | 136        | Horizontal | /        |
| 2   | 2383.1125        | 35.75             | 30.28           | -5.47        | 54.00           | 23.72        | 200          | 120        | Horizontal | /        |
| 3   | 2390.0000        | 35.61             | 30.22           | -5.39        | 54.00           | 23.78        | 100          | 99         | Horizontal | /        |
| 4   | 2401.7625        | 57.18             | 51.93           | -5.25        | 54.00           | 2.07         | 100          | 302        | Horizontal | No limit |
| 1   | 2310.0000        | 35.52             | 30.20           | -5.32        | 54.00           | 23.80        | 200          | 162        | Vertical   | /        |
| 2   | 2376.0125        | 36.46             | 30.99           | -5.47        | 54.00           | 23.01        | 200          | 162        | Vertical   | /        |
| 3   | 2390.0000        | 35.80             | 30.33           | -5.47        | 54.00           | 23.67        | 200          | 162        | Vertical   | /        |
| 4   | 2401.6500        | 57.91             | 52.44           | -5.47        | 54.00           | 1.56         | 200          | 301        | Vertical   | No limit |

Highest Channel

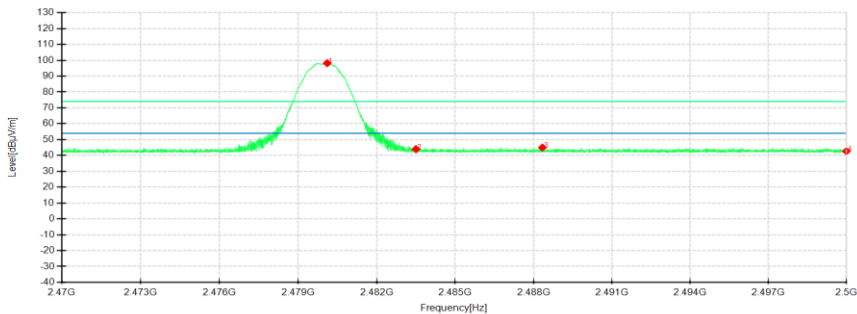
Frequency 2480MHz  
Environment: 25.7°C/59%RH/101.0kPa  
Tested By: Zhao yaru  
Detector mode: Peak

Voltage: DC 12V  
Date: 2024-10-01  
Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

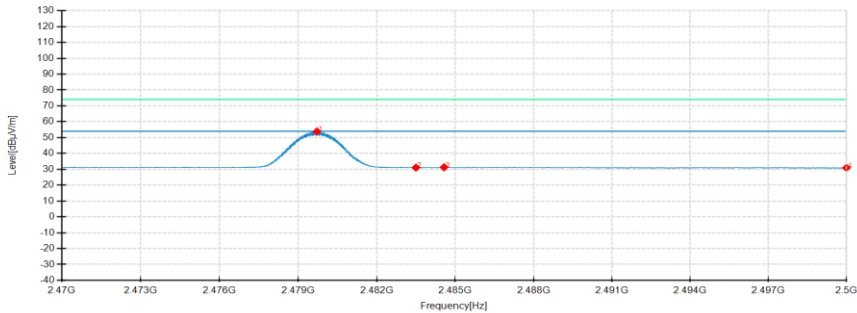


| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Remark   |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|----------|
| 1   | 2479.9788        | 101.62            | 96.81           | -4.81        | 74.00           | -22.81       | 100          | 326        | Horizontal | No limit |
| 2   | 2483.5000        | 48.24             | 43.41           | -4.83        | 74.00           | 30.59        | 200          | 251        | Horizontal | /        |
| 3   | 2485.8588        | 50.34             | 45.48           | -4.86        | 74.00           | 28.52        | 100          | 326        | Horizontal |          |
| 4   | 2500.0000        | 47.40             | 42.41           | -4.99        | 74.00           | 31.59        | 100          | 4          | Horizontal | /        |
| 1   | 2480.1138        | 103.27            | 98.18           | -5.09        | 74.00           | -24.18       | 200          | 314        | Vertical   | No limit |
| 2   | 2483.5000        | 49.03             | 43.96           | -5.07        | 74.00           | 30.04        | 200          | 291        | Vertical   | /        |
| 3   | 2488.3375        | 50.04             | 44.99           | -5.05        | 74.00           | 29.01        | 100          | 302        | Vertical   | /        |
| 4   | 2500.0000        | 47.65             | 42.66           | -4.99        | 74.00           | 31.34        | 100          | 174        | Vertical   | /        |

Highest Channel

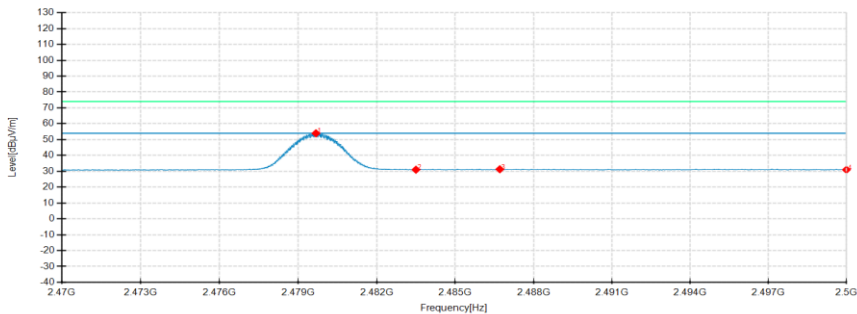
Frequency 2480MHz  
Environment: 25.7°C/59%RH/101.0kPa  
Tested By: Zhao yaru  
Detector mode: Average

Voltage: DC 12V  
Date: 2024-10-01  
Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Remark   |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|----------|
| 1   | 2479.7200        | 58.65             | 53.84           | -4.81        | 54.00           | 0.16         | 100          | 314        | Horizontal | No limit |
| 2   | 2483.5000        | 35.89             | 31.06           | -4.83        | 54.00           | 22.94        | 100          | 314        | Horizontal | /        |
| 3   | 2484.5763        | 36.13             | 31.28           | -4.85        | 54.00           | 22.72        | 100          | 123        | Horizontal | /        |
| 4   | 2500.0000        | 35.90             | 30.91           | -4.99        | 54.00           | 23.09        | 100          | 84         | Horizontal | /        |
| 1   | 2479.6825        | 59.04             | 53.95           | -5.09        | 54.00           | 0.05         | 200          | 314        | Vertical   | No limit |
| 2   | 2483.5000        | 36.09             | 31.02           | -5.07        | 54.00           | 22.98        | 200          | 215        | Vertical   | /        |
| 3   | 2486.7063        | 36.34             | 31.29           | -5.05        | 54.00           | 22.71        | 200          | 202        | Vertical   | /        |
| 4   | 2500.0000        | 35.96             | 30.97           | -4.99        | 54.00           | 23.03        | 100          | 210        | Vertical   | /        |

Remark: Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

#### **APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM**

Please refer to the attached document E202409184352-test setup photo.

#### **APPENDIX B. PHOTOGRAPH OF THE EUT**

Please refer to the attached document E202409184352-EUT photo.

———— End of Report ————