

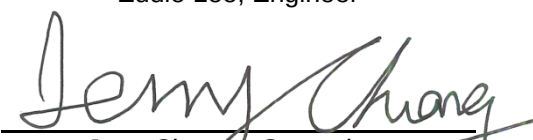
# FCC Radio Test Report

**FCC ID: HBW1595**

**Report No.** : BTL-FCCP-1-2303T057  
**Equipment** : Smart Video Intercom - L  
**Model Name** : CAPXLV2  
**Brand Name** : Liftmaster  
**Applicant** : Chamberlain Group LLC, The  
**Address** : 300 Windsor Dr, Oak Brook, Illinois, United States, 60523  
  
**Radio Function** : Bluetooth EDR  
  
**FCC Rule Part(s)** : FCC CFR Title 47, Part 15, Subpart C (15.247)  
**Measurement Procedure(s)** : ANSI C63.10-2013  
  
**Date of Receipt** : 2023/3/20  
**Date of Test** : 2023/6/15 ~ 2023/8/24  
**Issued Date** : 2023/9/28

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

**Prepared by** :   
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**Approved by** :   
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**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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**REVISION HISTORY**

| Report No.          | Version | Description                               | Issued Date | Note    |
|---------------------|---------|-------------------------------------------|-------------|---------|
| BTL-FCCP-1-2303T057 | R00     | Original Report.                          | 2023/9/13   | Invalid |
| BTL-FCCP-1-2303T057 | R01     | Revised report to address TCB's comments. | 2023/9/28   | Valid   |

## 1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

| Standard(s) Section           | Description                         | Test Result              | Judgement | Remark |
|-------------------------------|-------------------------------------|--------------------------|-----------|--------|
| 15.207                        | AC Power Line Conducted Emissions   | APPENDIX A               | Pass      | -----  |
| 15.205<br>15.209<br>15.247(d) | Radiated Emissions                  | APPENDIX B<br>APPENDIX C | Pass      | -----  |
| 15.247<br>(a)(1)(iii)         | Number of Hopping Frequency         | APPENDIX D               | Pass      | -----  |
| 15.247<br>(a)(1)(iii)         | Average Time of Occupancy           | APPENDIX E               | Pass      | -----  |
| 15.247<br>(a)(1)              | Hopping Channel Separation          | APPENDIX F               | Pass      | -----  |
| 15.247<br>(a)(1)              | Bandwidth                           | APPENDIX G               | Pass      | -----  |
| 15.247<br>(b)(1)              | Output Power                        | APPENDIX H               | Pass      | -----  |
| 15.247(d)                     | Antenna conducted Spurious Emission | APPENDIX I               | Pass      | -----  |
| 15.203                        | Antenna Requirement                 | -----                    | Pass      | -----  |

### NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.

## 1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan  
(FCC DN: TW0659)

☒ C05      ☐ CB08      ☐ CB11      ☒ SR10      ☐ SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan  
(FCC DN: TW0659)

☐ C06      ☒ CB21      ☐ CB22

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k = 2$ , providing a level of confidence of approximately **95 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{\text{CISPR}}$  requirement.

### A. AC power line conducted emissions test:

| Test Site | Method | Measurement Frequency Range | U (dB) |
|-----------|--------|-----------------------------|--------|
| C05       | CISPR  | 150 kHz ~ 30 MHz            | 3.44   |

### B. Radiated emissions test :

| Test Site | Measurement Frequency Range | U (dB) |
|-----------|-----------------------------|--------|
| CB21      | 0.03 GHz ~ 0.2 GHz          | 4.17   |
|           | 0.2 GHz ~ 1 GHz             | 4.72   |
|           | 1 GHz ~ 6 GHz               | 5.21   |
|           | 6 GHz ~ 18 GHz              | 5.51   |
|           | 18 GHz ~ 26 GHz             | 3.69   |
|           | 26 GHz ~ 40 GHz             | 4.23   |

### C. Conducted test :

| Test Item                    | U (dB) |
|------------------------------|--------|
| Occupied Bandwidth           | 0.5338 |
| Output power                 | 0.3659 |
| Conducted Spurious emissions | 0.5416 |
| Conducted Band edges         | 0.5348 |
| Dwell time                   | 0.6606 |
| Channel separation           | 0.6606 |
| Channel numbers              | 0.6606 |

### NOTE:

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

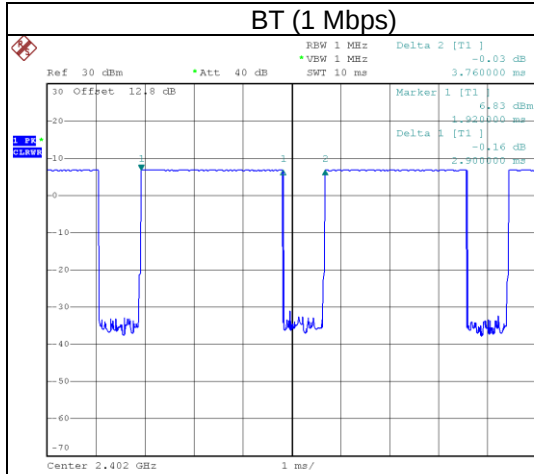
### 1.3 TEST ENVIRONMENT CONDITIONS

| Test Item                           | Environment Condition | Test Voltage | Tested by |
|-------------------------------------|-----------------------|--------------|-----------|
| AC Power Line Conducted Emissions   | 22 °C, 54 %           | AC 120V      | Cora Lin  |
| Radiated emissions below 1 GHz      | Refer to data         | AC 120V      | Mark Wang |
| Radiated emissions above 1 GHz      | Refer to data         | AC 120V      | Mark Wang |
| Number of Hopping Frequency         | 24.5 °C, 53 %         | AC 120V      | Jay Tien  |
| Average Time of Occupancy           | 24.5 °C, 53 %         | AC 120V      | Jay Tien  |
| Hopping Channel Separation          | 24.5 °C, 53 %         | AC 120V      | Jay Tien  |
| Bandwidth                           | 24.5 °C, 53 %         | AC 120V      | Jay Tien  |
| Output Power                        | 24.5 °C, 53 %         | AC 120V      | Jay Tien  |
| Antenna conducted Spurious Emission | 24.5 °C, 53 %         | AC 120V      | Jay Tien  |

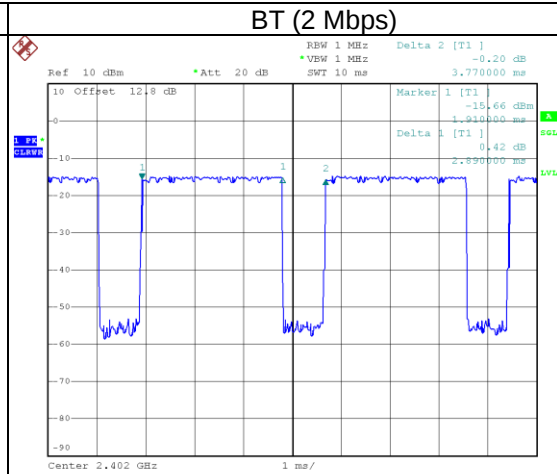
## 1.4 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.  
If duty cycle is  $< 98\%$ , duty factor shall be considered.

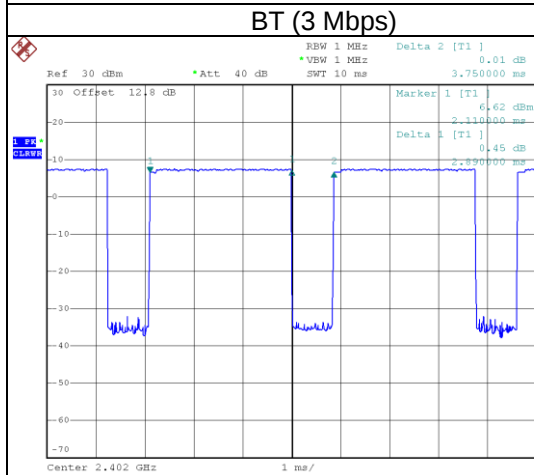
| Remark      | Delta 1 |              |                  | Delta 2              | On Time/Period | 10 log(1/Duty Cycle) |
|-------------|---------|--------------|------------------|----------------------|----------------|----------------------|
| Mode        | ON (ms) | Numbers (ON) | On Time (B) (ms) | Period (ON+OFF) (ms) | Duty Cycle (%) | Duty Factor (dB)     |
| BT (1 Mbps) | 2.900   | 1            | 2.900            | 3.760                | 77.13%         | 1.13                 |
| BT (2 Mbps) | 2.890   | 1            | 2.890            | 3.770                | 76.66%         | 1.15                 |
| BT (3 Mbps) | 2.890   | 1            | 2.890            | 3.750                | 77.07%         | 1.13                 |



Date: 19.JUN.2023 19:04:08



Date: 20.JUN.2023 22:17:44



Date: 20.JUN.2023 22:19:27

## 2 GENERAL INFORMATION

### 2.1 DESCRIPTION OF EUT

|                       |                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------|
| Equipment             | Smart Video Intercom - L                                                                  |
| Model Name            | CAPXLV2                                                                                   |
| Brand Name            | Liftmaster                                                                                |
| Model Difference      | N/A                                                                                       |
| Power Source          | 1. DC voltage supplied from AC/DC adapter.<br>2. DC voltage supplied from PoE.            |
| Power Rating          | 1. I/P: 100-240V~ 50/60Hz 1.5A O/P: 24.0V---3.0A, 72.0W<br>2. DC 48V                      |
| Products Covered      | 1 * Adapter: Shenzhen GEAO Technology Co Ltd / QX72W240300D3                              |
| Operation Band        | 2400 MHz ~ 2483.5 MHz                                                                     |
| Operation Frequency   | 2402 MHz ~ 2480 MHz                                                                       |
| Modulation Type       | GFSK, $\pi/4$ -DQPSK, 8DPSK                                                               |
| Modulation Technology | FHSS                                                                                      |
| Transfer Rate         | 1 Mbps, 2 Mbps, 3Mbps                                                                     |
| Output Power Max.     | 1 Mbps: 6.53 dBm (0.0045 W)<br>2 Mbps: 7.67 dBm (0.0058 W)<br>3 Mbps: 7.74 dBm (0.0059 W) |
| Operating Software    | PuTTY Release 0.62                                                                        |
| Test Model            | CAPXLV2                                                                                   |
| Sample Status         | Engineering Sample                                                                        |
| EUT Modification(s)   | N/A                                                                                       |

#### NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

#### (2) Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 00      | 2402            | 27      | 2429            | 54      | 2456            |
| 01      | 2403            | 28      | 2430            | 55      | 2457            |
| 02      | 2404            | 29      | 2431            | 56      | 2458            |
| 03      | 2405            | 30      | 2432            | 57      | 2459            |
| 04      | 2406            | 31      | 2433            | 58      | 2460            |
| 05      | 2407            | 32      | 2434            | 59      | 2461            |
| 06      | 2408            | 33      | 2435            | 60      | 2462            |
| 07      | 2409            | 34      | 2436            | 61      | 2463            |
| 08      | 2410            | 35      | 2437            | 62      | 2464            |
| 09      | 2411            | 36      | 2438            | 63      | 2465            |
| 10      | 2412            | 37      | 2439            | 64      | 2466            |
| 11      | 2413            | 38      | 2440            | 65      | 2467            |
| 12      | 2414            | 39      | 2441            | 66      | 2468            |
| 13      | 2415            | 40      | 2442            | 67      | 2469            |
| 14      | 2416            | 41      | 2443            | 68      | 2470            |
| 15      | 2417            | 42      | 2444            | 69      | 2471            |
| 16      | 2418            | 43      | 2445            | 70      | 2472            |
| 17      | 2419            | 44      | 2446            | 71      | 2473            |
| 18      | 2420            | 45      | 2447            | 72      | 2474            |
| 19      | 2421            | 46      | 2448            | 73      | 2475            |
| 20      | 2422            | 47      | 2449            | 74      | 2476            |
| 21      | 2423            | 48      | 2450            | 75      | 2477            |
| 22      | 2424            | 49      | 2451            | 76      | 2478            |
| 23      | 2425            | 50      | 2452            | 77      | 2479            |
| 24      | 2426            | 51      | 2453            | 78      | 2480            |

|    |      |    |      |  |  |
|----|------|----|------|--|--|
| 25 | 2427 | 52 | 2454 |  |  |
| 26 | 2428 | 53 | 2455 |  |  |

(3) Table for Filed Antenna:

Group I:

| Antenna          | Manufacture                | Part No.      | Type   | Connector | Gain (dBi) |
|------------------|----------------------------|---------------|--------|-----------|------------|
| External antenna | Radiation Technology, Inc. | C0289-ANG0011 | Dipole | SMA       | 2.94       |

Group II:

| Antenna          | Manufacture | Part No. | Type | Connector | Gain (dBi) |
|------------------|-------------|----------|------|-----------|------------|
| Built-in antenna | Quectel     | YF0011RA | FPC  | I-PEX     | 3.1        |

NOTE: The EUT includes two groups of antenna, for Radiated External antenna and Built-in antenna are evaluated, for other test items only the worst case Built-in antenna is recorded.

- (4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

## 2.2 TEST MODES

| Test Items                                  | Test mode   | Channel  | Note     |
|---------------------------------------------|-------------|----------|----------|
| AC power line conducted emissions           | Normal/Idle | -        | -        |
| Transmitter Radiated Emissions (below 1GHz) | 3 Mbps      | 78       | -        |
| Transmitter Radiated Emissions (above 1GHz) | 1/3 Mbps    | 00/78    | Bandedge |
|                                             | 1/3 Mbps    | 00/39/78 | Harmonic |
| Number of Hopping Frequency                 | 1/3 Mbps    | 00~78    | -        |
| Average Time of Occupancy                   | 1/3 Mbps    | 00/39/78 | -        |
| Hopping Channel Separation                  | 1/3 Mbps    | 00/39/78 | -        |
| Bandwidth                                   | 1/3 Mbps    | 00/39/78 | -        |
| Peak Output Power                           | 1/2/3 Mbps  | 00/39/78 | -        |
| Antenna conducted Spurious Emission         | 1/3 Mbps    | 00/39/78 | -        |

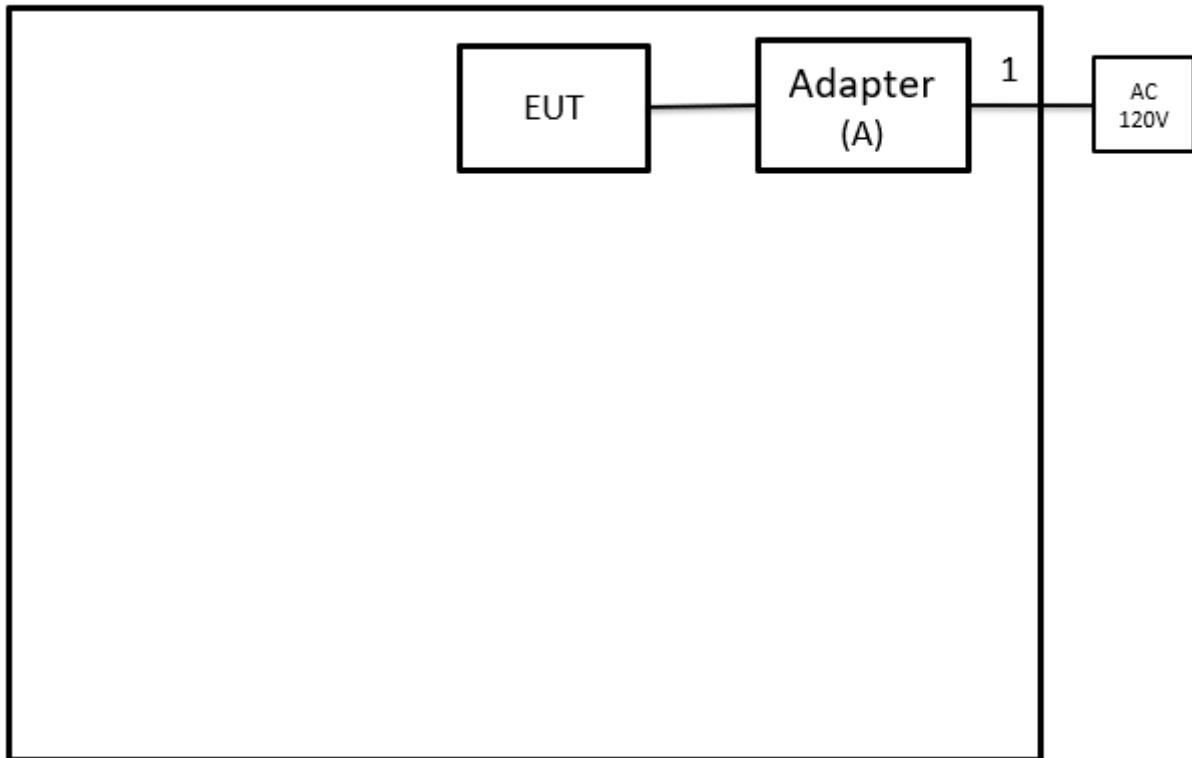
### NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (3) For AC Power line conducted emissions and transmitter radiated emissions (below 1GHz), POE mode and adapter mode are evaluated, adapter mode is found to be the worst case and used for final test.
- (4) For AC Power line conducted emissions and transmitter radiated emissions (below 1GHz), both POE mode and adapter mode are evaluated. For the other test item, only adapter mode is used.

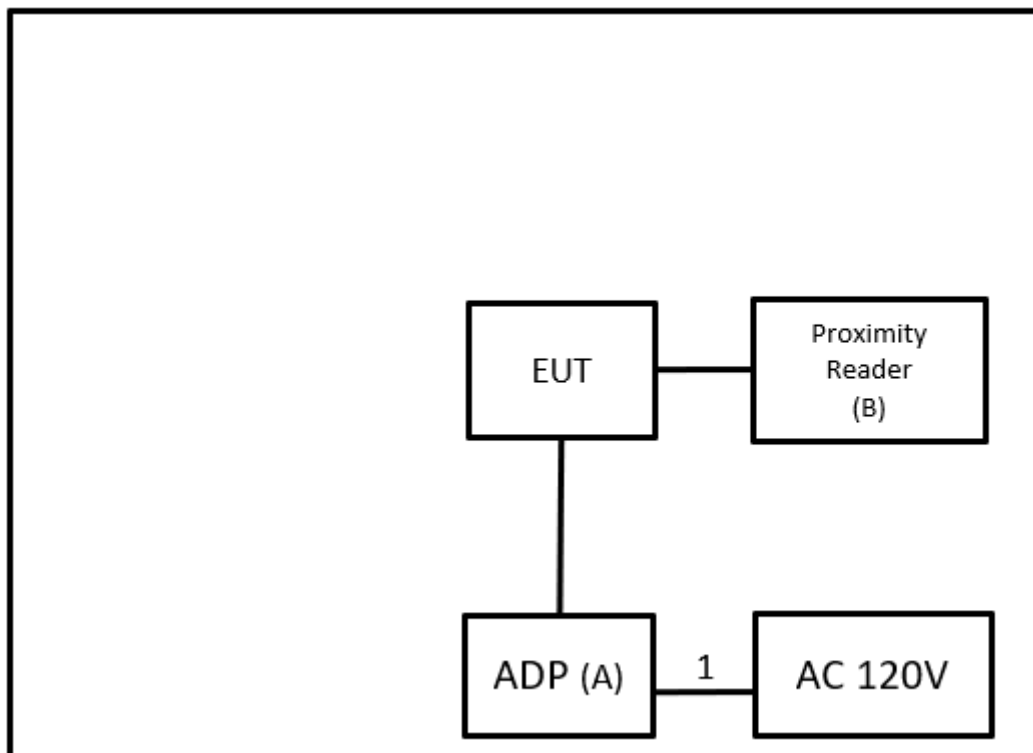
## 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

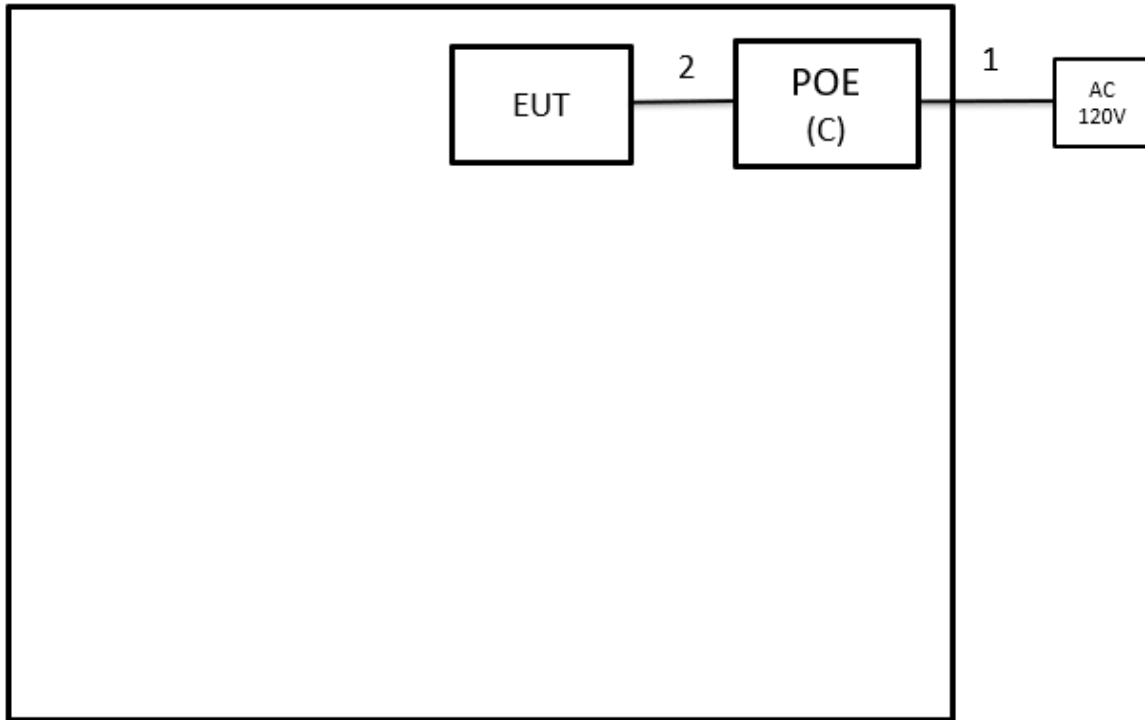
**Adapter Mode**  
AC power line conducted emissions



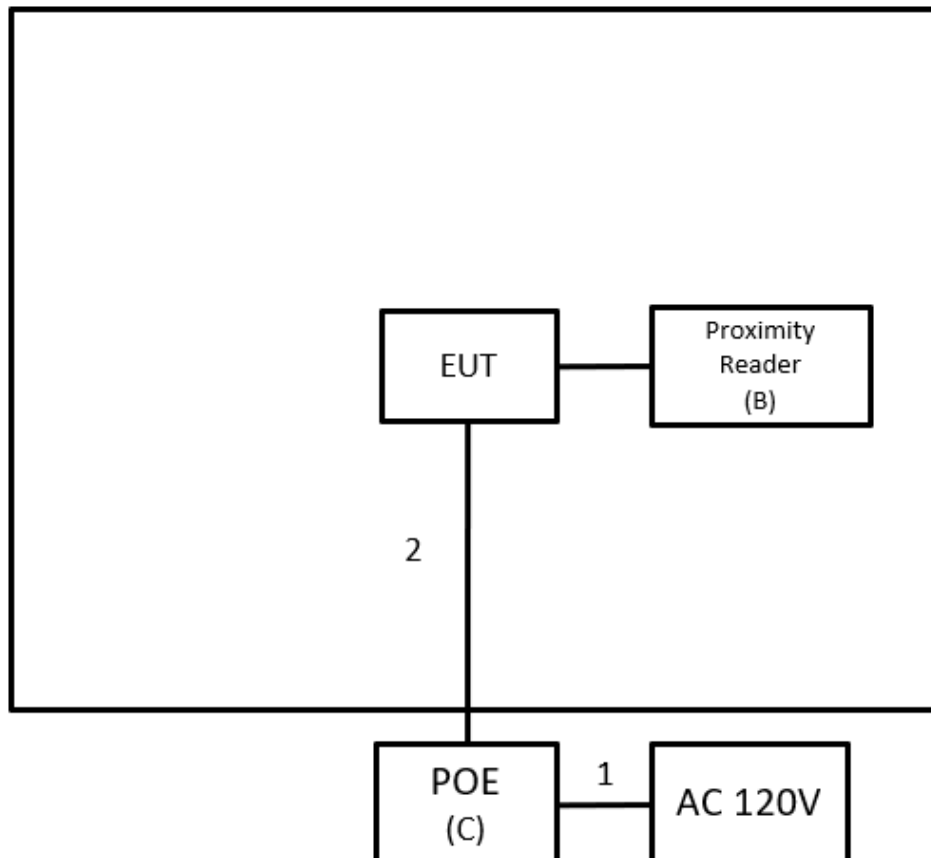
Radiated Emissions



**POE Mode**  
AC power line conducted emissions



Radiated Emissions (below 1GHz)



## 2.4 SUPPORT UNITS

| Item | Equipment        | Brand                           | Model No.     | Series No. | Remarks                     |
|------|------------------|---------------------------------|---------------|------------|-----------------------------|
| A    | Adapter          | Shenzhen GEAO Technology Co Ltd | QX72W240300D3 | N/A        | Supplied by test requester. |
| B    | Proximity Reader | AWID                            | SR-2400       | N/A        | Supplied by test requester. |
| C    | POE              | HUAWEI                          | PoE35-54A     | N/A        | Furnished by test lab.      |

| Item | Shielded | Ferrite Core | Length | Cable Type | Remarks                     |
|------|----------|--------------|--------|------------|-----------------------------|
| 1    | No       | No           | 1.1m   | Power Cord | Supplied by test requester. |
| 2    | No       | No           | 10m    | RJ45 Cable | Furnished by test lab.      |

### 3 AC POWER LINE CONDUCTED EMISSIONS TEST

#### 3.1 LIMIT

| Frequency<br>(MHz) | Limit (dBμV) |           |
|--------------------|--------------|-----------|
|                    | Quasi-peak   | Average   |
| 0.15 - 0.5         | 66 - 56 *    | 56 - 46 * |
| 0.50 - 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) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)  
 Margin Level = Measurement Value – Limit Value  
 Calculation example:

|               |   |                |   |                   |
|---------------|---|----------------|---|-------------------|
| Reading Level |   | Correct Factor |   | Measurement Value |
| 38.22         | + | 3.45           | = | 41.67             |

|                   |   |             |   |              |
|-------------------|---|-------------|---|--------------|
| Measurement Value |   | Limit Value |   | Margin Level |
| 41.67             | - | 60          | = | -18.33       |

The following table is the setting of the receiver.

| Receiver Parameter | Setting  |
|--------------------|----------|
| Attenuation        | 10 dB    |
| Start Frequency    | 0.15 MHz |
| Stop Frequency     | 30 MHz   |
| IF Bandwidth       | 9 KHz    |

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).  
 All other support equipment were powered from an additional LISN(s).  
 The LISN provides 50 Ohm/50uH of 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 to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.  
 The end of the cable will be terminated, using the correct terminating impedance.  
 The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT TEST PHOTO.

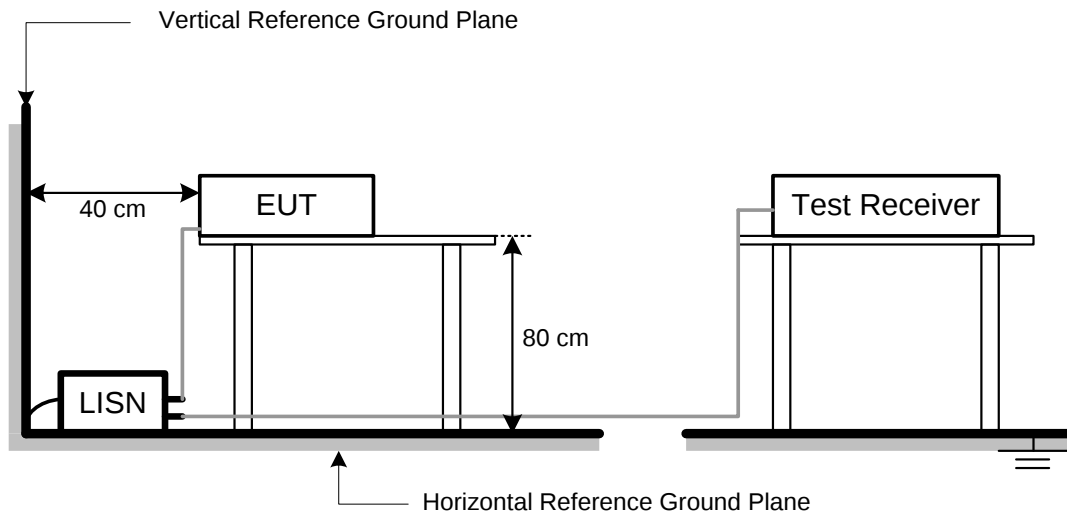
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.  
 BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

## 3.4 TEST SETUP



## 3.5 TEST RESULT

Please refer to the APPENDIX A.

## 4 RADIATED EMISSIONS TEST

### 4.1 LIMIT

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

#### LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 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                             |
| 960~1000        | 500                               | 3                             |

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

| Frequency (MHz) | Radiated Emissions (dBuV/m) |         | Measurement Distance (meters) |
|-----------------|-----------------------------|---------|-------------------------------|
|                 | Peak                        | Average |                               |
| Above 1000      | 74                          | 54      | 3                             |

#### NOTE:

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

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

| Reading Level |   | Correct Factor |   | Measurement Value |
|---------------|---|----------------|---|-------------------|
| 35.45         | + | -11.37         | = | 24.08             |

| Measurement Value |   | Limit Value |   | Margin Level |
|-------------------|---|-------------|---|--------------|
| 24.08             | - | 40          | = | -15.92       |

| Spectrum Parameter                         | Setting                                         |
|--------------------------------------------|-------------------------------------------------|
| Attenuation                                | Auto                                            |
| Start Frequency                            | 1000 MHz                                        |
| Stop Frequency                             | 10th carrier harmonic                           |
| RBW / VBW<br>(Emission in restricted band) | 1MHz / 3MHz for Peak,<br>1MHz / 1/T for Average |

| Mode    | VBW(Hz) |
|---------|---------|
| BT (1M) | 360     |
| BT (2M) | 360     |
| BT (3M) | 360     |

| Spectrum Parameter     | Setting                           |
|------------------------|-----------------------------------|
| Attenuation            | Auto                              |
| Start ~ Stop Frequency | 9KHz~90KHz for PK/AVG detector    |
| Start ~ Stop Frequency | 90KHz~110KHz for QP detector      |
| Start ~ Stop Frequency | 110KHz~490KHz for PK/AVG detector |
| Start ~ Stop Frequency | 490KHz~30MHz for QP detector      |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector     |

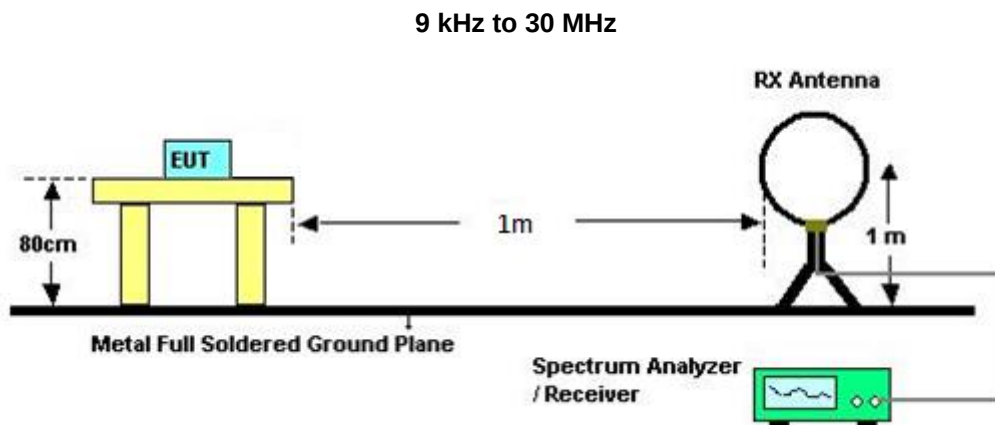
## 4.2 TEST PROCEDURE

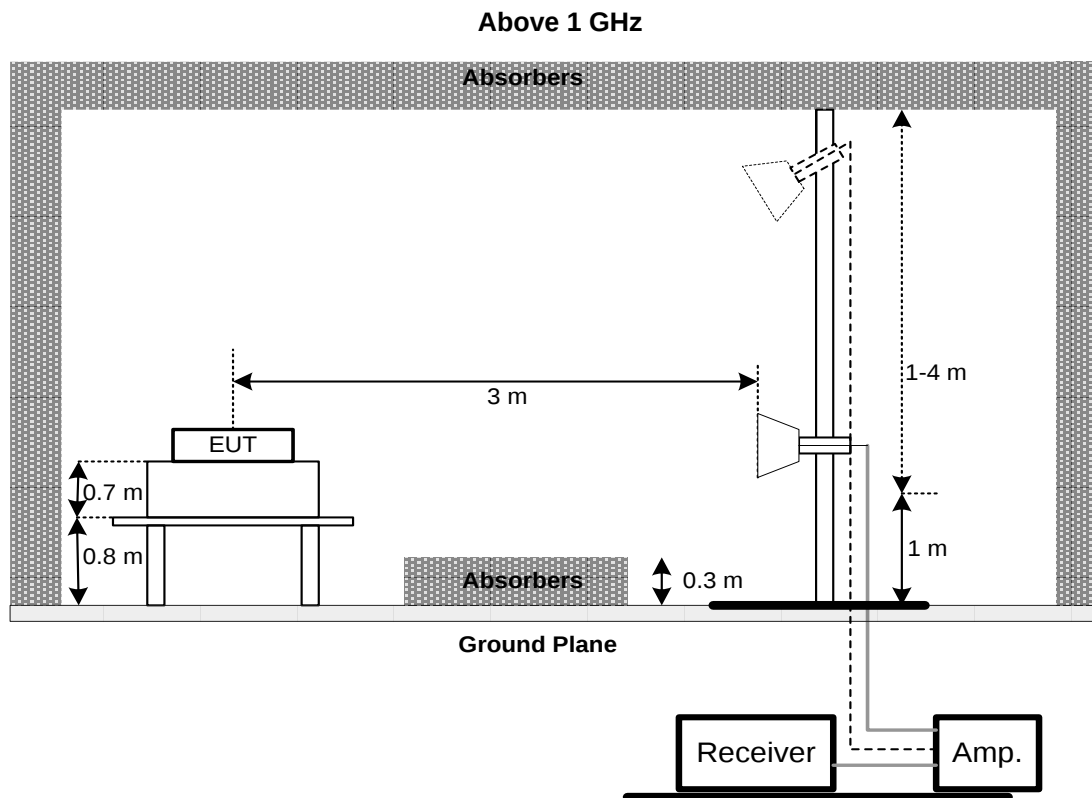
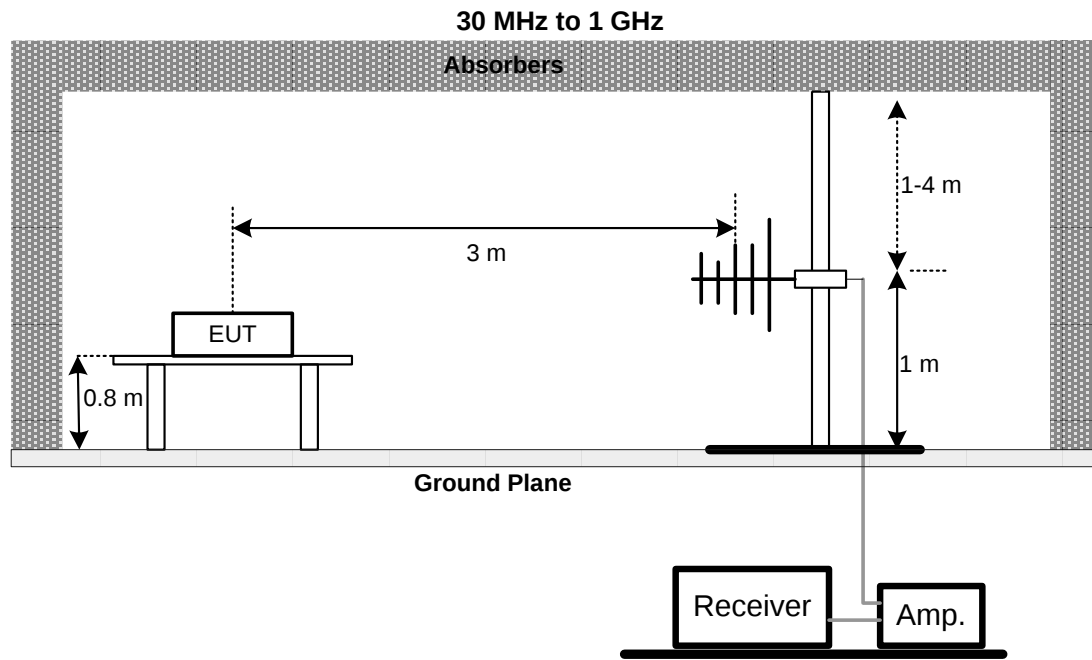
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, 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 1GHz.
- 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 1GHz)
- 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 1GHz)
- For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

## 4.3 DEVIATION FROM TEST STANDARD

No deviation.

## 4.4 TEST SETUP





## 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

**4.6 TEST RESULT – BELOW 30 MHZ**

There were no emissions found below 30 MHz within 20 dB of the limit.

**4.7 TEST RESULT – 30 MHZ TO 1 GHZ**

Please refer to the APPENDIX B.

**4.8 TEST RESULT – ABOVE 1 GHZ**

Please refer to the APPENDIX C.

**NOTE:**

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

## 5 NUMBER OF HOPPING CHANNEL

### 5.1 APPLIED PROCEDURES

| Section           | Test Item                 | Frequency Range (MHz) | Result |
|-------------------|---------------------------|-----------------------|--------|
| 15.247(a)(1)(iii) | Number of Hopping Channel | 2400-2483.5           | PASS   |

| Spectrum Parameters | Setting                     |
|---------------------|-----------------------------|
| Attenuation         | Auto                        |
| Span Frequency      | > Operating Frequency Range |
| RBW                 | 100 KHz                     |
| VBW                 | 100 KHz                     |
| Detector            | Peak                        |
| Trace               | Max Hold                    |
| Sweep Time          | Auto                        |

### 5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=100KHz, VBW=100KHz, Sweep time = Auto.

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 5.6 TEST RESULTS

Please refer to the APPENDIX D.

## 6 AVERAGE TIME OF OCCUPANCY

### 6.1 APPLIED PROCEDURES / LIMIT

| Section           | Test Item                 | Limit  | Frequency Range (MHz) | Result |
|-------------------|---------------------------|--------|-----------------------|--------|
| 15.247(a)(1)(iii) | Average Time of Occupancy | 0.4sec | 2400-2483.5           | PASS   |

### 6.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- Measure the maximum time duration of one single pulse.  
A Period Time = (channel number)\*0.4

For Normal Mode (79 Channel):

DH1 Time Solt: Reading \* (1600/2)\*31.6/(channel number)

DH3 Time Solt: Reading \* (1600/2)\*31.6/(channel number)

DH5 Time Solt: Reading \* (1600/2)\*31.6/(channel number)

For AFH Mode (20 Channel):

DH1 Time Solt: Reading \* (1600/2)\*8/(channel number)

DH3 Time Solt: Reading \* (1600/4)\*8/(channel number)

DH5 Time Solt: Reading \* (1600/6)\*8/(channel number)

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 6.6 TEST RESULTS

Please refer to the APPENDIX E.

## 7 Hopping Channel Separation Measurement

### 7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 KHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

| Spectrum Parameter | Setting                                       |
|--------------------|-----------------------------------------------|
| Attenuation        | Auto                                          |
| Span Frequency     | > Measurement Bandwidth or Channel Separation |
| RBW                | 30 KHz                                        |
| VBW                | 100 KHz                                       |
| Detector           | Peak                                          |
| Trace              | Max Hold                                      |
| Sweep Time         | Auto                                          |

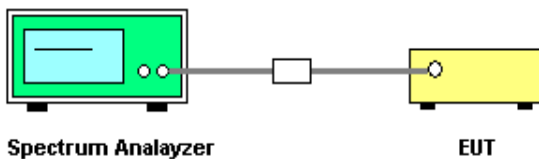
### 7.2 TEST PROCEDURE

- The EUT must have its hopping function enabled
- Span = wide enough to capture the peaks of two adjacent channels  
Resolution (or IF) Bandwidth (RBW)  $\geq 1\%$  of the span  
Video (or Average) Bandwidth (VBW)  $\geq$  RBW  
Sweep = Auto  
Detector function = Peak  
Trace = Max Hold

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 TEST RESULTS

Please refer to the APPENDIX F.

## 8 BANDWIDTH TEST

### 8.1 APPLIED PROCEDURES

| Section      | Test Item | Frequency Range (MHz) |
|--------------|-----------|-----------------------|
| 15.247(a)(2) | Bandwidth | 2400-2483.5           |

| Spectrum Parameter | Setting                                                 |
|--------------------|---------------------------------------------------------|
| Attenuation        | Auto                                                    |
| Span Frequency     | > Measurement Bandwidth or Channel Separation           |
| RBW                | 30 KHz (20dB Bandwidth) / 30 KHz (Channel Separation)   |
| VBW                | 100 KHz (20dB Bandwidth) / 100 KHz (Channel Separation) |
| Detector           | Peak                                                    |
| Trace              | Max Hold                                                |
| Sweep Time         | Auto                                                    |

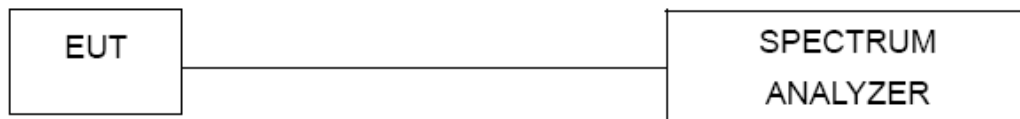
### 8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep Time = Auto.

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 8.6 TEST RESULTS

Please refer to the APPENDIX G.

## 9 OUTPUT POWER TEST

### 9.1 APPLIED PROCEDURES / LIMIT

| Section      | Test Item         | Limit              | Frequency Range (MHz) | Result |
|--------------|-------------------|--------------------|-----------------------|--------|
| 15.247(b)(1) | Peak Output Power | 0.125Watt or 21dBm | 2400-2483.5           | PASS   |

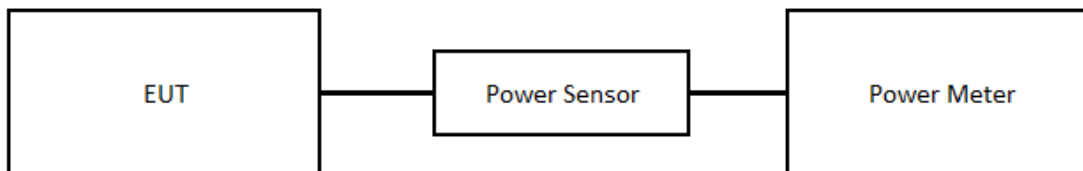
### 9.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 9.6 TEST RESULTS

Please refer to the APPENDIX H.

## 10 ANTENNA CONDUCTED SPURIOUS EMISSION

### 10.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

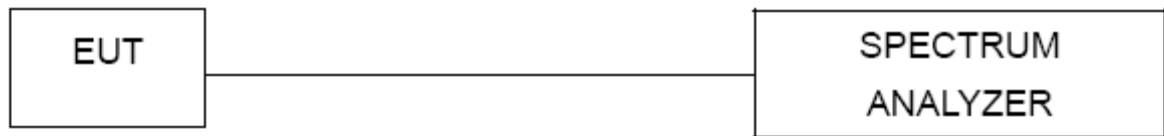
### 10.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.
- Offset=antenna gain+cable loss

### 10.3 DEVIATION FROM STANDARD

No deviation.

### 10.4 TEST SETUP



### 10.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 10.6 TEST RESULTS

Please refer to the APPENDIX I.

## 11 LIST OF MEASURING EQUIPMENTS

| AC Power Line Conducted Emissions |                      |              |                             |            |                 |                  |
|-----------------------------------|----------------------|--------------|-----------------------------|------------|-----------------|------------------|
| Item                              | Kind of Equipment    | Manufacturer | Type No.                    | Serial No. | Calibrated Date | Calibrated Until |
| 1                                 | TWO-LINE V-NETWORK   | R&S          | ENV216                      | 101521     | 2022/9/28       | 2023/9/27        |
| 2                                 | Test Cable           | EMCI         | EMCRG58-BM-B M-9000         | 220331     | 2023/3/30       | 2024/3/29        |
| 3                                 | EMI Test Receiver    | R&S          | ESR 7                       | 101433     | 2022/11/16      | 2023/11/15       |
| 4                                 | Measurement Software | EZ           | EZ EMC (Version NB-03A1-01) | N/A        | N/A             | N/A              |

| Radiated Emissions - 30 MHz to 1 GHz |                      |              |                             |            |                 |                  |
|--------------------------------------|----------------------|--------------|-----------------------------|------------|-----------------|------------------|
| Item                                 | Kind of Equipment    | Manufacturer | Type No.                    | Serial No. | Calibrated Date | Calibrated Until |
| 1                                    | Preamplifier         | EMCI         | EMC330N                     | 980850     | 2022/9/19       | 2023/9/18        |
| 2                                    | Test Cable           | EMCI         | EMC104-SM-SM-1000           | 180810     | 2023/7/10       | 2024/7/9         |
| 3                                    | Test Cable           | EMCI         | EMC104-SM-SM-3000           | 220322     | 2023/3/14       | 2024/3/13        |
| 4                                    | Test Cable           | EMCI         | EMC104-SM-SM-7000           | 220324     | 2023/3/14       | 2024/3/13        |
| 5                                    | EXA Signal Analyzer  | keysight     | N9020B                      | MY57120120 | 2023/2/24       | 2024/2/23        |
| 6                                    | Log-bicon Antenna    | Schwarzbeck  | VULB9168                    | 1369       | 2023/5/9        | 2024/5/8         |
| 7                                    | 6dB Attenuator       | EMCI         | EMCI-N-6-06                 | AT-06001   | 2023/5/9        | 2024/5/8         |
| 8                                    | Measurement Software | EZ           | EZ EMC (Version NB-03A1-01) | N/A        | N/A             | N/A              |

| Radiated Emissions - Above 1 GHz |                      |                 |                             |             |                 |                  |
|----------------------------------|----------------------|-----------------|-----------------------------|-------------|-----------------|------------------|
| Item                             | Kind of Equipment    | Manufacturer    | Type No.                    | Serial No.  | Calibrated Date | Calibrated Until |
| 1                                | Preamplifier         | EMCI            | EMC330N                     | 980850      | 2022/9/19       | 2023/9/18        |
| 2                                | Preamplifier         | EMCI            | EMC118A45SE                 | 980819      | 2023/3/7        | 2024/3/6         |
| 3                                | Pre-Amplifier        | EMCI            | EMC184045SE                 | 980907      | 2022/9/28       | 2023/9/27        |
| 4                                | Preamplifier         | EMCI            | EMC001340                   | 980579      | 2022/9/30       | 2023/9/29        |
| 5                                | Test Cable           | EMCI            | EMC104-SM-SM-1000           | 220319      | 2023/3/14       | 2024/3/13        |
| 6                                | Test Cable           | EMCI            | EMC104-SM-SM-1000           | 180810      | 2023/7/10       | 2024/7/9         |
| 7                                | Test Cable           | EMCI            | EMC104-SM-SM-3000           | 220322      | 2023/3/14       | 2024/3/13        |
| 8                                | Test Cable           | EMCI            | EMC104-SM-SM-7000           | 220324      | 2023/3/14       | 2024/3/13        |
| 9                                | EXA Signal Analyzer  | keysight        | N9020B                      | MY57120120  | 2023/2/24       | 2024/2/23        |
| 10                               | Loop Ant             | Electro-Metrics | EMCI-LPA600                 | 291         | 2022/9/19       | 2023/9/18        |
| 11                               | Horn Antenna         | RFSPIN          | DRH18-E                     | 211202A18EN | 2023/5/12       | 2024/5/11        |
| 12                               | Horn Ant             | Schwarzbeck     | BBHA 9170D                  | 1136        | 2023/5/12       | 2024/5/11        |
| 13                               | Log-bicon Antenna    | Schwarzbeck     | VULB9168                    | 1369        | 2023/5/9        | 2024/5/8         |
| 14                               | 6dB Attenuator       | EMCI            | EMCI-N-6-06                 | AT-06001    | 2023/5/9        | 2024/5/8         |
| 15                               | Test Cable           | EMCI            | EMC101G-KM-KM-3000          | 220329      | 2023/3/14       | 2024/3/13        |
| 16                               | Test Cable           | EMCI            | EMC102-KM-KM-1000           | 220327      | 2023/3/14       | 2024/3/13        |
| 17                               | Measurement Software | EZ              | EZ EMC (Version NB-03A1-01) | N/A         | N/A             | N/A              |

| Number of Hopping Frequency |                   |              |          |            |                 |                  |
|-----------------------------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item                        | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1                           | Spectrum Analyzer | R&S          | FSP 40   | 100129     | 2022/10/7       | 2023/10/7        |

| Average Time of Occupancy |                   |              |          |            |                 |                  |
|---------------------------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item                      | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1                         | Spectrum Analyzer | R&S          | FSP 40   | 100129     | 2022/10/7       | 2023/10/7        |

| Hopping Channel Separation |                   |              |          |            |                 |                  |
|----------------------------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item                       | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1                          | Spectrum Analyzer | R&S          | FSP 40   | 100129     | 2022/10/7       | 2023/10/7        |

| Bandwidth |                   |              |          |            |                 |                  |
|-----------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item      | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1         | Spectrum Analyzer | R&S          | FSP 40   | 100129     | 2022/10/7       | 2023/10/7        |

| Output Power |                   |              |          |            |                 |                  |
|--------------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item         | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1            | Power Meter       | Keysight     | 8990B    | MY51000517 | 2023/3/15       | 2024/3/14        |
| 2            | Power Sensor      | Keysight     | N1923A   | MY58310005 | 2023/3/15       | 2024/3/14        |

| Antenna conducted Spurious Emission |                   |              |          |            |                 |                  |
|-------------------------------------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item                                | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1                                   | Spectrum Analyzer | R&S          | FSP 40   | 100129     | 2022/10/7       | 2023/10/7        |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.  
All calibration period of equipment list is one year.

**12 EUT TEST PHOTO**

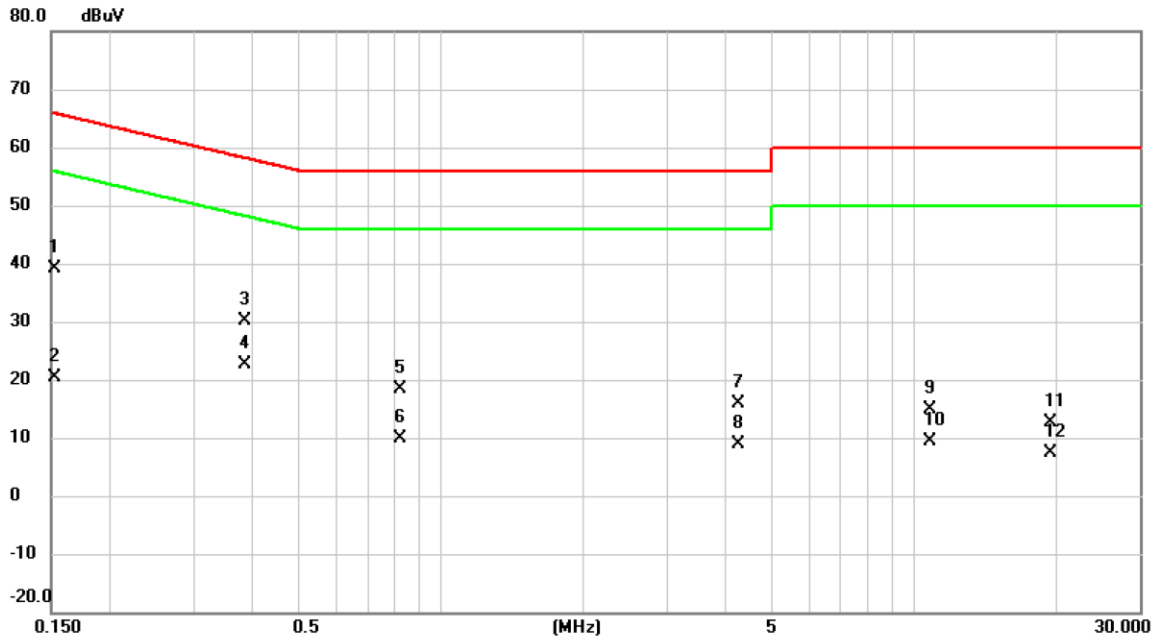
Please refer to document Appendix No.: TP-2303T057-FCCP-1 (APPENDIX-TEST PHOTOS).

**13 EUT PHOTOS**

Please refer to document Appendix No.: EP-2303T057-2 (APPENDIX-EUT PHOTOS).

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

|                |        |             |           |
|----------------|--------|-------------|-----------|
| Test Mode      | Normal | Tested Date | 2023/6/15 |
| Test Frequency | -      | Phase       | Line      |

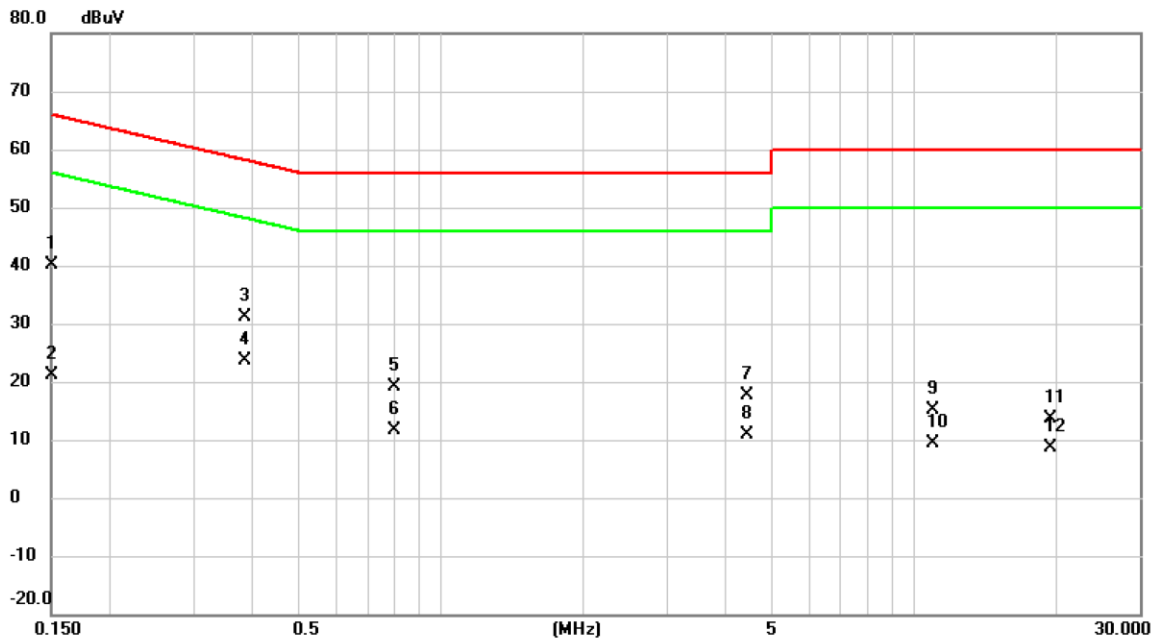


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1522       | 39.08                    | 0.04                    | 39.12                    | 65.88         | -26.76       | QP       |         |
| 2   |     | 0.1522       | 20.30                    | 0.04                    | 20.34                    | 55.88         | -35.54       | AVG      |         |
| 3   |     | 0.3840       | 30.19                    | 0.02                    | 30.21                    | 58.19         | -27.98       | QP       |         |
| 4   | *   | 0.3840       | 22.51                    | 0.02                    | 22.53                    | 48.19         | -25.66       | AVG      |         |
| 5   |     | 0.8205       | 18.43                    | 0.01                    | 18.44                    | 56.00         | -37.56       | QP       |         |
| 6   |     | 0.8205       | 9.86                     | 0.01                    | 9.87                     | 46.00         | -36.13       | AVG      |         |
| 7   |     | 4.2585       | 15.94                    | 0.05                    | 15.99                    | 56.00         | -40.01       | QP       |         |
| 8   |     | 4.2585       | 8.89                     | 0.05                    | 8.94                     | 46.00         | -37.06       | AVG      |         |
| 9   |     | 10.8195      | 14.85                    | 0.12                    | 14.97                    | 60.00         | -45.03       | QP       |         |
| 10  |     | 10.8195      | 9.32                     | 0.12                    | 9.44                     | 50.00         | -40.56       | AVG      |         |
| 11  |     | 19.4888      | 12.53                    | 0.18                    | 12.71                    | 60.00         | -47.29       | QP       |         |
| 12  |     | 19.4888      | 7.17                     | 0.18                    | 7.35                     | 50.00         | -42.65       | AVG      |         |

#### REMARKS:

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

|                |        |             |           |
|----------------|--------|-------------|-----------|
| Test Mode      | Normal | Tested Date | 2023/6/15 |
| Test Frequency | -      | Phase       | Neutral   |

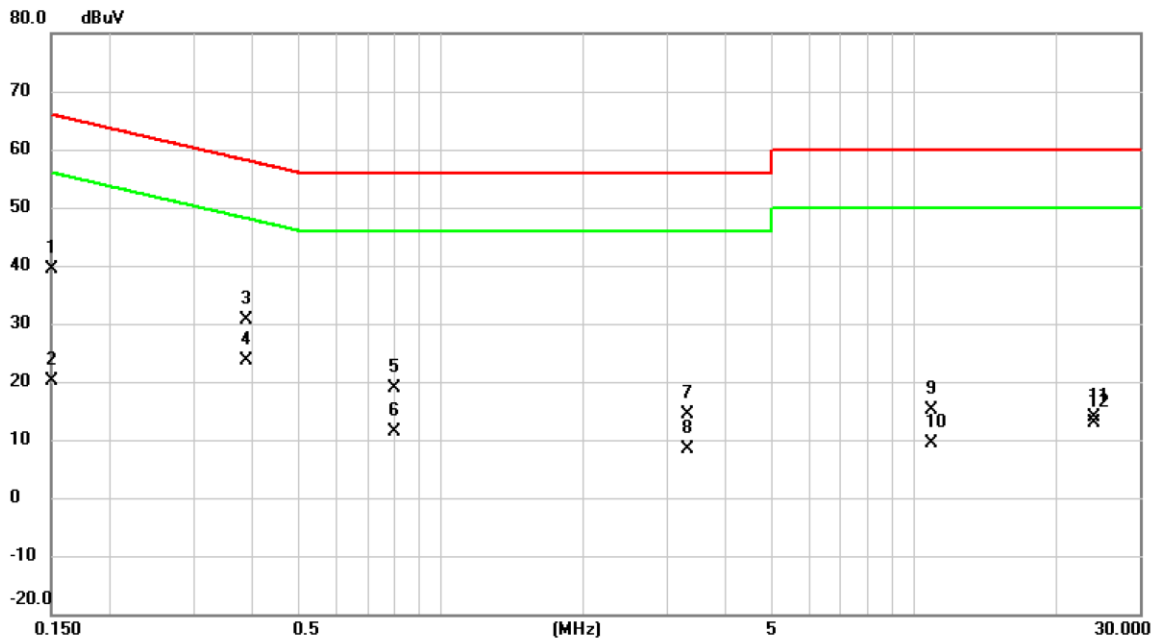


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1500       | 40.05                    | 0.04                    | 40.09                    | 66.00         | -25.91       | QP       |         |
| 2   |     | 0.1500       | 21.16                    | 0.04                    | 21.20                    | 56.00         | -34.80       | AVG      |         |
| 3   |     | 0.3862       | 31.07                    | 0.02                    | 31.09                    | 58.15         | -27.06       | QP       |         |
| 4   | *   | 0.3862       | 23.66                    | 0.02                    | 23.68                    | 48.15         | -24.47       | AVG      |         |
| 5   |     | 0.7980       | 19.12                    | 0.01                    | 19.13                    | 56.00         | -36.87       | QP       |         |
| 6   |     | 0.7980       | 11.53                    | 0.01                    | 11.54                    | 46.00         | -34.46       | AVG      |         |
| 7   |     | 4.4340       | 17.69                    | 0.05                    | 17.74                    | 56.00         | -38.26       | QP       |         |
| 8   |     | 4.4340       | 10.85                    | 0.05                    | 10.90                    | 46.00         | -35.10       | AVG      |         |
| 9   |     | 10.9748      | 15.08                    | 0.13                    | 15.21                    | 60.00         | -44.79       | QP       |         |
| 10  |     | 10.9748      | 9.33                     | 0.13                    | 9.46                     | 50.00         | -40.54       | AVG      |         |
| 11  |     | 19.4190      | 13.51                    | 0.18                    | 13.69                    | 60.00         | -46.31       | QP       |         |
| 12  |     | 19.4190      | 8.54                     | 0.18                    | 8.72                     | 50.00         | -41.28       | AVG      |         |

#### REMARKS:

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

|                |      |             |           |
|----------------|------|-------------|-----------|
| Test Mode      | Idle | Tested Date | 2023/6/15 |
| Test Frequency | -    | Phase       | Line      |

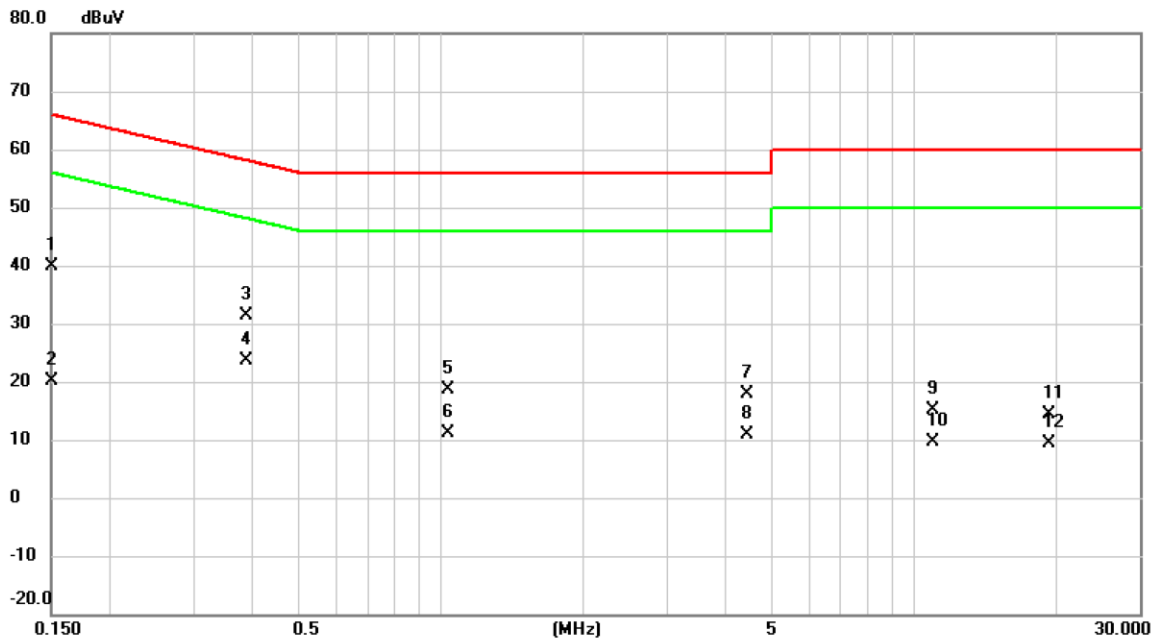


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1500       | 39.38                    | 0.04                    | 39.42                    | 66.00         | -26.58       | QP       |         |
| 2   |     | 0.1500       | 20.07                    | 0.04                    | 20.11                    | 56.00         | -35.89       | AVG      |         |
| 3   |     | 0.3885       | 30.56                    | 0.02                    | 30.58                    | 58.10         | -27.52       | QP       |         |
| 4   | *   | 0.3885       | 23.59                    | 0.02                    | 23.61                    | 48.10         | -24.49       | AVG      |         |
| 5   |     | 0.7957       | 18.75                    | 0.01                    | 18.76                    | 56.00         | -37.24       | QP       |         |
| 6   |     | 0.7957       | 11.26                    | 0.01                    | 11.27                    | 46.00         | -34.73       | AVG      |         |
| 7   |     | 3.3203       | 14.42                    | 0.05                    | 14.47                    | 56.00         | -41.53       | QP       |         |
| 8   |     | 3.3203       | 8.35                     | 0.05                    | 8.40                     | 46.00         | -37.60       | AVG      |         |
| 9   |     | 10.9073      | 15.07                    | 0.13                    | 15.20                    | 60.00         | -44.80       | QP       |         |
| 10  |     | 10.9073      | 9.34                     | 0.13                    | 9.47                     | 50.00         | -40.53       | AVG      |         |
| 11  |     | 24.0540      | 13.62                    | 0.23                    | 13.85                    | 60.00         | -46.15       | QP       |         |
| 12  |     | 24.0540      | 12.69                    | 0.23                    | 12.92                    | 50.00         | -37.08       | AVG      |         |

## REMARKS:

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

|                |      |             |           |
|----------------|------|-------------|-----------|
| Test Mode      | Idle | Tested Date | 2023/6/15 |
| Test Frequency | -    | 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 | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1500       | 39.83                    | 0.04                    | 39.87                    | 66.00         | -26.13       | QP       |         |
| 2   |     | 0.1500       | 20.19                    | 0.04                    | 20.23                    | 56.00         | -35.77       | AVG      |         |
| 3   |     | 0.3885       | 31.26                    | 0.02                    | 31.28                    | 58.10         | -26.82       | QP       |         |
| 4   | *   | 0.3885       | 23.49                    | 0.02                    | 23.51                    | 48.10         | -24.59       | AVG      |         |
| 5   |     | 1.0387       | 18.51                    | 0.01                    | 18.52                    | 56.00         | -37.48       | QP       |         |
| 6   |     | 1.0387       | 11.15                    | 0.01                    | 11.16                    | 46.00         | -34.84       | AVG      |         |
| 7   |     | 4.4385       | 17.73                    | 0.05                    | 17.78                    | 56.00         | -38.22       | QP       |         |
| 8   |     | 4.4385       | 10.87                    | 0.05                    | 10.92                    | 46.00         | -35.08       | AVG      |         |
| 9   |     | 10.9703      | 14.89                    | 0.13                    | 15.02                    | 60.00         | -44.98       | QP       |         |
| 10  |     | 10.9703      | 9.50                     | 0.13                    | 9.63                     | 50.00         | -40.37       | AVG      |         |
| 11  |     | 19.2930      | 14.32                    | 0.18                    | 14.50                    | 60.00         | -45.50       | QP       |         |
| 12  |     | 19.2930      | 9.24                     | 0.18                    | 9.42                     | 50.00         | -40.58       | AVG      |         |

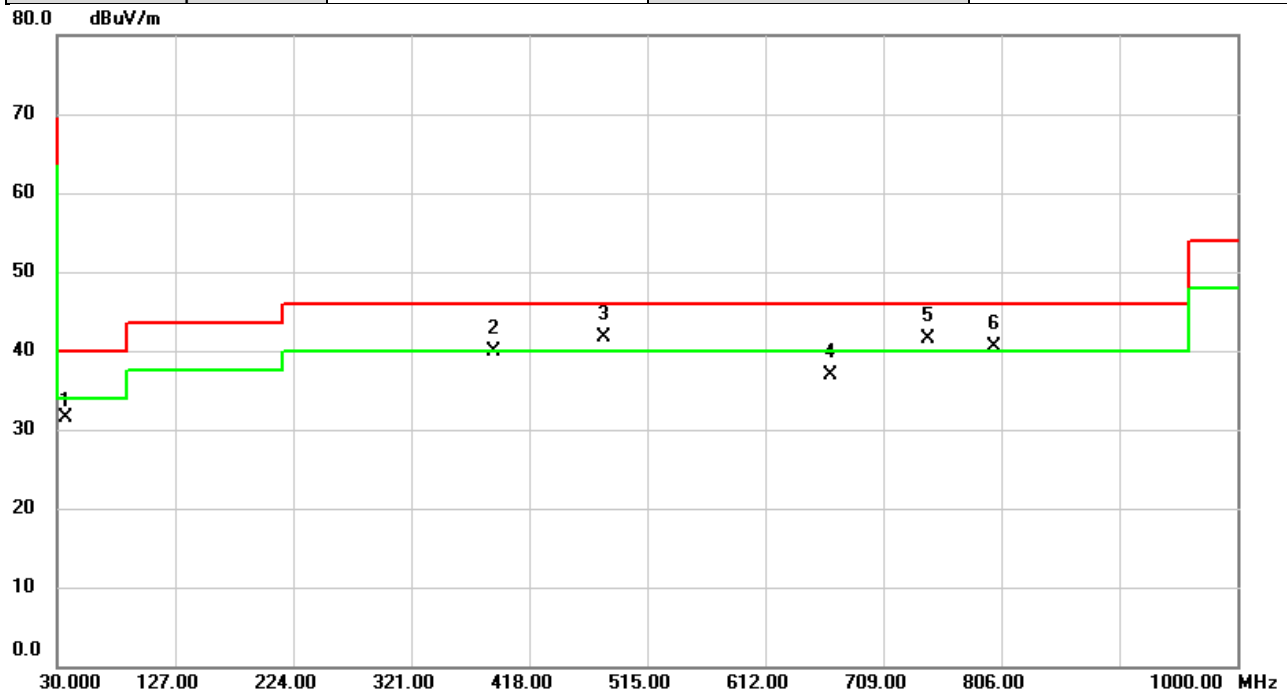
#### REMARKS:

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

## **APPENDIX B    RADIATED EMISSIONS - 30 MHZ TO 1 GHZ**

For External Antenna:

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/8/24 |
| Test Frequency | 2480MHz     | Polarization | Vertical  |
| Temp           | 25°C        | Hum.         | 57%       |

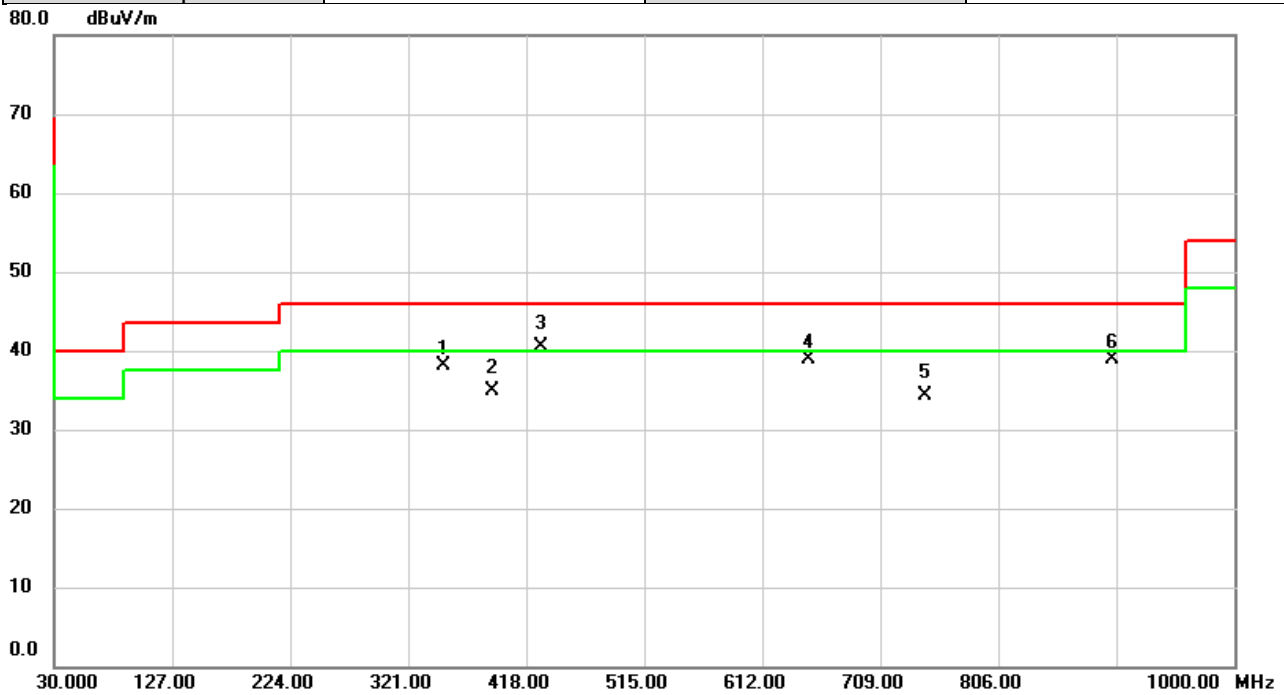


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over  |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|-------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB    | Detector | Comment |
| 1   |     | 37.6953  | 43.46         | -11.99         | 31.47        | 40.00  | -8.53 | peak     |         |
| 2   |     | 388.2857 | 48.91         | -8.92          | 39.99        | 46.00  | -6.01 | QP       |         |
| 3   | *   | 480.0153 | 48.24         | -6.57          | 41.67        | 46.00  | -4.33 | QP       |         |
| 4   |     | 666.0937 | 39.83         | -2.90          | 36.93        | 46.00  | -9.07 | QP       |         |
| 5   | !   | 745.6982 | 42.89         | -1.46          | 41.43        | 46.00  | -4.57 | QP       |         |
| 6   | !   | 799.8567 | 41.26         | -0.79          | 40.47        | 46.00  | -5.53 | QP       |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/8/24  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 57%        |



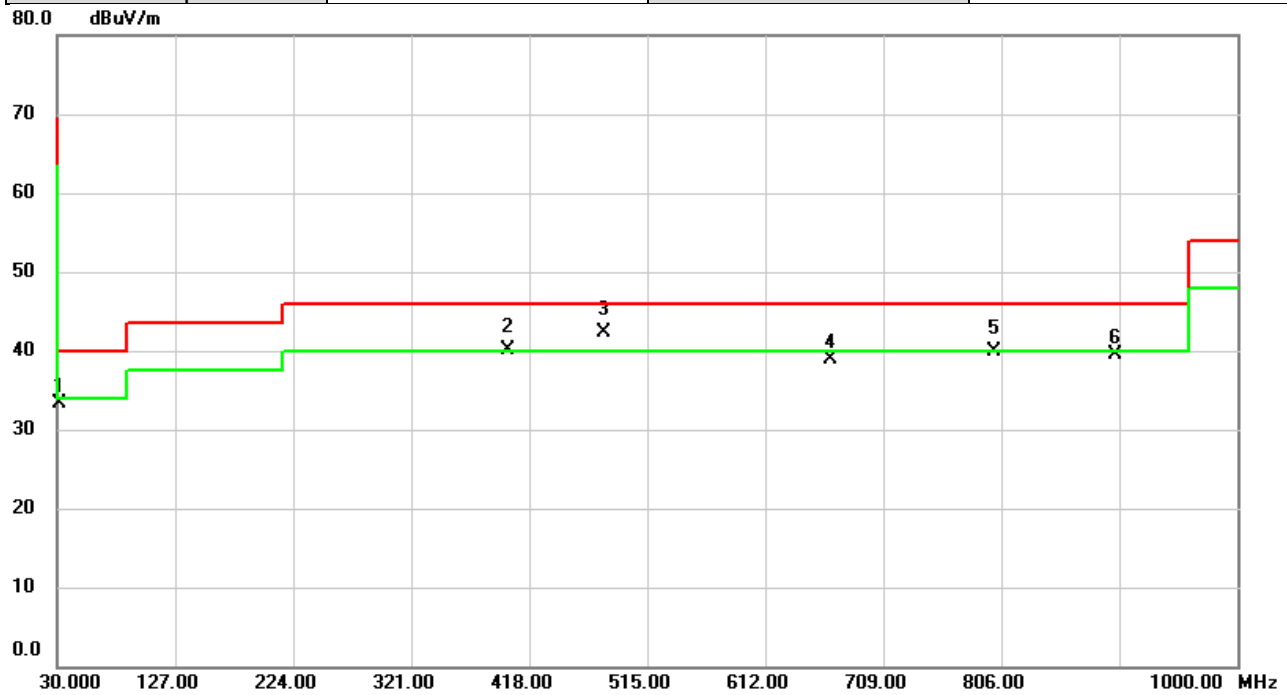
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 350.0030 | 48.31         | -10.12         | 38.19        | 46.00  | -7.81  | peak     |         |
| 2   |     | 390.1610 | 43.76         | -8.87          | 34.89        | 46.00  | -11.11 | QP       |         |
| 3   | *   | 429.7370 | 48.24         | -7.68          | 40.56        | 46.00  | -5.44  | QP       |         |
| 4   |     | 649.9917 | 42.02         | -3.09          | 38.93        | 46.00  | -7.07  | peak     |         |
| 5   |     | 745.6337 | 35.76         | -1.46          | 34.30        | 46.00  | -11.70 | QP       |         |
| 6   |     | 899.7990 | 38.42         | 0.54           | 38.96        | 46.00  | -7.04  | peak     |         |

## REMARKS:

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

For Built-in antenna:

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/8/24 |
| Test Frequency | 2480MHz     | Polarization | Vertical  |
| Temp           | 25°C        | Hum.         | 57%       |

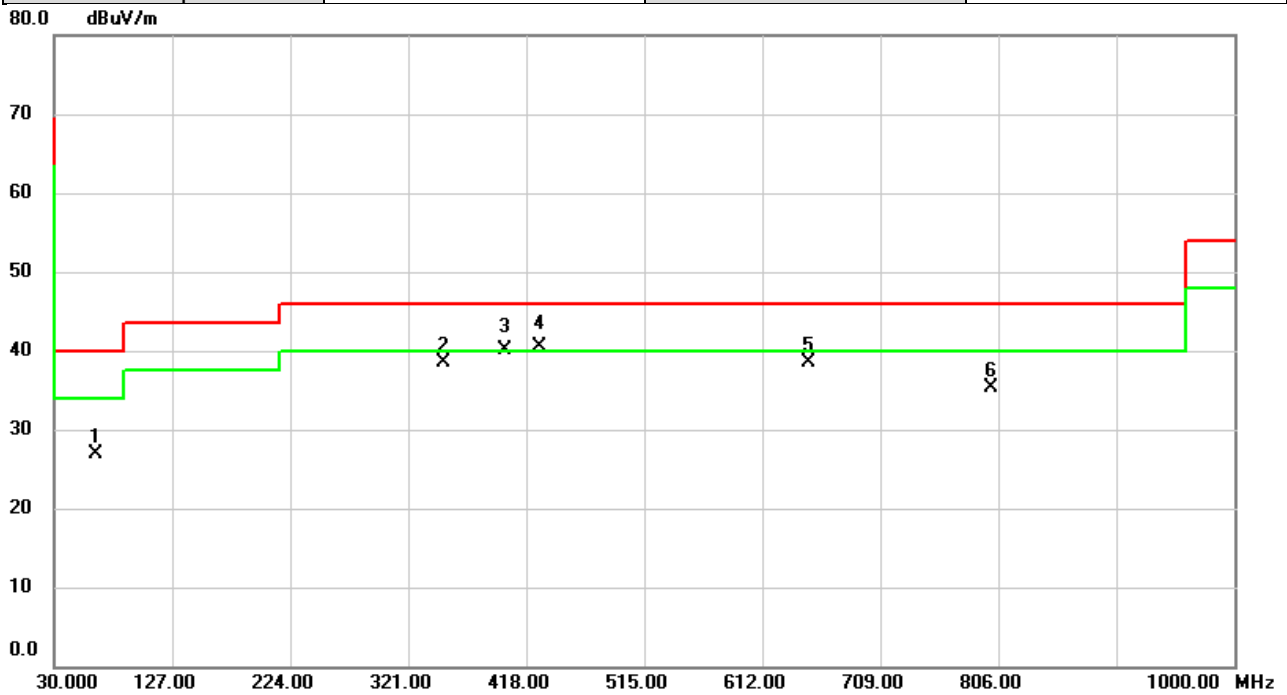


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over  |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|-------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB    | Detector | Comment |
| 1   |     | 32.0693  | 46.18         | -12.95         | 33.23        | 40.00  | -6.77 | peak     |         |
| 2   | !   | 399.9903 | 48.60         | -8.55          | 40.05        | 46.00  | -5.95 | QP       |         |
| 3   | *   | 480.0153 | 48.85         | -6.57          | 42.28        | 46.00  | -3.72 | QP       |         |
| 4   |     | 666.0613 | 41.84         | -2.90          | 38.94        | 46.00  | -7.06 | peak     |         |
| 5   |     | 799.8242 | 40.60         | -0.79          | 39.81        | 46.00  | -6.19 | QP       |         |
| 6   |     | 899.8637 | 38.93         | 0.54           | 39.47        | 46.00  | -6.53 | peak     |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/8/24  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 57%        |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 64.6613  | 39.77         | -12.82         | 26.95        | 40.00  | -13.05 | peak     |         |
| 2   |     | 350.0030 | 48.56         | -10.12         | 38.44        | 46.00  | -7.56  | peak     |         |
| 3   | !   | 399.9903 | 48.56         | -8.55          | 40.01        | 46.00  | -5.99  | QP       |         |
| 4   | *   | 428.9610 | 48.20         | -7.69          | 40.51        | 46.00  | -5.49  | QP       |         |
| 5   |     | 649.9917 | 41.59         | -3.09          | 38.50        | 46.00  | -7.50  | peak     |         |
| 6   |     | 799.9213 | 36.13         | -0.79          | 35.34        | 46.00  | -10.66 | peak     |         |

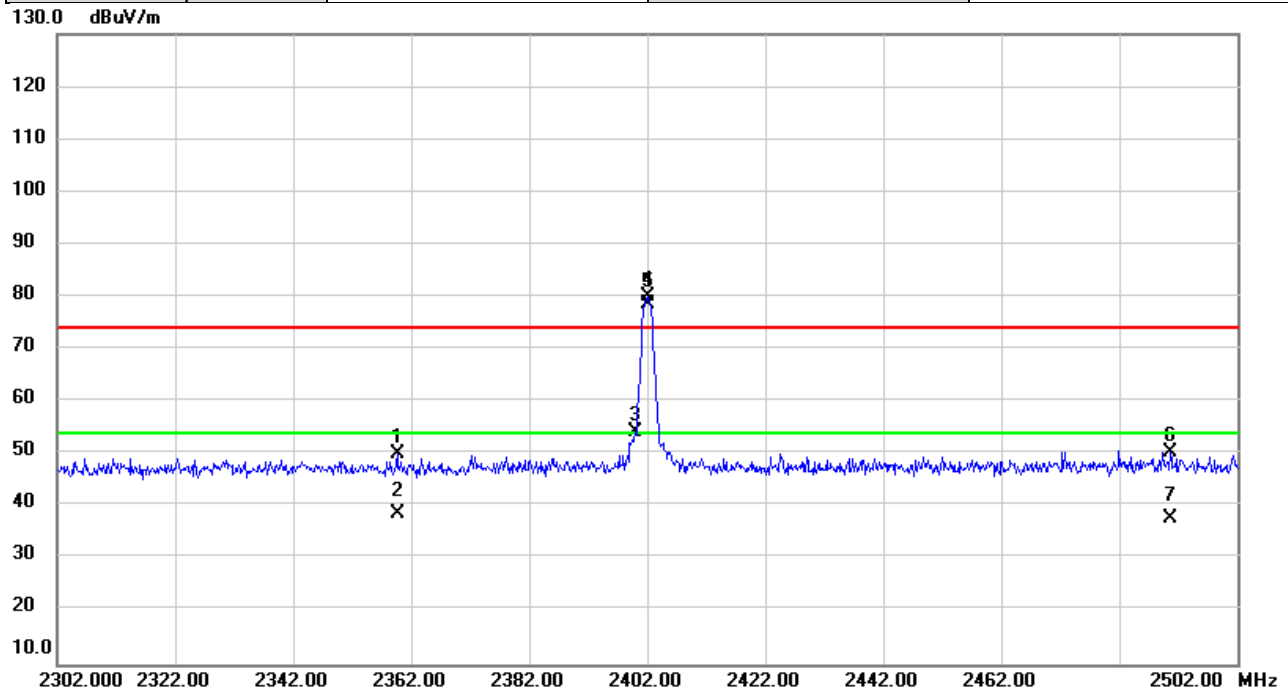
## REMARKS:

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

## **APPENDIX C    RADIATED EMISSIONS - ABOVE 1 GHZ**

For External Antenna:

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/27  |
| Test Frequency | 2402MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 50%        |



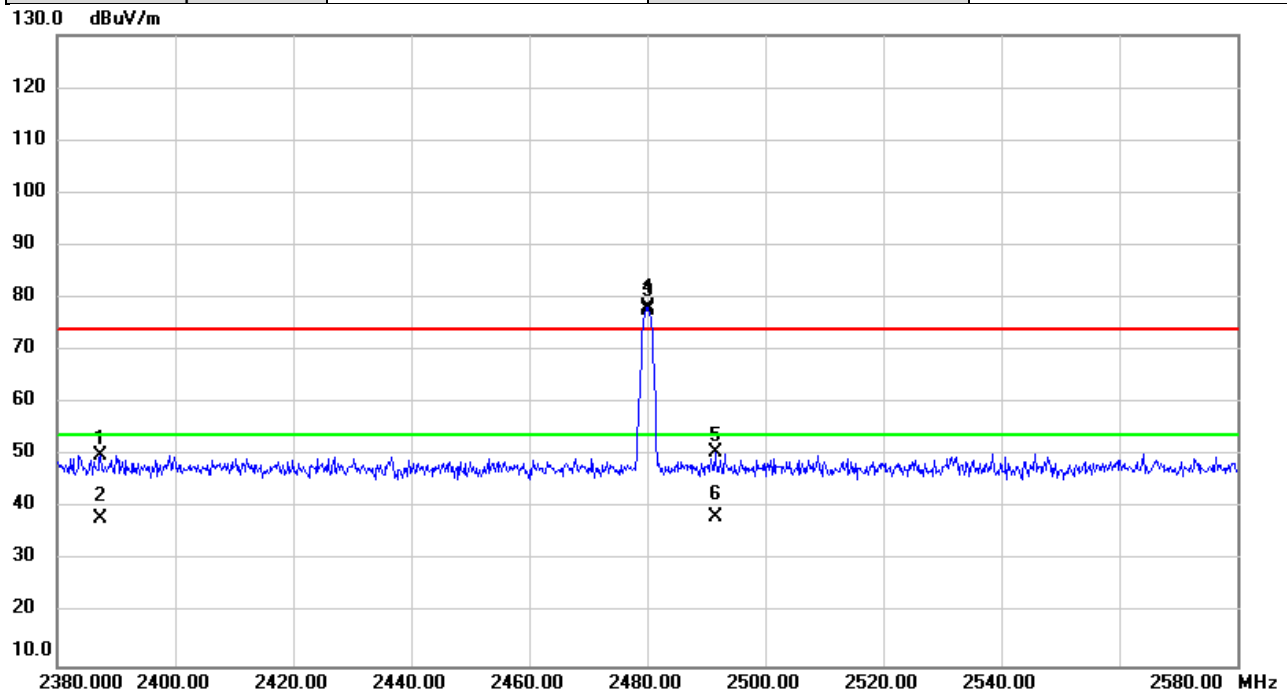
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment  |
| 1   |     | 2359.633 | 55.33         | -5.42          | 49.91       | 74.00  | -24.09 | peak     |          |
| 2   |     | 2359.633 | 44.17         | -5.42          | 38.75       | 54.00  | -15.25 | AVG      |          |
| 3   |     | 2399.987 | 59.59         | -5.37          | 54.22       | 74.00  | -19.78 | peak     | No Limit |
| 4   | X   | 2402.000 | 85.39         | -5.36          | 80.03       | 74.00  | 6.03   | peak     | No Limit |
| 5   | *   | 2402.000 | 83.87         | -5.36          | 78.51       | 54.00  | 24.51  | AVG      | No Limit |
| 6   |     | 2490.780 | 55.46         | -5.20          | 50.26       | 74.00  | -23.74 | peak     |          |
| 7   |     | 2490.780 | 43.06         | -5.20          | 37.86       | 54.00  | -16.14 | AVG      |          |

REMARKS:

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

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/27  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 50%        |

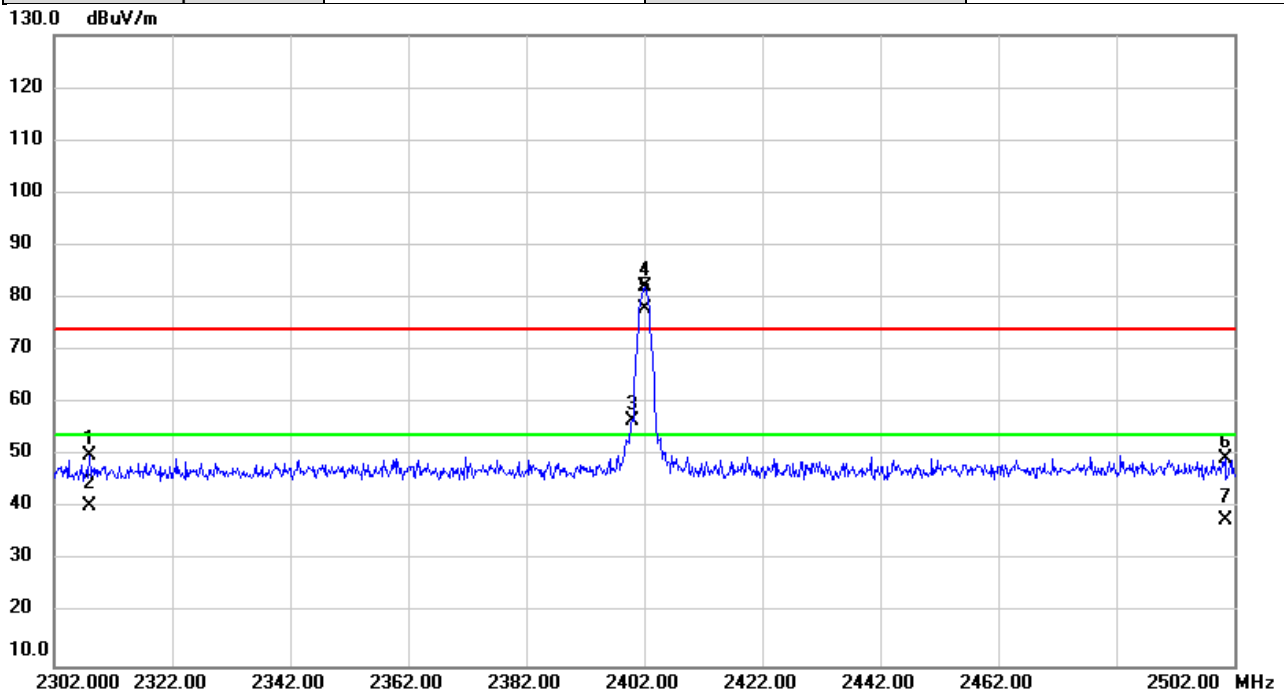


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment  |
| 1   |     | 2387.207 | 55.40         | -5.39          | 50.01        | 74.00  | -23.99 | peak     |          |
| 2   |     | 2387.207 | 43.34         | -5.39          | 37.95        | 54.00  | -16.05 | AVG      |          |
| 3   | X   | 2480.000 | 83.42         | -5.22          | 78.20        | 74.00  | 4.20   | peak     | No Limit |
| 4   | *   | 2480.000 | 82.93         | -5.22          | 77.71        | 54.00  | 23.71  | AVG      | No Limit |
| 5   |     | 2491.520 | 55.93         | -5.20          | 50.73        | 74.00  | -23.27 | peak     |          |
| 6   |     | 2491.520 | 43.44         | -5.20          | 38.24        | 54.00  | -15.76 | AVG      |          |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/27  |
| Test Frequency | 2402MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 50%        |

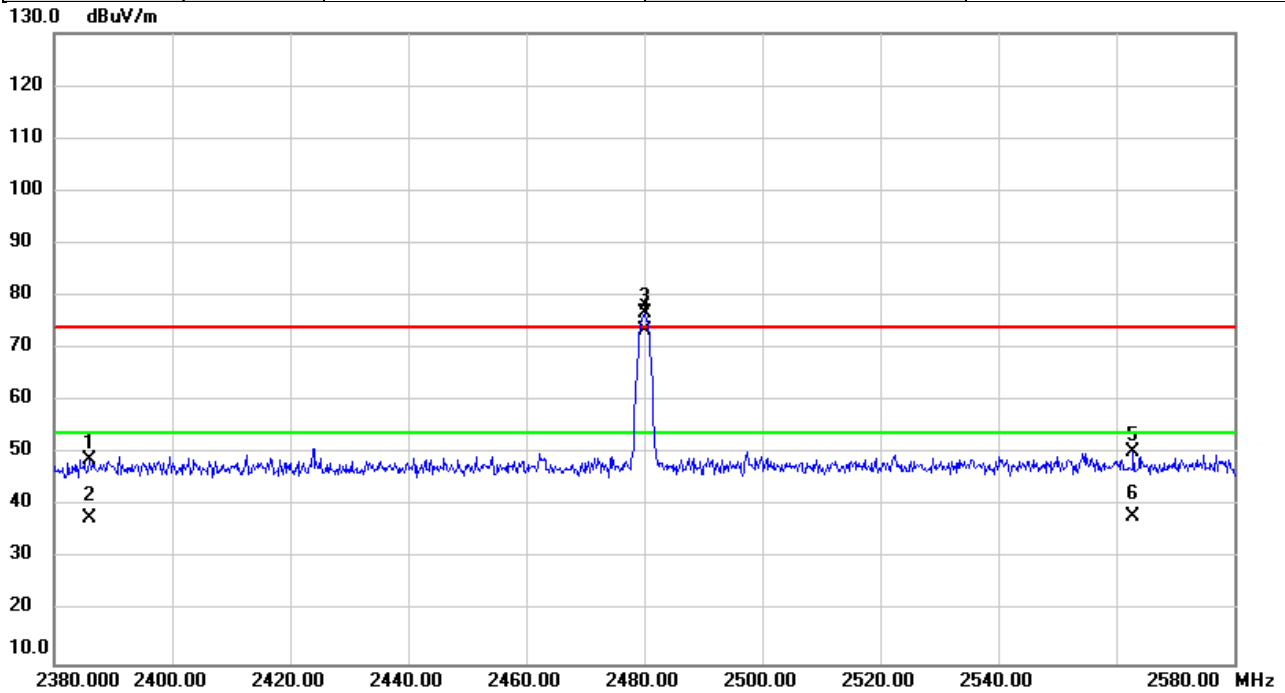


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment  |
| 1   |     | 2308.047 | 55.50         | -5.52          | 49.98        | 74.00  | -24.02 | peak     |          |
| 2   |     | 2308.047 | 45.89         | -5.52          | 40.37        | 54.00  | -13.63 | AVG      |          |
| 3   |     | 2400.000 | 62.13         | -5.37          | 56.76        | 74.00  | -17.24 | peak     | No Limit |
| 4   | X   | 2402.000 | 87.38         | -5.36          | 82.02        | 74.00  | 8.02   | peak     | No Limit |
| 5   | *   | 2402.000 | 83.43         | -5.36          | 78.07        | 54.00  | 24.07  | AVG      | No Limit |
| 6   |     | 2500.447 | 54.76         | -5.19          | 49.57        | 74.00  | -24.43 | peak     |          |
| 7   |     | 2500.447 | 43.04         | -5.19          | 37.85        | 54.00  | -16.15 | AVG      |          |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/27  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 50%        |

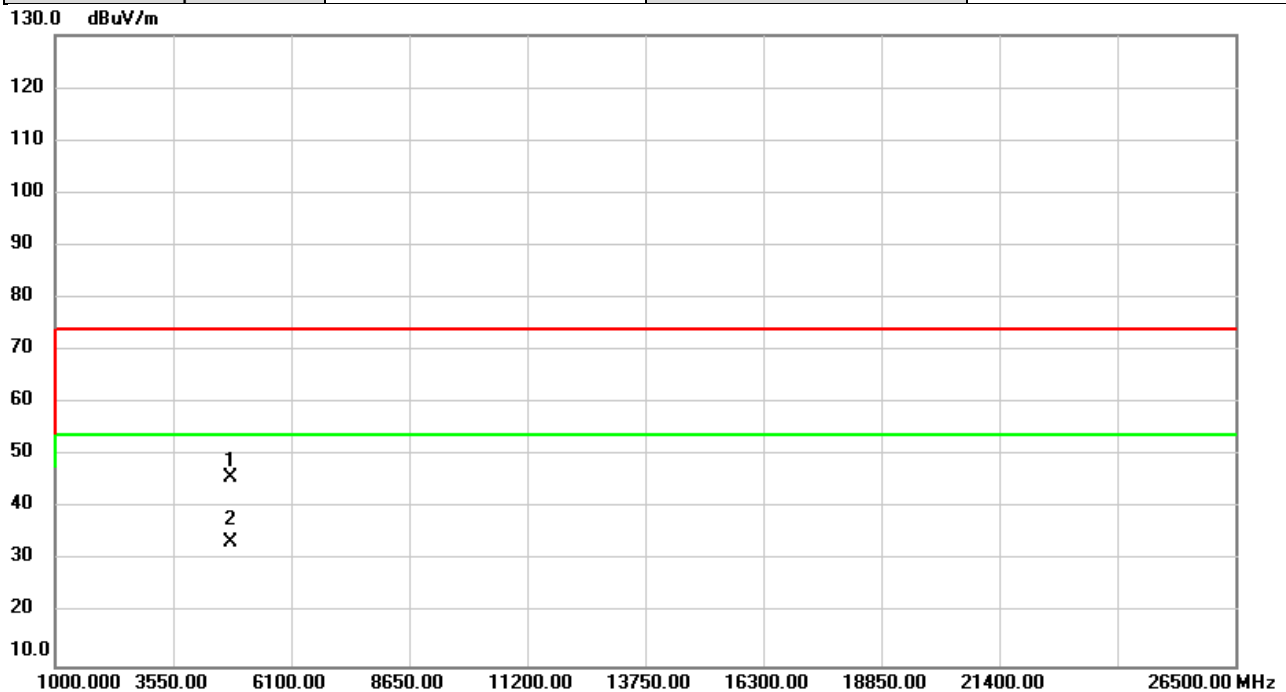


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment  |
| 1   |     | 2385.993 | 54.16         | -5.39          | 48.77        | 74.00  | -25.23 | peak     |          |
| 2   |     | 2385.993 | 43.22         | -5.39          | 37.83        | 54.00  | -16.17 | AVG      |          |
| 3   | X   | 2480.000 | 81.98         | -5.22          | 76.76        | 74.00  | 2.76   | peak     | No Limit |
| 4   | *   | 2480.000 | 78.73         | -5.22          | 73.51        | 54.00  | 19.51  | AVG      | No Limit |
| 5   |     | 2562.827 | 55.39         | -4.98          | 50.41        | 74.00  | -23.59 | peak     |          |
| 6   |     | 2562.827 | 42.93         | -4.98          | 37.95        | 54.00  | -16.05 | AVG      |          |

#### REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/28 |
| Test Frequency | 2402MHz     | Polarization | Vertical  |
| Temp           | 25°C        | Hum.         | 51%       |

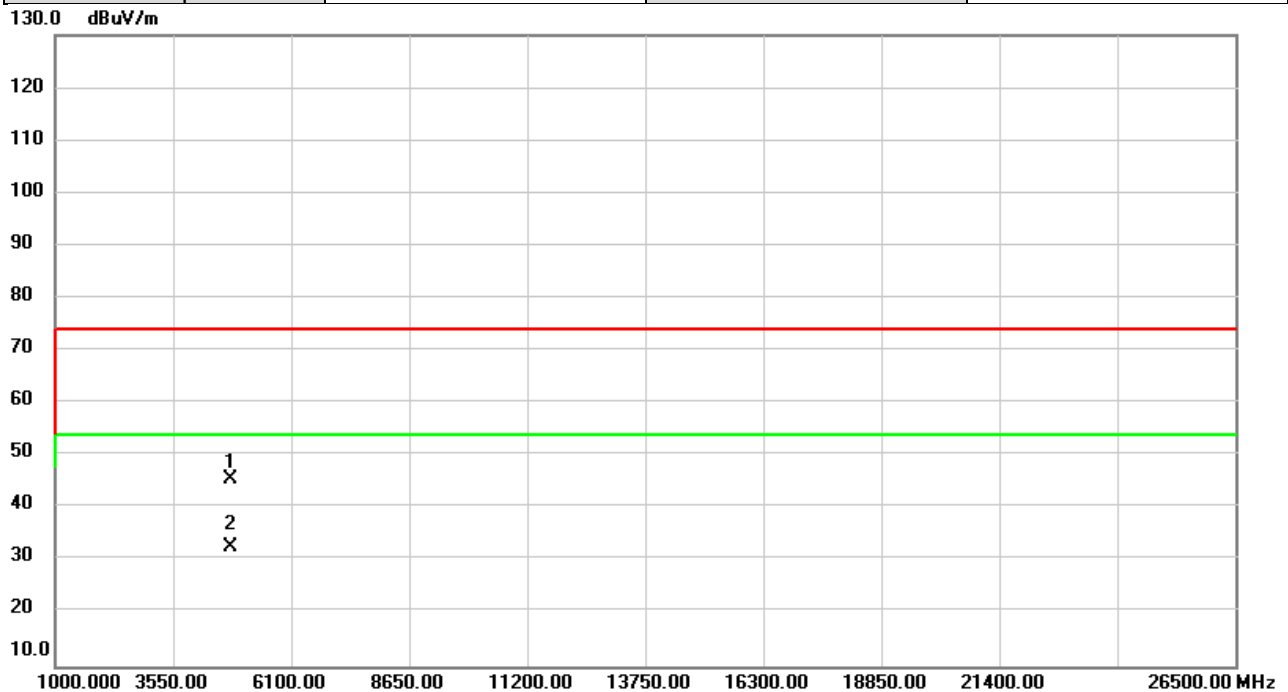


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4804.000 | 45.30         | 0.53           | 45.83        | 74.00  | -28.17 | peak     |         |
| 2   | *   | 4804.000 | 32.91         | 0.53           | 33.44        | 54.00  | -20.56 | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/28  |
| Test Frequency | 2402MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 51%        |

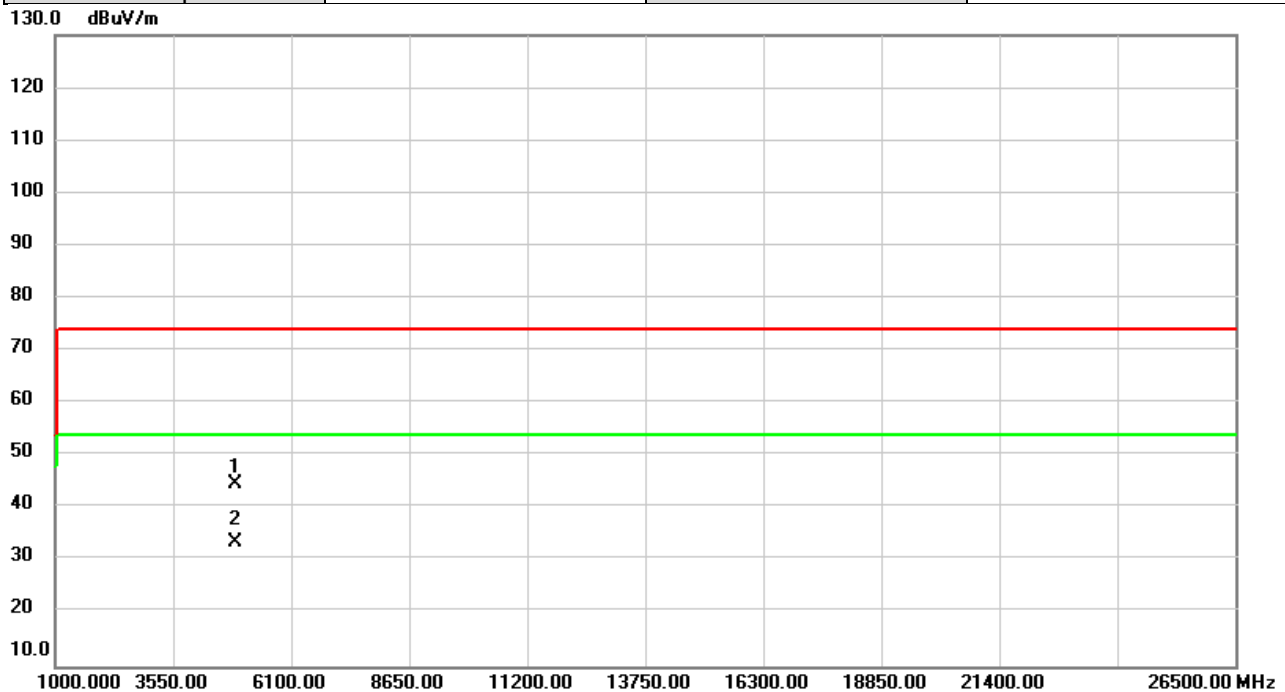


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4804.000     | 44.92                    | 0.53                    | 45.45                      | 74.00           | -28.55     | peak     |         |
| 2   | *   | 4804.000     | 32.19                    | 0.53                    | 32.72                      | 54.00           | -21.28     | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/28 |
| Test Frequency | 2441MHz     | Polarization | Vertical  |
| Temp           | 25°C        | Hum.         | 51%       |

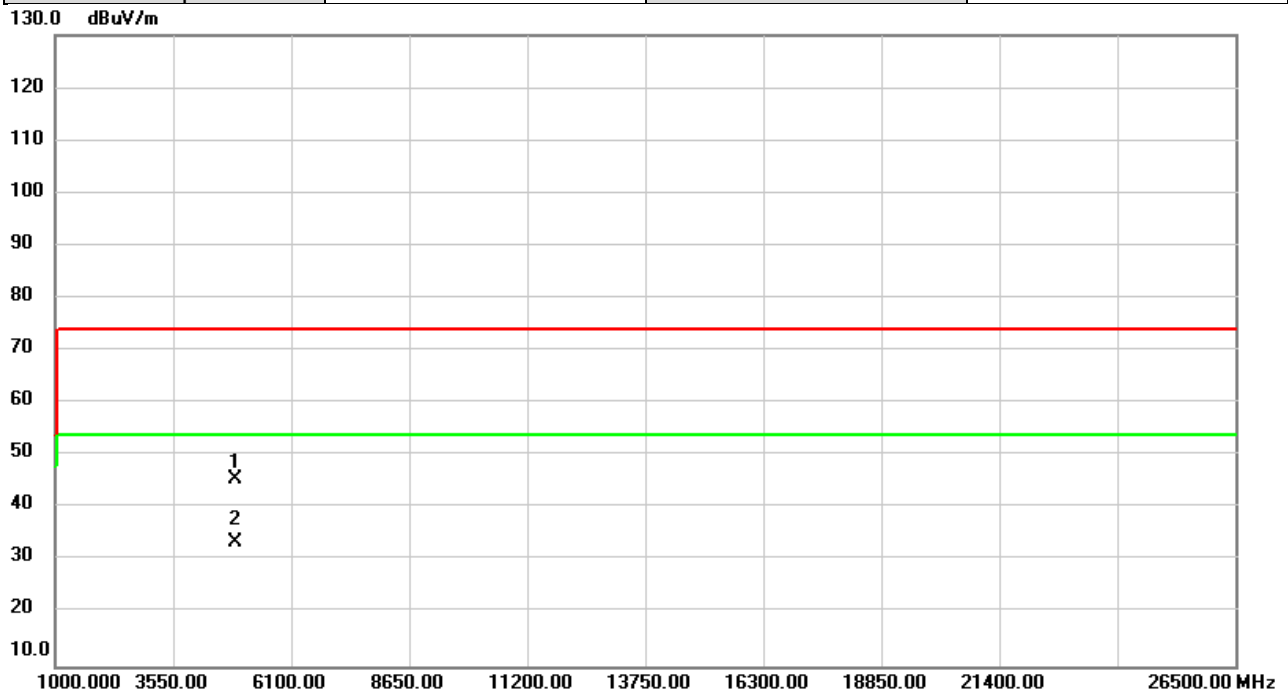


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4882.000 | 44.03         | 0.76           | 44.79        | 74.00  | -29.21 | peak     |         |
| 2   | *   | 4882.000 | 32.75         | 0.76           | 33.51        | 54.00  | -20.49 | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/28  |
| Test Frequency | 2441MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 51%        |

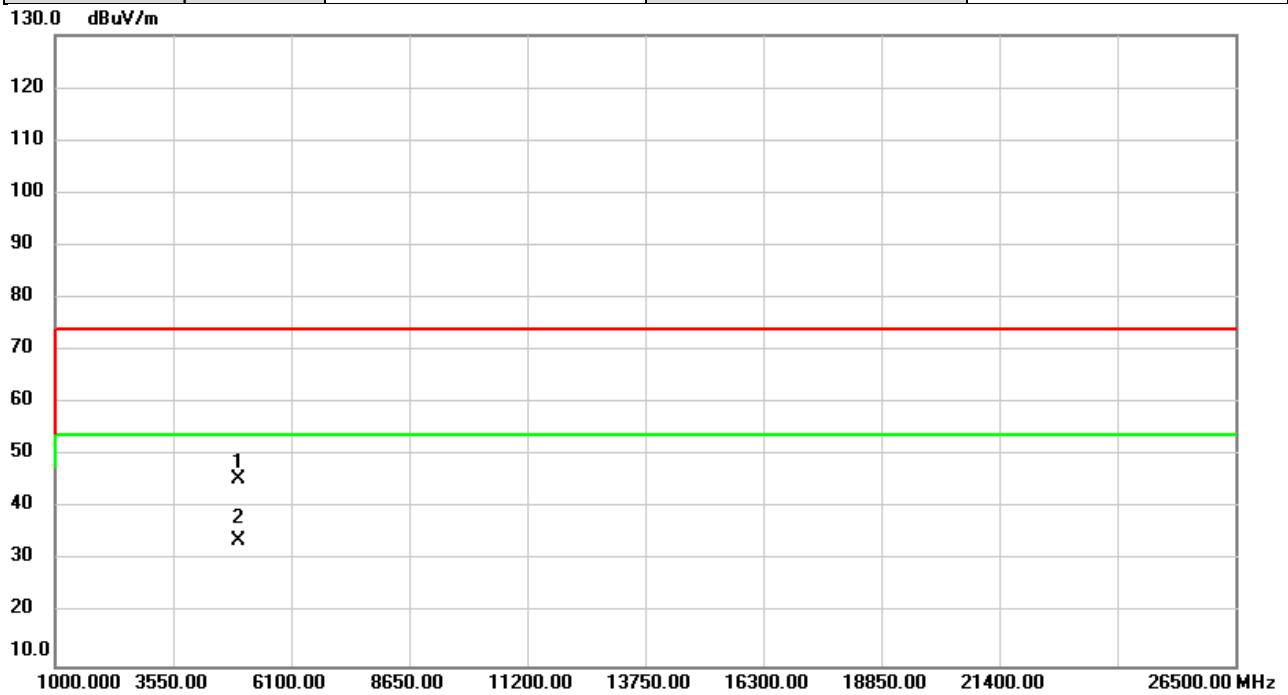


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4882.000 | 44.82         | 0.76           | 45.58        | 74.00  | -28.42 | peak     |         |
| 2   | *   | 4882.000 | 32.78         | 0.76           | 33.54        | 54.00  | -20.46 | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/28 |
| Test Frequency | 2480MHz     | Polarization | Vertical  |
| Temp           | 25°C        | Hum.         | 51%       |

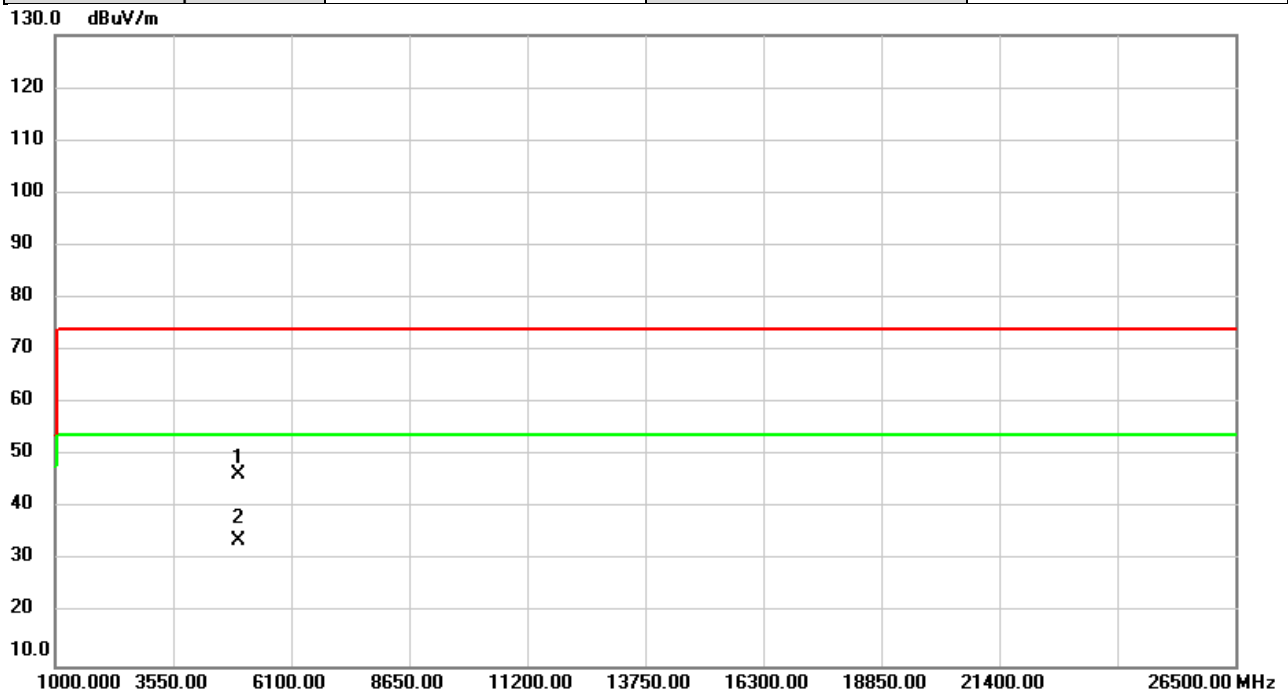


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4960.000     | 44.57                    | 1.00                    | 45.57                      | 74.00           | -28.43     | peak     |         |
| 2   | *   | 4960.000     | 32.83                    | 1.00                    | 33.83                      | 54.00           | -20.17     | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/28  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 51%        |

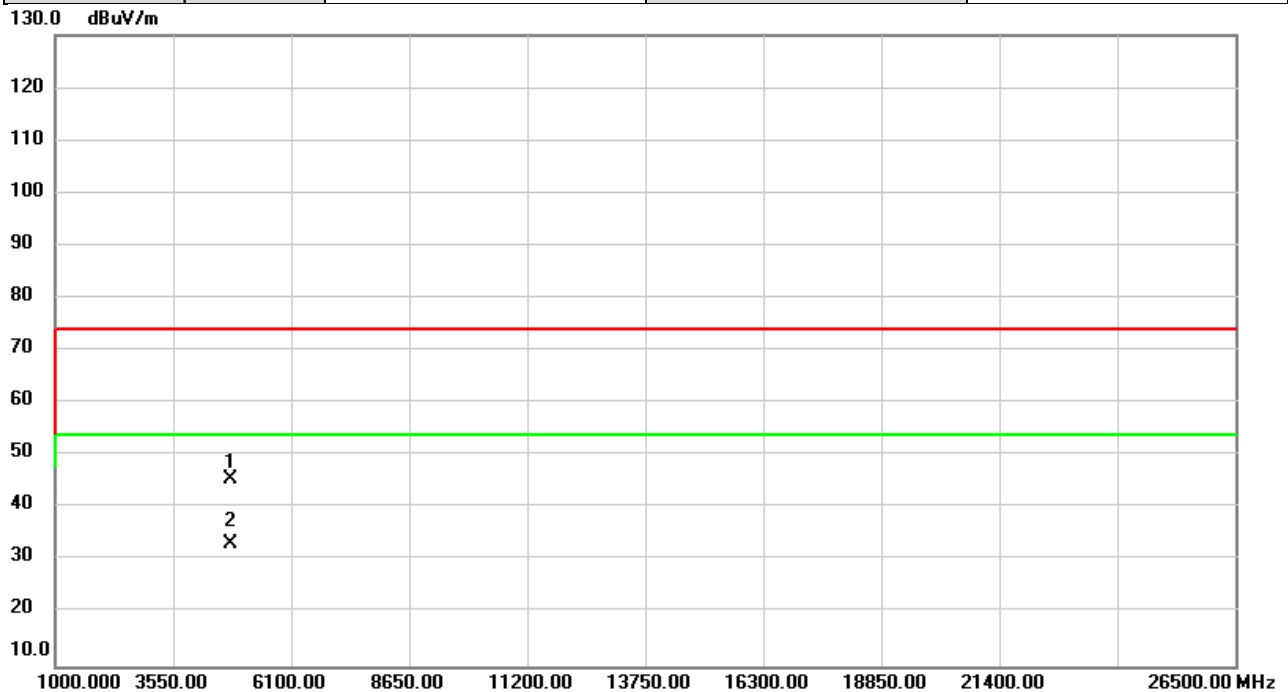


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4960.000     | 45.33                    | 1.00                    | 46.33                      | 74.00           | -27.67     | peak     |         |
| 2   | *   | 4960.000     | 32.87                    | 1.00                    | 33.87                      | 54.00           | -20.13     | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/28 |
| Test Frequency | 2402MHz     | Polarization | Vertical  |
| Temp           | 25°C        | Hum.         | 51%       |

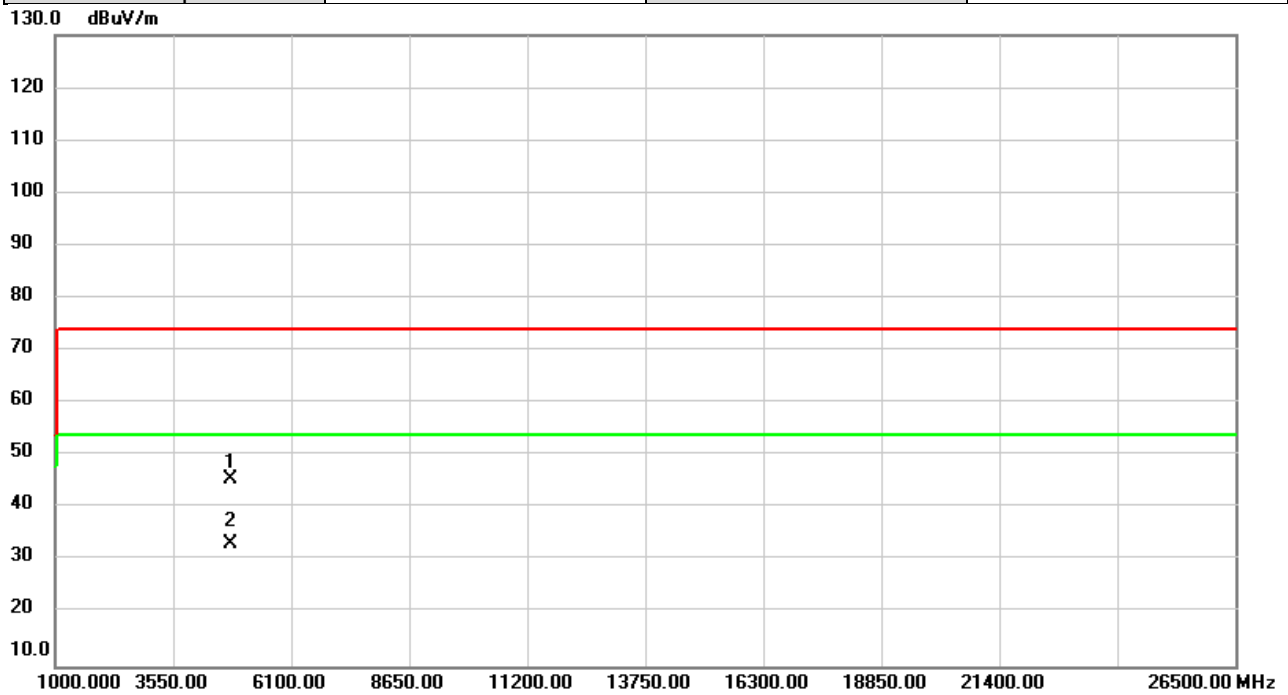


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4804.000 | 45.06         | 0.53           | 45.59        | 74.00  | -28.41 | peak     |         |
| 2   | *   | 4804.000 | 32.64         | 0.53           | 33.17        | 54.00  | -20.83 | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/28  |
| Test Frequency | 2402MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 51%        |

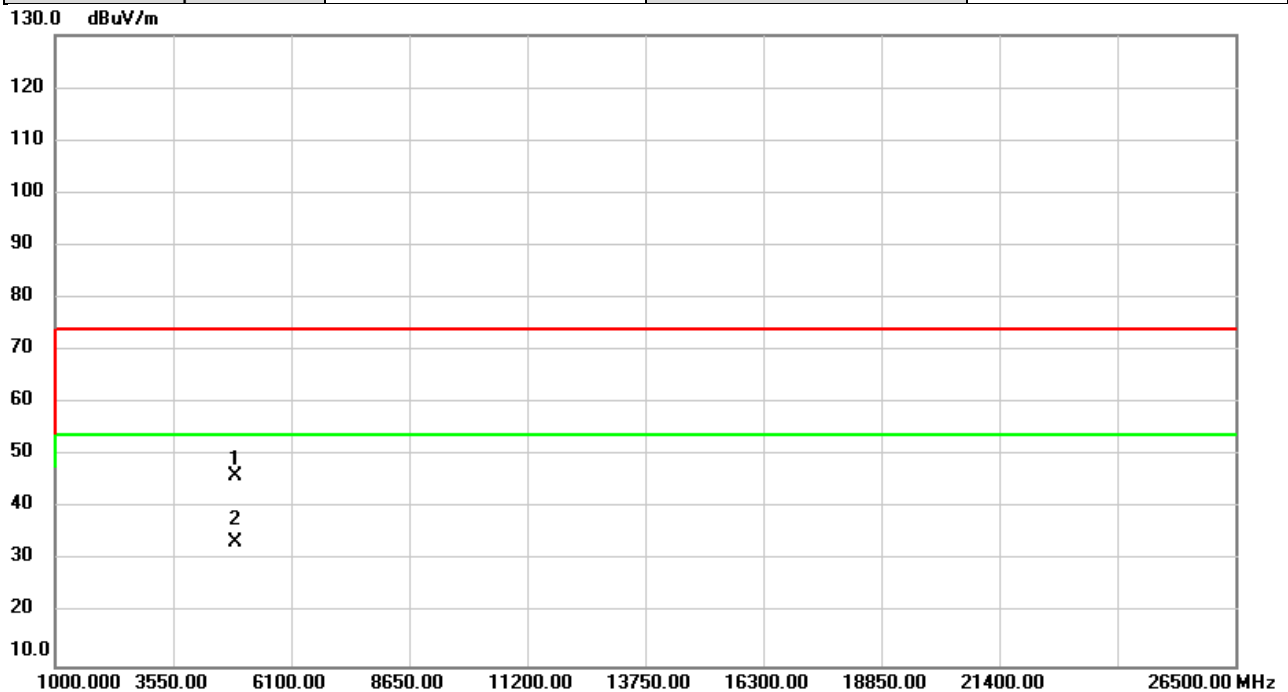


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4804.000 | 44.92         | 0.53           | 45.45        | 74.00  | -28.55 | peak     |         |
| 2   | *   | 4804.000 | 32.64         | 0.53           | 33.17        | 54.00  | -20.83 | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/28 |
| Test Frequency | 2441MHz     | Polarization | Vertical  |
| Temp           | 25°C        | Hum.         | 51%       |

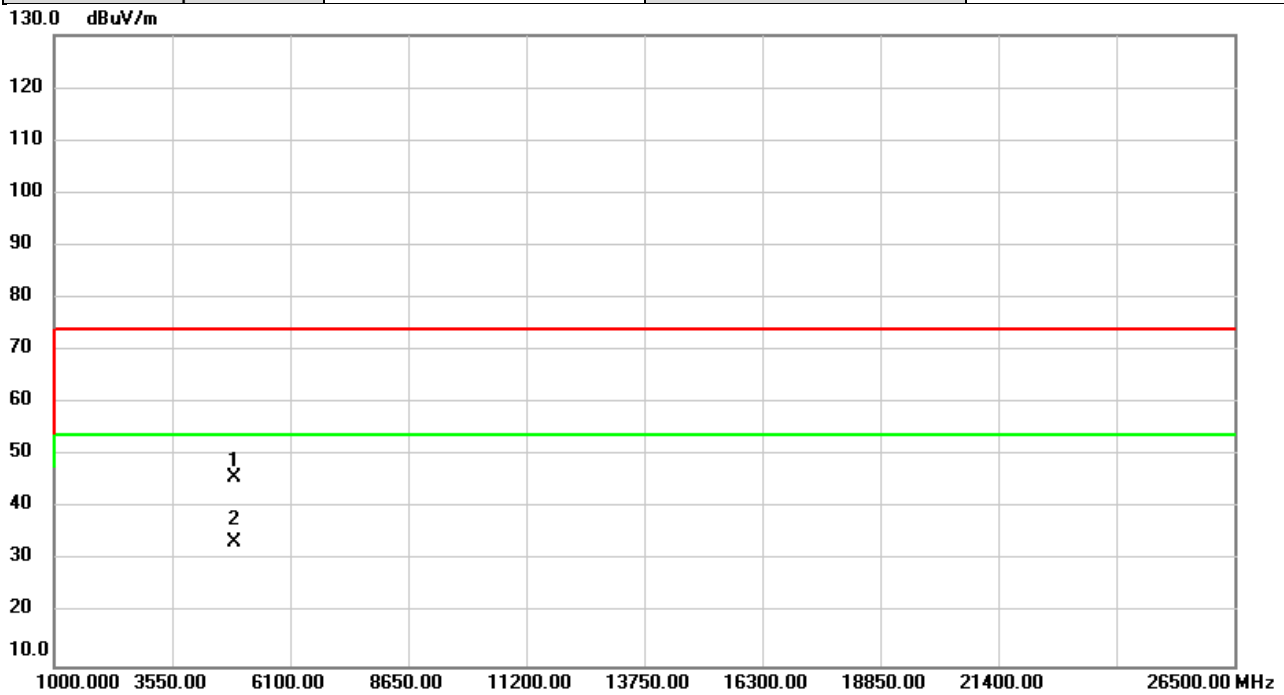


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4882.000     | 45.31                    | 0.76                    | 46.07                      | 74.00           | -27.93     | peak     |         |
| 2   | *   | 4882.000     | 32.84                    | 0.76                    | 33.60                      | 54.00           | -20.40     | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/28  |
| Test Frequency | 2441MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 51%        |

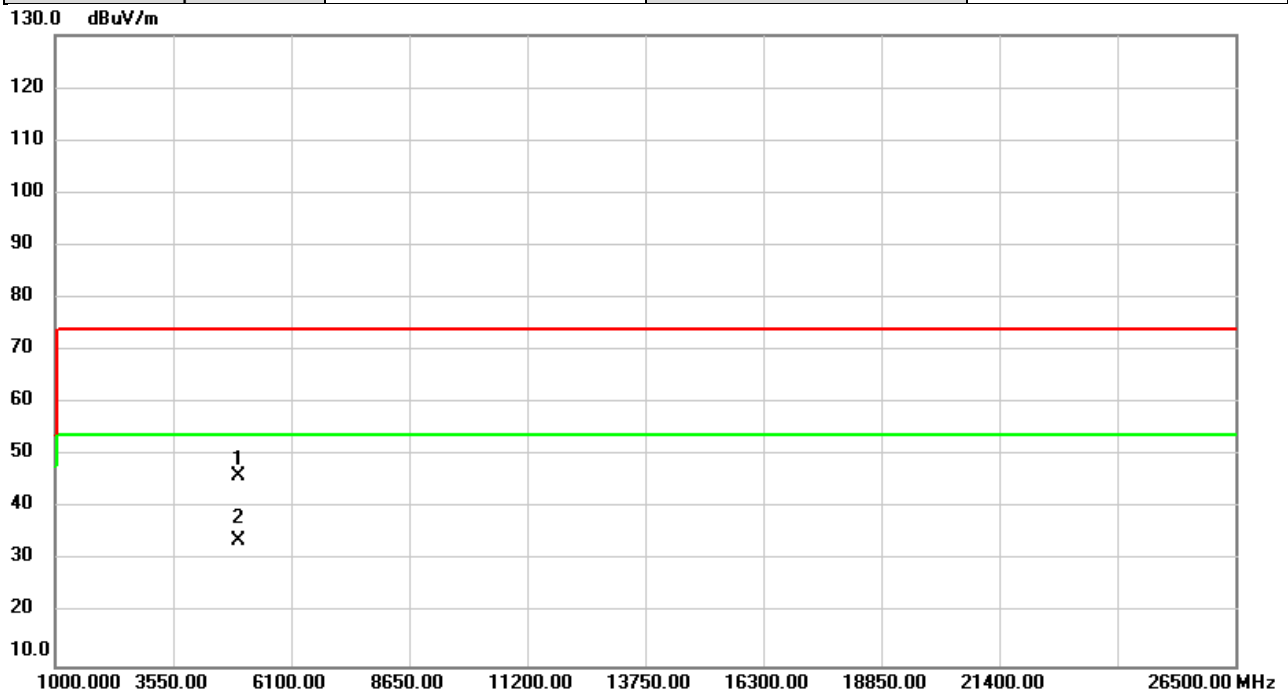


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4882.000 | 45.11         | 0.76           | 45.87        | 74.00  | -28.13 | peak     |         |
| 2   | *   | 4882.000 | 32.87         | 0.76           | 33.63        | 54.00  | -20.37 | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/28 |
| Test Frequency | 2480MHz     | Polarization | Vertical  |
| Temp           | 25°C        | Hum.         | 51%       |

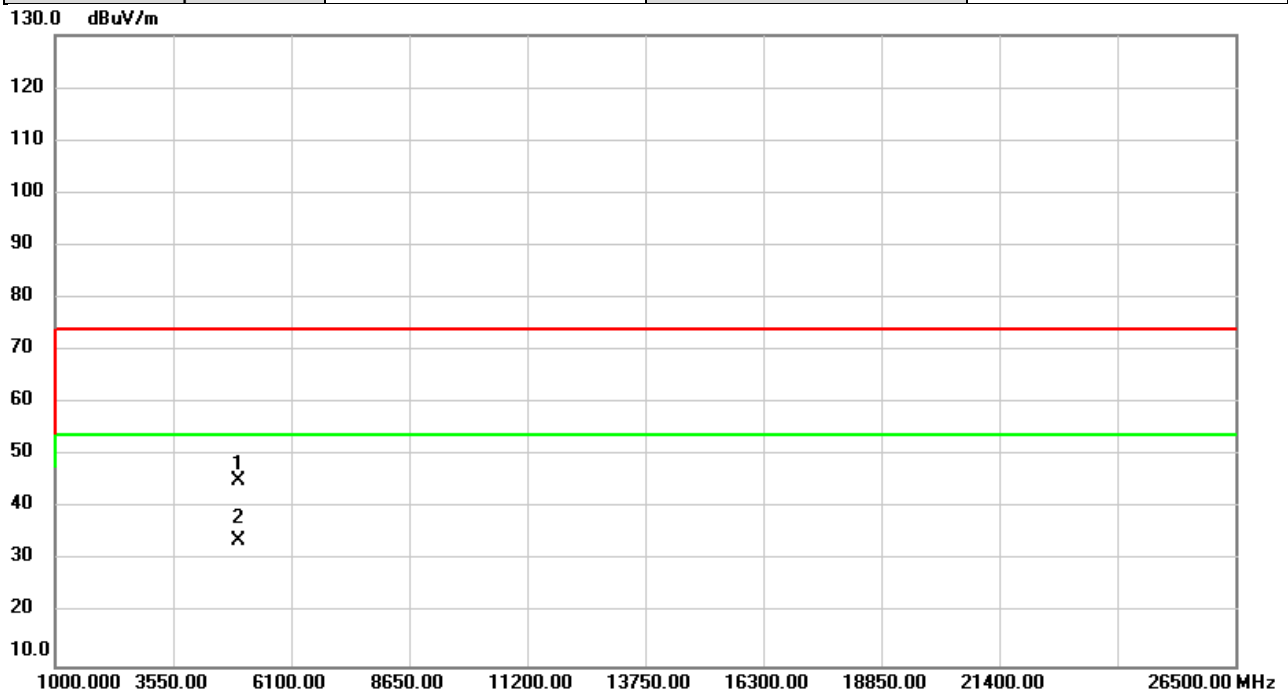


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4960.000     | 45.22                    | 1.00                    | 46.22                      | 74.00           | -27.78     | peak     |         |
| 2   | *   | 4960.000     | 32.91                    | 1.00                    | 33.91                      | 54.00           | -20.09     | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/28  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 25°C        | Hum.         | 51%        |



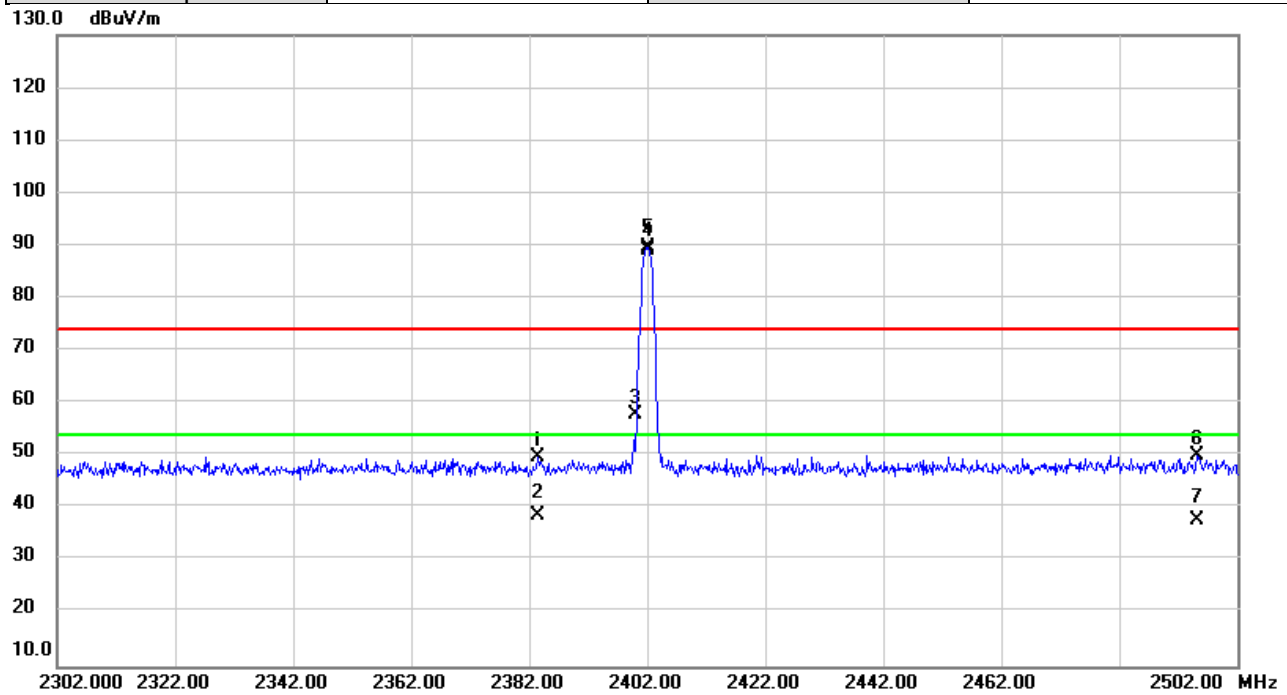
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4960.000     | 44.38                    | 1.00                    | 45.38                      | 74.00           | -28.62     | peak     |         |
| 2   | *   | 4960.000     | 32.92                    | 1.00                    | 33.92                      | 54.00           | -20.08     | AVG      |         |

## REMARKS:

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

For Built-in antenna:

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2402MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |

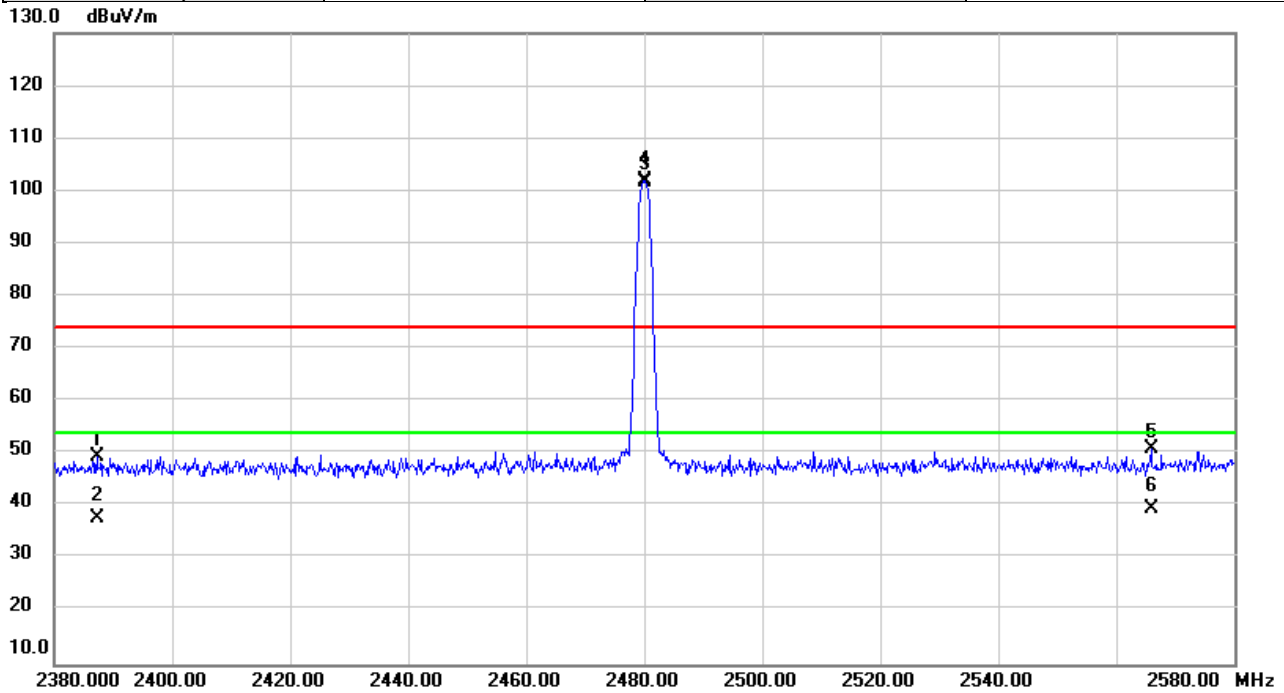


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment  |
| 1   |     | 2383.393 | 55.22         | -5.39          | 49.83        | 74.00  | -24.17 | peak     |          |
| 2   |     | 2383.393 | 44.02         | -5.39          | 38.63        | 54.00  | -15.37 | AVG      |          |
| 3   |     | 2400.000 | 63.18         | -5.37          | 57.81        | 74.00  | -16.19 | peak     | No Limit |
| 4   | X   | 2402.000 | 95.01         | -5.36          | 89.65        | 74.00  | 15.65  | peak     | No Limit |
| 5   | *   | 2402.000 | 94.44         | -5.36          | 89.08        | 54.00  | 35.08  | AVG      | No Limit |
| 6   |     | 2495.233 | 55.16         | -5.20          | 49.96        | 74.00  | -24.04 | peak     |          |
| 7   |     | 2495.233 | 43.05         | -5.20          | 37.85        | 54.00  | -16.15 | AVG      |          |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |

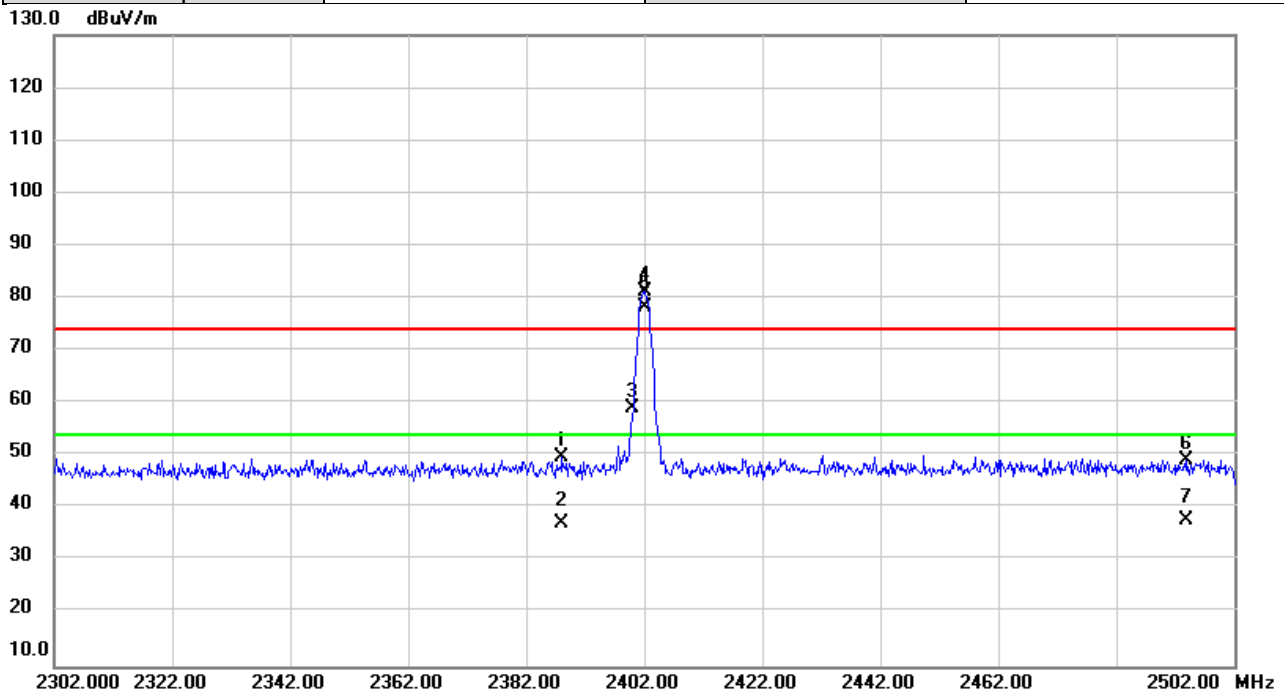


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment  |
| 1   |     | 2387.267 | 54.98         | -5.39          | 49.59        | 74.00  | -24.41 | peak     |          |
| 2   |     | 2387.267 | 43.05         | -5.39          | 37.66        | 54.00  | -16.34 | AVG      |          |
| 3   | X   | 2480.000 | 107.23        | -5.22          | 102.01       | 74.00  | 28.01  | peak     | No Limit |
| 4   | *   | 2480.000 | 106.87        | -5.22          | 101.65       | 54.00  | 47.65  | AVG      | No Limit |
| 5   |     | 2565.880 | 56.04         | -4.97          | 51.07        | 74.00  | -22.93 | peak     |          |
| 6   |     | 2565.880 | 44.60         | -4.97          | 39.63        | 54.00  | -14.37 | AVG      |          |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2402MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |

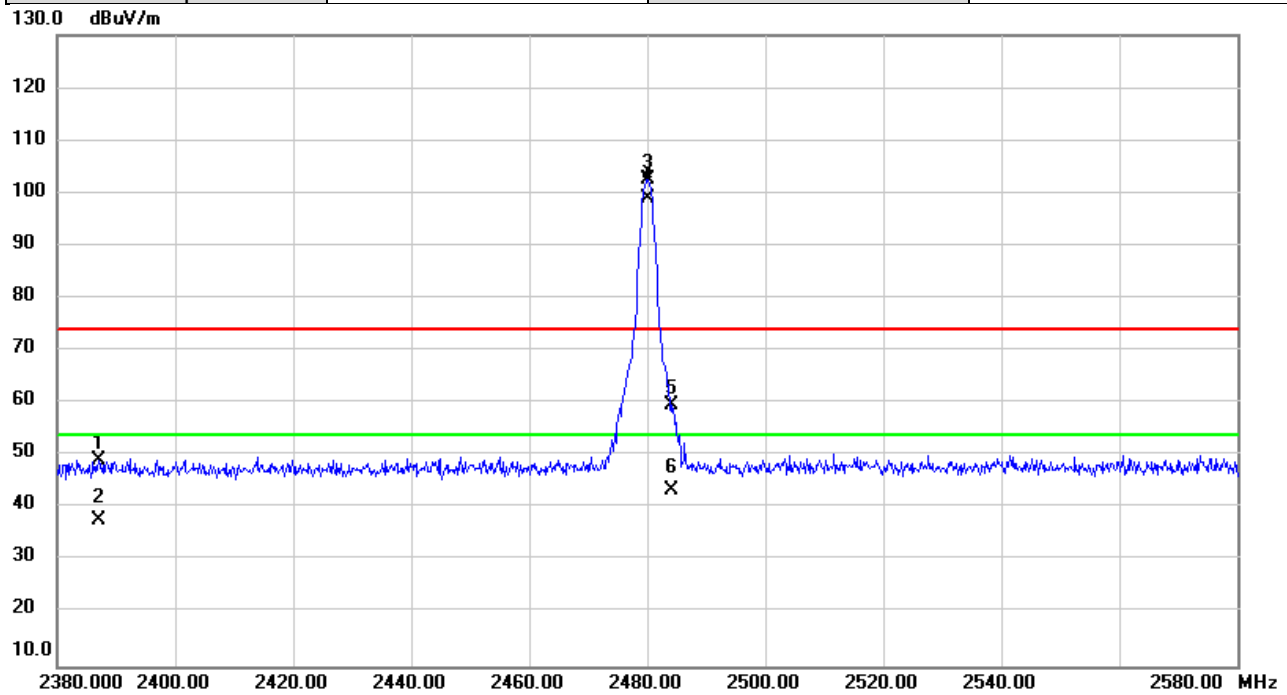


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1   |     | 2388.047     | 55.09                    | -5.39                   | 49.70                      | 74.00           | -24.30     | peak     |          |
| 2   |     | 2388.047     | 42.68                    | -5.39                   | 37.29                      | 54.00           | -16.71     | AVG      |          |
| 3   |     | 2400.000     | 64.49                    | -5.37                   | 59.12                      | 74.00           | -14.88     | peak     | No Limit |
| 4   | X   | 2402.000     | 86.75                    | -5.36                   | 81.39                      | 74.00           | 7.39       | peak     | No Limit |
| 5   | *   | 2402.000     | 83.50                    | -5.36                   | 78.14                      | 54.00           | 24.14      | AVG      | No Limit |
| 6   |     | 2493.933     | 54.43                    | -5.21                   | 49.22                      | 74.00           | -24.78     | peak     |          |
| 7   |     | 2493.933     | 43.08                    | -5.21                   | 37.87                      | 54.00           | -16.13     | AVG      |          |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |

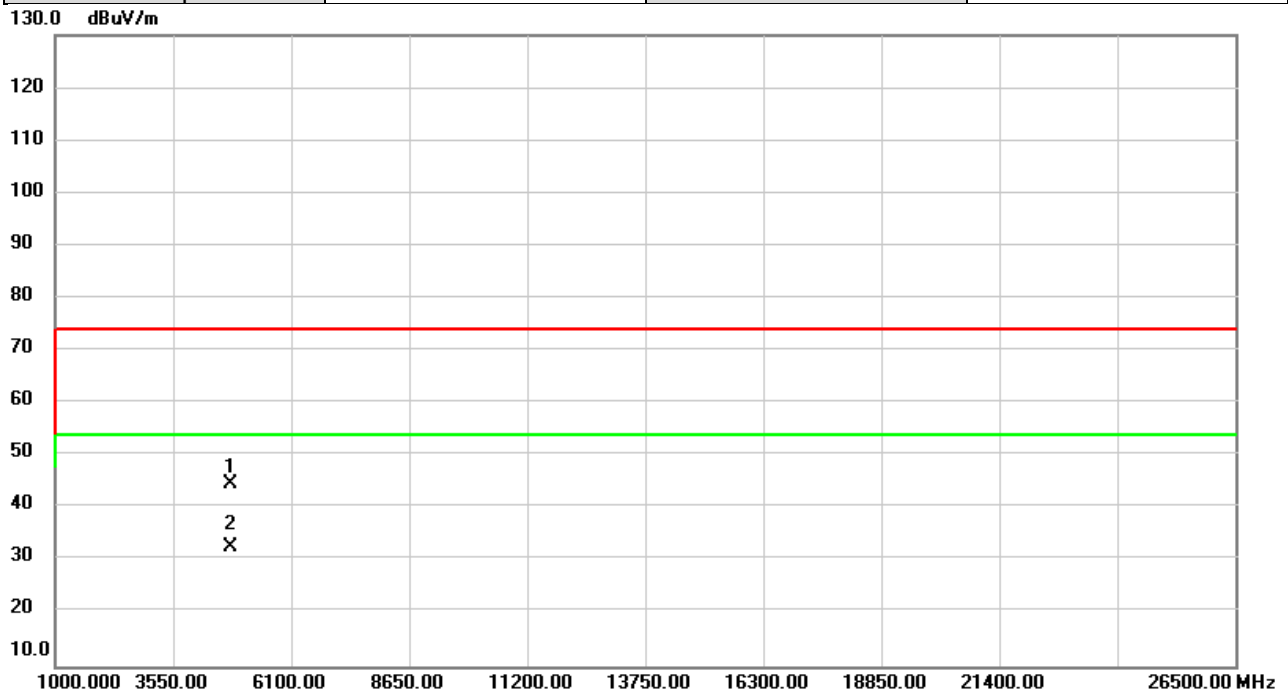


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment  |
| 1   |     | 2387.120 | 54.67         | -5.39          | 49.28        | 74.00  | -24.72 | peak     |          |
| 2   |     | 2387.120 | 42.99         | -5.39          | 37.60        | 54.00  | -16.40 | AVG      |          |
| 3   | X   | 2480.000 | 107.77        | -5.22          | 102.55       | 74.00  | 28.55  | peak     | No Limit |
| 4   | *   | 2480.000 | 104.30        | -5.22          | 99.08        | 54.00  | 45.08  | AVG      | No Limit |
| 5   |     | 2484.213 | 64.92         | -5.23          | 59.69        | 74.00  | -14.31 | peak     |          |
| 6   |     | 2484.213 | 48.82         | -5.23          | 43.59        | 54.00  | -10.41 | AVG      |          |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/26 |
| Test Frequency | 2402MHz     | Polarization | Vertical  |
| Temp           | 24°C        | Hum.         | 58%       |

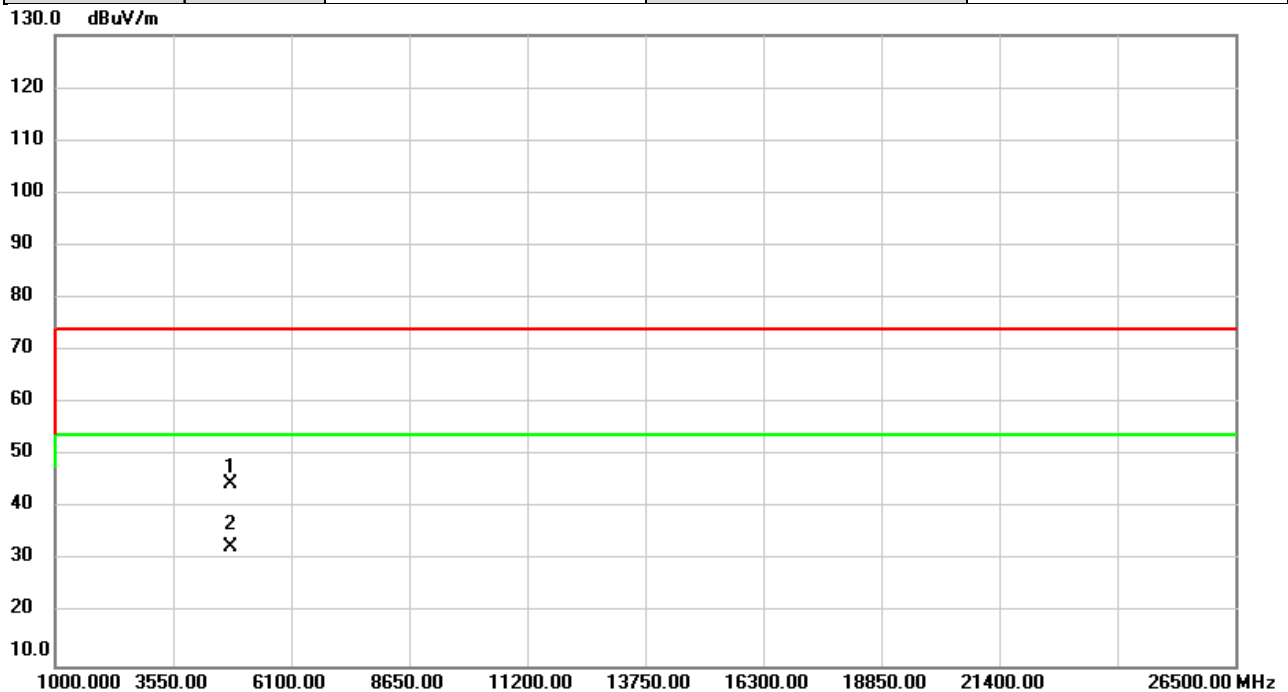


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4804.000     | 44.18                    | 0.53                    | 44.71                      | 74.00           | -29.29     | peak     |         |
| 2   | *   | 4804.000     | 32.08                    | 0.53                    | 32.61                      | 54.00           | -21.39     | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2402MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |

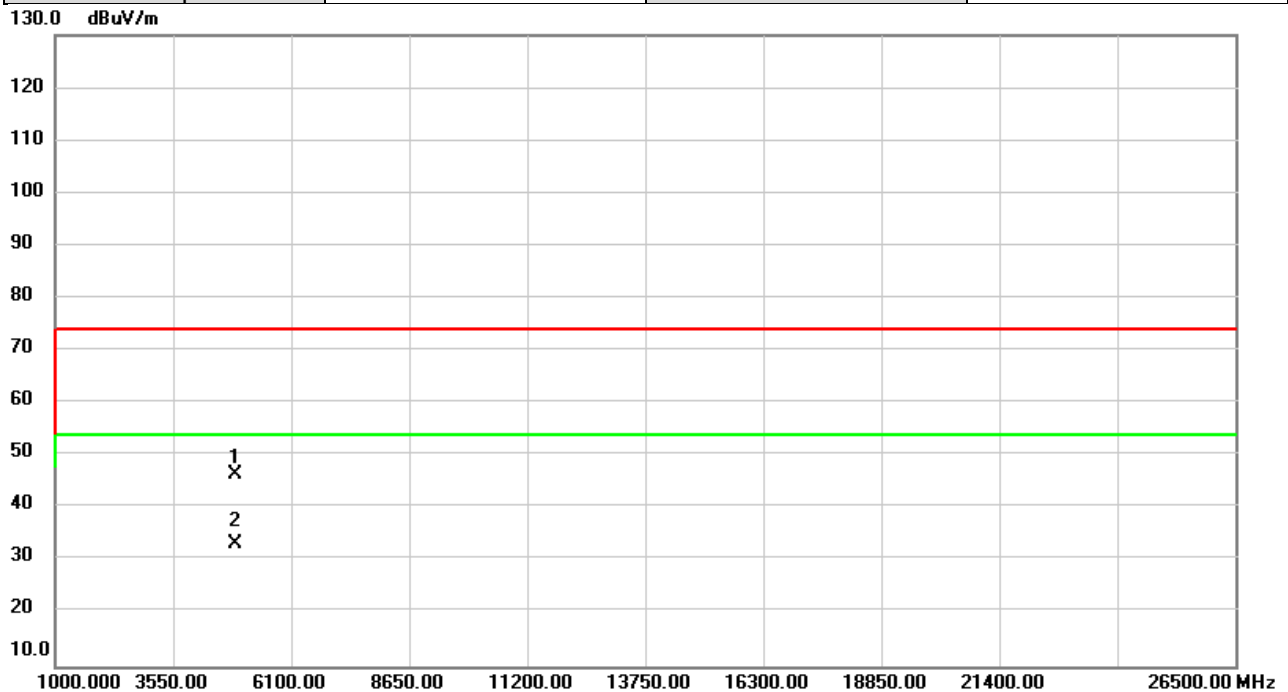


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4804.000 | 44.23         | 0.53           | 44.76        | 74.00  | -29.24 | peak     |         |
| 2   | *   | 4804.000 | 32.16         | 0.53           | 32.69        | 54.00  | -21.31 | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/26 |
| Test Frequency | 2402MHz     | Polarization | Vertical  |
| Temp           | 24°C        | Hum.         | 58%       |

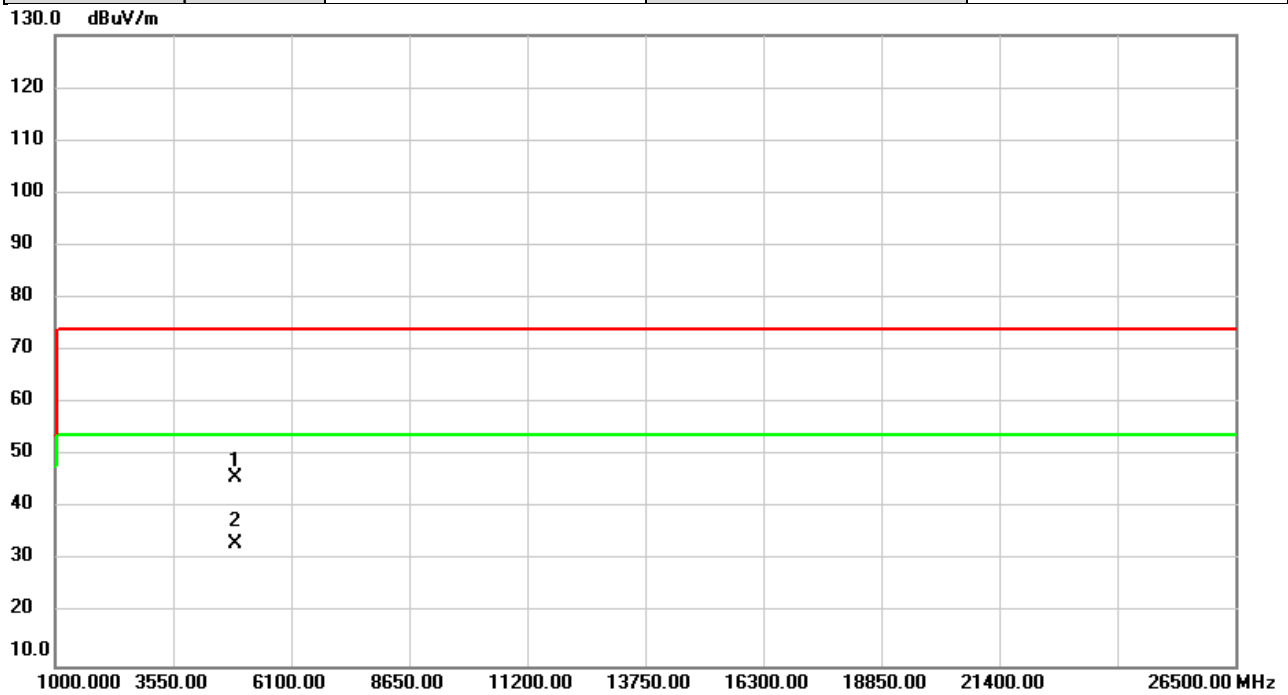


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4882.000     | 45.57                    | 0.76                    | 46.33                      | 74.00           | -27.67     | peak     |         |
| 2   | *   | 4882.000     | 32.51                    | 0.76                    | 33.27                      | 54.00           | -20.73     | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2402MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |

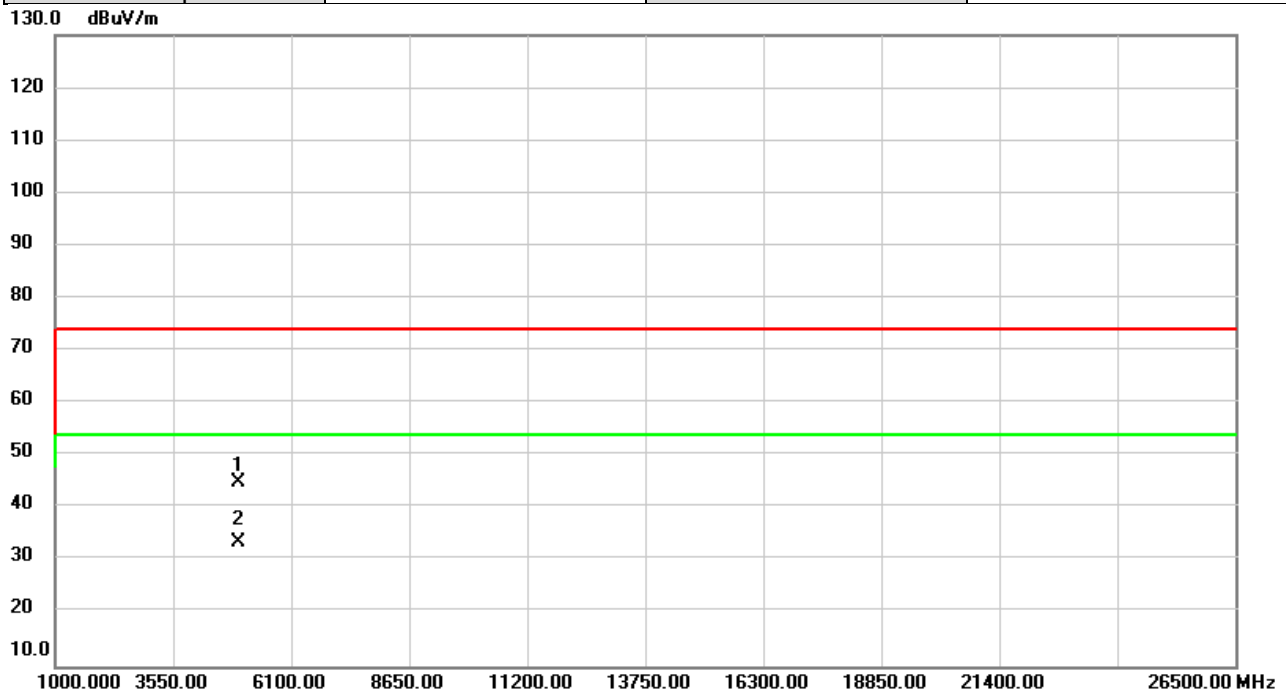


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4882.000     | 45.19                    | 0.76                    | 45.95                      | 74.00           | -28.05     | peak     |         |
| 2   | *   | 4882.000     | 32.56                    | 0.76                    | 33.32                      | 54.00           | -20.68     | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/26 |
| Test Frequency | 2480MHz     | Polarization | Vertical  |
| Temp           | 24°C        | Hum.         | 58%       |

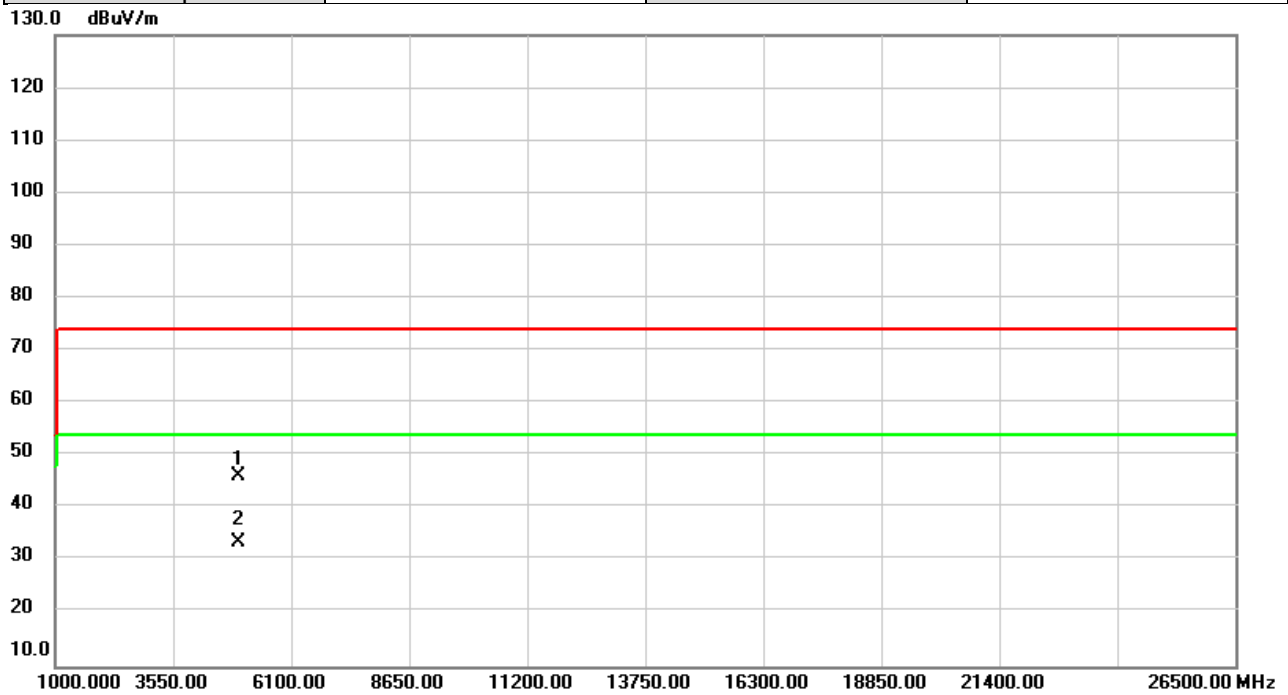


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4960.000     | 43.86                    | 1.00                    | 44.86                      | 74.00           | -29.14     | peak     |         |
| 2   | *   | 4960.000     | 32.62                    | 1.00                    | 33.62                      | 54.00           | -20.38     | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (1 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |

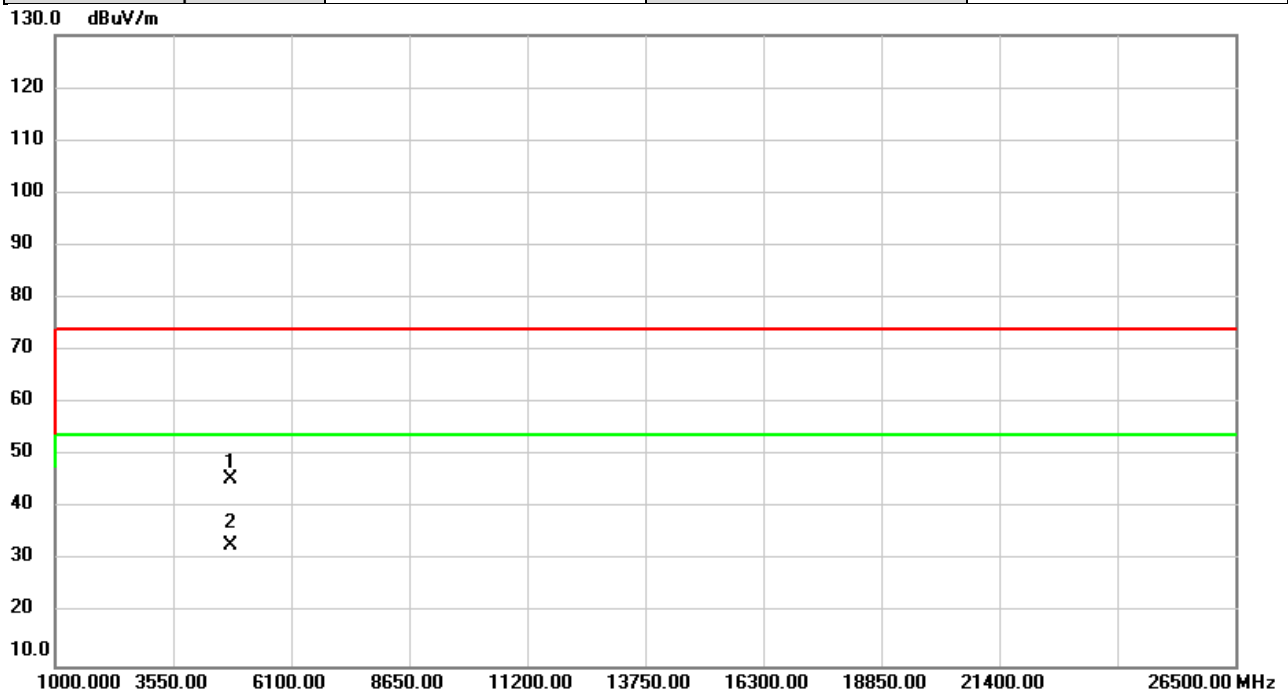


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4960.000     | 45.03                    | 1.00                    | 46.03                      | 74.00           | -27.97     | peak     |         |
| 2   | *   | 4960.000     | 32.65                    | 1.00                    | 33.65                      | 54.00           | -20.35     | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/26 |
| Test Frequency | 2402MHz     | Polarization | Vertical  |
| Temp           | 24°C        | Hum.         | 58%       |

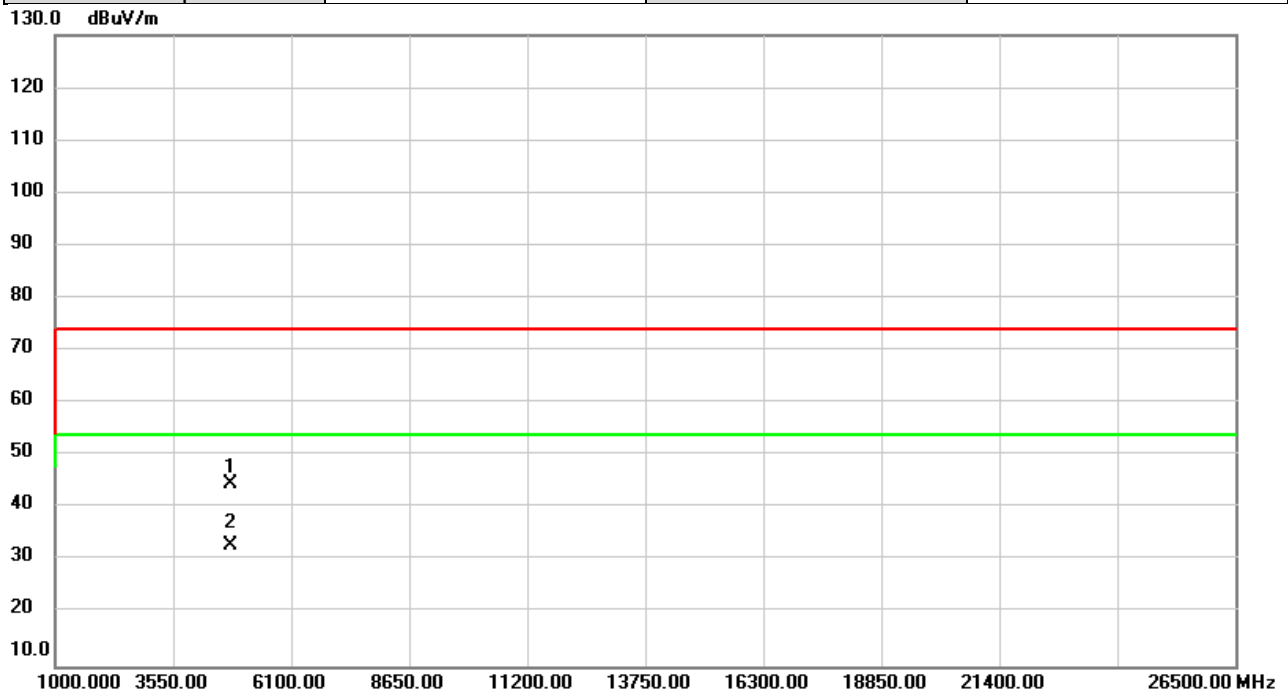


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4804.000     | 44.93                    | 0.53                    | 45.46                      | 74.00           | -28.54     | peak     |         |
| 2   | *   | 4804.000     | 32.35                    | 0.53                    | 32.88                      | 54.00           | -21.12     | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2402MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |

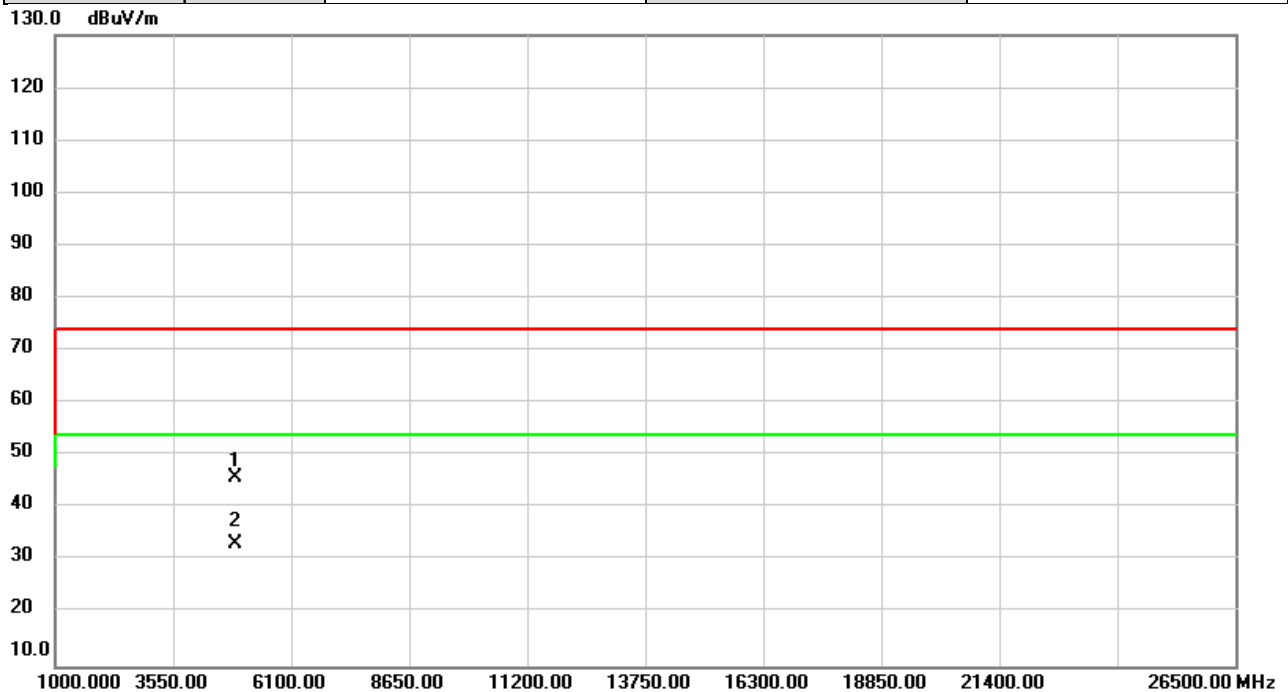


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4804.000 | 44.16         | 0.53           | 44.69        | 74.00  | -29.31 | peak     |         |
| 2   | *   | 4804.000 | 32.42         | 0.53           | 32.95        | 54.00  | -21.05 | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/26 |
| Test Frequency | 2441MHz     | Polarization | Vertical  |
| Temp           | 24°C        | Hum.         | 58%       |

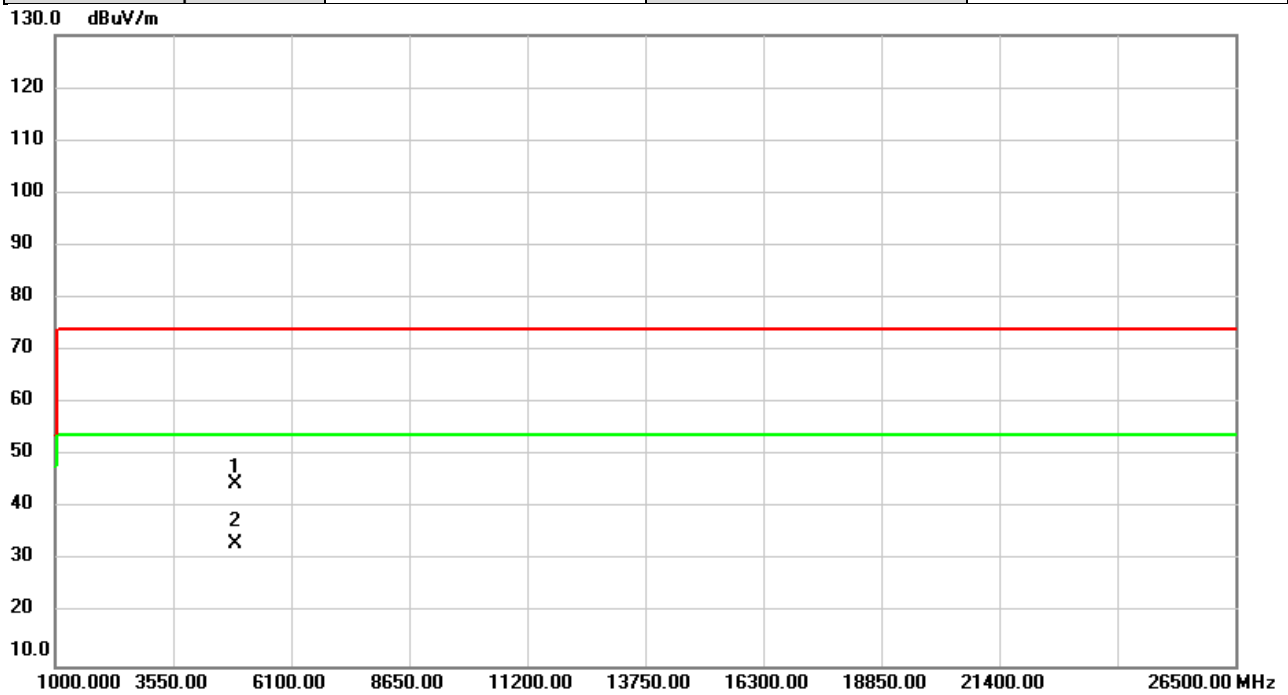


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4882.000 | 45.22         | 0.76           | 45.98        | 74.00  | -28.02 | peak     |         |
| 2   | *   | 4882.000 | 32.60         | 0.76           | 33.36        | 54.00  | -20.64 | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2441MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |

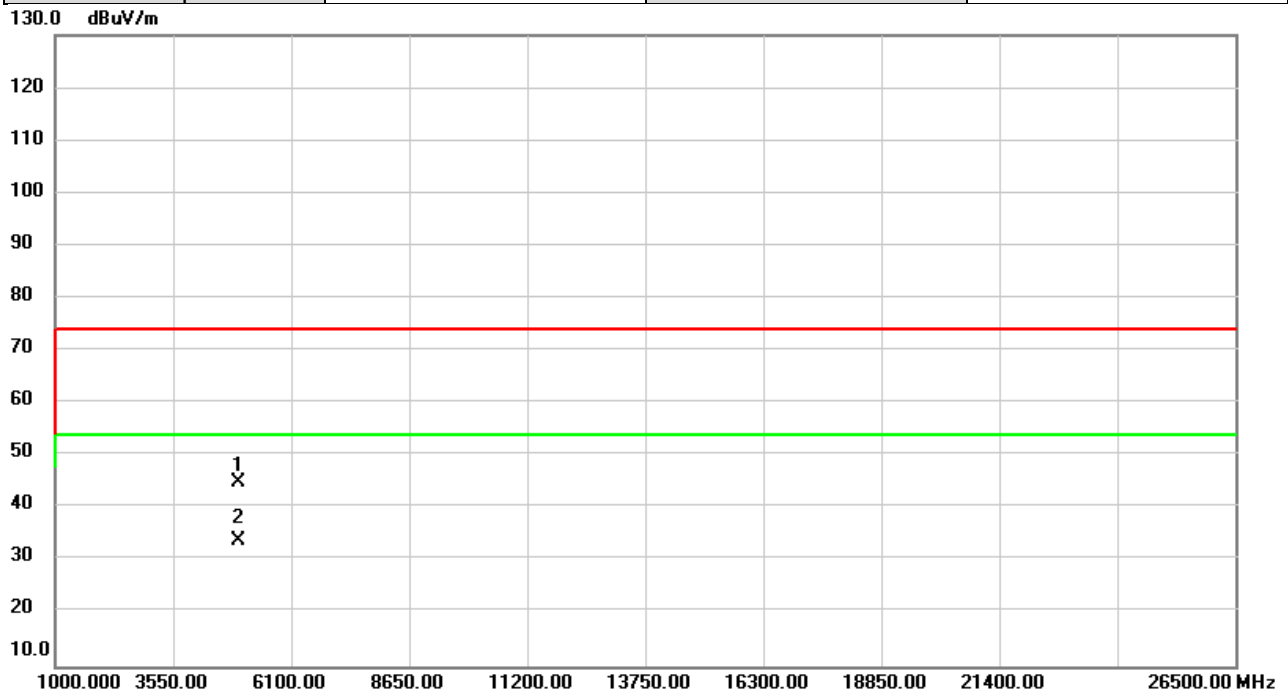


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 4882.000 | 44.01         | 0.76           | 44.77        | 74.00  | -29.23 | peak     |         |
| 2   | *   | 4882.000 | 32.54         | 0.76           | 33.30        | 54.00  | -20.70 | AVG      |         |

## REMARKS:

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

|                |             |              |           |
|----------------|-------------|--------------|-----------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/26 |
| Test Frequency | 2480MHz     | Polarization | Vertical  |
| Temp           | 24°C        | Hum.         | 58%       |

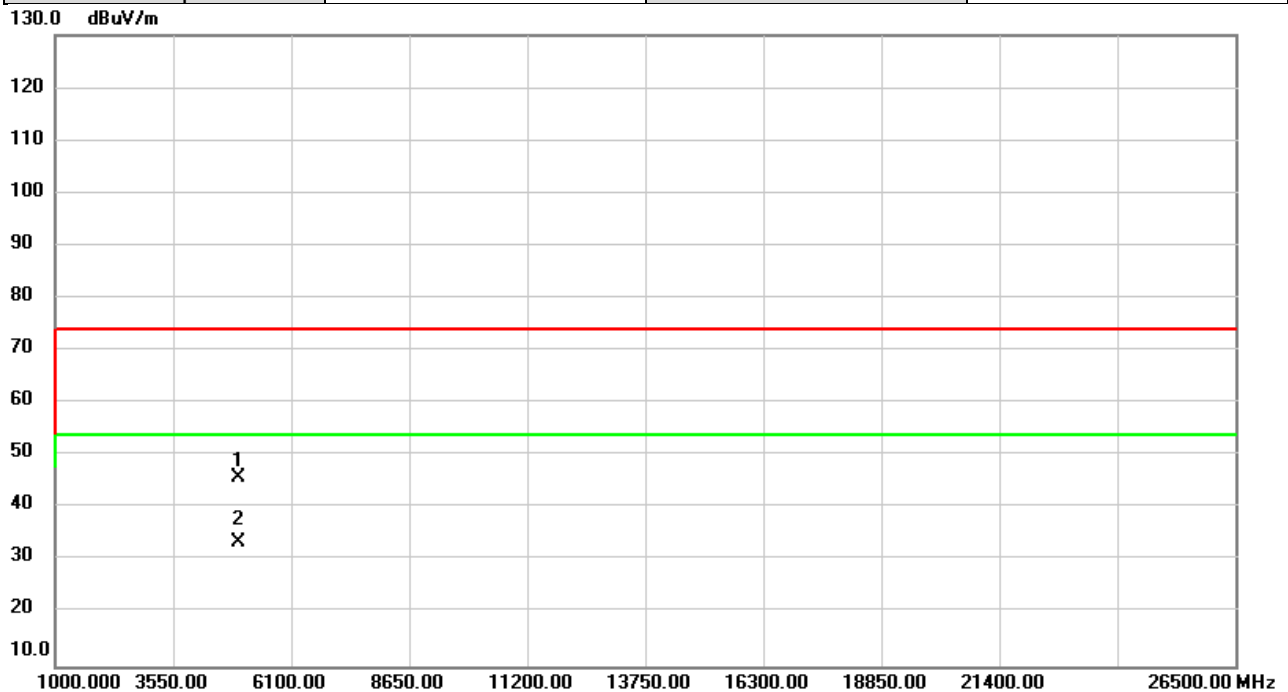


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 4960.000     | 44.04                    | 1.00                    | 45.04                      | 74.00           | -28.96     | peak     |         |
| 2   | *   | 4960.000     | 32.70                    | 1.00                    | 33.70                      | 54.00           | -20.30     | AVG      |         |

## REMARKS:

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

|                |             |              |            |
|----------------|-------------|--------------|------------|
| Test Mode      | BT (3 Mbps) | Test Date    | 2023/6/26  |
| Test Frequency | 2480MHz     | Polarization | Horizontal |
| Temp           | 24°C        | Hum.         | 58%        |



| 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   |     | 4960.000     | 44.89                    | 1.00                    | 45.89                      | 74.00           | -28.11     | peak     |         |
| 2   | *   | 4960.000     | 32.59                    | 1.00                    | 33.59                      | 54.00           | -20.41     | AVG      |         |

## REMARKS:

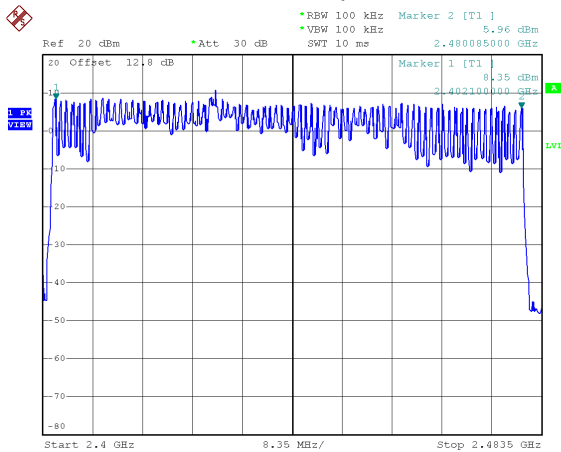
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX D    NUMBER OF HOPPING CHANNEL**

|           |         |
|-----------|---------|
| Test Mode | 1/3Mbps |
|-----------|---------|

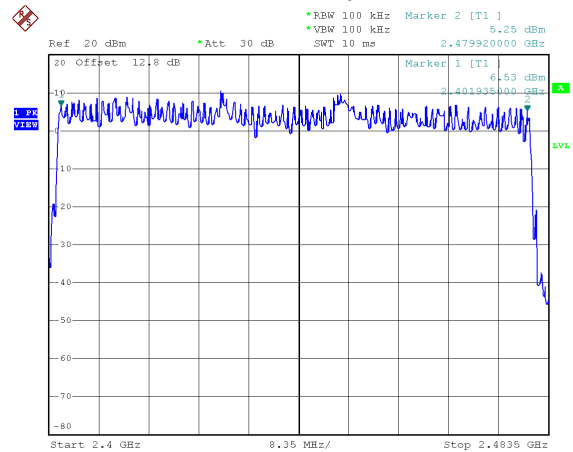
| Test Mode | Number of Hopping Channel | ≥ Limit | Test Result |
|-----------|---------------------------|---------|-------------|
| 1 Mbps    | 79                        | 15      | Pass        |
| 3 Mbps    | 79                        | 15      | Pass        |

1 Mbps



Date: 19.JUN.2023 20:25:21

3 Mbps

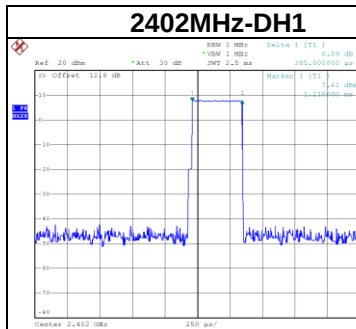


Date: 19.JUN.2023 22:37:36

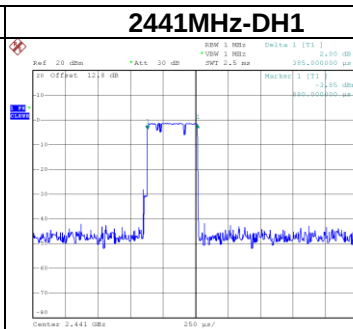
## **APPENDIX E    AVERAGE TIME OF OCCUPANCY**

Test Mode : 1Mbps

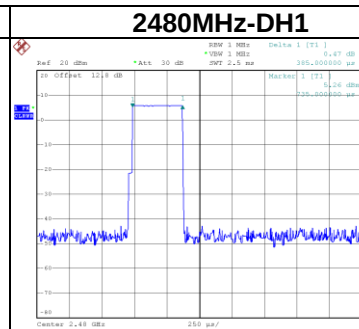
| Data Packet | Frequency (MHz) | Pulse Duration (ms) | Dwell Time (s) | Limits (s) | Test Result |
|-------------|-----------------|---------------------|----------------|------------|-------------|
| DH5         | 2402            | 2.9200              | 0.3115         | 0.4000     | Pass        |
| DH3         | 2402            | 1.6400              | 0.2624         | 0.4000     | Pass        |
| DH1         | 2402            | 0.3850              | 0.1232         | 0.4000     | Pass        |
| DH5         | 2441            | 2.9200              | 0.3115         | 0.4000     | Pass        |
| DH3         | 2441            | 1.6400              | 0.2624         | 0.4000     | Pass        |
| DH1         | 2441            | 0.3850              | 0.1232         | 0.4000     | Pass        |
| DH5         | 2480            | 2.8800              | 0.3072         | 0.4000     | Pass        |
| DH3         | 2480            | 1.6600              | 0.2656         | 0.4000     | Pass        |
| DH1         | 2480            | 0.3850              | 0.1232         | 0.4000     | Pass        |



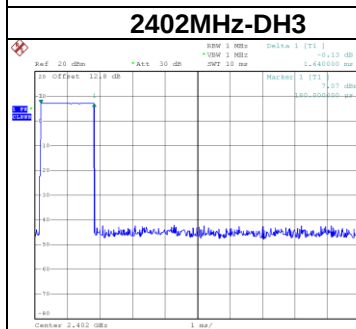
Date: 19 JUN 2023 19:51:19



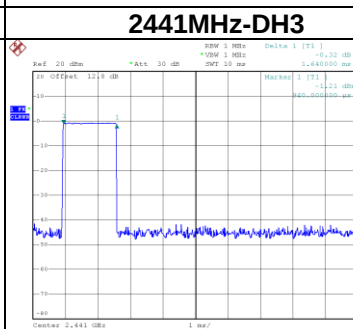
Date: 19 JUN 2023 19:51:23



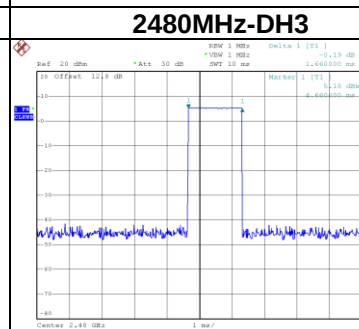
Date: 19 JUN 2023 19:51:27



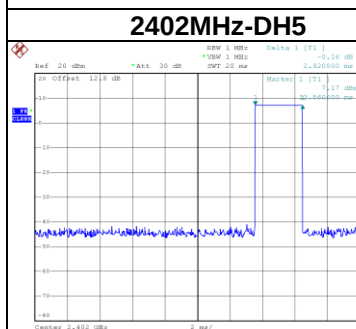
Date: 19 JUN 2023 20:28:55



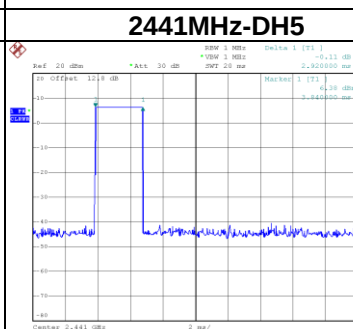
Date: 19 JUN 2023 20:40:17



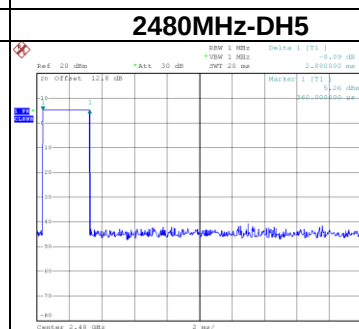
Date: 19 JUN 2023 20:31:35



Date: 19 JUN 2023 20:43:59



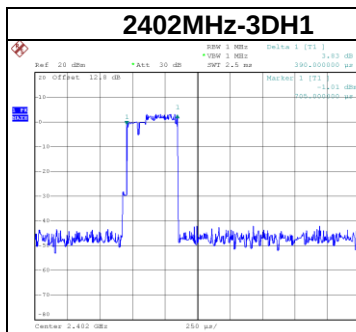
Date: 19 JUN 2023 20:41:36



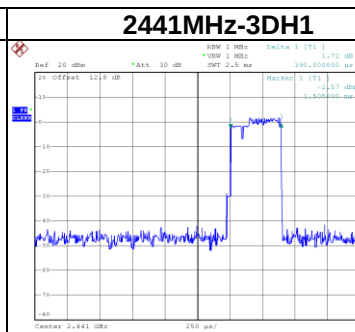
Date: 19 JUN 2023 20:41:44

Test Mode : 3Mbps

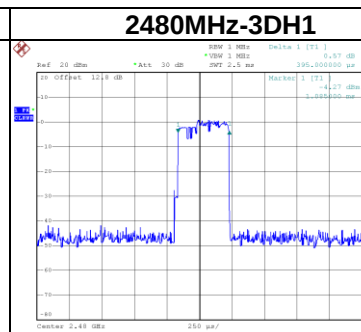
| Data Packet | Frequency | Pulse Duration(ms) | Dwell Time(s) | Limits(s) | Test Result |
|-------------|-----------|--------------------|---------------|-----------|-------------|
| 3DH5        | 2402      | 2.9200             | 0.3115        | 0.4000    | Pass        |
| 3DH3        | 2402      | 1.6600             | 0.2656        | 0.4000    | Pass        |
| 3DH1        | 2402      | 0.3900             | 0.1248        | 0.4000    | Pass        |
| 3DH5        | 2441      | 2.8800             | 0.3072        | 0.4000    | Pass        |
| 3DH3        | 2441      | 1.6400             | 0.2624        | 0.4000    | Pass        |
| 3DH1        | 2441      | 0.3900             | 0.1248        | 0.4000    | Pass        |
| 3DH5        | 2480      | 2.8800             | 0.3072        | 0.4000    | Pass        |
| 3DH3        | 2480      | 1.6400             | 0.2624        | 0.4000    | Pass        |
| 3DH1        | 2480      | 0.3950             | 0.1264        | 0.4000    | Pass        |



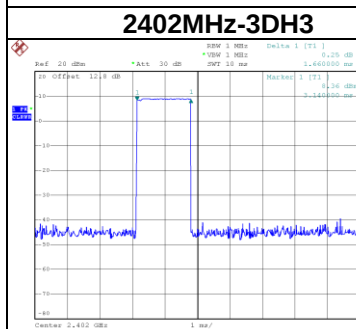
Date: 19\_JUN,2023 22:32:06



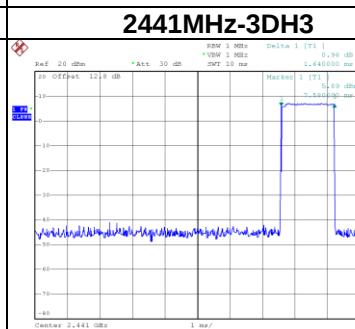
Date: 19\_JUN,2023 22:32:10



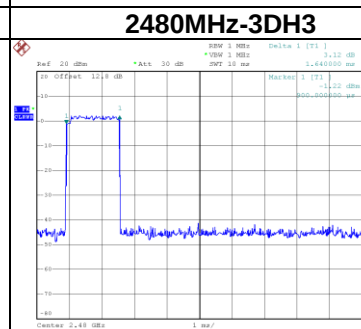
Date: 19\_JUN,2023 22:32:13



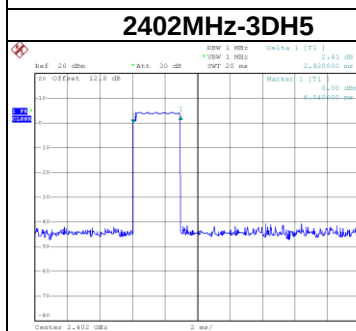
Date: 20\_JUN,2023 14:55:42



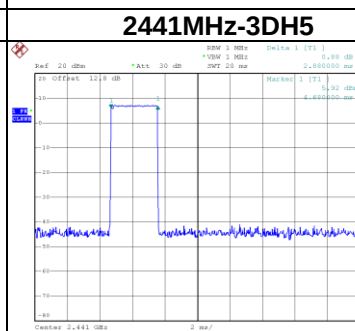
Date: 20\_JUN,2023 14:55:47



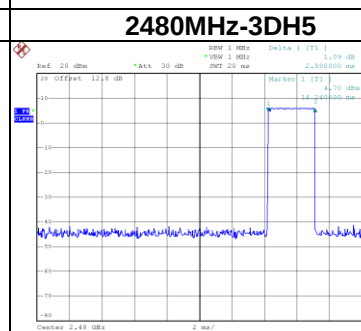
Date: 20\_JUN,2023 14:55:18



Date: 20\_JUN,2023 15:04:09



Date: 20\_JUN,2023 15:04:46

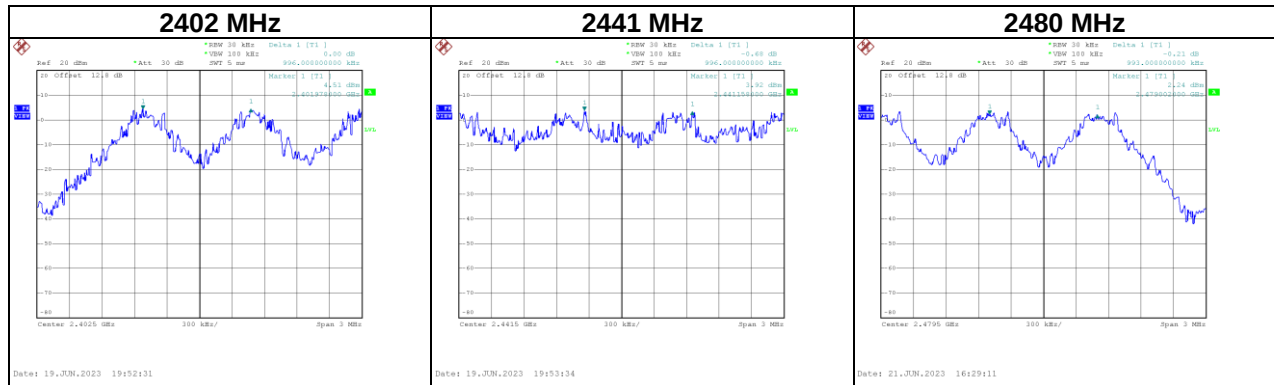


Date: 20\_JUN,2023 15:04:22

**APPENDIX F    HOPPING CHANNEL SEPARATION MEASUREMENT**

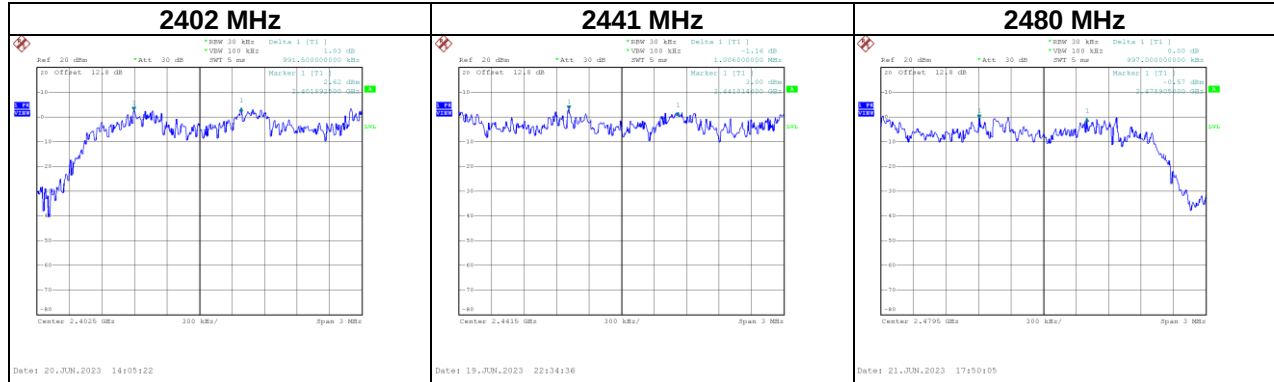
|             |                   |
|-------------|-------------------|
| Test Mode : | Hopping on _1Mbps |
|-------------|-------------------|

| Frequency (MHz) | Channel Separation (MHz) | 2/3 of 20dB Bandwidth (MHz) | Test Result |
|-----------------|--------------------------|-----------------------------|-------------|
| 2402            | 0.996                    | 0.701                       | Pass        |
| 2441            | 0.996                    | 0.667                       | Pass        |
| 2480            | 0.993                    | 0.707                       | Pass        |



Test Mode : Hopping on \_3Mbps

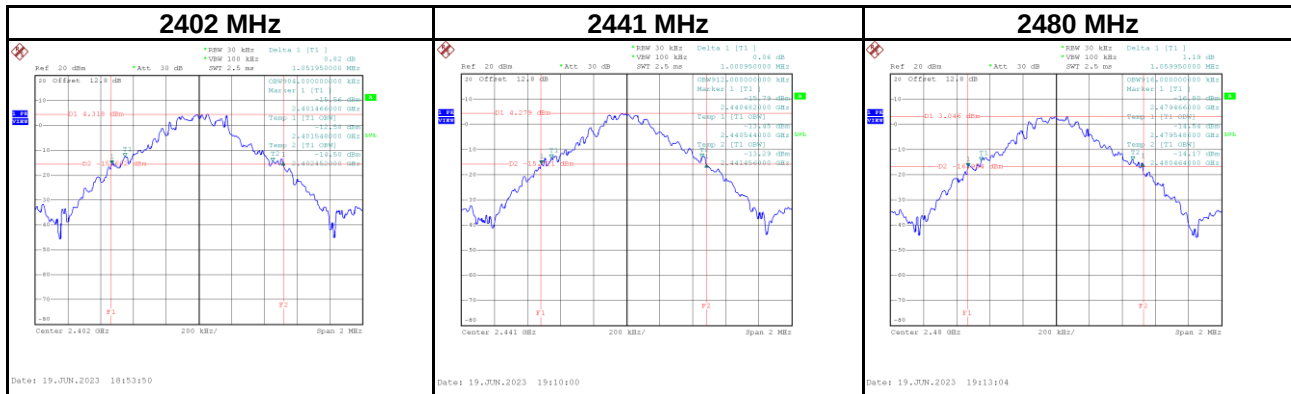
| Frequency (MHz) | Channel Separation (MHz) | 2/3 of 20dB Bandwidth (MHz) | Test Result |
|-----------------|--------------------------|-----------------------------|-------------|
| 2402            | 0.992                    | 0.876                       | Pass        |
| 2441            | 1.006                    | 0.885                       | Pass        |
| 2480            | 0.997                    | 0.897                       | Pass        |



## **APPENDIX G    BANDWIDTH**

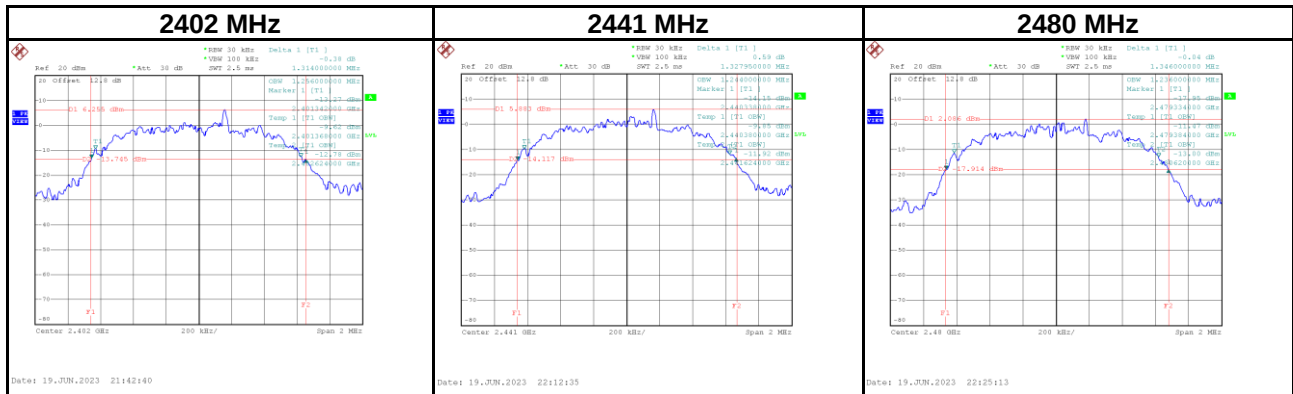
|             |       |
|-------------|-------|
| Test Mode : | 1Mbps |
|-------------|-------|

| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Test Result |
|-----------------|----------------------|-----------------------|-------------|
| 2402            | 1.052                | 0.904                 | Pass        |
| 2441            | 1.001                | 0.912                 | Pass        |
| 2480            | 1.060                | 0.916                 | Pass        |



|             |       |
|-------------|-------|
| Test Mode : | 3Mbps |
|-------------|-------|

| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Test Result |
|-----------------|----------------------|-----------------------|-------------|
| 2402            | 1.314                | 1.256                 | Pass        |
| 2441            | 1.328                | 1.244                 | Pass        |
| 2480            | 1.346                | 1.236                 | Pass        |



## **APPENDIX H    OUTPUT POWER**

|             |       |             |           |
|-------------|-------|-------------|-----------|
| Test Mode : | 1Mbps | Tested Date | 2023/6/20 |
|-------------|-------|-------------|-----------|

| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Test Result |
|-----------------|-----------------------|---------------------|------------------|----------------|-------------|
| 2402            | 6.53                  | 0.0045              | 21.00            | 0.1259         | Pass        |
| 2441            | 5.78                  | 0.0038              | 21.00            | 0.1259         | Pass        |
| 2480            | 4.74                  | 0.0030              | 21.00            | 0.1259         | Pass        |

|             |       |             |           |
|-------------|-------|-------------|-----------|
| Test Mode : | 2Mbps | Tested Date | 2023/6/20 |
|-------------|-------|-------------|-----------|

| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Test Result |
|-----------------|-----------------------|---------------------|------------------|----------------|-------------|
| 2402            | 7.67                  | 0.0058              | 21.00            | 0.1259         | Pass        |
| 2441            | 6.78                  | 0.0048              | 21.00            | 0.1259         | Pass        |
| 2480            | 5.88                  | 0.0039              | 21.00            | 0.1259         | Pass        |

|             |       |             |           |
|-------------|-------|-------------|-----------|
| Test Mode : | 3Mbps | Tested Date | 2023/6/20 |
|-------------|-------|-------------|-----------|

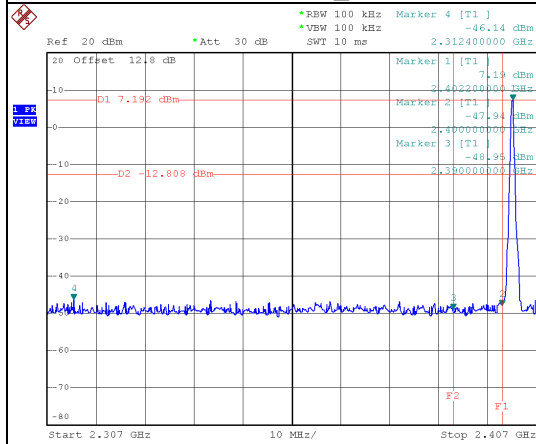
| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Test Result |
|-----------------|-----------------------|---------------------|------------------|----------------|-------------|
| 2402            | 7.74                  | 0.0059              | 21.00            | 0.1259         | Pass        |
| 2441            | 6.97                  | 0.0050              | 21.00            | 0.1259         | Pass        |
| 2480            | 6.00                  | 0.0040              | 21.00            | 0.1259         | Pass        |

## **APPENDIX I     ANTENNA CONDUCTED SPURIOUS EMISSION**

Test Mode

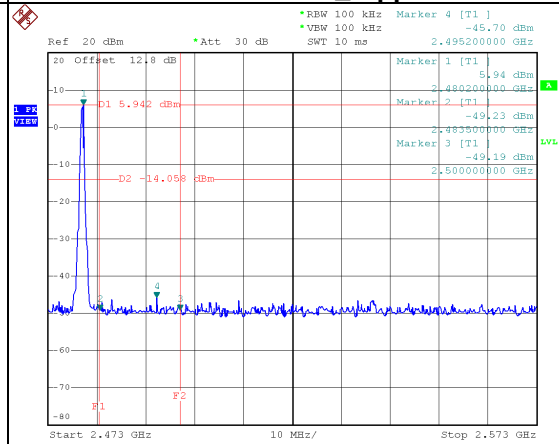
1Mbps

## 2402 MHz\_ Lower



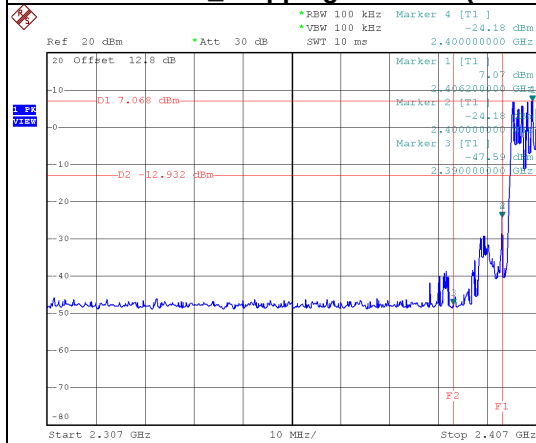
Date: 19.JUN.2023 18:53:10

## 2480 MHz\_ Upper



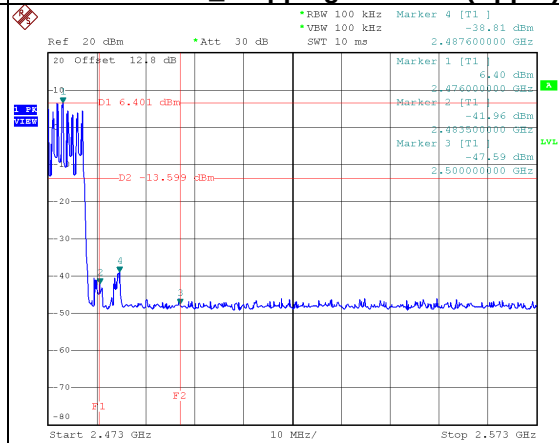
Date: 19.JUN.2023 19:12:20

## 2402 MHz\_ Hopping on mode (Lower)



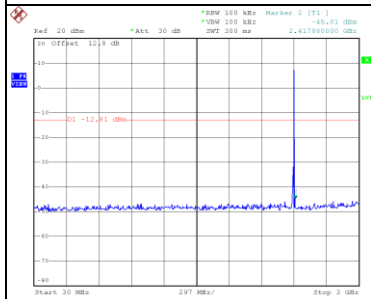
Date: 19.JUN.2023 19:57:10

## 2480 MHz\_ Hopping on mode (Upper)

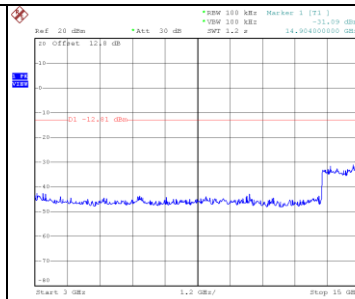


Date: 19.JUN.2023 19:57:44

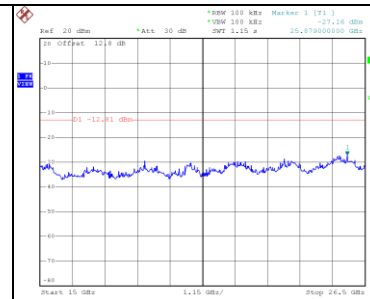
## 2402 MHz – 10th Harmonics



Date: 19 JUN 2023 18:54:03

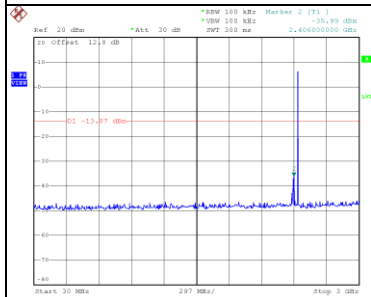


Date: 19 JUN 2023 18:54:10

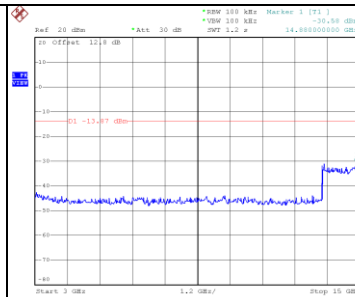


Date: 19 JUN 2023 18:54:16

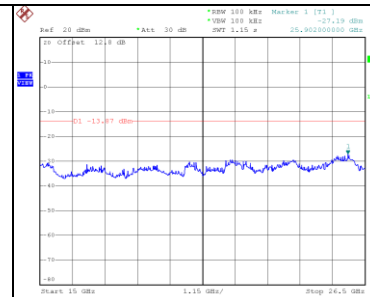
## 2441 MHz – 10th Harmonics



Date: 19 JUN 2023 19:08:13

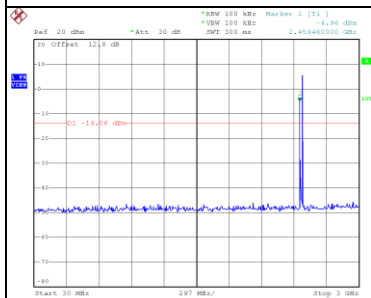


Date: 19 JUN 2023 19:08:20

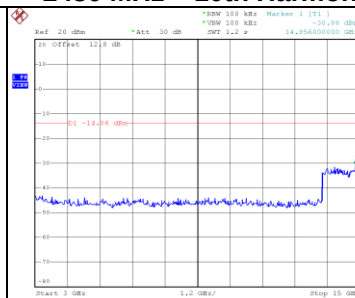


Date: 19 JUN 2023 19:08:27

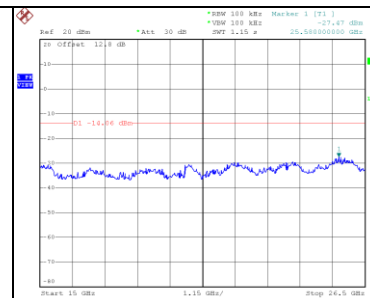
## 2480 MHz – 10th Harmonics



Date: 19 JUN 2023 19:13:17



Date: 19 JUN 2023 19:13:24

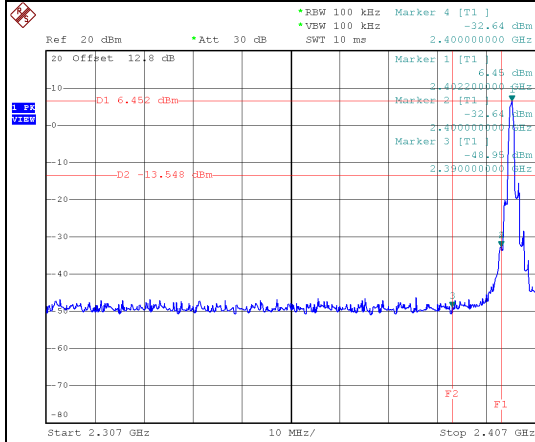


Date: 19 JUN 2023 19:13:31

Test Mode

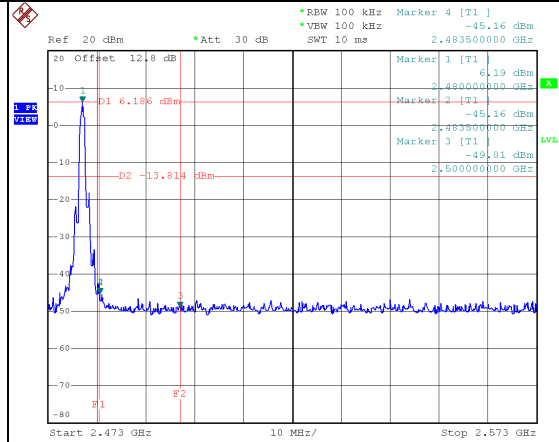
3Mbps

## 2402 MHz\_ Lower



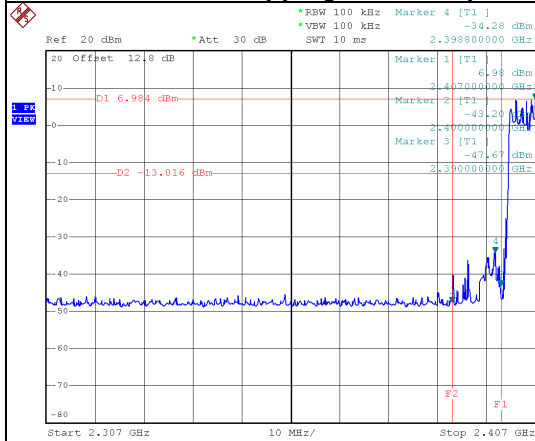
Date: 19.JUN.2023 21:42:12

## 2480 MHz\_ Upper



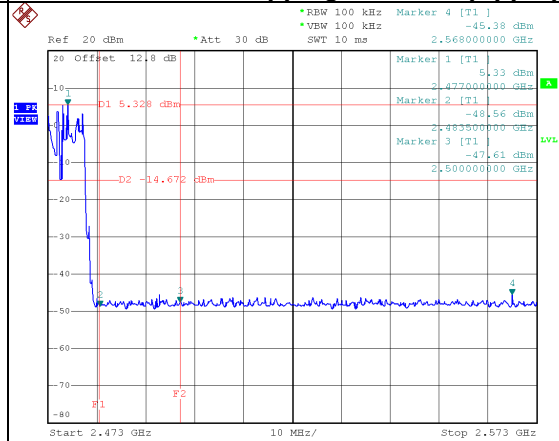
Date: 19.JUN.2023 22:24:40

## 2402 MHz\_ Hopping on mode (Lower)



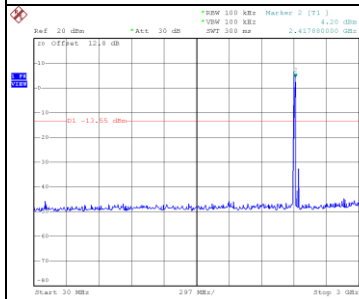
Date: 20.JUN.2023 14:10:56

## 2480 MHz\_ Hopping on mode (Upper)

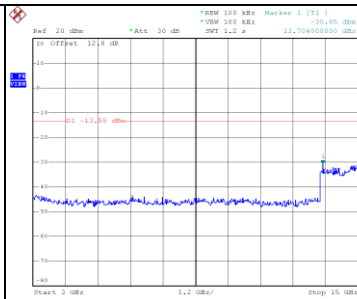


Date: 20.JUN.2023 14:11:30

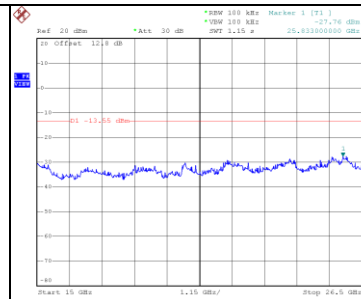
## 2402 MHz – 10 Harmonics



Date: 19 JUN 2023 21:42:53

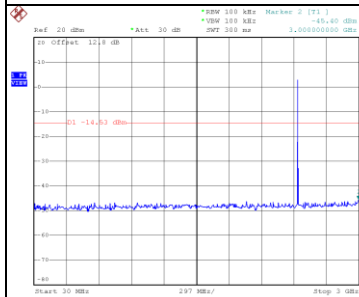


Date: 19 JUN 2023 21:43:00

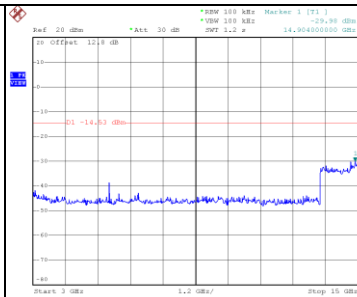


Date: 19 JUN 2023 21:43:07

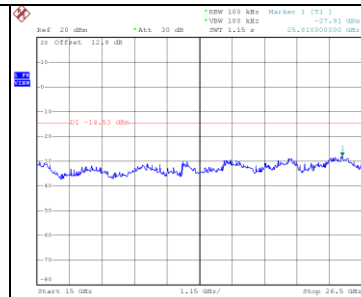
## 2441 MHz – 10 Harmonics



Date: 19 JUN 2023 22:06:13

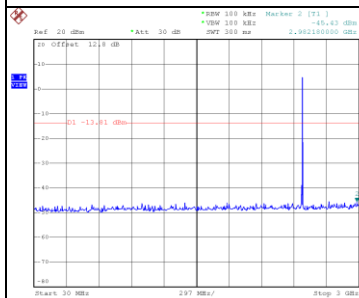


Date: 19 JUN 2023 22:06:20

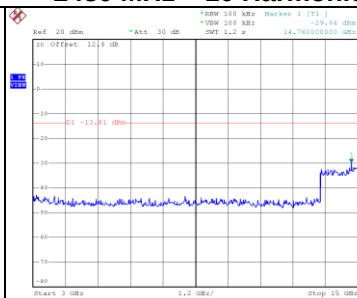


Date: 19 JUN 2023 22:06:27

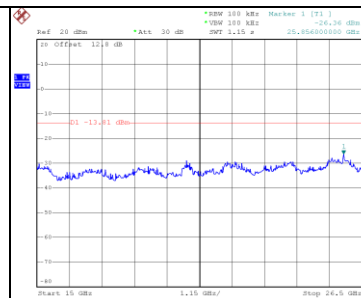
## 2480 MHz – 10 Harmonics



Date: 19 JUN 2023 22:28:22



Date: 19 JUN 2023 22:28:29



Date: 19 JUN 2023 22:28:36

End of Test Report