

FCC Radio Test Report

FCC ID: LDK88752517

Report No. : BTL-FCCP-3-2112T026
Equipment : Video Phone
Model Name : CP-8875
Brand Name : CISCO
Applicant : Cisco Systems Inc
Address : 125 West Tasman Drive
San Jose, CA 95134-1706
United States

Radio Function : WLAN 2.4 GHz

FCC Rule Part(s) : FCC Part15, Subpart C (15.247)
Measurement Procedure(s) : ANSI C63.10-2013

Date of Receipt : 2021/12/6
Date of Test : 2021/12/6 ~ 2022/1/21
Issued Date : 2022/2/7

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

Prepared by :

Eric Lee

Eric Lee, Engineer

Approved by :

Jerry Chuang

Jerry Chuang, Supervisor



BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299

Fax: +886-2-2657-3331

Web: www.newbtl.com

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.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

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.

CONTENTS

| | |
|--|----|
| REVISION HISTORY | 5 |
| 1 SUMMARY OF TEST RESULTS | 6 |
| 1.1 TEST FACILITY | 7 |
| 1.2 MEASUREMENT UNCERTAINTY | 7 |
| 1.3 TEST ENVIRONMENT CONDITIONS | 7 |
| 1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING | 8 |
| 1.5 DUTY CYCLE | 9 |
| 2 GENERAL INFORMATION | 10 |
| 2.1 DESCRIPTION OF EUT | 10 |
| 2.2 TEST MODES | 11 |
| 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 12 |
| 2.4 SUPPORT UNITS | 13 |
| 3 AC POWER LINE CONDUCTED EMISSIONS TEST | 14 |
| 3.1 LIMIT | 14 |
| 3.2 TEST PROCEDURE | 14 |
| 3.3 DEVIATION FROM TEST STANDARD | 14 |
| 3.4 TEST SETUP | 15 |
| 3.5 TEST RESULT | 15 |
| 4 RADIATED EMISSIONS TEST | 16 |
| 4.1 LIMIT | 16 |
| 4.2 TEST PROCEDURE | 17 |
| 4.3 DEVIATION FROM TEST STANDARD | 17 |
| 4.4 TEST SETUP | 17 |
| 4.5 EUT OPERATING CONDITIONS | 18 |
| 4.6 TEST RESULT – BELOW 30 MHZ | 19 |
| 4.7 TEST RESULT – 30 MHZ TO 1 GHZ | 19 |
| 4.8 TEST RESULT – ABOVE 1 GHZ | 19 |
| 5 BANDWIDTH TEST | 20 |
| 5.1 LIMIT | 20 |
| 5.2 TEST PROCEDURE | 20 |
| 5.3 DEVIATION FROM TEST STANDARD | 20 |
| 5.4 TEST SETUP | 20 |
| 5.5 EUT OPERATING CONDITIONS | 20 |
| 5.6 TEST RESULT | 20 |
| 6 OUTPUT POWER TEST | 21 |
| 6.1 LIMIT | 21 |
| 6.2 TEST PROCEDURE | 21 |
| 6.3 DEVIATION FROM TEST STANDARD | 21 |
| 6.4 TEST SETUP | 21 |
| 6.5 EUT OPERATING CONDITIONS | 21 |
| 6.6 TEST RESULT | 21 |
| 7 POWER SPECTRAL DENSITY | 22 |
| 7.1 LIMIT | 22 |
| 7.2 TEST PROCEDURE | 22 |
| 7.3 DEVIATION FROM TEST STANDARD | 22 |
| 7.4 TEST SETUP | 22 |
| 7.5 EUT OPERATING CONDITIONS | 22 |
| 7.6 TEST RESULT | 22 |

| | | |
|------------|---|----|
| 8 | ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST | 23 |
| 8.1 | LIMIT | 23 |
| 8.2 | TEST PROCEDURE | 23 |
| 8.3 | DEVIATION FROM TEST STANDARD | 23 |
| 8.4 | TEST SETUP | 23 |
| 8.5 | EUT OPERATING CONDITIONS | 23 |
| 8.6 | TEST RESULT | 23 |
| 9 | LIST OF MEASURING EQUIPMENTS | 24 |
| 10 | EUT TEST PHOTO | 26 |
| 11 | EUT PHOTOS | 26 |
| APPENDIX A | AC POWER LINE CONDUCTED EMISSIONS | 27 |
| APPENDIX B | RADIATED EMISSIONS - 30 MHZ TO 1 GHZ | 32 |
| APPENDIX C | RADIATED EMISSIONS - ABOVE 1 GHZ | 35 |
| APPENDIX D | BANDWIDTH | 60 |
| APPENDIX E | OUTPUT POWER | 64 |
| APPENDIX F | POWER SPECTRAL DENSITY | 66 |
| APPENDIX G | ANTENNA CONDUCTED SPURIOUS EMISSIONS | 69 |

REVISION HISTORY

| Report No. | Version | Description | Issued Date |
|---------------------|---------|------------------|-------------|
| BTL-FCCP-3-2112T026 | R00 | Original Report. | 2022/2/7 |

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

| FCC Part 15, Subpart C (15.247) | | | | |
|---------------------------------|-------------------------------------|--------------------------|-----------|--------|
| Standard(s) Section | Description | Test Result | Judgement | Remark |
| 15.207 | AC Power Line Conducted Emissions | APPENDIX A | Pass | ----- |
| 15.205 15.209 15.247(d) | Radiated Emissions | APPENDIX B APPENDIX C | Pass | ----- |
| 15.247(a) | Bandwidth | APPENDIX D | Pass | ----- |
| 15.247(b) | Output Power | APPENDIX E | Pass | ----- |
| 15.247(e) | Power Spectral Density | APPENDIX F | Pass | ----- |
| 15.247(d) | Antenna conducted Spurious Emission | APPENDIX G | 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 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

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_{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) |
|-----------|-----------------------------|--------|
| CB15 | 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 | 0.5334 |
| Output power | 0.3669 |
| Power Spectral Density | 0.6591 |
| Conducted Spurious emissions | 0.5416 |
| Conducted Band edges | 0.5348 |

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 | 20 °C, 58 % | AC 120V | Paul Shen |
| Radiated emissions below 1 GHz | 21 °C, 68 % | AC 120V | Eddie Lee |
| Radiated emissions above 1 GHz | 20~21 °C, 66~67 % | AC 120V | Eddie Lee |
| Bandwidth | 24.5 °C, 52 % | AC 120V | Angela Wang |
| Output Power | 24.5 °C, 52 % | AC 120V | Angela Wang |
| Power Spectral Density | 24.5 °C, 52 % | AC 120V | Angela Wang |
| Antenna conducted Spurious Emission | 24.5 °C, 52 % | AC 120V | Angela Wang |

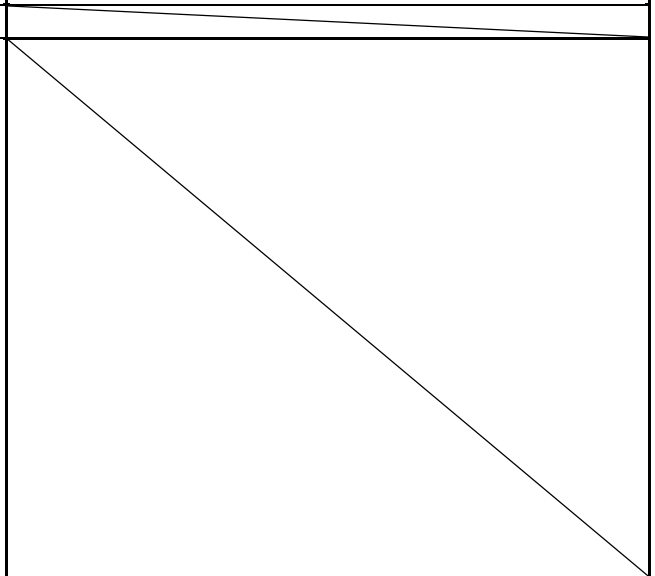
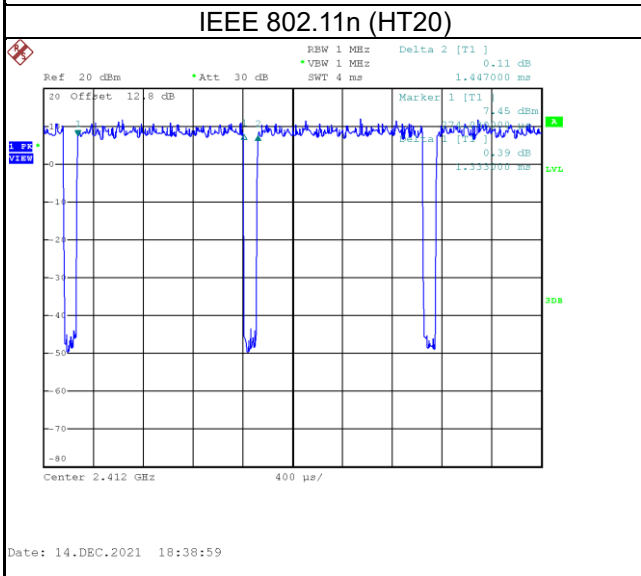
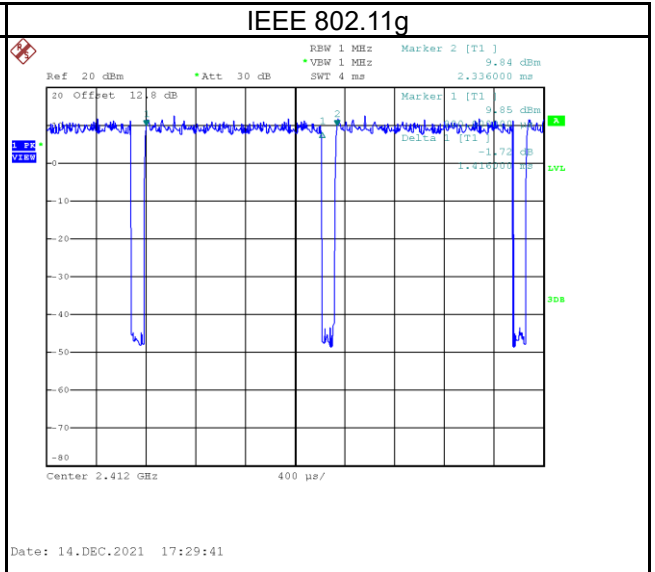
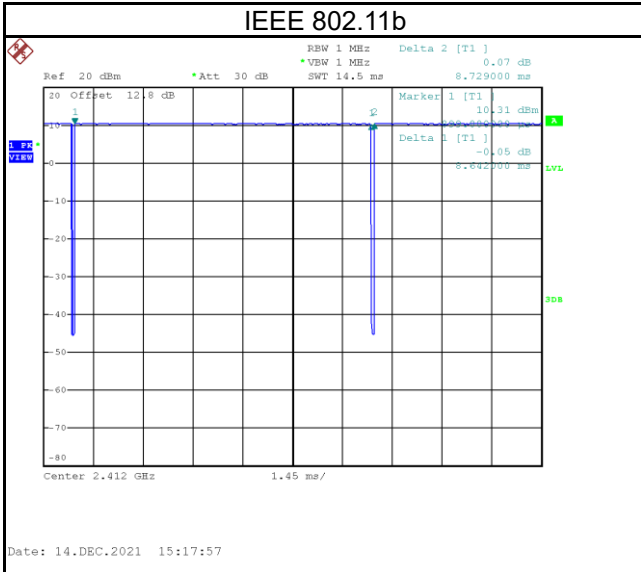
1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

| Test Software | PuTTY V0.62 | | | |
|---------------------|-------------|----------|----------|-----------|
| Mode | 2412 MHz | 2437 MHz | 2462 MHz | Data Rate |
| IEEE 802.11b | 17 | 17 | 17 | 1 Mbps |
| IEEE 802.11g | 13 | 16 | 13 | 6 Mbps |
| IEEE 802.11n (HT20) | 13 | 15 | 13 | MCS 0 |

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 | 10 log(1/Duty Cycle) |
|---------------------|---------|--------------|------------------|----------------------|----------------|----------------------|
| Mode | ON (ms) | Numbers (ON) | On Time (B) (ms) | Period (ON+OFF) (ms) | Duty Cycle (%) | Duty Factor (dB) |
| IEEE 802.11b | 8.642 | 1 | 8.642 | 8.729 | 99.00% | 0.04 |
| IEEE 802.11g | 1.416 | 1 | 1.416 | 2.336 | 60.62% | 2.17 |
| IEEE 802.11n (HT20) | 1.333 | 1 | 1.333 | 1.447 | 92.12% | 0.36 |



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

| | |
|-----------------------|--|
| Equipment | Video Phone |
| Model Name | CP-8875 |
| Brand Name | CISCO |
| Model Difference | N/A |
| Power Source | #1 DC voltage supplied from AC/DC Adapter. (1) DELTA / ADP-50GR B (2) CISCO / AM50U-480A #2 DC Voltage supplied from PoE Adapter. |
| Power Rating | #1 (1) I/P: 100-240V~1.3A, 50-60Hz O/P: 48V $\overline{\text{---}}$ 1.042A, 50.1W MAX. (2) I/P: 100-240V~1.2A, 50-60Hz O/P: 48V $\overline{\text{---}}$ 1.042A, 50.016W #2 I/P: 48V |
| Products Covered | 2 * AC/DC Adapter (1) Delta / ADP-50GR B (2) Cisco / AM50U-480A 1 * Wall bracket 1 * Phone bracket 1 * 6-inch Ethernet cable |
| Operation Band | 2400 MHz ~ 2483.5 MHz |
| Operation Frequency | 2412 MHz ~ 2462 MHz |
| Modulation Technology | IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM |
| Transfer Rate | IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 72.2 Mbps |
| Output Power Max. | IEEE 802.11b: 19.79 dBm (0.0953 W) IEEE 802.11g: 24.38 dBm (0.2742W) IEEE 802.11n (HT20): 24.69 dBm (0.2944 W) |
| Test Model | CP-8875 |
| Sample Status | Engineering Sample |
| EUT Modification(s) | N/A |


NOTE:

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

(2) Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 01 | 2412 | 05 | 2432 | 09 | 2452 |
| 02 | 2417 | 06 | 2437 | 10 | 2457 |
| 03 | 2422 | 07 | 2442 | 11 | 2462 |
| 04 | 2427 | 08 | 2447 | | |

(3) Table for Filed Antenna:

| Ant. | Manufacturer | Part number | Type | Connector | Frequency (MHz) | Gain (dBi) |
|------|---|----------------|------|-----------|-----------------|------------|
| 1 |  INPAQ TECHNOLOGY CO., LTD | WA-P-LB-02-885 | PCB | I-PEX | 2400-2500 | 1.79 |

2.2 TEST MODES

| Test Items | Test mode | Channel | Note |
|--|-----------------------------|----------|----------|
| AC power line conducted emissions | Normal/Idle | - | - |
| Transmitter Radiated Emissions (below 1GHz) | TX Mode_IEEE 802.11b | 06 | - |
| Transmitter Radiated Emissions (above 1GHz) | TX Mode_IEEE 802.11b | 01/11 | Bandedge |
| | TX Mode_IEEE 802.11g | | |
| | TX Mode_IEEE 802.11n (HT20) | | |
| | TX Mode_IEEE 802.11b | 01/06/11 | Harmonic |
| | TX Mode_IEEE 802.11g | | |
| | TX Mode_IEEE 802.11n (HT20) | | |
| Bandwidth & Power Spectral Density & Antenna conducted Spurious Emission | TX Mode_IEEE 802.11b | 01/06/11 | - |
| | TX Mode_IEEE 802.11g | | |
| | TX Mode_IEEE 802.11n (HT20) | | |
| Output Power | TX Mode_IEEE 802.11b | 01/06/11 | - |
| | TX Mode_IEEE 802.11g | | |
| | TX Mode_IEEE 802.11n (HT20) | | |

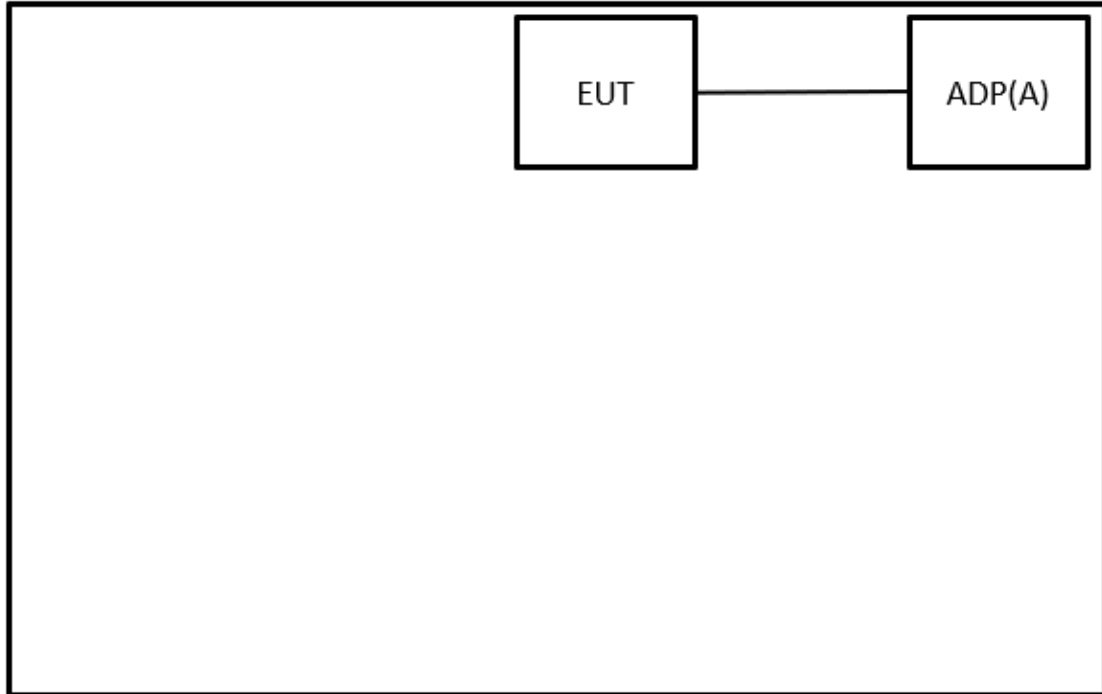
NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.
- (2) All power supply methods are evaluated, the adapter Cisco / AM50U-480A Version is the worst and recorded as below test data.
- (3) Wall bracket and Footstand type are evaluated, but only the worst case (Footstand) is recorded.

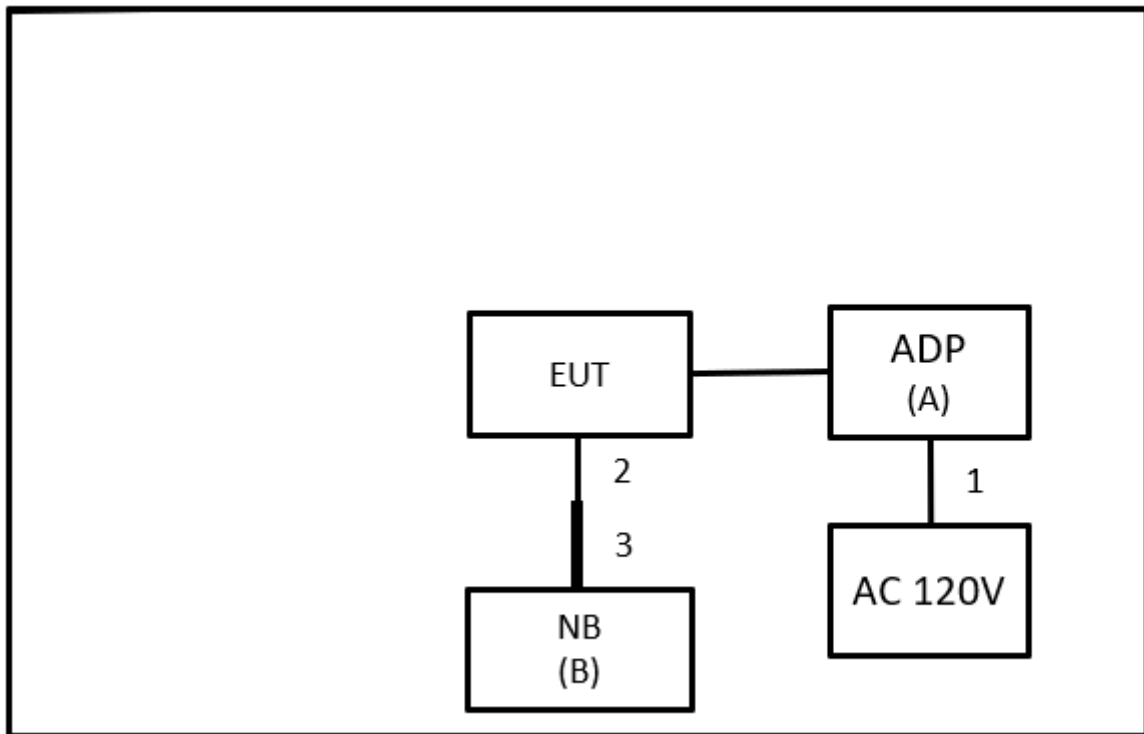
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

| Item | Equipment | Brand | Model No. | Series No. | Remarks |
|------|-----------|-------|------------|------------|----------------------------|
| A | Adapter | CISCO | AM50U-480A | N/A | Supplied by test requester |
| B | 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 | Power Cord | Furnished by test lab. |
| 2 | N/A | N/A | 1.8m | RJ232 to VGA | Supplied by test requester |
| 3 | N/A | N/A | 1.8m | VGA to USB | Furnished by test lab. |

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

| Frequency (MHz) | Limit (dB μ V) | |
|-----------------|--------------------|-----------|
| | 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.

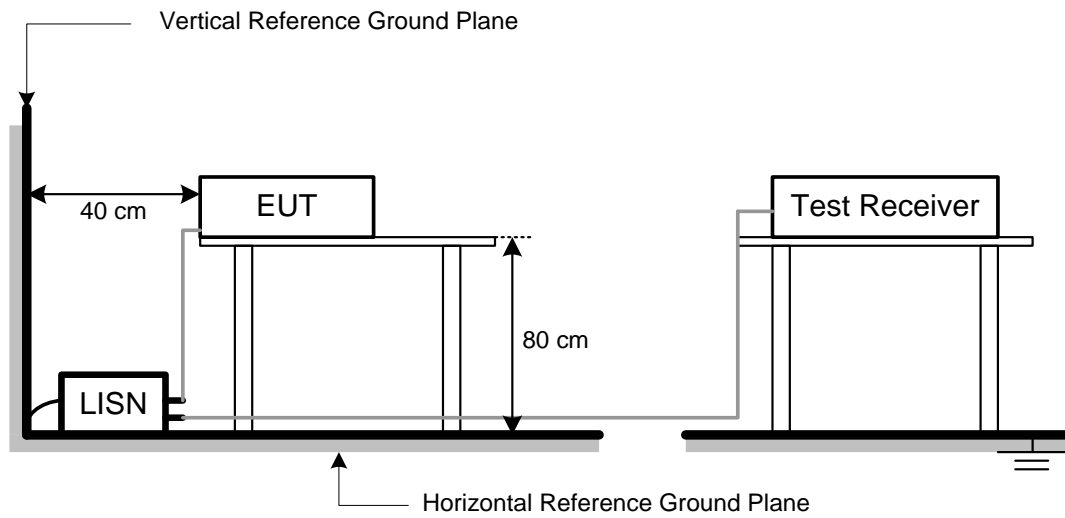
NOTE:

- (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 (Emission in restricted band) | 1MHz / 3MHz for Peak, 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 |

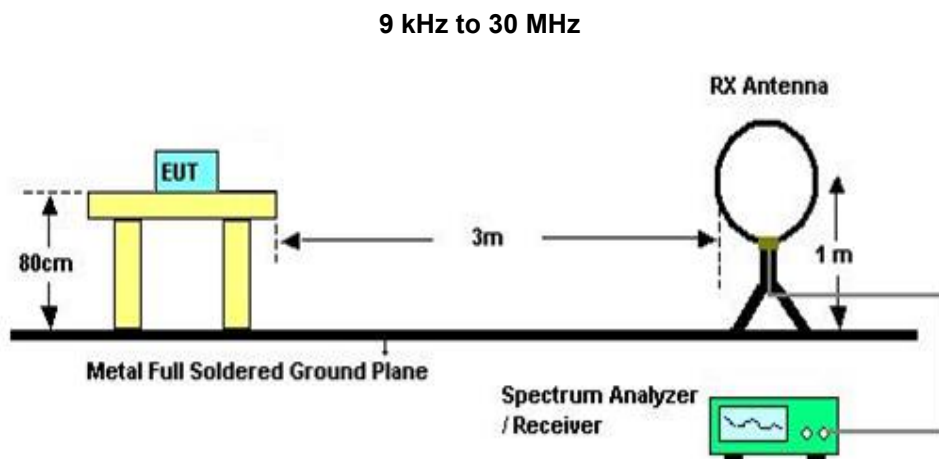
4.2 TEST PROCEDURE

- a. 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)
- b. 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)
- c. 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.
- d. 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).
- e. 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.
- f. 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.
- g. 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)
- h. 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)
- i. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

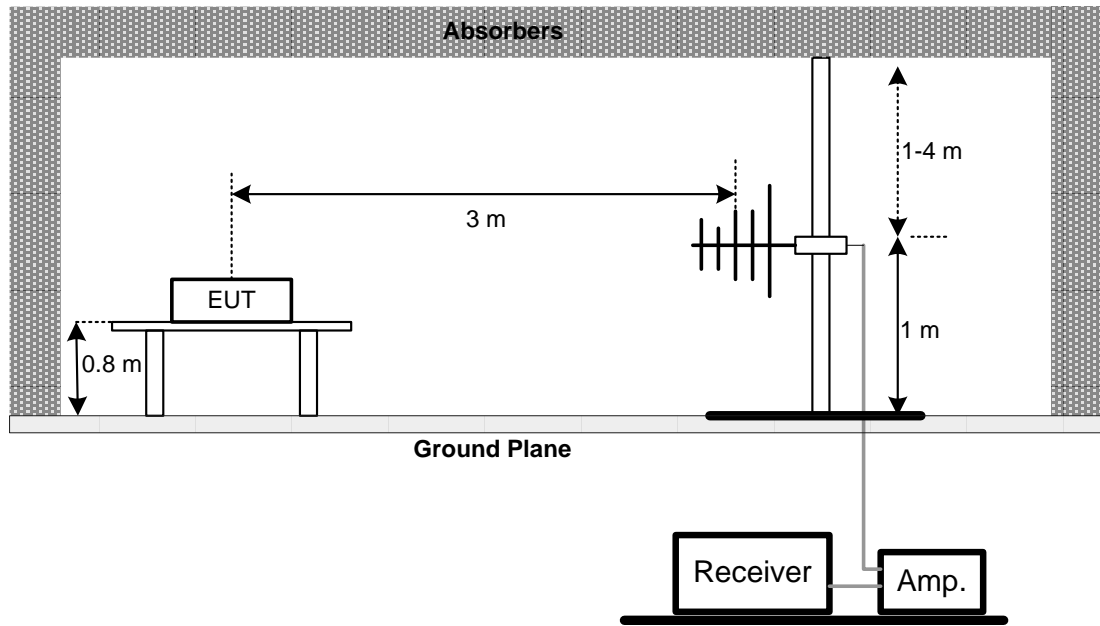
4.3 DEVIATION FROM TEST STANDARD

No deviation.

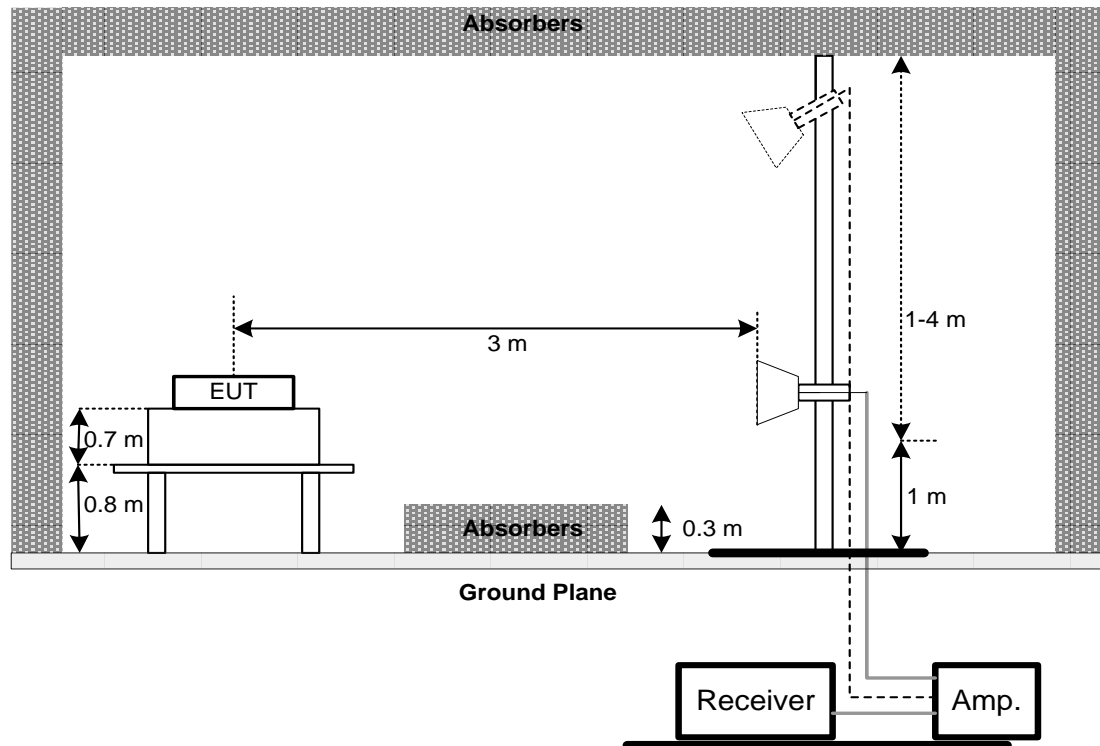
4.4 TEST SETUP



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 – 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 BANDWIDTH TEST

5.1 LIMIT

| FCC Part15, Subpart C (15.247) | | |
|--------------------------------|----------------|---------|
| Section | Test Item | Limit |
| 15.247(a) | 6 dB Bandwidth | 500 kHz |

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 TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 OUTPUT POWER TEST

6.1 LIMIT

| FCC Part15, Subpart C (15.247) | | |
|--------------------------------|----------------------|-----------------|
| Section | Test Item | Limit |
| 15.247(b) | Maximum Output Power | 1 Watt or 30dBm |

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.
- c. Subclause 11.9.1.1 of ANSI C63.10 is applied. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX E.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

| FCC Part15, Subpart C (15.247) | | |
|--------------------------------|------------------------|-------------------------|
| Section | Test Item | Limit |
| 15.247(e) | Power Spectral Density | 8 dBm (in any 3 kHz) |

7.2 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 = 3 kHz, VBW = 10 kHz, Sweep time = Auto.

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX F.

8 ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST

8.1 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.

8.2 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 = 100 kHz, VBW=300 kHz, Sweep time = Auto.
- c. Offset = antenna gain + cable loss.

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULT

Please refer to the APPENDIX G.

9 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 | 101339 | 2021/3/10 | 2022/3/9 |
| 2 | Test Cable | EMCI | EMCCFD300-BM-BMR-6000 | 170714 | 2021/6/7 | 2022/6/6 |
| 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 | EMC02325 | 980217 | 2021/4/8 | 2022/4/7 |
| 2 | Preamplifier | EMCI | EMC012645B | 980222 | 2021/4/8 | 2022/4/7 |
| 3 | Preamplifier | EMCI | EMC001340 | 980555 | 2021/4/8 | 2022/4/7 |
| 4 | Test Cable | EMCI | EMC104-SM-1000 | 180809 | 2021/4/8 | 2022/4/7 |
| 5 | Test Cable | EMCI | EMC104-SM-SM-3000 | 151205 | 2021/4/8 | 2022/4/7 |
| 6 | Test Cable | EMCI | EMC-SM-SM-7000 | 180408 | 2021/4/8 | 2022/4/7 |
| 7 | MXE EMI Receiver | Agilent | N9038A | MY56400087 | 2021/5/27 | 2022/5/26 |
| 8 | Signal Analyzer | Agilent | N9010A | MY56480554 | 2021/8/25 | 2022/8/24 |
| 9 | Loop Ant | Electro-Metrics | EMCI-LPA600 | 274 | 2021/6/1 | 2022/5/31 |
| 10 | Horn Ant | SCHWARZBECK | BBHA 9120D | 9120D-1342 | 2021/6/2 | 2022/6/1 |
| 11 | Horn Ant | Schwarzbeck | BBHA 9170 | 340 | 2021/7/9 | 2022/7/8 |
| 12 | Trilog-Broadband Antenna | Schwarzbeck | VULB 9168 | 9168-352 | 2021/8/11 | 2022/8/10 |
| 13 | 5dB Attenuator | EMCI | EMCI-N-6-05 | AT-N0625 | 2021/8/11 | 2022/8/10 |
| 14 | 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 | FSP 30 | 100854 | 2021/4/16 | 2022/4/15 |

| Output Power | | | | | | |
|--------------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Power Meter | Anritsu | ML2495A | 1128008 | 2021/5/26 | 2022/5/25 |
| 2 | Power Sensor | Anritsu | MA2411B | 1126001 | 2021/5/26 | 2022/5/25 |

| Power Spectral Density | | | | | | |
|-------------------------------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Spectrum Analyzer | R&S | FSP 30 | 100854 | 2021/4/16 | 2022/4/15 |

| Antenna conducted Spurious Emission | | | | | | |
|--|-------------------|--------------|----------|------------|-----------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Spectrum Analyzer | R&S | FSP 30 | 100854 | 2021/4/16 | 2022/4/15 |

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

10 EUT TEST PHOTO

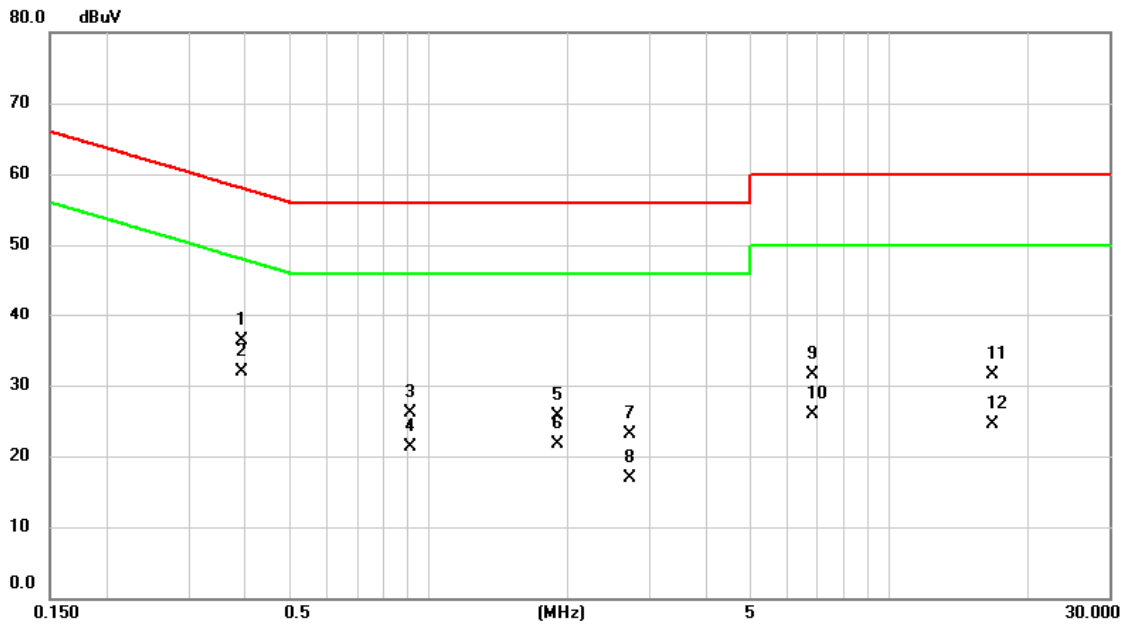
Please refer to document Appendix No.: TP-2112T026-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2112T026-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

| | | | |
|----------------|--------|-------------|------------|
| Test Mode | Normal | Tested Date | 2021/12/17 |
| Test Frequency | - | Phase | Line |

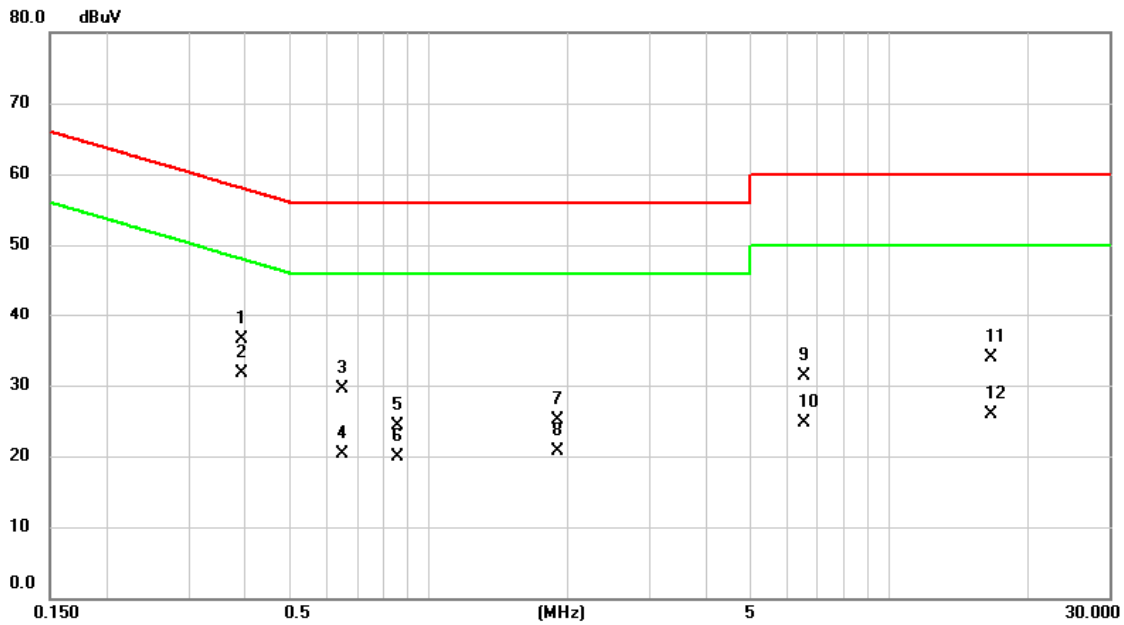


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.3930 | 26.60 | 9.72 | 36.32 | 58.00 | -21.68 | QP | |
| 2 | * | 0.3930 | 22.18 | 9.72 | 31.90 | 48.00 | -16.10 | AVG | |
| 3 | | 0.9105 | 16.35 | 9.74 | 26.09 | 56.00 | -29.91 | QP | |
| 4 | | 0.9105 | 11.53 | 9.74 | 21.27 | 46.00 | -24.73 | AVG | |
| 5 | | 1.9005 | 15.89 | 9.77 | 25.66 | 56.00 | -30.34 | QP | |
| 6 | | 1.9005 | 11.88 | 9.77 | 21.65 | 46.00 | -24.35 | AVG | |
| 7 | | 2.7173 | 13.33 | 9.79 | 23.12 | 56.00 | -32.88 | QP | |
| 8 | | 2.7173 | 7.17 | 9.79 | 16.96 | 46.00 | -29.04 | AVG | |
| 9 | | 6.8303 | 21.50 | 10.03 | 31.53 | 60.00 | -28.47 | QP | |
| 10 | | 6.8303 | 15.79 | 10.03 | 25.82 | 50.00 | -24.18 | AVG | |
| 11 | | 16.7460 | 21.40 | 10.20 | 31.60 | 60.00 | -28.40 | QP | |
| 12 | | 16.7460 | 14.36 | 10.20 | 24.56 | 50.00 | -25.44 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------|-------------|------------|
| Test Mode | Normal | Tested Date | 2021/12/17 |
| Test Frequency | - | Phase | Neutral |

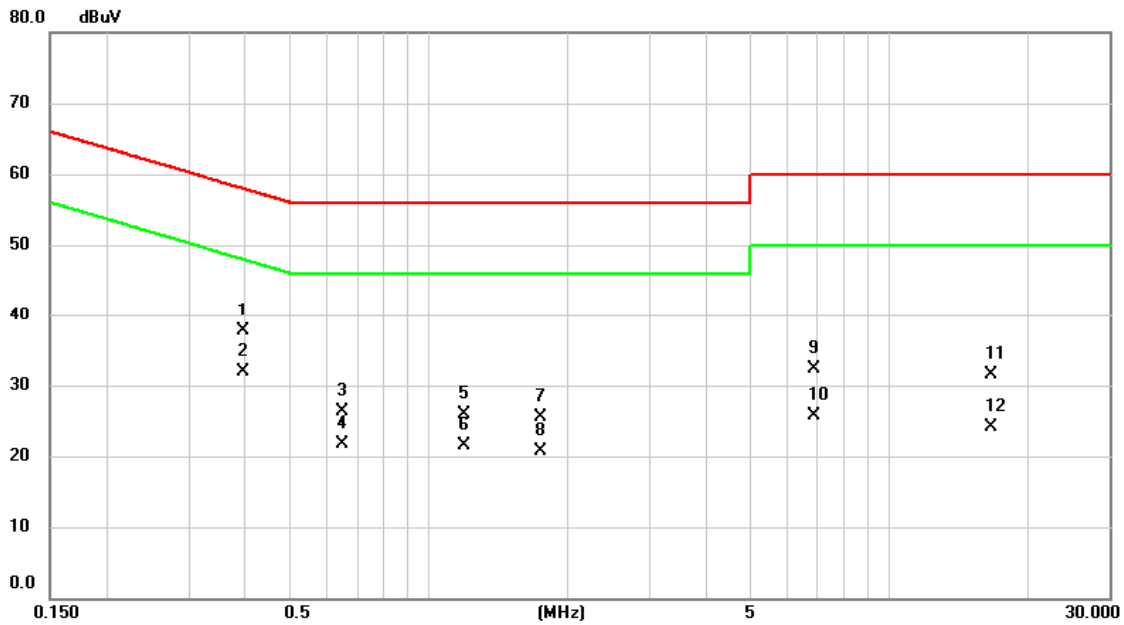


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.3930 | 26.86 | 9.73 | 36.59 | 58.00 | -21.41 | QP | |
| 2 | * | 0.3930 | 21.92 | 9.73 | 31.65 | 48.00 | -16.35 | AVG | |
| 3 | | 0.6495 | 19.85 | 9.74 | 29.59 | 56.00 | -26.41 | QP | |
| 4 | | 0.6495 | 10.55 | 9.74 | 20.29 | 46.00 | -25.71 | AVG | |
| 5 | | 0.8565 | 14.56 | 9.75 | 24.31 | 56.00 | -31.69 | QP | |
| 6 | | 0.8565 | 10.17 | 9.75 | 19.92 | 46.00 | -26.08 | AVG | |
| 7 | | 1.8983 | 15.24 | 9.78 | 25.02 | 56.00 | -30.98 | QP | |
| 8 | | 1.8983 | 10.92 | 9.78 | 20.70 | 46.00 | -25.30 | AVG | |
| 9 | | 6.5670 | 21.25 | 10.04 | 31.29 | 60.00 | -28.71 | QP | |
| 10 | | 6.5670 | 14.68 | 10.04 | 24.72 | 50.00 | -25.28 | AVG | |
| 11 | | 16.5750 | 23.53 | 10.29 | 33.82 | 60.00 | -26.18 | QP | |
| 12 | | 16.5750 | 15.56 | 10.29 | 25.85 | 50.00 | -24.15 | AVG | |

REMARKS:

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

| | | | |
|----------------|------|-------------|------------|
| Test Mode | Idle | Tested Date | 2021/12/17 |
| Test Frequency | - | Phase | Line |

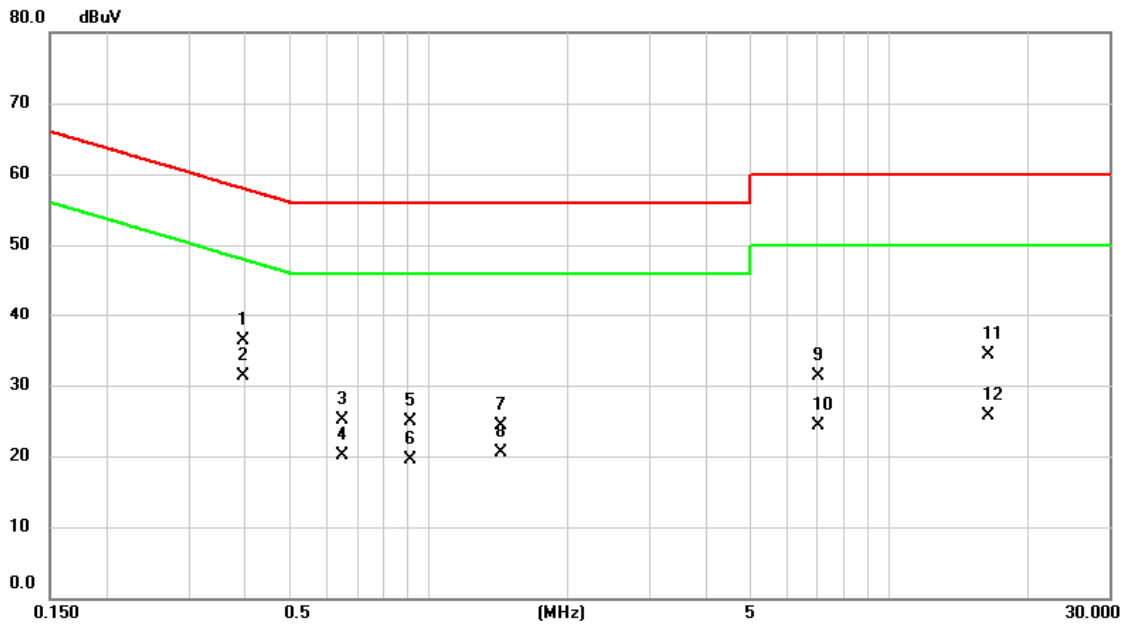


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.3952 | 28.03 | 9.72 | 37.75 | 57.95 | -20.20 | QP | |
| 2 | * | 0.3952 | 22.21 | 9.72 | 31.93 | 47.95 | -16.02 | AVG | |
| 3 | | 0.6495 | 16.52 | 9.73 | 26.25 | 56.00 | -29.75 | QP | |
| 4 | | 0.6495 | 11.97 | 9.73 | 21.70 | 46.00 | -24.30 | AVG | |
| 5 | | 1.1962 | 16.17 | 9.74 | 25.91 | 56.00 | -30.09 | QP | |
| 6 | | 1.1962 | 11.83 | 9.74 | 21.57 | 46.00 | -24.43 | AVG | |
| 7 | | 1.7453 | 15.74 | 9.76 | 25.50 | 56.00 | -30.50 | QP | |
| 8 | | 1.7453 | 11.04 | 9.76 | 20.80 | 46.00 | -25.20 | AVG | |
| 9 | | 6.8550 | 22.24 | 10.03 | 32.27 | 60.00 | -27.73 | QP | |
| 10 | | 6.8550 | 15.69 | 10.03 | 25.72 | 50.00 | -24.28 | AVG | |
| 11 | | 16.6718 | 21.32 | 10.20 | 31.52 | 60.00 | -28.48 | QP | |
| 12 | | 16.6718 | 13.87 | 10.20 | 24.07 | 50.00 | -25.93 | AVG | |

REMARKS:

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

| | | | |
|----------------|------|-------------|------------|
| Test Mode | Idle | Tested Date | 2021/12/17 |
| Test Frequency | - | Phase | Neutral |



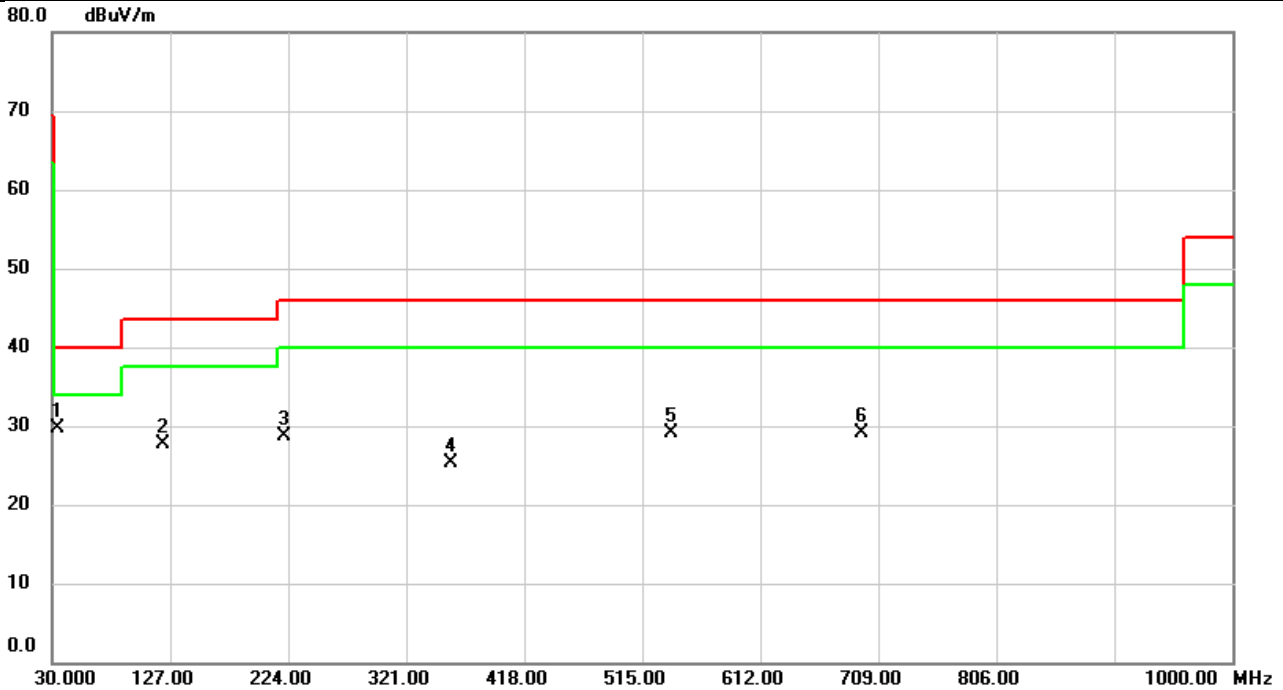
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.3952 | 26.57 | 9.73 | 36.30 | 57.95 | -21.65 | QP | |
| 2 | * | 0.3952 | 21.59 | 9.73 | 31.32 | 47.95 | -16.63 | AVG | |
| 3 | | 0.6517 | 15.36 | 9.74 | 25.10 | 56.00 | -30.90 | QP | |
| 4 | | 0.6517 | 10.41 | 9.74 | 20.15 | 46.00 | -25.85 | AVG | |
| 5 | | 0.9127 | 15.09 | 9.75 | 24.84 | 56.00 | -31.16 | QP | |
| 6 | | 0.9127 | 9.67 | 9.75 | 19.42 | 46.00 | -26.58 | AVG | |
| 7 | | 1.4303 | 14.53 | 9.76 | 24.29 | 56.00 | -31.71 | QP | |
| 8 | | 1.4303 | 10.67 | 9.76 | 20.43 | 46.00 | -25.57 | AVG | |
| 9 | | 7.0440 | 21.15 | 10.06 | 31.21 | 60.00 | -28.79 | QP | |
| 10 | | 7.0440 | 14.28 | 10.06 | 24.34 | 50.00 | -25.66 | AVG | |
| 11 | | 16.3544 | 23.95 | 10.28 | 34.23 | 60.00 | -25.77 | QP | |
| 12 | | 16.3544 | 15.42 | 10.28 | 25.70 | 50.00 | -24.30 | 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 | IEEE 802.11b | Test Date | 2022/1/21 |
| Test Frequency | 2437MHz | Polarization | Vertical |
| Temp | 21°C | Hum. | 68% |

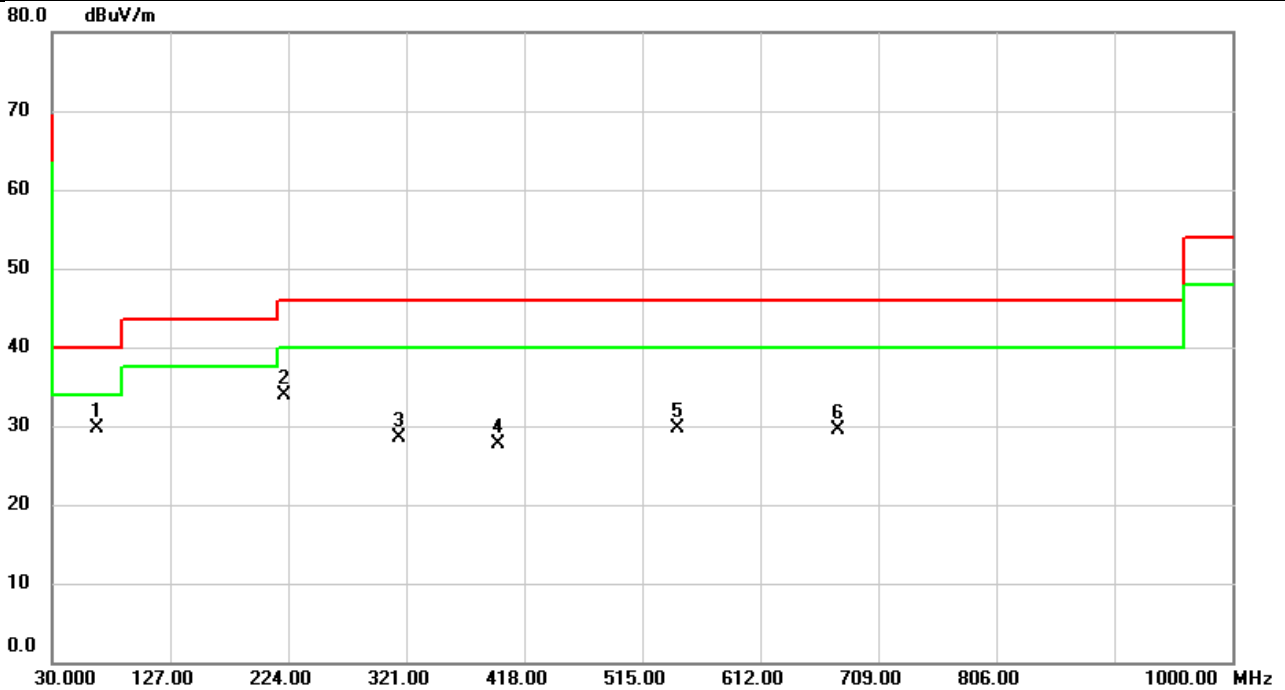


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | * | 34.4297 | 39.52 | -9.73 | 29.79 | 40.00 | -10.21 | peak | |
| 2 | | 121.5680 | 38.47 | -10.79 | 27.68 | 43.50 | -15.82 | peak | |
| 3 | | 220.2493 | 40.82 | -12.21 | 28.61 | 46.00 | -17.39 | peak | |
| 4 | | 357.9570 | 32.43 | -7.06 | 25.37 | 46.00 | -20.63 | peak | |
| 5 | | 539.3470 | 32.00 | -2.86 | 29.14 | 46.00 | -16.86 | peak | |
| 6 | | 695.6140 | 29.06 | 0.05 | 29.11 | 46.00 | -16.89 | peak | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11b | Test Date | 2022/1/21 |
| Test Frequency | 2437MHz | Polarization | Horizontal |
| Temp | 21°C | Hum. | 68% |



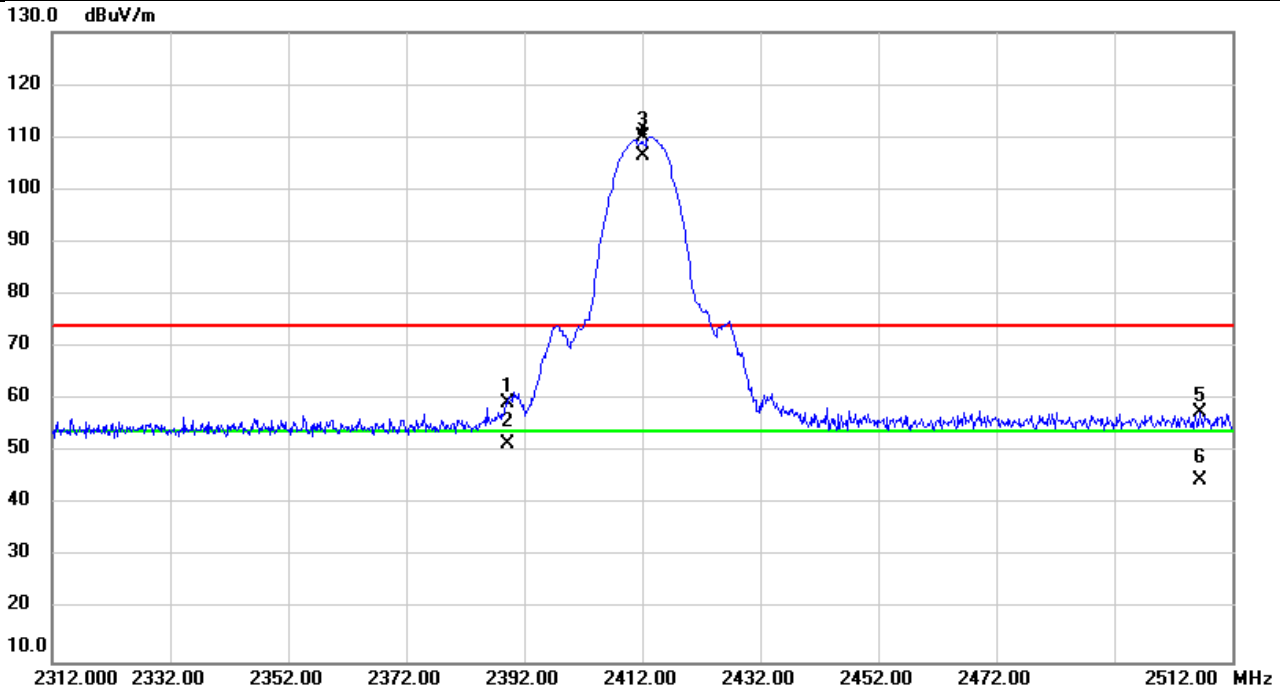
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | * | 67.5066 | 40.11 | -10.50 | 29.61 | 40.00 | -10.39 | peak | |
| 2 | | 220.5080 | 46.14 | -12.21 | 33.93 | 46.00 | -12.07 | peak | |
| 3 | | 314.8243 | 36.37 | -7.95 | 28.42 | 46.00 | -17.58 | peak | |
| 4 | | 396.0780 | 33.69 | -6.00 | 27.69 | 46.00 | -18.31 | peak | |
| 5 | | 543.8736 | 32.42 | -2.77 | 29.65 | 46.00 | -16.35 | peak | |
| 6 | | 676.0200 | 29.59 | -0.09 | 29.50 | 46.00 | -16.50 | 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 | IEEE 802.11b | Test Date | 2021/12/16 |
| Test Frequency | 2412MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

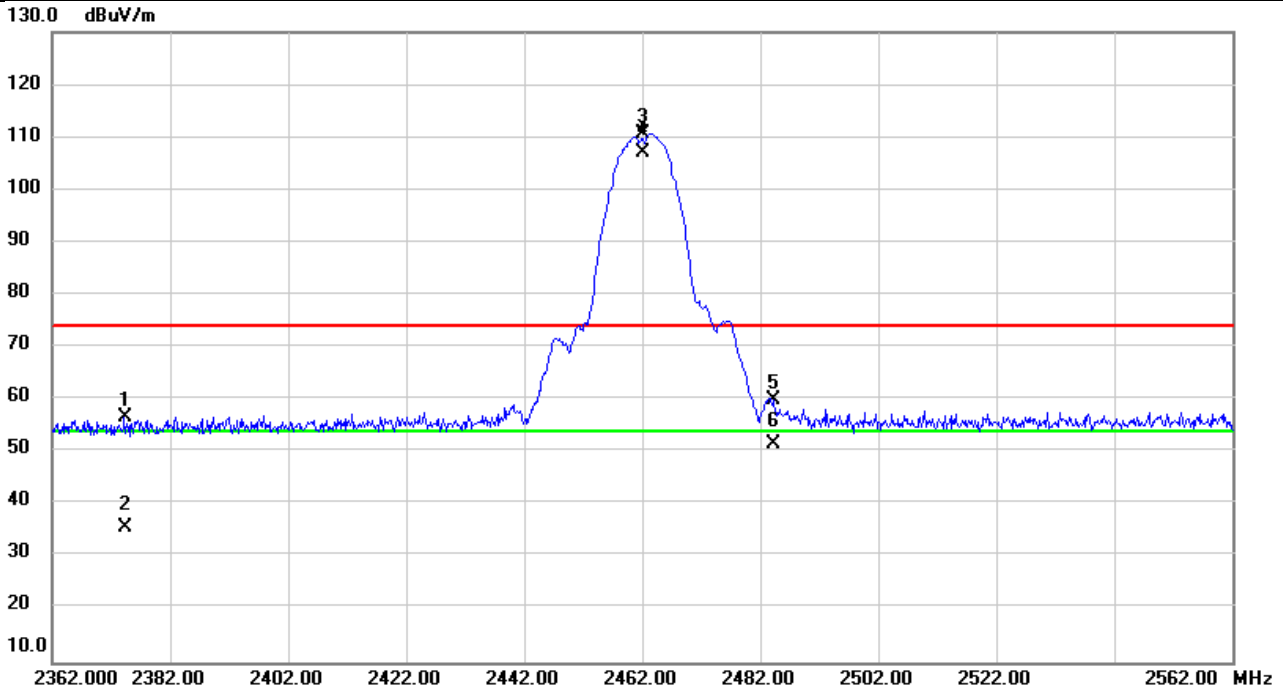


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2389.247 | 28.21 | 31.21 | 59.42 | 74.00 | -14.58 | peak | |
| 2 | | 2389.247 | 20.33 | 31.21 | 51.54 | 54.00 | -2.46 | AVG | |
| 3 | X | 2412.000 | 78.85 | 31.28 | 110.13 | 74.00 | 36.13 | peak | NoLimit |
| 4 | * | 2412.000 | 75.11 | 31.28 | 106.39 | 54.00 | 52.39 | AVG | NoLimit |
| 5 | | 2506.513 | 25.95 | 31.59 | 57.54 | 74.00 | -16.46 | peak | |
| 6 | | 2506.513 | 13.16 | 31.59 | 44.75 | 54.00 | -9.25 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11b | Test Date | 2021/12/16 |
| Test Frequency | 2462MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

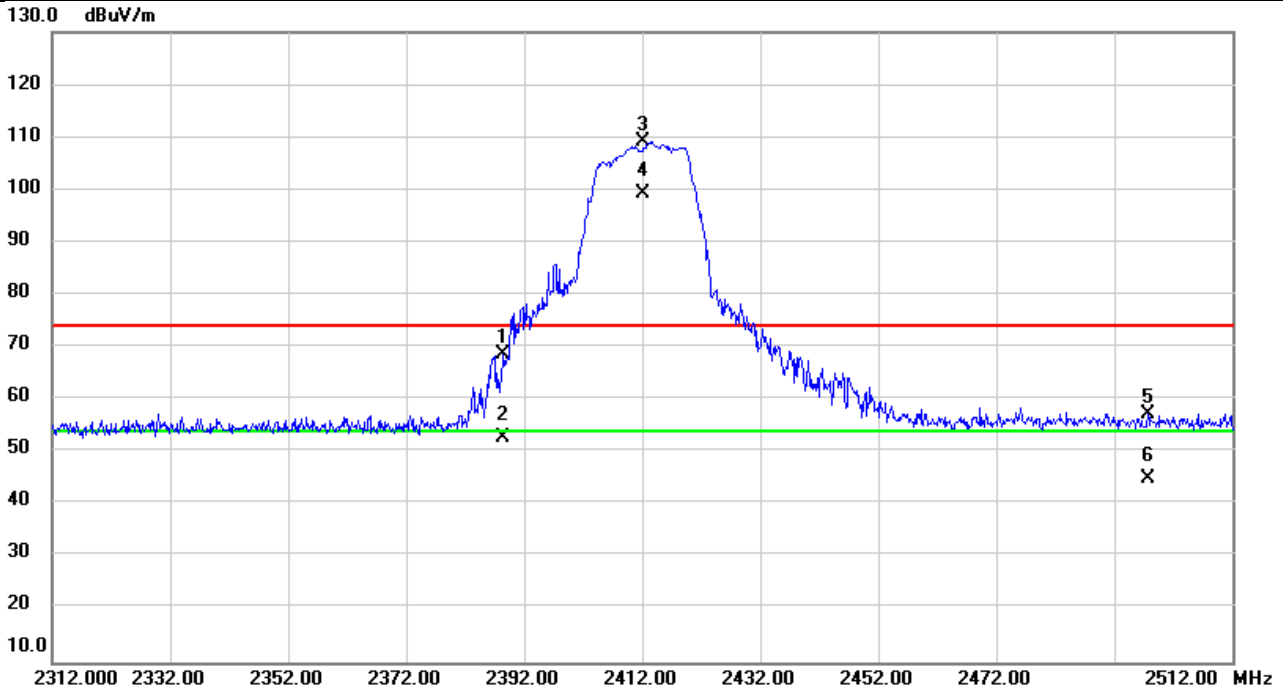


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2374.267 | 25.50 | 31.16 | 56.66 | 74.00 | -17.34 | peak | |
| 2 | | 2374.267 | 4.46 | 31.16 | 35.62 | 54.00 | -18.38 | AVG | |
| 3 | X | 2462.000 | 79.30 | 31.44 | 110.74 | 74.00 | 36.74 | peak | NoLimit |
| 4 | * | 2462.000 | 75.72 | 31.44 | 107.16 | 54.00 | 53.16 | AVG | NoLimit |
| 5 | | 2484.160 | 28.34 | 31.52 | 59.86 | 74.00 | -14.14 | peak | |
| 6 | | 2484.160 | 19.90 | 31.52 | 51.42 | 54.00 | -2.58 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11g | Test Date | 2021/12/28 |
| Test Frequency | 2412MHz | Polarization | Vertical |
| Temp | 21°C | Hum. | 67% |

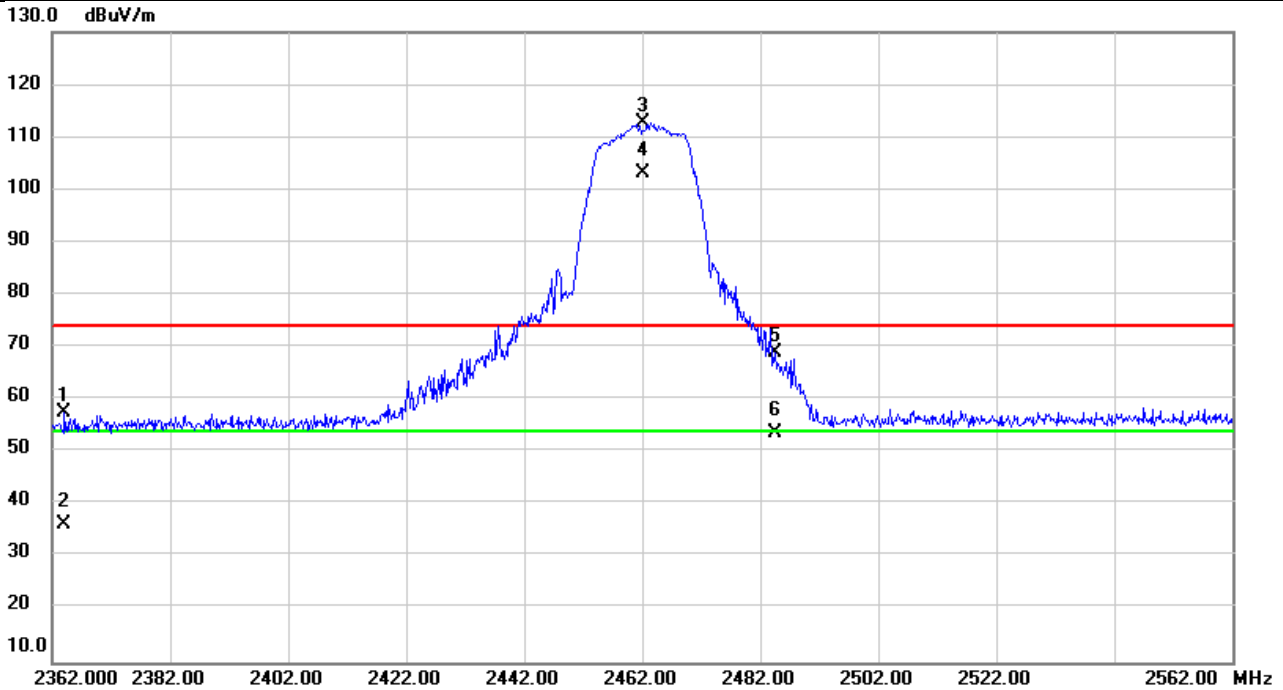


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2388.333 | 37.40 | 31.21 | 68.61 | 74.00 | -5.39 | peak | |
| 2 | | 2388.333 | 21.63 | 31.21 | 52.84 | 54.00 | -1.16 | AVG | |
| 3 | X | 2412.000 | 77.76 | 31.28 | 109.04 | 74.00 | 35.04 | peak | NoLimit |
| 4 | * | 2412.000 | 68.10 | 31.28 | 99.38 | 54.00 | 45.38 | AVG | NoLimit |
| 5 | | 2497.660 | 25.83 | 31.56 | 57.39 | 74.00 | -16.61 | peak | |
| 6 | | 2497.660 | 13.36 | 31.56 | 44.92 | 54.00 | -9.08 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11g | Test Date | 2021/12/28 |
| Test Frequency | 2462MHz | Polarization | Vertical |
| Temp | 21°C | Hum. | 67% |

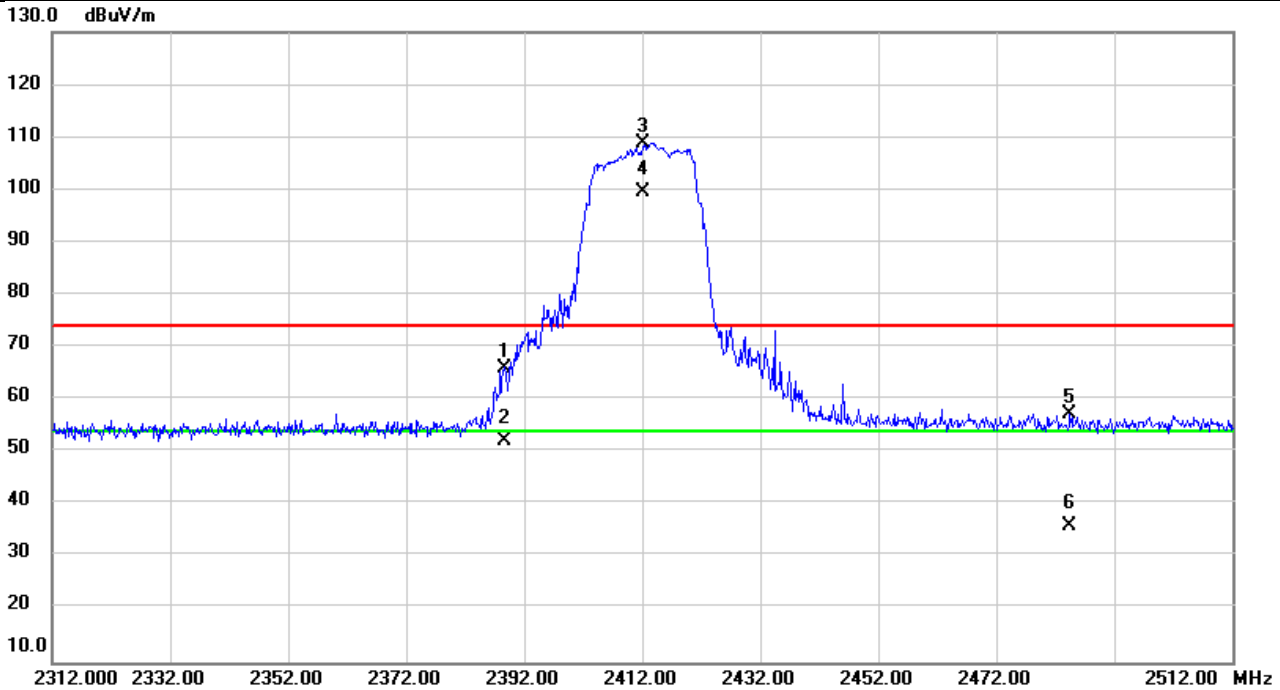


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2364.053 | 26.48 | 31.13 | 57.61 | 74.00 | -16.39 | peak | |
| 2 | | 2364.053 | 5.03 | 31.13 | 36.16 | 54.00 | -17.84 | AVG | |
| 3 | X | 2462.000 | 81.20 | 31.44 | 112.64 | 74.00 | 38.64 | peak | NoLimit |
| 4 | * | 2462.000 | 71.73 | 31.44 | 103.17 | 54.00 | 49.17 | AVG | NoLimit |
| 5 | | 2484.433 | 37.44 | 31.52 | 68.96 | 74.00 | -5.04 | peak | |
| 6 | | 2484.433 | 22.07 | 31.52 | 53.59 | 54.00 | -0.41 | AVG | |

REMARKS:

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

| | | | |
|----------------|---------------------|--------------|------------|
| Test Mode | IEEE 802.11n (HT20) | Test Date | 2021/12/28 |
| Test Frequency | 2412MHz | Polarization | Vertical |
| Temp | 21°C | Hum. | 67% |

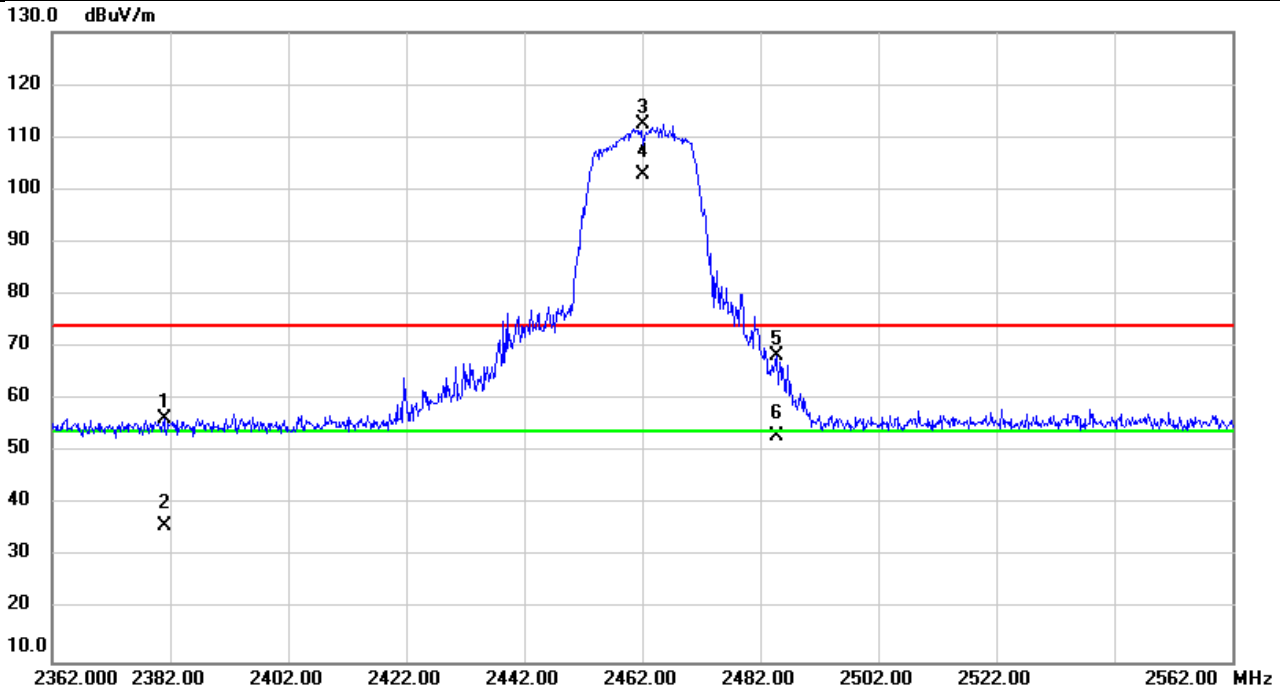


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2388.587 | 34.89 | 31.21 | 66.10 | 74.00 | -7.90 | peak | |
| 2 | | 2388.587 | 20.84 | 31.21 | 52.05 | 54.00 | -1.95 | AVG | |
| 3 | X | 2412.000 | 77.61 | 31.28 | 108.89 | 74.00 | 34.89 | peak | NoLimit |
| 4 | * | 2412.000 | 68.14 | 31.28 | 99.42 | 54.00 | 45.42 | AVG | NoLimit |
| 5 | | 2484.527 | 25.61 | 31.52 | 57.13 | 74.00 | -16.87 | peak | |
| 6 | | 2484.527 | 4.42 | 31.52 | 35.94 | 54.00 | -18.06 | AVG | |

REMARKS:

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

| | | | |
|----------------|---------------------|--------------|------------|
| Test Mode | IEEE 802.11n (HT20) | Test Date | 2021/12/28 |
| Test Frequency | 2462MHz | Polarization | Vertical |
| Temp | 21°C | Hum. | 67% |

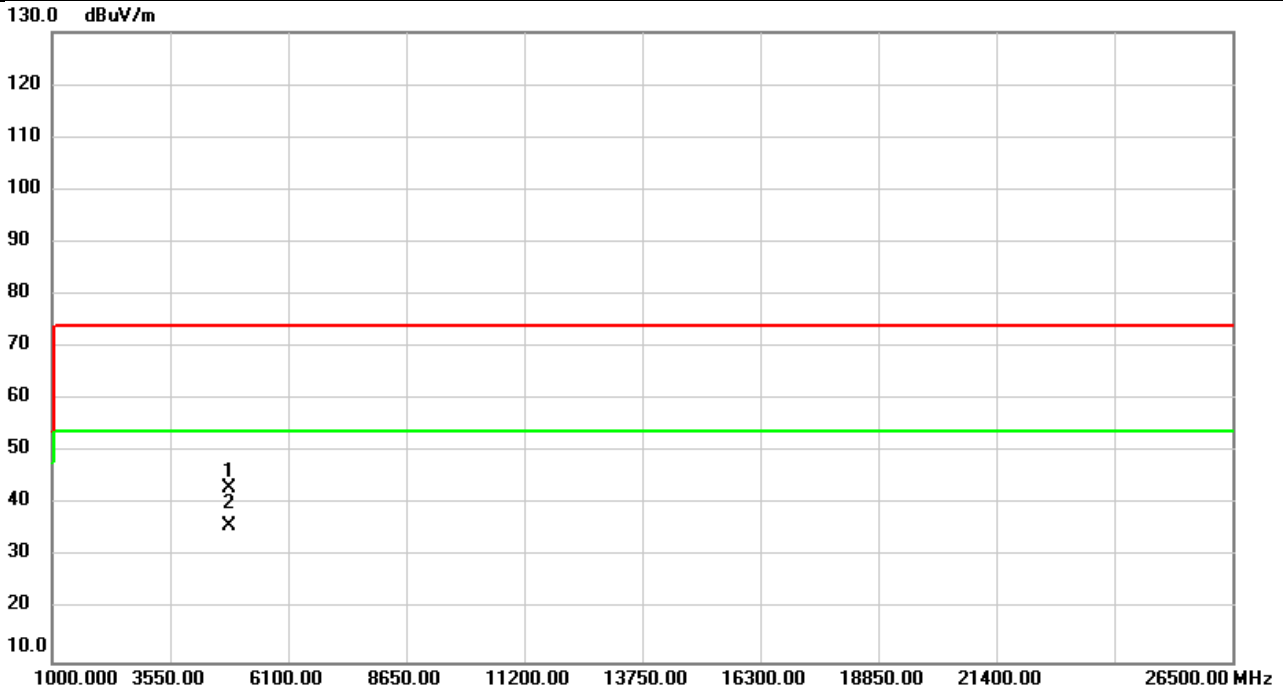


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2380.947 | 25.30 | 31.18 | 56.48 | 74.00 | -17.52 | peak | |
| 2 | | 2380.947 | 4.76 | 31.18 | 35.94 | 54.00 | -18.06 | AVG | |
| 3 | X | 2462.000 | 81.16 | 31.44 | 112.60 | 74.00 | 38.60 | peak | NoLimit |
| 4 | * | 2462.000 | 71.27 | 31.44 | 102.71 | 54.00 | 48.71 | AVG | NoLimit |
| 5 | | 2484.793 | 36.86 | 31.52 | 68.38 | 74.00 | -5.62 | peak | |
| 6 | | 2484.793 | 21.55 | 31.52 | 53.07 | 54.00 | -0.93 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11b | Test Date | 2021/12/16 |
| Test Frequency | 2412MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

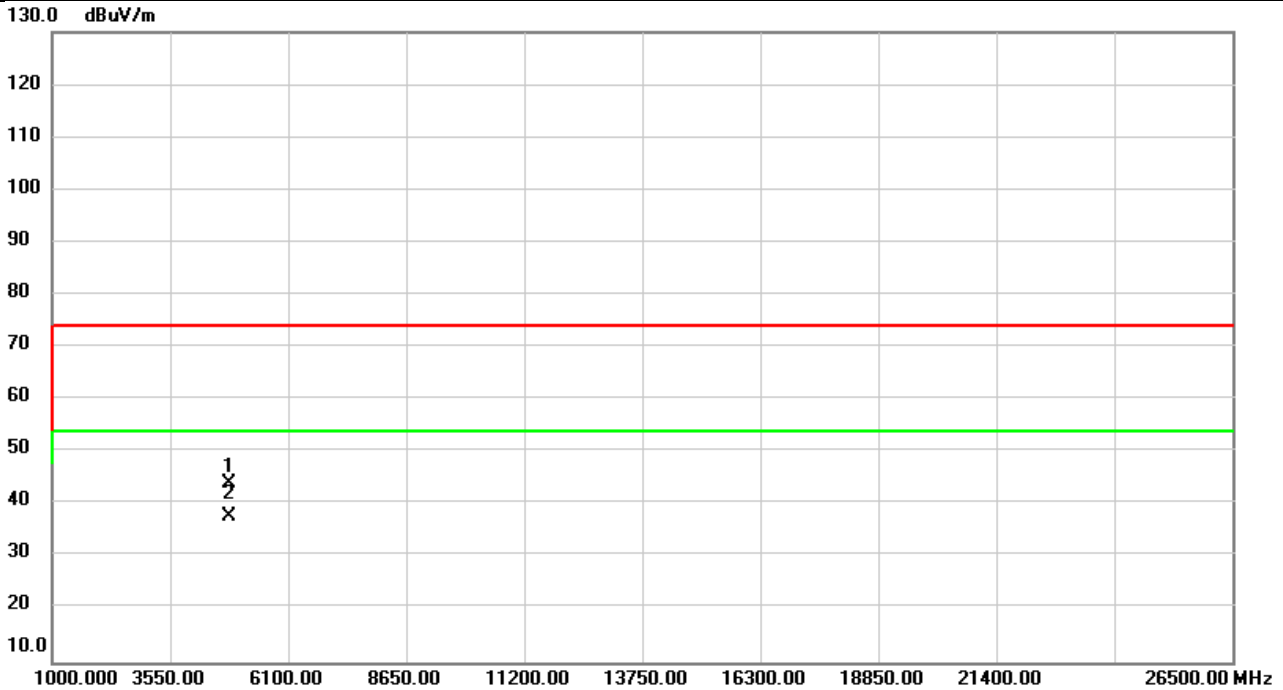


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4824.000 | 54.94 | -11.64 | 43.30 | 74.00 | -30.70 | peak | |
| 2 | * | 4824.000 | 47.59 | -11.64 | 35.95 | 54.00 | -18.05 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11b | Test Date | 2021/12/16 |
| Test Frequency | 2412MHz | Polarization | Horizontal |
| Temp | 20°C | Hum. | 66% |

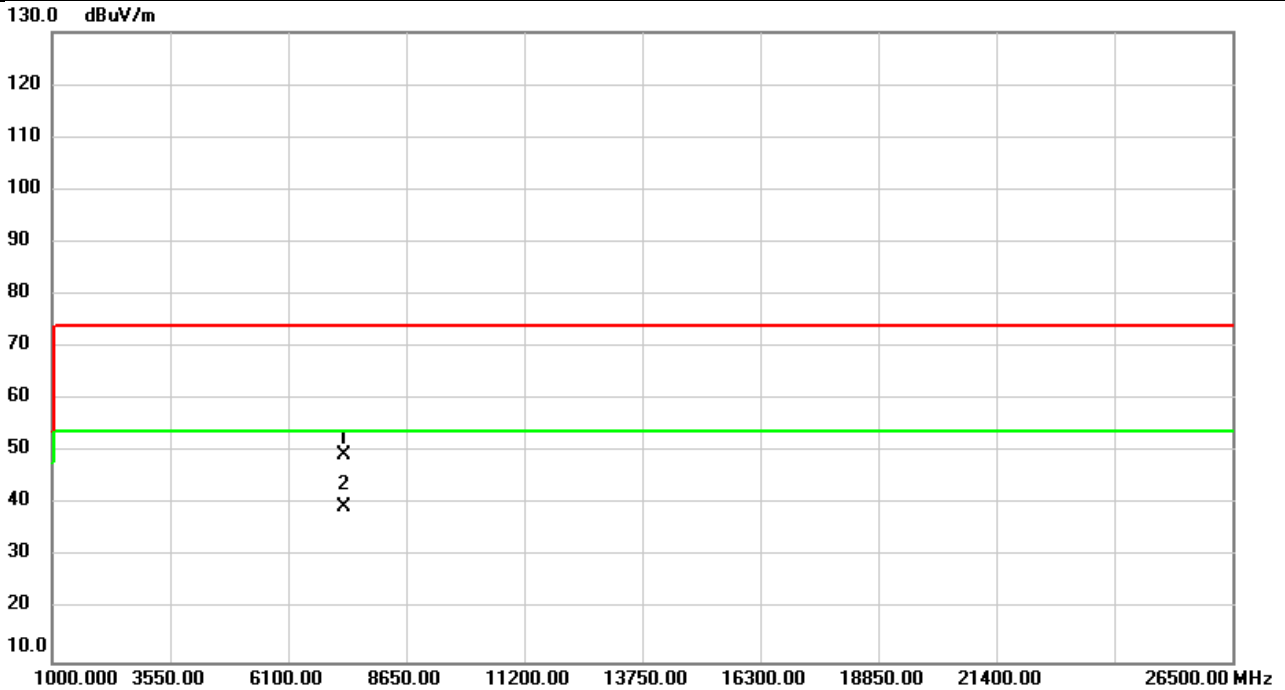


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 4824.000 | 55.59 | -11.64 | 43.95 | 74.00 | -30.05 | peak | |
| 2 | * | 4824.000 | 49.33 | -11.64 | 37.69 | 54.00 | -16.31 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11b | Test Date | 2021/12/16 |
| Test Frequency | 2437MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

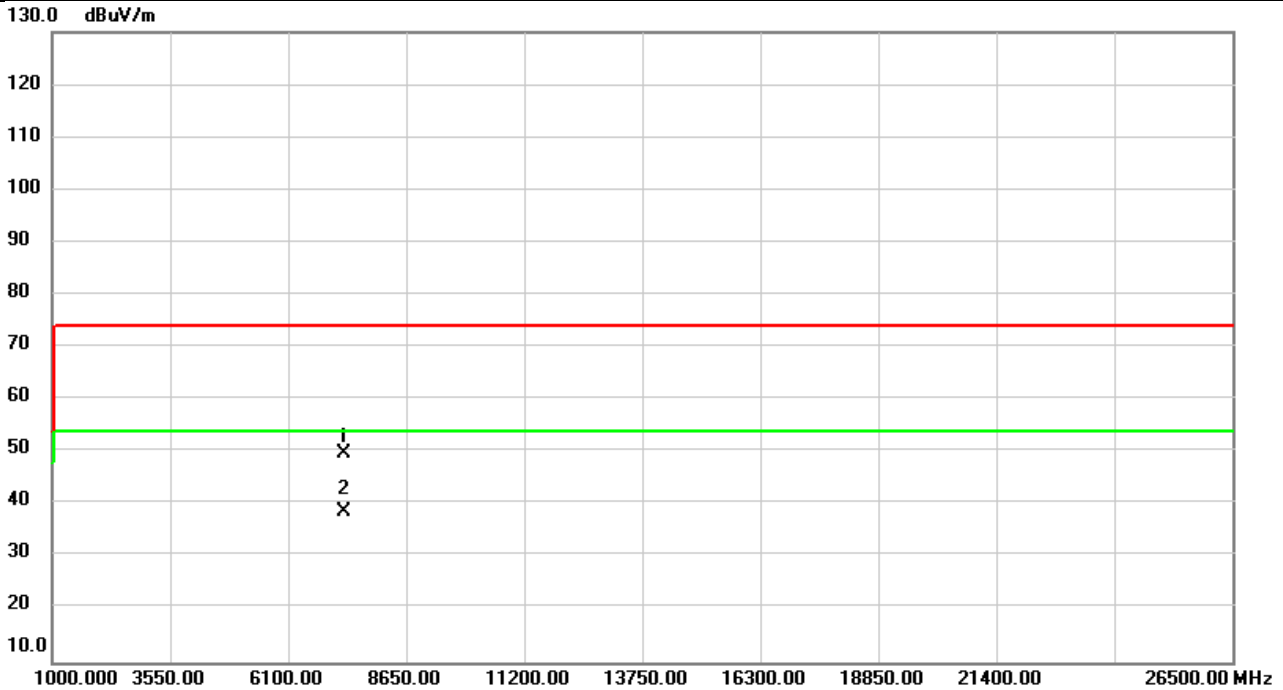


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 7311.000 | 54.55 | -5.08 | 49.47 | 74.00 | -24.53 | peak | |
| 2 | * | 7311.000 | 44.50 | -5.08 | 39.42 | 54.00 | -14.58 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11b | Test Date | 2021/12/16 |
| Test Frequency | 2437MHz | Polarization | Horizontal |
| Temp | 20°C | Hum. | 66% |

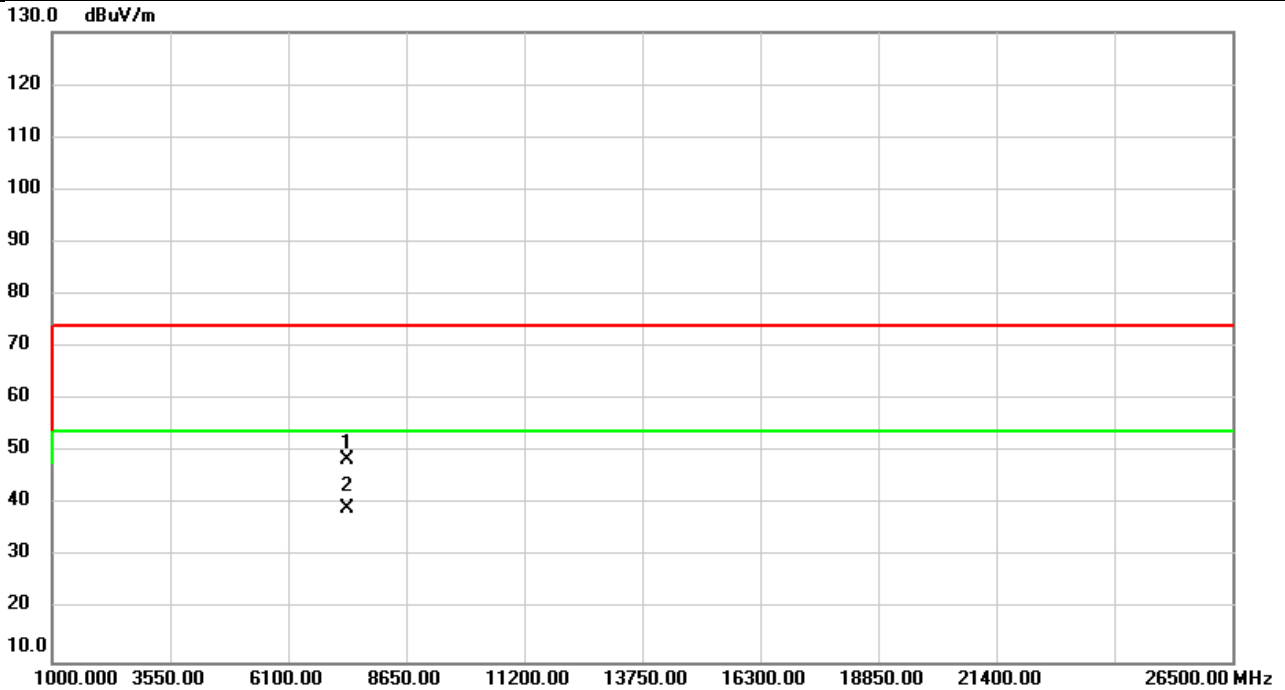


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 7311.000 | 54.73 | -5.08 | 49.65 | 74.00 | -24.35 | peak | |
| 2 | * | 7311.000 | 43.59 | -5.08 | 38.51 | 54.00 | -15.49 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11b | Test Date | 2021/12/16 |
| Test Frequency | 2462MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

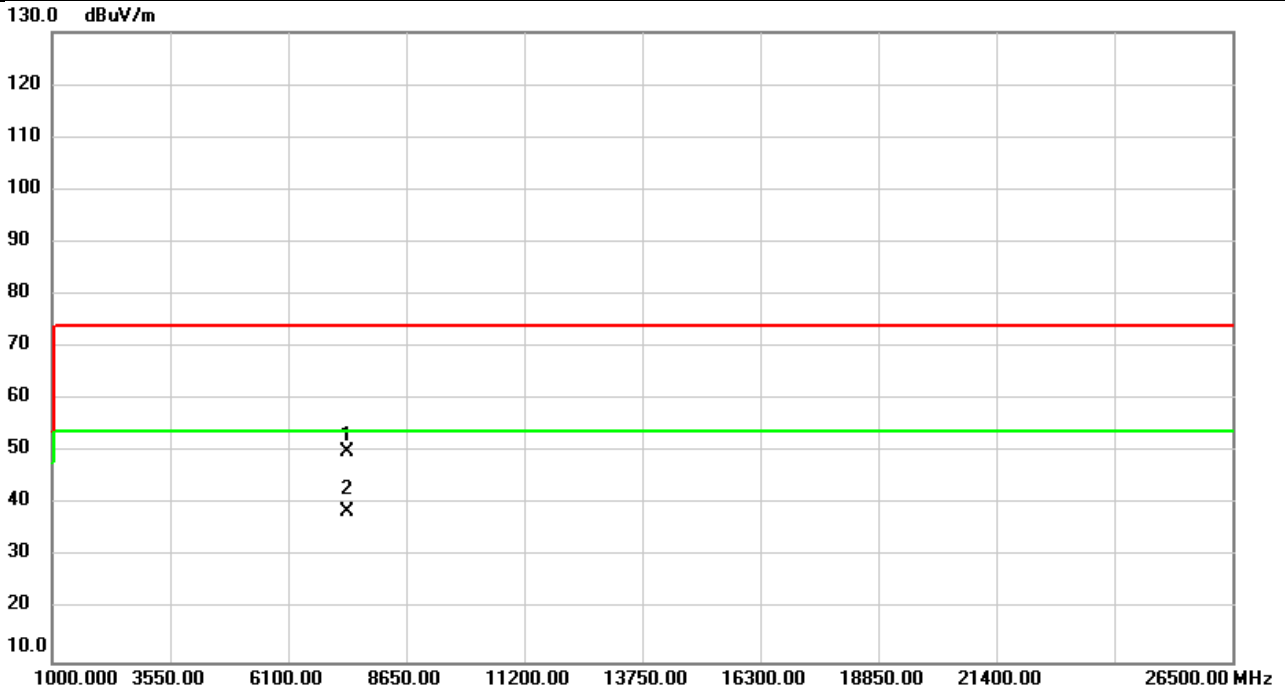


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 7386.000 | 53.45 | -4.79 | 48.66 | 74.00 | -25.34 | peak | |
| 2 | * | 7386.000 | 43.92 | -4.79 | 39.13 | 54.00 | -14.87 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11b | Test Date | 2021/12/16 |
| Test Frequency | 2462MHz | Polarization | Horizontal |
| Temp | 20°C | Hum. | 66% |

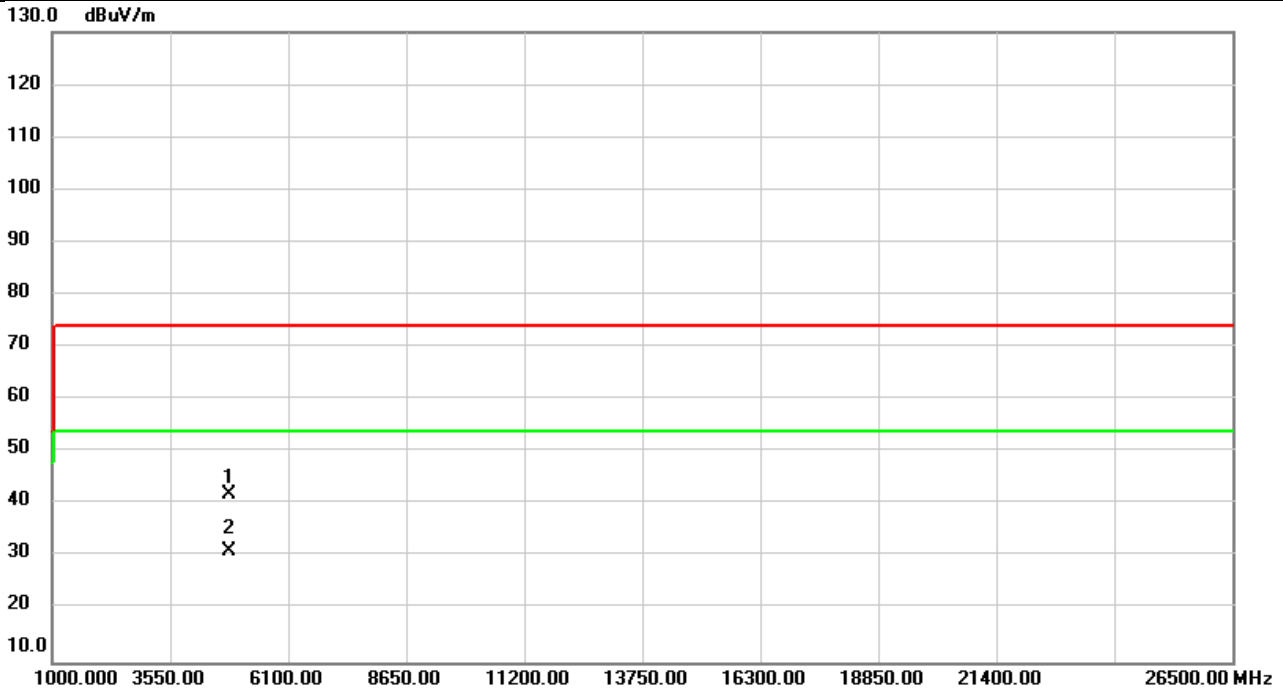


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 7386.000 | 54.73 | -4.79 | 49.94 | 74.00 | -24.06 | peak | |
| 2 | * | 7386.000 | 43.38 | -4.79 | 38.59 | 54.00 | -15.41 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11g | Test Date | 2021/12/16 |
| Test Frequency | 2412MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

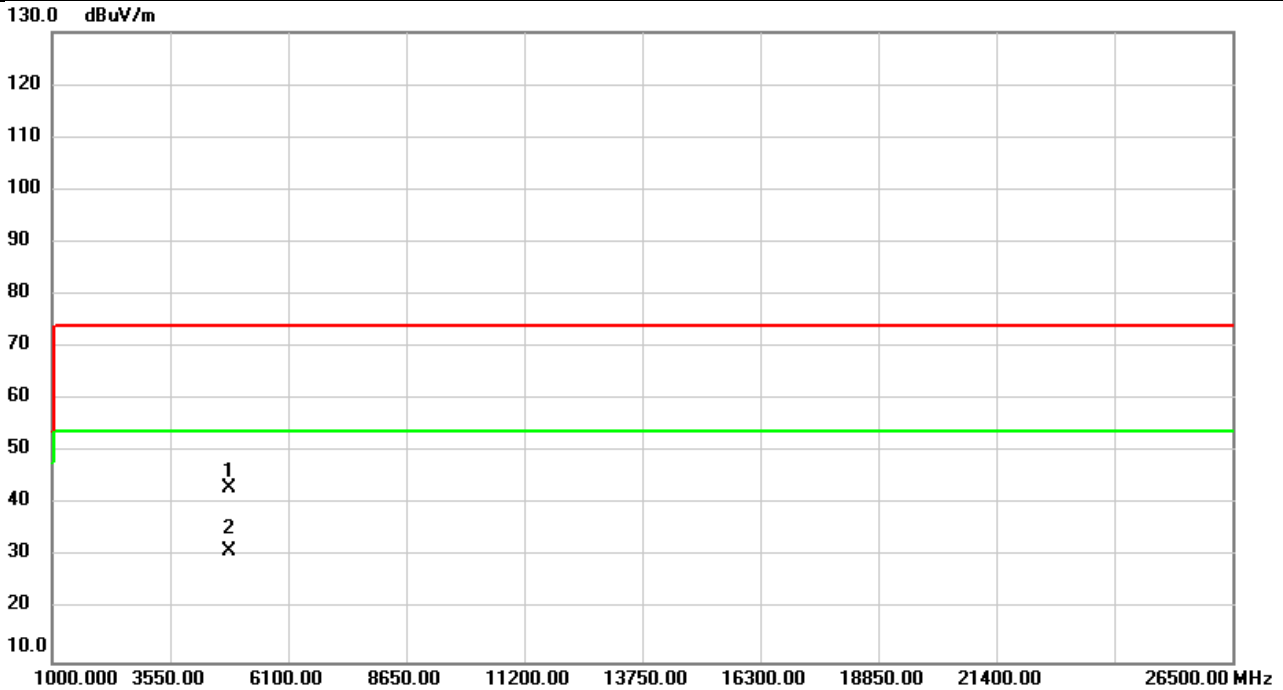


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4824.000 | 53.56 | -11.64 | 41.92 | 74.00 | -32.08 | peak | |
| 2 | * | 4824.000 | 42.85 | -11.64 | 31.21 | 54.00 | -22.79 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11g | Test Date | 2021/12/16 |
| Test Frequency | 2412MHz | Polarization | Horizontal |
| Temp | 20°C | Hum. | 66% |

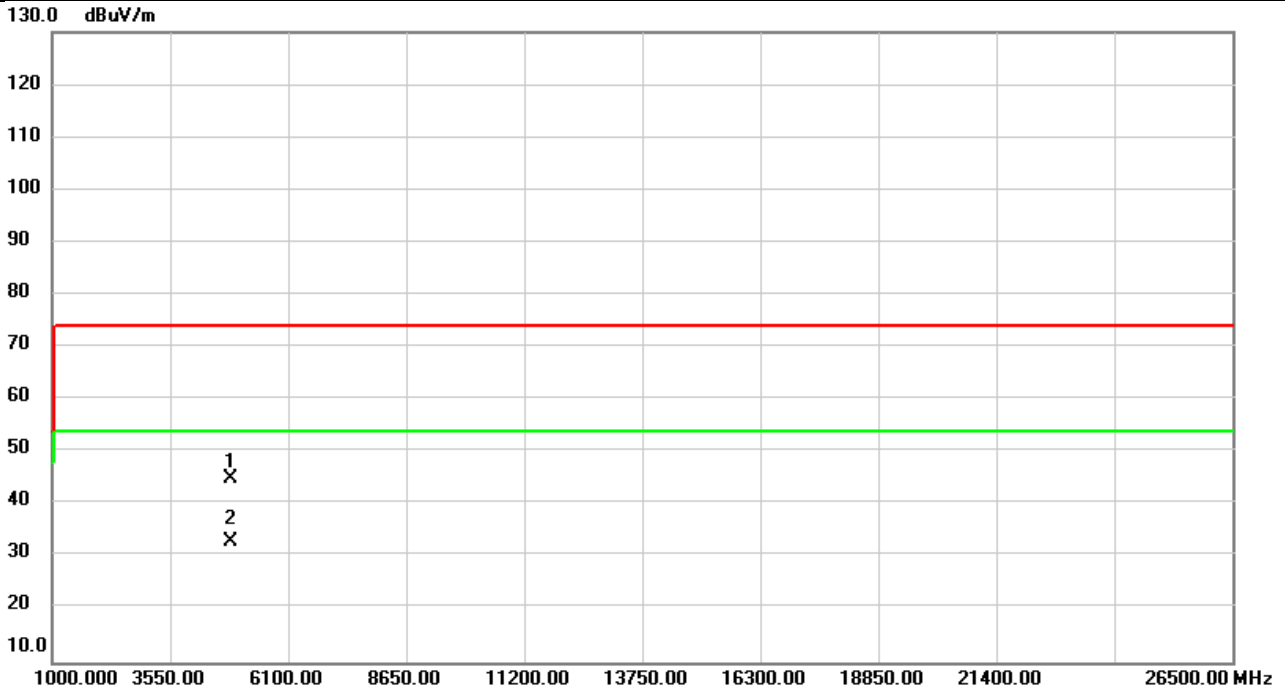


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4824.000 | 54.71 | -11.64 | 43.07 | 74.00 | -30.93 | peak | |
| 2 | * | 4824.000 | 42.78 | -11.64 | 31.14 | 54.00 | -22.86 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11g | Test Date | 2021/12/16 |
| Test Frequency | 2437MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

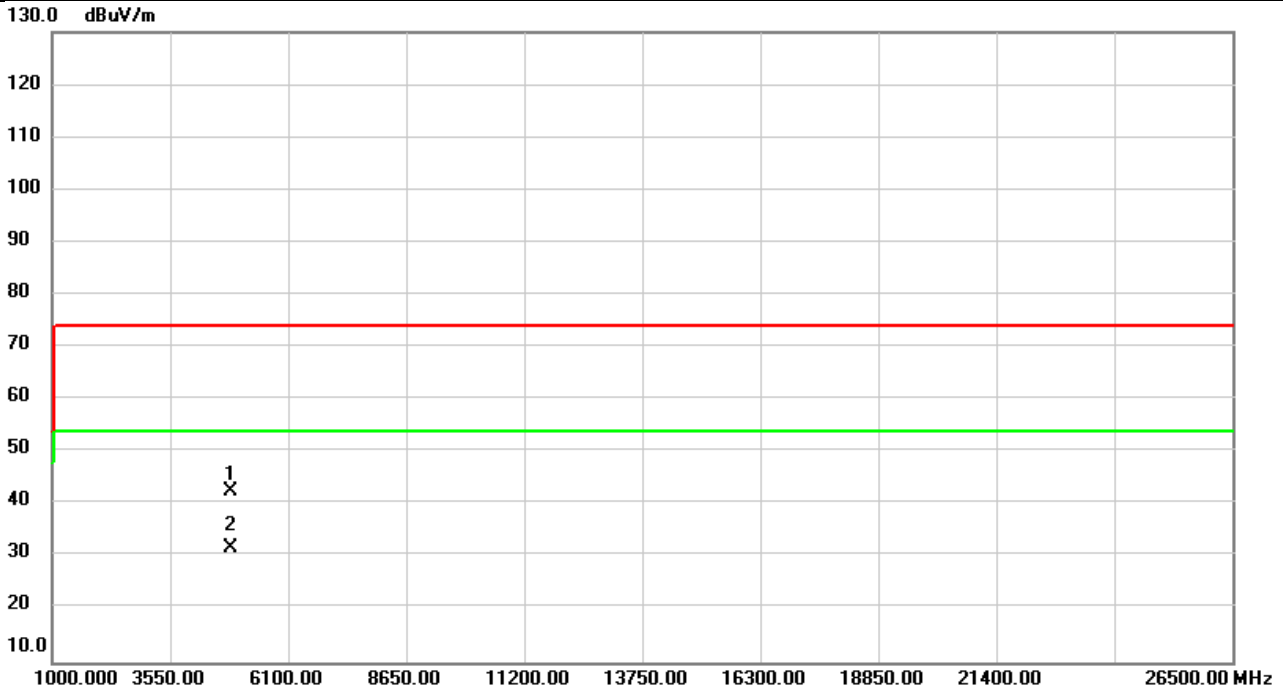


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4874.000 | 56.61 | -11.58 | 45.03 | 74.00 | -28.97 | peak | |
| 2 | * | 4874.000 | 44.43 | -11.58 | 32.85 | 54.00 | -21.15 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11g | Test Date | 2021/12/16 |
| Test Frequency | 2437MHz | Polarization | Horizontal |
| Temp | 20°C | Hum. | 66% |

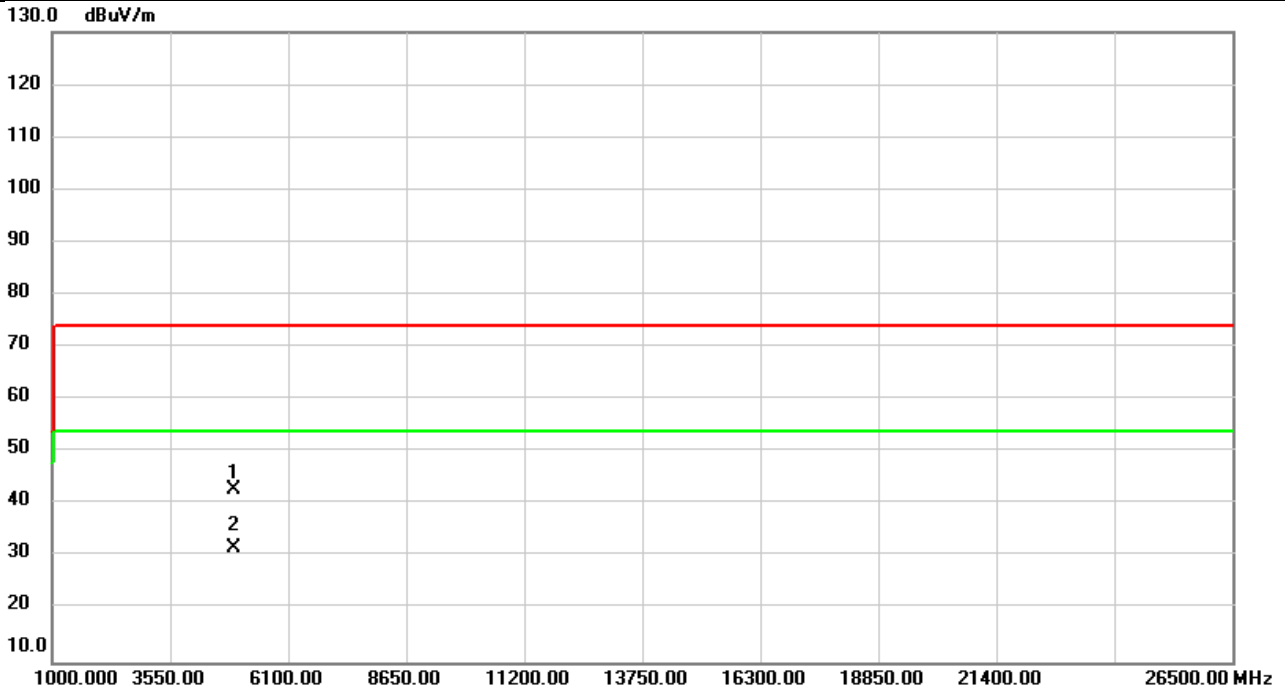


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4874.000 | 54.03 | -11.58 | 42.45 | 74.00 | -31.55 | peak | |
| 2 | * | 4874.000 | 43.25 | -11.58 | 31.67 | 54.00 | -22.33 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11g | Test Date | 2021/12/16 |
| Test Frequency | 2462MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

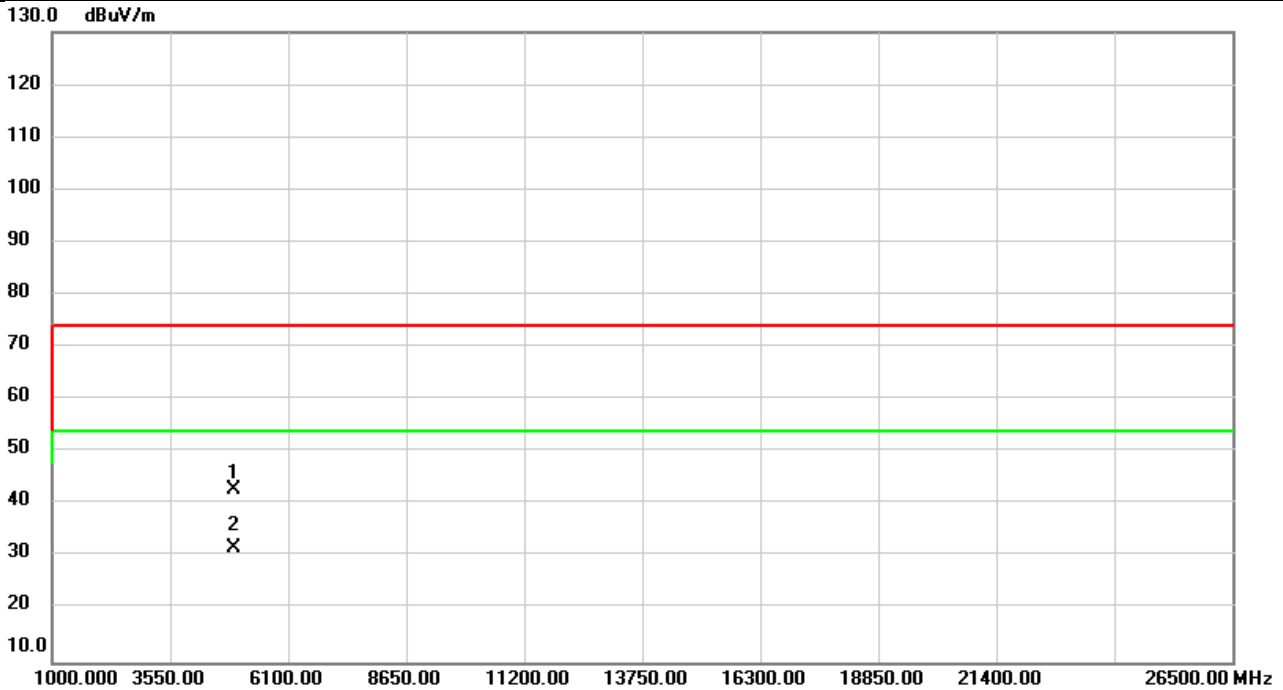


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4924.000 | 54.50 | -11.51 | 42.99 | 74.00 | -31.01 | peak | |
| 2 | * | 4924.000 | 43.20 | -11.51 | 31.69 | 54.00 | -22.31 | AVG | |

REMARKS:

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

| | | | |
|----------------|--------------|--------------|------------|
| Test Mode | IEEE 802.11g | Test Date | 2021/12/16 |
| Test Frequency | 2462MHz | Polarization | Horizontal |
| Temp | 20°C | Hum. | 66% |

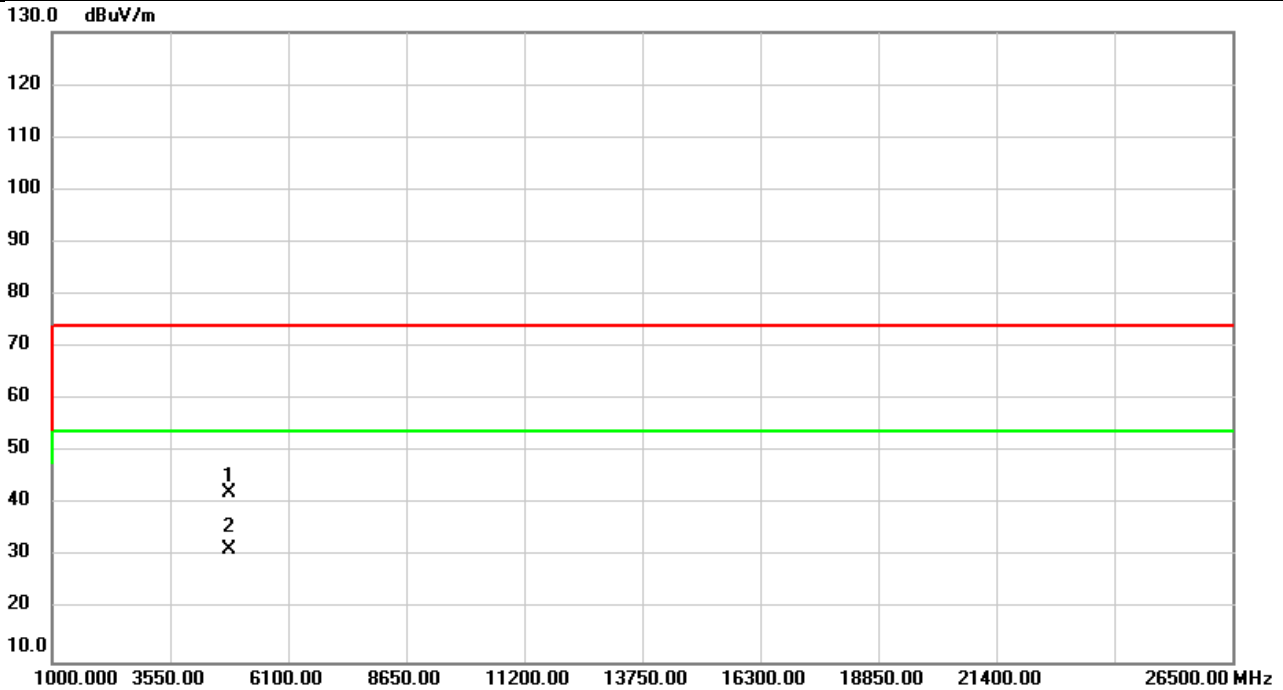


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4924.000 | 54.39 | -11.51 | 42.88 | 74.00 | -31.12 | peak | |
| 2 | * | 4924.000 | 43.23 | -11.51 | 31.72 | 54.00 | -22.28 | AVG | |

REMARKS:

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

| | | | |
|----------------|---------------------|--------------|------------|
| Test Mode | IEEE 802.11n (HT20) | Test Date | 2021/12/16 |
| Test Frequency | 2412MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

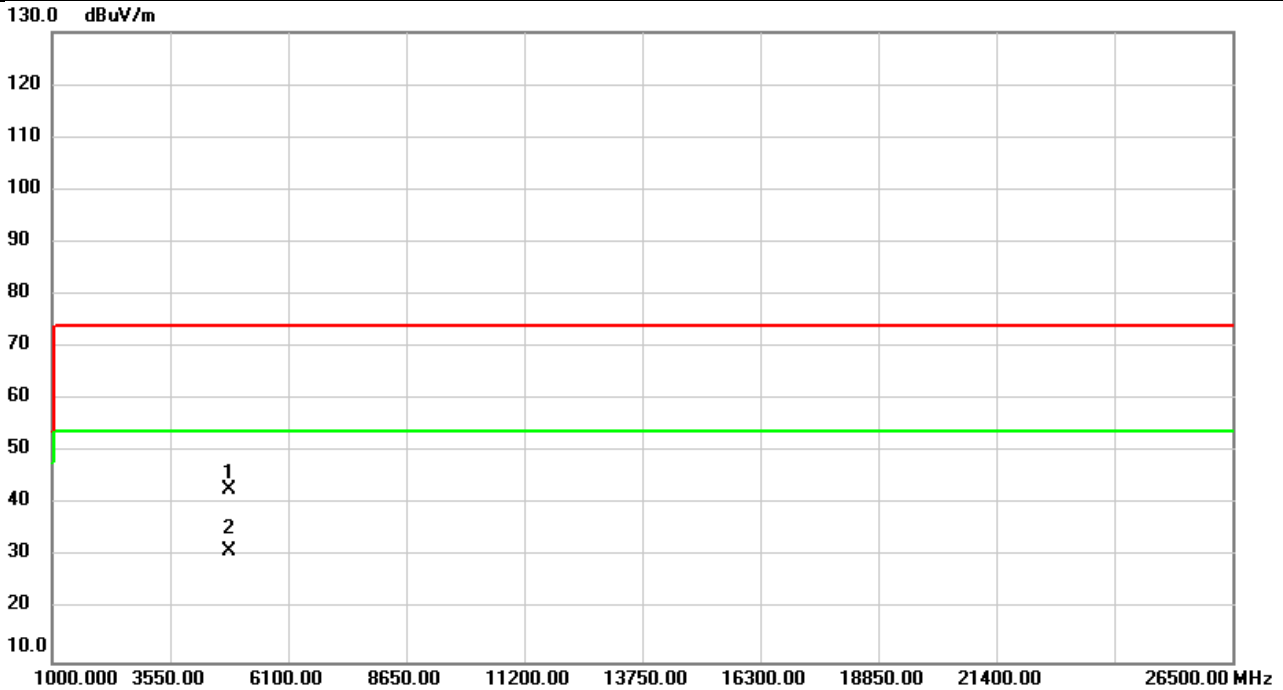


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4824.000 | 53.81 | -11.64 | 42.17 | 74.00 | -31.83 | peak | |
| 2 | * | 4824.000 | 42.98 | -11.64 | 31.34 | 54.00 | -22.66 | AVG | |

REMARKS:

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

| | | | |
|----------------|---------------------|--------------|------------|
| Test Mode | IEEE 802.11n (HT20) | Test Date | 2021/12/16 |
| Test Frequency | 2412MHz | Polarization | Horizontal |
| Temp | 20°C | Hum. | 66% |

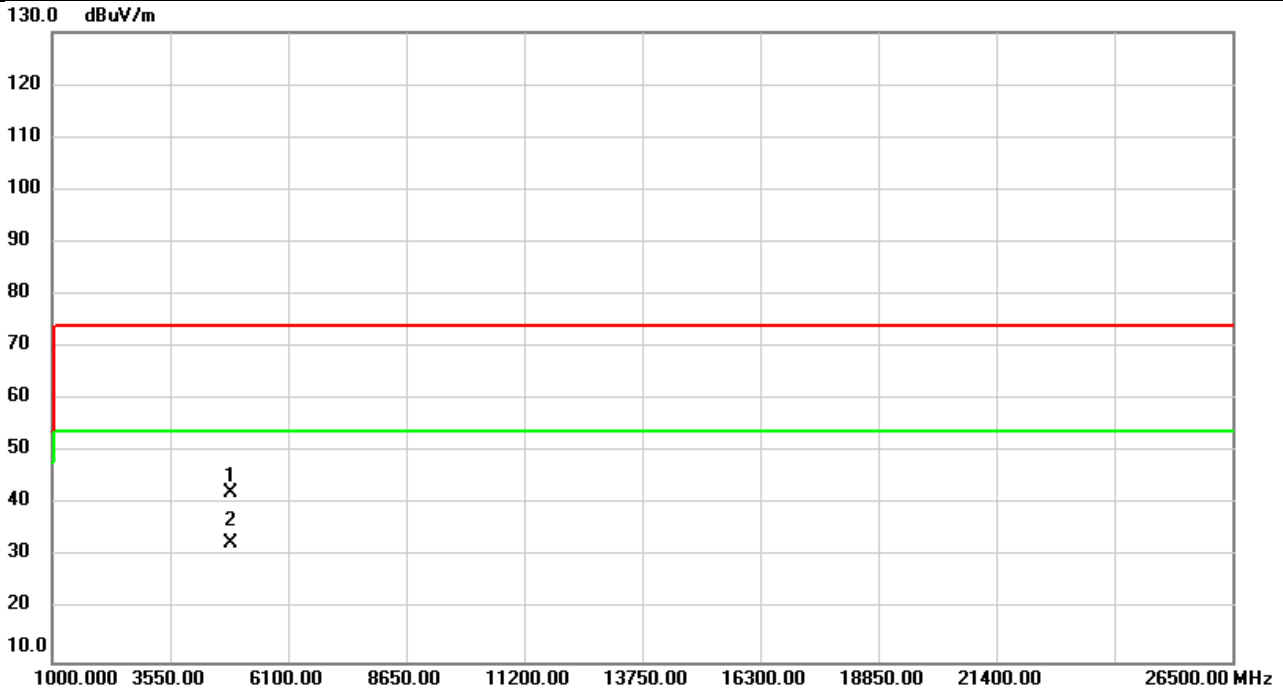


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4824.000 | 54.36 | -11.64 | 42.72 | 74.00 | -31.28 | peak | |
| 2 | * | 4824.000 | 42.88 | -11.64 | 31.24 | 54.00 | -22.76 | AVG | |

REMARKS:

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

| | | | |
|----------------|---------------------|--------------|------------|
| Test Mode | IEEE 802.11n (HT20) | Test Date | 2021/12/16 |
| Test Frequency | 2437MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

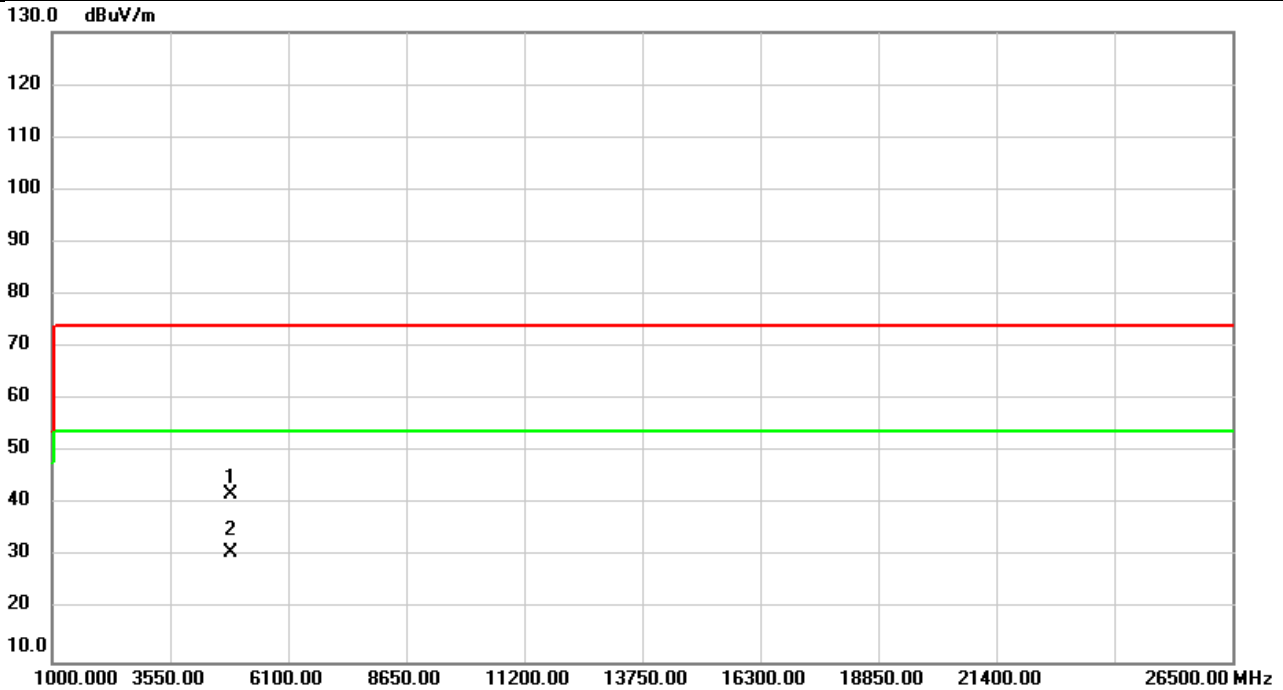


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4874.000 | 53.86 | -11.58 | 42.28 | 74.00 | -31.72 | peak | |
| 2 | * | 4874.000 | 44.30 | -11.58 | 32.72 | 54.00 | -21.28 | AVG | |

REMARKS:

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

| | | | |
|----------------|---------------------|--------------|------------|
| Test Mode | IEEE 802.11n (HT20) | Test Date | 2021/12/16 |
| Test Frequency | 2437MHz | Polarization | Horizontal |
| Temp | 20°C | Hum. | 66% |

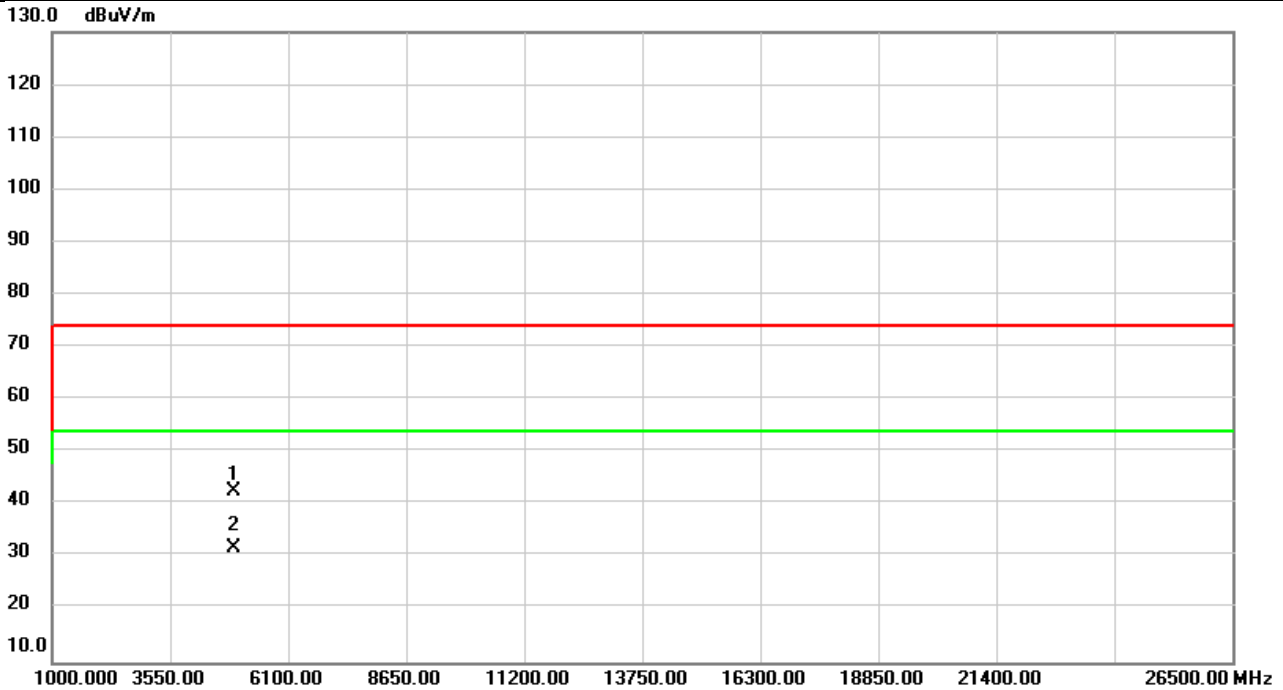


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4874.000 | 53.49 | -11.58 | 41.91 | 74.00 | -32.09 | peak | |
| 2 | * | 4874.000 | 42.35 | -11.58 | 30.77 | 54.00 | -23.23 | AVG | |

REMARKS:

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

| | | | |
|----------------|---------------------|--------------|------------|
| Test Mode | IEEE 802.11n (HT20) | Test Date | 2021/12/16 |
| Test Frequency | 2462MHz | Polarization | Vertical |
| Temp | 20°C | Hum. | 66% |

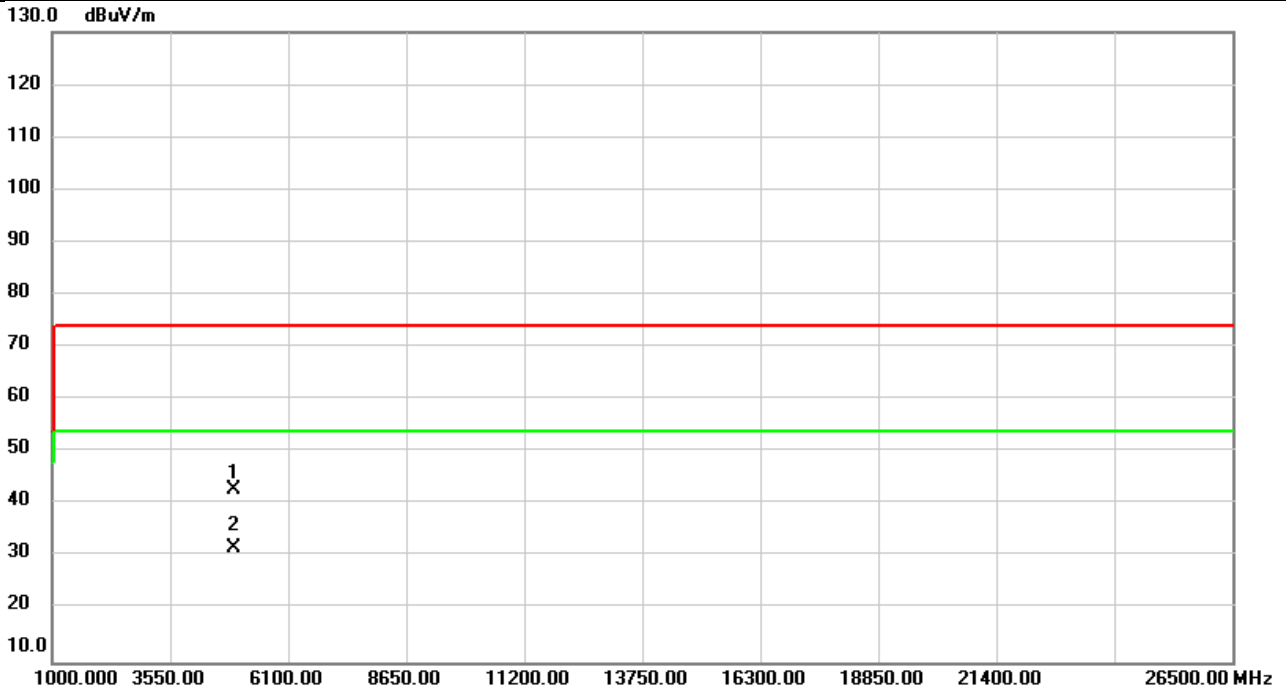


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4924.000 | 54.02 | -11.51 | 42.51 | 74.00 | -31.49 | peak | |
| 2 | * | 4924.000 | 43.24 | -11.51 | 31.73 | 54.00 | -22.27 | AVG | |

REMARKS:

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

| | | | |
|----------------|---------------------|--------------|------------|
| Test Mode | IEEE 802.11n (HT20) | Test Date | 2021/12/16 |
| Test Frequency | 2462MHz | Polarization | Horizontal |
| Temp | 20°C | Hum. | 66% |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4924.000 | 54.31 | -11.51 | 42.80 | 74.00 | -31.20 | peak | |
| 2 | * | 4924.000 | 43.14 | -11.51 | 31.63 | 54.00 | -22.37 | AVG | |

REMARKS:

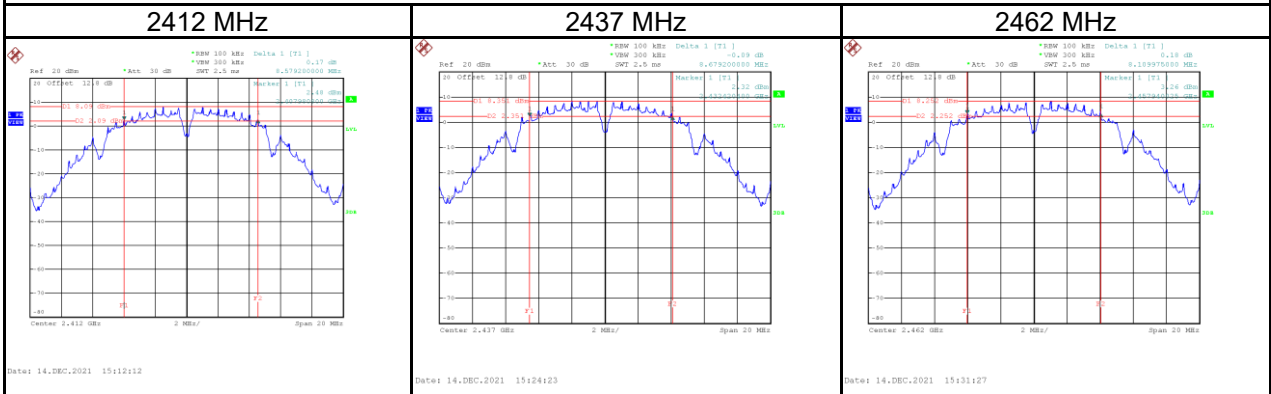
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D BANDWIDTH

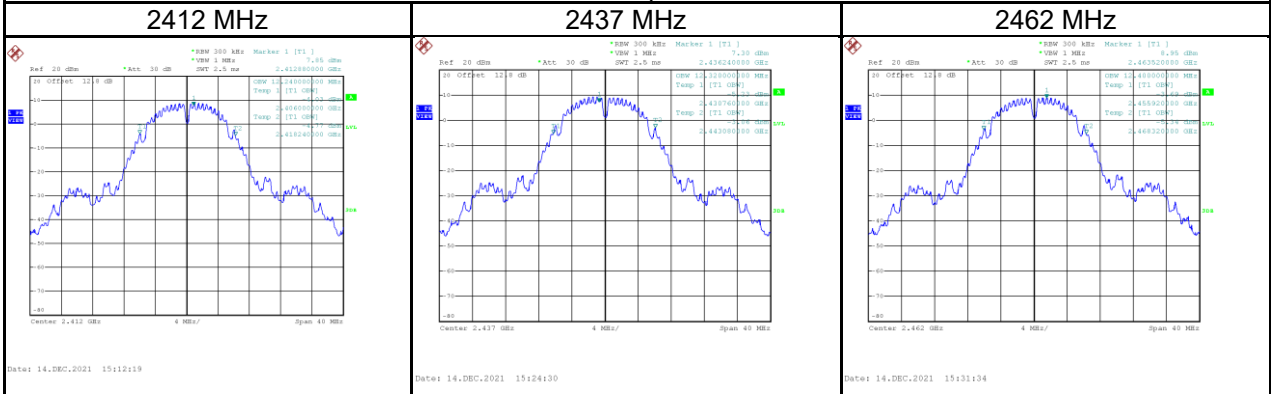
| | |
|-----------|--------------|
| Test Mode | IEEE 802.11b |
|-----------|--------------|

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Minimum 6 dB Bandwidth Limit (kHz) | Result |
|----------------------|----------------------|-------------------------------|------------------------------------|--------|
| 2412 | 8.58 | 12.24 | ≥ 500 | Pass |
| 2437 | 8.68 | 12.32 | ≥ 500 | Pass |
| 2462 | 8.11 | 12.40 | ≥ 500 | Pass |

6dB Bandwidth



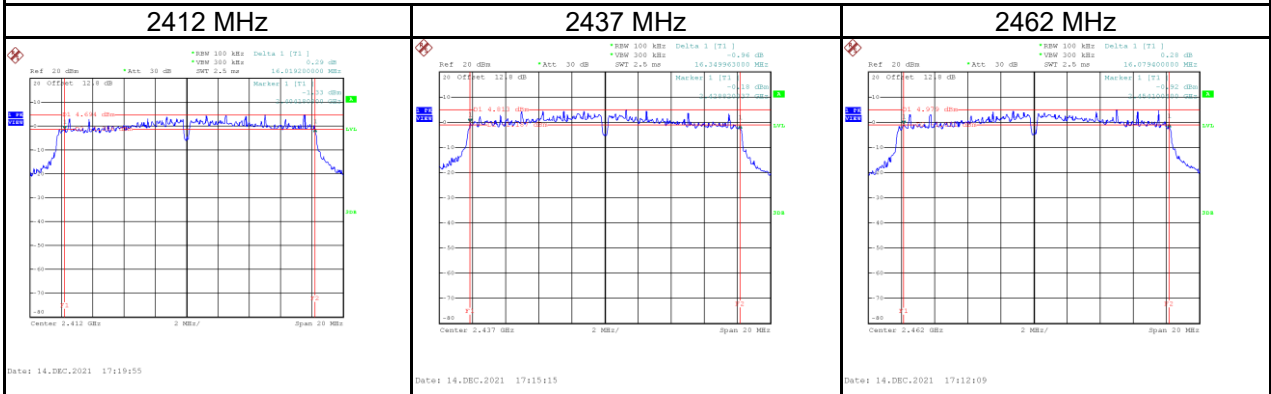
99% Occupied BW



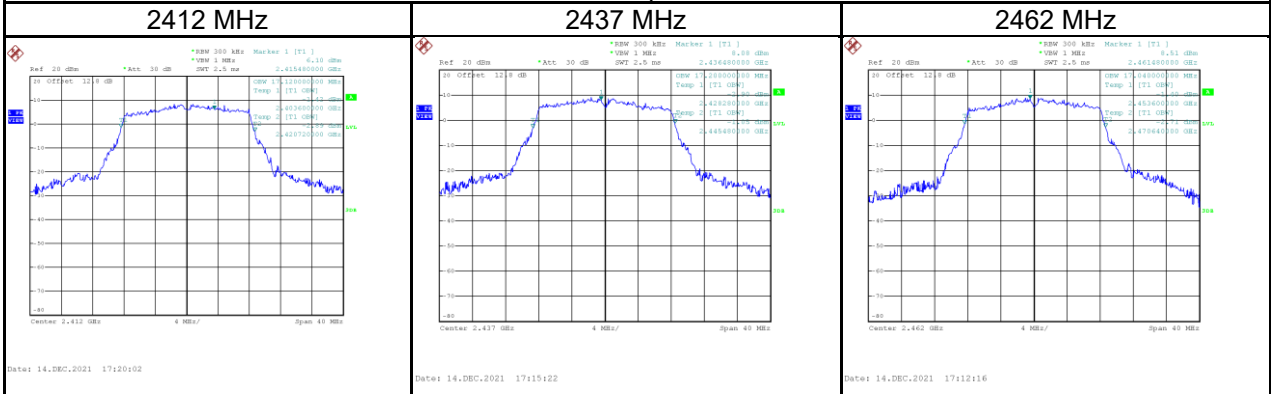
| | |
|-----------|--------------|
| Test Mode | IEEE 802.11g |
|-----------|--------------|

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Minimum 6 dB Bandwidth Limit (kHz) | Result |
|----------------------|----------------------|-------------------------------|------------------------------------|--------|
| 2412 | 16.02 | 17.12 | ≥ 500 | Pass |
| 2437 | 16.35 | 17.20 | ≥ 500 | Pass |
| 2462 | 16.08 | 17.04 | ≥ 500 | Pass |

6dB Bandwidth



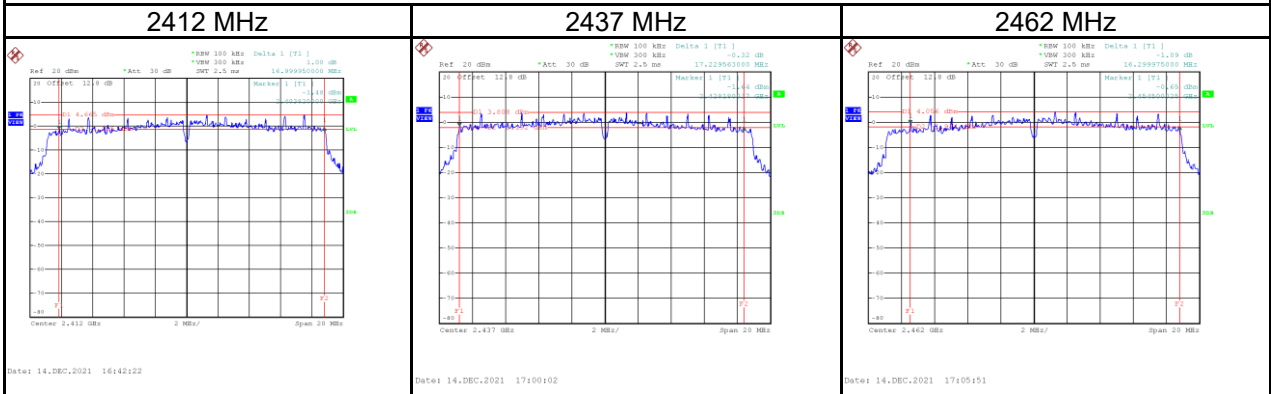
99% Occupied BW



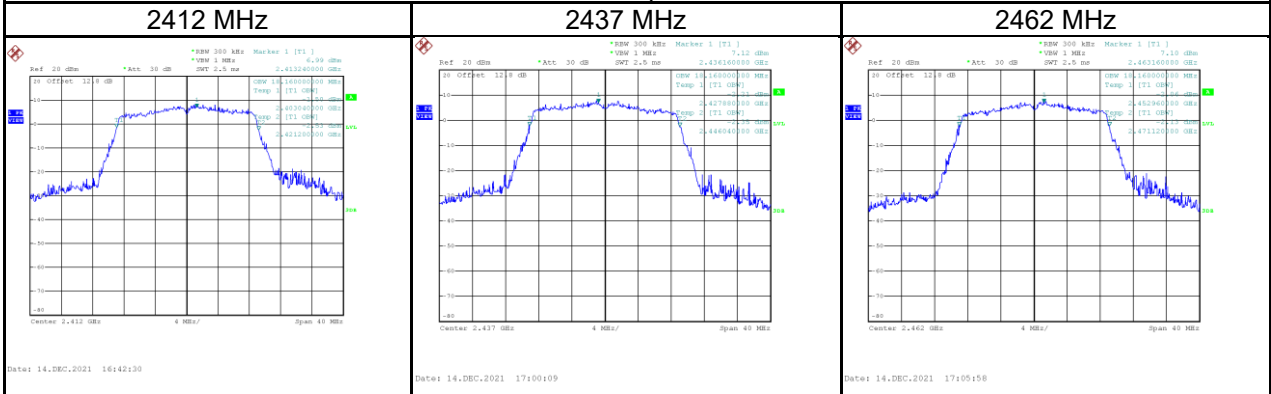
| | |
|-----------|---------------------|
| Test Mode | IEEE 802.11n (HT20) |
|-----------|---------------------|

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Minimum 6 dB Bandwidth Limit (kHz) | Result |
|----------------------|----------------------|-------------------------------|------------------------------------|--------|
| 2412 | 17.00 | 18.16 | ≥ 500 | Pass |
| 2437 | 17.23 | 18.16 | ≥ 500 | Pass |
| 2462 | 16.30 | 18.16 | ≥ 500 | Pass |

6dB Bandwidth



99% Occupied BW



APPENDIX E OUTPUT POWER

| | | | |
|-----------|--------------|-------------|------------|
| Test Mode | IEEE 802.11b | Tested Date | 2021/12/20 |
|-----------|--------------|-------------|------------|

| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Limit (dBm) | Limit (W) | Result |
|-----------------|-----------------------|---------------------|-------------|-----------|----------|
| 2412 | 19.46 | 0.0883 | 30.00 | 1.0000 | Complies |
| 2437 | 19.79 | 0.0953 | 30.00 | 1.0000 | Complies |
| 2462 | 19.58 | 0.0908 | 30.00 | 1.0000 | Complies |

| | | | |
|-----------|--------------|-------------|------------|
| Test Mode | IEEE 802.11g | Tested Date | 2021/12/20 |
|-----------|--------------|-------------|------------|

| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Limit (dBm) | Limit (W) | Result |
|-----------------|-----------------------|---------------------|-------------|-----------|----------|
| 2412 | 23.72 | 0.2355 | 30.00 | 1.0000 | Complies |
| 2437 | 24.38 | 0.2742 | 30.00 | 1.0000 | Complies |
| 2462 | 24.33 | 0.2710 | 30.00 | 1.0000 | Complies |

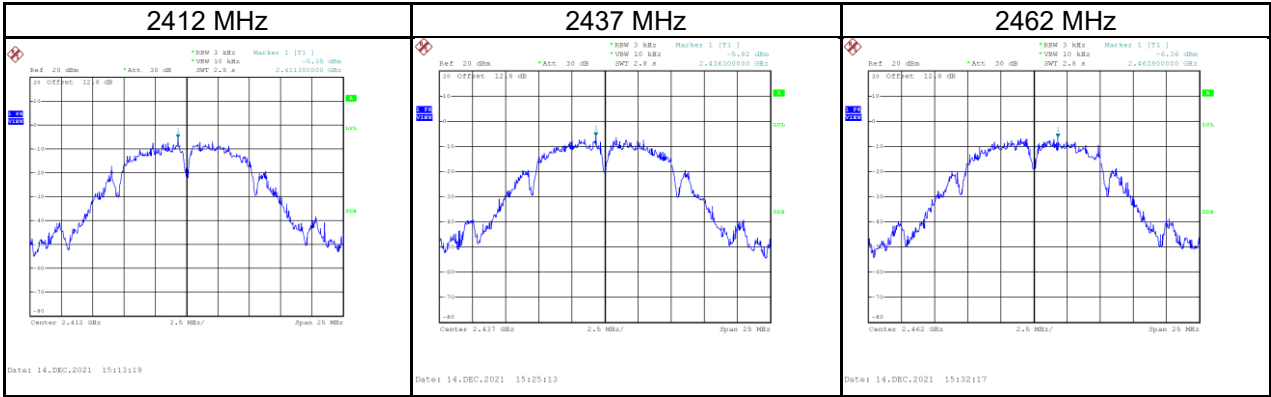
| | | | |
|-----------|---------------------|-------------|------------|
| Test Mode | IEEE 802.11n (HT20) | Tested Date | 2021/12/20 |
|-----------|---------------------|-------------|------------|

| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Limit (dBm) | Limit (W) | Result |
|-----------------|-----------------------|---------------------|-------------|-----------|----------|
| 2412 | 24.31 | 0.2698 | 30.00 | 1.0000 | Complies |
| 2437 | 24.69 | 0.2944 | 30.00 | 1.0000 | Complies |
| 2462 | 24.52 | 0.2831 | 30.00 | 1.0000 | Complies |

APPENDIX F POWER SPECTRAL DENSITY

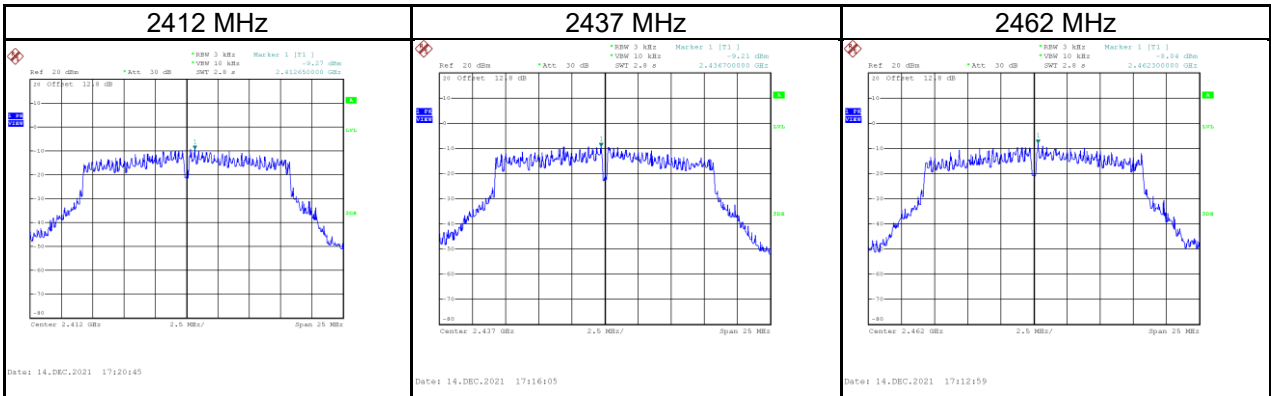
| | |
|-----------|--------------|
| Test Mode | IEEE 802.11b |
|-----------|--------------|

| Test Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Maximum Limit (dBm/3kHz) | Result |
|----------------------|-----------------------------------|--------------------------|--------|
| 2412 | -5.35 | 8.00 | Pass |
| 2437 | -5.82 | 8.00 | Pass |
| 2462 | -6.36 | 8.00 | Pass |



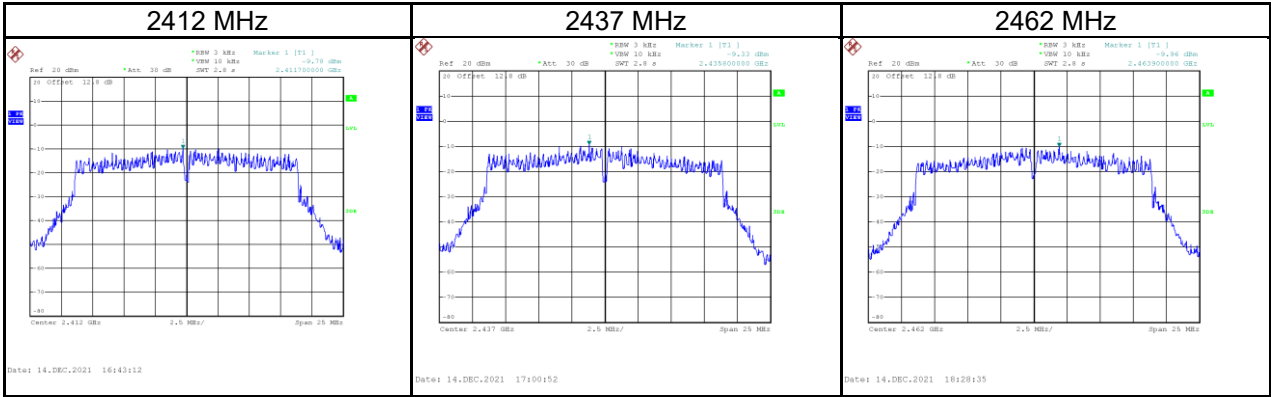
| | |
|-----------|--------------|
| Test Mode | IEEE 802.11g |
|-----------|--------------|

| Test Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Maximum Limit (dBm/3kHz) | Result |
|----------------------|-----------------------------------|--------------------------|--------|
| 2412 | -9.27 | 8.00 | Pass |
| 2437 | -9.21 | 8.00 | Pass |
| 2462 | -8.04 | 8.00 | Pass |



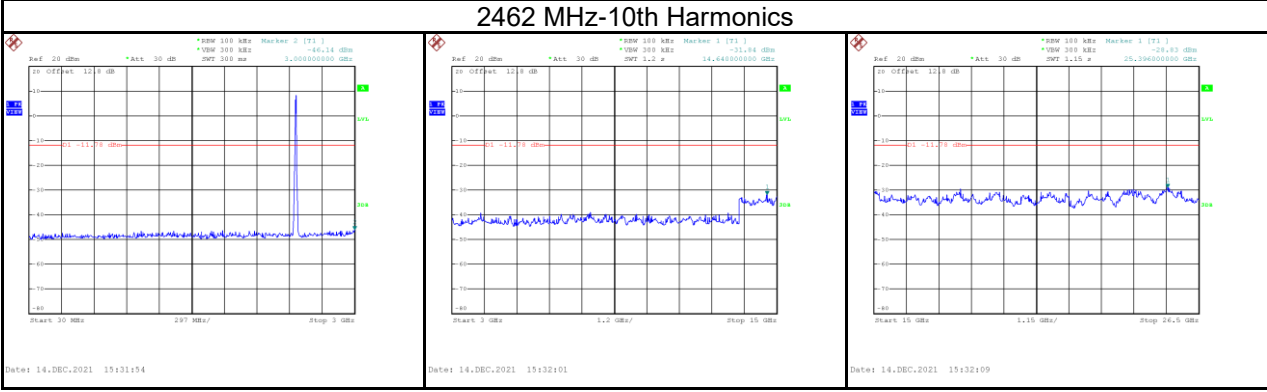
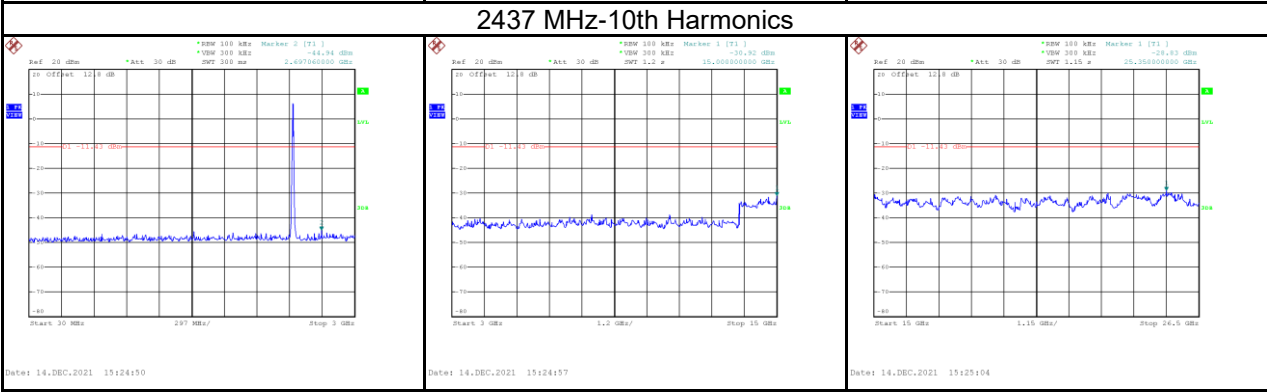
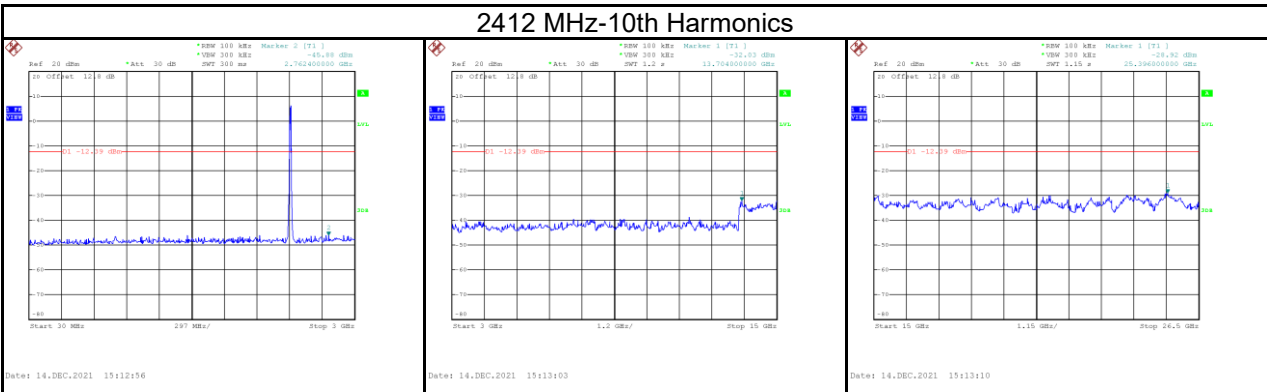
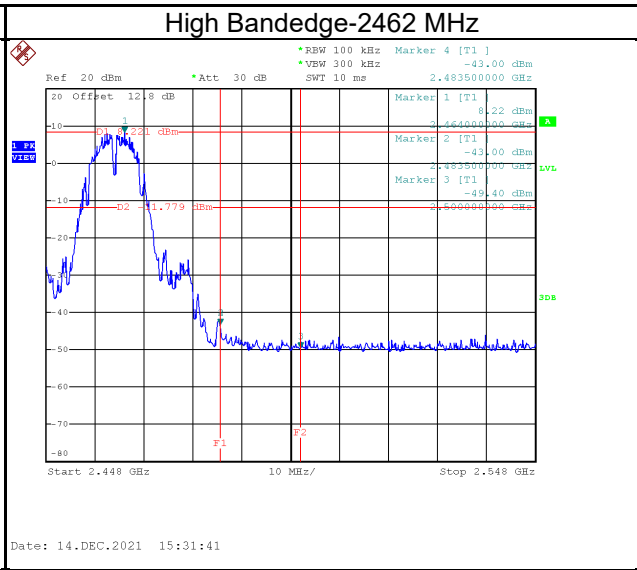
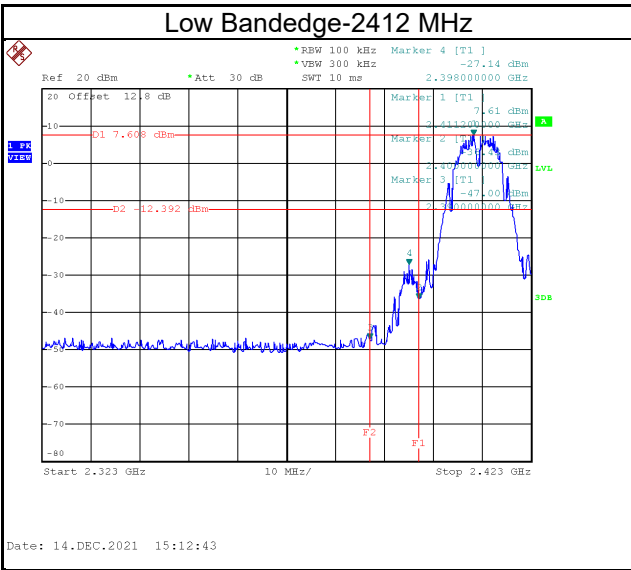
| | |
|-----------|---------------------|
| Test Mode | IEEE 802.11n (HT20) |
|-----------|---------------------|

| Test Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Maximum Limit (dBm/3kHz) | Result |
|----------------------|-----------------------------------|--------------------------|--------|
| 2412 | -9.78 | 8.00 | Pass |
| 2437 | -9.33 | 8.00 | Pass |
| 2462 | -9.96 | 8.00 | Pass |



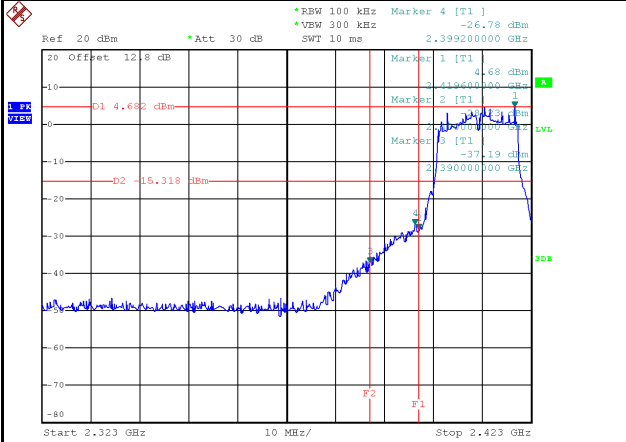
APPENDIX G ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Mode | IEEE 802.11b



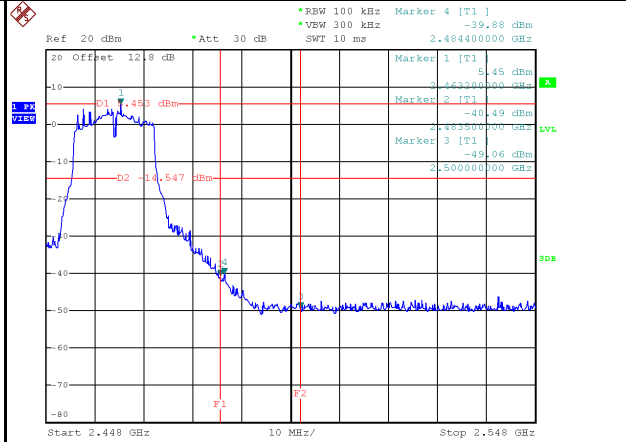
Test Mode IEEE 802.11g

Low Bandedge-2412 MHz



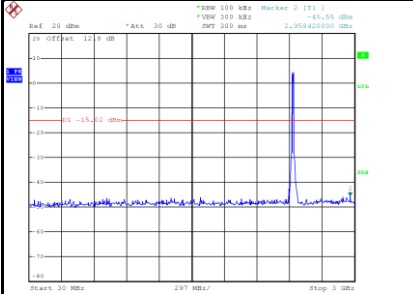
Date: 14.DEC.2021 17:20:09

High Bandedge-2462 MHz

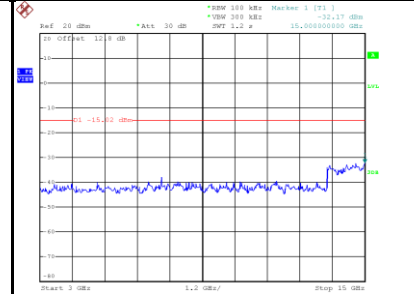


Date: 14.DEC.2021 17:12:23

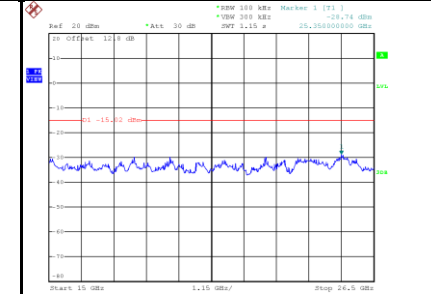
2412 MHz-10th Harmonics



Date: 14.DEC.2021 17:15:42

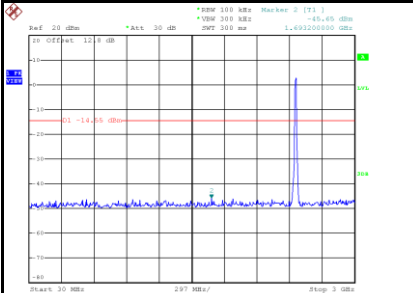


Date: 14.DEC.2021 17:15:49

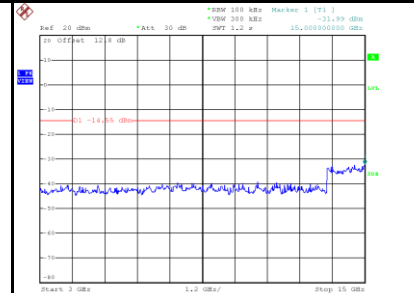


Date: 14.DEC.2021 17:15:56

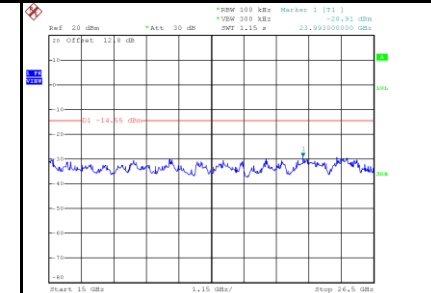
2437 MHz-10th Harmonics



Date: 14.DEC.2021 17:12:36

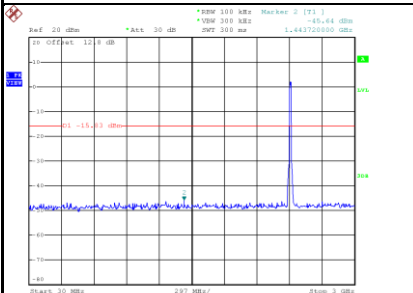


Date: 14.DEC.2021 17:12:43

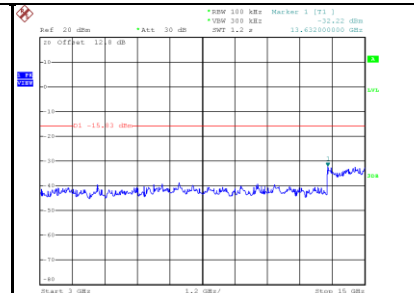


Date: 14.DEC.2021 17:12:51

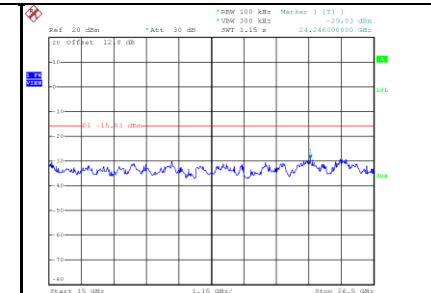
2462 MHz-10th Harmonics



Date: 14.DEC.2021 16:42:50

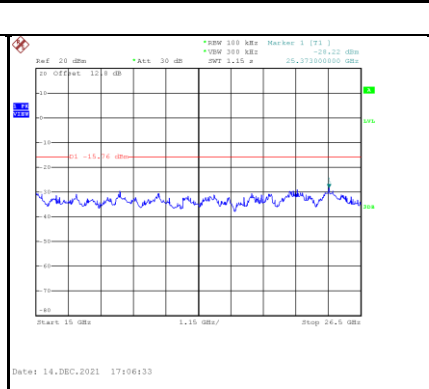
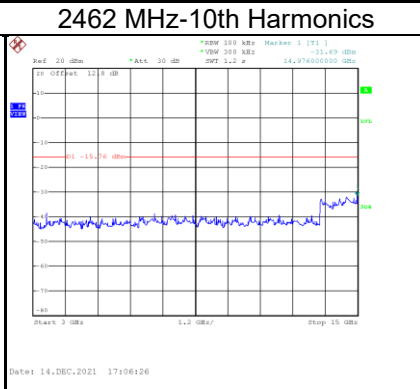
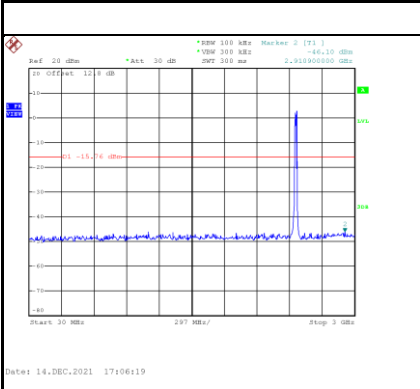
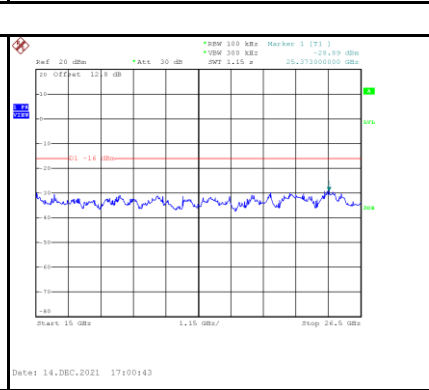
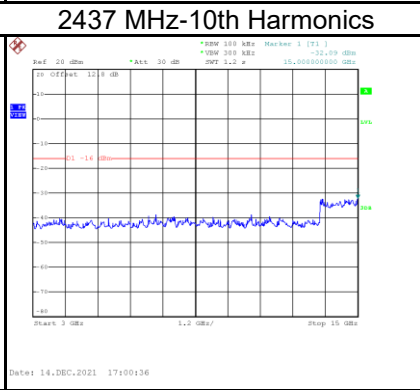
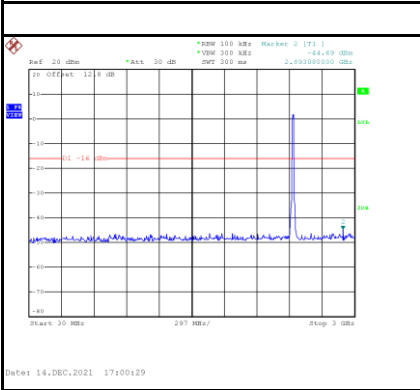
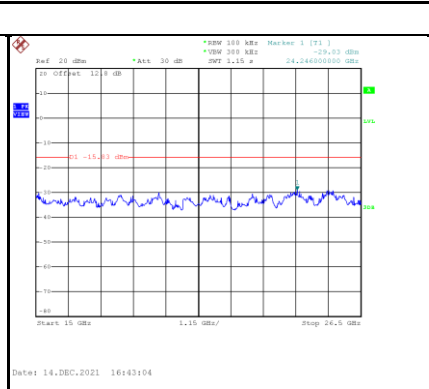
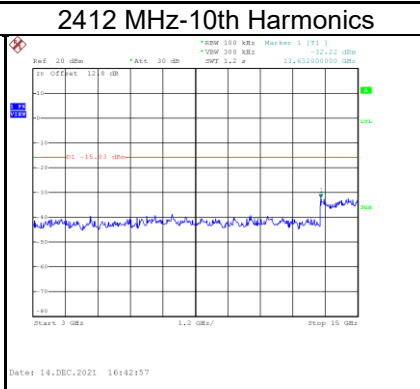
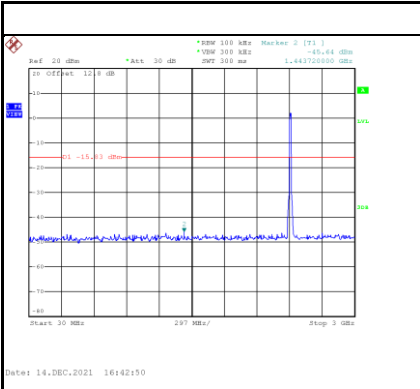
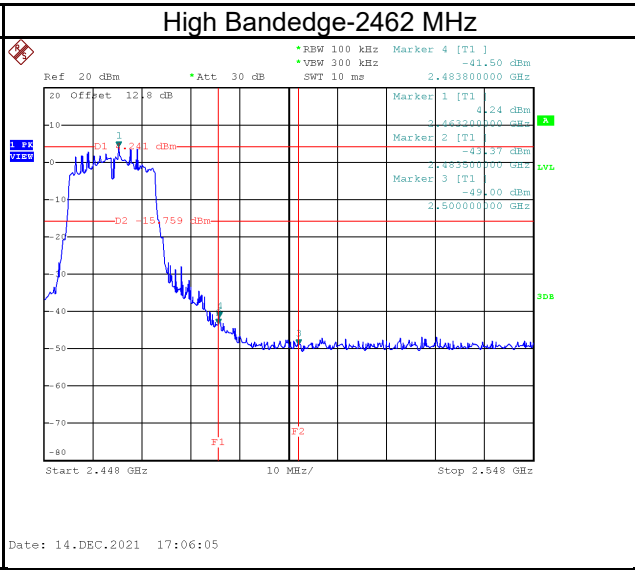
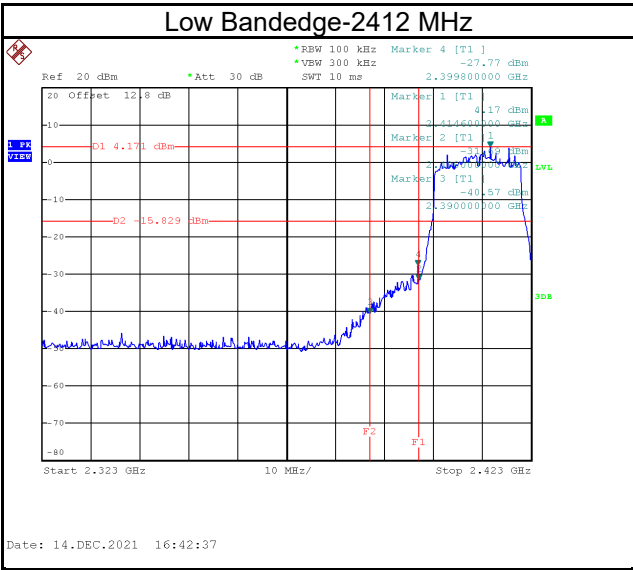


Date: 14.DEC.2021 16:42:57



Date: 14.DEC.2021 16:43:04

Test Mode | IEEE 802.11n (HT20)



End of Test Report