

# FCC Radio Test Report

**FCC ID: GDDMXU-270**

**Report No.** : BTL-FCCP-2-2207T123  
**Equipment** : CHERRY KW X ULP Keyboard  
**Model Name** : MXU-270  
**Brand Name** : CHERRY  
**Applicant** : Cherry Europe GmbH  
**Address** : Cherryst. Auerbach\_OPf. Germany 91275

**Radio Function** : Short Range Devices

**FCC Rule Part(s)** : FCC CFR Title 47, Part 15, Subpart C  
**Measurement** : ANSI C63.10-2013  
**Procedure(s)** :

**Date of Receipt** : 2022/8/2  
**Date of Test** : 2022/8/2 ~ 2023/1/17  
**Issued Date** : 2023/3/24

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

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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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**BTL's** laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

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-2-2207T123 | R00     | Original Report.                                | 2022/9/14   | Invalid |
| BTL-FCCP-2-2207T123 | R01     | Revised report to address TAF Audit's comments. | 2023/3/24   | 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>15.249(a)(d) | Radiated Emissions                | APPENDIX B<br>APPENDIX C | Pass      | -----  |
| 15.215(c)                        | Bandwidth                         | APPENDIX D               | 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 facilities used to collect the test data in this report:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

☒ C05      ☐ CB08      ☐ CB11      ☐ CB15      ☐ CB16  
☒ SR05

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 674415 and 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 ~ 30MHz             | 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) |
|-----------|--------|
| Bandwidth | 0.5334 |

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 | 21 °C, 51 %           | AC 120V      | Jay Tien  |
| Radiated emissions below 1 GHz    | 23 °C, 59 %           | DC 5V        | Mark Wang |
| Radiated emissions above 1 GHz    | 28 °C, 62 %           | DC 5V        | Mark Wang |
| Bandwidth                         | 23.9 °C, 56 %         | DC 5V        | Paul Shen |

## 1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

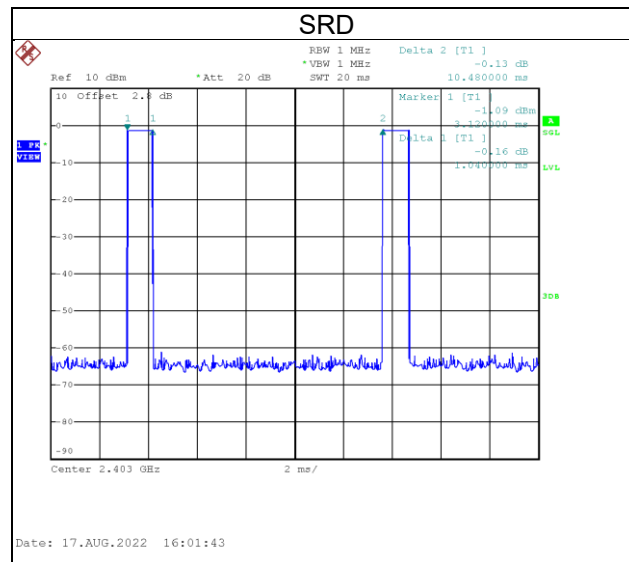
| Test Software | MXU-270 V0.1 |          |          |           |
|---------------|--------------|----------|----------|-----------|
| Frequency     | 2403 MHz     | 2441 MHz | 2480 MHz | Data Rate |
| SRD           | DEF          | DEF      | DEF      | 2 Mbps    |

## 1.5 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 |
|--------|---------|--------------|------------------|----------------------|----------------|
| Mode   | ON (ms) | Numbers (ON) | On Time (B) (ms) | Period (ON+OFF) (ms) | Duty Cycle (%) |
| SRD    | 1.040   | 1            | 1.040            | 10.480               | 9.92%          |



## 2 GENERAL INFORMATION

### 2.1 DESCRIPTION OF EUT

|                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| Equipment             | CHERRY KW X ULP Keyboard                                                        |
| Model Name            | MXU-270                                                                         |
| Brand Name            | CHERRY                                                                          |
| Model Difference      | N/A                                                                             |
| Power Source          | (1) DC voltage supplied from USB Port.<br>(2) Battery supplied.                 |
| Power Rating          | (1) DC 5V; max. 500 mA<br>(2) 2800mAh 3.7V 10.36Wh; Charge limited Voltage 4.2V |
| Products Covered      | 1* RF module: NORDIC / nRF52833                                                 |
| Frequency Range       | 2400 MHz ~ 2483.5 MHz                                                           |
| Operation Frequency   | 2403 MHz ~ 2480 MHz                                                             |
| Modulation Technology | GFSK                                                                            |
| Transfer Rate         | 2 Mbps                                                                          |
| Field Strength        | 93.06 dBuV/m                                                                    |
| Test Model            | MXU-270                                                                         |
| 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) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 01      | 2403            | 27      | 2429            | 53      | 2455            |
| 02      | 2404            | 28      | 2430            | 54      | 2456            |
| 03      | 2405            | 29      | 2431            | 55      | 2457            |
| 04      | 2406            | 30      | 2432            | 56      | 2458            |
| 05      | 2407            | 31      | 2433            | 57      | 2459            |
| 06      | 2408            | 32      | 2434            | 58      | 2460            |
| 07      | 2409            | 33      | 2435            | 59      | 2461            |
| 08      | 2410            | 34      | 2436            | 60      | 2462            |
| 09      | 2411            | 35      | 2437            | 61      | 2463            |
| 10      | 2412            | 36      | 2438            | 62      | 2464            |
| 11      | 2413            | 37      | 2439            | 63      | 2465            |
| 12      | 2414            | 38      | 2440            | 64      | 2466            |
| 13      | 2415            | 39      | 2441            | 65      | 2467            |
| 14      | 2416            | 40      | 2442            | 66      | 2468            |
| 15      | 2417            | 41      | 2443            | 67      | 2469            |
| 16      | 2418            | 42      | 2444            | 68      | 2470            |
| 17      | 2419            | 43      | 2445            | 69      | 2471            |
| 18      | 2420            | 44      | 2446            | 70      | 2472            |
| 19      | 2421            | 45      | 2447            | 71      | 2473            |
| 20      | 2422            | 46      | 2448            | 72      | 2474            |
| 21      | 2423            | 47      | 2449            | 73      | 2475            |
| 22      | 2424            | 48      | 2450            | 74      | 2476            |
| 23      | 2425            | 49      | 2451            | 75      | 2477            |
| 24      | 2426            | 50      | 2452            | 76      | 2478            |
| 25      | 2427            | 51      | 2453            | 77      | 2479            |
| 26      | 2428            | 52      | 2454            | 78      | 2480            |

(3) Table for Filed Antenna:

| Ant. | Brand                                                                             | Model  | Antenna Type | Connector | Gain (dBi) |
|------|-----------------------------------------------------------------------------------|--------|--------------|-----------|------------|
| 1    |  | AA055C | Chip         | N/A       | -1.7       |

- (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<br>(below 1GHz) | SRD         | 78       | -           |
| Transmitter Radiated Emissions<br>(above 1GHz) | SRD         | 01/39/78 | Fundamental |
|                                                | SRD         | 01/39/78 | Harmonic    |
| Bandwidth                                      | SRD         | 01/39/78 | -           |

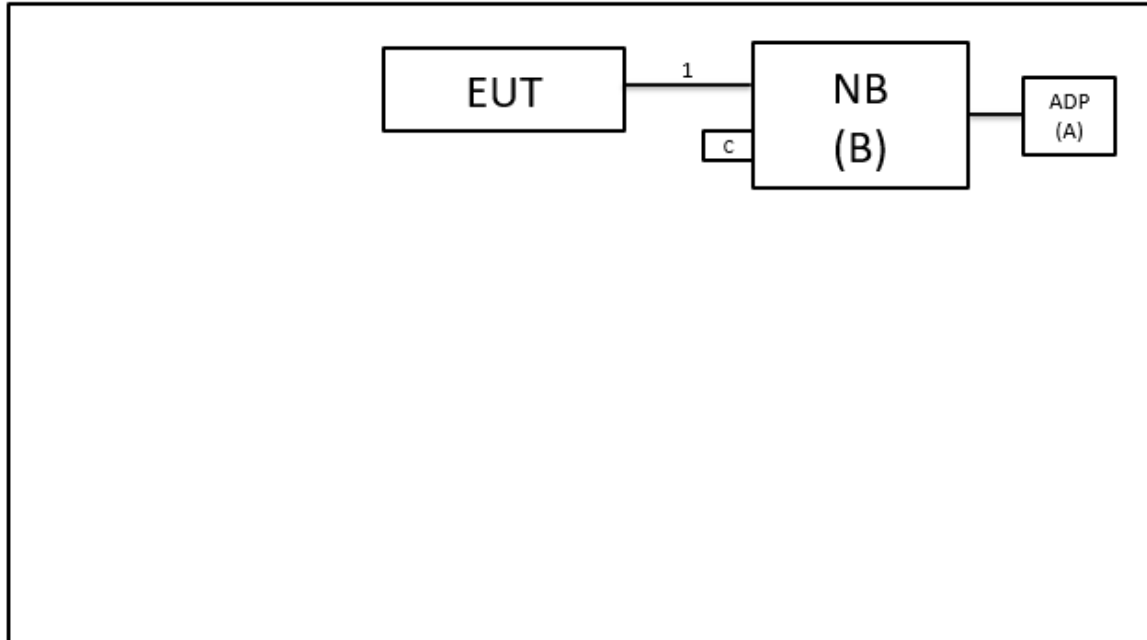
### NOTE:

- (1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (3) There were no emissions found below 30 MHz within 20 dB of the limit.

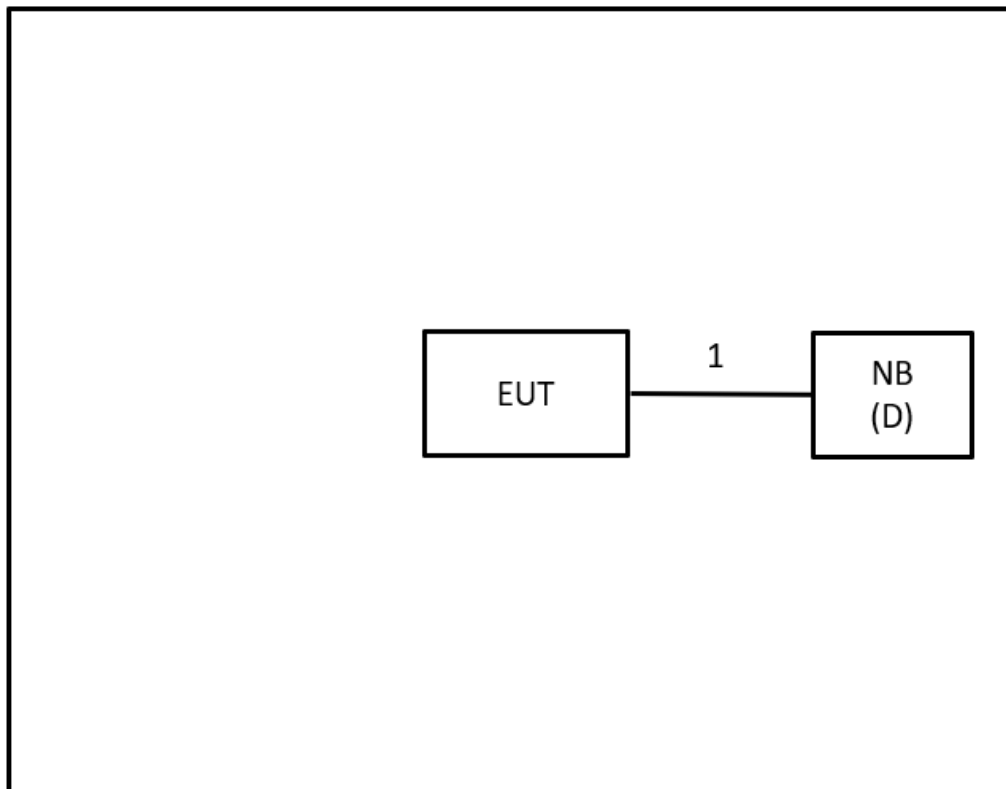
### 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

#### AC Power Line Conducted Emissions Test



#### Radiated Emissions Test



## 2.4 SUPPORT UNITS

| Item | Equipment | Brand  | Model No.  | Series No. | Remarks                    |
|------|-----------|--------|------------|------------|----------------------------|
| A    | ADP       | ASUS   | ADP-90YD B | N/A        | Furnished by test lab.     |
| B    | NB        | ASUS   | X450J      | N/A        | Furnished by test lab.     |
| C    | Dongle    | CHERRY | MXU-270R   | N/A        | Supplied by test requester |
| D    | NB        | HP     | TPN-I119   | N/A        | Furnished by test lab.     |

| Item | Shielded | Ferrite Core | Length | Cable Type | Remarks                    |
|------|----------|--------------|--------|------------|----------------------------|
| 1    | N/A      | N/A          | 1.5m   | USB cable  | Supplied by test requester |

### 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.

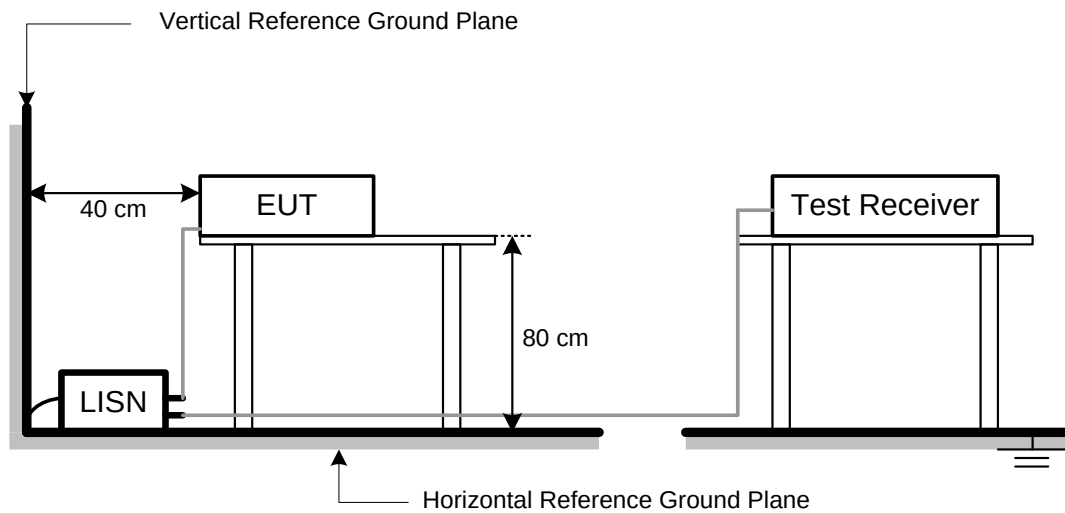
**NOTE:**

- (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:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) 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 |
|---------------|---|----------------|---|-------------------|
| 19.11         | + | 2.11           | = | 21.22             |

| Measurement Value |   | Limit Value |   | Margin Level |
|-------------------|---|-------------|---|--------------|
| 21.22             | - | 54          | = | -32.78       |

| 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 |

| 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

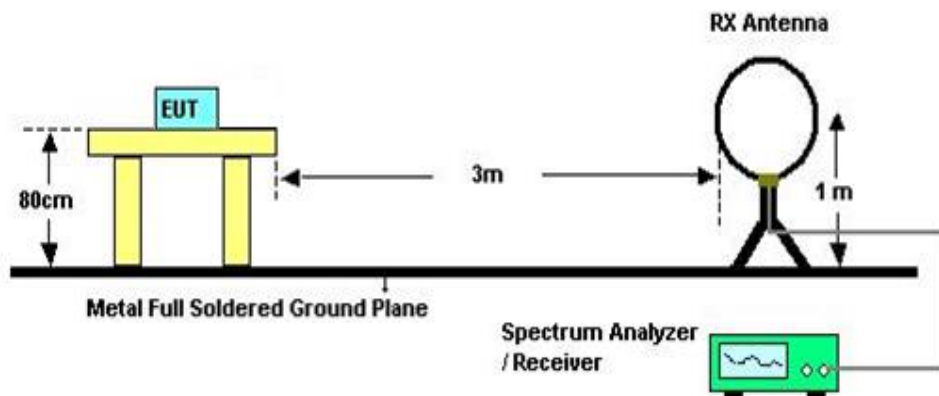
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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

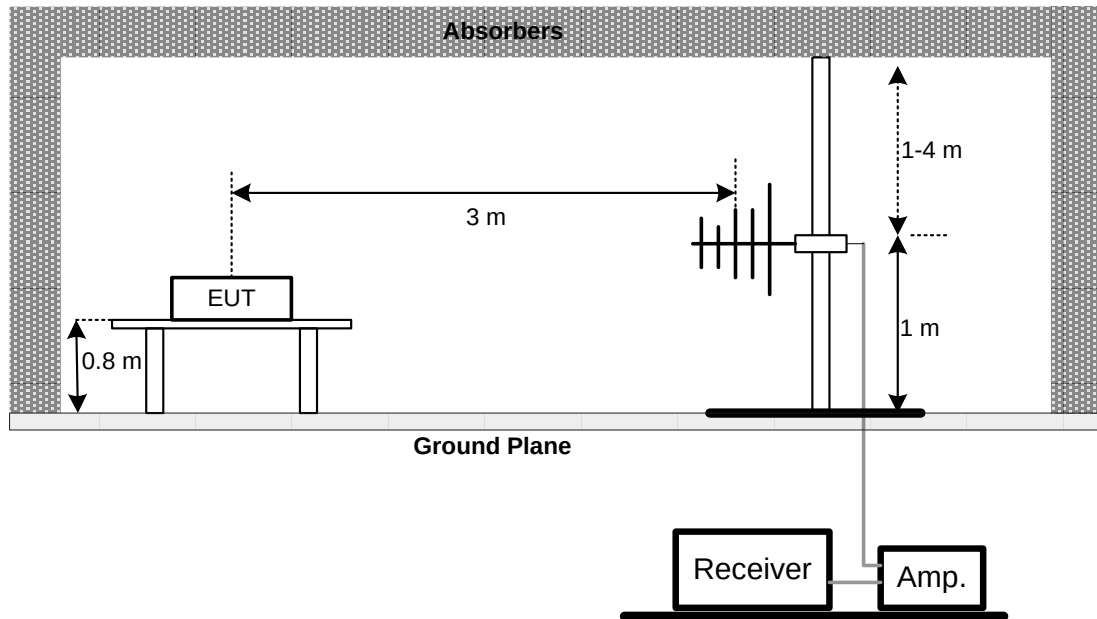
No deviation.

## 4.4 TEST SETUP

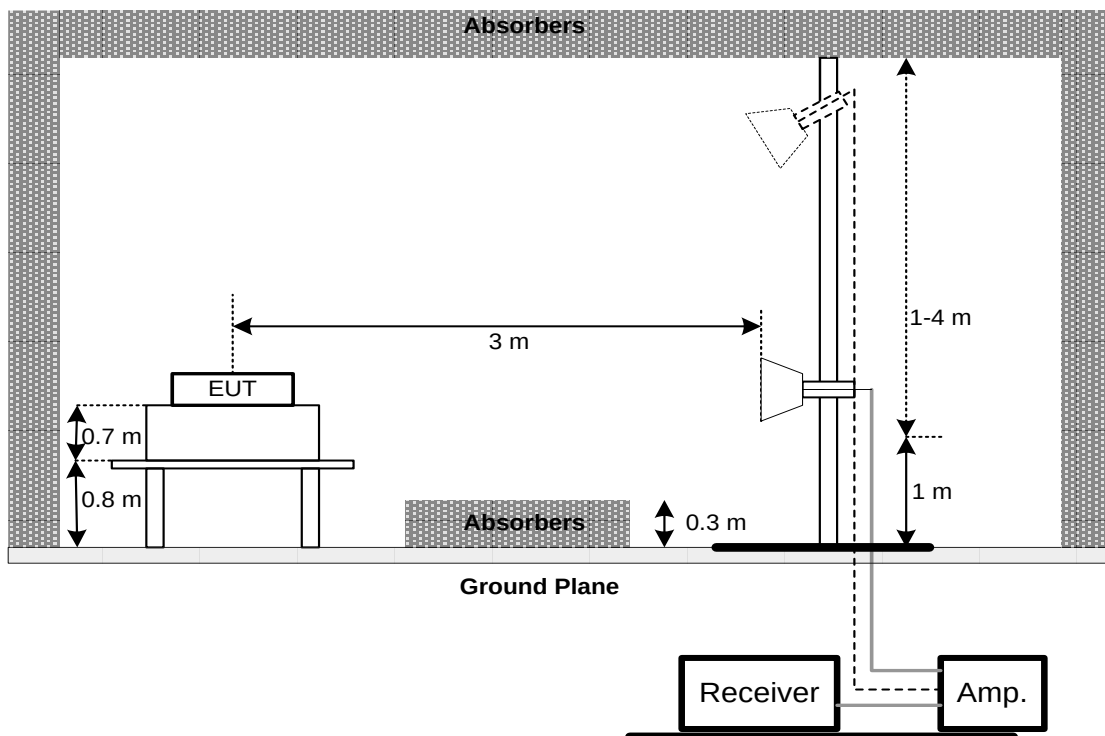
9 kHz to 30 MHz



## 30 MHz to 1 GHz



## Above 1 GHz



### 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

**4.6 TEST RESULT – 30 MHZ TO 1 GHZ**

Please refer to the APPENDIX B.

**4.7 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 BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES / LIMIT

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

### 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 4.1.5 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 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                      | 101051     | 2022/6/15       | 2023/6/14        |
| 2                                 | Test Cable           | EMCI         | EMCRG58-BM-BM-9000          | 210501     | 2022/5/2        | 2023/5/1         |
| 3                                 | EMI Test Receiver    | R&S          | ESR 7                       | 101433     | 2021/11/24      | 2022/11/23       |
| 4                                 | Measurement Software | EZ           | EZ EMC (Version NB-03A1-01) | N/A        | N/A             | N/A              |

| Radiated Emissions |                      |                 |                             |             |                        |                        |
|--------------------|----------------------|-----------------|-----------------------------|-------------|------------------------|------------------------|
| Item               | Kind of Equipment    | Manufacturer    | Type No.                    | Serial No.  | Calibrated Date        | Calibrated Until       |
| 1                  | Preamplifier         | EMCI            | EMC330N                     | 980850      | 2021/9/23<br>2022/9/19 | 2022/9/22<br>2023/9/18 |
| 2                  | Preamplifier         | EMCI            | EMC118A45SE                 | 980819      | 2022/3/8               | 2023/3/7               |
| 3                  | Preamplifier         | EMCI            | EMC001340                   | 980555      | 2022/4/6               | 2023/4/5               |
| 4                  | Test Cable           | EMCI            | EMC104-SM-SM-1000           | 220319      | 2022/3/15              | 2023/3/14              |
| 5                  | Test Cable           | EMCI            | EMC104-SM-SM-3000           | 220322      | 2022/3/15              | 2023/3/14              |
| 6                  | Test Cable           | EMCI            | EMC104-SM-SM-7000           | 220324      | 2022/3/15              | 2023/3/14              |
| 7                  | EXA Signal Analyzer  | keysight        | N9020A                      | MY57120120  | 2022/3/7               | 2023/3/6               |
| 8                  | Loop Ant             | Electro-Metrics | EMCI-LPA600                 | 274         | 2022/6/16              | 2023/6/15              |
| 9                  | Horn Antenna         | RFSPIN          | DRH18-E                     | 211202A18EN | 2022/5/18              | 2023/5/17              |
| 10                 | Horn Ant             | Schwarzbeck     | BBHA 9170D                  | 1136        | 2022/5/18              | 2023/5/17              |
| 11                 | Log-bicon Antenna    | Schwarzbeck     | VULB9168                    | 1369        | 2022/5/20              | 2023/5/19              |
| 12                 | 6dB Attenuator       | EMCI            | EMCI-N-6-06                 | AT-N0625    | 2022/5/20              | 2023/5/19              |
| 13                 | Measurement Software | EZ              | EZ EMC (Version NB-03A1-01) | N/A         | N/A                    | N/A                    |

| Bandwidth |                   |              |          |            |                 |                  |
|-----------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item      | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1         | Spectrum Analyzer | R&S          | FSP38    | 101139     | 2022/3/2        | 2023/3/1         |

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

## **7 EUT TEST PHOTO**

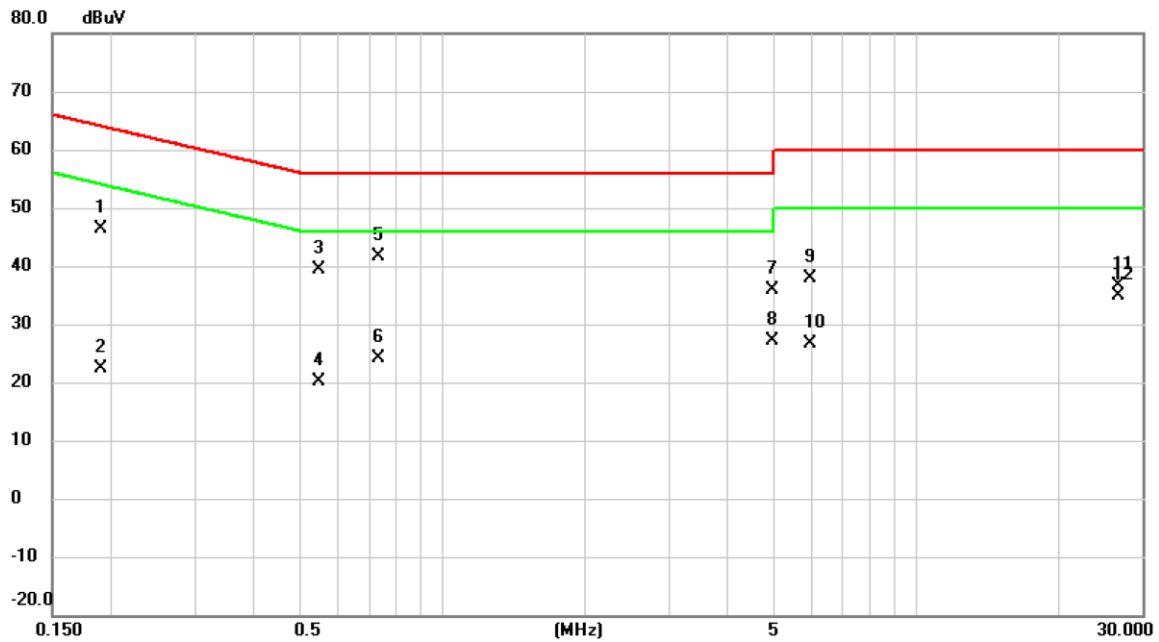
Please refer to document Appendix No.: TP-2207T123-FCCP-1 (APPENDIX-TEST PHOTOS).

## **8 EUT PHOTOS**

Please refer to document Appendix No.: EP-2207T123-1 (APPENDIX-EUT PHOTOS).

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

|                |        |             |           |
|----------------|--------|-------------|-----------|
| Test Mode      | Normal | Tested Date | 2022/8/17 |
| Test Frequency | -      | Phase       | Line      |

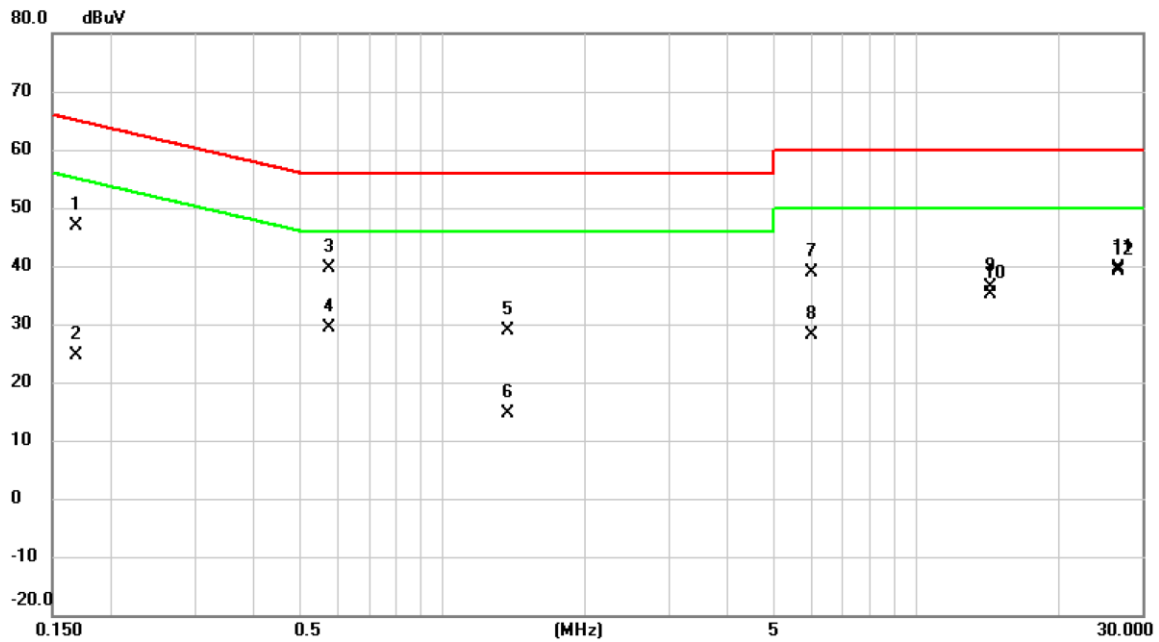


| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.1905  | 36.87         | 9.63           | 46.50       | 64.01 | -17.51 | QP       |         |
| 2   |     | 0.1905  | 12.65         | 9.63           | 22.28       | 54.01 | -31.73 | AVG      |         |
| 3   |     | 0.5503  | 29.83         | 9.62           | 39.45       | 56.00 | -16.55 | QP       |         |
| 4   |     | 0.5503  | 10.62         | 9.62           | 20.24       | 46.00 | -25.76 | AVG      |         |
| 5   | *   | 0.7327  | 31.88         | 9.64           | 41.52       | 56.00 | -14.48 | QP       |         |
| 6   |     | 0.7327  | 14.38         | 9.64           | 24.02       | 46.00 | -21.98 | AVG      |         |
| 7   |     | 4.9650  | 26.07         | 9.75           | 35.82       | 56.00 | -20.18 | QP       |         |
| 8   |     | 4.9650  | 17.33         | 9.75           | 27.08       | 46.00 | -18.92 | AVG      |         |
| 9   |     | 5.9820  | 28.21         | 9.77           | 37.98       | 60.00 | -22.02 | QP       |         |
| 10  |     | 5.9820  | 16.97         | 9.77           | 26.74       | 50.00 | -23.26 | AVG      |         |
| 11  |     | 26.6235 | 26.76         | 9.76           | 36.52       | 60.00 | -23.48 | QP       |         |
| 12  |     | 26.6235 | 25.03         | 9.76           | 34.79       | 50.00 | -15.21 | AVG      |         |

## REMARKS:

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

|                |        |             |           |
|----------------|--------|-------------|-----------|
| Test Mode      | Normal | Tested Date | 2022/8/17 |
| Test Frequency | -      | Phase       | Neutral   |

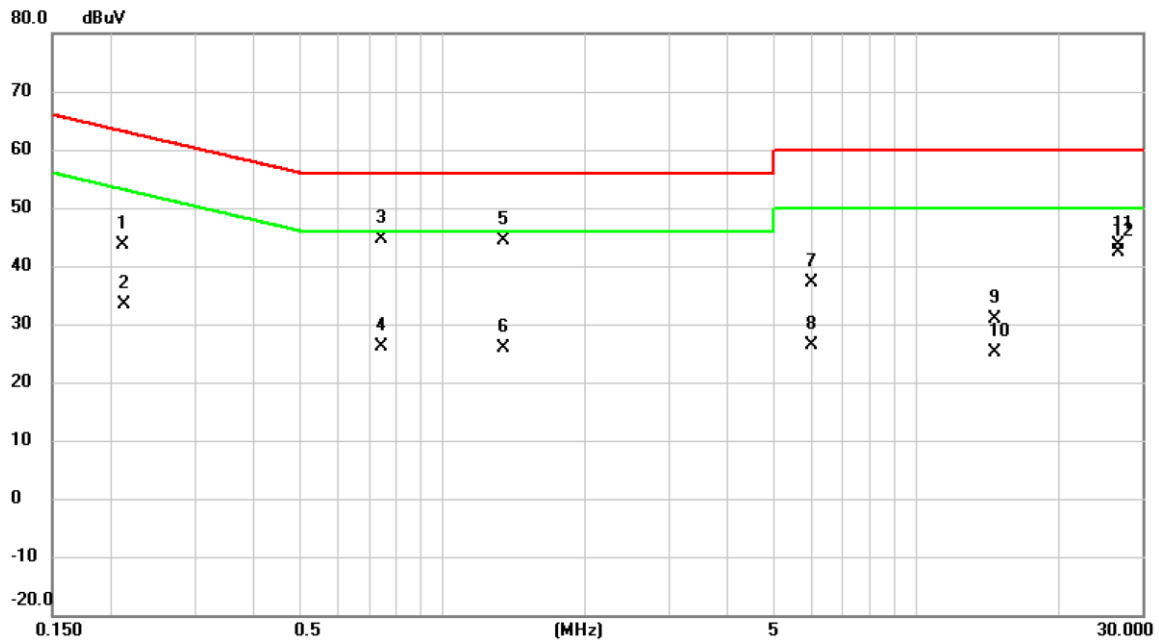


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1685       | 37.17                    | 9.63                    | 46.80                    | 65.03         | -18.23       | QP       |         |
| 2   |     | 0.1685       | 15.09                    | 9.63                    | 24.72                    | 55.03         | -30.31       | AVG      |         |
| 3   |     | 0.5752       | 30.06                    | 9.62                    | 39.68                    | 56.00         | -16.32       | QP       |         |
| 4   |     | 0.5752       | 19.80                    | 9.62                    | 29.42                    | 46.00         | -16.58       | AVG      |         |
| 5   |     | 1.3740       | 19.10                    | 9.67                    | 28.77                    | 56.00         | -27.23       | QP       |         |
| 6   |     | 1.3740       | 4.88                     | 9.67                    | 14.55                    | 46.00         | -31.45       | AVG      |         |
| 7   |     | 6.0338       | 28.98                    | 9.78                    | 38.76                    | 60.00         | -21.24       | QP       |         |
| 8   |     | 6.0338       | 18.33                    | 9.78                    | 28.11                    | 50.00         | -21.89       | AVG      |         |
| 9   |     | 14.3363      | 26.56                    | 9.90                    | 36.46                    | 60.00         | -23.54       | QP       |         |
| 10  |     | 14.3363      | 25.25                    | 9.90                    | 35.15                    | 50.00         | -14.85       | AVG      |         |
| 11  |     | 26.6235      | 29.62                    | 9.98                    | 39.60                    | 60.00         | -20.40       | QP       |         |
| 12  | *   | 26.6235      | 29.15                    | 9.98                    | 39.13                    | 50.00         | -10.87       | AVG      |         |

## REMARKS:

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

|                |      |             |           |
|----------------|------|-------------|-----------|
| Test Mode      | Idle | Tested Date | 2022/8/17 |
| Test Frequency | -    | Phase       | Line      |

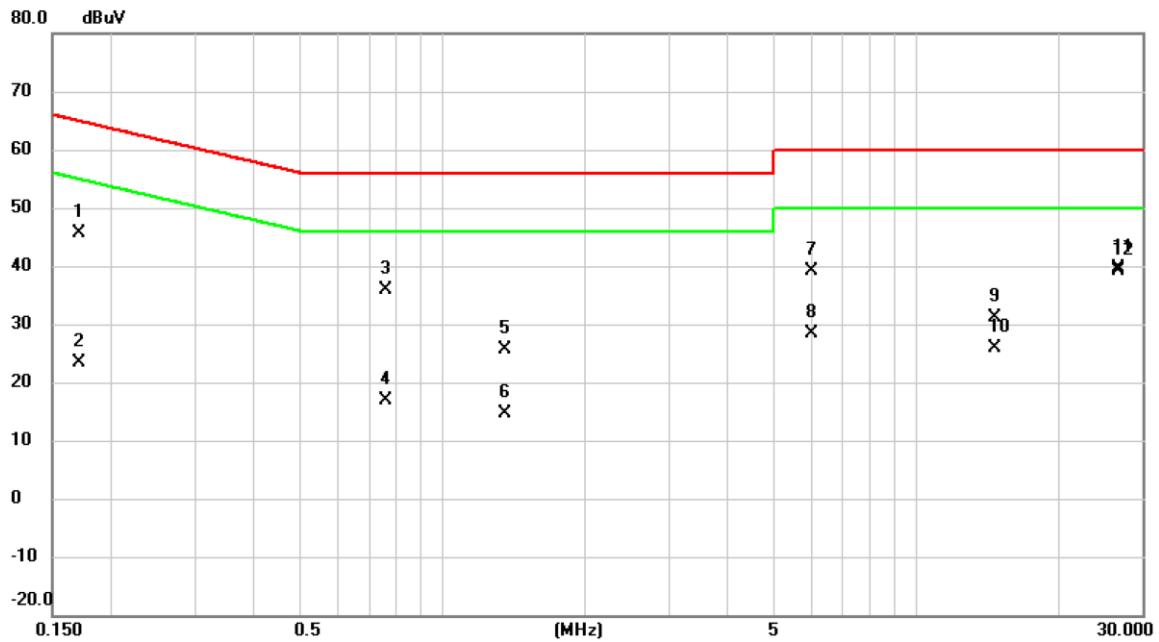


| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.2117  | 33.97         | 9.63           | 43.60       | 63.14 | -19.54 | QP       |         |
| 2   |     | 0.2130  | 23.71         | 9.63           | 33.34       | 53.09 | -19.75 | AVG      |         |
| 3   |     | 0.7417  | 35.10         | 9.64           | 44.74       | 56.00 | -11.26 | QP       |         |
| 4   |     | 0.7417  | 16.49         | 9.64           | 26.13       | 46.00 | -19.87 | AVG      |         |
| 5   |     | 1.3448  | 34.59         | 9.67           | 44.26       | 56.00 | -11.74 | QP       |         |
| 6   |     | 1.3448  | 16.33         | 9.67           | 26.00       | 46.00 | -20.00 | AVG      |         |
| 7   |     | 6.0113  | 27.27         | 9.77           | 37.04       | 60.00 | -22.96 | QP       |         |
| 8   |     | 6.0113  | 16.59         | 9.77           | 26.36       | 50.00 | -23.64 | AVG      |         |
| 9   |     | 14.6738 | 21.07         | 9.83           | 30.90       | 60.00 | -29.10 | QP       |         |
| 10  |     | 14.6738 | 15.40         | 9.83           | 25.23       | 50.00 | -24.77 | AVG      |         |
| 11  |     | 26.6235 | 33.92         | 9.76           | 43.68       | 60.00 | -16.32 | QP       |         |
| 12  | *   | 26.6235 | 32.68         | 9.76           | 42.44       | 50.00 | -7.56  | AVG      |         |

## REMARKS:

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

|                |      |             |           |
|----------------|------|-------------|-----------|
| Test Mode      | Idle | Tested Date | 2022/8/17 |
| Test Frequency | -    | Phase       | Neutral   |



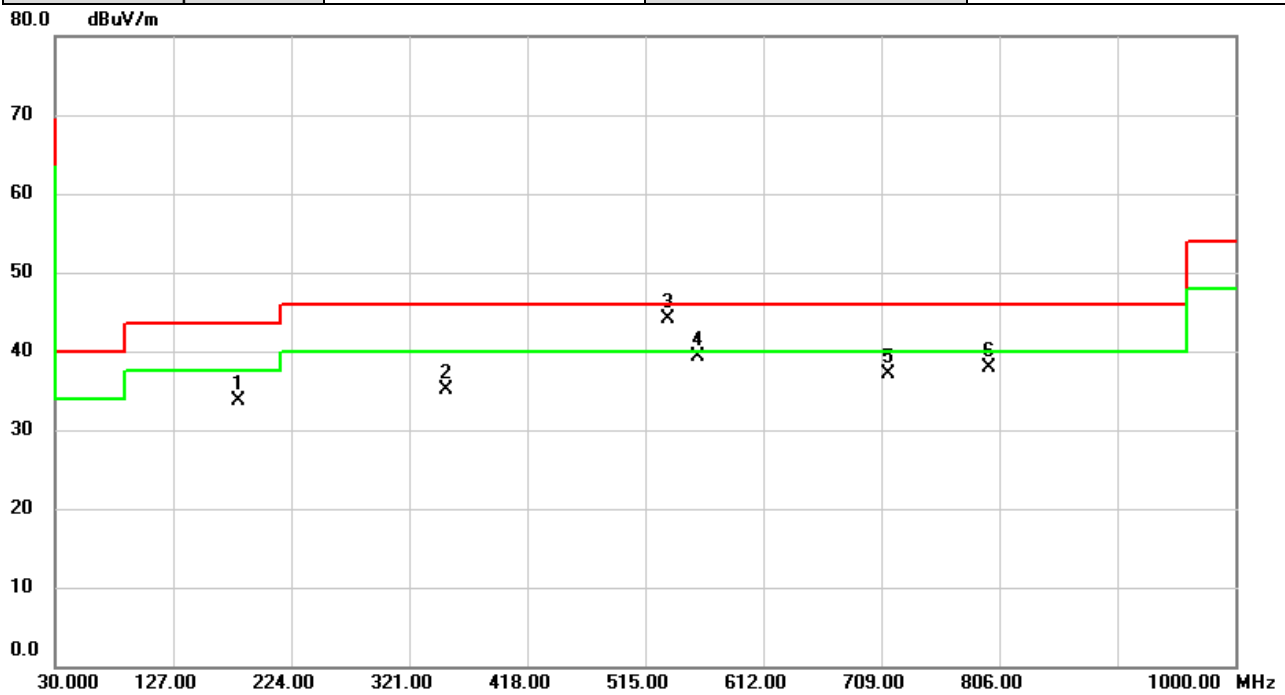
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1712       | 36.01                    | 9.63                    | 45.64                    | 64.90         | -19.26       | QP       |         |
| 2   |     | 0.1712       | 13.73                    | 9.63                    | 23.36                    | 54.90         | -31.54       | AVG      |         |
| 3   |     | 0.7575       | 26.13                    | 9.65                    | 35.78                    | 56.00         | -20.22       | QP       |         |
| 4   |     | 0.7575       | 7.18                     | 9.65                    | 16.83                    | 46.00         | -29.17       | AVG      |         |
| 5   |     | 1.3515       | 16.07                    | 9.67                    | 25.74                    | 56.00         | -30.26       | QP       |         |
| 6   |     | 1.3515       | 4.85                     | 9.67                    | 14.52                    | 46.00         | -31.48       | AVG      |         |
| 7   |     | 6.0113       | 29.41                    | 9.78                    | 39.19                    | 60.00         | -20.81       | QP       |         |
| 8   |     | 6.0113       | 18.50                    | 9.78                    | 28.28                    | 50.00         | -21.72       | AVG      |         |
| 9   |     | 14.6940      | 21.27                    | 9.90                    | 31.17                    | 60.00         | -28.83       | QP       |         |
| 10  |     | 14.6940      | 16.02                    | 9.90                    | 25.92                    | 50.00         | -24.08       | AVG      |         |
| 11  |     | 26.6235      | 29.64                    | 9.98                    | 39.62                    | 60.00         | -20.38       | QP       |         |
| 12  | *   | 26.6235      | 29.19                    | 9.98                    | 39.17                    | 50.00         | -10.83       | 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**

|                |         |              |           |
|----------------|---------|--------------|-----------|
| Test Mode      | SRD     | Test Date    | 2023/1/17 |
| Test Frequency | 2480MHz | Polarization | Vertical  |
| Temp           | 23°C    | Hum.         | 59%       |

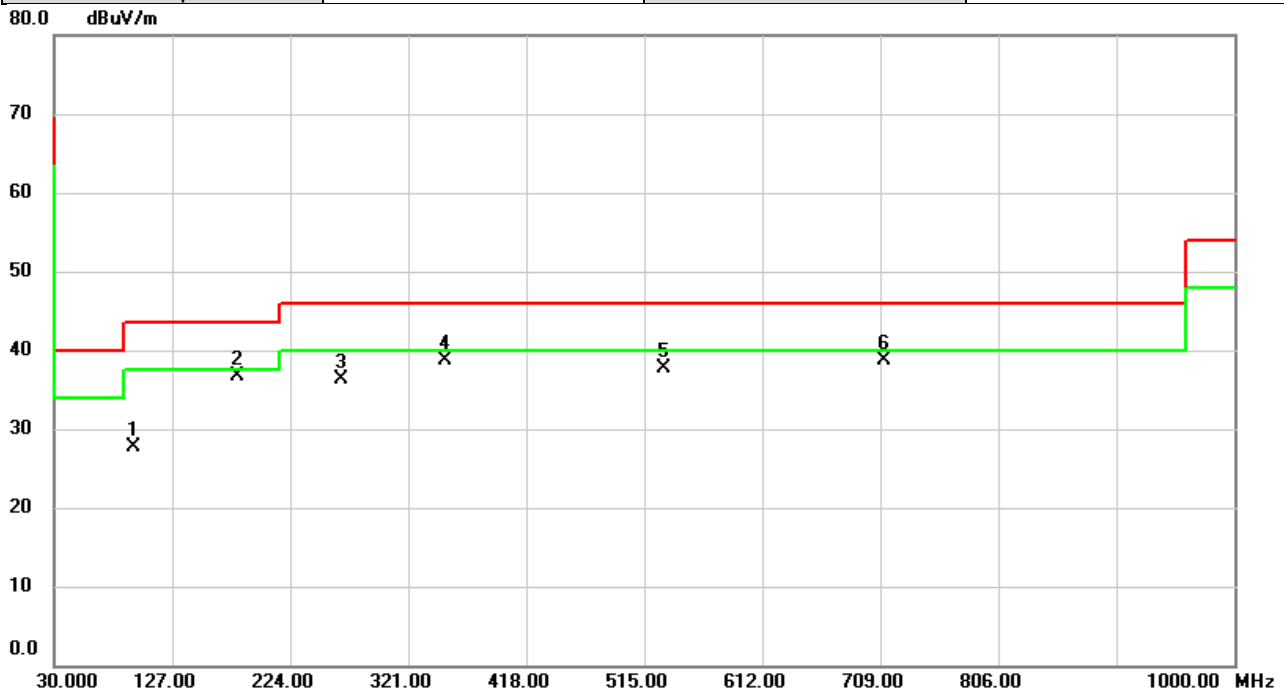


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 181.0937 | 47.27         | -13.52         | 33.75        | 43.50  | -9.75  | peak     |         |
| 2   |     | 351.6520 | 45.46         | -10.31         | 35.15        | 46.00  | -10.85 | peak     |         |
| 3   | *   | 533.2037 | 50.03         | -5.91          | 44.12        | 46.00  | -1.88  | peak     |         |
| 4   |     | 558.3913 | 44.56         | -5.35          | 39.21        | 46.00  | -6.79  | peak     |         |
| 5   |     | 714.6907 | 39.60         | -2.50          | 37.10        | 46.00  | -8.90  | peak     |         |
| 6   |     | 797.5933 | 39.04         | -1.10          | 37.94        | 46.00  | -8.06  | peak     |         |

## REMARKS:

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

|                |         |              |            |
|----------------|---------|--------------|------------|
| Test Mode      | SRD     | Test Date    | 2023/1/17  |
| Test Frequency | 2480MHz | Polarization | Horizontal |
| Temp           | 23°C    | Hum.         | 59%        |



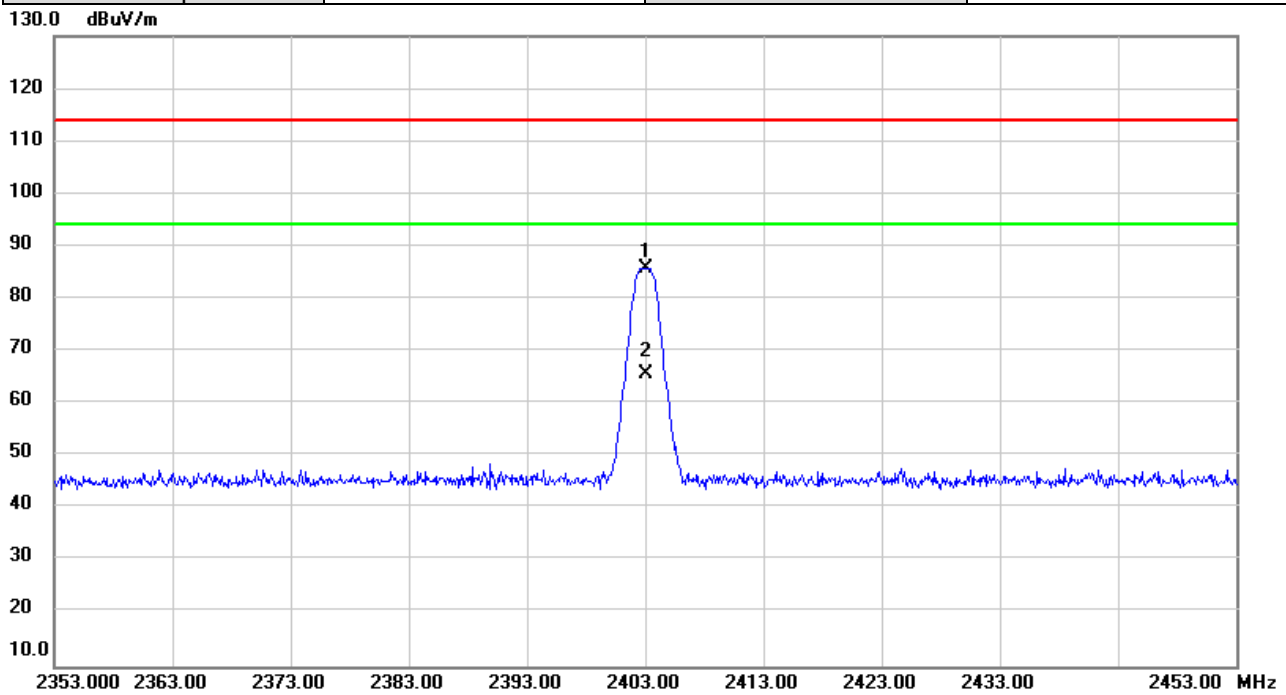
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   |     | 95.6690  | 44.53         | -16.86         | 27.67        | 43.50  | -15.83 | peak     |         |
| 2   | *   | 180.7056 | 50.22         | -13.47         | 36.75        | 43.50  | -6.75  | peak     |         |
| 3   |     | 266.0980 | 48.68         | -12.44         | 36.24        | 46.00  | -9.76  | peak     |         |
| 4   |     | 351.0376 | 49.10         | -10.33         | 38.77        | 46.00  | -7.23  | peak     |         |
| 5   |     | 531.0050 | 43.57         | -5.94          | 37.63        | 46.00  | -8.37  | peak     |         |
| 6   |     | 711.6190 | 41.18         | -2.57          | 38.61        | 46.00  | -7.39  | peak     |         |

## REMARKS:

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

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

|                |         |              |           |
|----------------|---------|--------------|-----------|
| Test Mode      | SRD     | Test Date    | 2022/8/18 |
| Test Frequency | 2403MHz | Polarization | Vertical  |
| Temp           | 28°C    | Hum.         | 62%       |

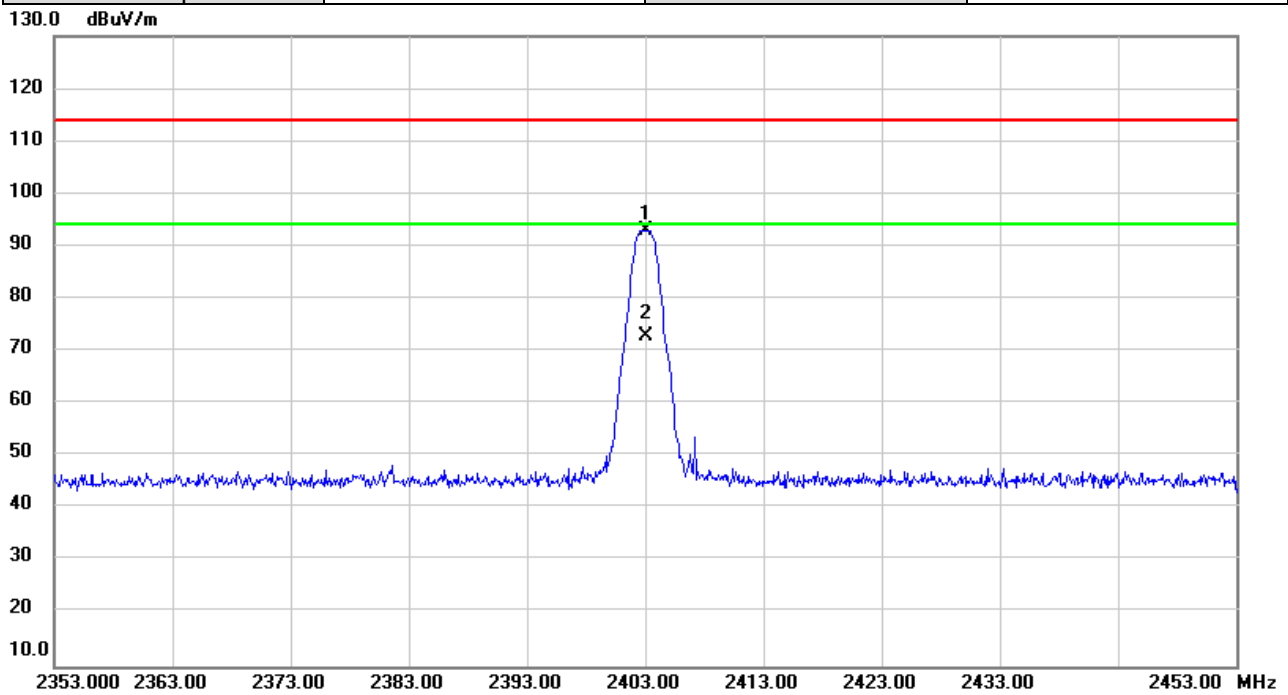


| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |         |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 2403.000 | 91.60            | -5.75             | 85.85            | 114.00 | -28.15 | peak     |         |
| 2   |     | 2403.000 | 85.85            | -20.31            | 65.54            | 94.00  | -28.46 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |            |
|----------------|---------|--------------|------------|
| Test Mode      | SRD     | Test Date    | 2022/8/18  |
| Test Frequency | 2403MHz | Polarization | Horizontal |
| Temp           | 28°C    | Hum.         | 62%        |

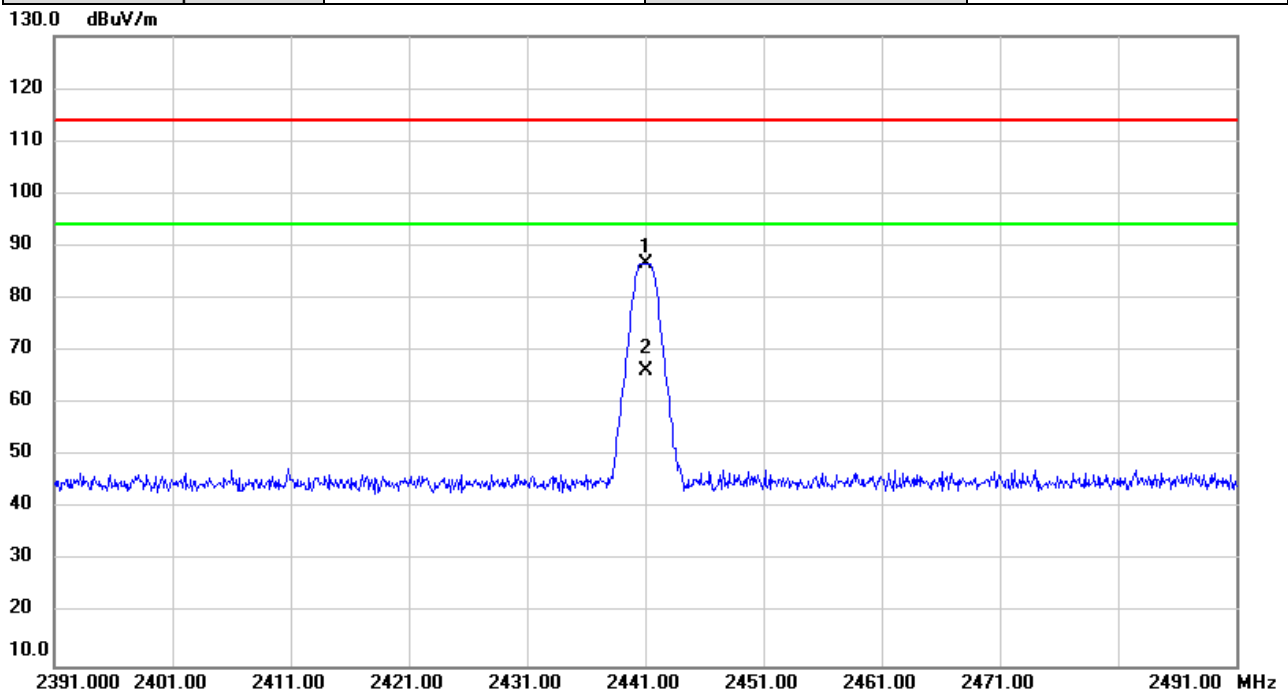


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 2403.000 | 98.81         | -5.75          | 93.06        | 114.00 | -20.94 | peak     |         |
| 2   |     | 2403.000 | 93.06         | -20.31         | 72.75        | 94.00  | -21.25 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |           |
|----------------|---------|--------------|-----------|
| Test Mode      | SRD     | Test Date    | 2022/8/18 |
| Test Frequency | 2441MHz | Polarization | Vertical  |
| Temp           | 28°C    | Hum.         | 62%       |

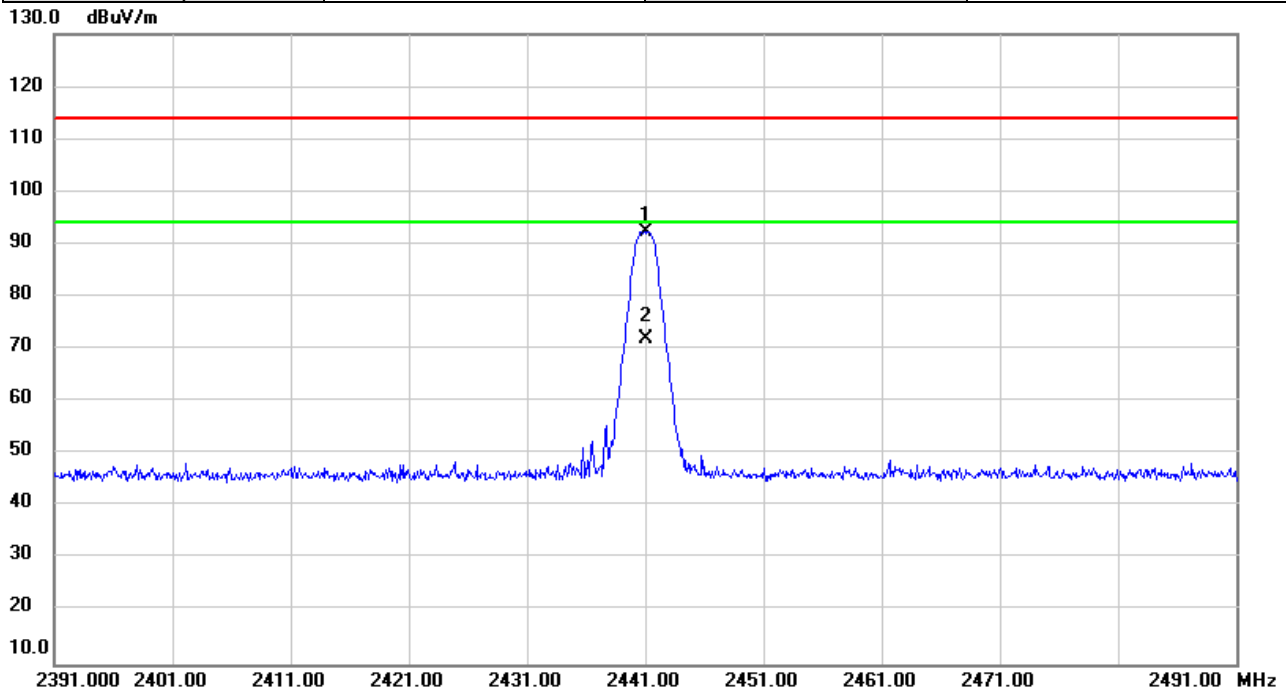


| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |         |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 2441.000 | 92.39            | -5.70             | 86.69            | 114.00 | -27.31 | peak     |         |
| 2   |     | 2441.000 | 86.69            | -20.31            | 66.38            | 94.00  | -27.62 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\text{Log}(\text{duty cycle}) = 0$

|                |         |              |            |
|----------------|---------|--------------|------------|
| Test Mode      | SRD     | Test Date    | 2022/8/18  |
| Test Frequency | 2441MHz | Polarization | Horizontal |
| Temp           | 28°C    | Hum.         | 62%        |

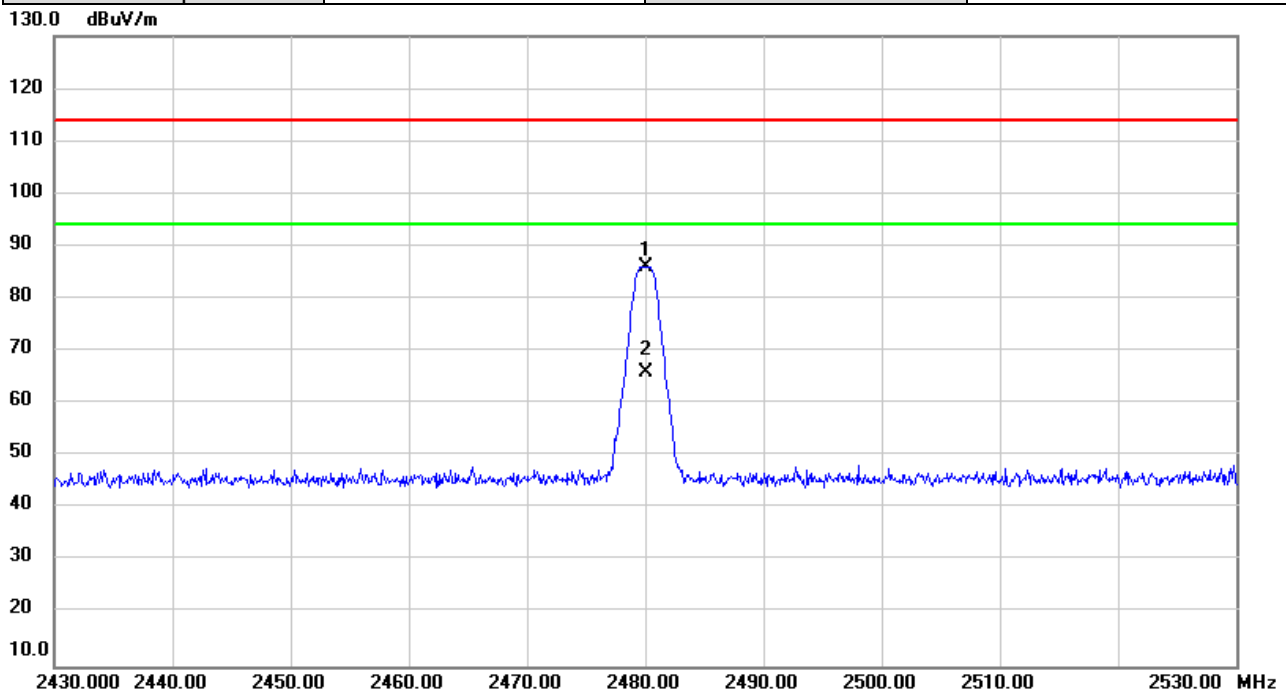


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 2441.000 | 97.95         | -5.70          | 92.25        | 114.00 | -21.75 | peak     |         |
| 2   |     | 2441.000 | 92.25         | -20.31         | 71.94        | 94.00  | -22.06 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |           |
|----------------|---------|--------------|-----------|
| Test Mode      | SRD     | Test Date    | 2022/8/18 |
| Test Frequency | 2480MHz | Polarization | Vertical  |
| Temp           | 28°C    | Hum.         | 62%       |

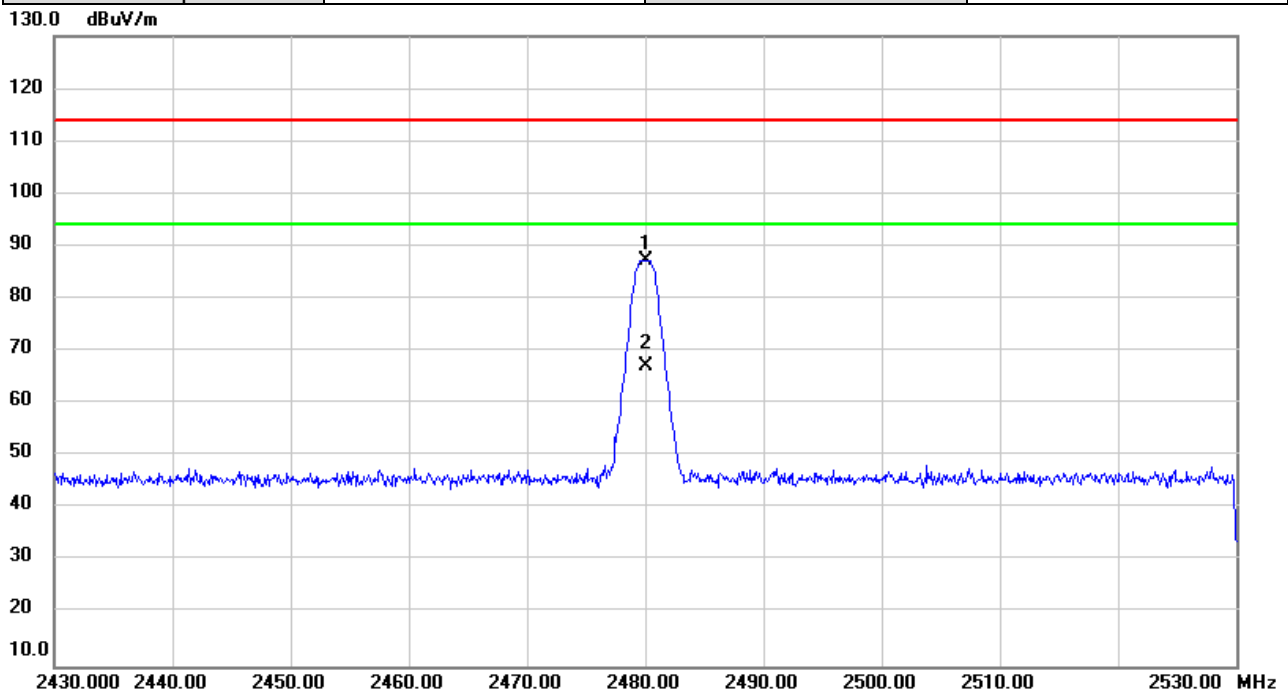


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 2480.000 | 91.83         | -5.65          | 86.18        | 114.00 | -27.82 | peak     |         |
| 2   |     | 2480.000 | 86.18         | -20.31         | 65.87        | 94.00  | -28.13 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |            |
|----------------|---------|--------------|------------|
| Test Mode      | SRD     | Test Date    | 2022/8/18  |
| Test Frequency | 2480MHz | Polarization | Horizontal |
| Temp           | 28°C    | Hum.         | 62%        |

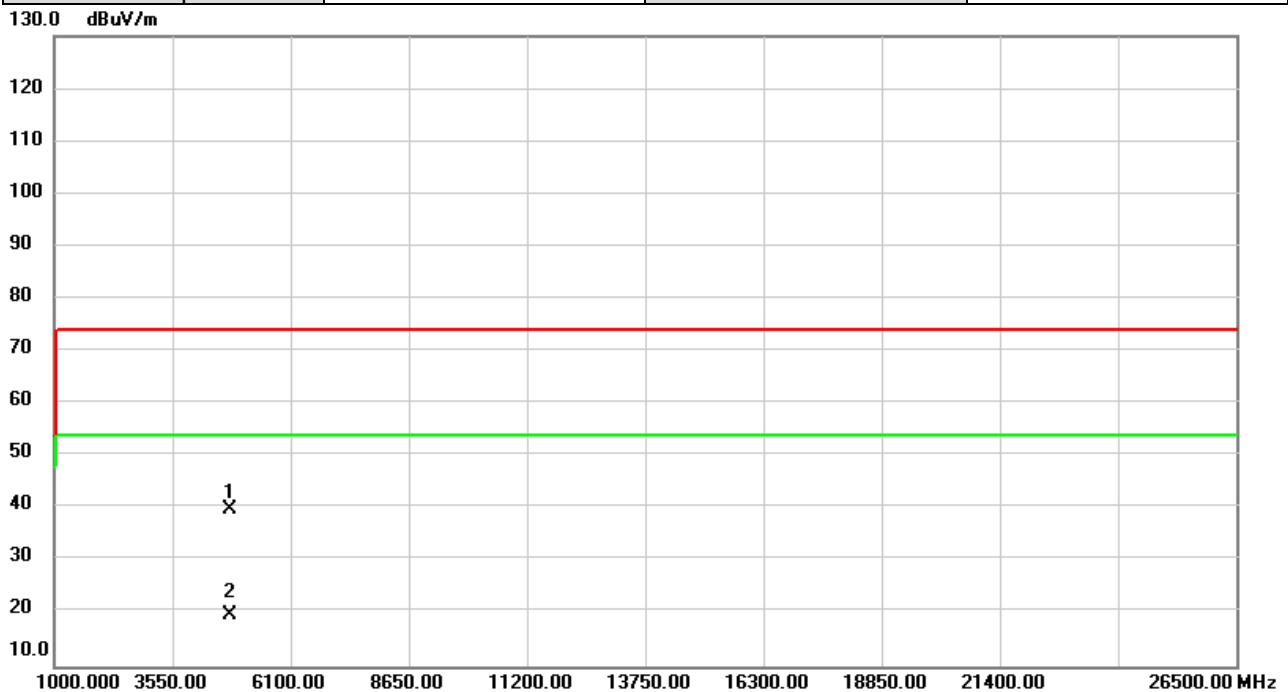


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 2480.000 | 93.02         | -5.65          | 87.37        | 114.00 | -26.63 | peak     |         |
| 2   |     | 2480.000 | 87.37         | -20.31         | 67.06        | 94.00  | -26.94 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |           |
|----------------|---------|--------------|-----------|
| Test Mode      | SRD     | Test Date    | 2022/8/18 |
| Test Frequency | 2403MHz | Polarization | Vertical  |
| Temp           | 28°C    | Hum.         | 62%       |

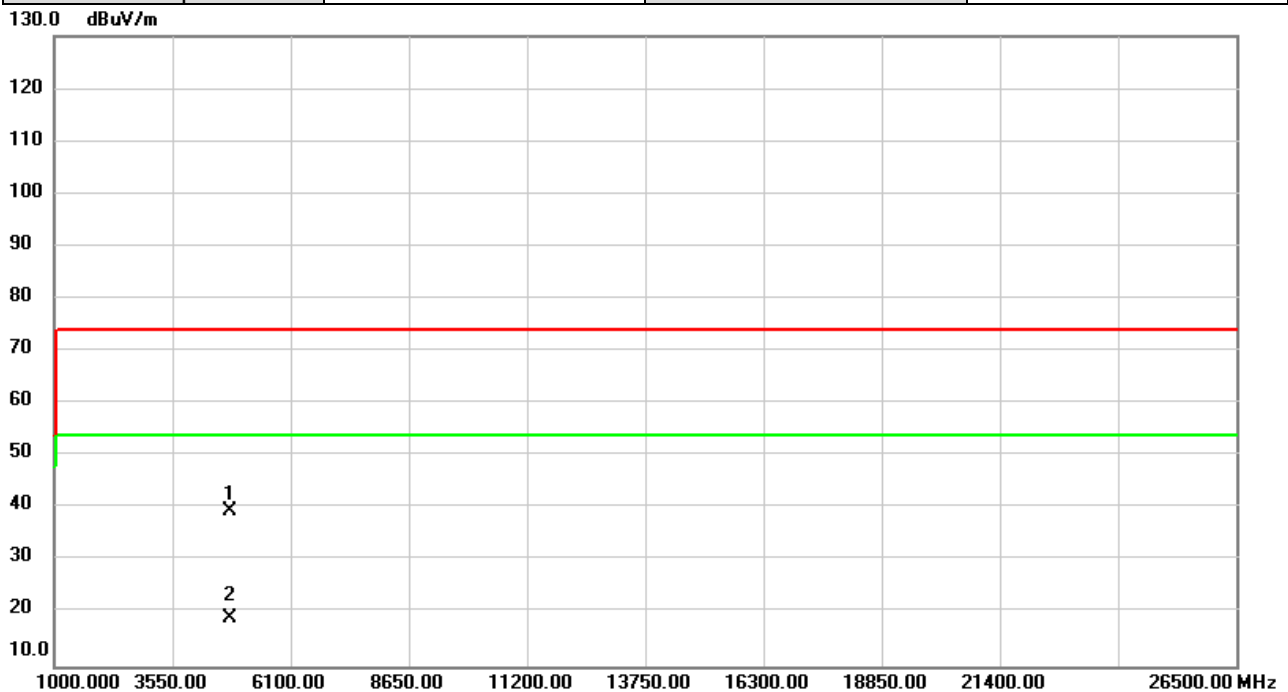


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 4806.000 | 39.33         | 0.66           | 39.99        | 74.00  | -34.01 | peak     |         |
| 2   |     | 4806.000 | 39.99         | -20.31         | 19.68        | 54.00  | -34.32 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |            |
|----------------|---------|--------------|------------|
| Test Mode      | SRD     | Test Date    | 2022/8/18  |
| Test Frequency | 2403MHz | Polarization | Horizontal |
| Temp           | 28°C    | Hum.         | 62%        |

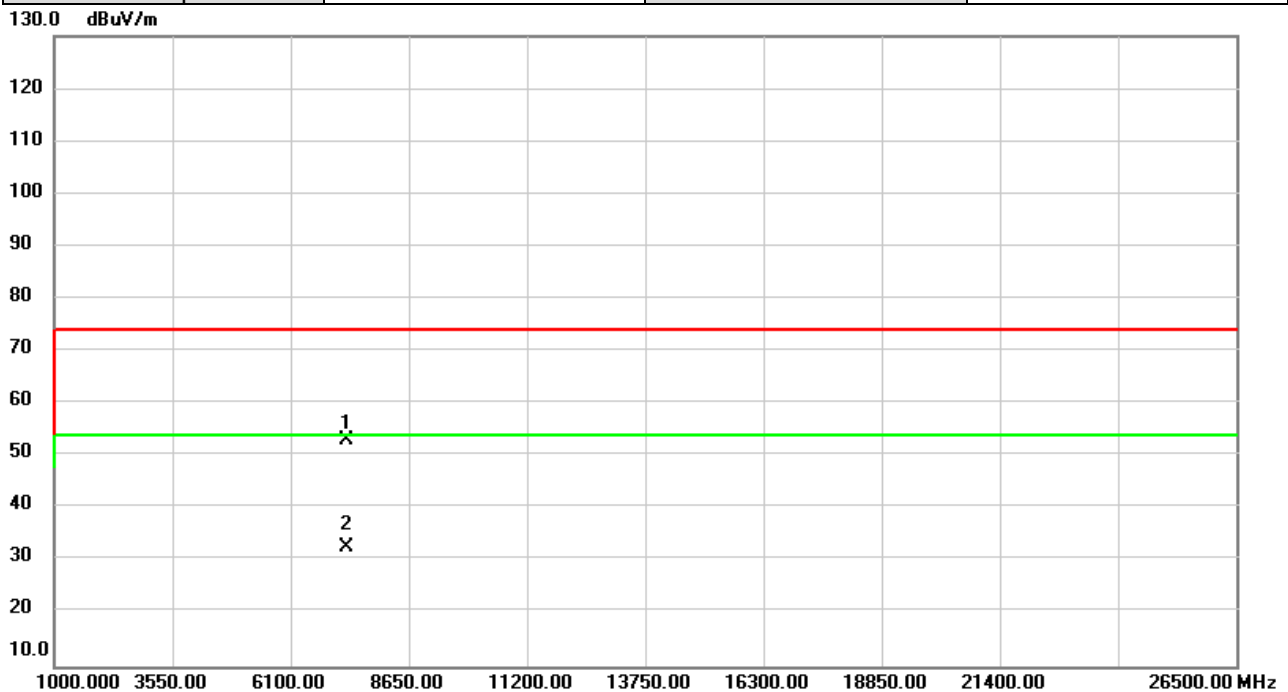


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 4806.000 | 38.78         | 0.66           | 39.44        | 74.00  | -34.56 | peak     |         |
| 2   |     | 4806.000 | 39.44         | -20.31         | 19.13        | 54.00  | -34.87 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |           |
|----------------|---------|--------------|-----------|
| Test Mode      | SRD     | Test Date    | 2022/8/18 |
| Test Frequency | 2441MHz | Polarization | Vertical  |
| Temp           | 28°C    | Hum.         | 62%       |

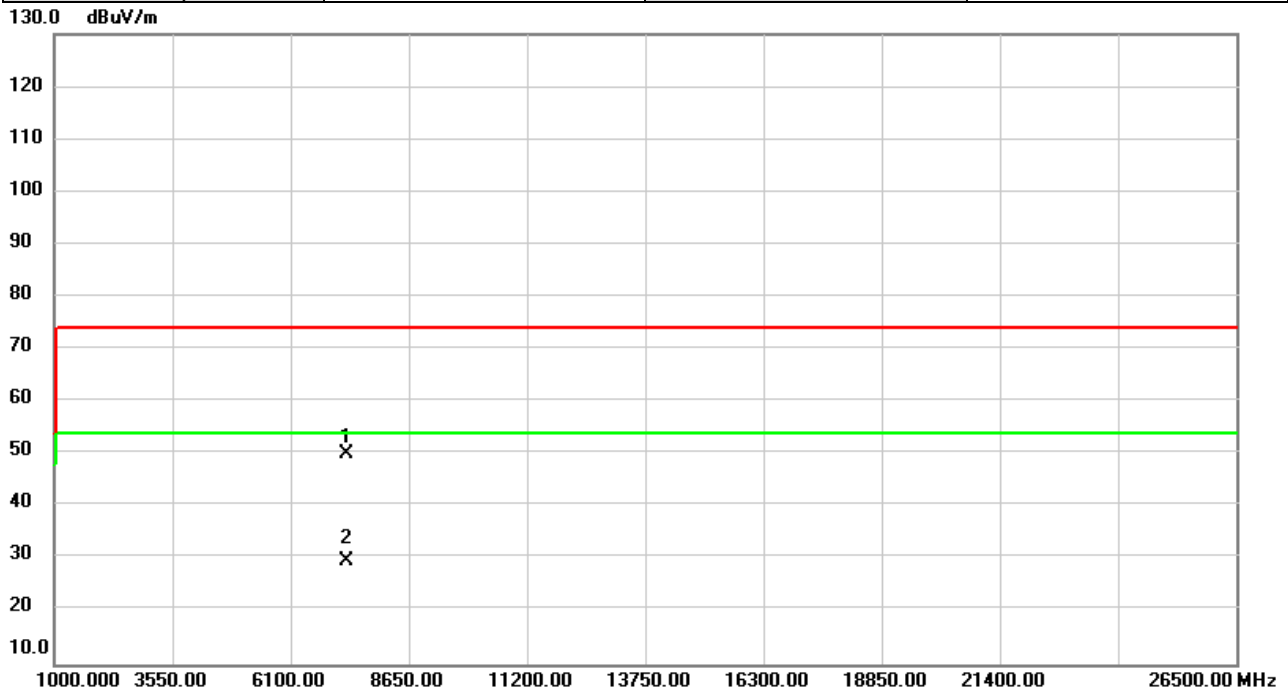


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 7323.000 | 47.51         | 5.56           | 53.07        | 74.00  | -20.93 | peak     |         |
| 2   |     | 7323.000 | 53.07         | -20.31         | 32.76        | 54.00  | -21.24 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |            |
|----------------|---------|--------------|------------|
| Test Mode      | SRD     | Test Date    | 2022/8/18  |
| Test Frequency | 2441MHz | Polarization | Horizontal |
| Temp           | 28°C    | Hum.         | 62%        |

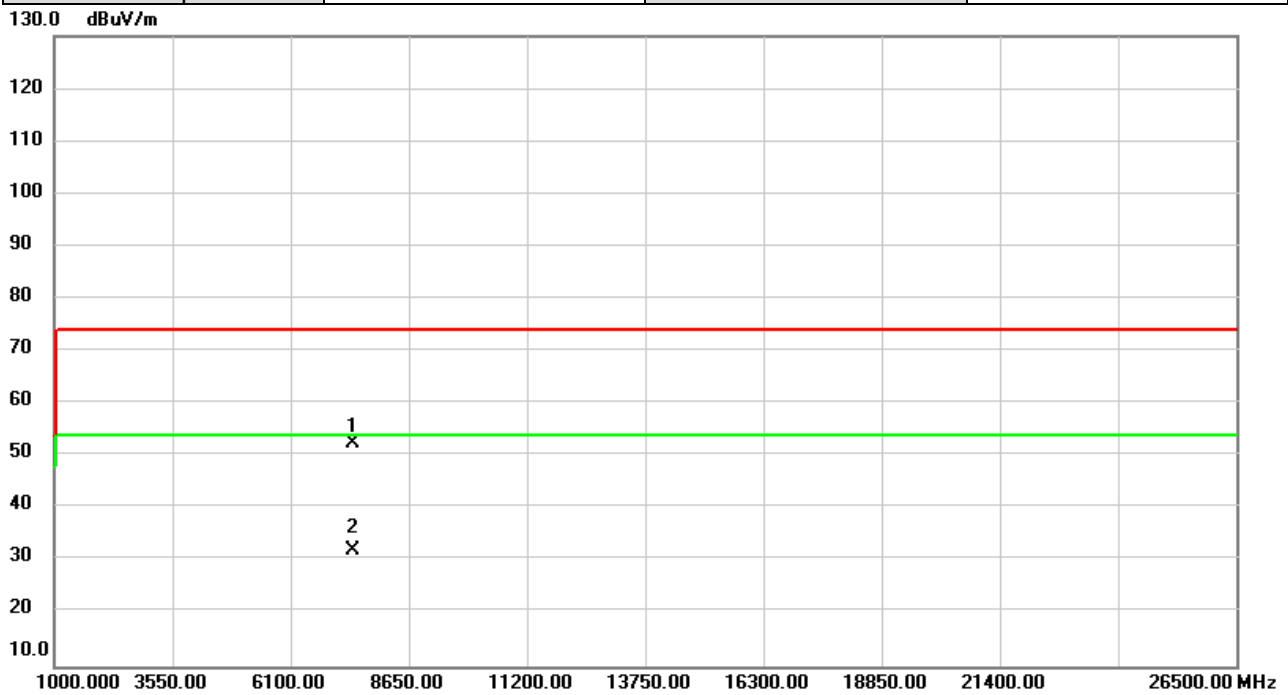


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 7323.000 | 44.36         | 5.56           | 49.92        | 74.00  | -24.08 | peak     |         |
| 2   |     | 7323.000 | 49.92         | -20.31         | 29.61        | 54.00  | -24.39 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |           |
|----------------|---------|--------------|-----------|
| Test Mode      | SRD     | Test Date    | 2022/8/18 |
| Test Frequency | 2480MHz | Polarization | Vertical  |
| Temp           | 28°C    | Hum.         | 62%       |

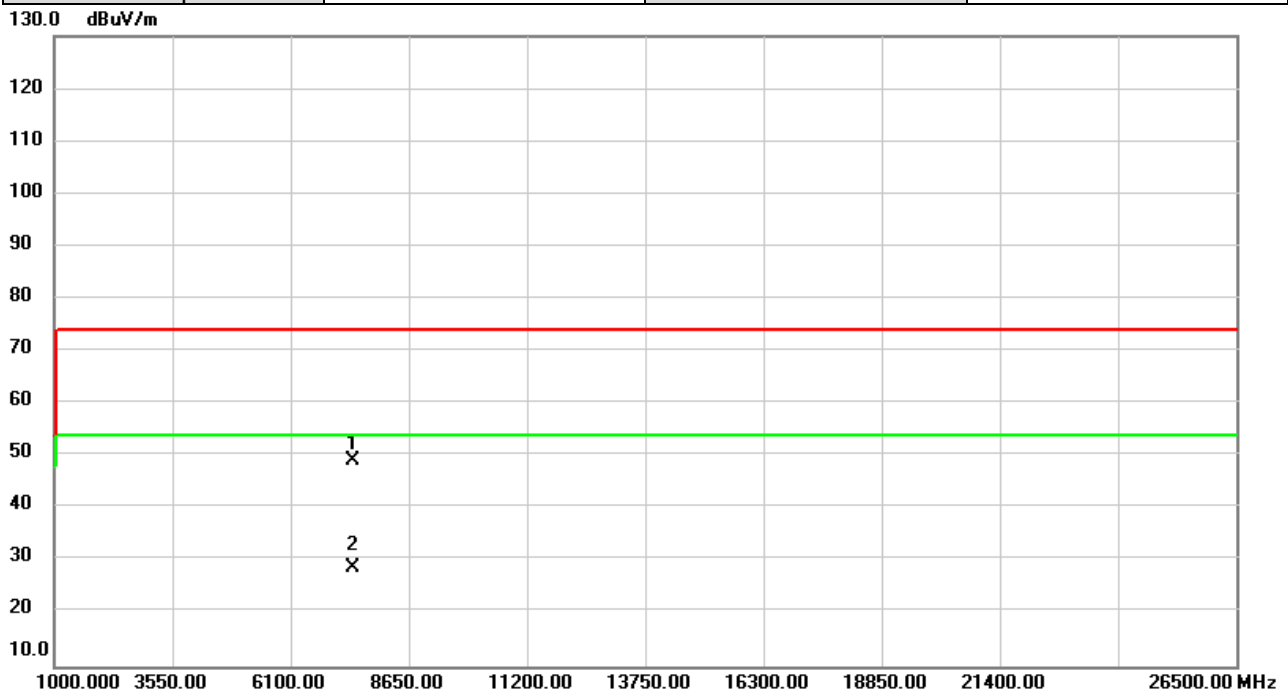


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 7440.000 | 46.80         | 5.60           | 52.40        | 74.00  | -21.60 | peak     |         |
| 2   |     | 7440.000 | 52.40         | -20.31         | 32.09        | 54.00  | -21.91 | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

|                |         |              |            |
|----------------|---------|--------------|------------|
| Test Mode      | SRD     | Test Date    | 2022/8/18  |
| Test Frequency | 2480MHz | Polarization | Horizontal |
| Temp           | 28°C    | Hum.         | 62%        |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 7440.000 | 43.49         | 5.60           | 49.09       | 74.00  | -24.91 | peak     |         |
| 2   |     | 7440.000 | 49.09         | -20.31         | 28.78       | 54.00  | -25.22 | AVG      |         |

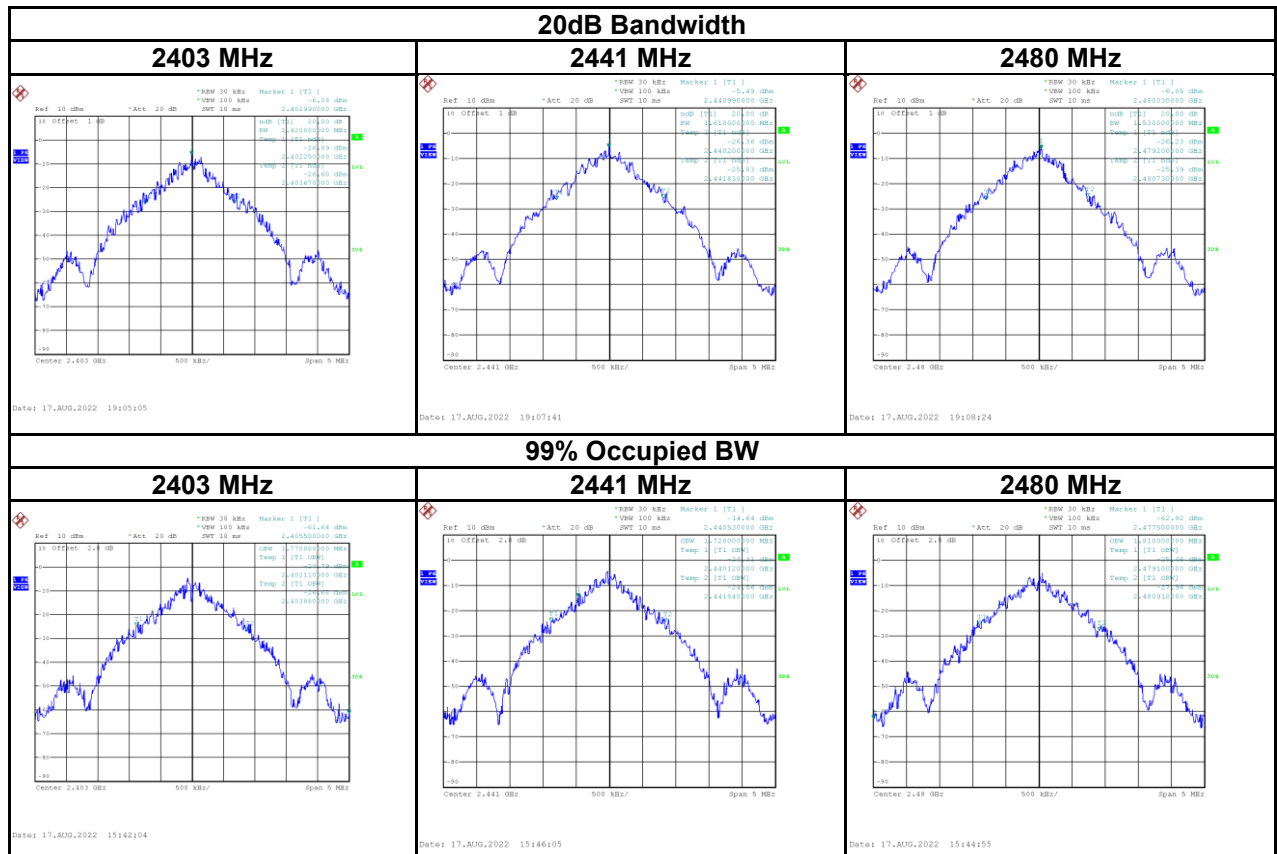
## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) Average Correct Factor =  $20\log(\text{duty cycle}) = 0$

## **APPENDIX D    BANDWIDTH**

|            |     |
|------------|-----|
| Test Mode: | SRD |
|------------|-----|

| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|----------------------|-----------------------|------------------|-------------|
| 2403            | 1.42                 | 1.77                  | 500              | Pass        |
| 2441            | 1.61                 | 1.72                  | 500              | Pass        |
| 2480            | 1.53                 | 1.81                  | 500              | Pass        |



End of Test Report