

# TEST REPORT

**Reference No.**..... : WTA25X11317627W  
**FCC ID** ..... : 2BTE6HJRF  
**Applicant** ..... : RICHMAT (THAILAND) CO.,LTD.  
**Address** ..... : Rojana Nongyai industrial 60 Village No. 3, Tombol Hang Sung, Amphur  
Nong Yai , Chonburi Province Thailand 20190  
**Manufacturer** ..... : The same as Applicant  
**Address** ..... : The same as Applicant  
**Product Name** ..... : Control box  
**Model No.**..... : HJC9  
**Standards** ..... : FCC Part 15.249  
**Date of Receipt sample** .... : 2025-11-28  
**Date of Test**..... : 2026-03-12 to 2026-03-25  
**Date of Issue** ..... : 2026-03-27  
**Test Report Form No.** ..... : WTX\_Part 15\_249W  
**Test Result**..... : **Pass**

**Remarks:**

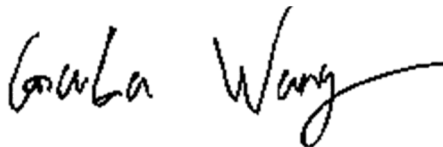
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

**Prepared By:**

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Tested by:



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Gala Wang/Project Engineer

Approved by:



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Jason Su/Manager

## **TABLE OF CONTENTS**

|                                                              |           |
|--------------------------------------------------------------|-----------|
| <b>1. GENERAL INFORMATION .....</b>                          | <b>4</b>  |
| 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) ..... | 4         |
| 1.2 TEST STANDARDS.....                                      | 5         |
| 1.3 TEST METHODOLOGY .....                                   | 5         |
| 1.4 TEST FACILITY .....                                      | 5         |
| 1.5 EUT SETUP AND TEST MODE .....                            | 6         |
| 1.6 MEASUREMENT UNCERTAINTY .....                            | 7         |
| 1.7 TEST EQUIPMENT LIST AND DETAILS .....                    | 8         |
| <b>2. SUMMARY OF TEST RESULTS.....</b>                       | <b>12</b> |
| <b>3. ANTENNA REQUIREMENTS .....</b>                         | <b>13</b> |
| 3.1 STANDARD APPLICABLE .....                                | 13        |
| 3.2 TEST RESULT.....                                         | 13        |
| <b>4. RADIATED EMISSIONS .....</b>                           | <b>14</b> |
| 4.1 STANDARD APPLICABLE .....                                | 14        |
| 4.2 TEST PROCEDURE .....                                     | 14        |
| 4.3 CORRECTED AMPLITUDE & MARGIN CALCULATION.....            | 17        |
| 4.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 17        |
| <b>5. OUT OF BAND EMISSIONS .....</b>                        | <b>30</b> |
| 5.1 STANDARD APPLICABLE .....                                | 30        |
| 5.2 TEST PROCEDURE .....                                     | 30        |
| 5.3 SUMMARY OF TEST RESULTS/PLOTS.....                       | 30        |
| <b>6. CONDUCTED EMISSIONS .....</b>                          | <b>35</b> |
| 6.1 TEST PROCEDURE .....                                     | 35        |
| 6.2 BASIC TEST SETUP BLOCK DIAGRAM .....                     | 35        |
| 6.3 TEST RECEIVER SETUP .....                                | 35        |
| 6.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 35        |
| <b>APPENDIX PHOTOGRAPHS.....</b>                             | <b>38</b> |

Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00      | 2026-03-27    | Original    |
| /           | /             | /           |

## 1. GENERAL INFORMATION

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### 1.1 Product Description for Equipment Under Test (EUT)

| General Description of EUT                                       |             |
|------------------------------------------------------------------|-------------|
| Product Name:                                                    | Control box |
| Trade Name:                                                      | /           |
| Model No.:                                                       | HJC9        |
| Adding Model(s):                                                 | /           |
| Rated Voltage:                                                   | DC 29V      |
| Battery Capacity                                                 | /           |
| Power Adapter Model:                                             | /           |
| <i>Note: The sample information is provided by the customer.</i> |             |

| Technical Characteristics of EUT                                                                                                                                                            |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Frequency Range:                                                                                                                                                                            | 2405MHz-2480MHz |
| Max. Field Strength:                                                                                                                                                                        | 84.22dBuV/m     |
| Modulation:                                                                                                                                                                                 | FSK             |
| Quantity of Channels:                                                                                                                                                                       | 151             |
| Channel Separation:                                                                                                                                                                         | 0.5MHz          |
| Antenna Type:                                                                                                                                                                               | PCB Antenna     |
| Antenna Gain:                                                                                                                                                                               | 0dBi            |
| <i>Note: 1: The Antenna Gain is provided by the customer and can affect the validity of results.</i><br><i>2: The data provided by the customer and can affect the validity of results.</i> |                 |

## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.249:** Operation within the bands 902-928MHz, 2400-2483.5MHz, 5725-5875MHz, and 24.0-24.25GHz.

**ANSI C63.10-2020:** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

## 1.4 Test Facility

### Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

### FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

| Test Mode List |                |         |
|----------------|----------------|---------|
| Test Mode      | Description    | Remark  |
| TM1            | Low Channel    | 2405MHz |
| TM2            | Middle Channel | 2440MHz |
| TM3            | High Channel   | 2480MHz |

| Test Conditions    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 48 %.     |
| ATM Pressure:      | 1019 mbar |

| EUT Cable List and Details |            |                     |                        |
|----------------------------|------------|---------------------|------------------------|
| Cable Description          | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| /                          | /          | /                   | /                      |

| Special Cable List and Details |            |                     |                        |
|--------------------------------|------------|---------------------|------------------------|
| Cable Description              | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| /                              | /          | /                   | /                      |

| Auxiliary Equipment List and Details |              |             |               |
|--------------------------------------|--------------|-------------|---------------|
| Description                          | Manufacturer | Model       | Serial Number |
| AC/DC adapter                        | /            | PS3N-20A1-0 | /             |

## 1.6 Measurement Uncertainty

| Measurement uncertainty                  |            |                                       |
|------------------------------------------|------------|---------------------------------------|
| Parameter                                | Conditions | Uncertainty                           |
| RF Output Power                          | Conducted  | $\pm 0.57\text{dB}$                   |
| Occupied Bandwidth                       | Conducted  | $\pm 0.015\text{MHz}$                 |
| Conducted Spurious Emission              | Conducted  | $\pm 2.17\text{dB}$                   |
| Conducted Emission 1#                    | Conducted  | @9kHz to 150kHz: $\pm 3.74\text{dB}$  |
|                                          |            | @150kHz to 30MHz: $\pm 3.34\text{dB}$ |
| Conducted Emission 2#                    | Conducted  | @9kHz to 150kHz: $\pm 3.74\text{dB}$  |
|                                          |            | @150kHz to 30MHz: $\pm 3.34\text{dB}$ |
| Transmitter Spurious Emissions chamber A | Radiated   | @9kHz to 30MHz: $\pm 3.0\text{dB}$    |
|                                          |            | @30MHz to 1GHz: $\pm 5.70\text{dB}$   |
|                                          |            | @1GHz to 6GHz: $\pm 5.88\text{dB}$    |
|                                          |            | @6GHz to 18GHz: $\pm 5.96\text{dB}$   |
|                                          |            | @18GHz to 40GHz: $\pm 6.12\text{dB}$  |
| Transmitter Spurious Emissions chamber B | Radiated   | @30MHz to 1GHz: $\pm 5.36\text{dB}$   |
| Transmitter Spurious Emissions chamber C | Radiated   | @9kHz to 30MHz: $\pm 3.0\text{dB}$    |
|                                          |            | @30MHz to 1GHz: $\pm 5.28\text{dB}$   |
|                                          |            | @1GHz to 6GHz: $\pm 5.56\text{dB}$    |
|                                          |            | @6GHz to 18GHz: $\pm 5.72\text{dB}$   |
|                                          |            | @18GHz to 40GHz: $\pm 6.12\text{dB}$  |

## 1.7 Test Equipment List and Details

| Internal No.                                   | Description             | Manufacturer       | Model      | Serial No.                     | Cal Date   | Due. Date  |
|------------------------------------------------|-------------------------|--------------------|------------|--------------------------------|------------|------------|
| WTXE1041A<br>1002                              | Communication<br>Tester | Rohde &<br>Schwarz | CMW500     | 1201.0002<br>k50-14865<br>0-FB | 2026-02-06 | 2027-02-05 |
|                                                |                         |                    |            |                                | 2026-03-25 | 2027-03-24 |
| WTXE1005A<br>1005                              | MXA Signal<br>Analyzer  | Agilent            | N9020A     | US471401<br>02                 | 2026-02-06 | 2027-02-05 |
|                                                |                         |                    |            |                                | 2026-03-25 | 2027-03-24 |
| WTXE1084A<br>1001                              | MXA Signal<br>Analyzer  | KEYSIGHT           | N9020A     | MY543205<br>48                 | 2026-02-06 | 2027-02-05 |
| WTXE1005A<br>1006                              | Spectrum<br>Analyzer    | Rohde &<br>Schwarz | FSP40      | 100612                         | 2026-02-06 | 2027-02-05 |
| WTXW1105A<br>1136                              | RF<br>ATTENUATOR        | FEIYANG            | N-JK       | /                              | 2026-02-06 | 2027-02-05 |
| WTXE1003A<br>1-005                             | Coaxial Cable           | /                  | 0M4RFC     | /                              | 2026-02-23 | 2027-02-22 |
| <input type="checkbox"/> Chamber A: Below 1GHz |                         |                    |            |                                |            |            |
| WTXE1005A<br>1003                              | Spectrum<br>Analyzer    | Rohde &<br>Schwarz | FSP30      | 836079/03<br>5                 | 2026-02-05 | 2027-02-04 |
| WTXE1001A<br>1001                              | EMI Test<br>Receiver    | Rohde &<br>Schwarz | ESPI       | 101611                         | 2026-02-05 | 2027-02-04 |
| WTXE1007A<br>1002                              | Amplifier               | HP                 | 8447F      | 2805A034<br>75                 | 2026-02-05 | 2027-02-04 |
| WTXE1010A<br>1007                              | Loop Antenna            | Schwarz beck       | FMZB 1516  | 9773                           | 2026-02-05 | 2027-02-04 |
| WTXE1010A<br>1006                              | Broadband<br>Antenna    | Schwarz beck       | VULB9163   | 9163-333                       | 2026-03-11 | 2029-03-10 |
| WTXE1104A<br>1032-1                            | Coaxial Cable           | /                  | RC_6G-N-M  | /                              | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1032-2                            | Coaxial Cable           | /                  | RC_6G-N-M  | /                              | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1032-3                            | Coaxial Cable           | /                  | RC_6G-N-M  | /                              | 2026-02-23 | 2027-02-22 |
| <input type="checkbox"/> Chamber A: Above 1GHz |                         |                    |            |                                |            |            |
| WTXE1005A<br>1003                              | Spectrum<br>Analyzer    | Rohde &<br>Schwarz | FSP30      | 836079/03<br>5                 | 2026-02-05 | 2027-02-04 |
| WTXE1001A<br>1001                              | EMI Test<br>Receiver    | Rohde &<br>Schwarz | ESPI       | 101611                         | 2026-02-05 | 2027-02-04 |
| WTXE1065A<br>1001                              | Amplifier               | C&D                | PAP-1.0G18 | 14918                          | 2026-02-05 | 2027-02-04 |
| WTXE1010A<br>1005                              | Horn Antenna            | ETS                | 3117       | 00086197                       | 2026-02-05 | 2027-02-04 |

|                                                           |                                |                    |              |                |            |            |
|-----------------------------------------------------------|--------------------------------|--------------------|--------------|----------------|------------|------------|
| WTXE1010A<br>1010                                         | DRG Horn<br>Antenna            | A.H. SYSTEMS       | SAS-574      | 571            | 2026-02-10 | 2027-02-09 |
| WTXE1003A<br>1001                                         | Pre-amplifier                  | Schwarzbeck        | BBV 9721     | 9721-031       | 2026-02-05 | 2027-02-04 |
| WTXE1104A<br>1033-1                                       | Coaxial Cable                  | /                  | C16-07-07    | /              | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1033-2                                       | Coaxial Cable                  | /                  | C16-07-07    | /              | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1033-3                                       | Coaxial Cable                  | /                  | C16-07-07    | /              | 2026-02-23 | 2027-02-22 |
| <input type="checkbox"/> Chamber B:Below 1GHz             |                                |                    |              |                |            |            |
| WTXE1010A<br>1006                                         | Trilog<br>Broadband<br>Antenna | Schwarz beck       | VULB9163(B)  | 9163-635       | 2024-03-17 | 2027-03-16 |
| WTXE1038A<br>1001                                         | Amplifier                      | Agilent            | 8447D        | 2944A104<br>57 | 2026-02-05 | 2027-02-04 |
| WTXE1001A<br>1002                                         | EMI Test<br>Receiver           | Rohde &<br>Schwarz | ESPI         | 101391         | 2026-02-05 | 2027-02-04 |
| WTXE1104A<br>1031-1                                       | Coaxial Cable                  | /                  | 1.5MRFC-LWB3 | /              | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1031-2                                       | Coaxial Cable                  | /                  | RG 316       | /              | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1031-3                                       | Coaxial Cable                  | /                  | RG 316       | /              | 2026-02-23 | 2027-02-22 |
| <input checked="" type="checkbox"/> Chamber C:Below 1GHz  |                                |                    |              |                |            |            |
| WTXE1093A<br>1001                                         | EMI Test<br>Receiver           | Rohde &<br>Schwarz | ESIB 26      | 100401         | 2026-02-05 | 2027-02-04 |
| WTXE1010A<br>1013-1                                       | Trilog<br>Broadband<br>Antenna | Schwarz beck       | VULB 9168    | 1194           | 2024-04-18 | 2027-04-17 |
| WTXE1010A<br>1007                                         | Loop Antenna                   | Schwarz beck       | FMZB 1516    | 9773           | 2026-02-05 | 2027-02-04 |
| WTXE1007A<br>1003                                         | Amplifier                      | HP                 | 8447F        | 2944A038<br>69 | 2026-02-05 | 2027-02-04 |
| WTXE1104A<br>1034-1                                       | Coaxial Cable                  | /                  | RC_6G-N-M    | /              | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1034-2                                       | Coaxial Cable                  | /                  | RC_6G-N-M    | /              | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1034-3                                       | Coaxial Cable                  | /                  | RC_6G-N-M    | /              | 2026-02-23 | 2027-02-22 |
| <input checked="" type="checkbox"/> Chamber C: Above 1GHz |                                |                    |              |                |            |            |
| WTXE1093A                                                 | EMI Test                       | Rohde &            | ESIB 26      | 100401         | 2026-02-05 | 2027-02-04 |

|                                                       |                      |                    |             |                 |            |            |
|-------------------------------------------------------|----------------------|--------------------|-------------|-----------------|------------|------------|
| 1001                                                  | Receiver             | Schwarz            |             |                 |            |            |
| WTXE1103A<br>1005                                     | Horn Antenna         | POAM               | RTF-118A    | 1820            | 2025-06-13 | 2027-06-12 |
| WTXE1103A<br>1006                                     | Amplifier            | Tonscend           | TAP01018050 | AP22E806<br>235 | 2026-02-05 | 2027-02-04 |
| WTXE1010A<br>1010                                     | DRG Horn<br>Antenna  | A.H. SYSTEMS       | SAS-574     | 571             | 2026-02-10 | 2027-02-09 |
| WTXE1003A<br>1001                                     | Pre-amplifier        | Schwarzbeck        | BBV 9721    | 9721-031        | 2026-02-05 | 2027-02-04 |
| WTXE1104A<br>1035-1                                   | Coaxial Cable        | /                  | RC-18G-N-M  | /               | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1035-2                                   | Coaxial Cable        | /                  | RC-18G-N-M  | /               | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1035-3                                   | Coaxial Cable        | /                  | RC-18G-N-M  | /               | 2026-02-23 | 2027-02-22 |
| <input type="checkbox"/> Conducted Room 1#            |                      |                    |             |                 |            |            |
| WTXE1104A<br>1029                                     | EMI Test<br>Receiver | Rohde &<br>Schwarz | ESCI        | 100525          | 2025-11-25 | 2026-11-24 |
| WTXE1002A<br>1001                                     | Pulse Limiter        | Rohde &<br>Schwarz | ESH3-Z2     | 100911          | 2026-02-05 | 2027-02-04 |
| WTXE1003A<br>1001                                     | AC LISN              | Schwarz beck       | NSLK8126    | 8126-279        | 2026-02-05 | 2027-02-04 |
| WTXE1104A<br>1036                                     | Coaxial Cable        | /                  | RG 316      | /               | 2026-02-23 | 2027-02-22 |
| WTXE1104A<br>1038                                     | Coaxial Cable        | /                  | 6MRFC-DP    | /               | 2026-02-23 | 2027-02-22 |
| <input checked="" type="checkbox"/> Conducted Room 2# |                      |                    |             |                 |            |            |
| WTXE1001A<br>1004                                     | EMI Test<br>Receiver | Rohde &<br>Schwarz | ESPI        | 101259          | 2026-02-05 | 2027-02-04 |
| WTXE1003A<br>1003                                     | LISN                 | Rohde &<br>Schwarz | ENV 216     | 100097          | 2026-02-05 | 2027-02-04 |
| WTXE1104A<br>1037                                     | Coaxial Cable        | /                  | RG 316      | /               | 2026-02-23 | 2027-02-22 |

| Software List                                               |              |           |         |
|-------------------------------------------------------------|--------------|-----------|---------|
| Description                                                 | Manufacturer | Model     | Version |
| EMI Test Software/EZ-EMC<br>(Radiated Emission A)           | Farad        | RA-03A1   | 1.1.4.2 |
| EMI Test Software/EZ-EMC<br>(Radiated Emission B)           | Farad        | RA-03A1   | 1.1.4.2 |
| EMI Test Software/EZ-EMC<br>(Radiated Emission C)           | Farad        | RA-03A1-2 | 1.1.4.2 |
| EMI Test Software/EZ-EMC<br>(Conducted Emission Room<br>1#) | Farad        | 3A1*CE-RE | 1.1.4.3 |
| EMI Test Software/EZ-EMC<br>(Conducted Emission Room<br>2#) | Farad        | 3A1*CE-RE | 1.1.4.3 |

\*Remark: indicates software version used in the compliance certification testing.

## 2. SUMMARY OF TEST RESULTS

---

| FCC Rules     | Description of Test Item     | Result    |
|---------------|------------------------------|-----------|
| §15.203       | Antenna Requirement          | Compliant |
| §15.205       | Restricted Band of Operation | N/A       |
| §15.207(a)    | Conducted Emission           | Compliant |
| §15.209(a)(f) | Radiated Spurious Emissions  | Compliant |
| §15.249(a)    | Field Strength of Emissions  | N/A       |
| §15.249(d)    | Out of Band Emission         | Compliant |
| §15.215(c)    | Emission Bandwidth           | N/A       |

N/A: Not applicable.

Class II Permissive Change: Adding a host.

Note: Report is for Class II Permissive Change only. Updated test data include Antenna Requirement, Conducted Emission, Radiated Spurious Emissions and Out of Band Emission. The test data refer to Original equipment (FCC ID: 2BTE6HJRF), the original FCC ID issue date: 12/18/2025.

### **3. Antenna Requirements**

---

#### **3.1 Standard Applicable**

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **3.2 Test Result**

This product has a PCB antenna, fulfill the requirement of this section.

## 4. Radiated Emissions

---

### 4.1 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental Frequency | Field strength of fundamental<br>(milli-volts/meter) | Field strength of Harmonics<br>(micro-volts/meter) |
|-----------------------|------------------------------------------------------|----------------------------------------------------|
| 902-928MHz            | 50                                                   | 500                                                |
| 2400-2483.5MHz        | 50                                                   | 500                                                |
| 5725-5875MHz          | 50                                                   | 500                                                |
| 24.0-24.25GHz         | 250                                                  | 2500                                               |

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

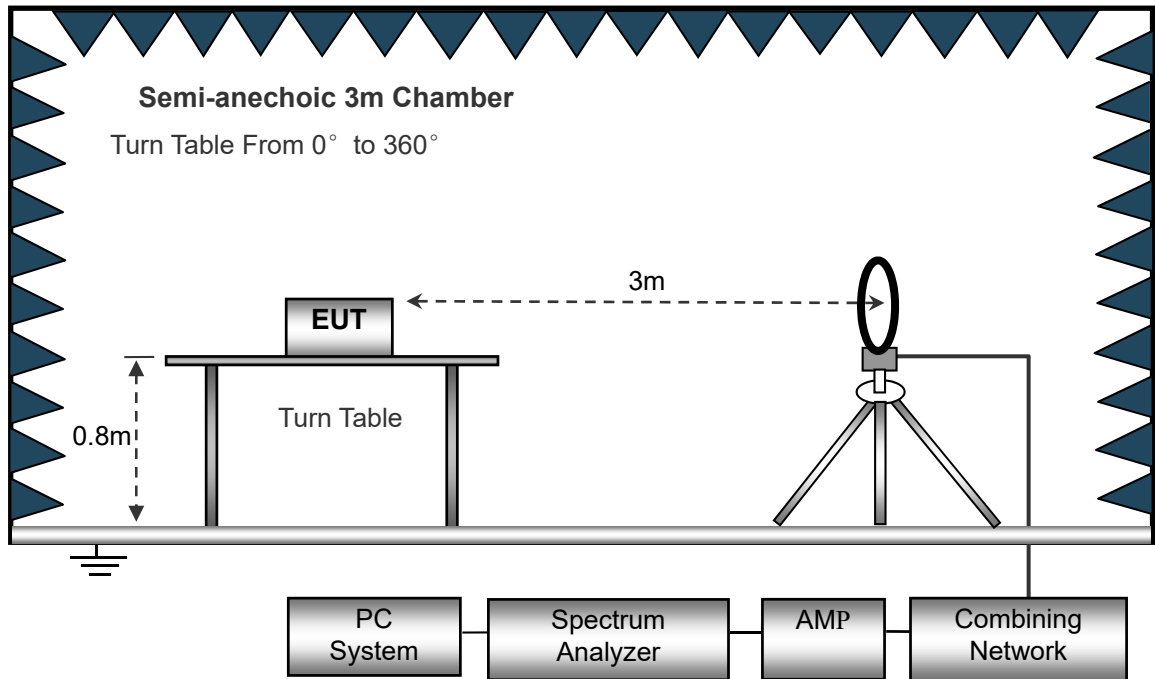
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 4.2 Test Procedure

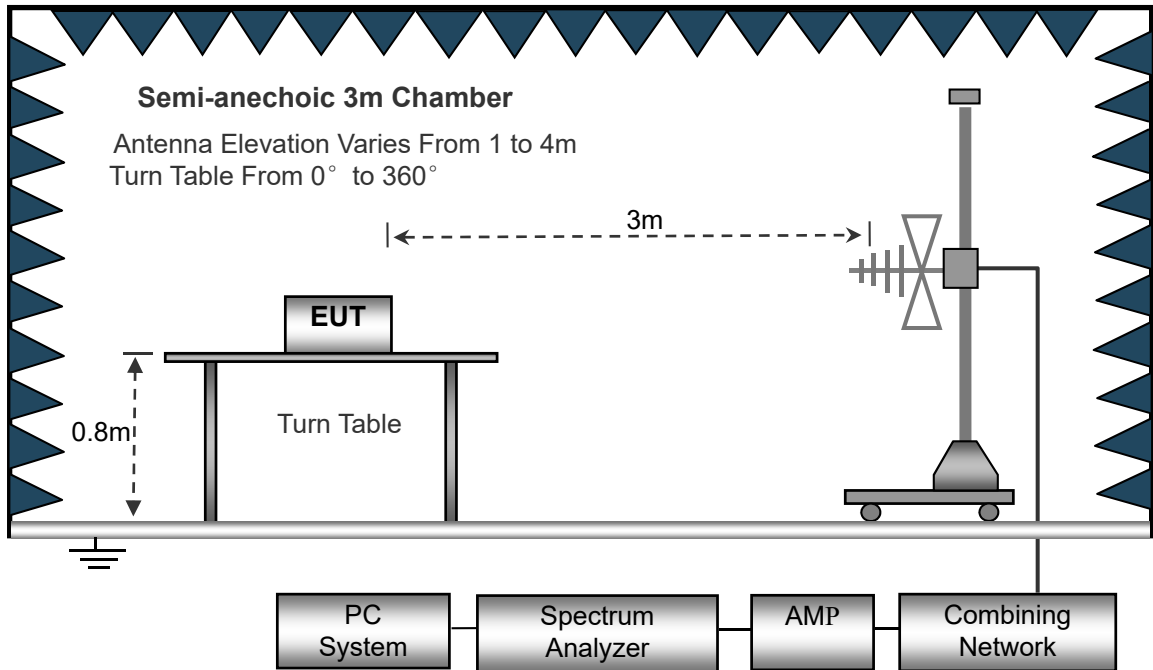
The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

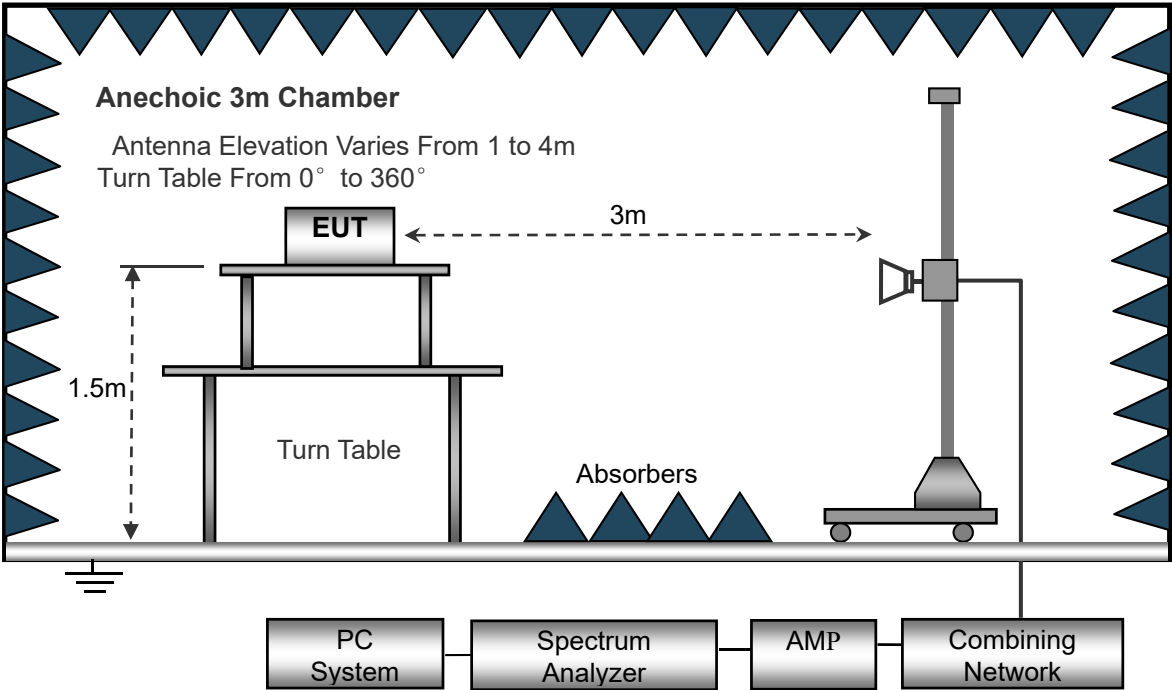
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz  
RBW=10kHz,  
VBW =30kHz  
Sweep time= Auto  
Trace = max hold  
Detector function = peak

Frequency :30MHz-1GHz  
RBW=120kHz,  
VBW=300kHz  
Sweep time= Auto  
Trace = max hold  
Detector function = peak, QP

Frequency :Above 1GHz  
RBW=1MHz,  
VBW=3MHz(Peak), 10Hz(AV)  
Sweep time= Auto  
Trace = max hold  
Detector function = peak, AV

### 4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

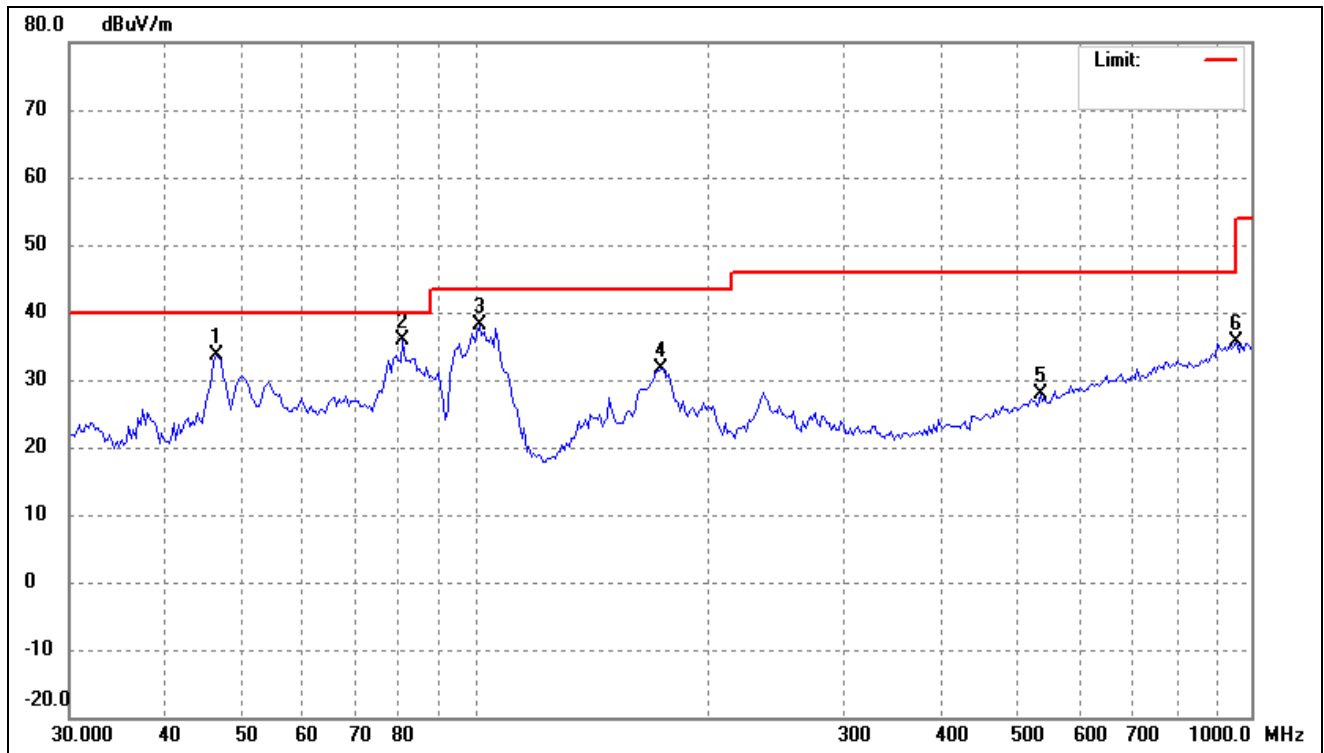
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

### 4.4 Summary of Test Results/Plots

*Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

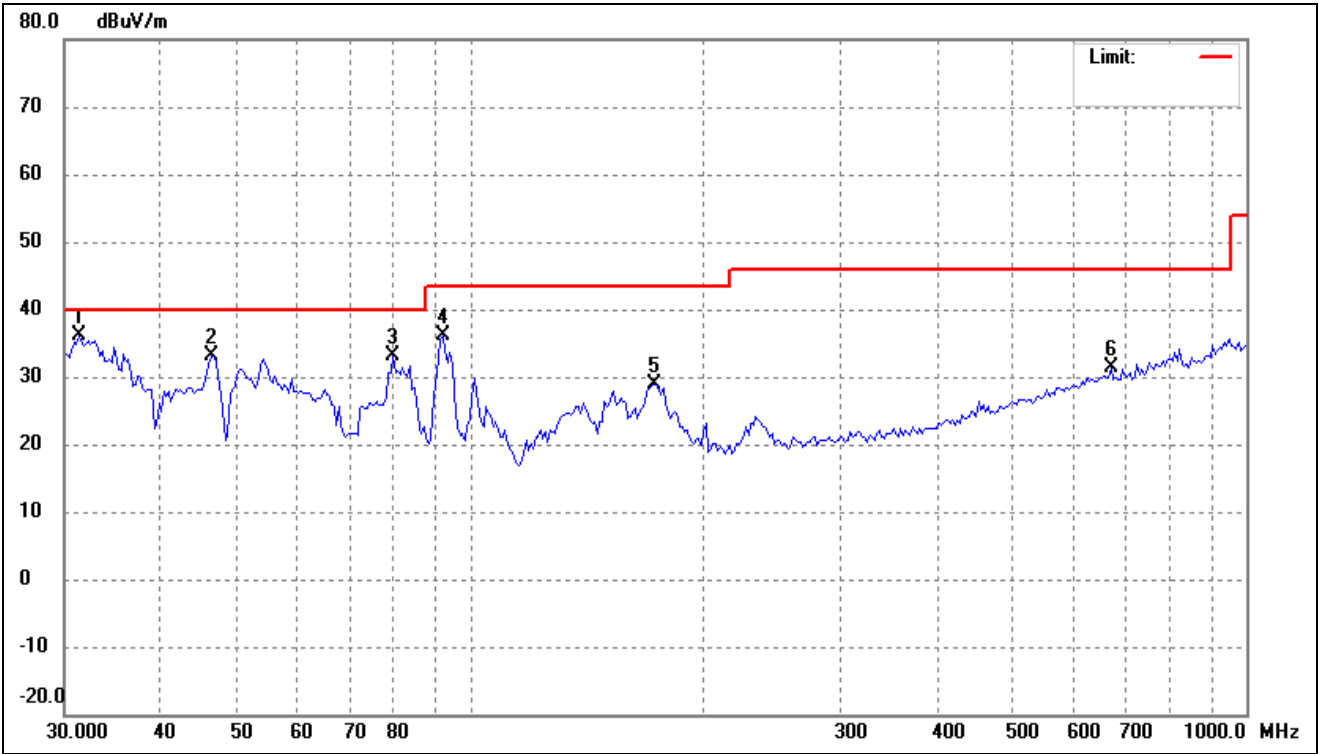
## ➤ Spurious Emissions Below 1GHz

|              |     |           |            |
|--------------|-----|-----------|------------|
| Test Channel | Low | Polarity: | Horizontal |
|--------------|-----|-----------|------------|



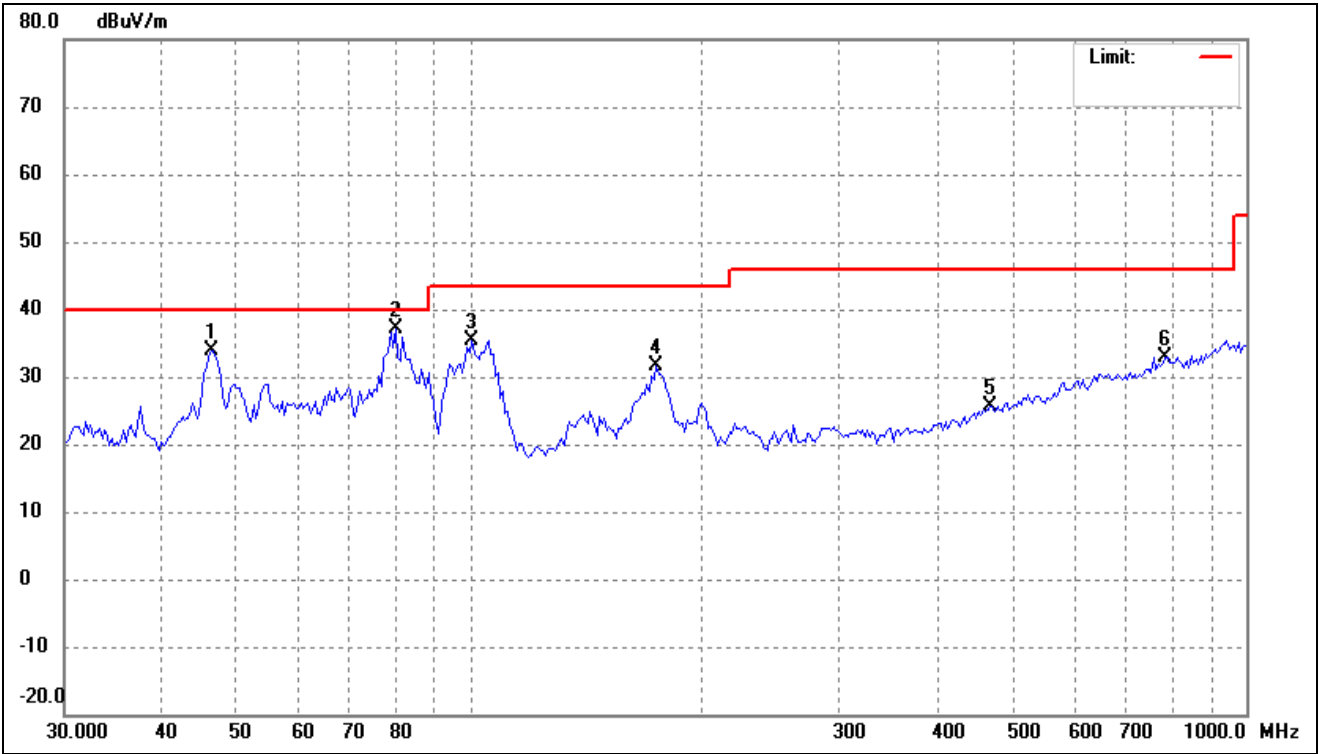
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 46.3806            | 41.91               | -8.32           | 33.59              | 40.00             | -6.41          | -             | -              | peak   |
| 2   | 80.8041            | 48.30               | -12.53          | 35.77              | 40.00             | -4.23          | -             | -              | peak   |
| 3   | 101.1796           | 50.69               | -12.65          | 38.04              | 43.50             | -5.46          | -             | -              | peak   |
| 4   | 173.8146           | 40.71               | -9.08           | 31.63              | 43.50             | -11.87         | -             | -              | peak   |
| 5   | 535.0376           | 30.76               | -2.86           | 27.90              | 46.00             | -18.10         | -             | -              | peak   |
| 6   | 958.7134           | 32.02               | 3.62            | 35.64              | 46.00             | -10.36         | -             | -              | peak   |

|              |     |           |          |
|--------------|-----|-----------|----------|
| Test Channel | Low | Polarity: | Vertical |
|--------------|-----|-----------|----------|



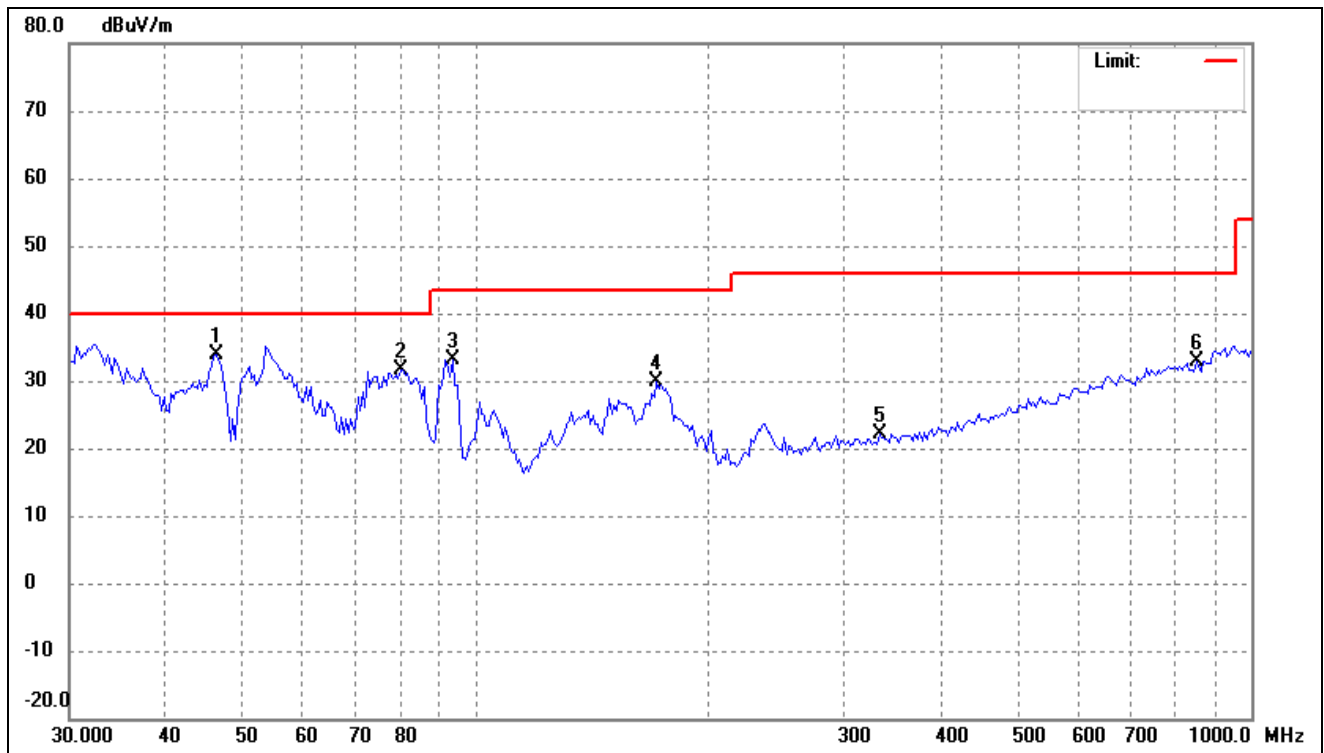
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 31.2919            | 45.80               | -9.66           | 36.14              | 40.00             | -3.86          | -             | -              | peak   |
| 2   | 46.3806            | 41.44               | -8.32           | 33.12              | 40.00             | -6.88          | -             | -              | peak   |
| 3   | 79.6764            | 45.49               | -12.28          | 33.21              | 40.00             | -6.79          | -             | -              | peak   |
| 4   | 92.3462            | 49.79               | -13.74          | 36.05              | 43.50             | -7.45          | -             | -              | peak   |
| 5   | 172.5975           | 37.96               | -8.96           | 29.00              | 43.50             | -14.50         | -             | -              | peak   |
| 6   | 669.9523           | 31.28               | 0.00            | 31.28              | 46.00             | -14.72         | -             | -              | peak   |

|              |        |           |            |
|--------------|--------|-----------|------------|
| Test Channel | Middle | Polarity: | Horizontal |
|--------------|--------|-----------|------------|



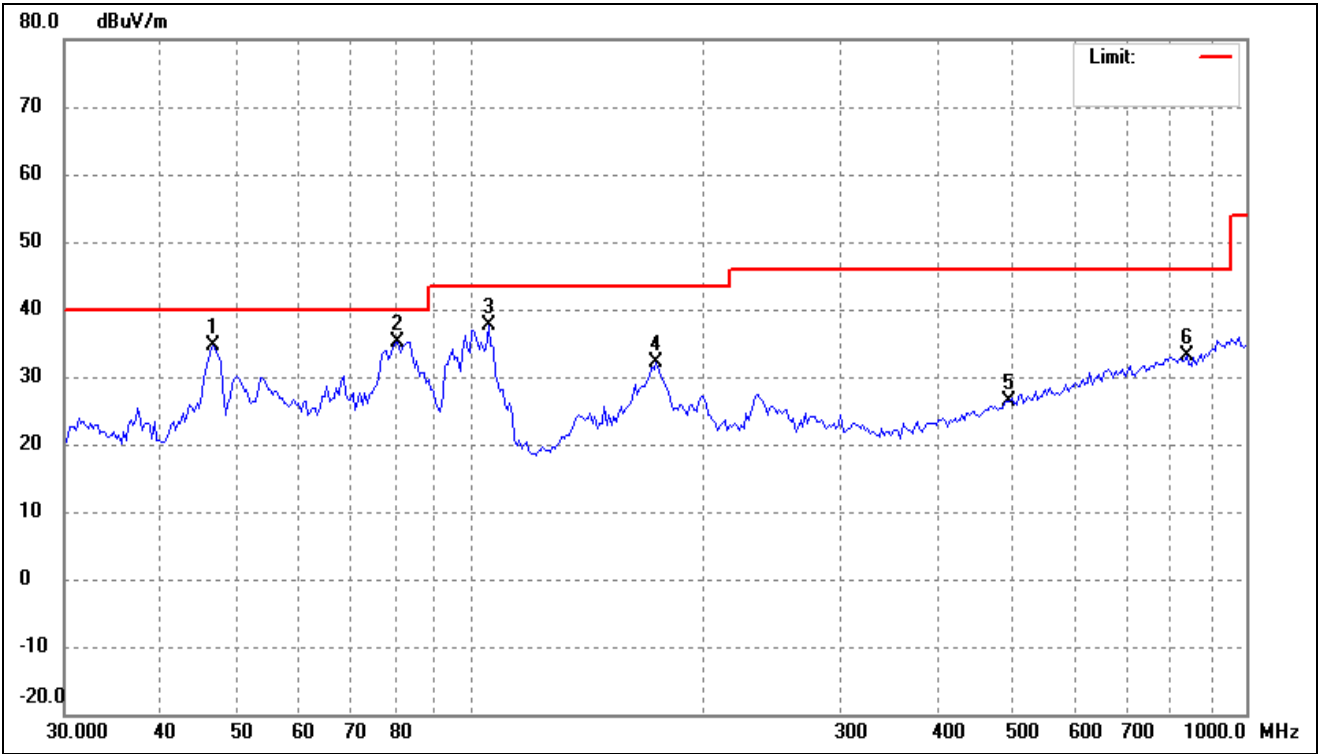
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 46.3806            | 42.10               | -8.32           | 33.78              | 40.00             | -6.22          | -             | -              | peak   |
| 2   | 80.2383            | 49.42               | -12.40          | 37.02              | 40.00             | -2.98          | -             | -              | peak   |
| 3   | 100.4711           | 48.24               | -12.77          | 35.47              | 43.50             | -8.03          | -             | -              | peak   |
| 4   | 173.8146           | 40.82               | -9.08           | 31.74              | 43.50             | -11.76         | -             | -              | peak   |
| 5   | 468.1650           | 29.95               | -4.40           | 25.55              | 46.00             | -20.45         | -             | -              | peak   |
| 6   | 787.4748           | 31.30               | 1.57            | 32.87              | 46.00             | -13.13         | -             | -              | peak   |

|              |        |           |          |
|--------------|--------|-----------|----------|
| Test Channel | Middle | Polarity: | Vertical |
|--------------|--------|-----------|----------|



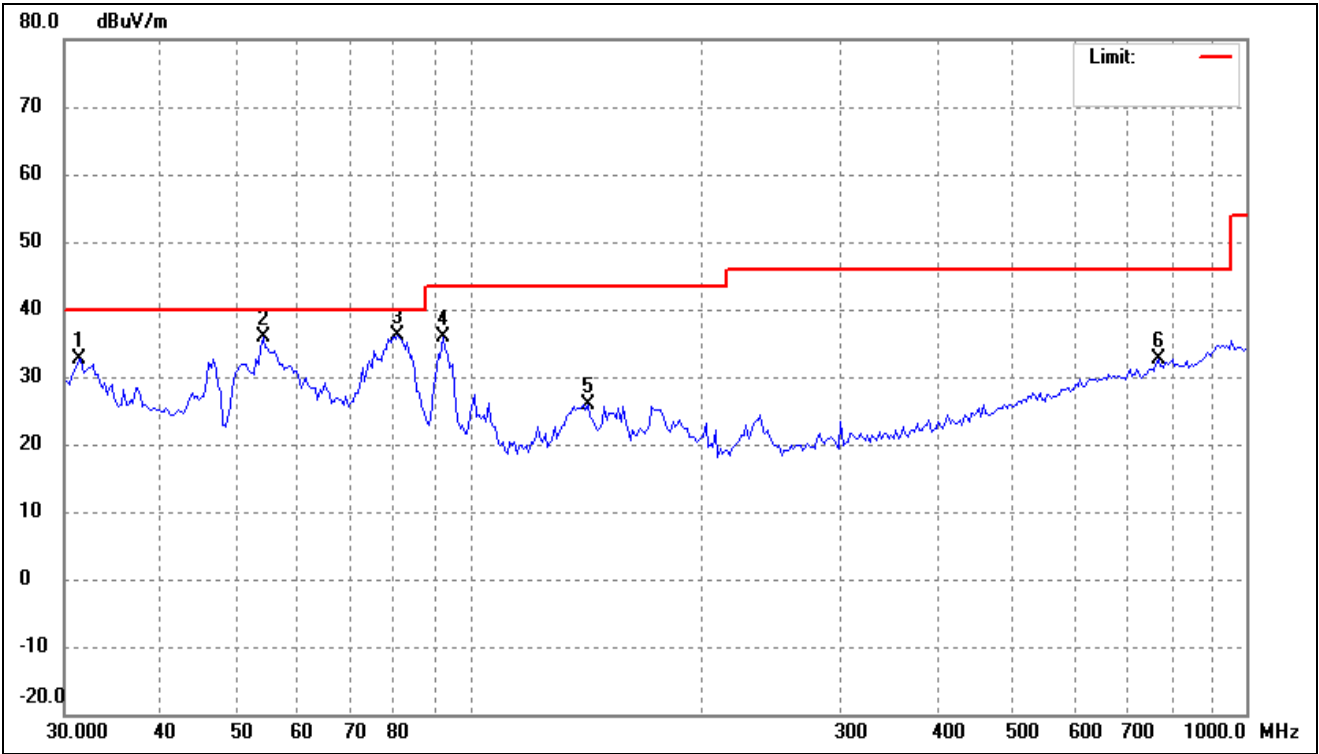
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 46.3806            | 42.08               | -8.32           | 33.76              | 40.00             | -6.24          | -             | -              | peak   |
| 2   | 80.2383            | 44.10               | -12.40          | 31.70              | 40.00             | -8.30          | -             | -              | peak   |
| 3   | 93.6532            | 46.79               | -13.69          | 33.10              | 43.50             | -10.40         | -             | -              | peak   |
| 4   | 171.3889           | 38.66               | -8.86           | 29.80              | 43.50             | -13.70         | -             | -              | peak   |
| 5   | 331.7857           | 29.77               | -7.52           | 22.25              | 46.00             | -23.75         | -             | -              | peak   |
| 6   | 850.7602           | 31.21               | 1.65            | 32.86              | 46.00             | -13.14         | -             | -              | peak   |

|              |      |           |            |
|--------------|------|-----------|------------|
| Test Channel | High | Polarity: | Horizontal |
|--------------|------|-----------|------------|



| No. | Frequency | Reading  | Correct | Result   | Limit    | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)   | ( )    | (cm)   |        |
| 1   | 46.7077   | 42.95    | -8.32   | 34.63    | 40.00    | -5.37  | -      | -      | peak   |
| 2   | 80.8041   | 47.75    | -12.53  | 35.22    | 40.00    | -4.78  | -      | -      | peak   |
| 3   | 105.5369  | 49.65    | -11.97  | 37.68    | 43.50    | -5.82  | -      | -      | peak   |
| 4   | 173.8146  | 41.21    | -9.08   | 32.13    | 43.50    | -11.37 | -      | -      | peak   |
| 5   | 495.2379  | 30.03    | -3.70   | 26.33    | 46.00    | -19.67 | -      | -      | peak   |
| 6   | 838.8870  | 31.57    | 1.66    | 33.23    | 46.00    | -12.77 | -      | -      | peak   |

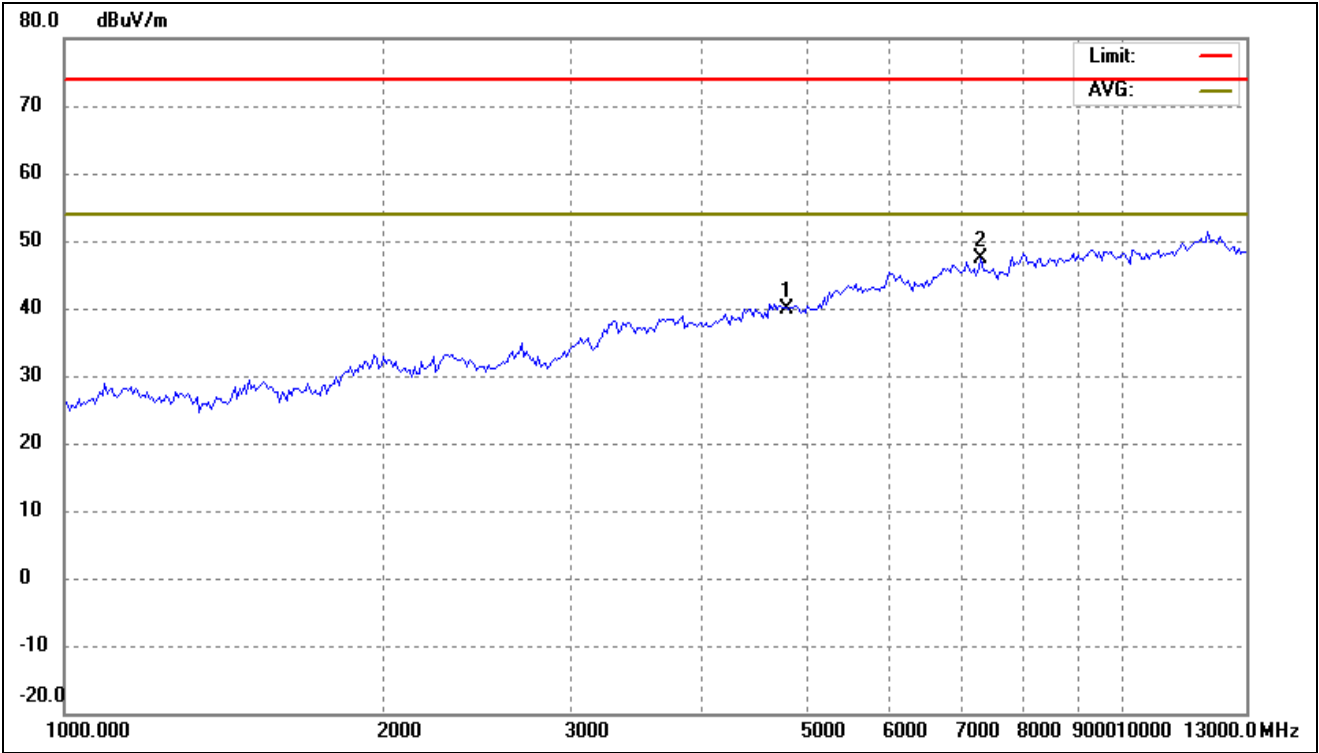
|              |      |           |          |
|--------------|------|-----------|----------|
| Test Channel | High | Polarity: | Vertical |
|--------------|------|-----------|----------|



| No. | Frequency | Reading  | Correct | Result   | Limit    | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)   | ( )    | (cm)   |        |
| 1   | 31.2919   | 42.35    | -9.66   | 32.69    | 40.00    | -7.31  | -      | -      | peak   |
| 2   | 54.1349   | 44.43    | -8.44   | 35.99    | 40.00    | -4.01  | -      | -      | peak   |
| 3   | 80.8041   | 48.76    | -12.53  | 36.23    | 40.00    | -3.77  | -      | -      | peak   |
| 4   | 92.3462   | 49.61    | -13.74  | 35.87    | 43.50    | -7.63  | -      | -      | peak   |
| 5   | 141.7694  | 34.74    | -8.84   | 25.90    | 43.50    | -17.60 | -      | -      | peak   |
| 6   | 771.0475  | 31.31    | 1.37    | 32.68    | 46.00    | -13.32 | -      | -      | peak   |

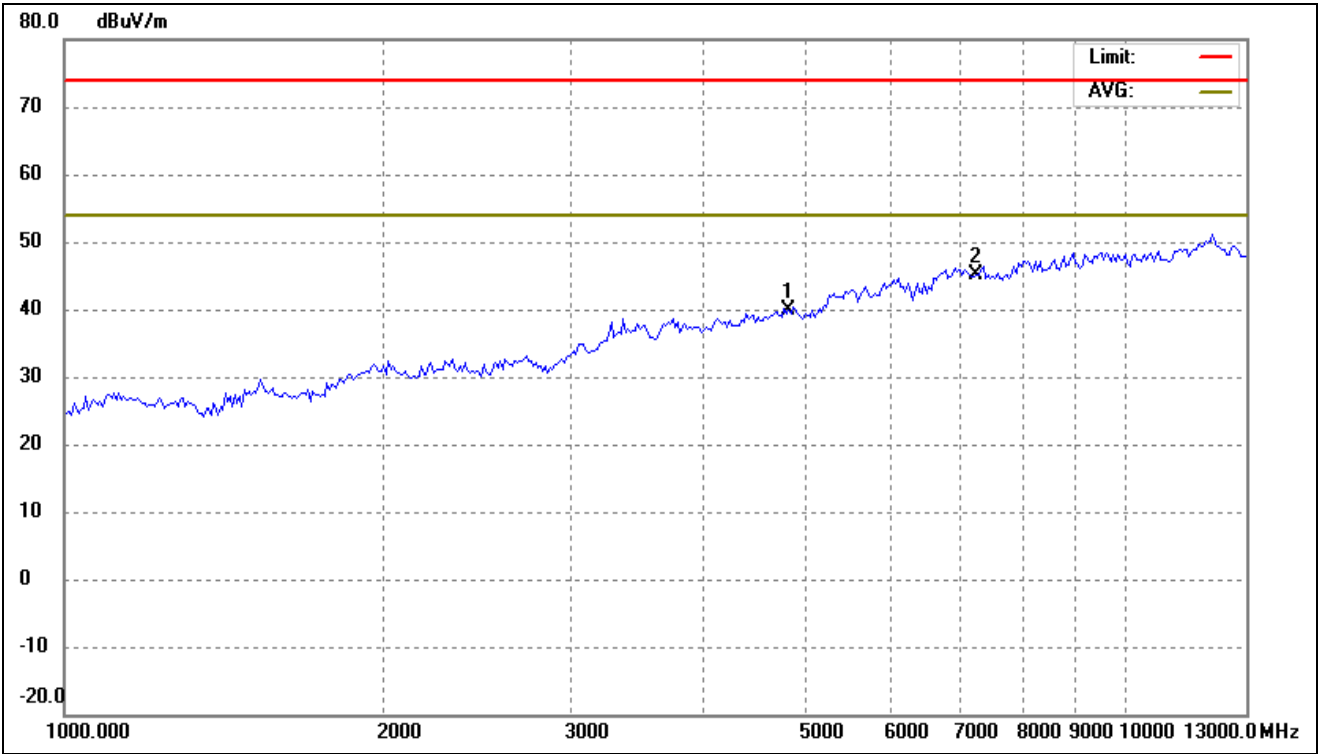
Spurious Emissions Above 1GHz

|              |     |           |            |
|--------------|-----|-----------|------------|
| Test Channel | Low | Polarity: | Horizontal |
|--------------|-----|-----------|------------|



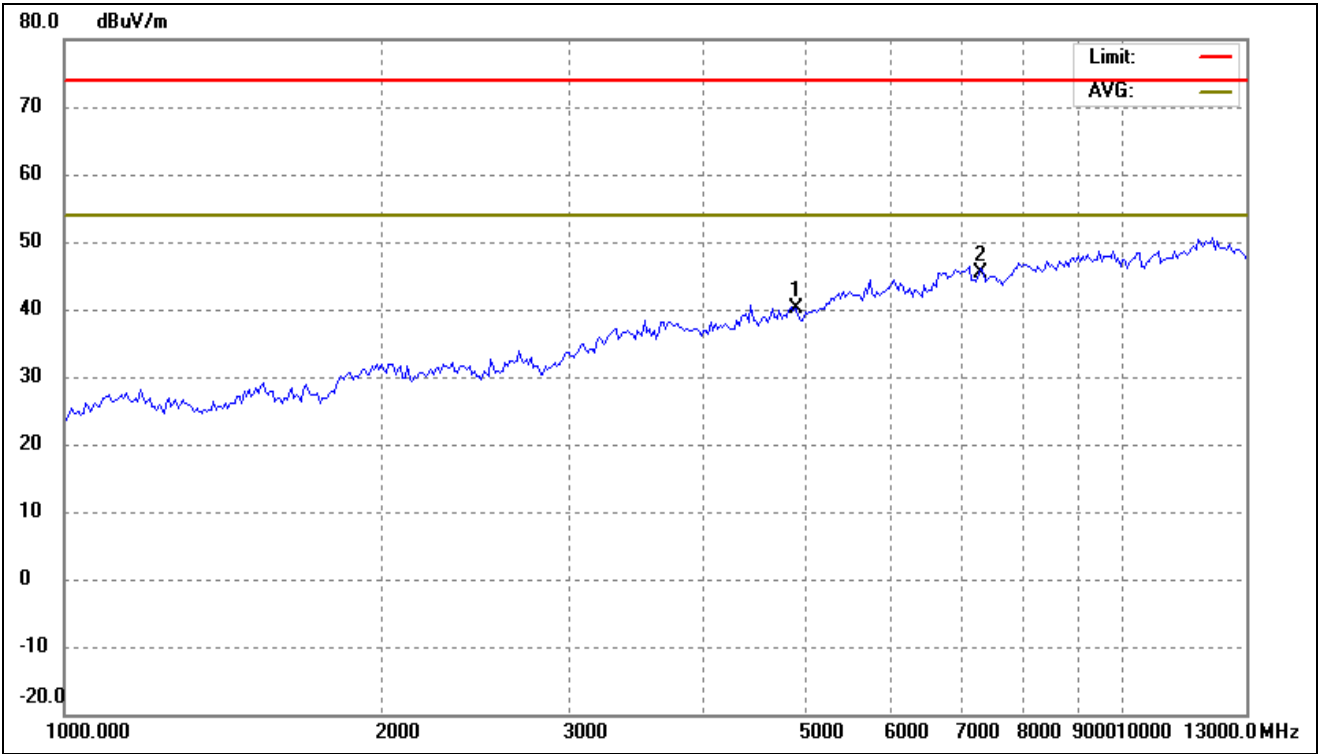
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 4810.000           | 52.06               | -12.06          | 40.00              | 74.00             | -34.00         | -             | -              | peak   |
| 2   | 7310.044           | 52.43               | -4.97           | 47.46              | 74.00             | -26.54         | -             | -              | peak   |

|              |     |           |          |
|--------------|-----|-----------|----------|
| Test Channel | Low | Polarity: | Vertical |
|--------------|-----|-----------|----------|



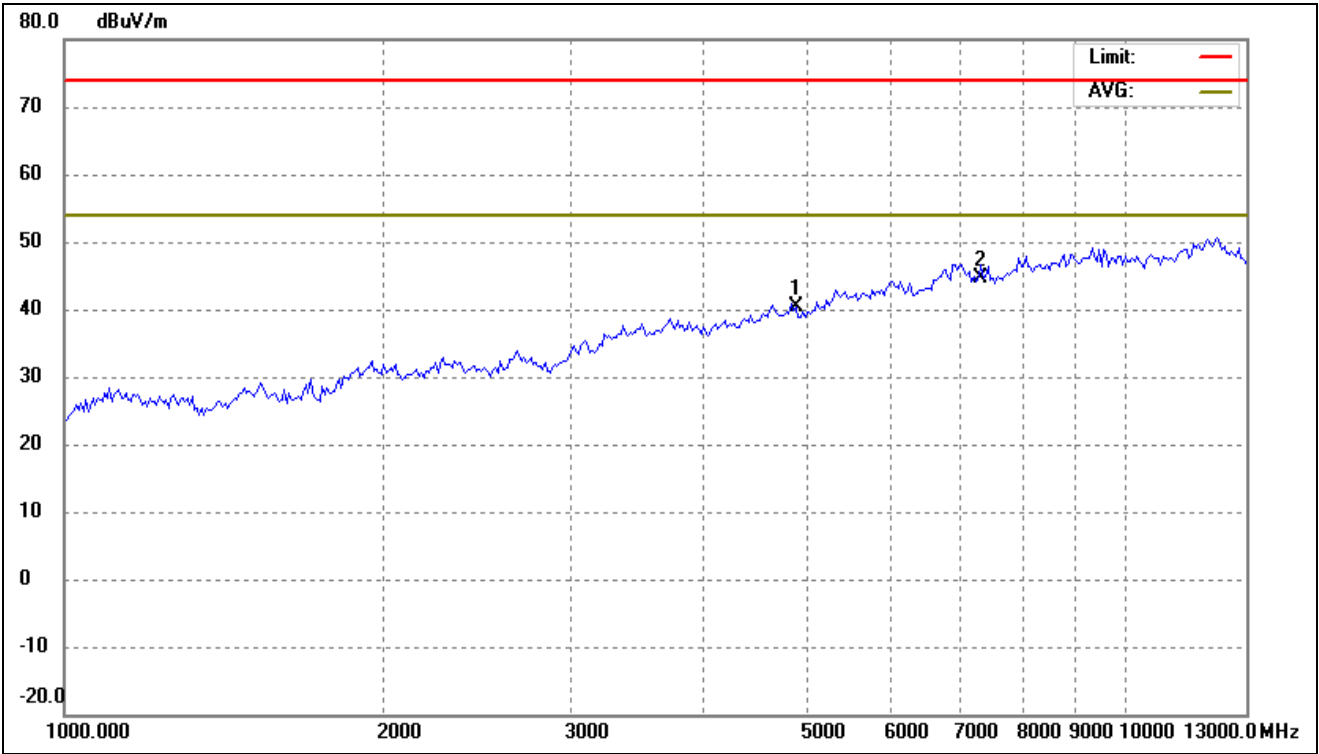
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 4810.000           | 51.91               | -12.06          | 39.85              | 74.00             | -34.15         | -             | -              | peak   |
| 2   | 7215.000           | 51.09               | -5.99           | 45.10              | 74.00             | -28.90         | -             | -              | peak   |

|              |        |           |            |
|--------------|--------|-----------|------------|
| Test Channel | Middle | Polarity: | Horizontal |
|--------------|--------|-----------|------------|



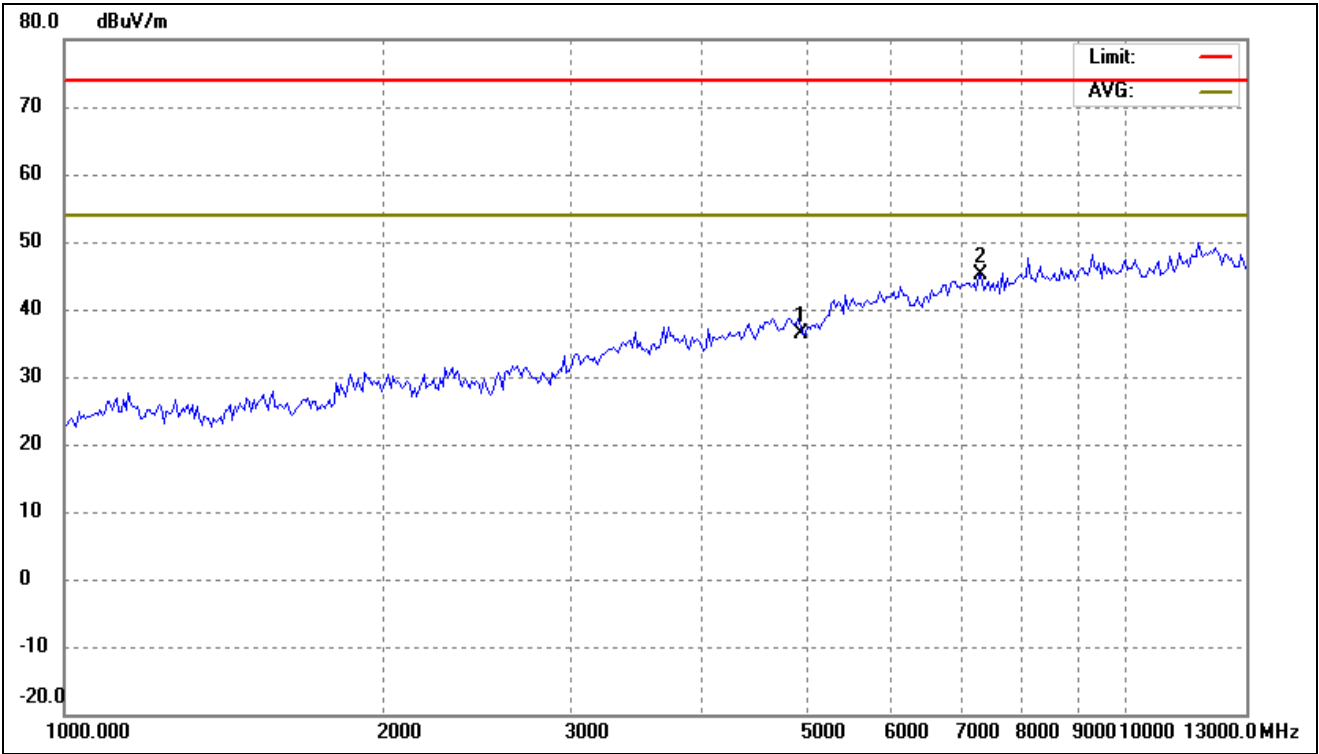
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 4880.000           | 51.88               | -11.83          | 40.05              | 74.00             | -33.95         | -             | -              | peak   |
| 2   | 7320.000           | 50.45               | -5.05           | 45.40              | 74.00             | -28.60         | -             | -              | peak   |

|              |        |           |          |
|--------------|--------|-----------|----------|
| Test Channel | Middle | Polarity: | Vertical |
|--------------|--------|-----------|----------|



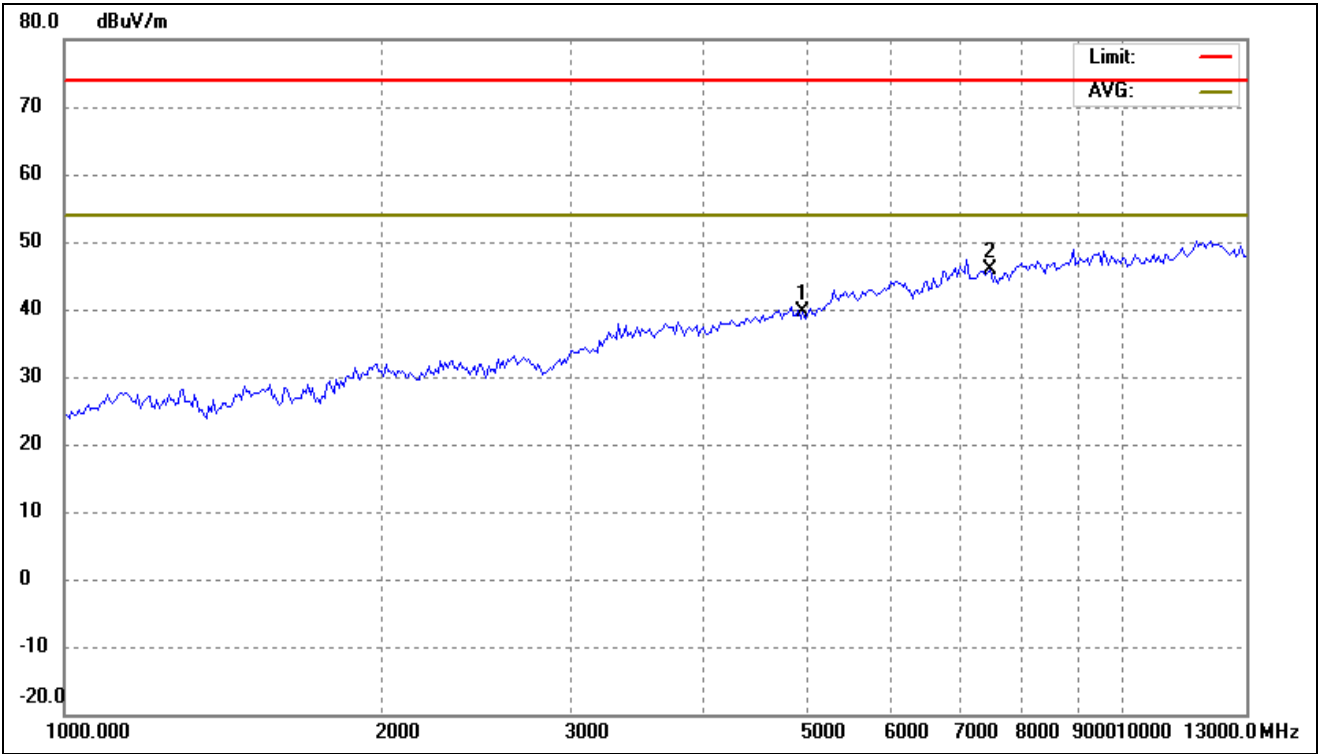
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 4880.000           | 52.23               | -11.83          | 40.40              | 74.00             | -33.60         | -             | -              | peak   |
| 2   | 7320.000           | 49.80               | -5.05           | 44.75              | 74.00             | -29.25         | -             | -              | peak   |

|              |      |           |            |
|--------------|------|-----------|------------|
| Test Channel | High | Polarity: | Horizontal |
|--------------|------|-----------|------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 4960.000           | 49.11               | -12.72          | 36.39              | 74.00             | -37.61         | -             | -              | peak   |
| 2   | 7310.044           | 50.11               | -4.97           | 45.14              | 74.00             | -28.86         | -             | -              | peak   |

|              |      |           |          |
|--------------|------|-----------|----------|
| Test Channel | High | Polarity: | Vertical |
|--------------|------|-----------|----------|



| No. | Frequency | Reading  | Correct | Result   | Limit    | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)   | ( )    | (cm)   |        |
| 1   | 4960.000  | 52.25    | -12.72  | 39.53    | 74.00    | -34.47 | -      | -      | peak   |
| 2   | 7440.000  | 51.81    | -5.97   | 45.84    | 74.00    | -28.16 | -      | -      | peak   |

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5<sup>th</sup> Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz..

## 5. Out of Band Emissions

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### 5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### 5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

### 5.3 Summary of Test Results/Plots

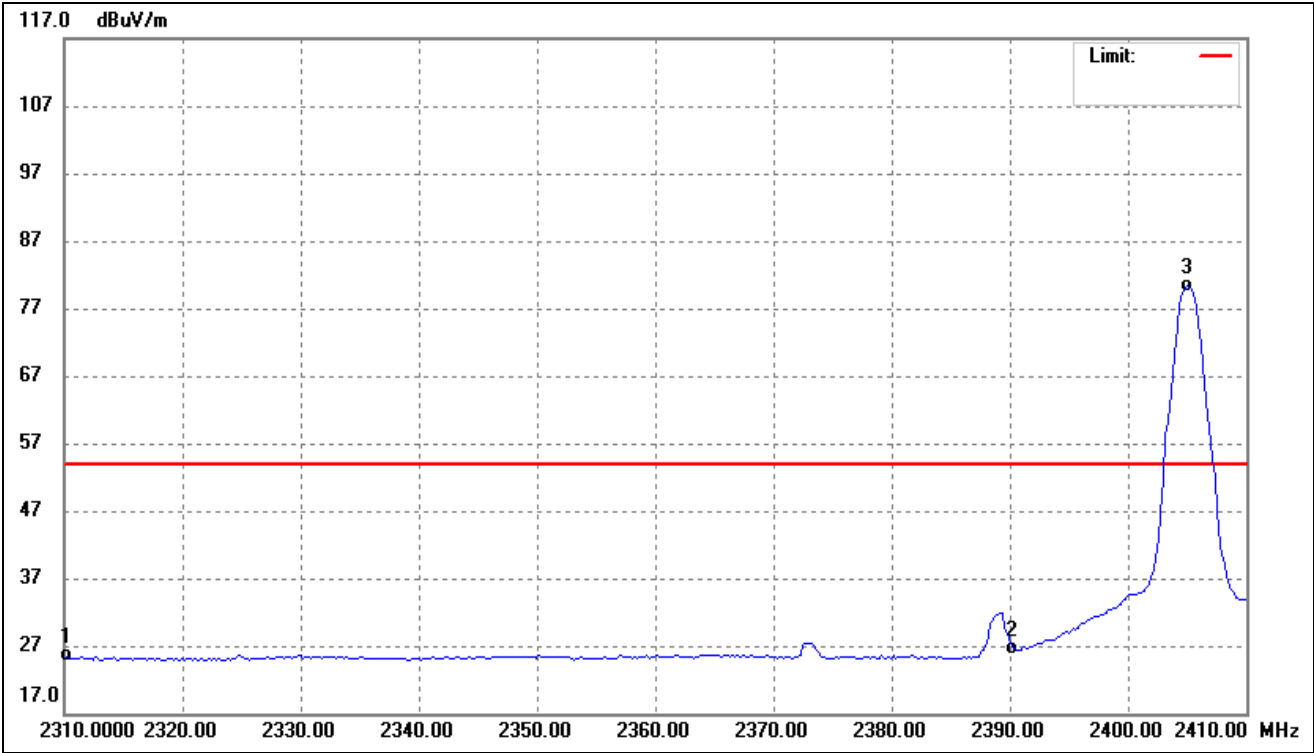
| Test mode | Frequency | Limit      | Result |
|-----------|-----------|------------|--------|
|           | MHz       | dBuV / dBc |        |
| Lowest    | 2310.00   | <54dBuV    | Pass   |
|           | 2390.00   | <54dBuV    | Pass   |
|           | 2400.00   | <54dBuV    | Pass   |
| Highest   | 2483.50   | <54dBuV    | Pass   |
|           | 2500.00   | <54dBuV    | Pass   |

The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

Please refer to the test plots as below.

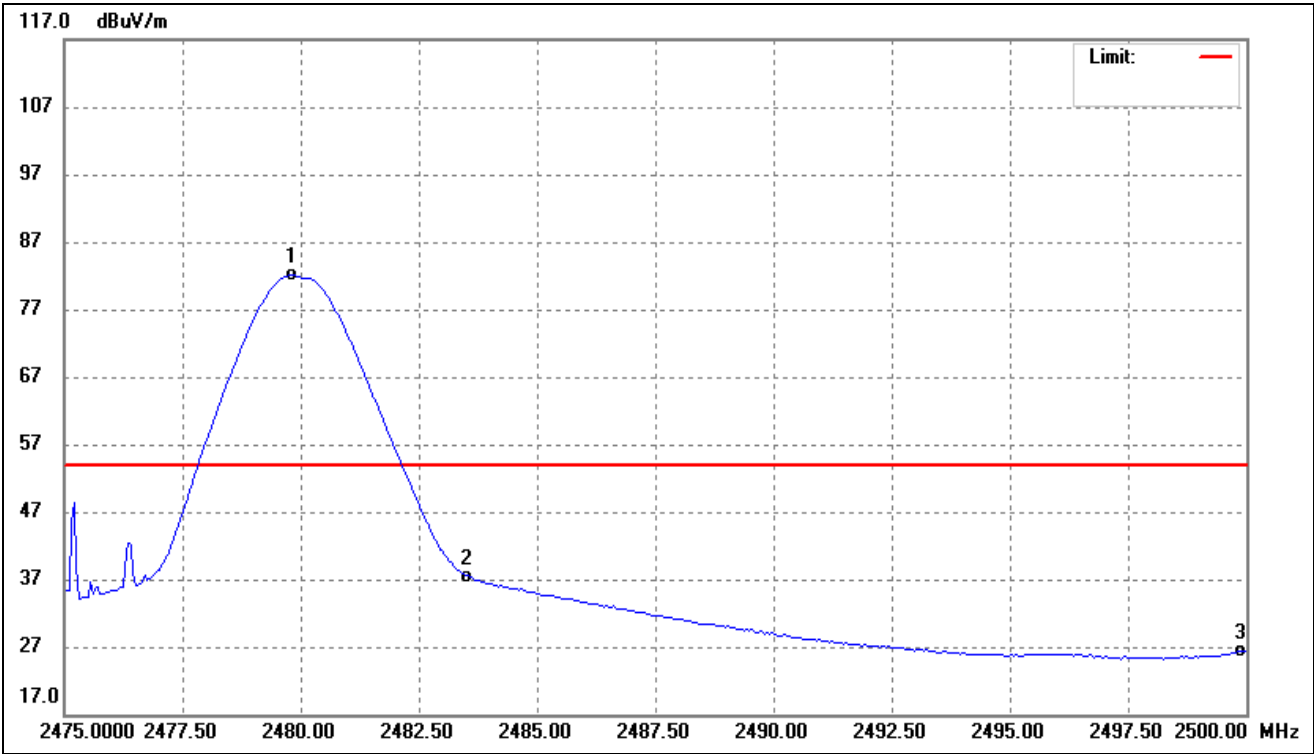
RBW: 1MHz; VBW: 3MHz

|              |     |           |                         |
|--------------|-----|-----------|-------------------------|
| Test Channel | Low | Polarity: | Horizontal (worst case) |
|--------------|-----|-----------|-------------------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark        |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|
| 1   | 2310.000           | 44.46               | -18.74          | 25.72              | 54.00             | -28.28         | Ave Detector  |
|     | 2310.000           | 56.85               | -18.74          | 38.11              | 74.00             | -35.89         | Peak Detector |
| 2   | 2390.000           | 45.23               | -18.68          | 26.55              | 54.00             | -27.45         | Ave Detector  |
|     | 2390.000           | 66.88               | -18.68          | 48.20              | 74.00             | -25.80         | Peak Detector |
| 3   | 2404.888           | 98.94               | -18.68          | 80.26              | /                 | /              | Ave Detector  |
|     | 2404.684           | 102.90              | -18.68          | 84.22              | /                 | /              | Peak Detector |

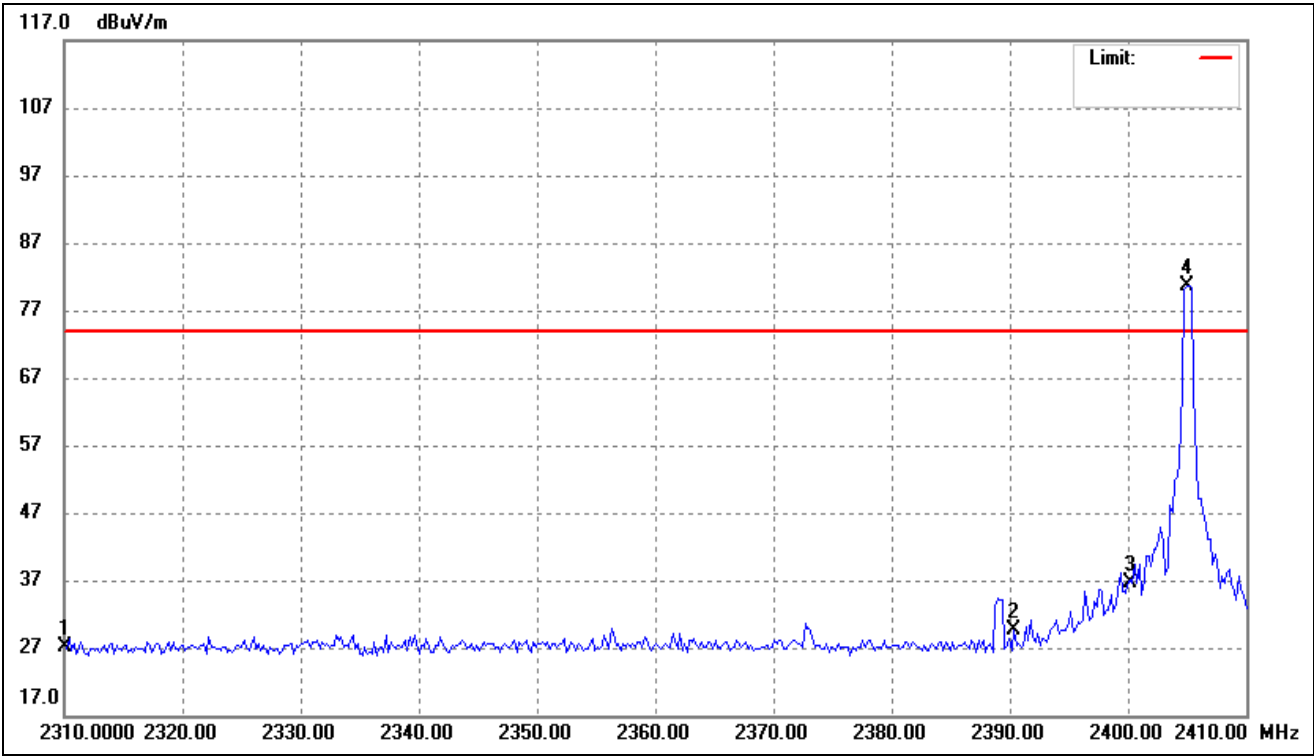
|              |      |           |                         |
|--------------|------|-----------|-------------------------|
| Test Channel | High | Polarity: | Horizontal (worst case) |
|--------------|------|-----------|-------------------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark        |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|
| 1   | 2479.790           | 100.57              | -18.52          | 82.05              | /                 | /              | Ave Detector  |
|     | 2480.140           | 100.84              | -18.52          | 82.32              | /                 | /              | Peak Detector |
| 2   | 2483.500           | 55.86               | -18.54          | 37.32              | 54.00             | -16.68         | Ave Detector  |
|     | 2483.500           | 78.06               | -18.54          | 59.52              | 74.00             | -14.48         | Peak Detector |
| 3   | 2500.000           | 45.11               | -18.64          | 26.47              | 54.00             | -27.53         | Ave Detector  |
|     | 2500.000           | 62.59               | -18.64          | 43.95              | 74.00             | -30.05         | Peak Detector |

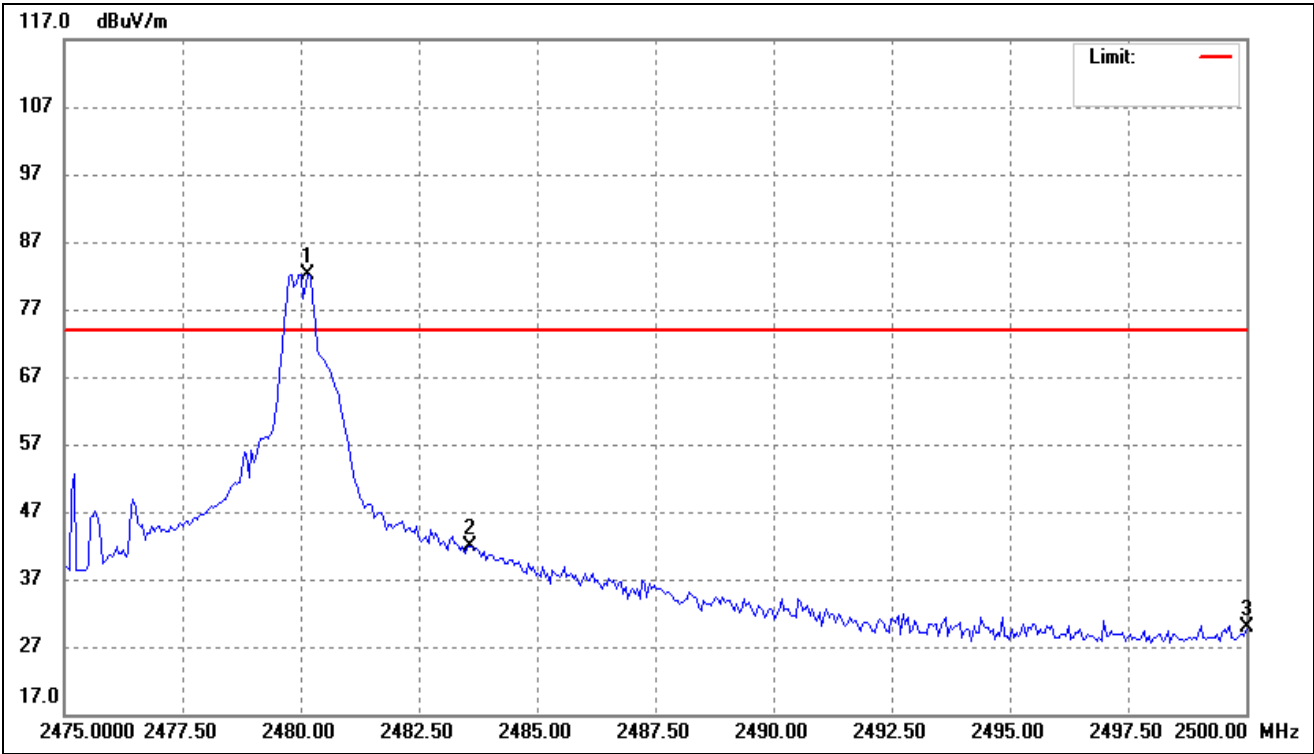
Band edge  
RBW: 100kHz; VBW: 300kHz

|              |     |           |                         |
|--------------|-----|-----------|-------------------------|
| Test Channel | Low | Polarity: | Horizontal (worst case) |
|--------------|-----|-----------|-------------------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark        |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|
| 1   | 2310.000           | 45.77               | -18.74          | 27.03              | 74.00             | -46.97         | Ave Detector  |
|     | 2310.000           | 35.95               | -18.74          | 17.21              | 54.00             | -36.79         | Peak Detector |
| 2   | 2390.000           | 48.34               | -18.68          | 29.66              | 74.00             | -44.34         | Ave Detector  |
|     | 2390.000           | 36.44               | -18.68          | 17.76              | 54.00             | -36.24         | Peak Detector |
| 3   | 2400.000           | 55.25               | -18.72          | 36.53              | 74.00             | -37.47         | Ave Detector  |
|     | 2400.000           | 44.04               | -18.72          | 25.32              | 54.00             | -28.68         | Peak Detector |
| 4   | 2404.888           | 99.29               | -18.68          | 80.61              | /                 | /              | Ave Detector  |
|     | 2404.888           | 98.02               | -18.68          | 79.34              | /                 | /              | Peak Detector |

|              |      |           |                         |
|--------------|------|-----------|-------------------------|
| Test Channel | High | Polarity: | Horizontal (worst case) |
|--------------|------|-----------|-------------------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark        |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|
| 1   | 2480.140           | 100.68              | -18.52          | 82.16              | /                 | /              | Ave Detector  |
|     | 2479.790           | 100.27              | -18.52          | 81.75              | /                 | /              | Peak Detector |
| 2   | 2483.500           | 60.36               | -18.54          | 41.82              | 74.00             | -32.18         | Ave Detector  |
|     | 2483.500           | 46.42               | -18.54          | 27.88              | 54.00             | -26.12         | Peak Detector |
| 3   | 2500.000           | 48.58               | -18.64          | 29.94              | 74.00             | -44.06         | Ave Detector  |
|     | 2500.000           | 36.38               | -18.64          | 17.74              | 54.00             | -36.26         | Peak Detector |

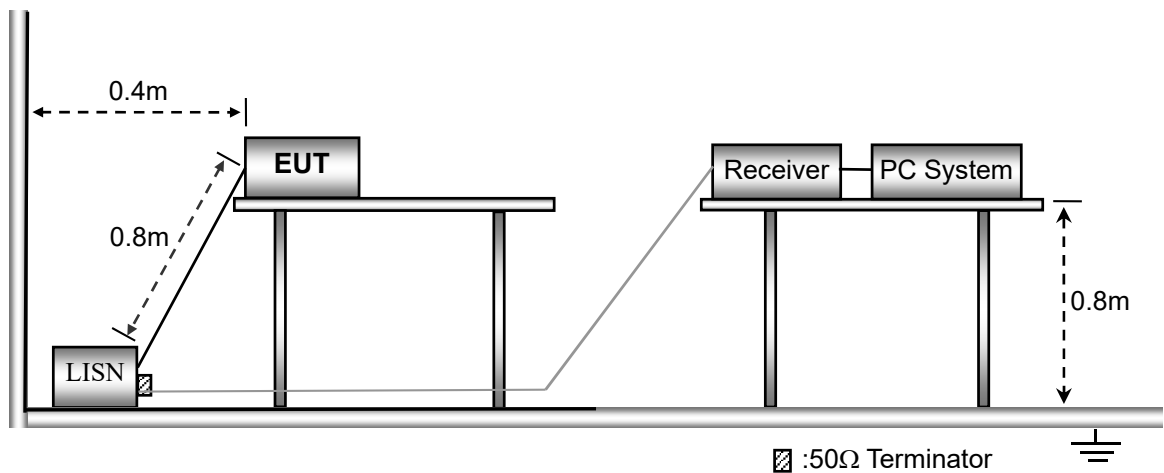
## 6. Conducted Emissions

### 6.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

### 6.2 Basic Test Setup Block Diagram



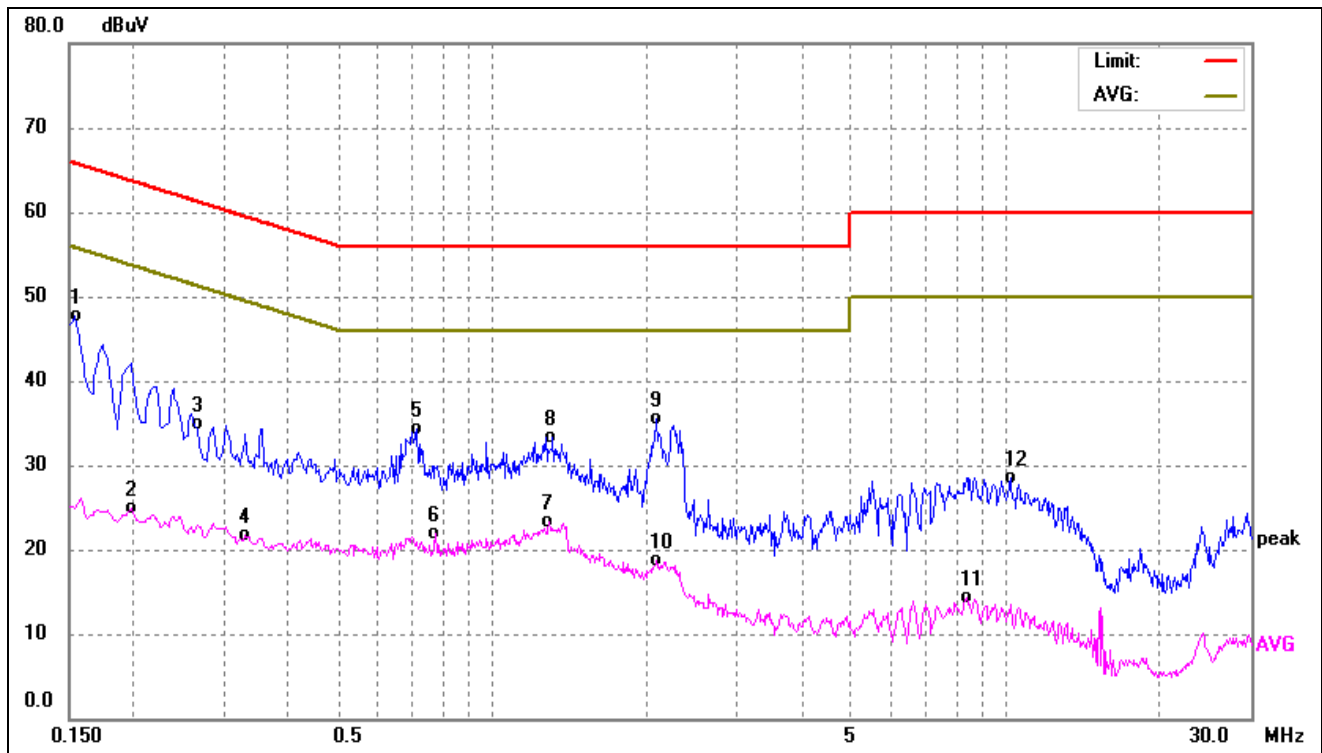
### 6.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

|                                    |        |
|------------------------------------|--------|
| Start Frequency .....              | 150kHz |
| Stop Frequency .....               | 30MHz  |
| Sweep Speed .....                  | Auto   |
| IF Bandwidth.....                  | 10kHz  |
| Quasi-Peak Adapter Bandwidth ..... | 9kHz   |
| Quasi-Peak Adapter Mode .....      | Normal |

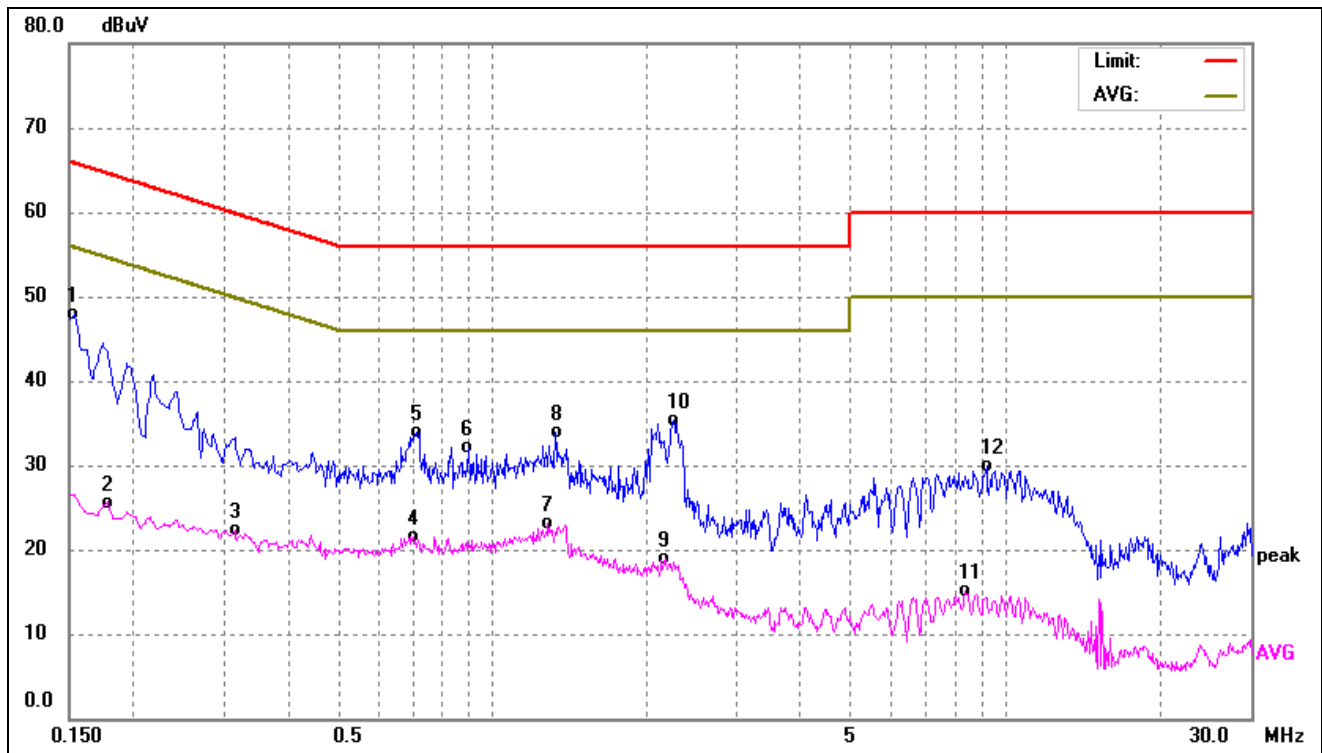
### 6.4 Summary of Test Results/Plots

|           |               |             |           |         |
|-----------|---------------|-------------|-----------|---------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Neutral |
|-----------|---------------|-------------|-----------|---------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1539             | 38.21             | 9.45            | 47.66            | 65.78           | -18.12         | QP     |
| 2   | 0.1980             | 15.33             | 9.62            | 24.95            | 53.69           | -28.74         | AVG    |
| 3   | 0.2620             | 25.30             | 9.63            | 34.93            | 61.36           | -26.43         | QP     |
| 4   | 0.3300             | 11.99             | 9.63            | 21.62            | 49.45           | -27.83         | AVG    |
| 5   | 0.7139             | 24.65             | 9.74            | 34.39            | 56.00           | -21.61         | QP     |
| 6   | 0.7780             | 12.24             | 9.75            | 21.99            | 46.00           | -24.01         | AVG    |
| 7   | 1.2900             | 13.72             | 9.64            | 23.36            | 46.00           | -22.64         | AVG    |
| 8   | 1.3099             | 23.62             | 9.64            | 33.26            | 56.00           | -22.74         | QP     |
| 9   | 2.0779             | 26.13             | 9.36            | 35.49            | 56.00           | -20.51         | QP     |
| 10  | 2.0979             | 9.40              | 9.36            | 18.76            | 46.00           | -27.24         | AVG    |
| 11  | 8.3940             | 4.57              | 9.80            | 14.37            | 50.00           | -35.63         | AVG    |
| 12  | 10.2299            | 18.66             | 9.80            | 28.46            | 60.00           | -31.54         | QP     |

|           |               |             |           |      |
|-----------|---------------|-------------|-----------|------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Line |
|-----------|---------------|-------------|-----------|------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1539             | 38.51             | 9.45            | 47.96            | 65.78           | -17.82         | QP     |
| 2   | 0.1779             | 16.06             | 9.54            | 25.60            | 54.58           | -28.98         | AVG    |
| 3   | 0.3140             | 12.61             | 9.63            | 22.24            | 49.86           | -27.62         | AVG    |
| 4   | 0.7019             | 11.85             | 9.74            | 21.59            | 46.00           | -24.41         | AVG    |
| 5   | 0.7139             | 24.24             | 9.74            | 33.98            | 56.00           | -22.02         | QP     |
| 6   | 0.9020             | 22.45             | 9.75            | 32.20            | 56.00           | -23.80         | QP     |
| 7   | 1.2860             | 13.40             | 9.65            | 23.05            | 46.00           | -22.95         | AVG    |
| 8   | 1.3300             | 24.26             | 9.63            | 33.89            | 56.00           | -22.11         | QP     |
| 9   | 2.1699             | 9.49              | 9.37            | 18.86            | 46.00           | -27.14         | AVG    |
| 10  | 2.2540             | 26.03             | 9.37            | 35.40            | 56.00           | -20.60         | QP     |
| 11  | 8.3620             | 5.22              | 9.80            | 15.02            | 50.00           | -34.98         | AVG    |
| 12  | 9.1579             | 20.15             | 9.80            | 29.95            | 60.00           | -30.05         | QP     |

## APPENDIX PHOTOGRAPHS

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Please refer to “ANNEX”

\*\*\*\*\* END OF REPORT \*\*\*\*\*