

|                        |                               |
|------------------------|-------------------------------|
| Product Name: UC Phone | Report No: FCC022022-5527RF1  |
| Product Model: CP-8832 | Security Classification: Open |
| Version: V1.0          | Total Page:67                 |

## TIRT Testing Report



|              |             |              |                                                                                                                                |
|--------------|-------------|--------------|--------------------------------------------------------------------------------------------------------------------------------|
| Prepared By: | Checked By: | Approved By: | A circular blue stamp with the text "TIRT Technology Service Co., Ltd" around the perimeter and "TIRT Shenzhen" in the center. |
| Stone Tang   | Randy Lv    | Daniel Chen  |                                                                                                                                |
| Stone Tang   | Randy Lv    | Daniel chen  |                                                                                                                                |

# FCC Radio Test Report

## FCC ID: LDK88322678

This report concerns: Original Grant

**Project No.** : 022022-5527  
**Equipment** : UC Phone  
**Brand Name** : Cisco  
**Test Model** : CP-8832  
**Series Model** : N/A  
**Applicant** : Cisco Systems Inc.  
**Address** : 125 West Tasman Drive San Jose, CA 95134-1706 United States  
**Manufacturer** : Cisco Systems Inc.  
**Address** : 125 West Tasman Drive San Jose, CA 95134-1706 United States  
**Factory 1** : Shenzhen Fulian Fugui Precision Industry Co., Ltd. Communication & Network Solution Business Group  
**Address 1** : 3/F, D10 Building, F8d Area Foxconn Science and Technology Industrial Park, East side of Min Qing Road, Longhua Street Longhua District, Shenzhen Guangdong 518109 China  
**Factory 2** : Fuyu Precision Component Company Limited  
**Address 2** : Lot M1 and Lot F, Quang Chau Industrial Park, VanTrung Commune, Viet Yen District, Bac Giang Province, 26171, Vietnam  
**Date of Receipt** : 2022.06.24  
**Date of Test** : 2022.06.25 ~ 2022.10.17  
**Issued Date** : 2022.10.25  
**Report Version** : V1.0  
**Test Sample** : Engineering Sample No.: 20220624018684  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart C  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
ANSI C63.10-2013

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.

Add: 101,3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street,  
Pingshan District, Shenzhen, China

TEL: +86-0755-27087573

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**REPORT ISSUED HISTORY**

| Report No.        | Version | Description      | Issued Date | Note  |
|-------------------|---------|------------------|-------------|-------|
| FCC022022-5527RF1 | V1.0    | Original Report. | 2022.10.25  | Valid |

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| FCC CFR Title 47, Part 15, Subpart C |                                   |                                        |          |         |
|--------------------------------------|-----------------------------------|----------------------------------------|----------|---------|
| Standard(s) Section                  | Test Item                         | Test Result                            | Judgment | Remark  |
| 15.207                               | AC Power Line Conducted Emissions | APPENDIX A                             | PASS     | -----   |
| 15.247(d)<br>15.205(a)<br>15.209(a)  | Radiated Emissions                | APPENDIX B<br>APPENDIX C<br>APPENDIX D | PASS     | -----   |
| 15.247(a)(2)                         | Bandwidth                         | APPENDIX E                             | PASS     | -----   |
| 15.247(b)(3)                         | Maximum Output Power              | APPENDIX F                             | PASS     | -----   |
| 15.247(d)                            | Conducted Spurious Emissions      | APPENDIX G                             | PASS     | -----   |
| 15.247(e)                            | Power Spectral Density            | APPENDIX H                             | PASS     | -----   |
| 15.203                               | Antenna Requirement               | -----                                  | PASS     | Note(2) |

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

## 1.1 TEST FACILITY

|                                         |                                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Company:                                | Beijing TIRT Technology Service Co.,Ltd Shenzhen                                                                   |
| Address:                                | 101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China |
| CNAS Registration Number:               | CNAS L14158                                                                                                        |
| A2LA Registration Number:               | 6049.01                                                                                                            |
| FCC Accredited Lab. Designation Number: | CN1309                                                                                                             |
| FCC Test Firm Registration Number:      | 825524                                                                                                             |
| Telephone:                              | +86-0755-27087573                                                                                                  |

## 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The TIRT measurement uncertainty as below table:

| Uncertainty                                 |             |
|---------------------------------------------|-------------|
| Parameter                                   | Uncertainty |
| Occupied Channel Bandwidth                  | ±142.12 KHz |
| RF power conducted                          | ±0.74 dB    |
| RF power radiated                           | ±3.25dB     |
| Spurious emissions, conducted               | ±1.78dB     |
| Spurious emissions, radiated (30MHz~1GHz)   | ±4.6dB      |
| Spurious emissions, radiated (1GHz ~ 18GHz) | ±4.9dB      |
| Conduction Emissions(150kHz~30MHz)          | ±3.1 dB     |
| Humidity                                    | ±4.6%       |
| Temperature                                 | ±0.7°C      |
| Time                                        | ±1.25%      |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

## 1.3 TEST ENVIRONMENT CONDITIONS

| Test Item                           | Temperature | Humidity | Test Voltage | Tested By  |
|-------------------------------------|-------------|----------|--------------|------------|
| AC Power Line Conducted Emissions   | 24.2°C      | 56%      | AC 120V/60Hz | Stone Tang |
| Radiated Emissions-9kHz to 30 MHz   | 24.5°C      | 55%      | PoE 48V      | Stone Tang |
| Radiated Emissions-30MHz to 1000MHz | 24.5°C      | 55%      | PoE 48V      | Stone Tang |
| Radiated Emissions-Above 1000MHz    | 24.5°C      | 55%      | PoE 48V      | Stone Tang |
| Bandwidth                           | 24.4°C      | 54%      | PoE 12V      | Stone Tang |
| Maximum Output Power                | 24.4°C      | 54%      | PoE 12V      | Stone Tang |
| Conducted Spurious Emissions        | 24.4°C      | 54%      | PoE 12V      | Stone Tang |
| Power Spectral Density              | 24.4°C      | 54%      | PoE 12V      | Stone Tang |



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment               | UC Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Brand Name              | Cisco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Model              | CP-8832                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Series Model            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Model Difference(s)     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Power Source            | DC Voltage supplied from PoE Injector or AC adapter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Power Rating            | <p>1# Model: CP-8832-POE<br/>I/P: 44V~55V <math>\overline{\text{---}}</math>, 12.95W, 350mA<br/>O/P: 5V <math>\overline{\text{---}}</math> 2A or 12V <math>\overline{\text{---}}</math> 1A</p> <p>2# Model: AQ18A-59CFA<br/>I/P: 100-240V~ 50-60Hz 0.5A<br/>O/P: 5V <math>\overline{\text{---}}</math> 3.0A or 9V <math>\overline{\text{---}}</math> 2.0A or 12V <math>\overline{\text{---}}</math> 1.5A or 15V <math>\overline{\text{---}}</math> 1.2A</p> <p>3# Model: AN18V-59CFA<br/>I/P: 100-240V 0.5A 50-60Hz<br/>O/P: 5.0V <math>\overline{\text{---}}</math> 3.0A or 9.0V <math>\overline{\text{---}}</math> 2.0A or 12.0V <math>\overline{\text{---}}</math> 1.5A or 15.0V <math>\overline{\text{---}}</math> 1.2A</p> <p>4# Model: AN18V-59CB<br/>I/P: 100-240V 50-60Hz 0.5A<br/>O/P: 5V <math>\overline{\text{---}}</math> 3A or 9V <math>\overline{\text{---}}</math> 2A or 12V <math>\overline{\text{---}}</math> 1.5A</p> <p>5# Model: AN18A-59CB<br/>I/P: 100-240V~ 50-60Hz 0.5A<br/>O/P: 5V <math>\overline{\text{---}}</math> 3A or 9V <math>\overline{\text{---}}</math> 2A or 12V <math>\overline{\text{---}}</math> 1.5A</p> |
| Operation Frequency     | 2412 MHz ~ 2462 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Modulation Type         | IEEE 802.11b: DSSS<br>IEEE 802.11g: OFDM<br>IEEE 802.11n: OFDM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bit Rate of Transmitter | IEEE 802.11b: 11/5.5/2/1 Mbps<br>IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps<br>IEEE 802.11n: up to 72.2 Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum Output Power    | IEEE 802.11b: 23.98 dBm (0.2500 W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

| CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20) |                 |         |                 |         |                 |         |                 |
|----------------------------------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                                                        | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01                                                             | 2412            | 04      | 2427            | 07      | 2442            | 10      | 2457            |
| 02                                                             | 2417            | 05      | 2432            | 08      | 2447            | 11      | 2462            |
| 03                                                             | 2422            | 06      | 2437            | 09      | 2452            |         |                 |

3. Antenna Specification:

| Ant. | Brand                                                                                                            | P/N             | Antenna Type | Connector | Gain (dBi) |
|------|------------------------------------------------------------------------------------------------------------------|-----------------|--------------|-----------|------------|
| 1    | <br>Shanghai Amphend Airwaves | CI8226-15-000-R | PCB          | IPEX      | 4.1        |

Note:

1) The antenna gain is provided by the manufacturer.

## 2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

| Pretest Mode | Description                      |
|--------------|----------------------------------|
| Mode 1       | TX B Mode Channel 01/06/11       |
| Mode 2       | TX G Mode Channel 01/06/11       |
| Mode 3       | TX N(HT20) Mode Channel 01/06/11 |
| Mode 4       | TX B Mode Channel 06             |

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

| AC power line conducted emissions test |                      |
|----------------------------------------|----------------------|
| Final Test Mode                        | Description          |
| Mode 4                                 | TX B Mode Channel 06 |

| Radiated emissions test - Below 1GHz |                      |
|--------------------------------------|----------------------|
| Final Test Mode                      | Description          |
| Mode 4                               | TX B Mode Channel 06 |

| Radiated emissions test- Above 1GHz |                                  |
|-------------------------------------|----------------------------------|
| Final Test Mode                     | Description                      |
| Mode 1                              | TX B Mode Channel 01/06/11       |
| Mode 2                              | TX G Mode Channel 01/06/11       |
| Mode 3                              | TX N(HT20) Mode Channel 01/06/11 |

| Conducted test  |                                  |
|-----------------|----------------------------------|
| Final Test Mode | Description                      |
| Mode 1          | TX B Mode Channel 01/06/11       |
| Mode 2          | TX G Mode Channel 01/06/11       |
| Mode 3          | TX N(HT20) Mode Channel 01/06/11 |

**NOTE:**

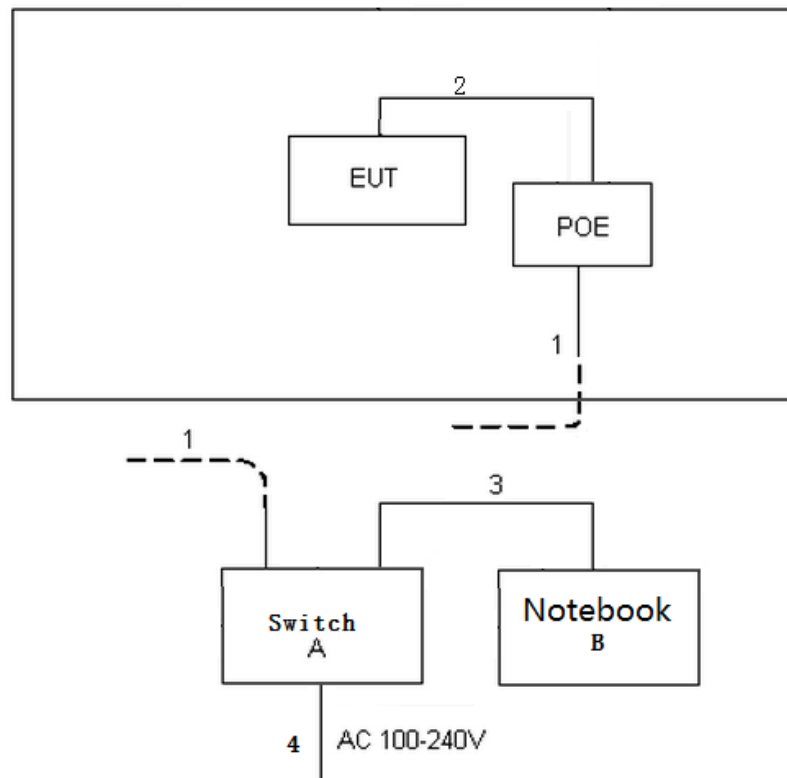
- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX B Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (4) For AC power line conducted emissions and radiated emissions below 1 GHz test, all adapters had been pre-tested and in this report only recorded the worst case.
- (5) For radiated emission above 1 GHz, the polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal and recorded.

**2.3 PARAMETERS OF TEST SOFTWARE**

| Test Software Version | IPOP V4.1 |      |      |
|-----------------------|-----------|------|------|
| Frequency (MHz)       | 2412      | 2437 | 2462 |
| IEEE 802.11b          | 74        | 84   | 77   |
| IEEE 802.11g          | 59        | 79   | 67.5 |
| IEEE 802.11n(HT20)    | 62.5      | 79.5 | 66.5 |

If duty cycle is  $\geq 98\%$ , duty factor is not required.  
If duty cycle is  $< 98\%$ , duty factor shall be considered.  
The output power = measured power + duty factor.

## 2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



## 2.6 SUPPORT UNITS

| Item | Equipment  | Brand         | Model No.      | Series No. |
|------|------------|---------------|----------------|------------|
| A    | Switch     | Cisco Systems | C1000-16P-2G-L | N/A        |
| B    | Control PC | Lenovo        | L450           | N/A        |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|------------|---------------|--------------|--------|
| 1    | RJ45 Cable | NO            | NO           | 10m    |
| 2    | DC Cable   | NO            | NO           | 1.8m   |
| 3    | RJ45 Cable | NO            | NO           | 1.5m   |
| 4    | AC Cable   | NO            | NO           | 1.5m   |

### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 LIMIT

| Frequency of Emission (MHz) | Limit (dB $\mu$ V) |           |
|-----------------------------|--------------------|-----------|
|                             | Quasi-peak         | Average   |
| 0.15 - 0.5                  | 66 to 56*          | 56 to 46* |
| 0.5 - 5.0                   | 56                 | 46        |
| 5.0 - 30.0                  | 60                 | 50        |

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

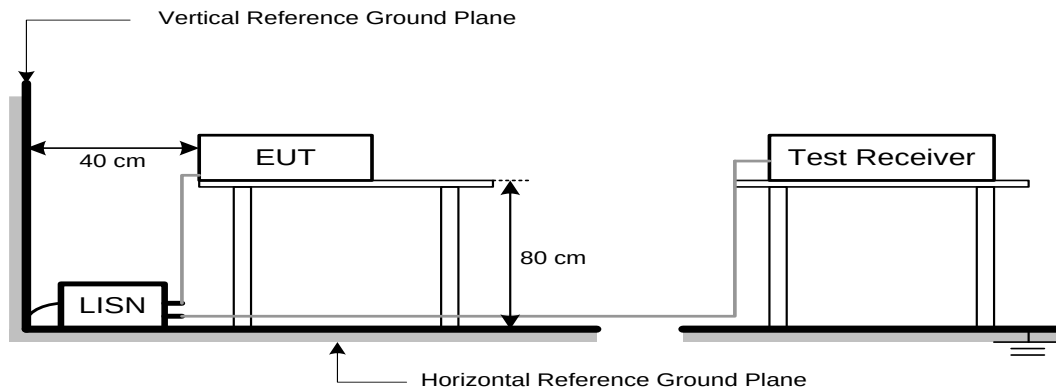
The following table is the setting of the receiver:

| Receiver Parameters | Setting  |
|---------------------|----------|
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

### 3.4 TEST SETUP



### 3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

### 3.6 TEST RESULTS

Please refer to the APPENDIX A.

## 4. RADIATED EMISSIONS

### 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300                           |
| 0.490-1.705     | 24000/F(kHz)                      | 30                            |
| 1.705-30.0      | 30                                | 30                            |
| 30-88           | 100                               | 3                             |
| 88-216          | 150                               | 3                             |
| 216-960         | 200                               | 3                             |
| Above 960       | 500                               | 3                             |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

| Frequency (MHz) | (dBuV/m at 3 m) |         |
|-----------------|-----------------|---------|
|                 | Peak            | Average |
| Above 1000      | 74              | 54      |

#### NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



## 4.2 TEST PROCEDURE

- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.  
(below 1 GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

| Spectrum Parameters    | Setting                         |
|------------------------|---------------------------------|
| Start ~ Stop Frequency | 9 kHz~150 kHz for RBW 200 Hz    |
| Start ~ Stop Frequency | 0.15 MHz~30 MHz for RBW 9 kHz   |
| Start ~ Stop Frequency | 30 MHz~1000 MHz for RBW 100 kHz |

| Spectrum Parameters                        | Setting                                                    |
|--------------------------------------------|------------------------------------------------------------|
| Start Frequency                            | 1000 MHz                                                   |
| Stop Frequency                             | 10th carrier harmonic                                      |
| RBW / VBW<br>(Emission in restricted band) | 1 MHz / 3 MHz for PK value<br>1 MHz / 1/T Hz for AVG value |

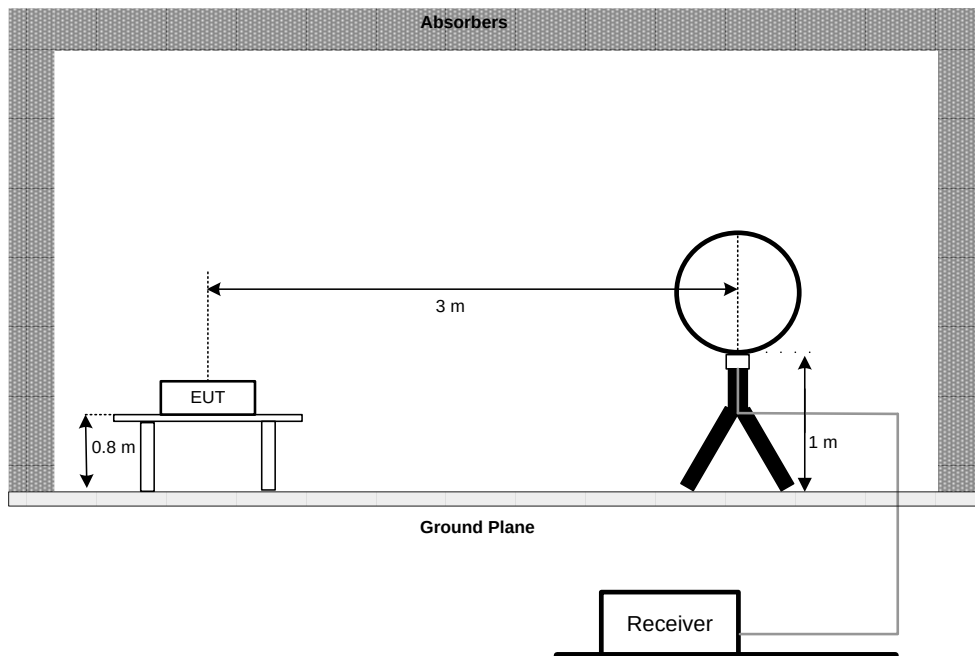
| Receiver Parameters    | Setting                             |
|------------------------|-------------------------------------|
| Start ~ Stop Frequency | 9 kHz~90 kHz for PK/AVG detector    |
| Start ~ Stop Frequency | 90 kHz~110 kHz for QP detector      |
| Start ~ Stop Frequency | 110 kHz~490 kHz for PK/AVG detector |
| Start ~ Stop Frequency | 490 kHz~30 MHz for QP detector      |
| Start ~ Stop Frequency | 30 MHz~1000 MHz for QP detector     |
| Start ~ Stop Frequency | 1 GHz~26.5 GHz for PK/AVG detector  |

#### 4.3 DEVIATION FROM TEST STANDARD

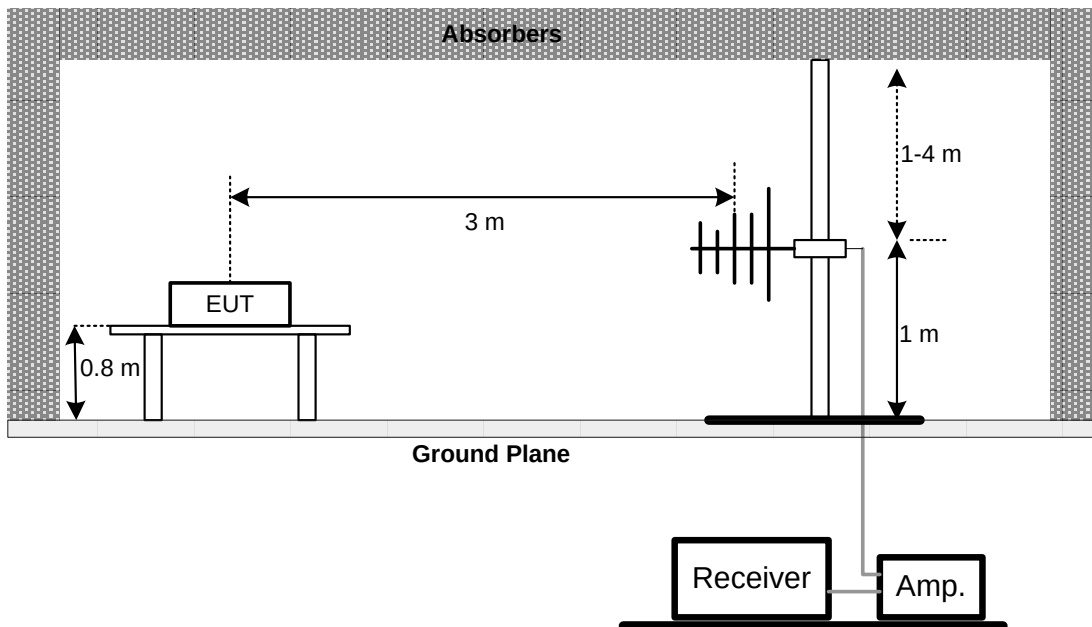
No deviation.

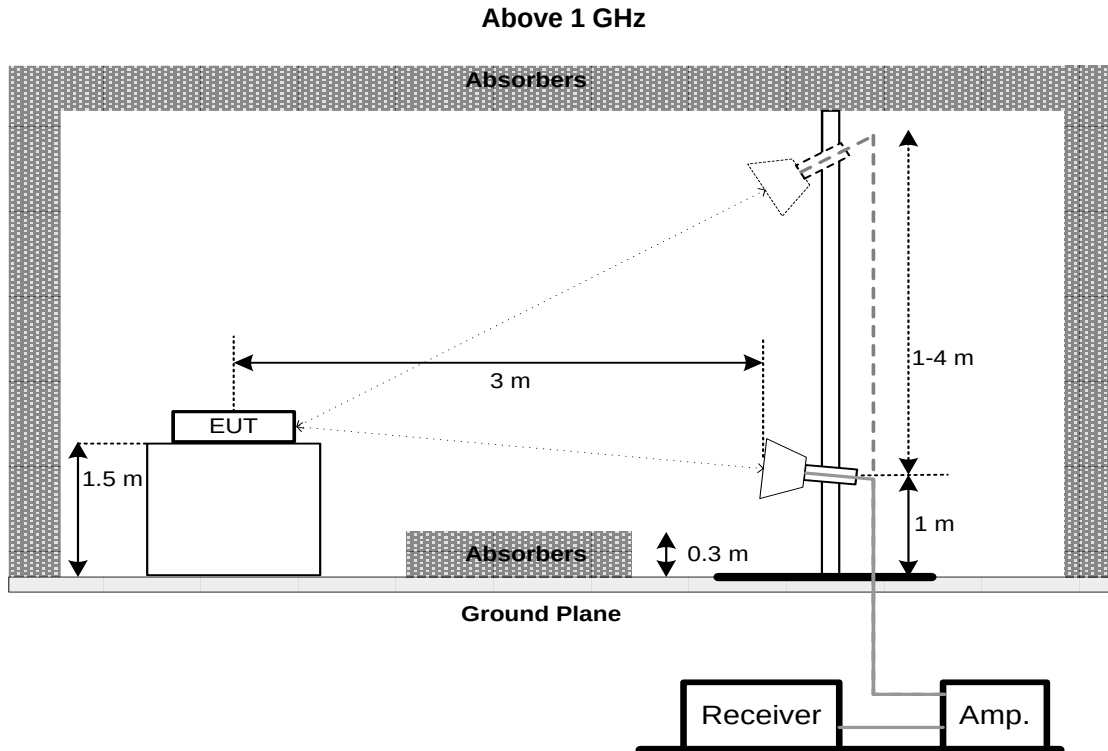
#### 4.4 TEST SETUP

##### 9 kHz to 30 MHz



##### 30 MHz to 1 GHz





#### 4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

#### 4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

#### 4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. BANDWIDTH

### 5.1 LIMIT

| Section          | Test Item              | Limit           |
|------------------|------------------------|-----------------|
| FCC 15.247(a)(2) | 6 dB Bandwidth         | Minimum 500 kHz |
|                  | 99% Emission Bandwidth | -               |

### 5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

| Spectrum Parameters | Setting                 |
|---------------------|-------------------------|
| Span Frequency      | > Measurement Bandwidth |
| RBW                 | 100 kHz                 |
| VBW                 | 300 kHz                 |
| Detector            | Peak                    |
| Trace               | Max Hold                |
| Sweep Time          | Auto                    |

For 99% Emission Bandwidth:

| Spectrum Parameters | Setting                                 |
|---------------------|-----------------------------------------|
| Span Frequency      | Between 1.5 times and 5.0 times the OBW |
| RBW                 | 300 kHz For 20MHz<br>1 MHz For 40MHz    |
| VBW                 | 1 MHz For 20MHz<br>3 MHz For 40MHz      |
| Detector            | Peak                                    |
| Trace               | Max Hold                                |
| Sweep Time          | Auto                                    |

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULTS

Please refer to the APPENDIX E.

## 6. MAXIMUM OUTPUT POWER

### 6.1 LIMIT

| Section          | Test Item            | Limit                    |
|------------------|----------------------|--------------------------|
| FCC 15.247(b)(3) | Maximum Output Power | 1.0000 Watt or 30.00 dBm |

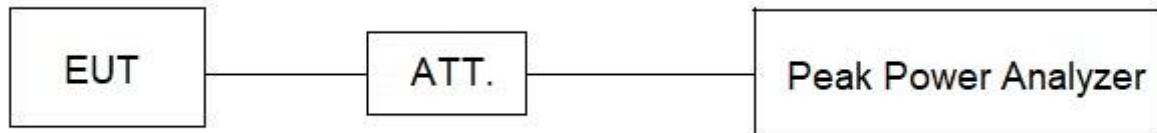
### 6.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULTS

Please refer to the APPENDIX F.

## 7. CONDUCTED SPURIOUS EMISSIONS

### 7.1 LIMIT

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 Output Power limits. If the transmitter complies with the Output 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 Section 15.209(a) is not required.

### 7.2 TEST PROCEDURE

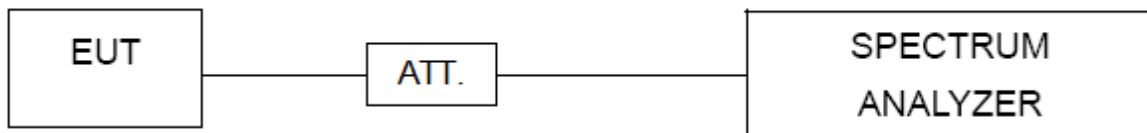
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting  |
|---------------------|----------|
| Start Frequency     | 30 MHz   |
| Stop Frequency      | 26.5 GHz |
| RBW                 | 100 kHz  |
| VBW                 | 300 kHz  |
| Detector            | Peak     |
| Trace               | Max Hold |
| Sweep Time          | Auto     |

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULTS

Please refer to the APPENDIX G.

## 8. POWER SPECTRAL DENSITY

### 8.1 LIMIT

| Section       | Test Item              | Limit                   |
|---------------|------------------------|-------------------------|
| FCC 15.247(e) | Power Spectral Density | 8 dBm<br>(in any 3 kHz) |

### 8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting                           |
|---------------------|-----------------------------------|
| Span Frequency      | 25 MHz (20 MHz) / 60 MHz (40 MHz) |
| RBW                 | 3 kHz                             |
| VBW                 | 10 kHz                            |
| Detector            | Peak                              |
| Trace               | Max Hold                          |
| Sweep Time          | Auto                              |

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 TEST RESULTS

Please refer to the APPENDIX H.

## 9. MEASUREMENT INSTRUMENTS LIST

| No. | Equipment              | Manufacturer  | Type No.            | Serial No.      | Calibrated until         |
|-----|------------------------|---------------|---------------------|-----------------|--------------------------|
| 1   | EMI Receiver           | Rohde&Schwarz | ESCI                | 1166.5950.03    | 2022/11/09               |
| 2   | AMN                    | Rohde&Schwarz | ENV216              | 3560.6550.05    | 2022/11/09               |
| 3   | AMN                    | Schwarzbeck   | NSLK8127            | #829            | 2022/11/09               |
| 4   | ECSI RF IN RF Cable    | Rohde&Schwarz | RP-X1               | N/A             | 2022/11/09               |
| 5   | ECSI RF IN RF Cable    | Rohde&Schwarz | Sapre sm            | N/A             | 2022/11/09               |
| 6   | EMI Receiver           | Rohde&Schwarz | ESR7                | 102013          | 2022/11/09               |
| 7   | Spectrum analyzer      | Rohde&Schwarz | FSV30               | 103741          | 2022/11/09               |
| 8   | Spectrum analyzer      | KEYSIGHT      | N9010A-44           | MY51440158      | 2022/11/09               |
| 9   | Integral Antenna       | Schwarzbeck   | VULB 9163           | VULB 9163-361   | 2022/11/20               |
| 10  | Integral Antenna       | Schwarzbeck   | BBHA 9120D          | BBHA 9120D 1201 | 2022/11/20               |
| 11  | Integral Antenna       | Schwarzbeck   | BBHA 9170           | 9170#685        | 2022/11/20               |
| 12  | Preamplifier           | Schwarzbeck   | BBV9745             | #78             | 2022/11/09               |
| 13  | Preamplifier           | Schwarzbeck   | BBV9721             | 9721-019        | 2022/11/09               |
| 14  | Preamplifier           | RF System/UK  | TRLA-01018 0G50B    | 22062101        | 2022/07/20<br>2023/07/20 |
| 15  | ECSI RF IN RF Cable    | Rohde&Schwarz | AP-X1               | N/A             | 2022/11/09               |
| 16  | ECSI RF IN RF Cable    | HAOXUN        | Z-108               | N/A             | 2022/11/09               |
| 17  | RF Cable               | ZDECL         | ZT40-2.92J-2.92J-6M | 18124358        | 2022/07/20<br>2023/07/20 |
| 18  | Spectrum Analyzer      | Agilent       | N9010A              | MY51440158      | 2022/11/09               |
| 19  | Spectrum Analyzer      | Agilent       | N9010A              | MY52221119      | 2022/11/09               |
| 20  | EMI Receiver           | Rohde&Schwarz | ESU                 | 100184          | 2022/07/20<br>2023/07/20 |
| 21  | Temp&Humidity Recorder | Anymetre      | JR900               | N/A             | 2022/11/03               |
| 22  | Temp&Humidity Chamber  | ETOMA         | NTH1100-30 A        | 16080628        | 2022/11/03               |
| 23  | Filter                 | STI           | STI15-9845          | N/A             | N/A                      |
| 24  | Filter                 | STI           | 5.1G                | N/A             | N/A                      |
| 25  | Filter                 | STI           | STI15-9845          | N/A             | N/A                      |
| 26  | Testing Software       | EZ-EMC        | TW-03A2             | N/A             | N/A                      |

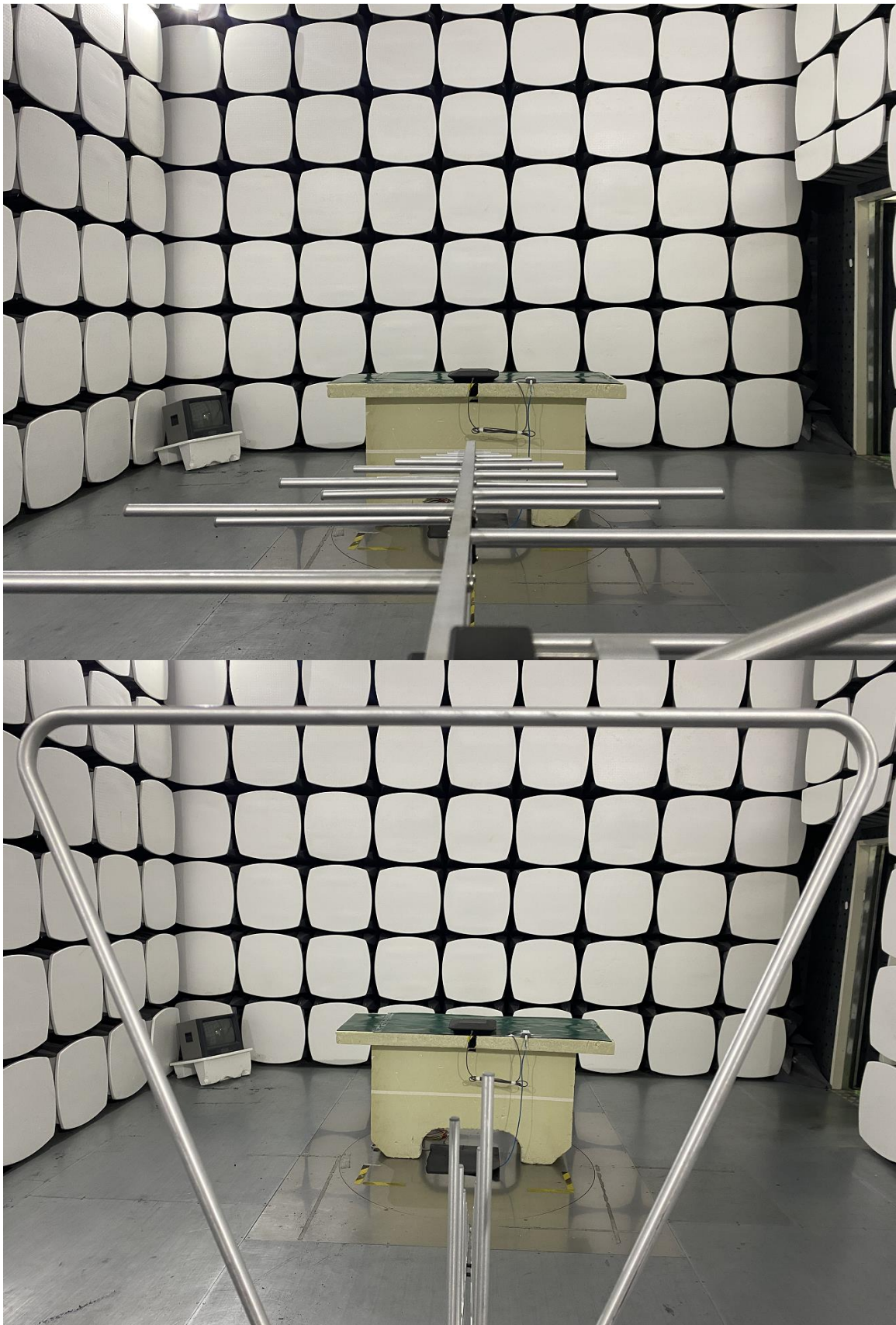
Remark: "N/A" denotes no model name, serial no. or calibration specified.

"\*\*" calibration period of equipment list is three year.

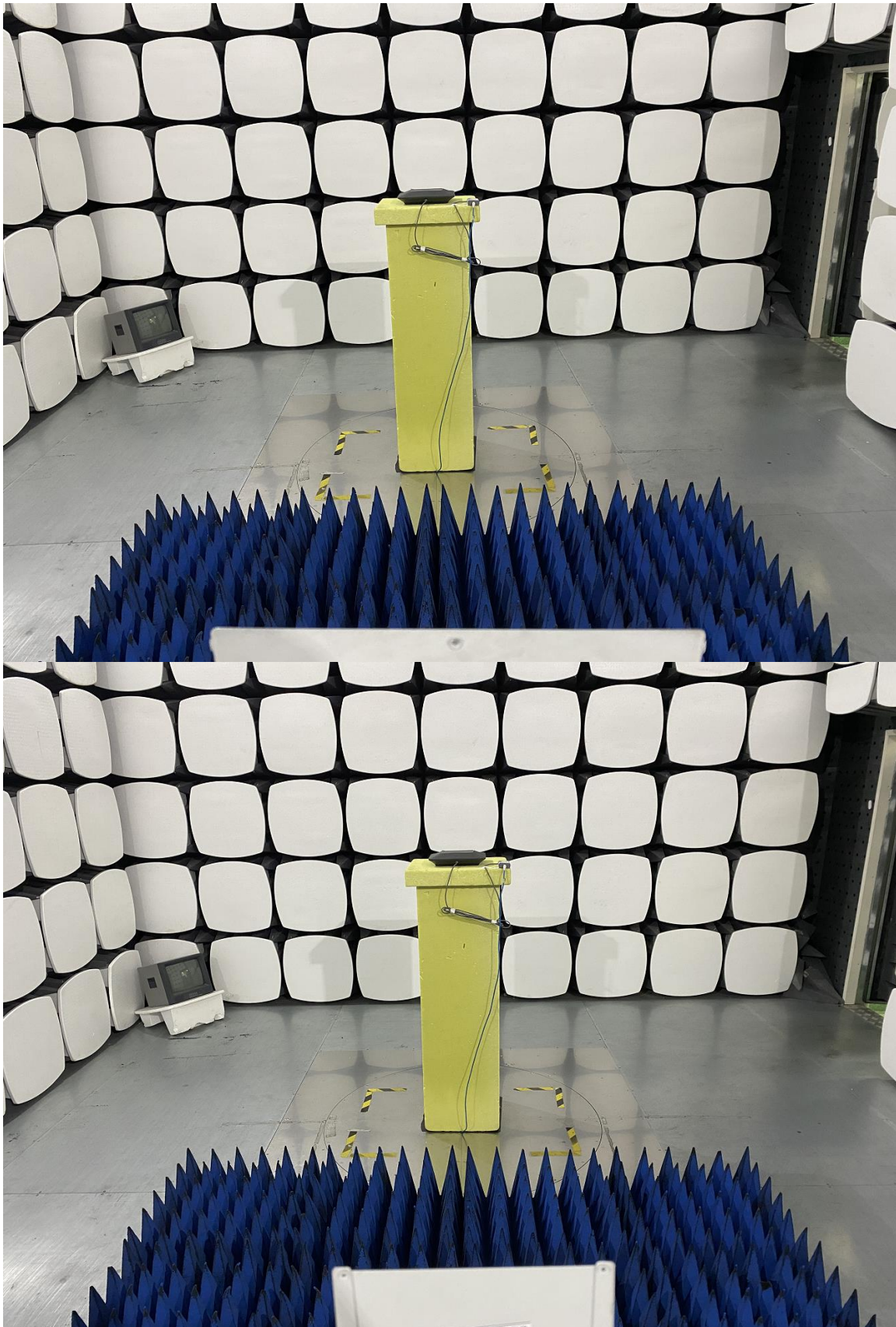
Except \* item, all calibration period of equipment list is one year.

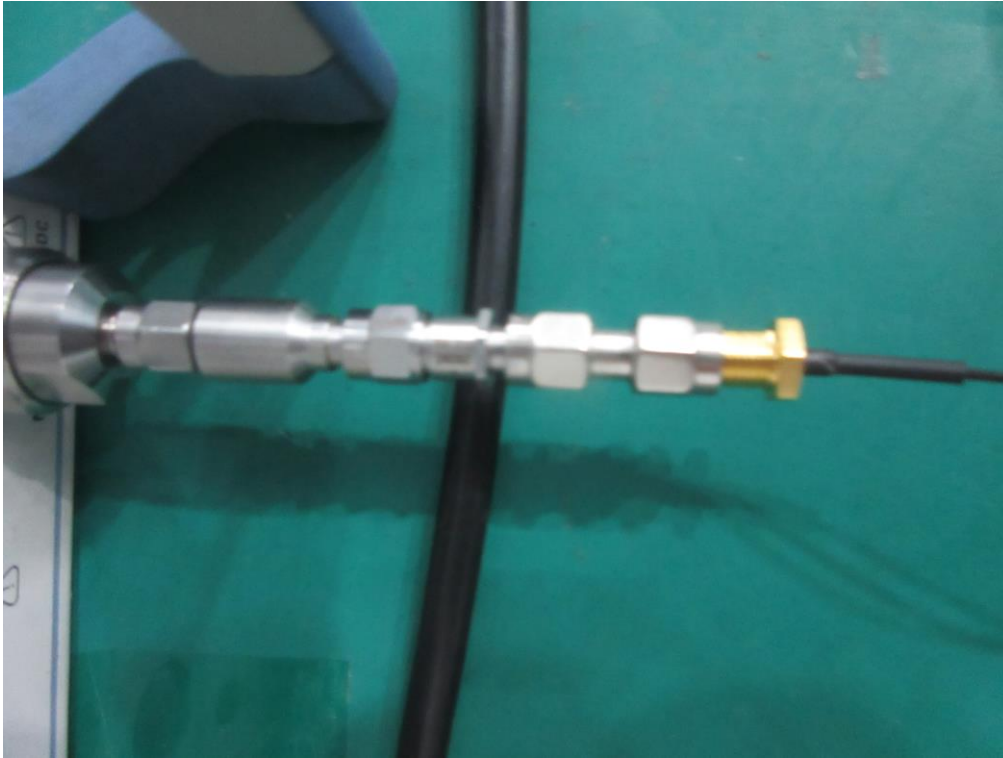


**10. EUT TEST PHOTO****AC Power Line Conducted Emissions Test Photos**

**Radiated Emissions Test Photos****30 MHz to 1 GHz**

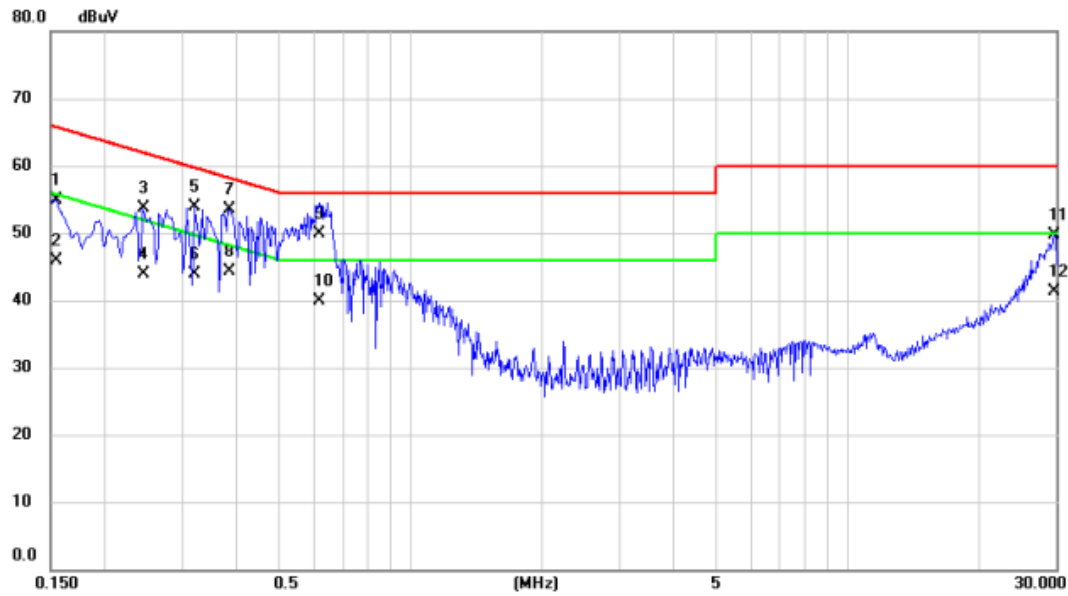


**Radiated Emissions Test Photos****Above 1 GHz**

**Conducted Test Photos**

## **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**

|           |                      |       |      |
|-----------|----------------------|-------|------|
| Test Mode | TX B Mode Channel 06 | Phase | Line |
|-----------|----------------------|-------|------|

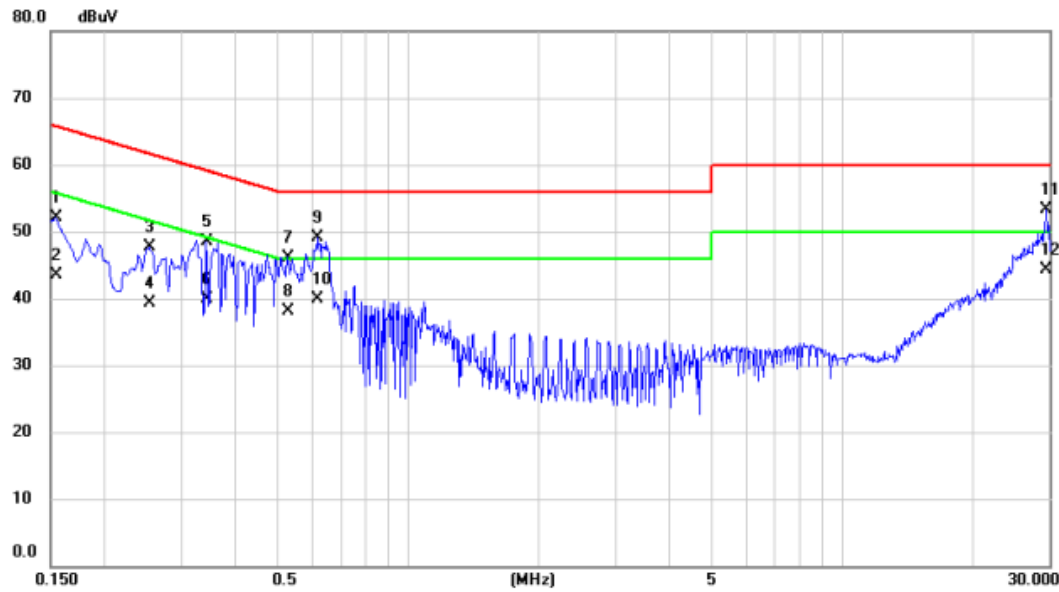


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1545       | 35.66                    | 19.28                   | 54.94                    | 65.75         | -10.81     | QP       |         |
| 2   |     | 0.1545       | 26.58                    | 19.28                   | 45.86                    | 55.75         | -9.89      | AVG      |         |
| 3   |     | 0.2445       | 34.45                    | 19.32                   | 53.77                    | 61.94         | -8.17      | QP       |         |
| 4   |     | 0.2445       | 24.58                    | 19.32                   | 43.90                    | 51.94         | -8.04      | AVG      |         |
| 5   |     | 0.3210       | 34.63                    | 19.32                   | 53.95                    | 59.68         | -5.73      | QP       |         |
| 6   |     | 0.3210       | 24.51                    | 19.32                   | 43.83                    | 49.68         | -5.85      | AVG      |         |
| 7   |     | 0.3840       | 34.25                    | 19.33                   | 53.58                    | 58.19         | -4.61      | QP       |         |
| 8   | *   | 0.3840       | 24.93                    | 19.33                   | 44.26                    | 48.19         | -3.93      | AVG      |         |
| 9   |     | 0.6180       | 30.62                    | 19.37                   | 49.99                    | 56.00         | -6.01      | QP       |         |
| 10  |     | 0.6180       | 20.52                    | 19.37                   | 39.89                    | 46.00         | -6.11      | AVG      |         |
| 11  |     | 29.6880      | 28.59                    | 21.06                   | 49.65                    | 60.00         | -10.35     | QP       |         |
| 12  |     | 29.6880      | 20.15                    | 21.06                   | 41.21                    | 50.00         | -8.79      | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                      |       |         |
|-----------|----------------------|-------|---------|
| Test Mode | TX B Mode Channel 06 | Phase | Neutral |
|-----------|----------------------|-------|---------|



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1545       | 32.55                    | 19.48                   | 52.03                    | 65.75         | -13.72     | QP       |         |
| 2   |     | 0.1545       | 23.93                    | 19.48                   | 43.41                    | 55.75         | -12.34     | AVG      |         |
| 3   |     | 0.2535       | 28.14                    | 19.48                   | 47.62                    | 61.64         | -14.02     | QP       |         |
| 4   |     | 0.2535       | 19.87                    | 19.48                   | 39.35                    | 51.64         | -12.29     | AVG      |         |
| 5   |     | 0.3435       | 29.09                    | 19.50                   | 48.59                    | 59.12         | -10.53     | QP       |         |
| 6   |     | 0.3435       | 20.47                    | 19.50                   | 39.97                    | 49.12         | -9.15      | AVG      |         |
| 7   |     | 0.5280       | 26.62                    | 19.58                   | 46.20                    | 56.00         | -9.80      | QP       |         |
| 8   |     | 0.5280       | 18.62                    | 19.58                   | 38.20                    | 46.00         | -7.80      | AVG      |         |
| 9   |     | 0.6180       | 29.41                    | 19.60                   | 49.01                    | 56.00         | -6.99      | QP       |         |
| 10  |     | 0.6180       | 20.32                    | 19.60                   | 39.92                    | 46.00         | -6.08      | AVG      |         |
| 11  |     | 29.5620      | 32.58                    | 20.76                   | 53.34                    | 60.00         | -6.66      | QP       |         |
| 12  | *   | 29.5620      | 23.60                    | 20.76                   | 44.36                    | 50.00         | -5.64      | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

Radiated emission: 9KHz-30MHz

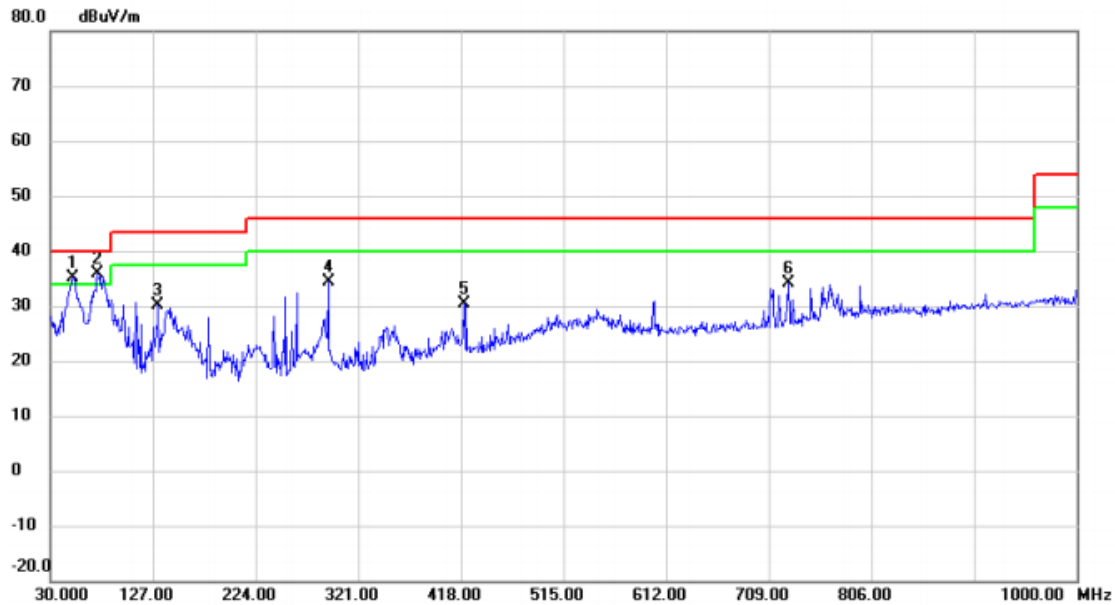
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.



## **APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ**

|           |                      |              |          |
|-----------|----------------------|--------------|----------|
| Test Mode | TX B Mode Channel 06 | Polarization | Vertical |
|-----------|----------------------|--------------|----------|



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 !     | 51.340       | 20.55                    | 14.61                   | 35.16                      | 40.00           | -4.84        | peak     |         |
| 2 *     | 74.620       | 21.14                    | 14.72                   | 35.86                      | 40.00           | -4.14        | peak     |         |
| 3       | 131.850      | 15.31                    | 14.92                   | 30.23                      | 43.50           | -13.27       | peak     |         |
| 4       | 292.870      | 16.68                    | 17.71                   | 34.39                      | 46.00           | -11.61       | peak     |         |
| 5       | 420.910      | 11.12                    | 19.37                   | 30.49                      | 46.00           | -15.51       | peak     |         |
| 6       | 727.430      | 9.32                     | 24.72                   | 34.04                      | 46.00           | -11.96       | peak     |         |

# REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|           |                      |              |            |
|-----------|----------------------|--------------|------------|
| Test Mode | TX B Mode Channel 06 | Polarization | Horizontal |
|-----------|----------------------|--------------|------------|



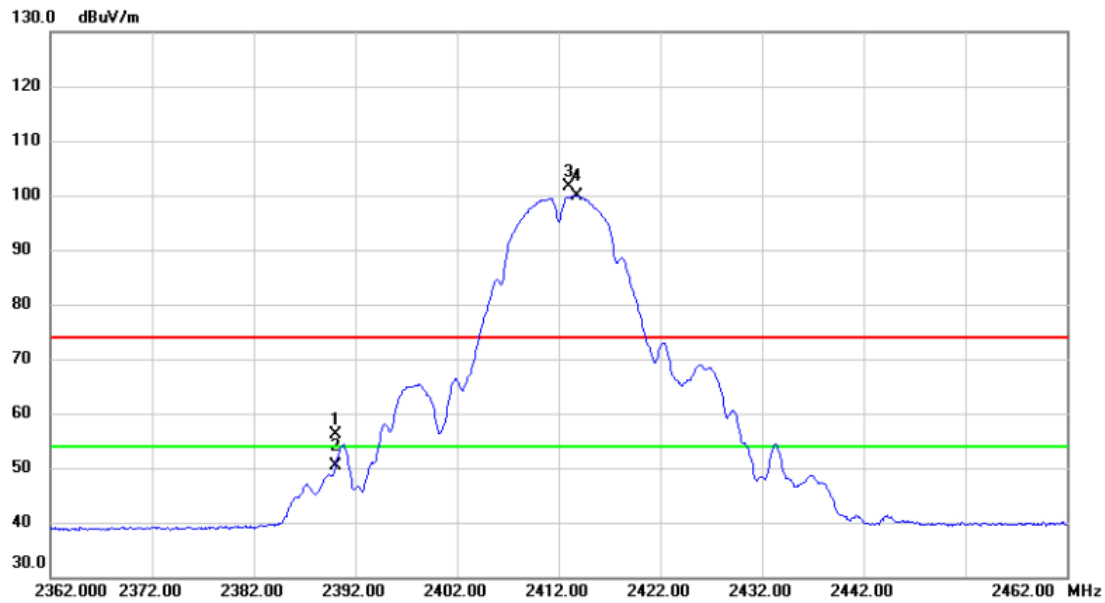
| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 *     | 53.280       | 20.66                    | 11.78                   | 32.44                      | 40.00           | -7.56        | peak     |         |
| 2       | 65.890       | 17.65                    | 12.03                   | 29.68                      | 40.00           | -10.32       | peak     |         |
| 3       | 143.490      | 12.74                    | 13.20                   | 25.94                      | 43.50           | -17.56       | peak     |         |
| 4       | 290.930      | 15.57                    | 17.71                   | 33.28                      | 46.00           | -12.72       | peak     |         |
| 5       | 515.000      | 11.81                    | 21.50                   | 33.31                      | 46.00           | -12.69       | peak     |         |
| 6       | 727.430      | 9.13                     | 24.72                   | 33.85                      | 46.00           | -12.15       | peak     |         |

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ**

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX B Mode 2412 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|

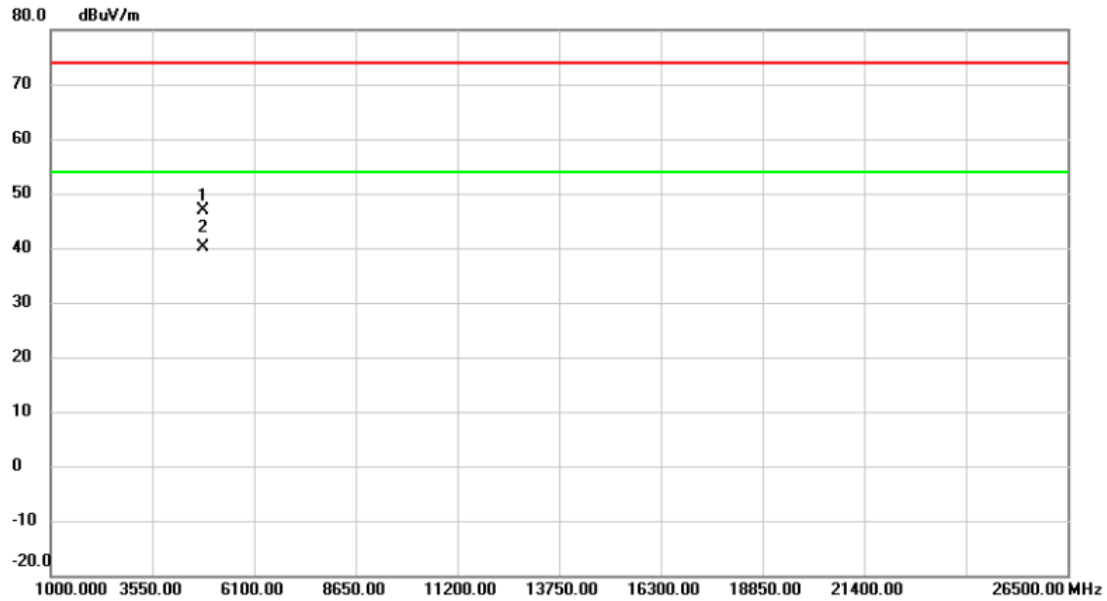


| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1       | 2390.000     | 23.61                    | 32.63                   | 56.24                      | 74.00           | -17.76     | peak     |          |
| 2       | 2390.000     | 17.77                    | 32.63                   | 50.40                      | 54.00           | -3.60      | AVG      |          |
| 3 X     | 2413.000     | 68.97                    | 32.71                   | 101.68                     | 74.00           | 27.68      | peak     | No Limit |
| 4 *     | 2413.800     | 67.16                    | 32.72                   | 99.88                      | 54.00           | 45.88      | AVG      | No Limit |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX B Mode 2412 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|



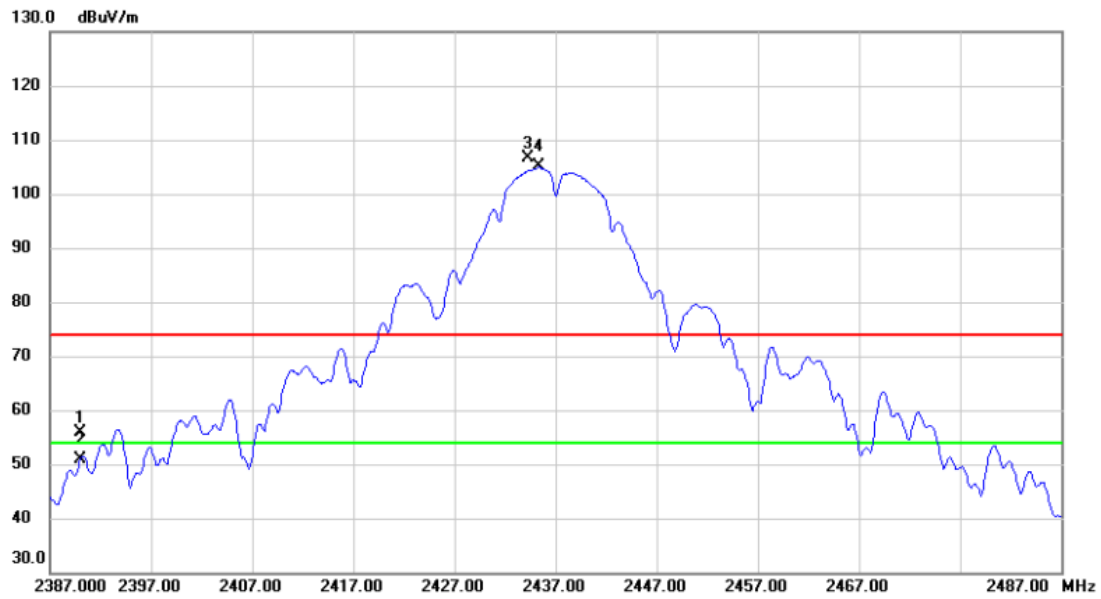
| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1       | 4823.955     | 61.38                    | -14.43                  | 46.95                      | 74.00           | -27.05     | peak     |         |
| 2 *     | 4823.990     | 54.60                    | -14.43                  | 40.17                      | 54.00           | -13.83     | AVG      |         |

# REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX B Mode 2437 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|

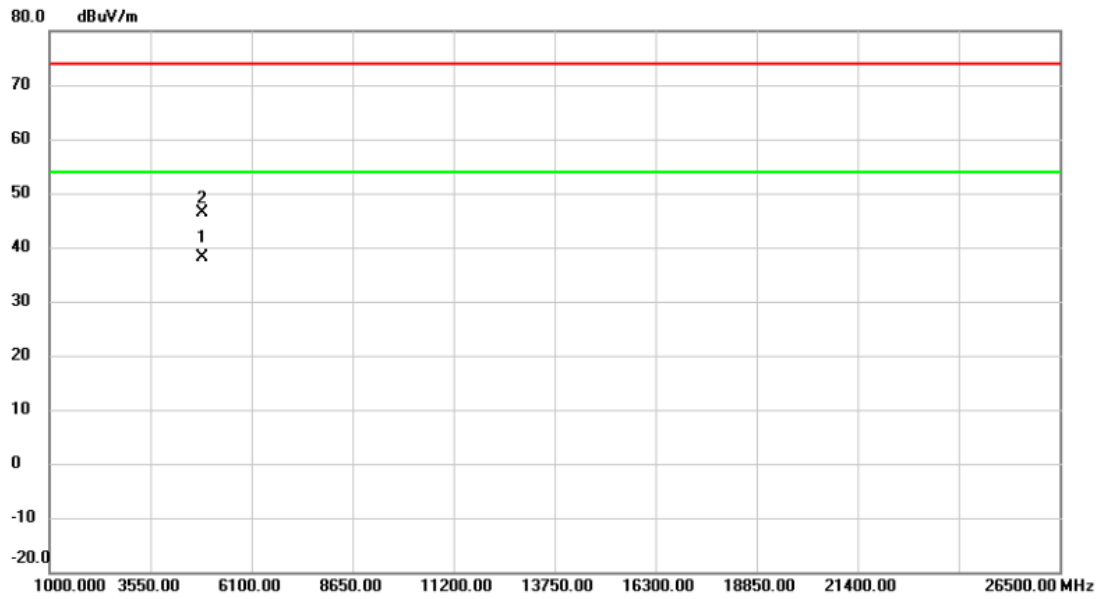


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment  |
| 1   |     | 2390.000 | 23.17         | 32.63          | 55.80       | 74.00  | -18.20 | peak     |          |
| 2   |     | 2390.000 | 18.28         | 32.63          | 50.91       | 54.00  | -3.09  | AVG      |          |
| 3   | X   | 2434.300 | 73.78         | 32.80          | 106.58      | 74.00  | 32.58  | peak     | No Limit |
| 4   | *   | 2435.300 | 72.22         | 32.80          | 105.02      | 54.00  | 51.02  | AVG      | No Limit |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX B Mode 2437 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|



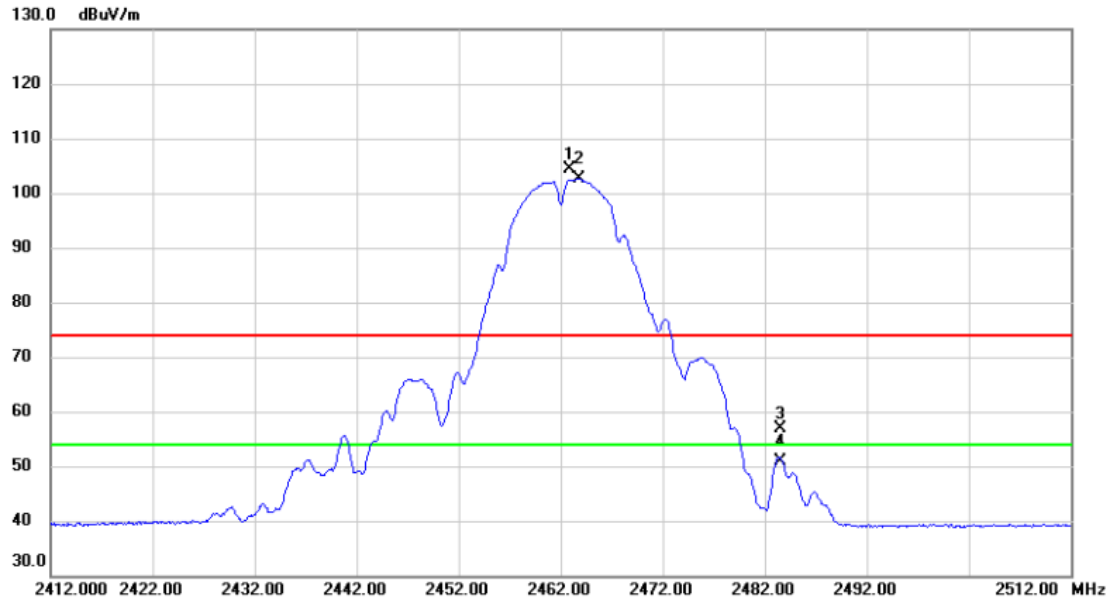
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 4873.950 | 52.51         | -14.26         | 38.25       | 54.00  | -15.75 | AVG      |         |
| 2   |     | 4873.990 | 60.76         | -14.26         | 46.50       | 74.00  | -27.50 | peak     |         |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX B Mode 2462 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|

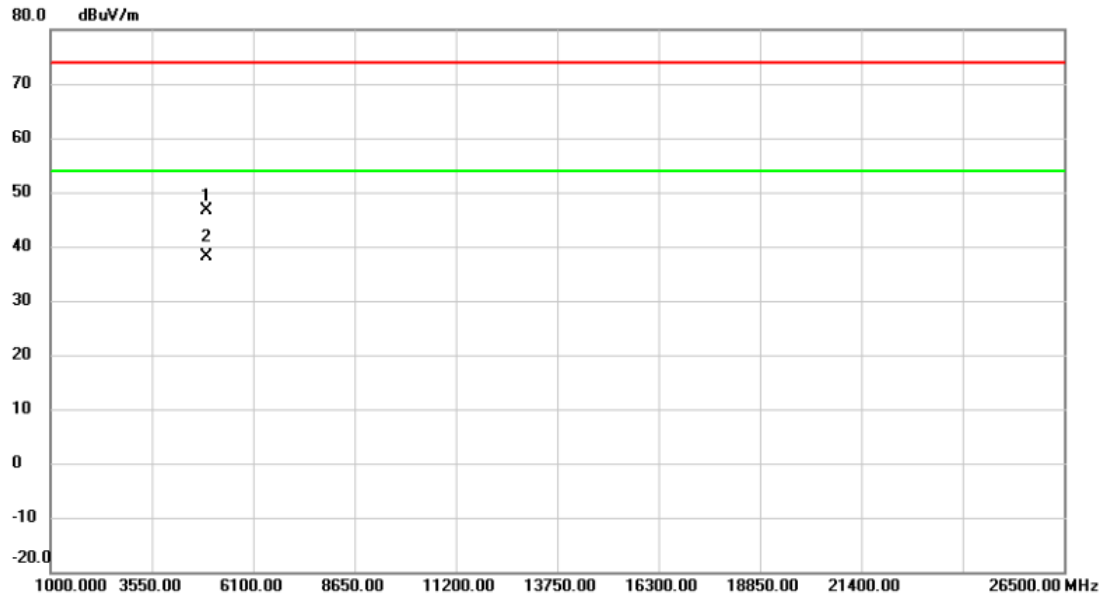


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1   | X   | 2462.900     | 71.53                    | 32.90                   | 104.43                     | 74.00           | 30.43      | peak     | No Limit |
| 2   | *   | 2463.800     | 69.72                    | 32.90                   | 102.62                     | 54.00           | 48.62      | AVG      | No Limit |
| 3   |     | 2483.500     | 23.89                    | 32.97                   | 56.86                      | 74.00           | -17.14     | peak     |          |
| 4   |     | 2483.500     | 17.87                    | 32.97                   | 50.84                      | 54.00           | -3.16      | AVG      |          |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX B Mode 2462 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|



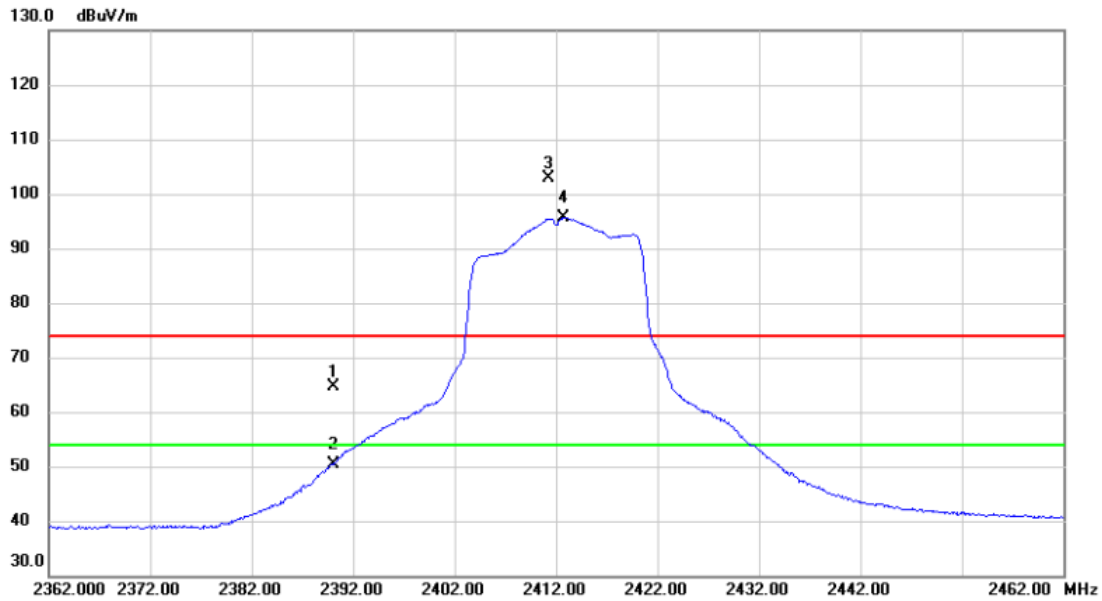
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4923.975     | 60.63                    | -14.08                  | 46.55                      | 74.00           | -27.45     | peak     |         |
| 2   | *   | 4924.000     | 52.19                    | -14.08                  | 38.11                      | 54.00           | -15.89     | AVG      |         |

# REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX G Mode 2412 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|

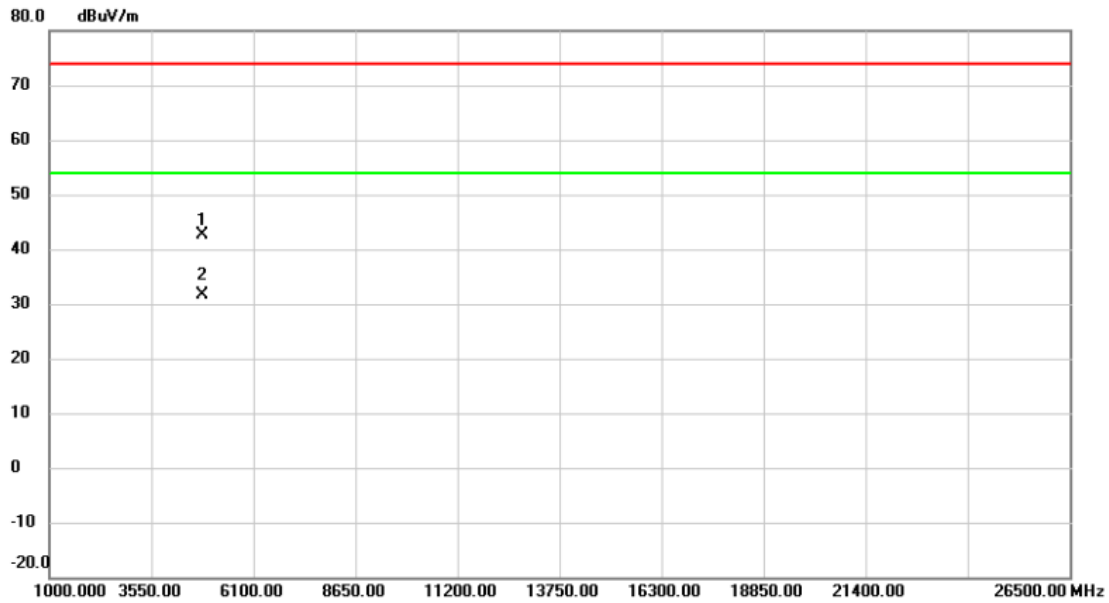


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1   |     | 2390.000     | 32.07                    | 32.63                   | 64.70                      | 74.00           | -9.30      | peak     |          |
| 2   |     | 2390.000     | 17.83                    | 32.63                   | 50.46                      | 54.00           | -3.54      | AVG      |          |
| 3   | X   | 2411.300     | 70.19                    | 32.70                   | 102.89                     | 74.00           | 28.89      | peak     | No Limit |
| 4   | *   | 2412.700     | 62.99                    | 32.71                   | 95.70                      | 54.00           | 41.70      | AVG      | No Limit |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX G Mode 2412 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|

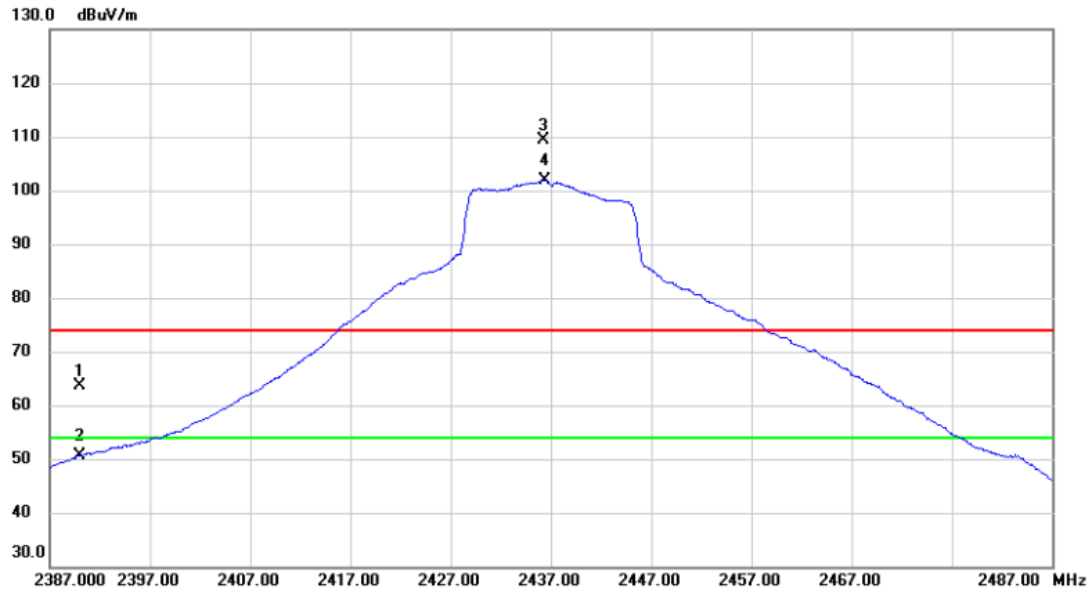


| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1       | 4823.315     | 57.03                    | -14.43                  | 42.60                      | 74.00           | -31.40     | peak     |         |
| 2 *     | 4825.415     | 46.01                    | -14.41                  | 31.60                      | 54.00           | -22.40     | AVG      |         |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX G Mode 2437 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|

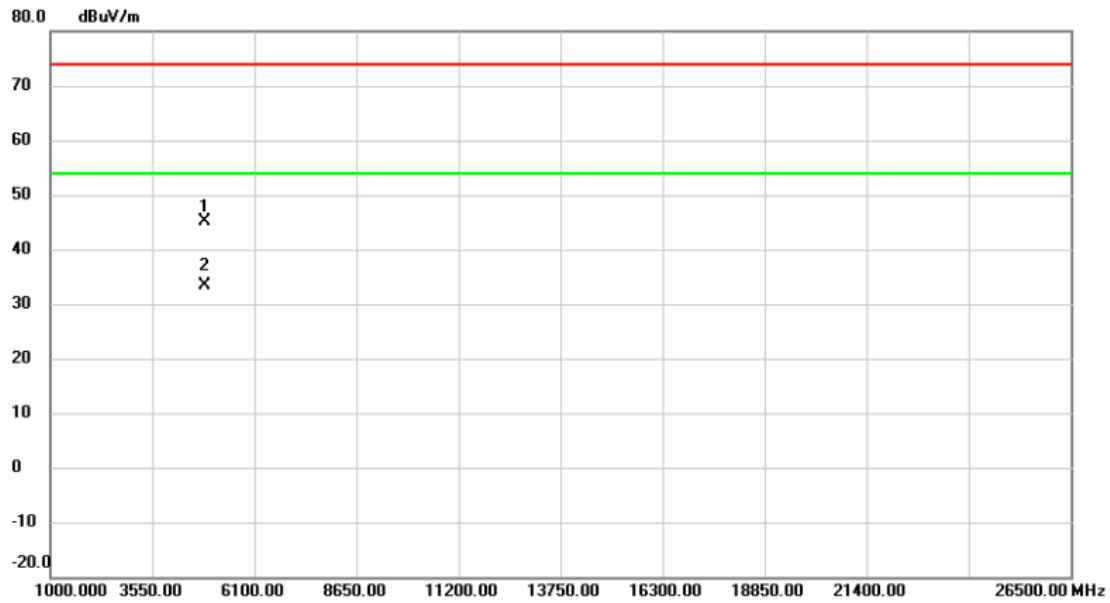


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1   |     | 2390.000     | 31.08                    | 32.63                   | 63.71                      | 74.00           | -10.29     | peak     |          |
| 2   |     | 2390.000     | 17.98                    | 32.63                   | 50.61                      | 54.00           | -3.39      | AVG      |          |
| 3   | X   | 2436.300     | 76.50                    | 32.80                   | 109.30                     | 74.00           | 35.30      | peak     | No Limit |
| 4   | *   | 2436.400     | 69.17                    | 32.80                   | 101.97                     | 54.00           | 47.97      | AVG      | No Limit |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX G Mode 2437 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|

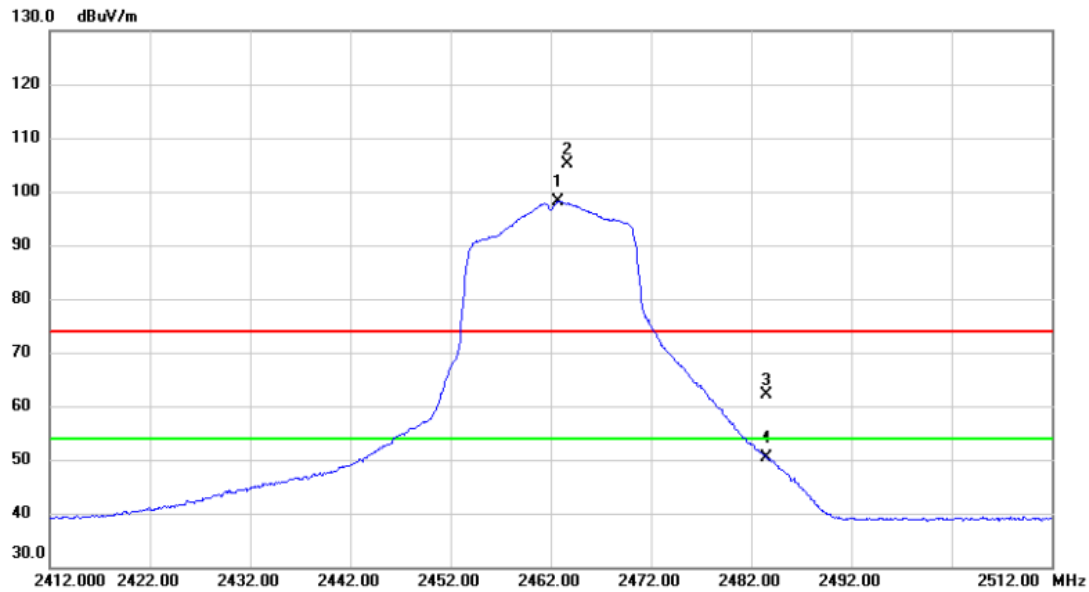


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4874.680 | 59.36         | -14.26         | 45.10       | 74.00  | -28.90 | peak     |         |
| 2   | *   | 4875.380 | 47.70         | -14.23         | 33.47       | 54.00  | -20.53 | AVG      |         |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX G Mode 2462 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|

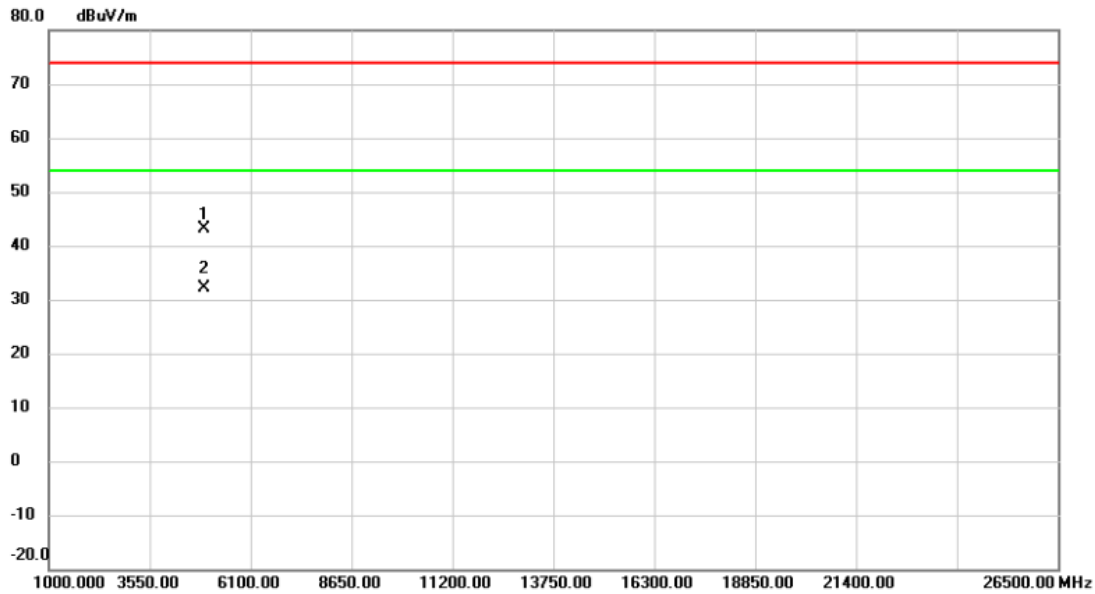


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1   | *   | 2462.700     | 65.34                    | 32.90                   | 98.24                      | 54.00           | 44.24      | AVG      | No Limit |
| 2   | X   | 2463.700     | 72.34                    | 32.90                   | 105.24                     | 74.00           | 31.24      | peak     | No Limit |
| 3   |     | 2483.500     | 29.13                    | 32.97                   | 62.10                      | 74.00           | -11.90     | peak     |          |
| 4   |     | 2483.500     | 17.49                    | 32.97                   | 50.46                      | 54.00           | -3.54      | AVG      |          |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                    |              |            |
|-----------|--------------------|--------------|------------|
| Test Mode | TX G Mode 2462 MHz | Polarization | Horizontal |
|-----------|--------------------|--------------|------------|



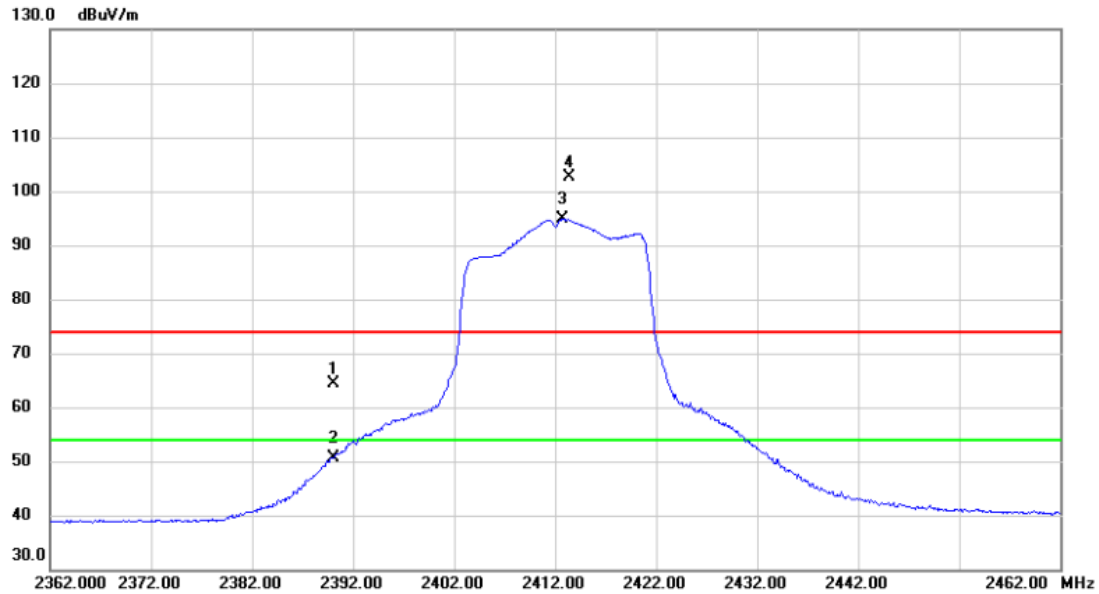
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4924.550     | 57.20                    | -14.08                  | 43.12                      | 74.00           | -30.88     | peak     |         |
| 2   | *   | 4925.390     | 46.08                    | -14.06                  | 32.02                      | 54.00           | -21.98     | AVG      |         |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



|           |                          |              |            |
|-----------|--------------------------|--------------|------------|
| Test Mode | TX N(HT20) Mode 2412 MHz | Polarization | Horizontal |
|-----------|--------------------------|--------------|------------|

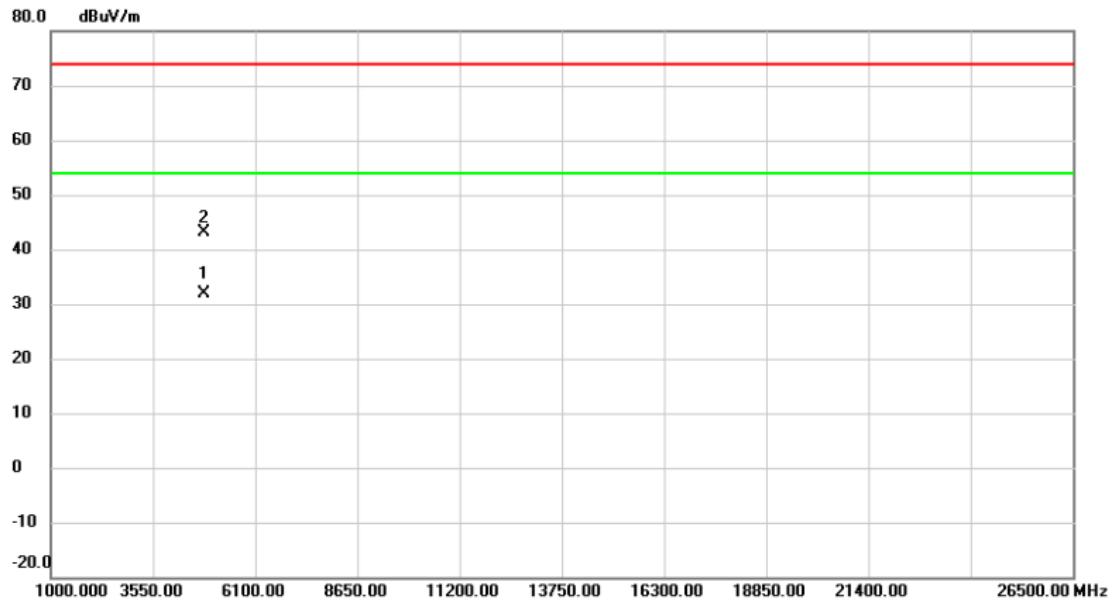


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1   |     | 2390.000     | 31.69                    | 32.63                   | 64.32                      | 74.00           | -9.68      | peak     |          |
| 2   |     | 2390.000     | 17.92                    | 32.63                   | 50.55                      | 54.00           | -3.45      | AVG      |          |
| 3   | *   | 2412.700     | 62.24                    | 32.71                   | 94.95                      | 54.00           | 40.95      | AVG      | No Limit |
| 4   | X   | 2413.400     | 69.98                    | 32.72                   | 102.70                     | 74.00           | 28.70      | peak     | No Limit |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                          |              |            |
|-----------|--------------------------|--------------|------------|
| Test Mode | TX N(HT20) Mode 2412 MHz | Polarization | Horizontal |
|-----------|--------------------------|--------------|------------|

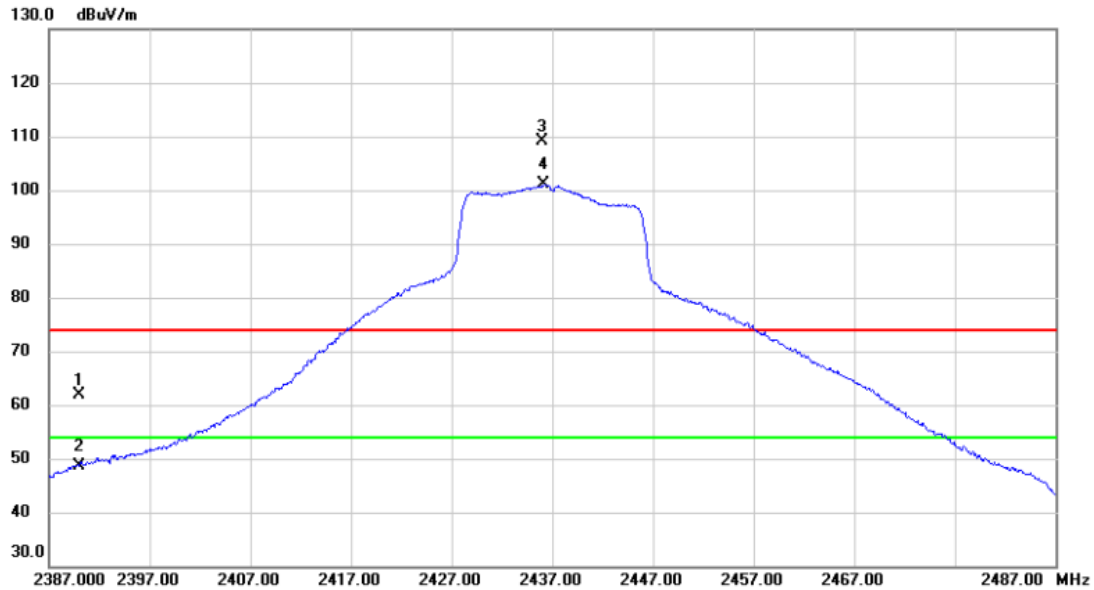


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 4825.165 | 46.32         | -14.41         | 31.91       | 54.00  | -22.09 | AVG      |         |
| 2   |     | 4825.880 | 57.63         | -14.41         | 43.22       | 74.00  | -30.78 | peak     |         |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                          |              |            |
|-----------|--------------------------|--------------|------------|
| Test Mode | TX N(HT20) Mode 2437 MHz | Polarization | Horizontal |
|-----------|--------------------------|--------------|------------|

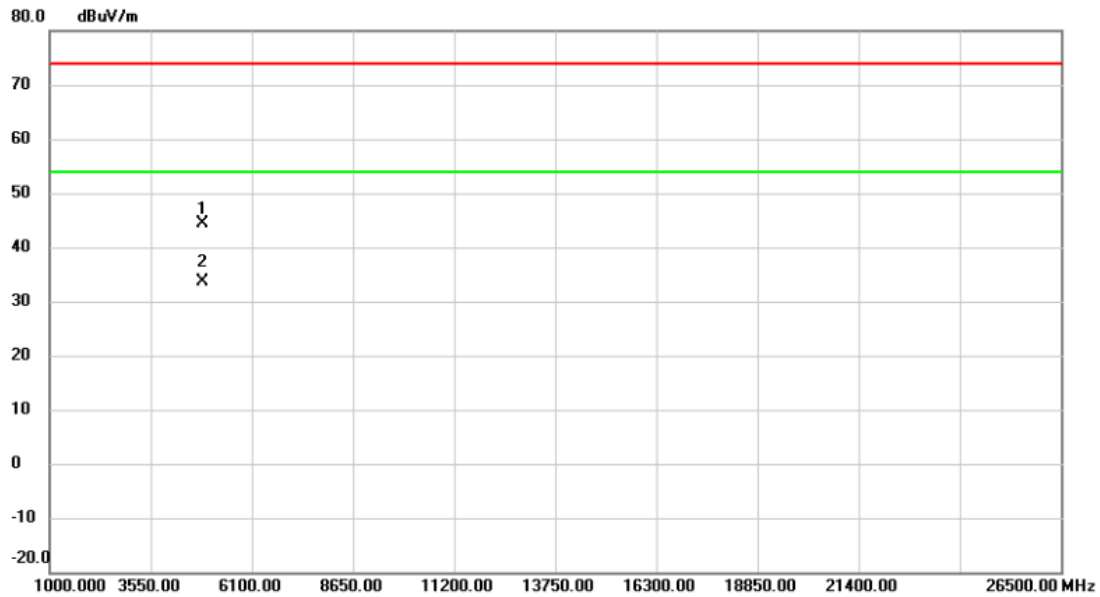


| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1       | 2390.000     | 29.15                    | 32.63                   | 61.78                      | 74.00           | -12.22     | peak     |          |
| 2       | 2390.000     | 15.92                    | 32.63                   | 48.55                      | 54.00           | -5.45      | AVG      |          |
| 3 X     | 2436.000     | 76.38                    | 32.80                   | 109.18                     | 74.00           | 35.18      | peak     | No Limit |
| 4 *     | 2436.200     | 68.25                    | 32.80                   | 101.05                     | 54.00           | 47.05      | AVG      | No Limit |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                          |              |            |
|-----------|--------------------------|--------------|------------|
| Test Mode | TX N(HT20) Mode 2437 MHz | Polarization | Horizontal |
|-----------|--------------------------|--------------|------------|

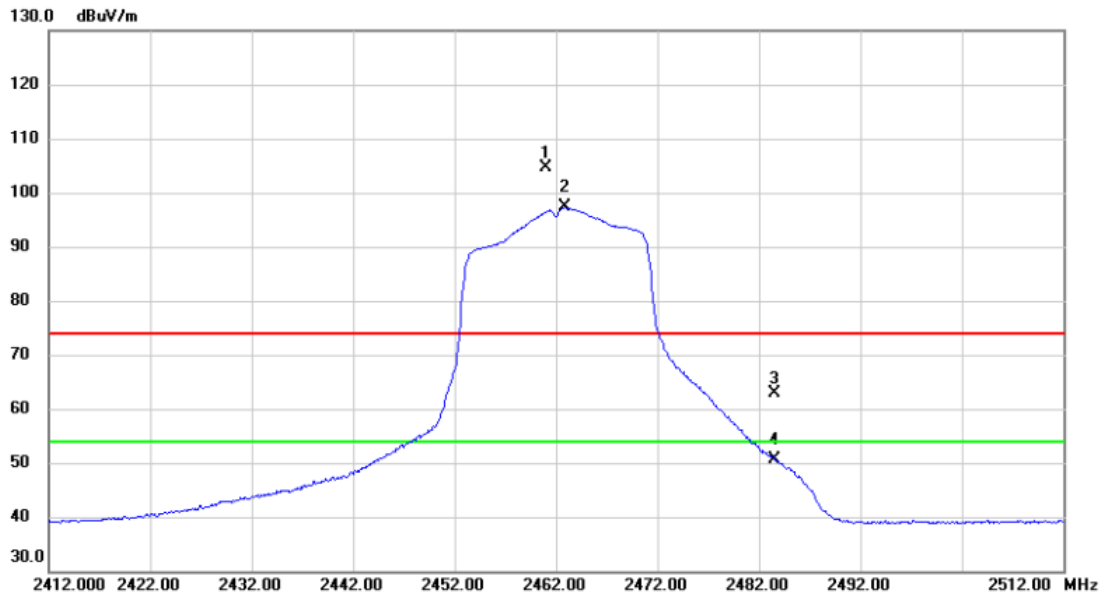


| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1       | 4874.050     | 58.58                    | -14.26                  | 44.32                      | 74.00           | -29.68     | peak     |         |
| 2 *     | 4875.535     | 47.89                    | -14.23                  | 33.66                      | 54.00           | -20.34     | AVG      |         |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                          |              |            |
|-----------|--------------------------|--------------|------------|
| Test Mode | TX N(HT20) Mode 2462 MHz | Polarization | Horizontal |
|-----------|--------------------------|--------------|------------|



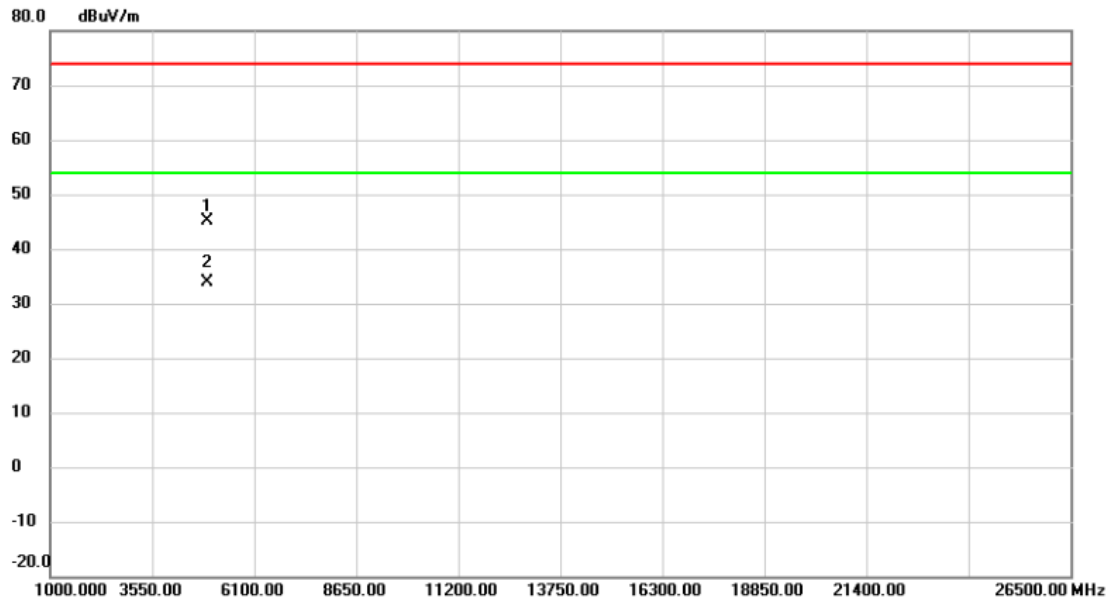
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1   | X   | 2461.000     | 71.82                    | 32.88                   | 104.70                     | 74.00           | 30.70      | peak     | No Limit |
| 2   | *   | 2462.800     | 64.38                    | 32.90                   | 97.28                      | 54.00           | 43.28      | AVG      | No Limit |
| 3   |     | 2483.500     | 29.99                    | 32.97                   | 62.96                      | 74.00           | -11.04     | peak     |          |
| 4   |     | 2483.500     | 17.69                    | 32.97                   | 50.66                      | 54.00           | -3.34      | AVG      |          |

**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|           |                          |              |            |
|-----------|--------------------------|--------------|------------|
| Test Mode | TX N(HT20) Mode 2462 MHz | Polarization | Horizontal |
|-----------|--------------------------|--------------|------------|



| No. Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|---------|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|         | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1       | 4923.855 | 59.12         | -14.08         | 45.04       | 74.00  | -28.96 | peak     |         |
| 2 *     | 4924.565 | 47.98         | -14.08         | 33.90       | 54.00  | -20.10 | AVG      |         |

# REMARKS:

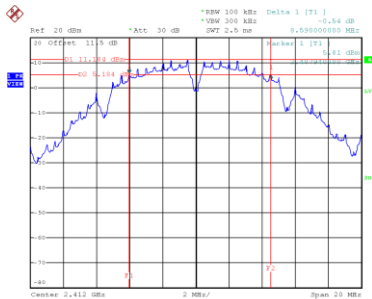
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIX E - BANDWIDTH

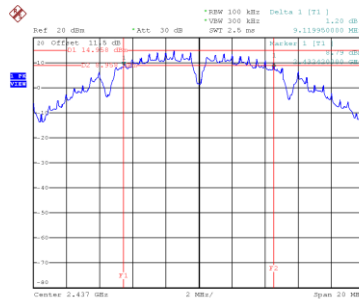
|           |           |
|-----------|-----------|
| Test Mode | TX B Mode |
|-----------|-----------|

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (MHz) | Result   |
|---------|-----------------|----------------------|-------------------------------|---------------------------------|----------|
| 01      | 2412            | 8.590                | 12.320                        | 0.5                             | Complies |
| 06      | 2437            | 9.120                | 17.360                        | 0.5                             | Complies |
| 11      | 2462            | 9.060                | 12.880                        | 0.5                             | Complies |

CH01

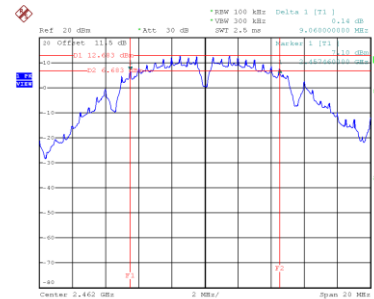


Date: 22,JUL,2022 09:42:148

CH06  
6 dB Bandwidth


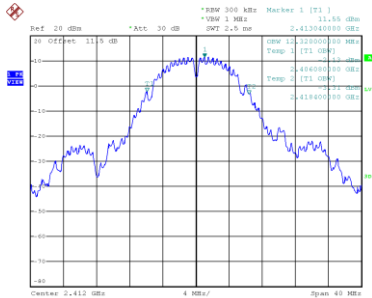
Date: 22,JUL,2022 09:44:105

CH11

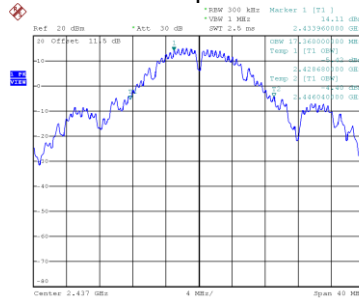


Date: 22,JUL,2022 09:45:108

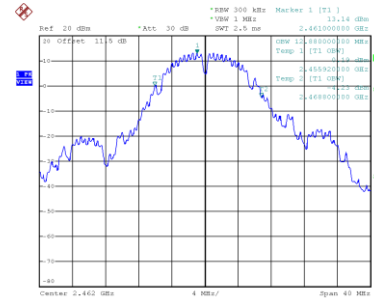
99 % Occupied Bandwidth



Date: 22,JUL,2022 09:42:155



Date: 22,JUL,2022 09:44:112



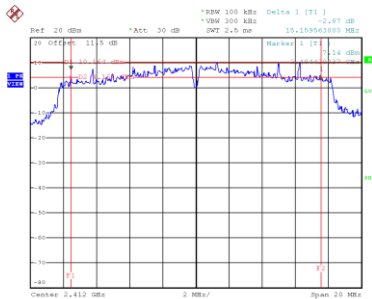
Date: 22,JUL,2022 09:45:115



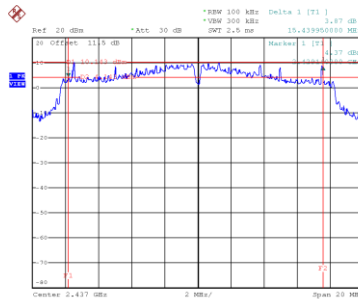
|           |           |
|-----------|-----------|
| Test Mode | TX G Mode |
|-----------|-----------|

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (MHz) | Result   |
|---------|-----------------|----------------------|-------------------------------|---------------------------------|----------|
| 01      | 2412            | 15.160               | 18.640                        | 0.5                             | Complies |
| 06      | 2437            | 15.440               | 18.160                        | 0.5                             | Complies |
| 11      | 2462            | 15.190               | 18.960                        | 0.5                             | Complies |

CH01

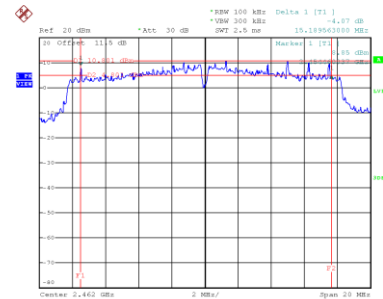


Date: 22,JUL,2022 09:47:11

CH06  
6 dB Bandwidth


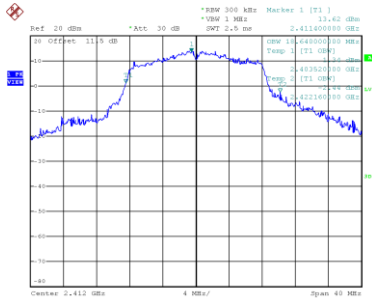
Date: 22,JUL,2022 09:48:01

CH11

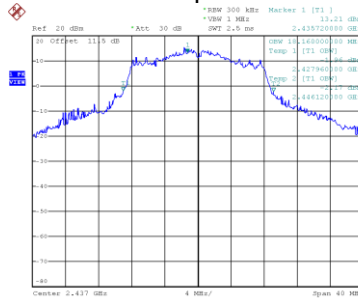


Date: 22,JUL,2022 09:48:42

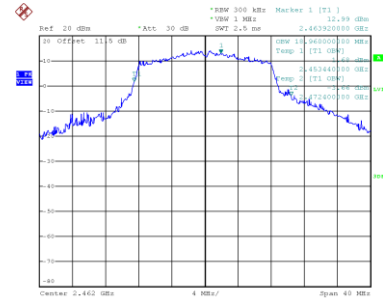
99 % Occupied Bandwidth



Date: 22,JUL,2022 09:47:18



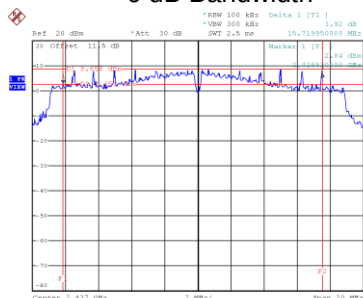
Date: 22,JUL,2022 09:48:08



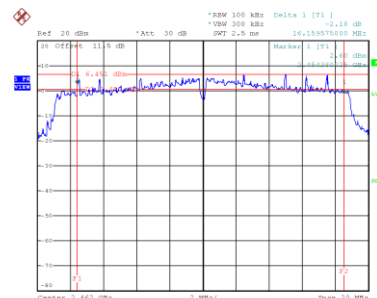
Date: 22,JUL,2022 09:48:48

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (MHz) | Result   |
|---------|-----------------|----------------------|-------------------------------|---------------------------------|----------|
| 01      | 2412            | 16.110               | 18.000                        | 0.5                             | Complies |
| 06      | 2437            | 15.720               | 18.400                        | 0.5                             | Complies |
| 11      | 2462            | 16.160               | 18.080                        | 0.5                             | Complies |

**CH06**  
6 dB Bandwidth

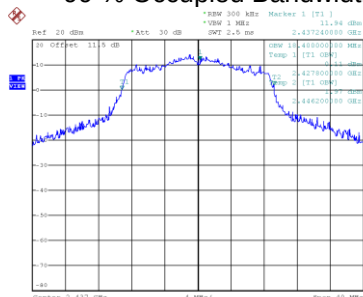


CH11



Date: 22-Jul-2022 09:52:06

99 % Occupied Bandwidth



Date: 22.JUL.2022 09:52:07

## APPENDIX F - MAXIMUM OUTPUT POWER

|           |           |
|-----------|-----------|
| Test Mode | TX B Mode |
|-----------|-----------|

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result   |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|----------|
| 01      | 2412            | 21.86              | 0.00        | 21.86                            | 30.00            | 1.0000         | Complies |
| 06      | 2437            | 23.98              | 0.00        | 23.98                            | 30.00            | 1.0000         | Complies |
| 11      | 2462            | 22.45              | 0.00        | 22.45                            | 30.00            | 1.0000         | Complies |

|           |           |
|-----------|-----------|
| Test Mode | TX G Mode |
|-----------|-----------|

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result   |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|----------|
| 01      | 2412            | 17.91              | 0.31        | 18.22                            | 30.00            | 1.0000         | Complies |
| 06      | 2437            | 22.43              | 0.31        | 22.74                            | 30.00            | 1.0000         | Complies |
| 11      | 2462            | 19.93              | 0.31        | 20.24                            | 30.00            | 1.0000         | Complies |

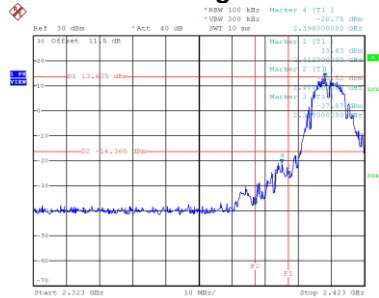
|           |                 |
|-----------|-----------------|
| Test Mode | TX N(HT20) Mode |
|-----------|-----------------|

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result   |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|----------|
| 01      | 2412            | 18.92              | 0.30        | 19.22                            | 30.00            | 1.0000         | Complies |
| 06      | 2437            | 22.87              | 0.30        | 23.17                            | 30.00            | 1.0000         | Complies |
| 11      | 2462            | 19.84              | 0.30        | 20.14                            | 30.00            | 1.0000         | Complies |

## **APPENDIX G - CONDUCTED SPURIOUS EMISSIONS**

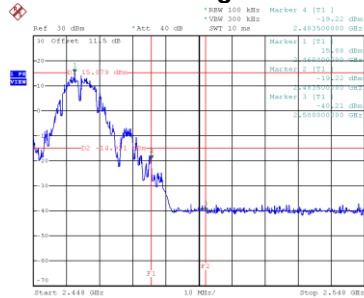
Test Mode TX B Mode

### Bandedge-CH01



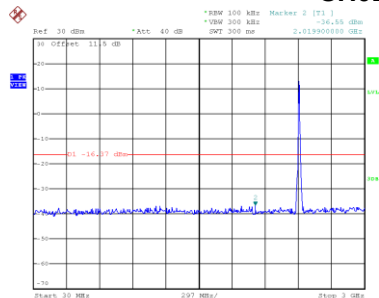
Date: 1.JUL.2022 11:33:26

### Bandedge-CH11

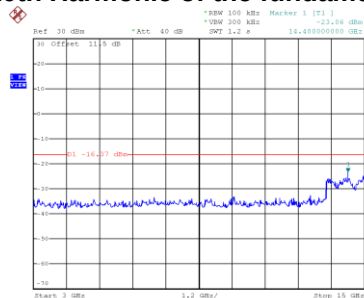


Date: 1.JUL.2022 11:22:23

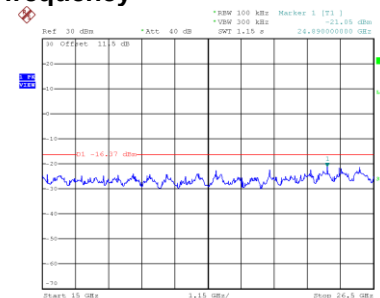
### CH01 – 10th Harmonic of the fundamental frequency



Date: 1.JUL.2022 11:33:58

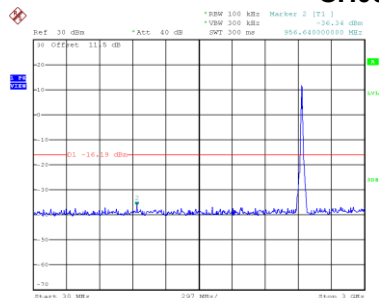


Date: 1.JUL.2022 11:34:05

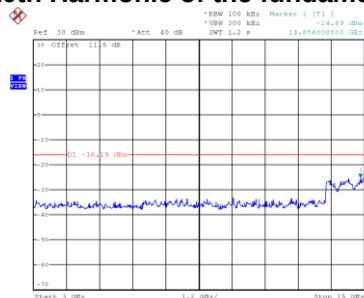


Date: 1.JUL.2022 11:34:12

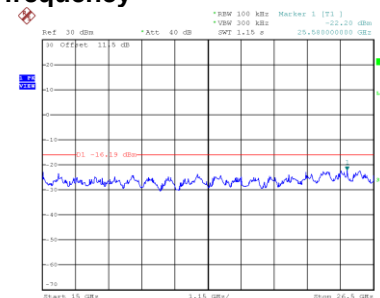
### CH06 – 10th Harmonic of the fundamental frequency



Date: 1.JUL.2022 11:20:29

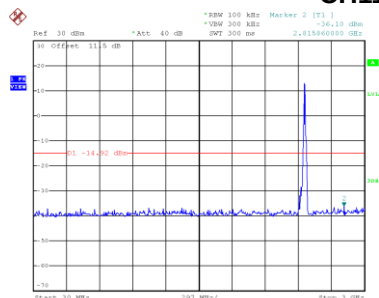


Date: 1.JUL.2022 11:20:37

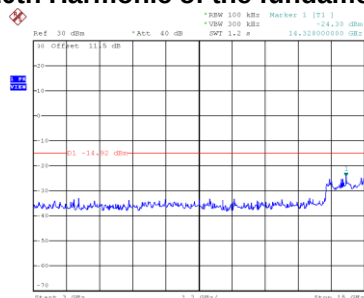


Date: 1.JUL.2022 11:20:44

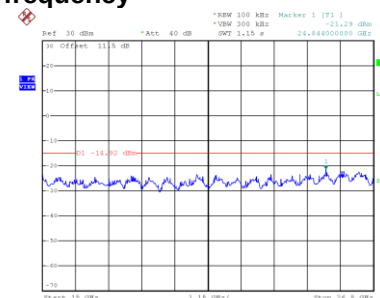
### CH11 – 10th Harmonic of the fundamental frequency



Date: 1.JUL.2022 11:22:36



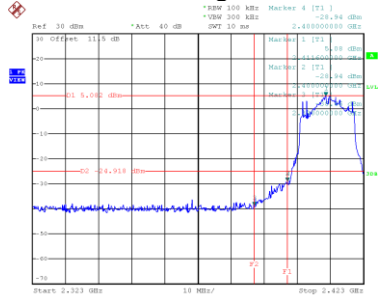
Date: 1.JUL.2022 11:22:43



Date: 1.JUL.2022 11:22:50

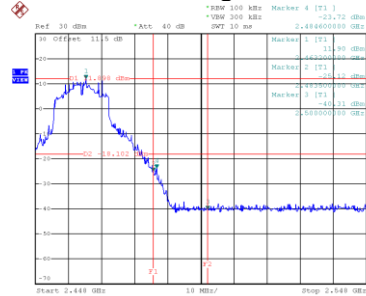
Test Mode TX G Mode

### Bandedge-CH01



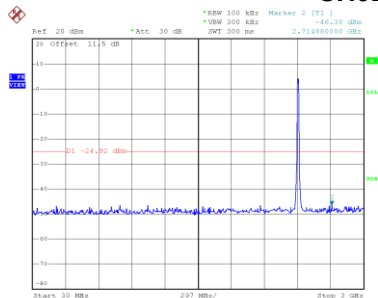
Date: 1.JUL.2022 11:53:55

### Bandedge-CH11

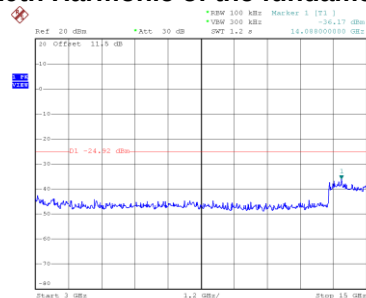


Date: 1.JUL.2022 11:46:17

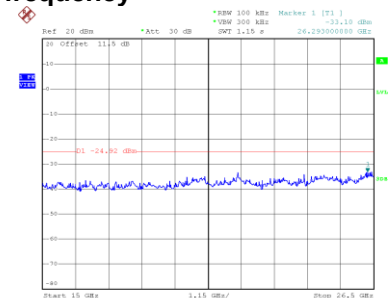
### CH01 – 10th Harmonic of the fundamental frequency



Date: 11.JUL.2022 17:08:25

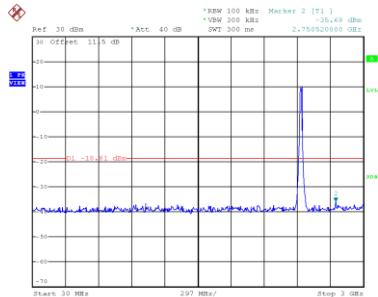


Date: 11.JUL.2022 17:08:34

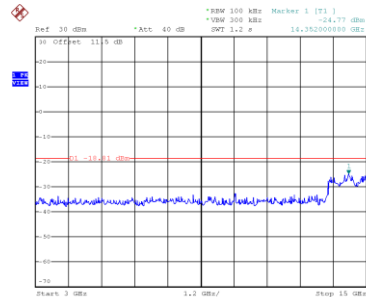


Date: 11.JUL.2022 17:08:42

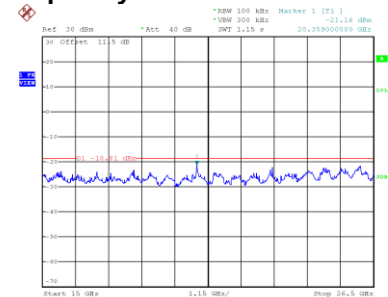
### CH06 – 10th Harmonic of the fundamental frequency



Date: 1.JUL.2022 11:51:55

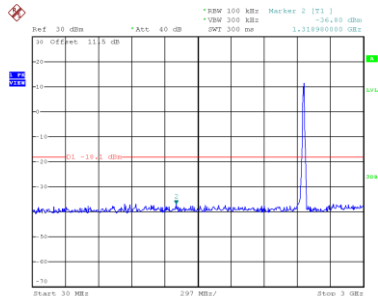


Date: 1.JUL.2022 11:52:03

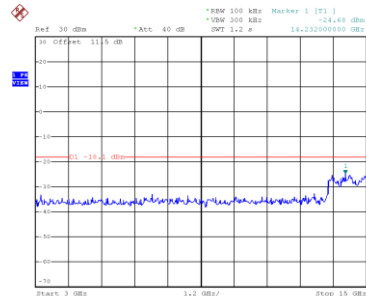


Date: 1.JUL.2022 11:52:10

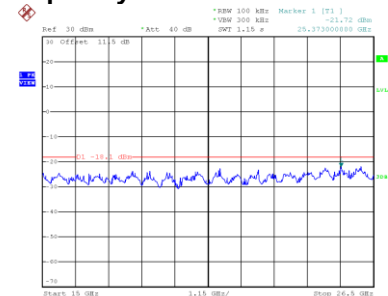
### CH11 – 10th Harmonic of the fundamental frequency



Date: 1.JUL.2022 11:46:30



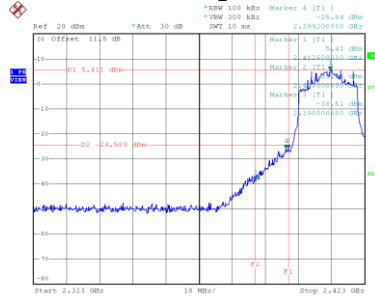
Date: 1.JUL.2022 11:46:37



Date: 1.JUL.2022 11:46:45

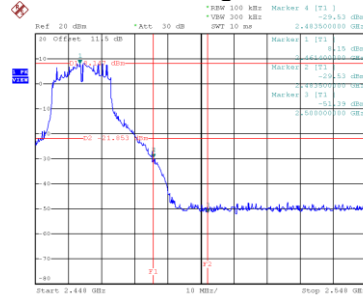
Test Mode TX N(HT20) Mode

### Bandedge-CH01



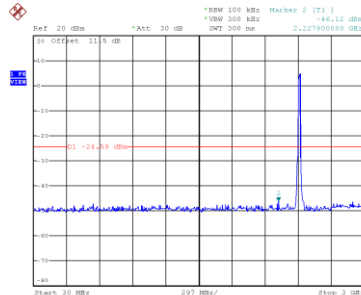
Date: 5.JUL.2022 14:45:09

### Bandedge-CH11

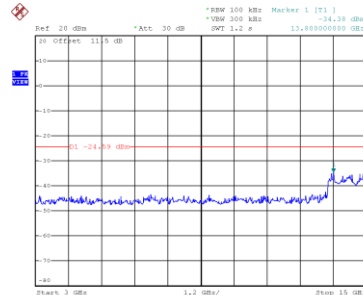


Date: 1.JUL.2022 12:14:14

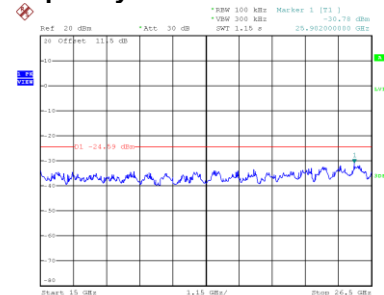
### CH01 – 10th Harmonic of the fundamental frequency



Date: 19.JUL.2022 09:37:10

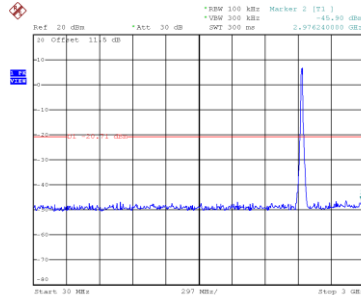


Date: 19.JUL.2022 09:37:17

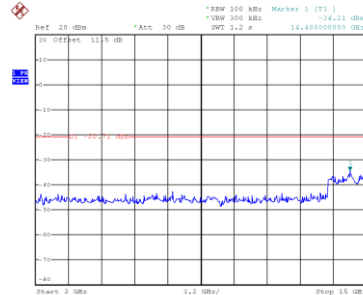


Date: 19.JUL.2022 09:37:24

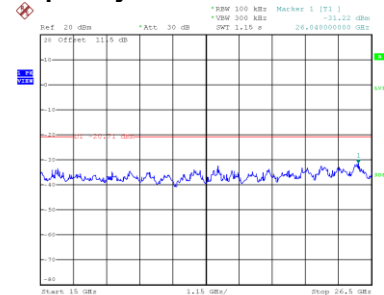
### CH06 – 10th Harmonic of the fundamental frequency



Date: 1.JUL.2022 12:16:13

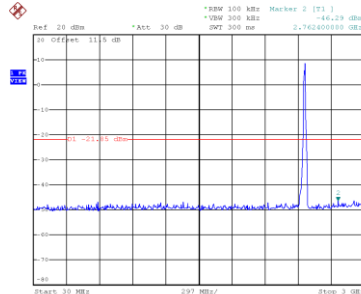


Date: 1.JUL.2022 12:16:21

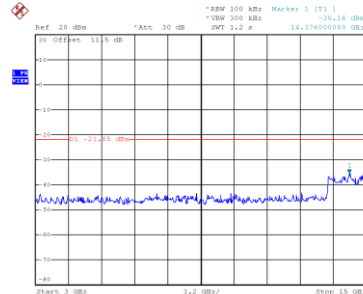


Date: 1.JUL.2022 12:16:29

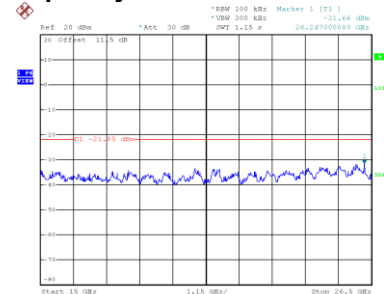
### CH11 – 10th Harmonic of the fundamental frequency



Date: 1.JUL.2022 12:14:27



Date: 1.JUL.2022 12:14:34



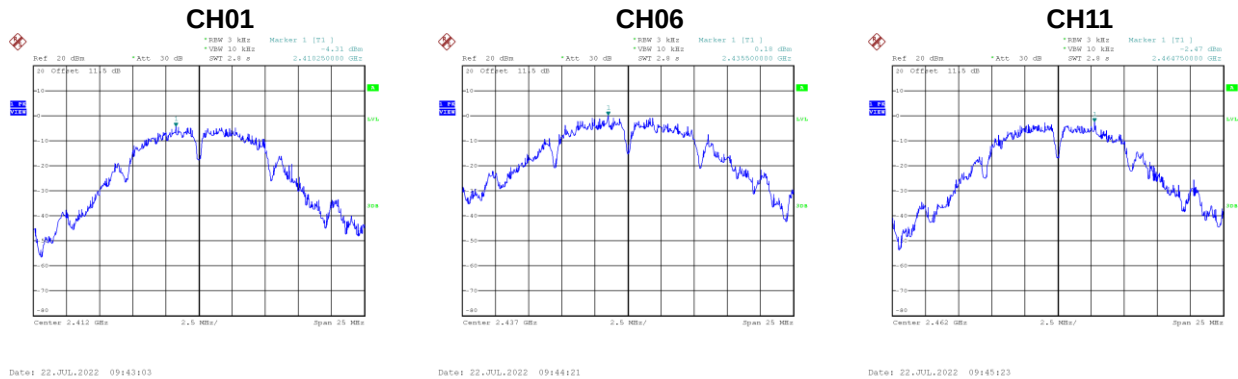
Date: 1.JUL.2022 12:14:41



## APPENDIX H - POWER SPECTRAL DENSITY

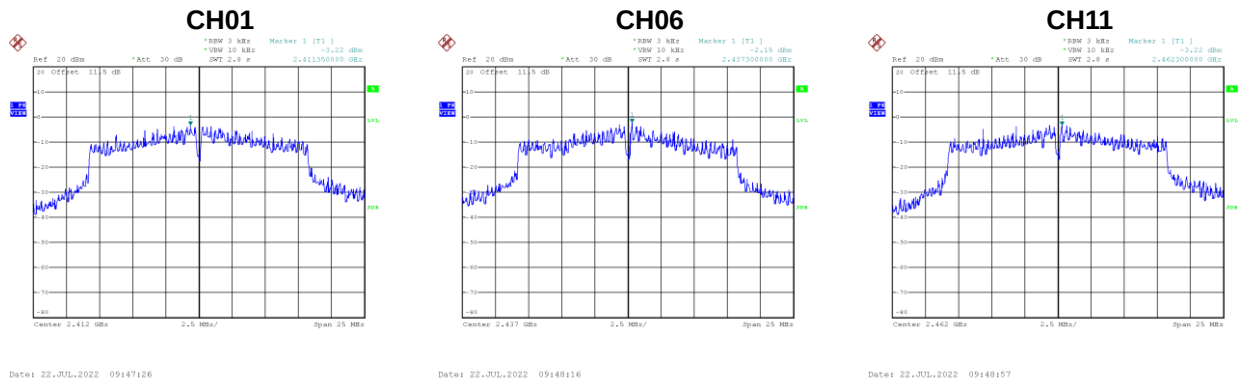
|           |           |
|-----------|-----------|
| Test Mode | TX B Mode |
|-----------|-----------|

| Channel | Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Max. Limit (dBm/3kHz) | Result   |
|---------|-----------------|-----------------------------------|-----------------------|----------|
| 01      | 2412            | -4.31                             | 8.00                  | Complies |
| 06      | 2437            | 0.18                              | 8.00                  | Complies |
| 11      | 2462            | -2.47                             | 8.00                  | Complies |



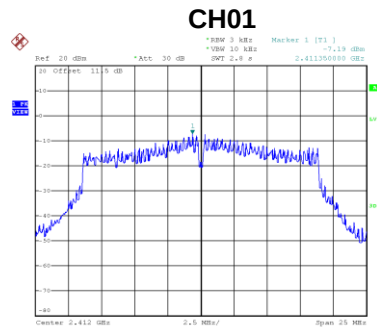
|           |           |
|-----------|-----------|
| Test Mode | TX G Mode |
|-----------|-----------|

| Channel | Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Max. Limit (dBm/3kHz) | Result   |
|---------|-----------------|-----------------------------------|-----------------------|----------|
| 01      | 2412            | -3.22                             | 8.00                  | Complies |
| 06      | 2437            | -2.15                             | 8.00                  | Complies |
| 11      | 2462            | -3.22                             | 8.00                  | Complies |

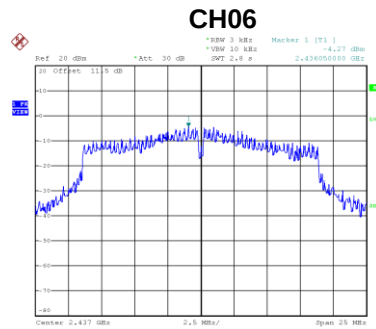


|           |                 |
|-----------|-----------------|
| Test Mode | TX N(HT20) Mode |
|-----------|-----------------|

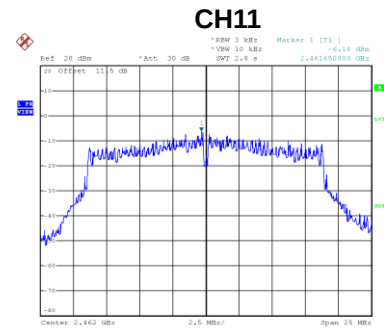
| Channel | Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Max. Limit (dBm/3kHz) | Result   |
|---------|-----------------|-----------------------------------|-----------------------|----------|
| 01      | 2412            | -7.19                             | 8.00                  | Complies |
| 06      | 2437            | -4.27                             | 8.00                  | Complies |
| 11      | 2462            | -6.18                             | 8.00                  | Complies |



Date: 22.JUL.2022 09:50:46



Date: 22.JUL.2022 09:51:34



Date: 22.JUL.2022 09:52:15

End of Test Report