

# TEST REPORT

|                                                    |                                                                                                                                                        |                                                                                       |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Report Reference No. ....:                         | 80260100007001                                                                                                                                         |                                                                                       |
| Sample ID.....:                                    | BLC-01-0972722-004                                                                                                                                     |                                                                                       |
| Date of issue .....                                | 20/01/2026                                                                                                                                             |                                                                                       |
| Total number of pages .....                        | 63                                                                                                                                                     |                                                                                       |
| Testing Laboratory .....                           | TUV SUD South Asia Pvt Ltd                                                                                                                             |                                                                                       |
| Address .....                                      | Plot No. 3-P1-B, Hitech Defence & Aerospace Park,<br>KIADB Industrial Area, BK Palya, Bengaluru,<br>Bengaluru North Taluk   Pin code – 562149<br>India |                                                                                       |
| Applicant's name .....                             | Ultrahuman Healthcare Private Limited                                                                                                                  |                                                                                       |
| Address .....                                      | No. 4088/799, Third Floor, V K Paradise Sector-2, HSR Layout, Bangalore,<br>Karnataka, India - 560102                                                  |                                                                                       |
| Client Representative.....:                        | Mr. Adhit Shet                                                                                                                                         |                                                                                       |
| Test specification Standard.....:                  | FCC Part 15 Subpart C 15.203, 15.205, 15.207, 15.209 & 15.247<br>RSS 247 Issue 4, RSS Gen Issue 5                                                      |                                                                                       |
| Test Method .....                                  | ANSI C63.10-2020                                                                                                                                       |                                                                                       |
| Non-standard test method.....:                     | NA                                                                                                                                                     |                                                                                       |
| Test Report Form Number.....:                      | LAB_F(EE)_138-51                                                                                                                                       |                                                                                       |
| Product Name.....:                                 | Pro Charger                                                                                                                                            |                                                                                       |
| Test Item Description.....:                        | Designed to charge Ring Pro Fitness Ring.                                                                                                              |                                                                                       |
| Manufacturer .....                                 | Ultrahuman Healthcare Private Limited                                                                                                                  |                                                                                       |
| Model Number.....:                                 | RPC-XX-XX                                                                                                                                              |                                                                                       |
| Serial Number.....:                                | RPC-CG-INB-B3-ES01                                                                                                                                     |                                                                                       |
| Ratings.....:                                      | 5V DC, 3A (Max)                                                                                                                                        |                                                                                       |
| FCC ID.....:                                       | 2A99X-UHRPCHRGR01                                                                                                                                      |                                                                                       |
| IC ID.....:                                        | 30138-UHRPCHRGR01                                                                                                                                      |                                                                                       |
| Tested by<br>(Name + Signature) .....              | Nikhil G                                                                                                                                               |  |
| Reviewed & Approved by<br>(Name + Signature) ..... | Raghunath M N                                                                                                                                          |  |
|                                                    |                                                                                                                                                        |                                                                                       |

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## Possible test case verdicts:

- test case does not apply to the test object.... : N/A
- test object does meet the requirement ..... : Pass
- test object does not meet the requirement ... : Fail

## Testing:

Condition of the EUT on Receipt.....: Good  
 Date of receipt of test item.....: 31/10/2025  
 Date (s) of performance of tests.....: 05/11/2025 to 12/11/2025

## General remarks:

1. The submitted sample(s) were not drawn by laboratory.
2. The test results presented in this report relate only to the object tested.
3. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.
4. The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/E-mail is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.
5. The laboratory will retain the sample(s) for 45 days except for the mandatory retention period specified by the Regulatory Bodies and unless otherwise specified by the client.
6. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.  
 "(see Enclosure #)" refers to additional information appended to the report.  
 "(see appended table)" refers to a table appended to the report.
7. Throughout this report a point is used as the decimal separator.

## Use of uncertainty of measurement for decisions on conformity (decision rule): Yes/No

☒ No decision rule is specified by the IEC/EN standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

☐ Other: (to be specified)

**Decisions on conformity:** Decision on conformity of results is based on as per standard limits or criteria.

**Summary of compliance:** The Product comply with the requirements of FCC Part 15 Subpart C 15.203, 15.205, 15.207, 15.209 & 15.247 / RSS 247 Issue 4, RSS Gen Issue 5.

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## Revision History of Records

| Test Report Number | Version | Reason for Change | Date Issued |
|--------------------|---------|-------------------|-------------|
| 80260100007001     | 01      | Initial Report    | 20/01/2026  |

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## 1 GENERAL INFORMATION

### 1.1 Appendices

The following documents are appended to this report as separate attachments:

Test Setup Photographs, External and Internal Photographs of the EUT, Label and its Location, Block Diagram, EUT Specifications, Schematic Diagrams, Bill of Materials, User Manual, and Maximum Permissible Exposure (MPE) information.

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## 2 TEST SUMMARY

Table 1: Test Summary

| Sl.no | Requirement – Test                                            | Basic Standard                   |                                    | Result |
|-------|---------------------------------------------------------------|----------------------------------|------------------------------------|--------|
|       |                                                               | FCC                              | ISED                               |        |
| 1.    | Maximum conducted (Peak) output power                         | FCC 15.247 (b)(3)                | RSS 247 Issue 4, Section 6.3.2     | Pass   |
| 2.    | Maximum Power Spectral Density                                | FCC 15.247(e)                    | RSS 247 Issue 4, Section 6.3.1     | Pass   |
| 3.    | DTS Bandwidth & 99% Bandwidth                                 | FCC 15.247(a)(2)                 | RSS 247 Issue 4, Section 6.3.1     | Pass   |
| 4.    | Emissions in non-restricted frequency bands                   | FCC 15.247(d)                    | RSS 247 Issue 4, Section 6.6       | Pass   |
| 5.    | Spurious Radiated Emissions and Restricted Bands of Operation | FCC 15.247 (d) / 15.209 / 15.205 | RSS-Gen Issue 5, Section 8.9 /8.10 | Pass   |
| 6.    | Conducted Emissions on AC Power Lines                         | FCC 15.207                       | RSS-Gen Issue 5, Section 8.8       | Pass   |
| 7.    | Antenna Requirement                                           | FCC 15.203                       | RSS-Gen Issue 5, Section 6.8       | Pass   |

### Note:

#### 1. Antenna Requirement:

The RF module uses a permanently attached antenna and does not provide any standard antenna connector. This prevents end-user replacement or modification of the antenna. Therefore, the antenna configuration meets the requirements of FCC 47 CFR §15.203 as well as RSS-Gen Issue 5, Section 6.8, and the equipment is considered compliant with the applicable antenna restrictions.

\*NA - Not Applicable

\*N/T - Not Tested

#### 2. Model number: **RPC-XX-XX**, where 'XX' refers to the Pro Charger model number system for the detailed model number definition.

Testing and reporting were conducted on model **RPC-PS-A1**.

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### 3 MEASUREMENT UNCERTAINTY

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$

**Table 2: Measurement Uncertainty**

| No. | Item                    | Uncertainty |
|-----|-------------------------|-------------|
| 1   | Conducted Emission Test | 2.25dB      |
| 2   | Radiated Emission Test  | 4.71 dB     |

### 4 TEST EQUIPMENT USED

**Table 3: Test Equipment Used**

| S. No | Test Equipment                      | Manufacturer                       | Model No     | Serial No | Calibration Due Date |
|-------|-------------------------------------|------------------------------------|--------------|-----------|----------------------|
| 1.    | Active Loop Antenna                 | Schwarzbeck Mess-Elektronik        | FMZB 1519C   | 43        | 07/04/2026           |
| 2.    | Biconical Antenna                   | Schwarzbeck Mess-Elektronik        | VHBB 9124    | 1940      | 17/02/2026           |
| 3.    | Log-Periodic Antenna                | Schwarzbeck Mess-Elektronik        | VUSLP 9111 B | 735       | 18/02/2026           |
| 4.    | Double Ridge Horn Antenna           | Schwarzbeck Mess-Elektronik        | BBHA 9120D   | 2733      | 31/03/2026           |
| 5.    | Double Ridge Broadband Horn Antenna | Schwarzbeck Mess-Elektronik        | BBHA 9120L   | 18        | 15/05/2026           |
| 6.    | EMI Test Receiver                   | ROHDE & SCHWARZ                    | ESR3         | 103112    | 25/02/2026           |
| 7.    | EMI Test Receiver                   | ROHDE & SCHWARZ                    | ESR26        | 101821    | 05/02/2026           |
| 8.    | Open Switch and Control Platform    | ROHDE & SCHWARZ                    | OSP150       | 101158    | 27/02/2026           |
| 9.    | EMI Test Receiver                   | ROHDE & SCHWARZ                    | ESW44        | 103295    | 10/03/2026           |
| 10.   | Signal controlling unit             | ROHDE & SCHWARZ                    | SCU01F       | 100507    | --                   |
| 11.   | Signal Conditioning Unit            | ROHDE & SCHWARZ                    | SCU18F       | 101037    | --                   |
| 12.   | Signal controlling unit             | ROHDE & SCHWARZ                    | SCU40F1      | 100653    | --                   |
| 13.   | LISN                                | Scientific Mes - Technik Pvt. Ltd. | SMLIN32-2    | 2303007   | 28/01/2026           |
| 14.   | Pulse Limiter                       | ROHDE & SCHWARZ                    | ESH3-Z2      | 103167    | 16/01/2026           |

**Table 4: Instrument application Software versions**

| Sl. No | Test Type                                                              | Application software and version |
|--------|------------------------------------------------------------------------|----------------------------------|
| 1      | Antenna Port conducted measurement: TS8997 system                      | WMS 32 V11.60.00                 |
| 2      | Radiated spurious emission measurement- 10-meter Semi Anechoic Chamber | Elektra V5.03.0                  |

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## 5 EQUIPMENT INFORMATION

### 5.1 Product Function

Pro Charger is specially designed to charge Ring Pro Fitness Ring.

### 5.2 Pro Charger model number system

| Code                   | Code type    | Length | Options                               | Description                                                                                                                                                                 |
|------------------------|--------------|--------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RPC                    | Alphanumeric | 3      | RPC                                   | Product name, RPC-Ring Pro Charger                                                                                                                                          |
| (sku_color)            | Alphanumeric | 2      | Champagne gold - CG<br>Gun metal - GM | sku-color defines aesthetic finish and color for the product. XX can be A to Z                                                                                              |
| Manufacturing location | Alphanumeric | 2      | A1                                    | 1st X = A to Z; represents PCB assembly vendors; A = Manufactured by first set of vendors for Bare PCB, 2nd X = 1 to 9 represents country of Assembly 1 = Assemble in India |

### 5.3 General Information of EUT

Table 5: EUT details as declared by client\*

|                                        |                      |                |
|----------------------------------------|----------------------|----------------|
| EUT Name                               | Pro Charger          |                |
| Protocol                               | BLE                  |                |
| Operating Frequency Range              | 2402MHz – 2480MHz    |                |
| Channel Spacing                        | 2MHz                 |                |
| Environmental conditions               | Storage              | -10°C to +60°C |
|                                        | Operating            | 0°C to +45°C   |
| Supply Voltage                         | 5V DC                |                |
| Maximum Measured Power (e.i.r.p) (dBm) | 1.75 dBm             |                |
| Modulation                             | GFSK                 |                |
| Number of antennas                     | 01                   |                |
| Antenna Type                           | Ceramic Chip Antenna |                |
| Antenna Gain                           | 1.5 dBi (Peak)       |                |
| EUT Dimension (LxWxH)                  | 61mm x 59mm x 24mm   |                |

\*Disclaimer: The TÜV SÜD is not responsible for the accuracy of the customer declared specification.

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## 6 TEST DESCRIPTION

### 6.1 Test Operation and software mode

Hardware Version Identification Number (HVIN): UH\_CHG\_PRO\_3V1  
Software Version: 21.00.36.00

### 6.2 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle on low, mid and high channels.

This product supports two charging modes: USB charging and Wireless Qi charging, as described in Clause **6.2.1** of this test report. These charging modes involve only analog power-management circuitry and do not influence or modify the RF characteristics of the device.

#### 6.2.1 EUT Mode of operation Mode

Table 6: EUT Mode of operation Mode

| EUT Mode of operation Mode | Description                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB Charging Mode          | In this mode, the EUT is powered through a USB interface. This function is limited to analog power-management circuitry and does not affect, alter, or influence the RF characteristics or RF behaviour of the device.     |
| Wireless Qi Charging Mode  | In this mode, the EUT is powered using a Qi-based wireless charging system. The Qi charging functionality also utilizes only analog circuitry and has no impact on the RF characteristics or RF performance of the device. |

#### 6.2.2 Following configurations are used for testing

Table 7: Following configurations are used for testing

| Test cases                      | Mode of operation                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| All conducted RF test cases     | A special configuration tool ( <b>refer: clause 6.3</b> ) was used to enable BLE continuous transmission as required for testing. |
| All radiated test cases < 1 GHz | Both operating modes were tested as described in Clause <b>6.2.1</b>                                                              |
| All radiated test cases > 1 GHz | A special configuration tool ( <b>refer: clause 6.3</b> ) was used to enable BLE continuous transmission as required for testing. |

### 6.3 Accessories and Auxiliary Equipment

Auxiliary Equipment: nRF5340 development kit, Micro USB cable and Dell Laptop.

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## 6.4 List of frequencies

**Table 8: List of BLE Centre frequencies:**

| Frequency Band (MHz) | Channel No. | Frequency (MHz) |
|----------------------|-------------|-----------------|
| BLE (2402-2483.5)    | <b>0</b>    | <b>2402</b>     |
|                      | 1           | 2404            |
|                      | 2           | 2406            |
|                      | 3           | 2408            |
|                      | :           | :               |
|                      | :           | :               |
|                      | 18          | 2438            |
|                      | <b>19</b>   | <b>2440</b>     |
|                      | 20          | 2442            |
|                      | :           | :               |
|                      | :           | :               |
|                      | 36          | 2474            |
|                      | 37          | 2476            |
|                      | 38          | 2478            |
|                      | <b>39</b>   | <b>2480</b>     |

### Channel used for BLE testing:

Channel low: 2402MHz  
Channel mid: 2440MHz  
Channel High: 2480MHz

## 7 OPERATIONAL DESCRIPTION

The Ring Pro Charger is a dedicated charging accessory designed to safely charge the Ring Pro smart fitness ring. The charger provides regulated power to the ring's rechargeable battery through a proprietary charging interface.

The Equipment Under Test (EUT) supports the same Bluetooth Low Energy (BLE) communication range of 2402 MHz to 2480 MHz as the Ring Pro, enabling device identification and charging-status communication. The charger is powered by an external DC source and includes internal regulation and protection circuitry to ensure stable and efficient charging operation.

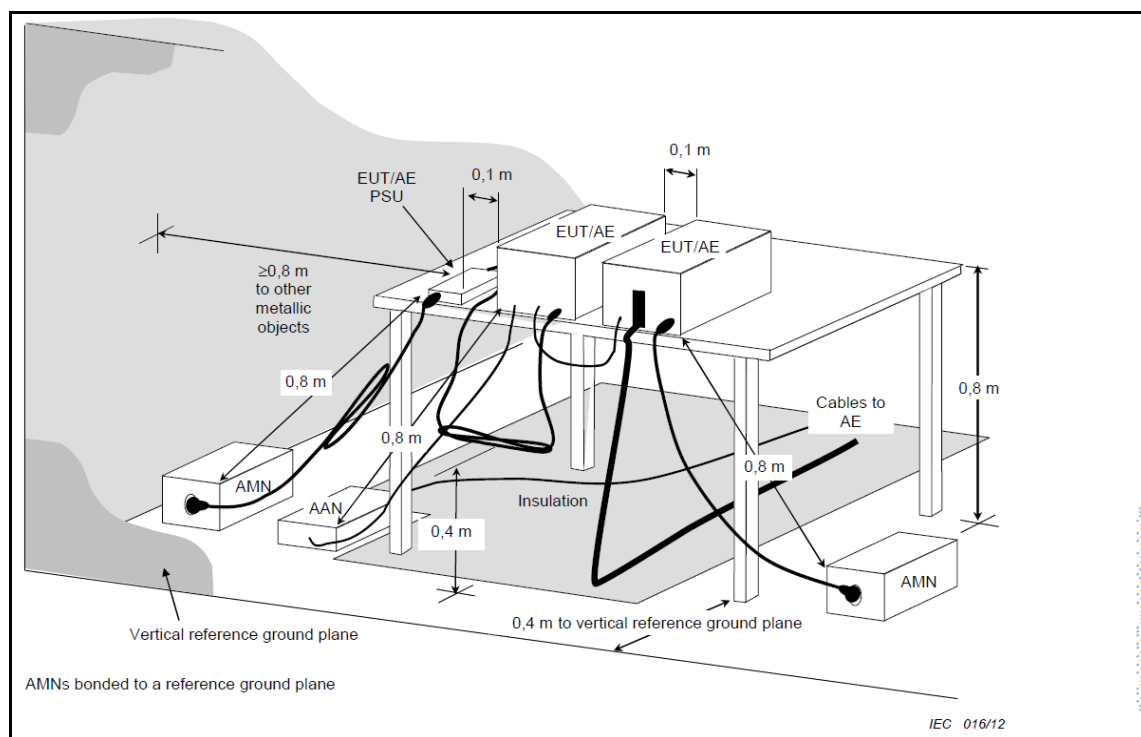
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## 8 TEST METHODOLOGY

## 8.1 Conducted Spurious Emission Test on AC Power Lines

AC powerline conducted emissions were measured across the 50Ω LISN port connected to the Equipment Under Test (EUT). Emission voltage and current measurements were performed on each current-carrying conductor at the EUT power cord plug using mating plugs and receptacles on the LISN. The EUT was tested using manufacturer-supplied or recommended power cords, ensuring equivalent electrical and shielding characteristics. The device will be positioned on a test table 80cm above the reference ground plane, with a vertical conducting plane located 40cm to its rear. AC conducted emission measurements were conducted over a frequency range of 150kHz to 30MHz, utilizing an AC adapter with a 110V AC 60Hz supply.

### 8.1.1 Test Setup Configuration



### Figure 1: Conducted Spurious Emission in AC Power Lines

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## 8.2 Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2020. The equipment under test (EUT) was placed at the middle of the 1mtr high turntable for below 1 GHz and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360 ° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1GHz was performed by Horn Antenna, the measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 1000 MHz was performed by Broadband Trilog Antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded

### 8.2.1 Test Setup Configuration

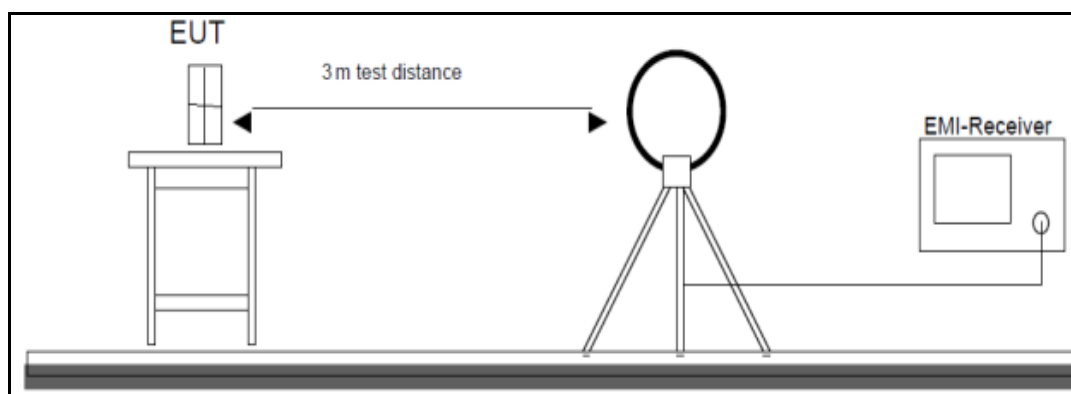


Figure 2: Frequency Range 9kHz- 30MHz

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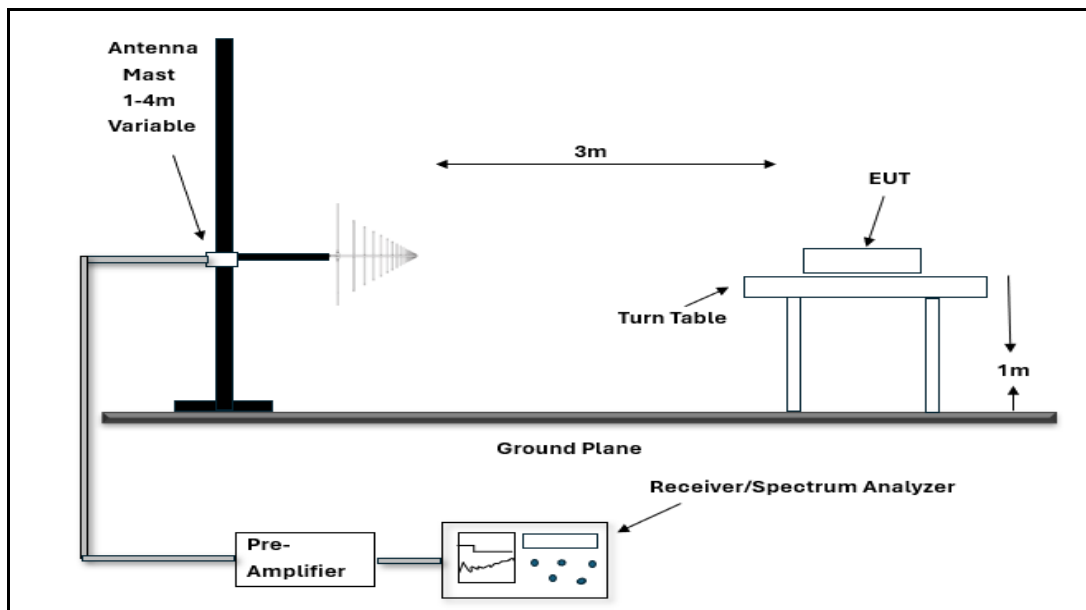


Figure 3: Frequency Range 30MHz - 1GHz

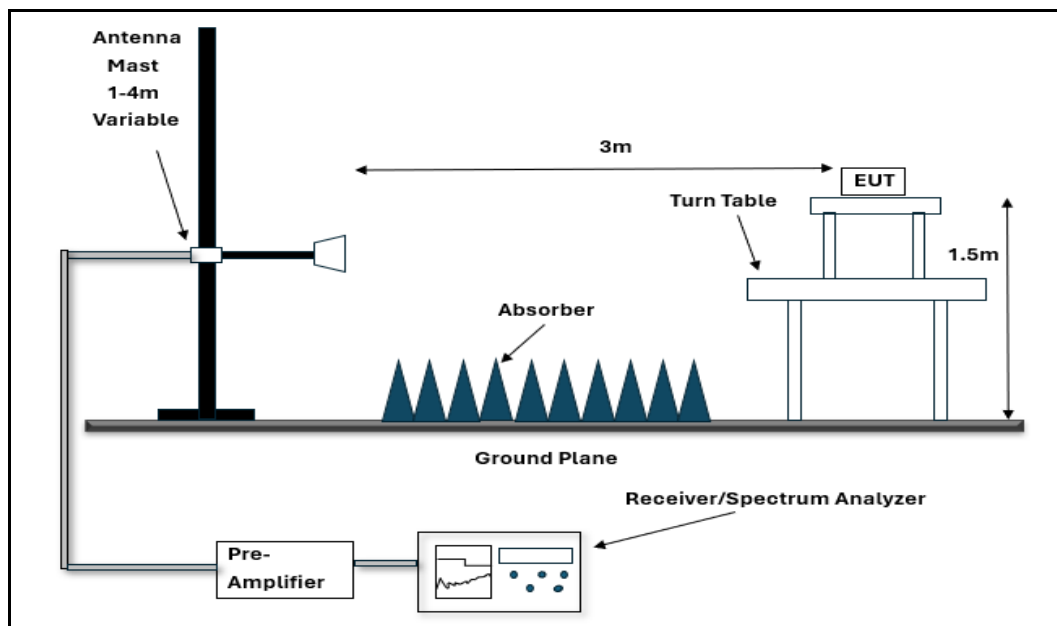


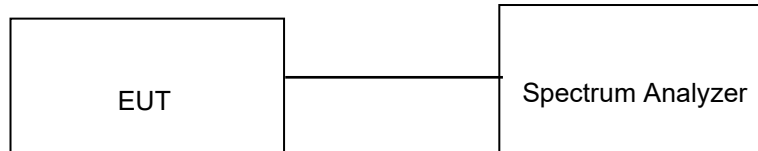
Figure 4: Frequency Range above 1GHz

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## 9 TEST CONDITIONS AND RESULTS – Maximum Peak Conducted Output Power

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| Test Specification    | FCC part 15 Subpart C 15.247 (b)(3) / RSS 247 Issue 4, Section 6.3.2 |
| Test Method           | Subclause 11.9.1.1 of ANSI C63.10-2020                               |
| Measurement Bandwidth | 1MHz                                                                 |
| Detector              | Peak                                                                 |
| Port of testing       | Antenna port                                                         |
| Requirement           | Power $\leq 1$ W (30 dBm) & e.i.r.p $\leq 4$ W (36 dBm)              |

### Test Setup:



### 9.1 Laboratory Environmental Conditions

|                     |                  |
|---------------------|------------------|
| Ambient Temperature | : +15°C to +35°C |
| Relative humidity   | : 20% to 75%     |
| Power supply        | : 110V AC, 60Hz  |

### 9.2 EUT Conditions

|              |                  |
|--------------|------------------|
| Temperature  | : 0°C to +45°C   |
| Power supply | : 5V DC, 3A(max) |

### 9.3 Test results

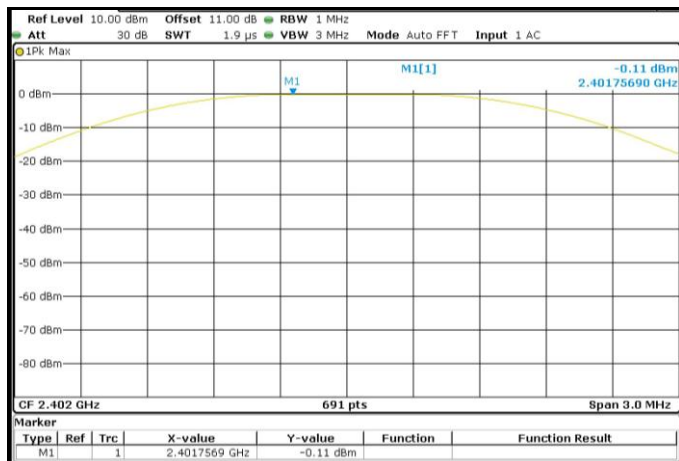
**Table 9: Maximum peak conducted output power results**

| Data rate | Channel Frequency (MHz) | RF Output Power (dBm) | Final Power (e.i.r.p) (dBm) | Limit (dBm) | e.i.r.p Limit (dBm) |
|-----------|-------------------------|-----------------------|-----------------------------|-------------|---------------------|
| 1 Mbps    | 2402                    | -0.11                 | 1.39                        | 30.00       | 36.00               |
|           | 2440                    | -0.30                 | 1.20                        | 30.00       | 36.00               |
|           | 2480                    | -0.40                 | 1.10                        | 30.00       | 36.00               |
| 2 Mbps    | 2402                    | 0.25                  | 1.75                        | 30.00       | 36.00               |
|           | 2440                    | 0.09                  | 1.59                        | 30.00       | 36.00               |
|           | 2480                    | 0.03                  | 1.53                        | 30.00       | 36.00               |

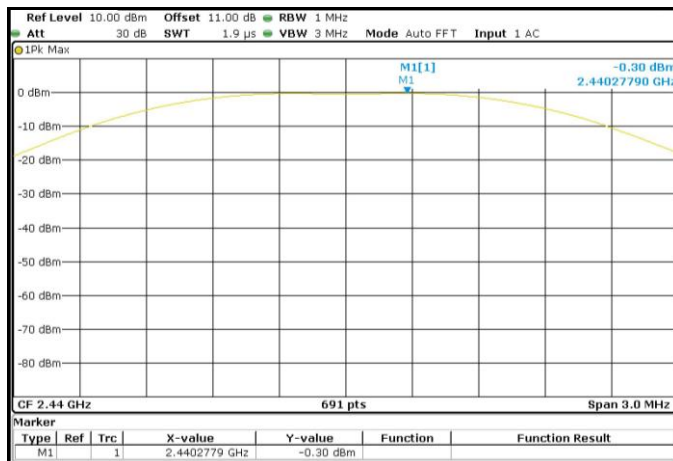
Report Reference. No.: 80260100007001

## Test plots:

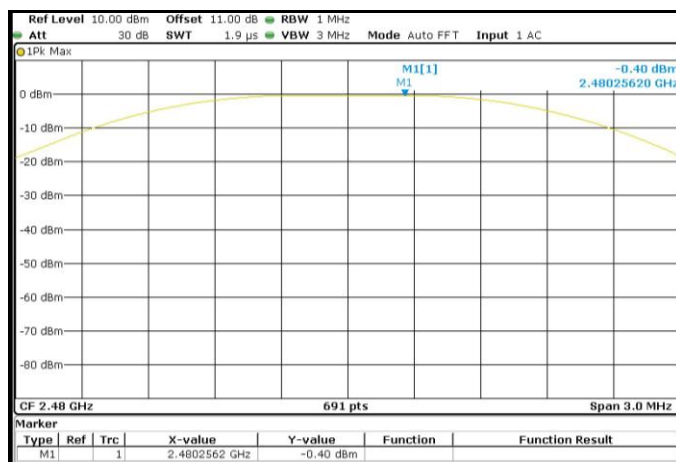
Data rate: 1Mbps



Channel Frequency: 2402MHz



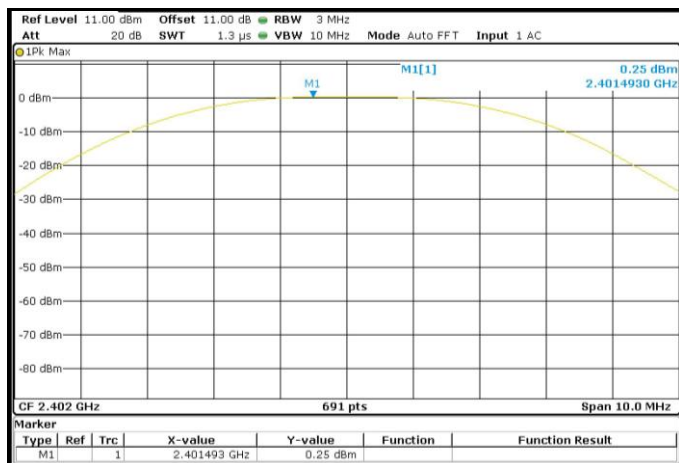
Channel Frequency: 2440MHz



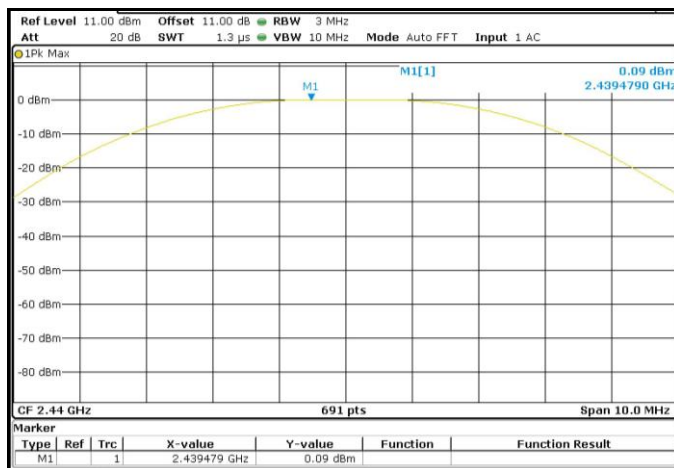
Channel Frequency: 2480MHz

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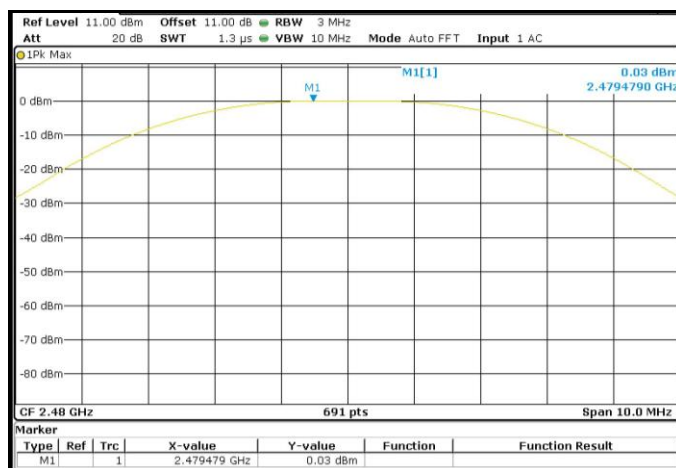
## Data rate: 2Mbps



Channel Frequency: 2402MHz



Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

## KDB Guidelines applied:

Measurements were made as per section 8.3.1.1 in KDB 558074 D01 15.247(b) Measurement Guidance v05r02.

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## 10 TEST CONDITIONS AND RESULTS – POWER SPECTRAL DENSITY

|                       |                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Specification    | FCC Part 15 Subpart C Section 15.247 (e) / RSS 247 Issue 4, Section 6.3.1                                                                                                                                                   |
| Test Method           | Subclause 11.10.2 of ANSI C63.10-2020                                                                                                                                                                                       |
| Measurement Bandwidth | 3 kHz                                                                                                                                                                                                                       |
| Detector              | Peak                                                                                                                                                                                                                        |
| Port of testing       | Antenna port                                                                                                                                                                                                                |
| Requirement           | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 100 kHz band during any time interval of continuous transmission. |

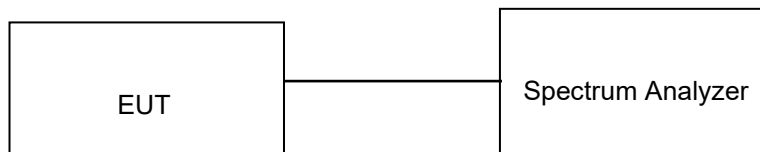
### 10.1 Laboratory Environmental Conditions

|                     |                     |
|---------------------|---------------------|
| Ambient Temperature | : +15° C to +35 ° C |
| Relative humidity   | : 20% to 75%        |
| Power supply        | : 110V AC, 60Hz     |

### 10.2 EUT Conditions

|              |                  |
|--------------|------------------|
| Temperature  | : 0°C to +45°C   |
| Power supply | : 5V DC, 3A(max) |

#### Test Setup:



### 10.3 Test results:

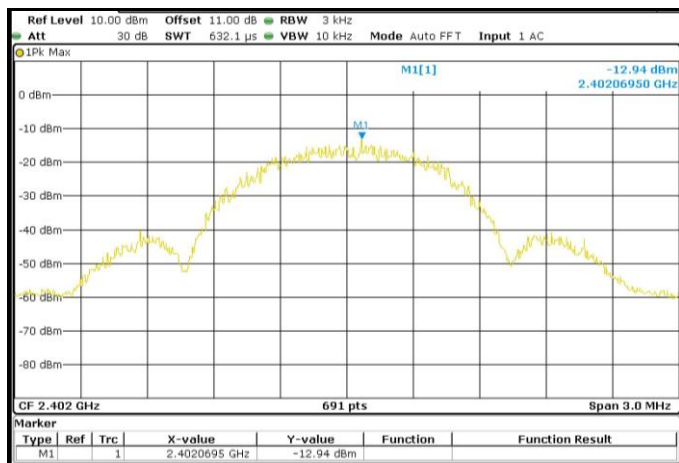
Table 10: Power spectral density results

| Data Rate | Channel Frequency (MHz) | Measured PSD (dBm/kHz) | Limit (dBm/kHz) | Margin (dB) |
|-----------|-------------------------|------------------------|-----------------|-------------|
| 1Mbps     | 2402                    | -12.94                 | 8.00            | -20.94      |
|           | 2440                    | -12.50                 | 8.00            | -20.50      |
|           | 2480                    | -12.51                 | 8.00            | -20.51      |
| 2Mbps     | 2402                    | -15.87                 | 8.00            | -23.87      |
|           | 2440                    | -16.34                 | 8.00            | -24.34      |
|           | 2480                    | -16.27                 | 8.00            | -24.27      |

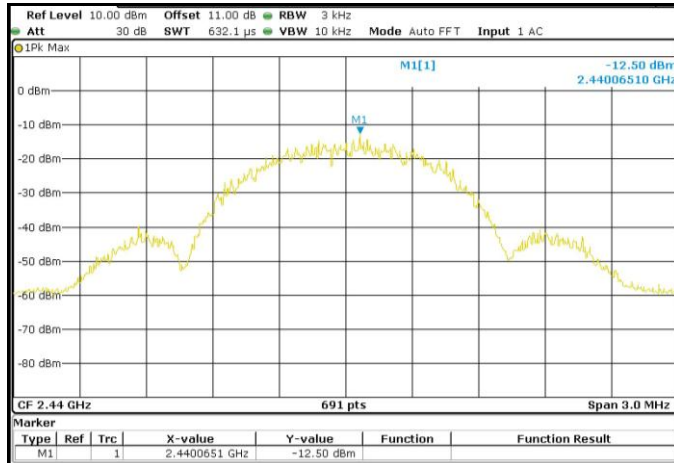
Report Reference. No.: 80260100007001

## Test Plots:

Data rate: 1Mbps



Channel Frequency: 2402MHz



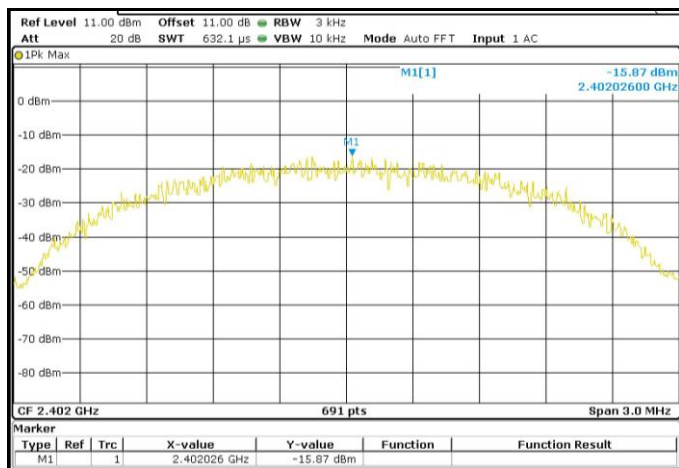
Channel Frequency: 2440MHz



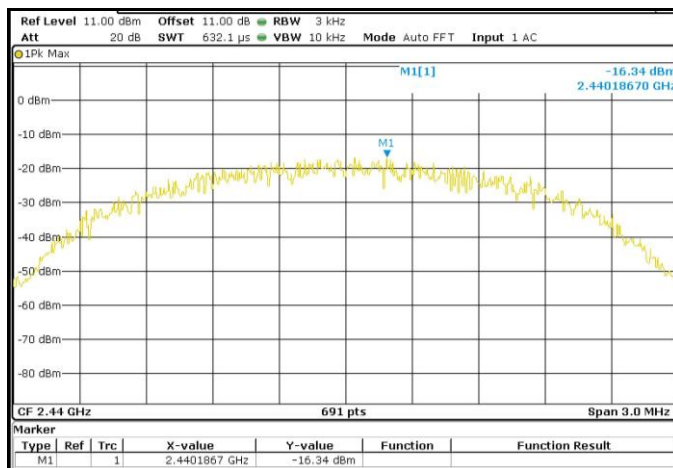
Channel Frequency: 2480MHz

Report Reference. No.: 80260100007001

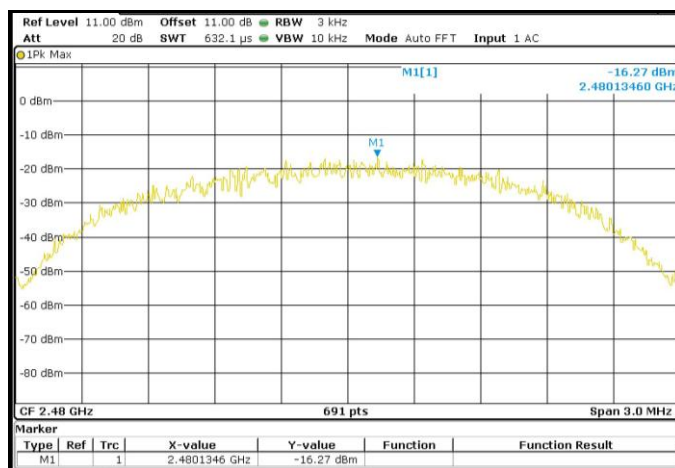
Data rate: 2Mbps



Channel Frequency: 2402MHz



Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

## KDB Guidelines applied:

Measurements were made as per section 8.4 in KDB 558074 D01 15.247 (e) Measurement Guidance v05r02

Report Reference. No.: 80260100007001

## 11 TEST CONDITIONS AND RESULTS – DTS BANDWIDTH & OCCUPIED CHANNEL BANDWIDTH

|                       |                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Specification    | FCC part 15 Subpart C 15.247 (a) (2) / RSS 247 Issue 4, Section 6.3.1                                                                                                       |
| Test Method           | Subclause 11.8.2 of ANSI C63.10-2020                                                                                                                                        |
| Measurement Bandwidth | 100 kHz                                                                                                                                                                     |
| Detector              | Peak                                                                                                                                                                        |
| Port of testing       | Antenna port                                                                                                                                                                |
| Requirement           | Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |

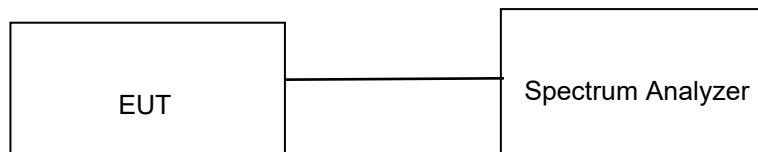
### 11.1 Laboratory Environmental Conditions

|                     |                     |
|---------------------|---------------------|
| Ambient Temperature | : +15° C to +35 ° C |
| Relative humidity   | : 20% to 75%        |
| Power supply        | : 110V AC, 60Hz     |

### 11.2 EUT Conditions

|              |                  |
|--------------|------------------|
| Temperature  | : 0°C to +45°C   |
| Power supply | : 5V DC, 3A(max) |

#### Test Setup:



### 11.3 Test results

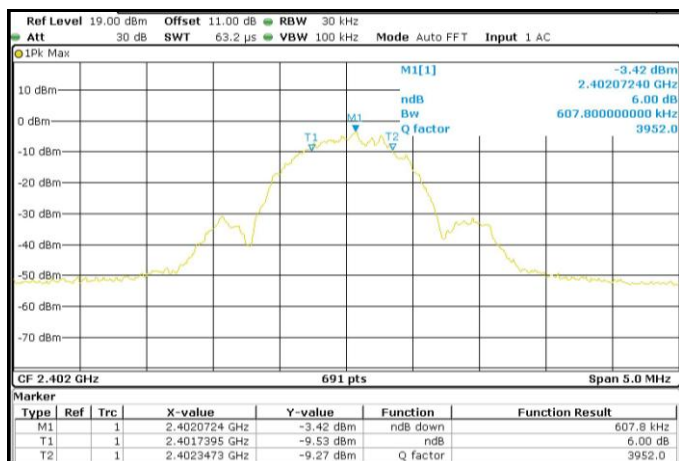
Table 11: DTS Bandwidth & Occupied Channel Bandwidth of 1Mbps

| Data Rate | Channel Frequency (MHz) | Measured 99% Bandwidth (MHz) | Measured 6dB Bandwidth (kHz) | Limit (MHz) |
|-----------|-------------------------|------------------------------|------------------------------|-------------|
| 1Mbps     | 2402                    | 1.099                        | 607.80                       | 0.5         |
|           | 2440                    | 1.107                        | 586.10                       | 0.5         |
|           | 2480                    | 1.107                        | 644.00                       | 0.5         |

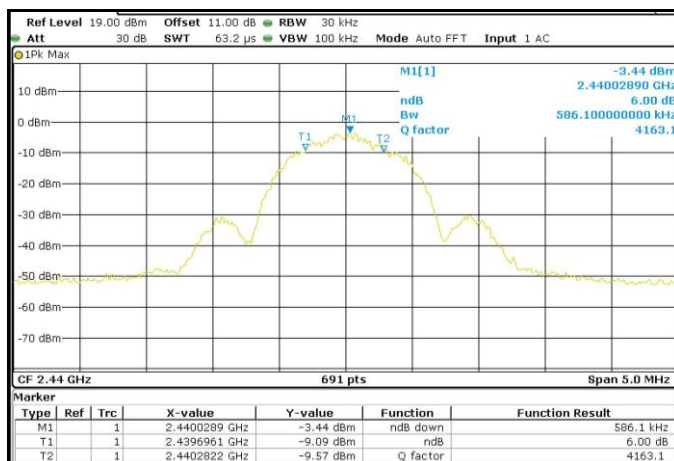
Report Reference. No.: 80260100007001

## Test Plots:

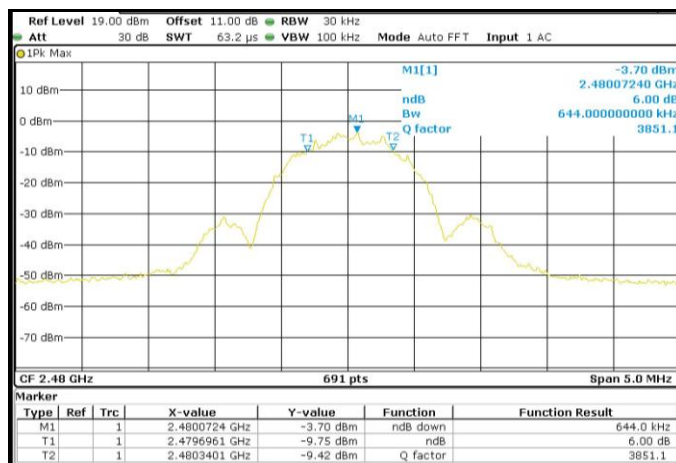
### 6dB DTS Bandwidth



Channel Frequency: 2402MHz



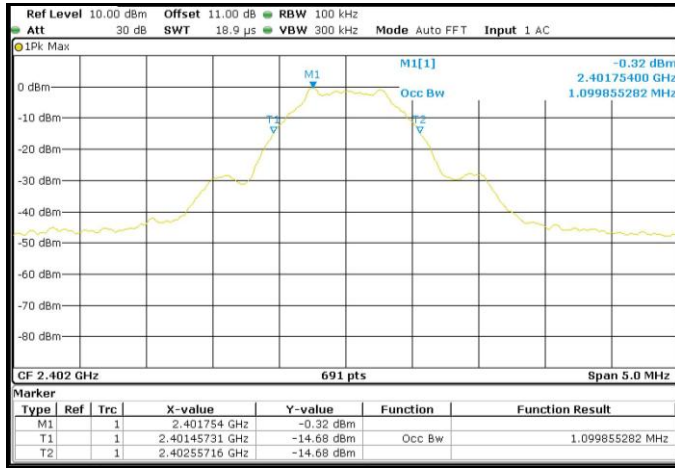
Channel Frequency: 2440MHz



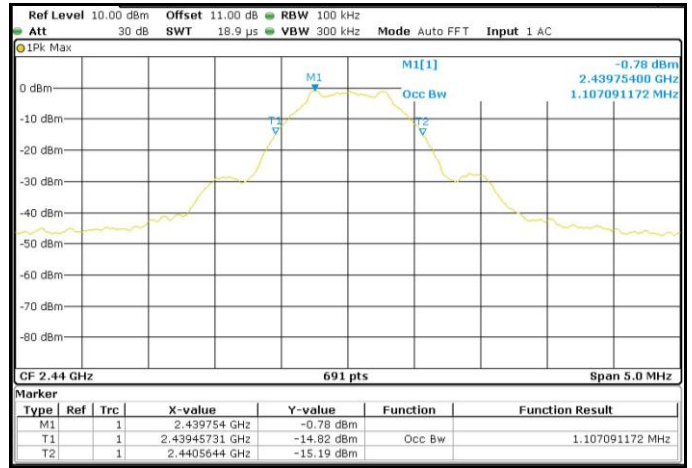
Channel Frequency: 2480MHz

Report Reference. No.: 80260100007001

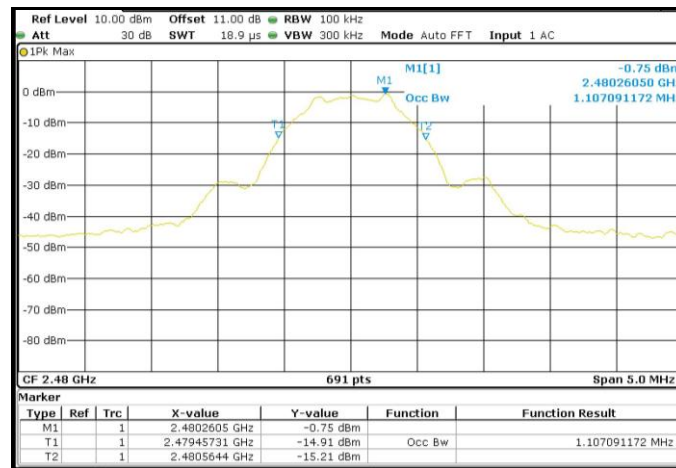
## Occupied Channel Bandwidth



Channel Frequency: 2402MHz



Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

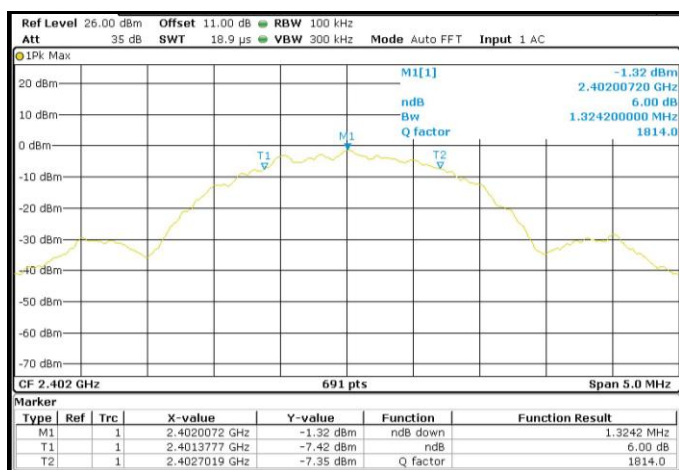
Report Reference. No.: 80260100007001

**Table 12: DTS Bandwidth & Occupied Channel Bandwidth of 2Mbps**

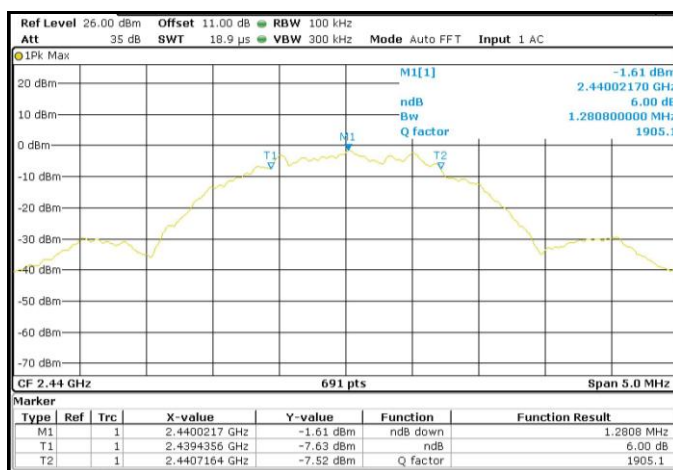
| Data Rate | Channel Frequency (MHz) | Measured 99% Bandwidth (MHz) | Measured 6dB Bandwidth (MHz) | Limit (MHz) |
|-----------|-------------------------|------------------------------|------------------------------|-------------|
| 2Mbps     | 2402                    | 2.16                         | 1.32                         | 0.5         |
|           | 2440                    | 2.16                         | 1.28                         | 0.5         |
|           | 2480                    | 2.18                         | 1.36                         | 0.5         |

## Test Plots:

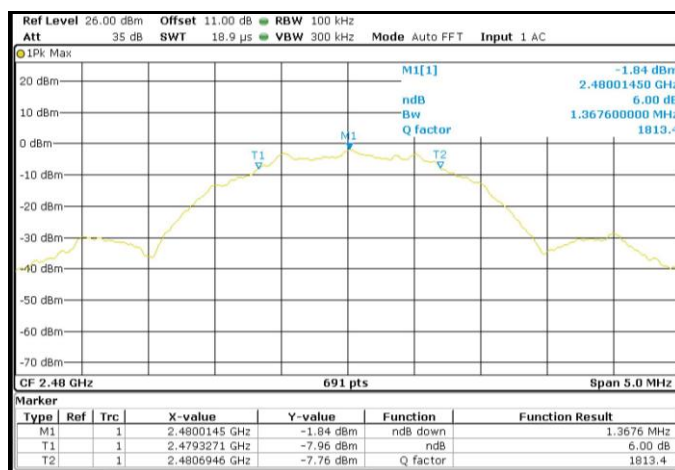
### 6dB DTS Bandwidth



Channel Frequency: 2402MHz



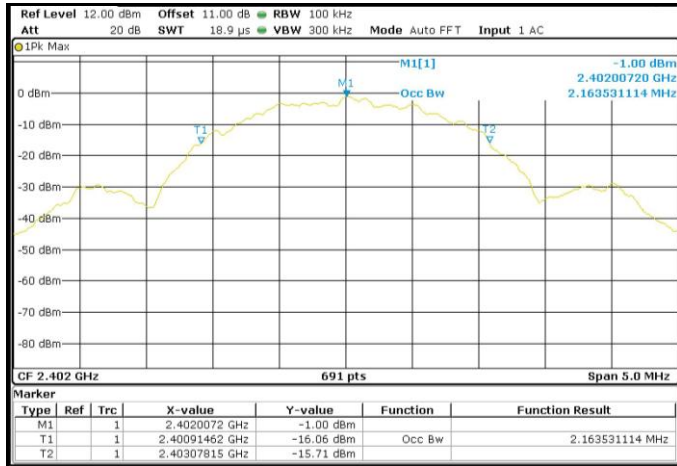
Channel Frequency: 2440MHz



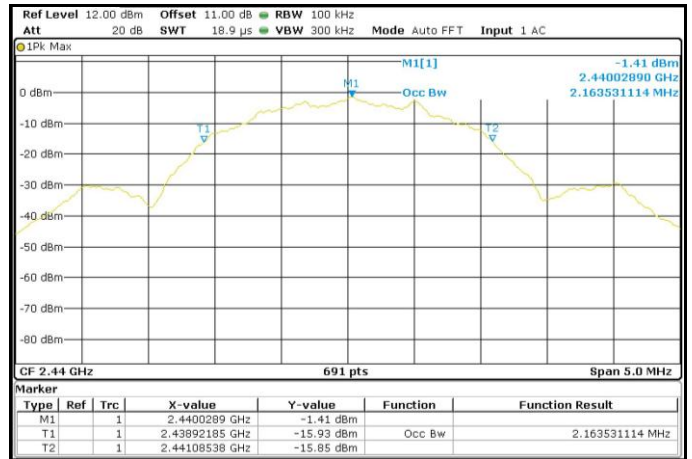
Channel Frequency: 2480MHz

Report Reference. No.: 80260100007001

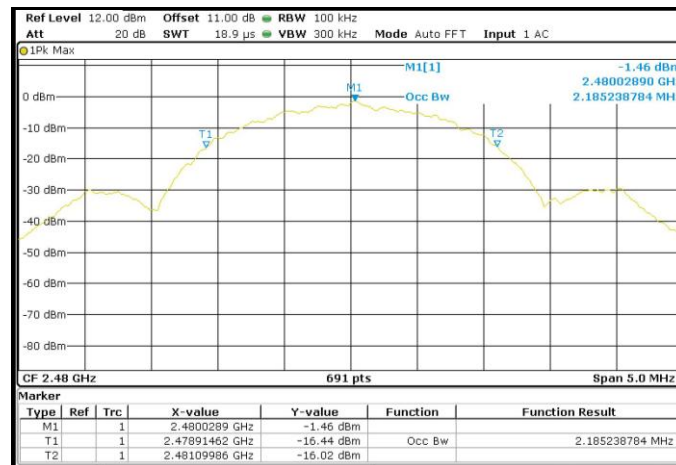
## Occupied Channel Bandwidth



Channel Frequency: 2402MHz



Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

## KDB Guidelines applied:

Measurements were made as per section 8.2 in KDB 558074 D01 15.247 (a) (2) Measurement Guidance v05r02

Report Reference. No.: 80260100007001

## 12 TEST CONDITIONS AND RESULTS – EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS AND CONDUCTED SPURIOUS EMISSION

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Specification    | FCC part 15 Subpart C 15.247 (d) / RSS 247 Issue 4, Section 6.6                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Method           | Subclause 11.11 of ANSI C63.10-2020                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Measurement Bandwidth | 100 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Detector              | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Port of testing       | Antenna port                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Requirement           | In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits |

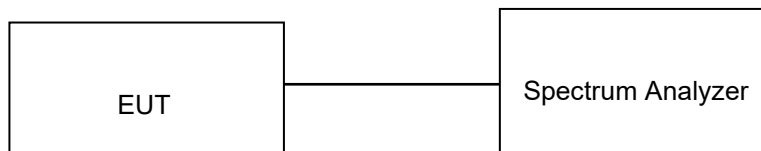
### 12.1 Laboratory Environmental Conditions

|                     |                     |
|---------------------|---------------------|
| Ambient Temperature | : +15° C to +35 ° C |
| Relative humidity   | : 20% to 75%        |
| Power supply        | : 110V AC, 60Hz     |

### 12.2 EUT Conditions

|              |                  |
|--------------|------------------|
| Temperature  | : 0°C to +45°C   |
| Power supply | : 5V DC, 3A(max) |

#### Test Setup:



Report Reference. No.: 80260100007001

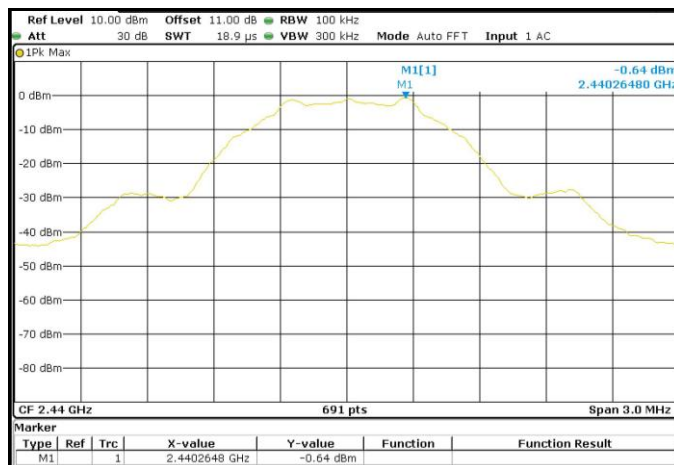
## 12.3 Test results:

Data rate: 1Mbps

### Reference Plots:



Channel Frequency: 2402MHz



Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

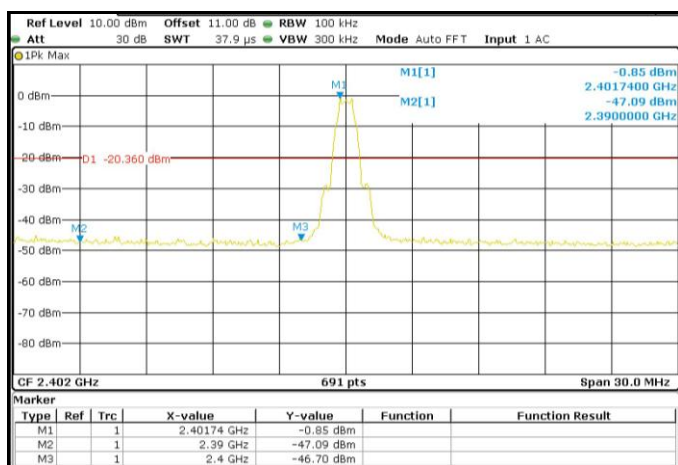
Report Reference. No.: 80260100007001

## 12.3.1 Band edge:

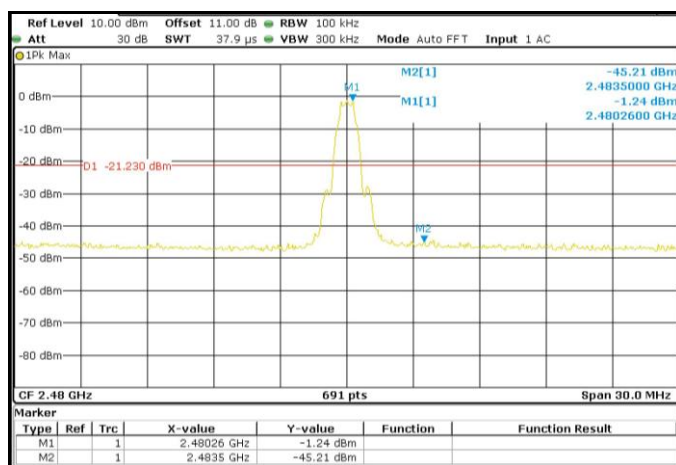
Table 13: Band Edge results of 1Mbps

| Channel Frequency (MHz) | Band edge frequency (MHz) | Value at band edge (A) (dBm) | Reference value (B) (dBm) | A-B (dBc) | Minimum Limit (dBc) |
|-------------------------|---------------------------|------------------------------|---------------------------|-----------|---------------------|
| 2402.00                 | 2400.00                   | -46.40                       | -0.36                     | -46.04    | -20                 |
| 2480.00                 | 2483.50                   | -45.21                       | -1.23                     | -43.98    | -20                 |

## Plots:



Channel Frequency: 2402MHz

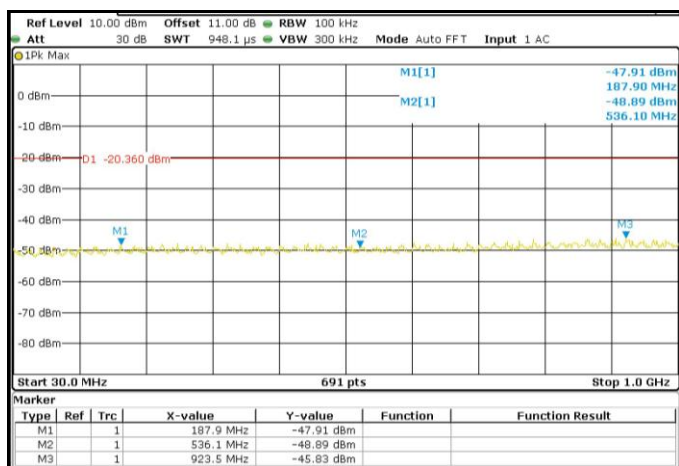


Channel Frequency: 2480MHz

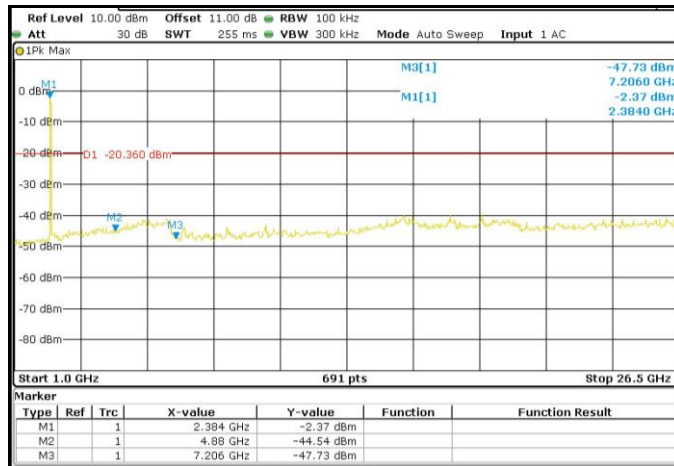
Report Reference. No.: 80260100007001

## 12.3.2 Conducted Spurious:

Channel Frequency: 2402MHz

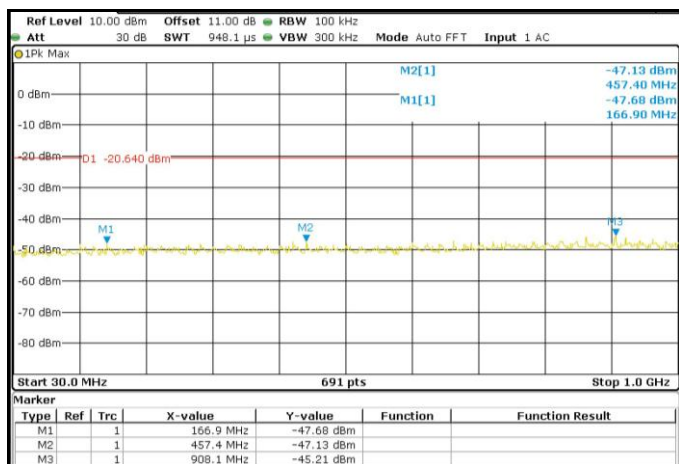


Frequency Range: 30MHz-1GHz

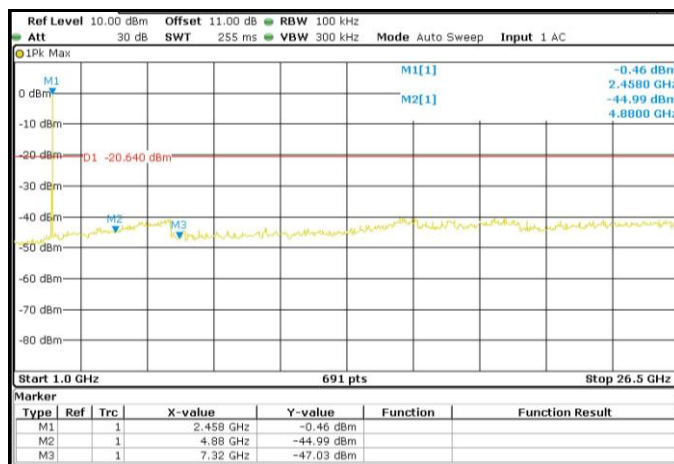


Frequency Range: 1GHz-26.5GHz

Channel Frequency: 2440MHz



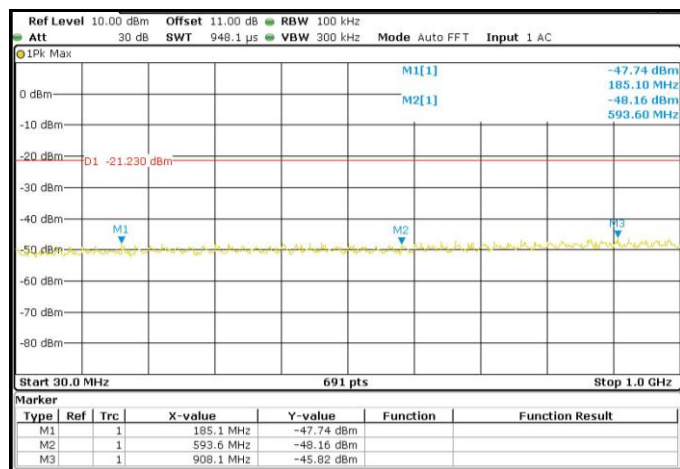
Frequency Range: 30MHz-1GHz



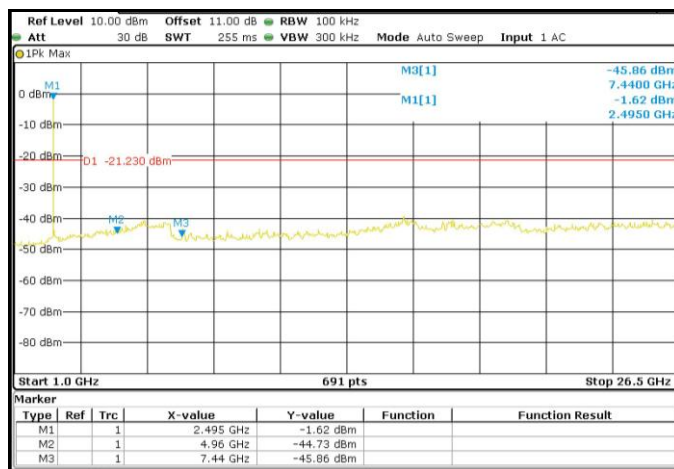
Frequency Range: 1GHz-26.5GHz

Report Reference. No.: 80260100007001

## Channel Frequency: 2480MHz



Frequency Range: 30MHz-1GHz

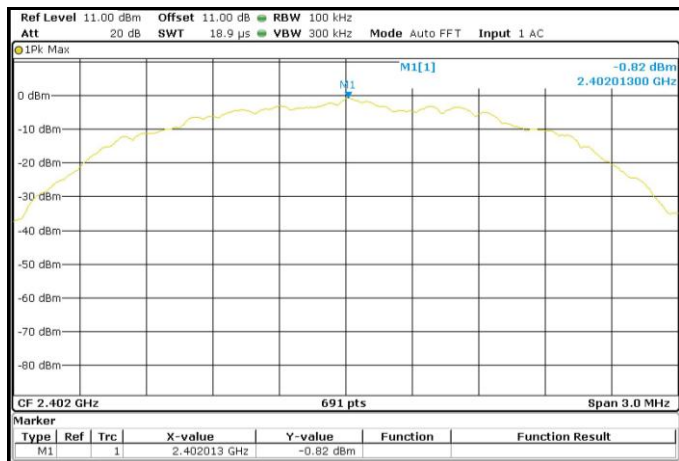


Frequency Range: 1GHz-26.5GHz

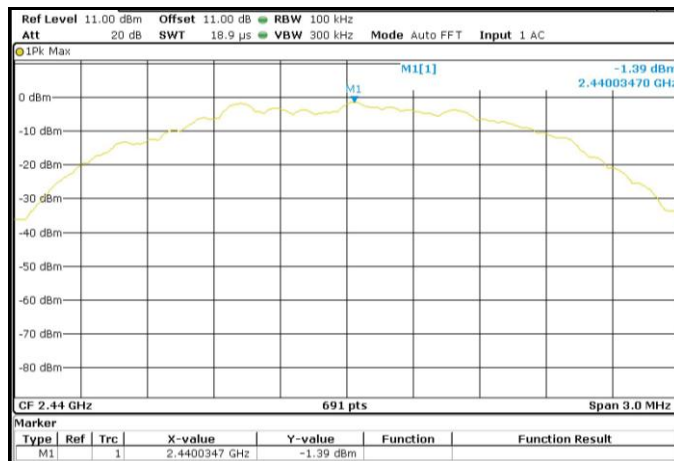
Report Reference. No.: 80260100007001

**Data rate: 2Mbps**

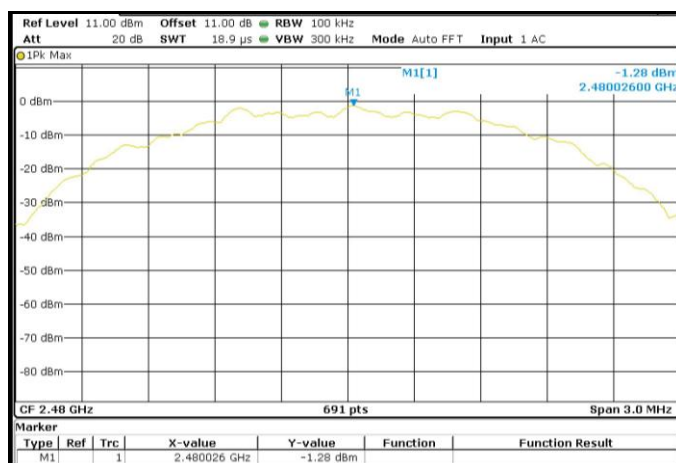
**Reference Plots:**



Channel Frequency: 2402MHz



Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

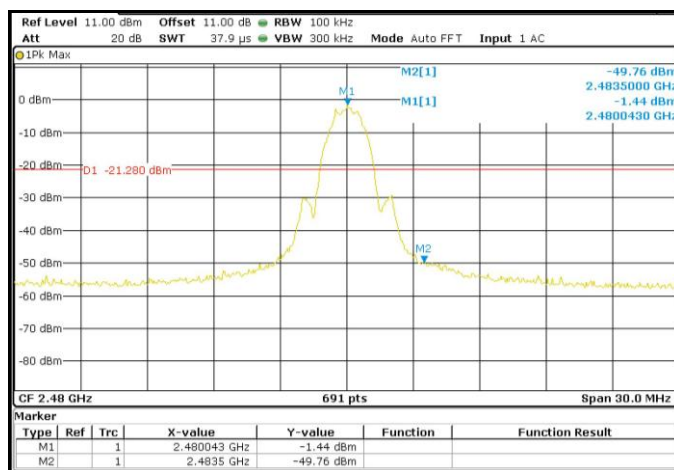
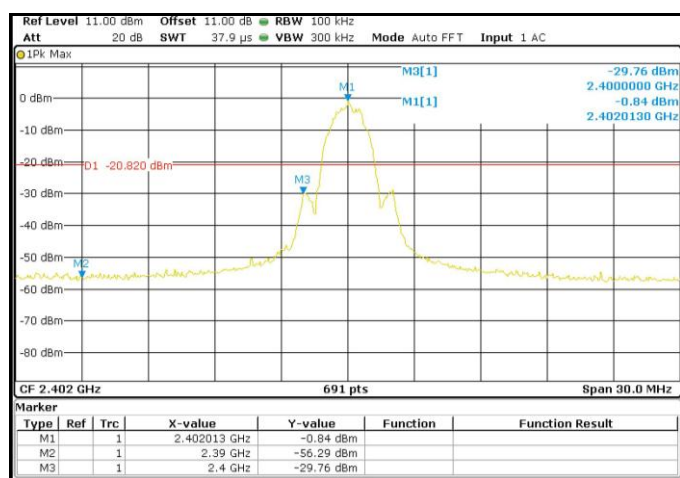
Report Reference. No.: 80260100007001

## 12.3.3 Band edge:

Table 14: Band Edge results of 2Mbps

| Channel Frequency (MHz) | Band edge frequency (MHz) | Value at band edge (A) (dBm) | Reference value (B) (dBm) | A-B (dBc) | Minimum Limit (dBc) |
|-------------------------|---------------------------|------------------------------|---------------------------|-----------|---------------------|
| 2402.00                 | 2400.00                   | -29.76                       | -0.82                     | -28.94    | -20                 |
| 2480.00                 | 2483.50                   | -49.76                       | -1.28                     | -48.48    | -20                 |

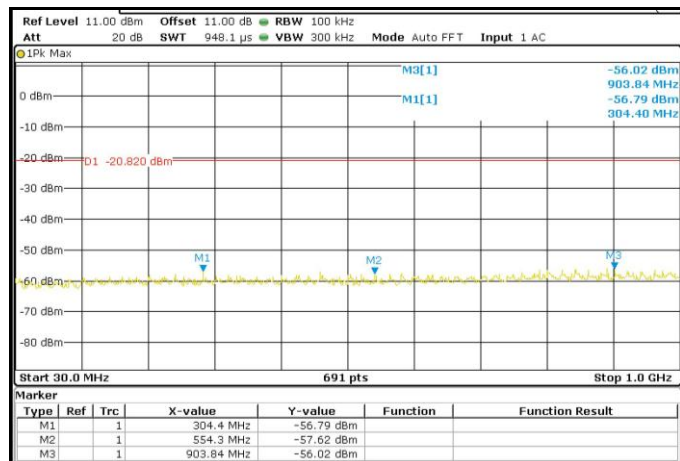
## Plots:



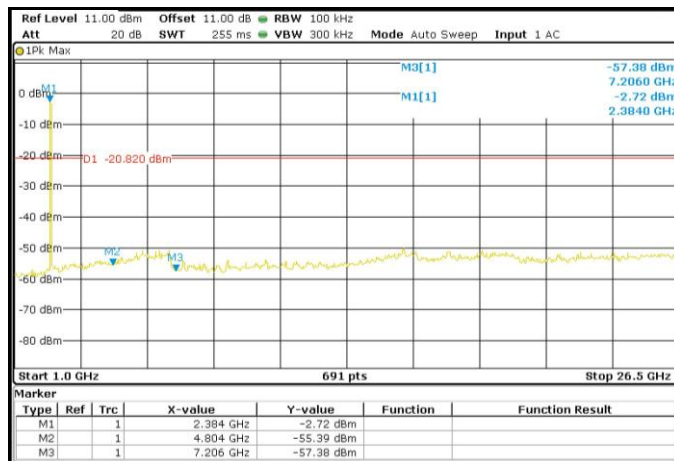
Report Reference. No.: 80260100007001

## 12.3.4 Conducted Spurious:

Channel Frequency: 2402MHz

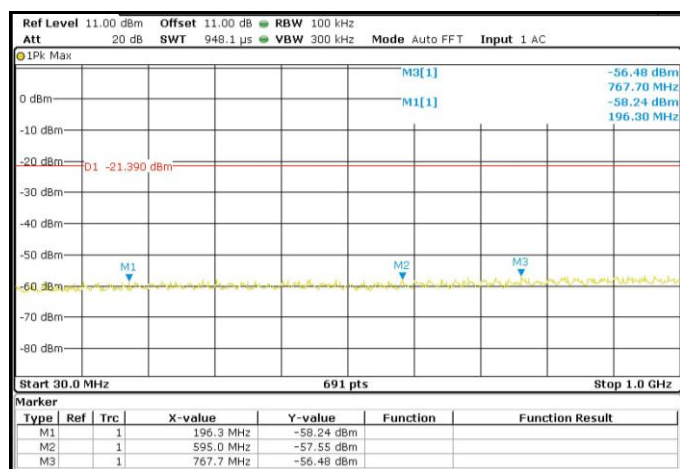


Frequency Range: 30MHz-1GHz

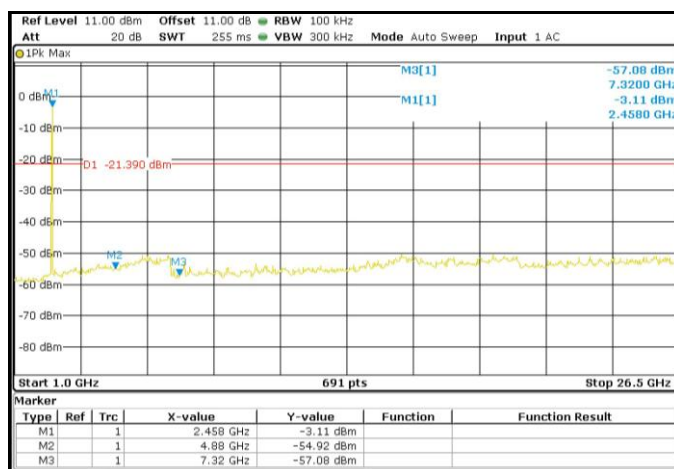


Frequency Range: 1GHz-26.5GHz

Channel Frequency: 2440MHz



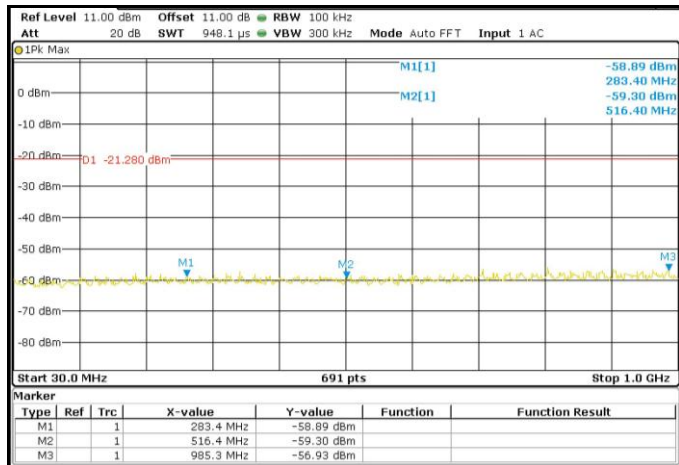
Frequency Range: 30MHz-1GHz



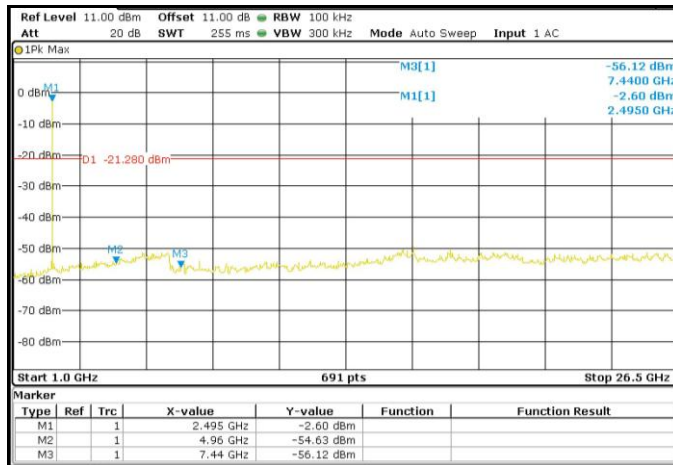
Frequency Range: 1GHz-26.5GHz

Report Reference. No.: 80260100007001

## Channel Frequency: 2480MHz



Frequency Range: 30MHz-1GHz



Frequency Range: 1GHz-26.5GHz

### KDB Guidelines applied:

Measurements were made as per section 8.5 & 8.7 in KDB 558074 D01 15.247 (d) Measurement Guidance v05r02

Report Reference. No.: 80260100007001

## 13 TEST CONDITIONS AND RESULTS – Spurious Radiated Emissions & Restricted Bands of Operation

|                       |                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------|
| Test Specification    | FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205) /<br>RSS-Gen Issue 5, Section 8.9 /8.10 |
| Test Method           | ANSI C63.10 - 2020                                                                           |
| Testing Location      | Semi Anechoic Chamber 9kHz - 1 GHz<br>Fully Anechoic Chamber 1 GHz - 26GHz                   |
| Measurement Bandwidth | 100 kHz for frequency range < 1GHz<br>1 MHz for Frequency range >1GHz                        |
| Measuring Distance    | 3 m                                                                                          |
| Requirement           | As per the limits mentioned in the below table                                               |
| Test Setup            | Refer <u>TEST METHODOLOGY</u>                                                                |

**Table 15: Transmitter limits for Radiated emission**

| Frequency (MHz) | Field strength (μV/m) | Field strength (dBμV/m) | Distance of Measurement (m) |
|-----------------|-----------------------|-------------------------|-----------------------------|
| 0.009 – 0.490   | 2400/F(kHz)           | 48.50 – 13.80           | 300*                        |
| 0.490 – 1.705   | 24000/F(kHz)          | 33.80 – 23.00           | 30*                         |
| 1.705 -30       | 30                    | 29.54                   | 30*                         |
| 30-88           | 100                   | 40.0                    | 3                           |
| 88-216          | 150                   | 43.5                    | 3                           |
| 216-960         | 200                   | 46.0                    | 3                           |
| Above 960       | 500                   | 54.0                    | 3                           |

**Remark:** \* The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300-meter, 30-meter and 30-meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

### 13.1 Laboratory Environmental Conditions

|                     |                  |
|---------------------|------------------|
| Ambient Temperature | : +15°C to +35°C |
| Relative humidity   | : 20% to 75%     |
| Power supply        | : 110V AC, 60Hz  |

### 13.2 EUT Conditions

|              |                  |
|--------------|------------------|
| Temperature  | : 0°C to +45°C   |
| Power supply | : 5V DC, 3A(max) |

Report Reference. No.: 80260100007001

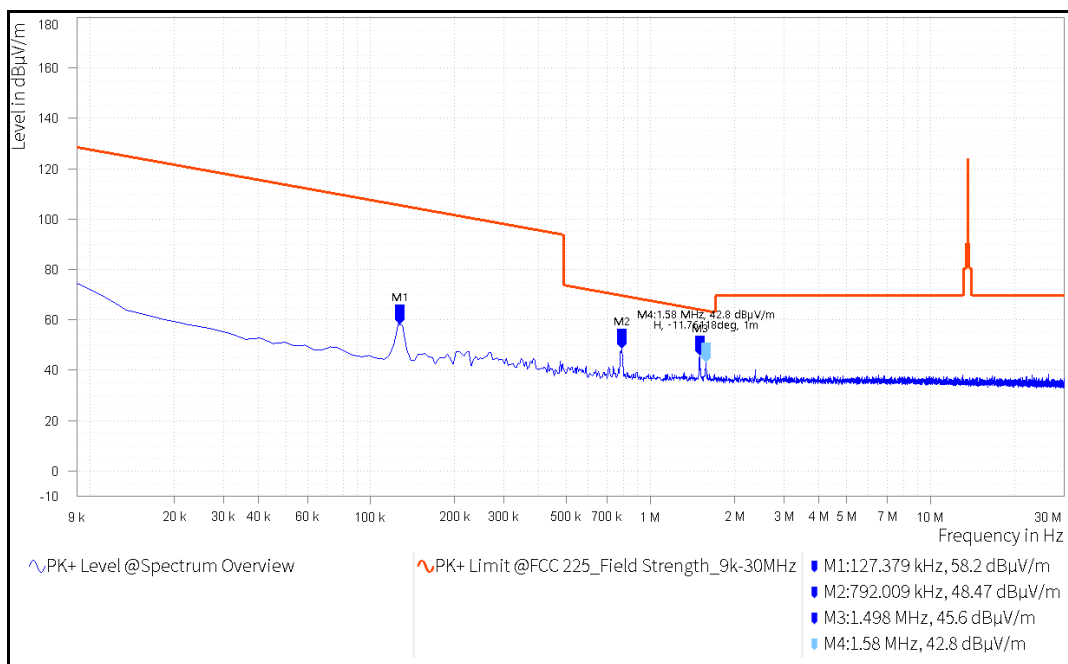
## Test result:

### Test results for frequency range 9kHz – 30MHz

#### Charging Mode – USB Charging Mode

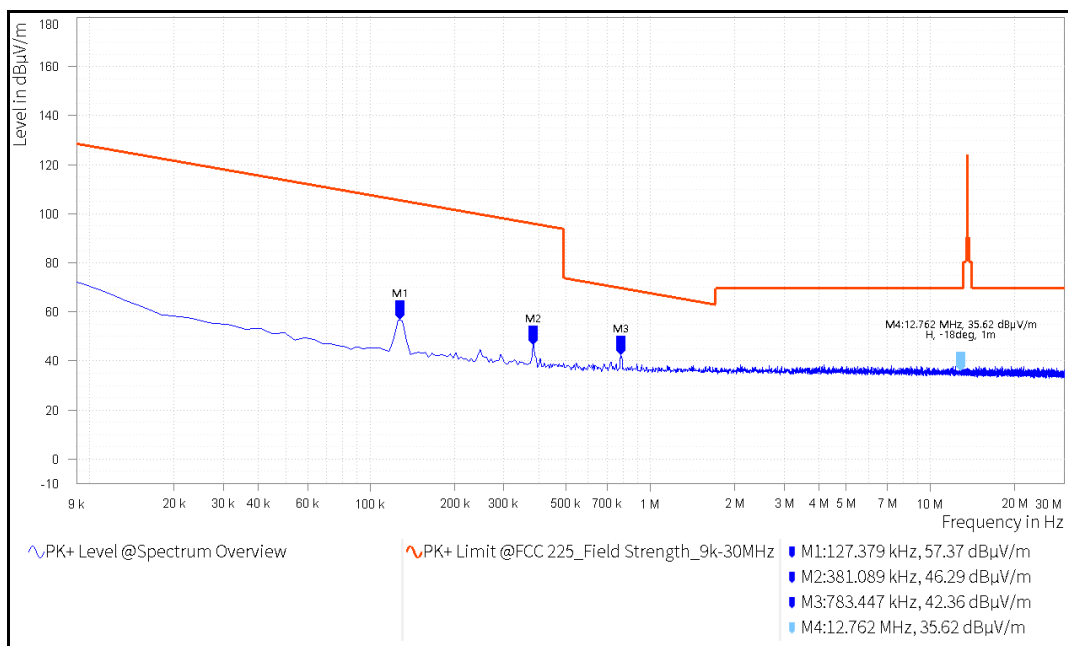
No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported.

#### Charging Mode – Wireless Qi Charging Mode



Frequency range: 9kHz-30MHz

Polarization: Parallel



Frequency range: 9kHz-30MHz

Polarization: Perpendicular

Report Reference. No.: 80260100007001

## Test results for frequency range 30MHz – 1GHz

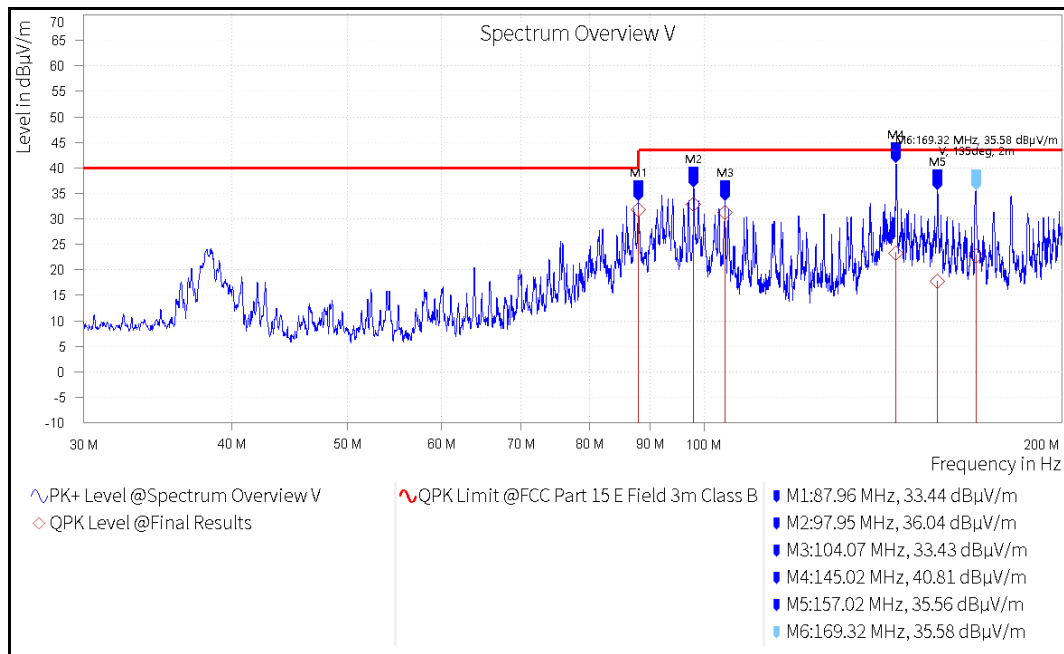
Charging Mode – USB Charging Mode

Table 16: Test results for frequency range 30MHz – 1GHz

| Antenna Polarization | Measured Frequency (MHz) | Measured Spurious emission (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|----------------------|--------------------------|-------------------------------------|----------------|-------------|
| Vertical             | 87.93                    | 31.77 (QP)                          | 40.00          | 8.23        |
|                      | 97.95                    | 32.82 (QP)                          | 43.50          | 10.68       |
|                      | 104.07                   | 31.20 (QP)                          | 43.50          | 12.30       |
|                      | 145.02                   | 23.28 (QP)                          | 43.50          | 20.22       |
|                      | 157.02                   | 17.71 (QP)                          | 43.50          | 25.79       |
|                      | 169.20                   | 22.71 (QP)                          | 43.50          | 20.79       |
|                      | 338.84                   | 26.82 (QP)                          | 46.00          | 19.18       |
|                      | 490.55                   | 23.69 (QP)                          | 46.00          | 22.31       |
|                      | 562.04                   | 27.51 (QP)                          | 46.00          | 18.49       |
|                      | 574.40                   | 29.39 (QP)                          | 46.00          | 16.61       |
|                      | 837.50                   | 30.95 (QP)                          | 46.00          | 15.05       |
|                      | 977.54                   | 27.08 (QP)                          | 54.00          | 26.92       |
| Horizontal           | 87.93                    | 37.87 (QP)                          | 40.00          | 2.13        |
|                      | 97.95                    | 40.02 (QP)                          | 43.50          | 3.48        |
|                      | 138.00                   | 39.61 (QP)                          | 43.50          | 3.89        |
|                      | 145.14                   | 29.39 (QP)                          | 43.50          | 14.11       |
|                      | 169.11                   | 29.17 (QP)                          | 43.50          | 14.33       |
|                      | 181.23                   | 32.60 (QP)                          | 43.50          | 10.90       |
|                      | 205.61                   | 34.21 (QP)                          | 43.50          | 9.29        |
|                      | 212.39                   | 39.28 (QP)                          | 43.50          | 4.22        |
|                      | 215.93                   | 40.71 (QP)                          | 43.50          | 2.79        |
|                      | 241.85                   | 31.02 (QP)                          | 46.00          | 14.98       |
|                      | 338.72                   | 33.58 (QP)                          | 46.00          | 12.42       |
|                      | 489.74                   | 26.99 (QP)                          | 46.00          | 19.01       |

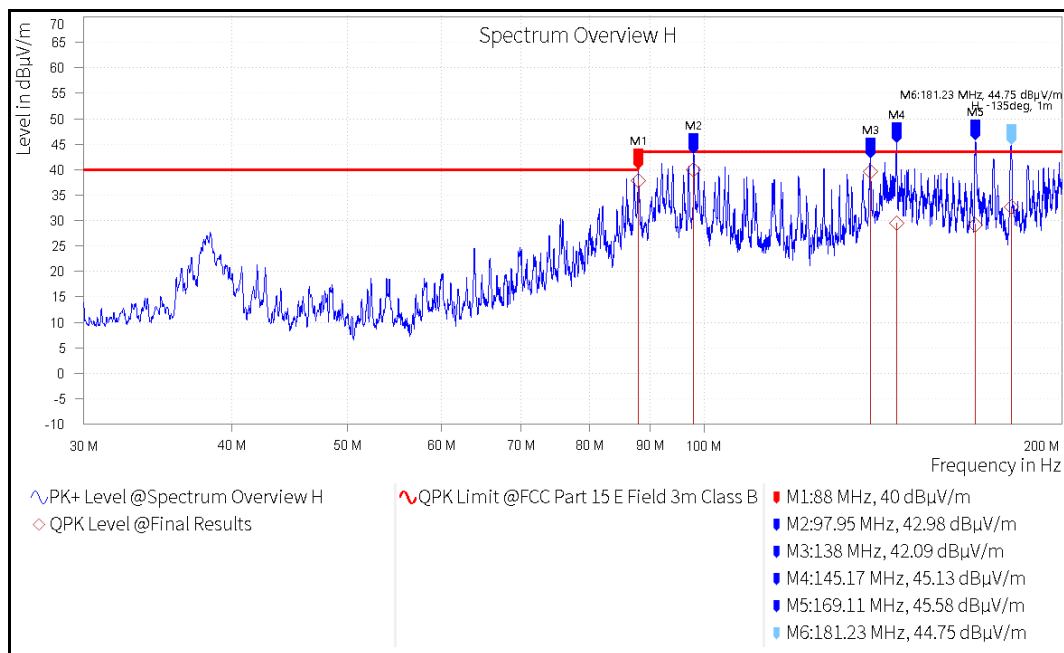
Report Reference. No.: 80260100007001

## Test Plots:



Frequency range: 30MHz -200MHz

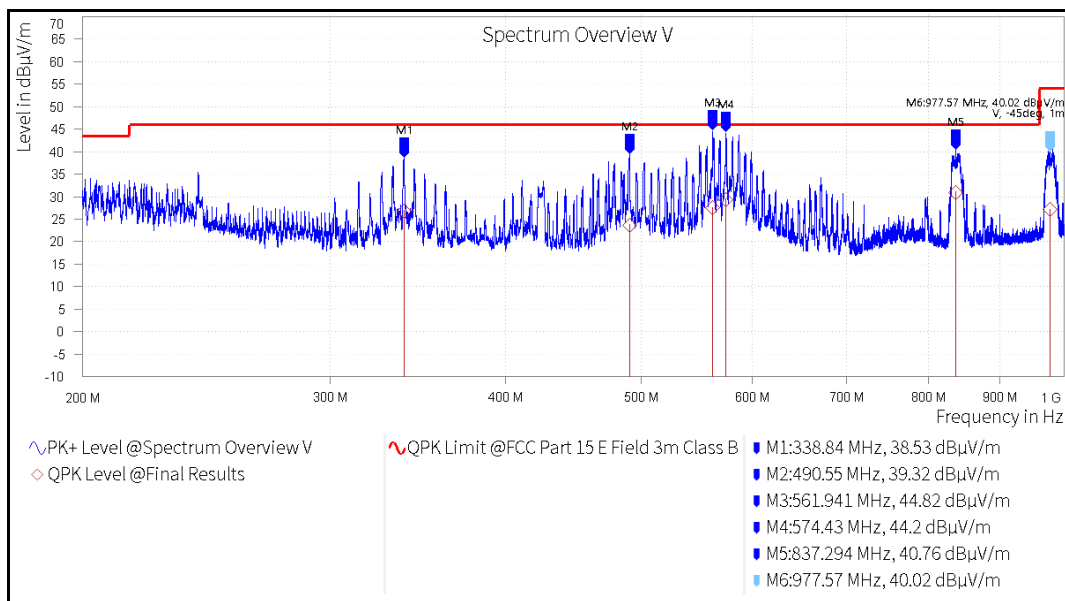
Polarization: Vertical



Frequency range: 30MHz -200MHz

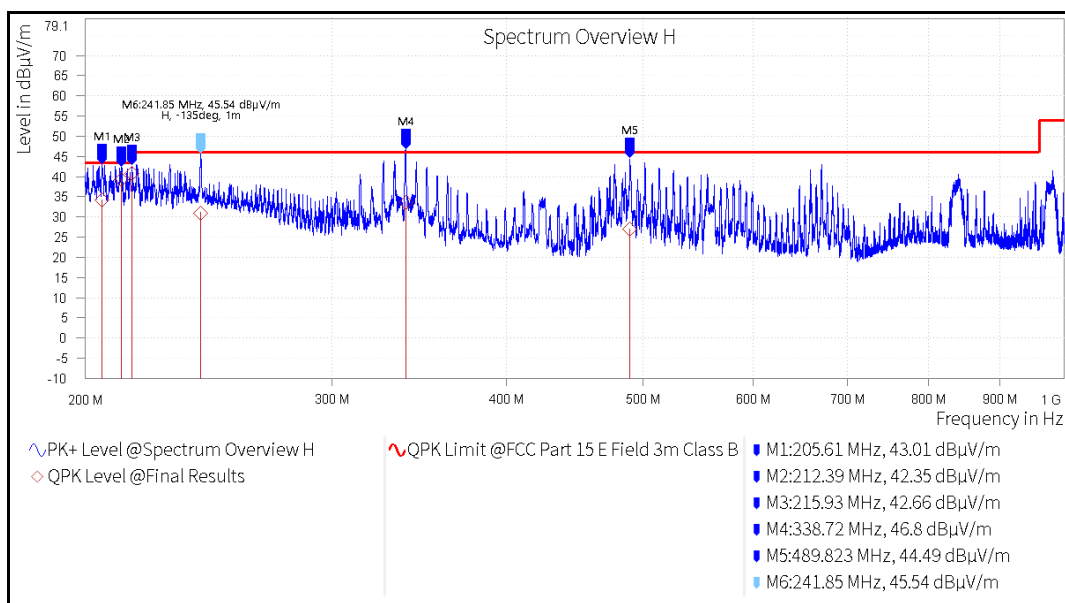
Polarization: Horizontal

Report Reference. No.: 80260100007001



Frequency range: 200MHz – 1GHz

Polarization: Vertical



Frequency range: 200MHz – 1GHz

Polarization: Horizontal

Report Reference. No.: 80260100007001

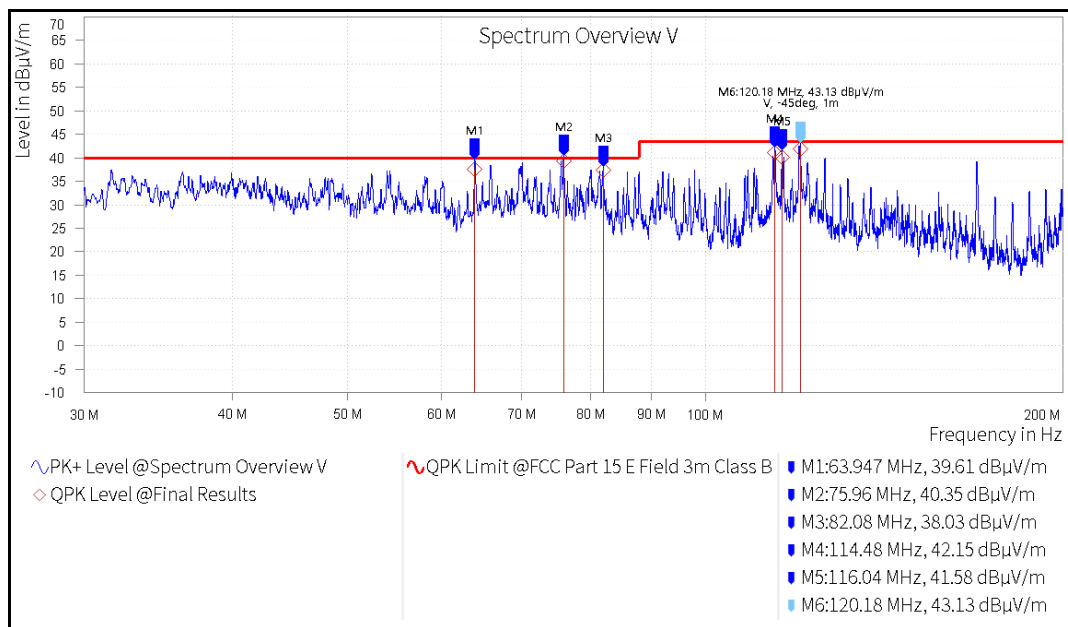
## Charging Mode – Wireless Qi Charging Mode

Table 17: Test results for frequency range 30MHz – 1GHz

| Antenna Polarization | Measured Frequency (MHz) | Measured Spurious emission (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|----------------------|--------------------------|-------------------------------------|----------------|-------------|
| Vertical             | 63.99                    | 37.53 (QP)                          | 40.00          | 2.47        |
|                      | 75.96                    | 39.30 (QP)                          | 40.00          | 0.70        |
|                      | 82.08                    | 37.35 (QP)                          | 40.00          | 2.65        |
|                      | 114.48                   | 41.04 (QP)                          | 43.50          | 2.46        |
|                      | 116.04                   | 40.13 (QP)                          | 43.50          | 3.37        |
|                      | 120.18                   | 41.97 (QP)                          | 43.50          | 1.53        |
|                      | 253.70                   | 22.81 (QP)                          | 46.00          | 23.19       |
|                      | 265.79                   | 22.29 (QP)                          | 46.00          | 23.71       |
|                      | 362.99                   | 26.91 (QP)                          | 46.00          | 19.09       |
|                      | 598.58                   | 26.57 (QP)                          | 46.00          | 19.43       |
|                      | 610.10                   | 23.18 (QP)                          | 46.00          | 22.82       |
|                      | 622.22                   | 17.00 (QP)                          | 46.00          | 29.00       |
| Horizontal           | 85.98                    | 31.73 (QP)                          | 40             | 8.27        |
|                      | 87.93                    | 32.82 (QP)                          | 40             | 7.18        |
|                      | 97.95                    | 39.57 (QP)                          | 43.5           | 3.93        |
|                      | 104.07                   | 38.79 (QP)                          | 43.5           | 4.71        |
|                      | 157.38                   | 24.95 (QP)                          | 43.5           | 18.55       |
|                      | 169.47                   | 29.99 (QP)                          | 43.5           | 13.51       |
|                      | 253.58                   | 31.75 (QP)                          | 46.00          | 14.25       |
|                      | 265.64                   | 29.12 (QP)                          | 46.00          | 16.88       |
|                      | 350.21                   | 25.43 (QP)                          | 46.00          | 20.57       |
|                      | 356.63                   | 33.57 (QP)                          | 46.00          | 12.43       |
|                      | 362.81                   | 35.19 (QP)                          | 46.00          | 10.81       |
|                      | 368.78                   | 33.00 (QP)                          | 46.00          | 13.00       |
|                      | 374.72                   | 34.49 (QP)                          | 46.00          | 11.51       |

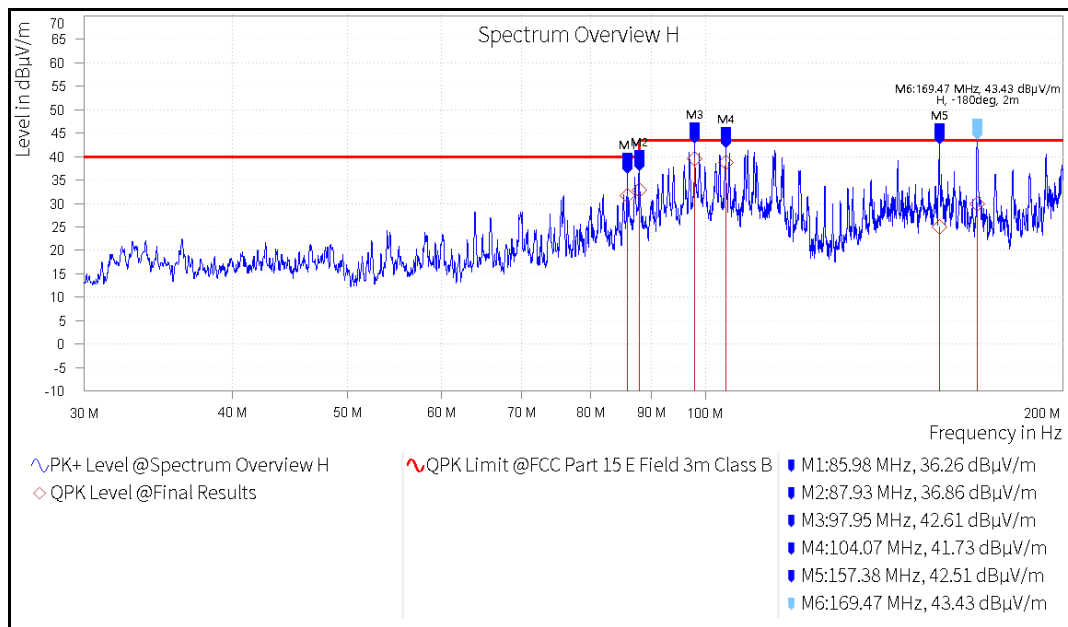
Report Reference. No.: 80260100007001

## Test Plots:



Frequency range: 30MHz -200MHz

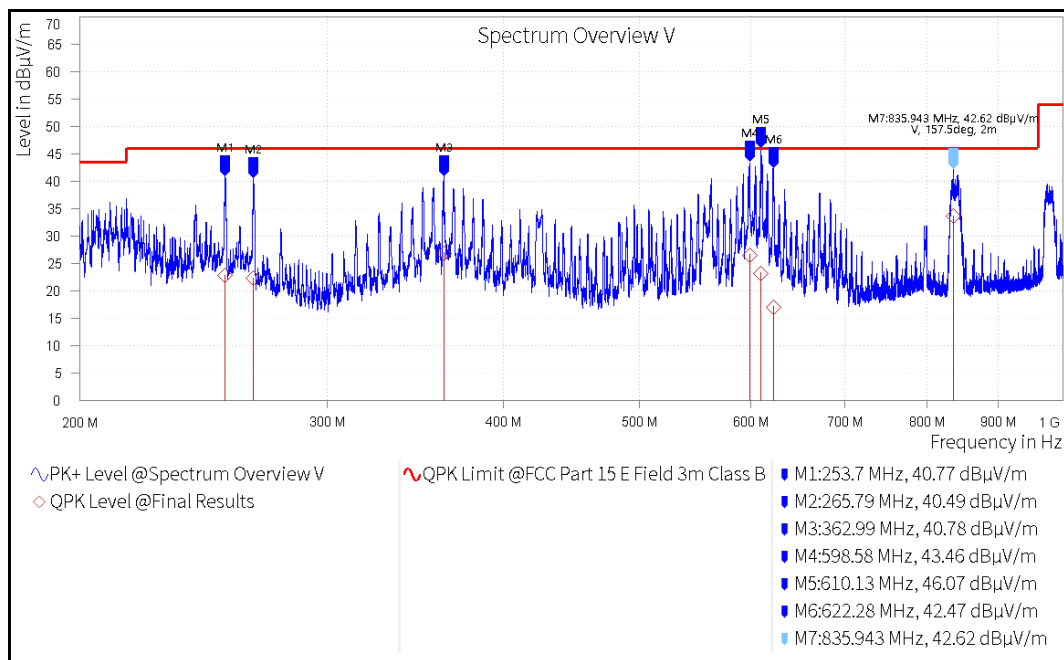
Polarization: Vertical



Frequency range: 30MHz -200MHz

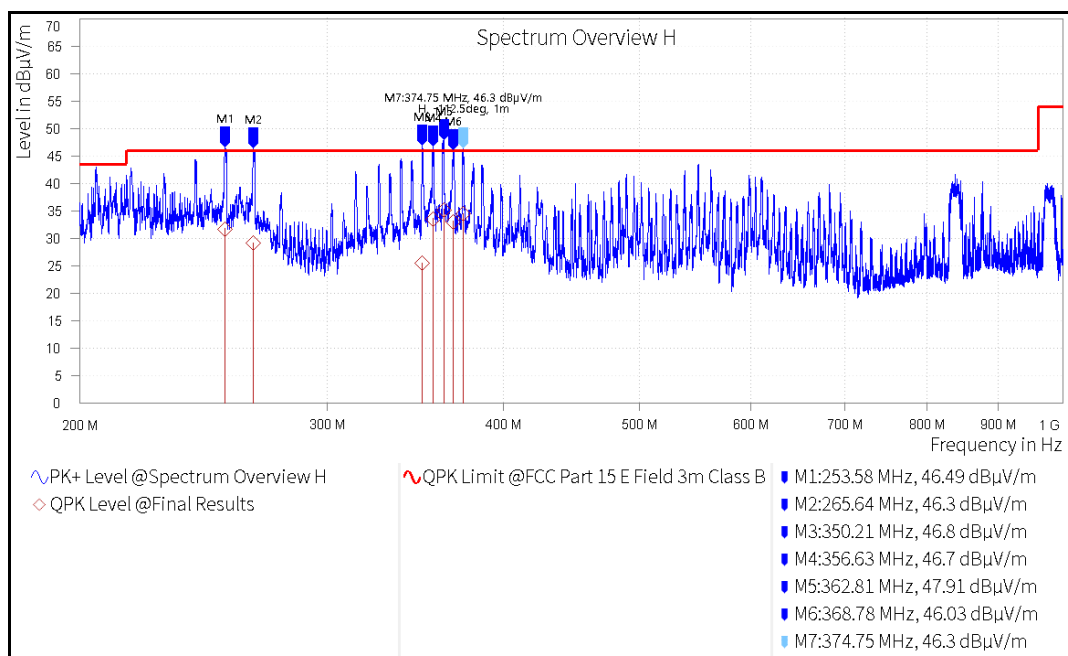
Polarization: Horizontal

Report Reference. No.: 80260100007001



Frequency range: 200MHz – 1GHz

Polarization: Vertical



Frequency range: 200MHz – 1GHz

Polarization: Horizontal

Report Reference. No.: 80260100007001

## Test results for the frequencies above 1GHz:

Data Rate: 1Mbps

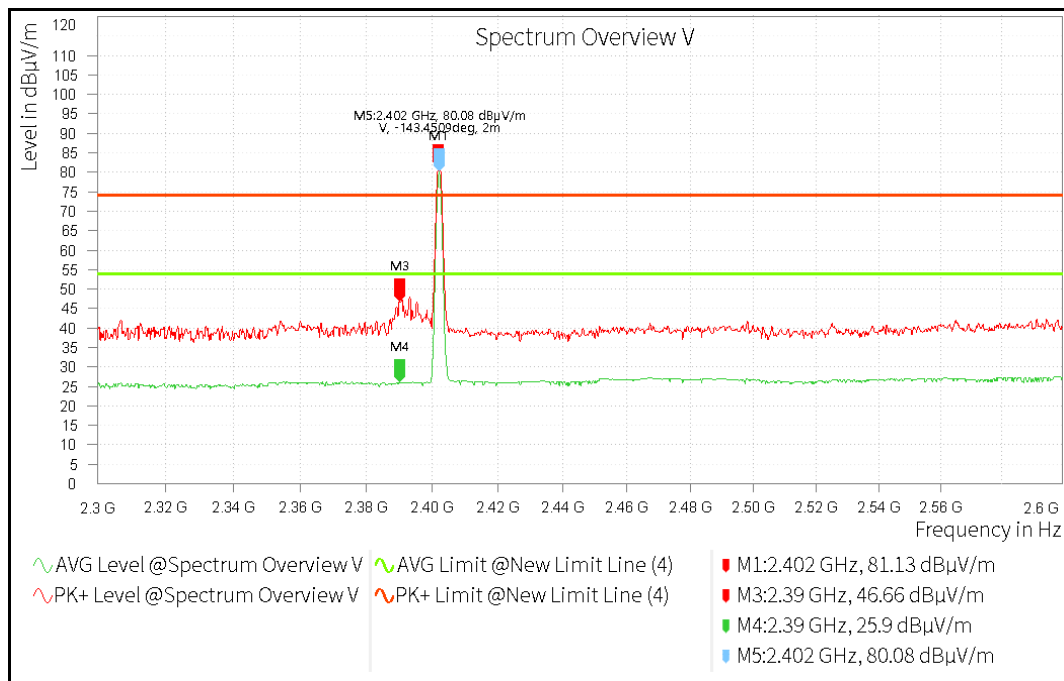
Table 18: 1Mbps Test results for above 1GHz

| Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-------------------------|--------------------------|----------------------|-------------------------|----------------|-------------|
| 2402                    | 2402(Pk)                 | Vertical             | 81.13                   | -              | -           |
|                         | 2402(Av)                 |                      | 80.08                   | -              | -           |
|                         | 2390(Pk)                 |                      | 46.66                   | 74.00          | -27.34      |
|                         | 2390(Av)                 |                      | 25.90                   | 54.00          | -28.10      |
|                         | 4804(Pk)                 |                      | 43.44                   | 74.00          | -30.56      |
|                         | 4804(Av)                 |                      | 31.52                   | 54.00          | -22.48      |
|                         | 7206(Pk)                 |                      | 49.78                   | 74.00          | -24.22      |
|                         | 7206(Av)                 |                      | 37.34                   | 54.00          | -16.66      |
|                         | 2402(Pk)                 | Horizontal           | 79.74                   | -              | -           |
|                         | 2402(Av)                 |                      | 78.66                   | -              | -           |
|                         | 2390(Pk)                 |                      | 40.42                   | 74.00          | -33.58      |
|                         | 2390(Av)                 |                      | 26.18                   | 54.00          | -27.82      |
|                         | 4804(Pk)                 |                      | 42.38                   | 74.00          | -31.62      |
|                         | 4804(Av)                 |                      | 31.35                   | 54.00          | -22.65      |
|                         | 7206(Pk)                 |                      | 49.73                   | 74.00          | -24.27      |
|                         | 7206(Av)                 |                      | 37.66                   | 54.00          | -16.34      |
| 2440                    | 2440(Pk)                 | Vertical             | 79.97                   | -              | -           |
|                         | 2440(Av)                 |                      | 78.59                   | -              | -           |
|                         | 4880(Pk)                 |                      | 43.63                   | 74.00          | -30.37      |
|                         | 4880(Av)                 |                      | 31.96                   | 54.00          | -22.04      |
|                         | 7320(Pk)                 |                      | 49.47                   | 74.00          | -24.53      |
|                         | 7320(Av)                 |                      | 37.24                   | 54.00          | -16.76      |
|                         | 2440(Pk)                 | Horizontal           | 77.51                   | -              | -           |
|                         | 2440(Av)                 |                      | 76.53                   | -              | -           |
|                         | 4880(Pk)                 |                      | 43.44                   | 74.00          | -30.56      |
|                         | 4880(Av)                 |                      | 31.09                   | 54.00          | -22.91      |
|                         | 7320(Pk)                 |                      | 48.82                   | 74.00          | -25.18      |
|                         | 7320(Av)                 |                      | 37.21                   | 54.00          | -16.79      |
| 2480                    | 2480(Pk)                 | Vertical             | 81.80                   | -              | -           |
|                         | 2480(Av)                 |                      | 80.48                   | -              | -           |
|                         | 2483.5(Pk)               |                      | 40.58                   | 74.00          | -33.42      |
|                         | 2483.5(Av)               |                      | 28.56                   | 54.00          | -25.44      |
|                         | 4960(Pk)                 |                      | 44.41                   | 74.00          | -29.59      |
|                         | 4960(Av)                 |                      | 32.37                   | 54.00          | -21.63      |
|                         | 7440(Pk)                 |                      | 49.14                   | 74.00          | -24.86      |
|                         | 7440(Av)                 |                      | 36.67                   | 54.00          | -17.33      |
|                         | 2480(Pk)                 | Horizontal           | 81.86                   | -              | -           |
|                         | 2480(Av)                 |                      | 80.55                   | -              | -           |
|                         | 2483.5(Pk)               |                      | 39.45                   | 74.00          | -34.55      |
|                         | 2483.5(Av)               |                      | 28.54                   | 54.00          | -25.46      |
|                         | 4960(Pk)                 |                      | 43.24                   | 74.00          | -30.76      |
|                         | 4960(Av)                 |                      | 31.51                   | 54.00          | -22.49      |
|                         | 7440(Pk)                 |                      | 48.25                   | 74.00          | -25.75      |
|                         | 7440(Av)                 |                      | 36.46                   | 54.00          | -17.54      |

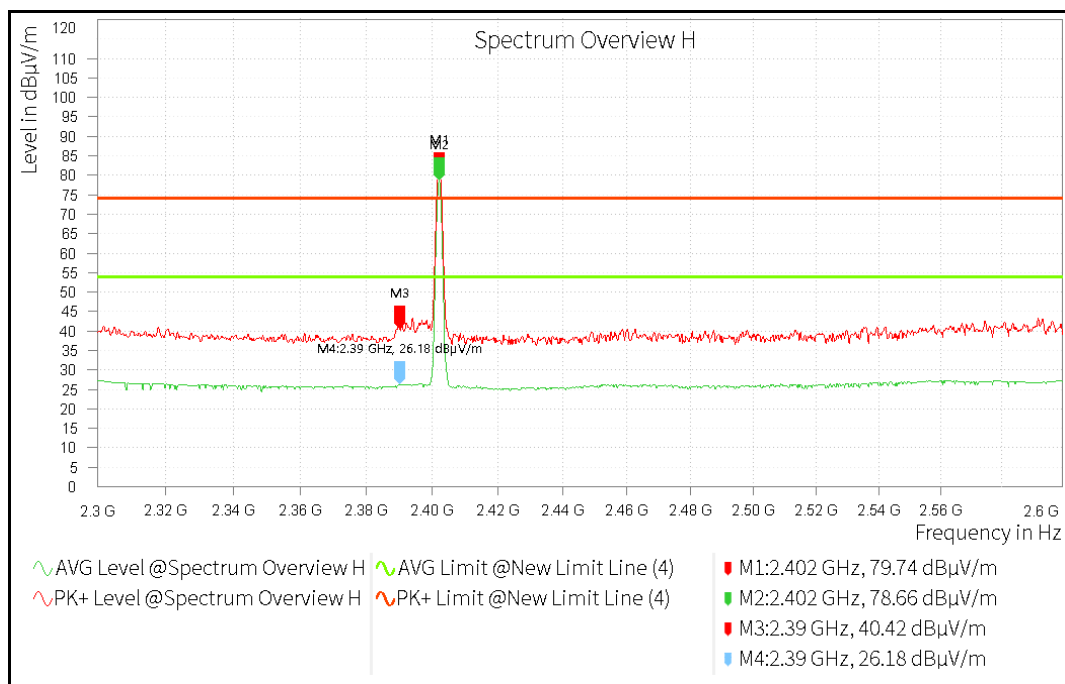
Report Reference. No.: 80260100007001

## Test Plots:

**Channel Frequency: 2402MHz**

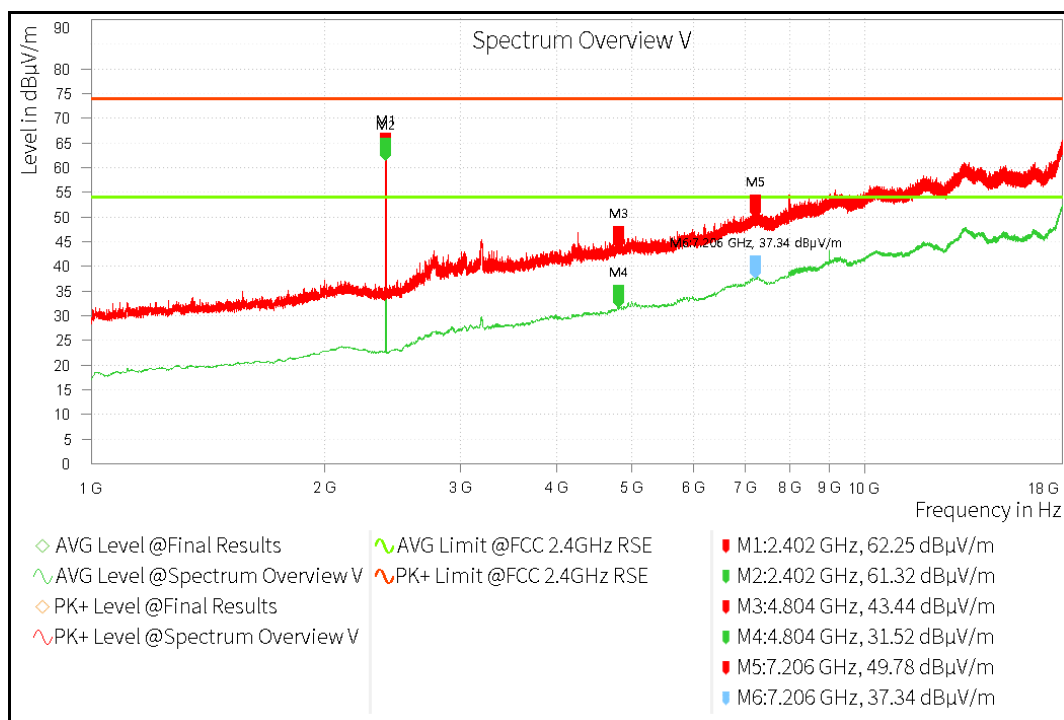


**Polarization: Vertical**



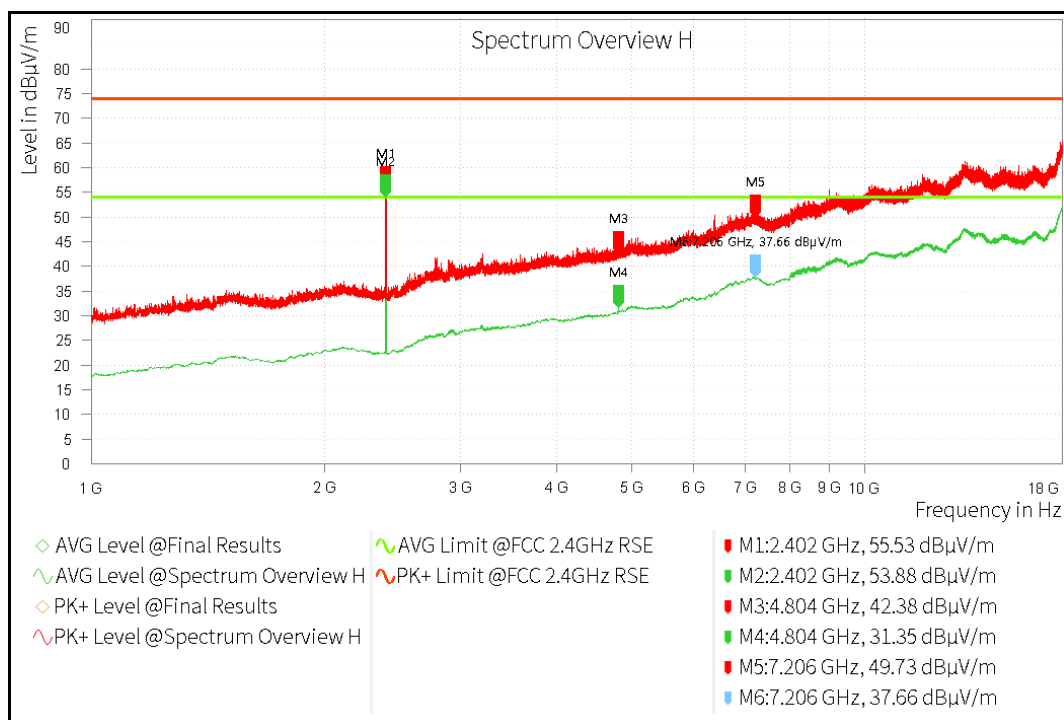
**Polarization: Horizontal**

Report Reference. No.: 80260100007001



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

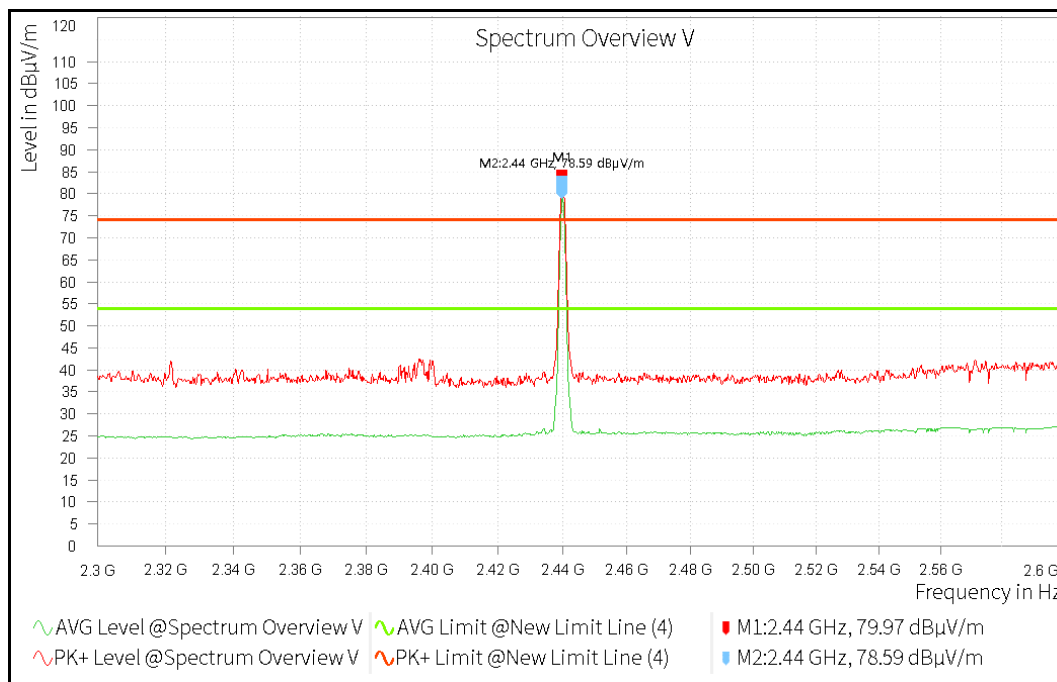


**Frequency Range: 1GHz-18GHz**

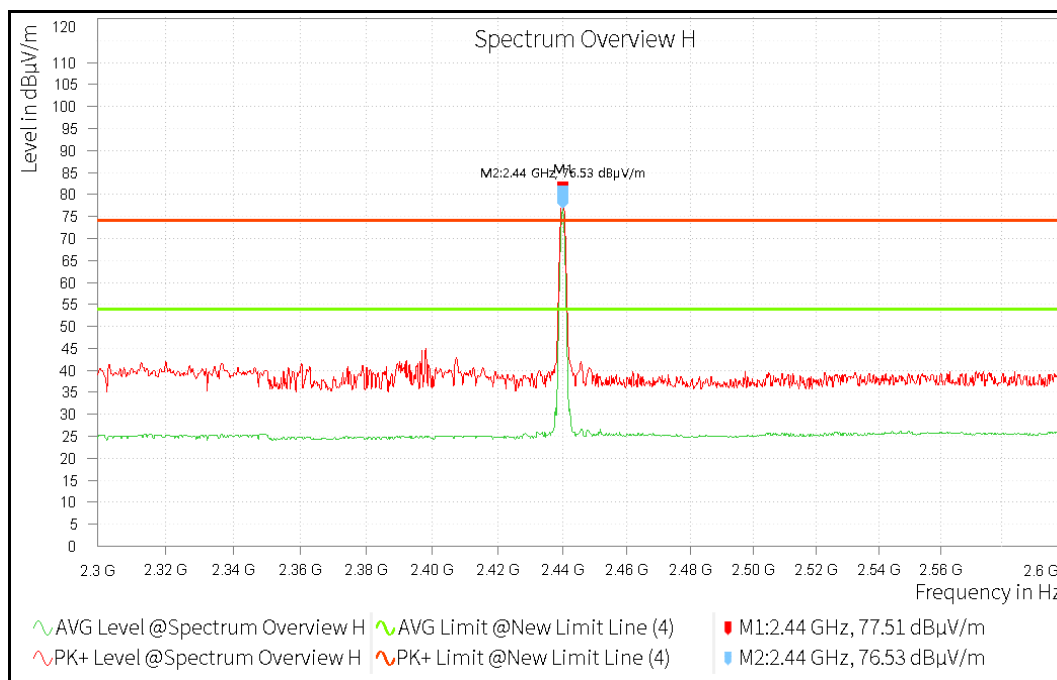
**Polarization: Horizontal**

Report Reference. No.: 80260100007001

## Channel Frequency: 2440MHz

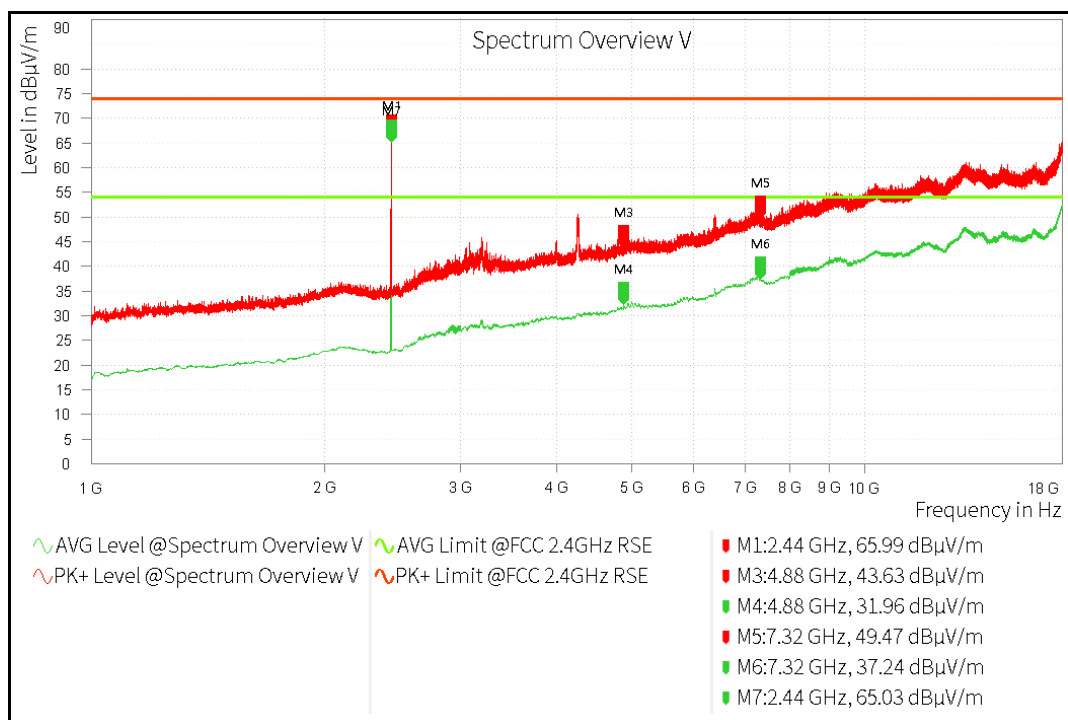


**Polarization: Vertical**



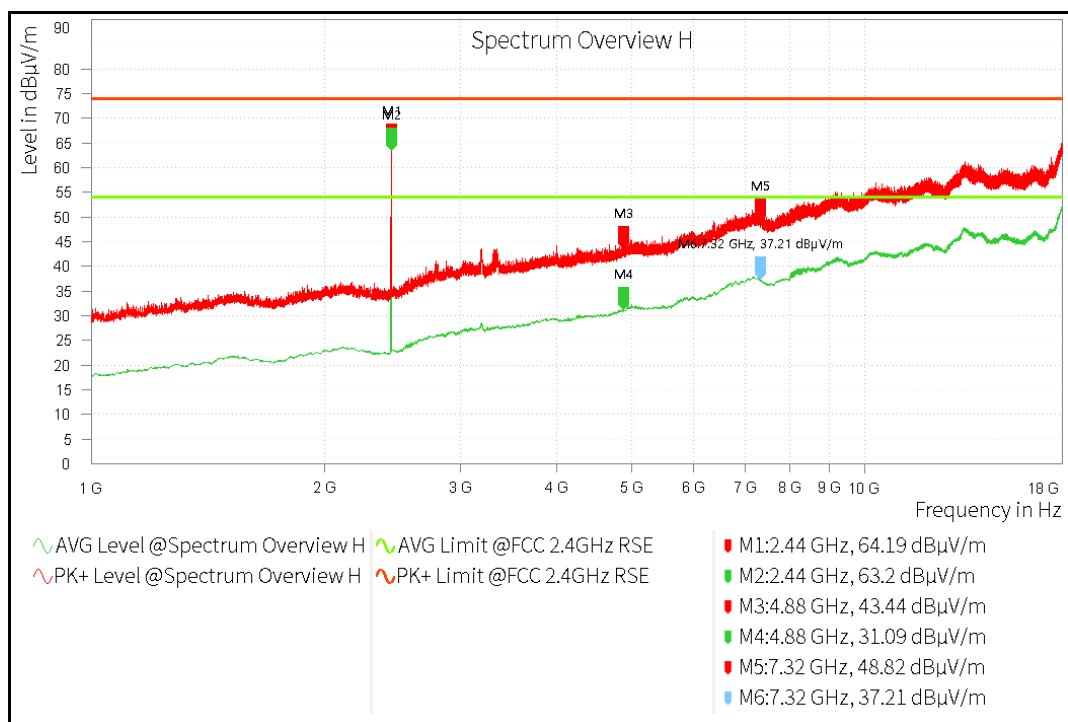
**Polarization: Horizontal**

Report Reference. No.: 80260100007001



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

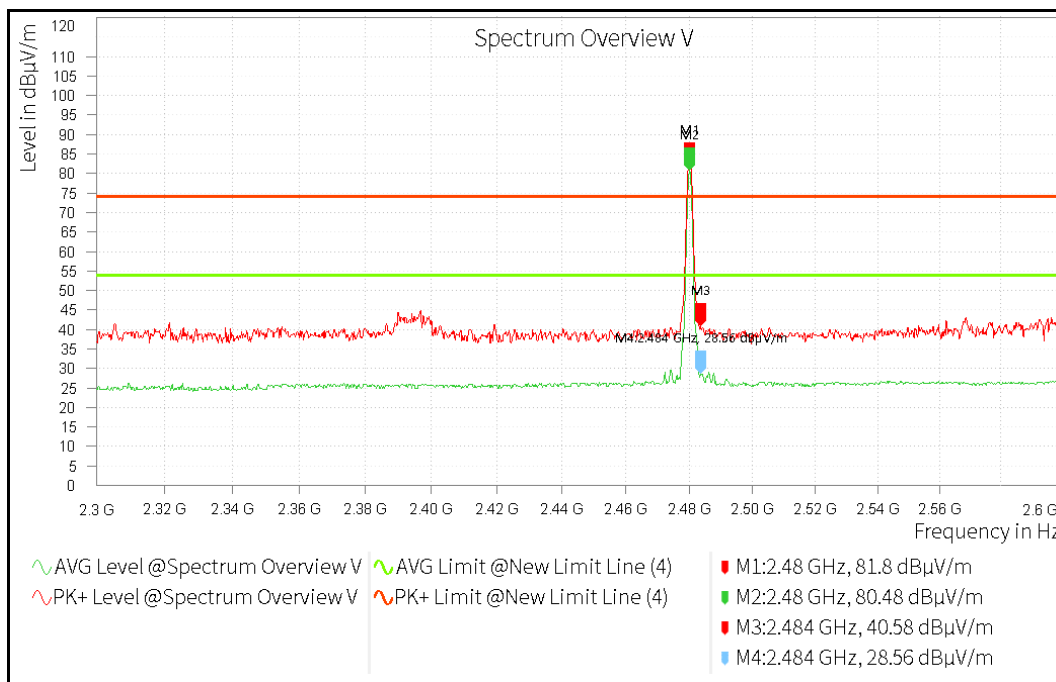


**Frequency Range: 1GHz-18GHz**

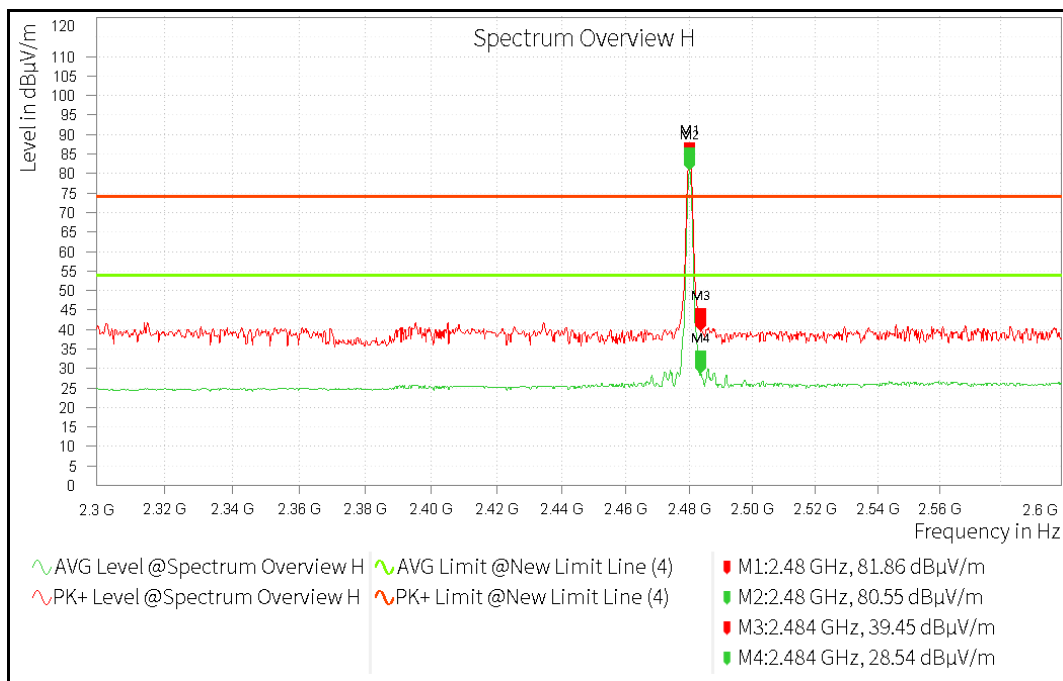
**Polarization: Horizontal**

Report Reference. No.: 80260100007001

## Channel Frequency: 2480MHz

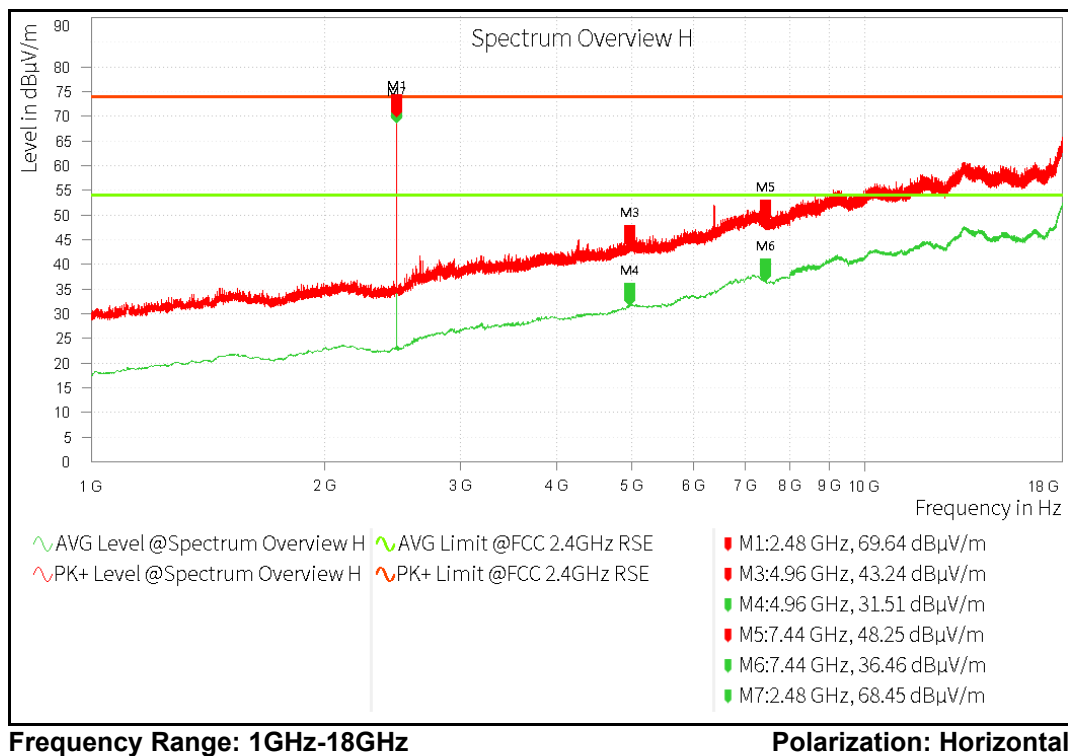
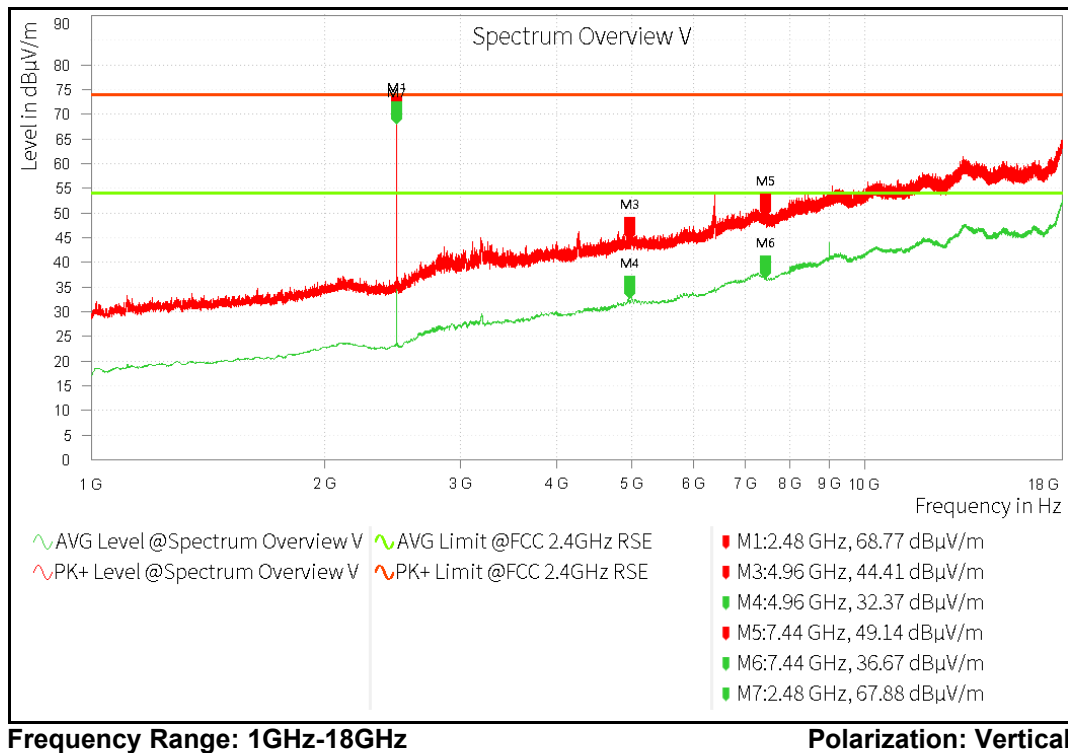


**Polarization: Vertical**



**Polarization: Horizontal**

Report Reference. No.: 80260100007001



Report Reference. No.: 80260100007001

Data Rate: 2Mbps

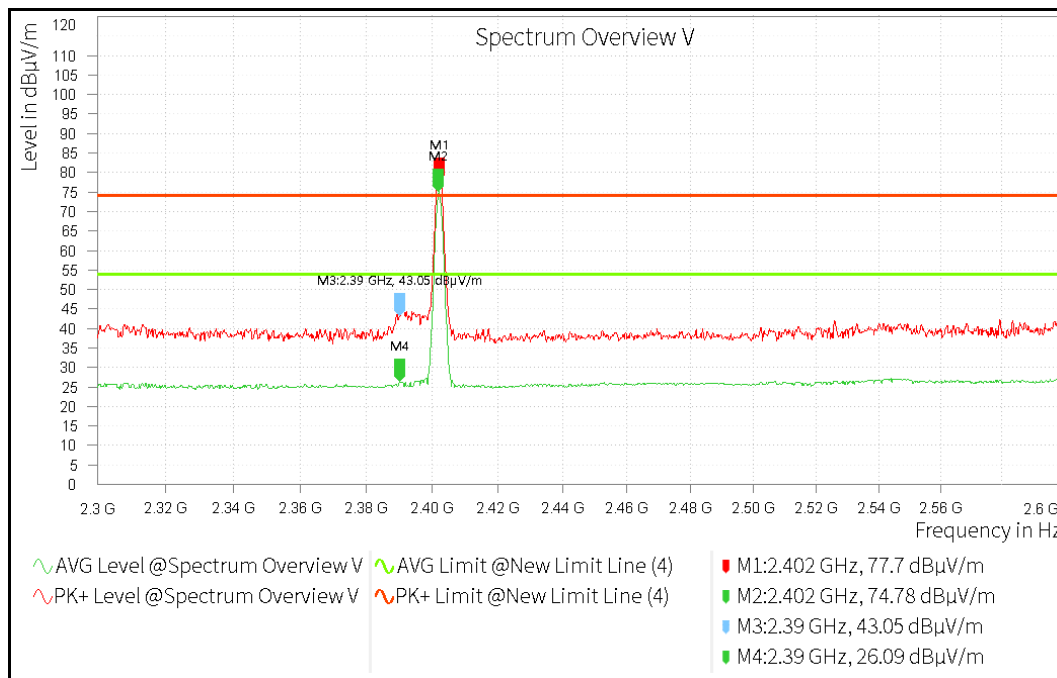
Table 19: 2Mbps Test results for above 1GHz

| Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-------------------------|--------------------------|----------------------|-------------------------|----------------|-------------|
| 2402                    | 2402(Pk)                 | Vertical             | 77.70                   | -              | -           |
|                         | 2402(Av)                 |                      | 74.78                   | -              | -           |
|                         | 2390(Pk)                 |                      | 43.05                   | 74.00          | -30.95      |
|                         | 2390(Av)                 |                      | 26.09                   | 54.00          | -27.91      |
|                         | 4804(Pk)                 |                      | 44.12                   | 74.00          | -29.88      |
|                         | 4804(Av)                 |                      | 31.84                   | 54.00          | -22.16      |
|                         | 7206(Pk)                 |                      | 49.73                   | 74.00          | -24.27      |
|                         | 7206(Av)                 |                      | 37.29                   | 54.00          | -16.71      |
|                         | 2402(Pk)                 | Horizontal           | 77.83                   | -              | -           |
|                         | 2402(Av)                 |                      | 75.55                   | -              | -           |
|                         | 2390(Pk)                 |                      | 37.72                   | 74.00          | -36.28      |
|                         | 2390(Av)                 |                      | 25.96                   | 54.00          | -28.04      |
|                         | 4804(Pk)                 |                      | 42.89                   | 74.00          | -31.11      |
|                         | 4804(Av)                 |                      | 31.02                   | 54.00          | -22.98      |
|                         | 7206(Pk)                 |                      | 48.78                   | 74.00          | -25.22      |
|                         | 7206(Av)                 |                      | 37.59                   | 54.00          | -16.41      |
| 2440                    | 2440(Pk)                 | Vertical             | 80.67                   | -              | -           |
|                         | 2440(Av)                 |                      | 77.59                   | -              | -           |
|                         | 4880(Pk)                 |                      | 43.55                   | 74.00          | -30.45      |
|                         | 4880(Av)                 |                      | 31.62                   | 54.00          | -22.38      |
|                         | 7320(Pk)                 |                      | 48.97                   | 74.00          | -25.03      |
|                         | 7320(Av)                 |                      | 37.17                   | 54.00          | -16.83      |
|                         | 2440(Pk)                 | Horizontal           | 78.28                   | -              | -           |
|                         | 2440(Av)                 |                      | 74.47                   | -              | -           |
|                         | 4880(Pk)                 |                      | 42.29                   | 74.00          | -31.71      |
|                         | 4880(Av)                 |                      | 31.23                   | 54.00          | -22.77      |
|                         | 7320(Pk)                 |                      | 48.89                   | 74.00          | -25.11      |
|                         | 7320(Av)                 |                      | 37.19                   | 54.00          | -16.81      |
| 2480                    | 2480(Pk)                 | Vertical             | 80.89                   | -              | -           |
|                         | 2480(Av)                 |                      | 77.79                   | -              | -           |
|                         | 2483.5(Pk)               |                      | 42.78                   | 74.00          | -31.22      |
|                         | 2483.5(Av)               |                      | 30.48                   | 54.00          | -23.52      |
|                         | 4960(Pk)                 |                      | 43.24                   | 74.00          | -30.76      |
|                         | 4960(Av)                 |                      | 31.89                   | 54.00          | -22.11      |
|                         | 7440(Pk)                 |                      | 48.64                   | 74.00          | -25.36      |
|                         | 7440(Av)                 |                      | 36.71                   | 54.00          | -17.29      |
|                         | 2480(Pk)                 | Horizontal           | 80.08                   | -              | -           |
|                         | 2480(Av)                 |                      | 77.45                   | -              | -           |
|                         | 2483.5(Pk)               |                      | 42.85                   | 74.00          | -31.15      |
|                         | 2483.5(Av)               |                      | 29.40                   | 54.00          | -24.60      |
|                         | 4960(Pk)                 |                      | 43.33                   | 74.00          | -30.67      |
|                         | 4960(Av)                 |                      | 31.48                   | 54.00          | -22.52      |
|                         | 7440(Pk)                 |                      | 47.83                   | 74.00          | -26.17      |
|                         | 7440(Av)                 |                      | 36.45                   | 54.00          | -17.55      |

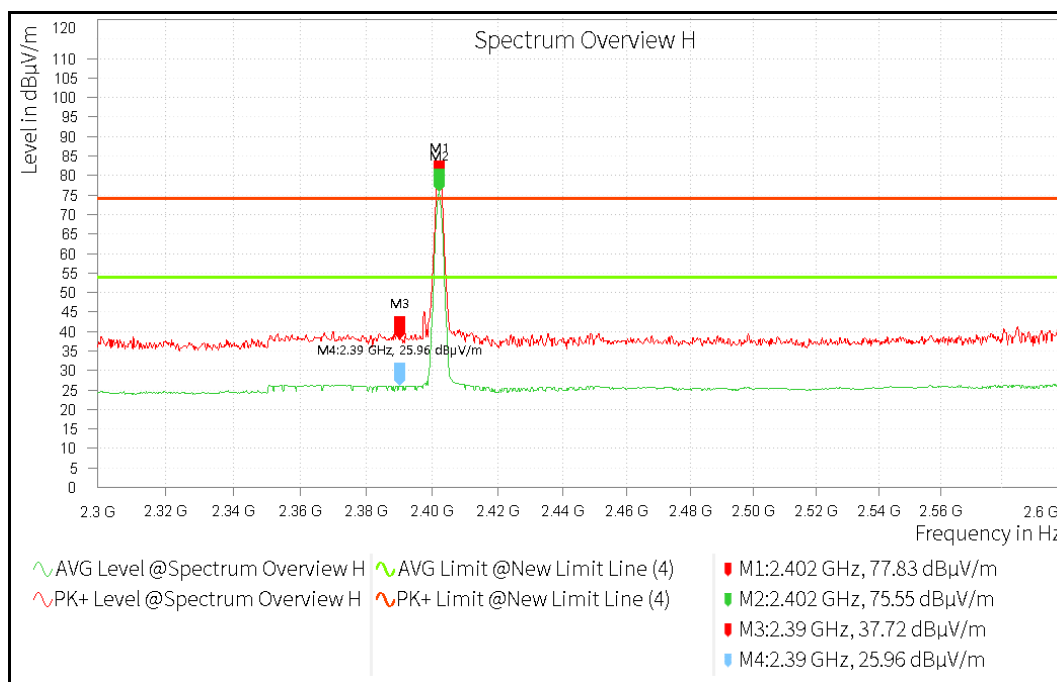
Report Reference. No.: 80260100007001

## Test Plots:

**Channel Frequency: 2402MHz**

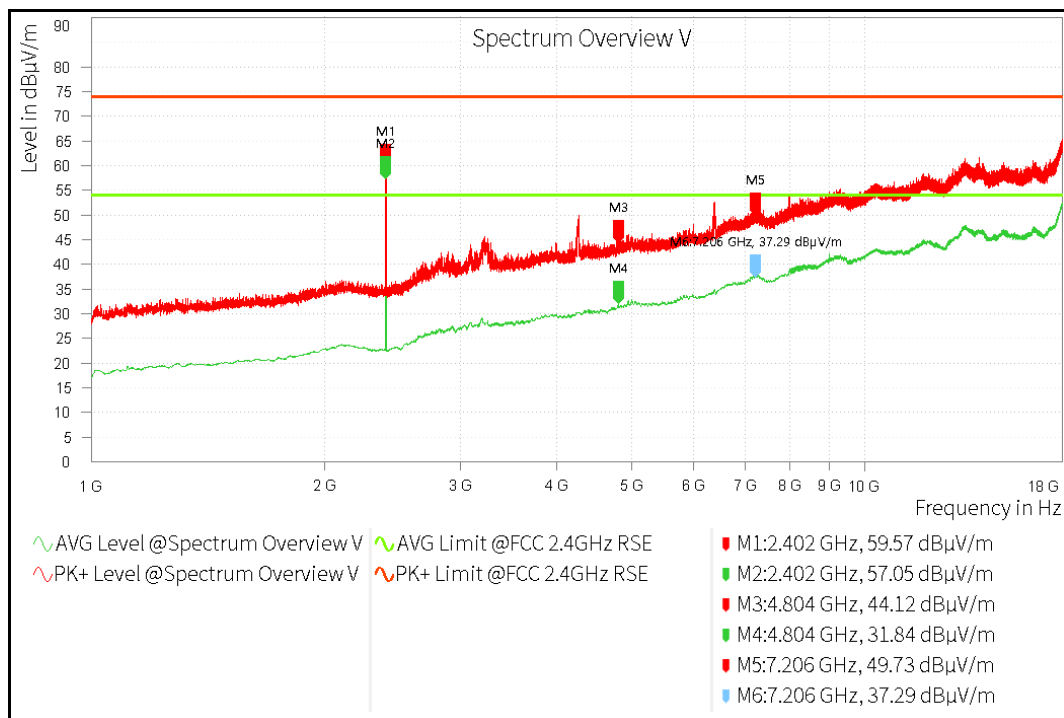


**Polarization: Vertical**



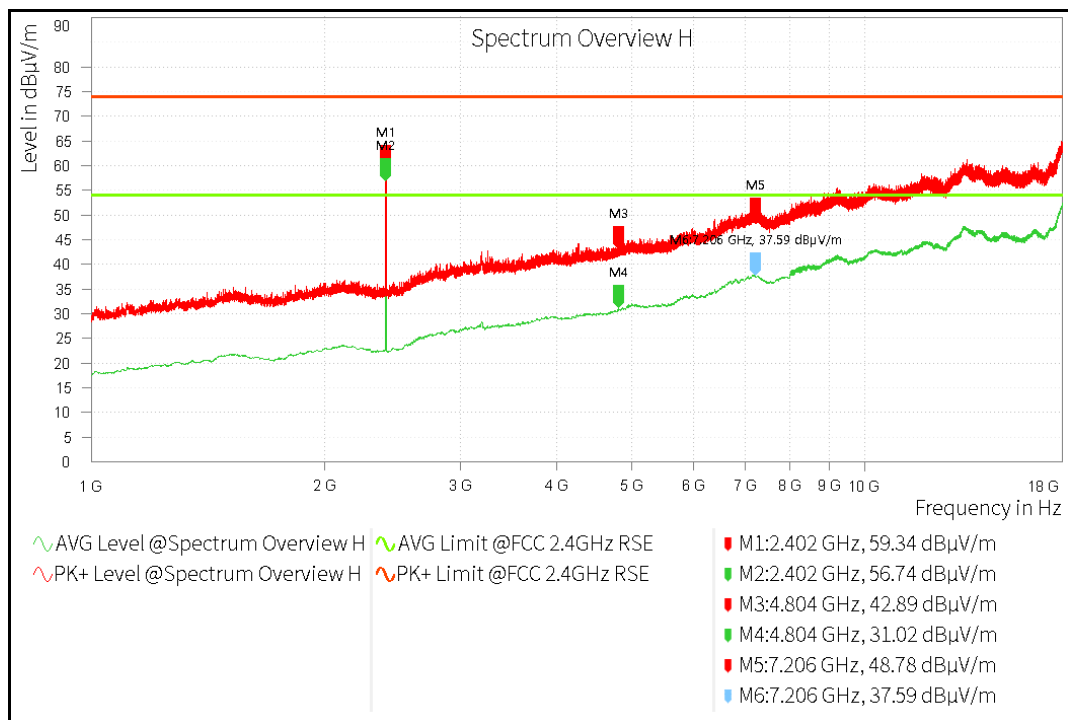
**Polarization: Horizontal**

Report Reference. No.: 80260100007001



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

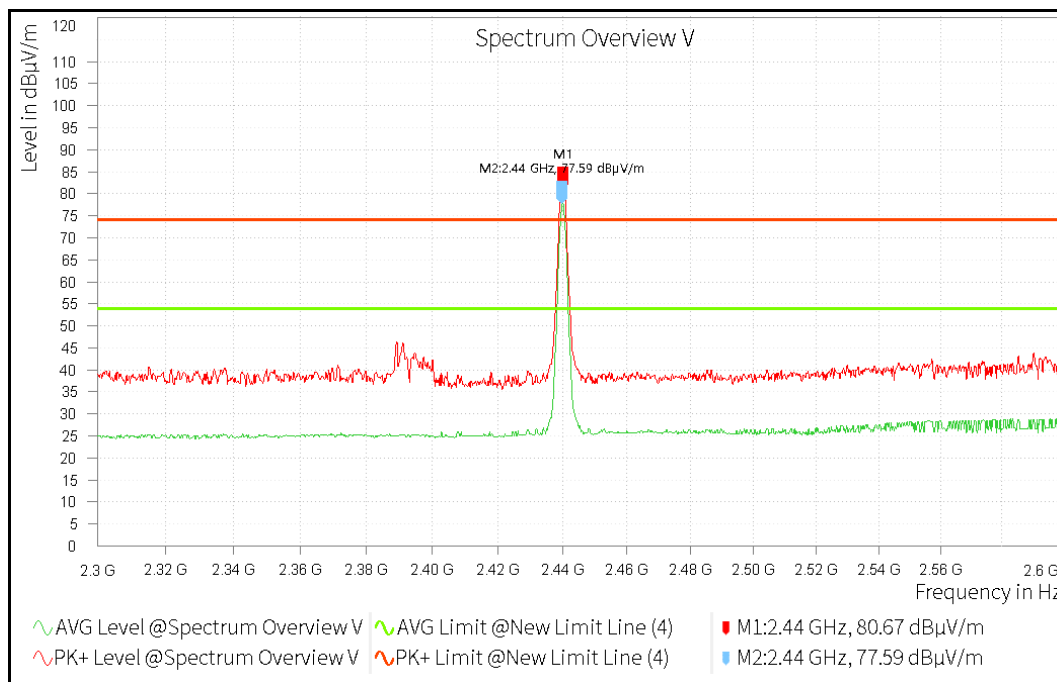


**Frequency Range: 1GHz-18GHz**

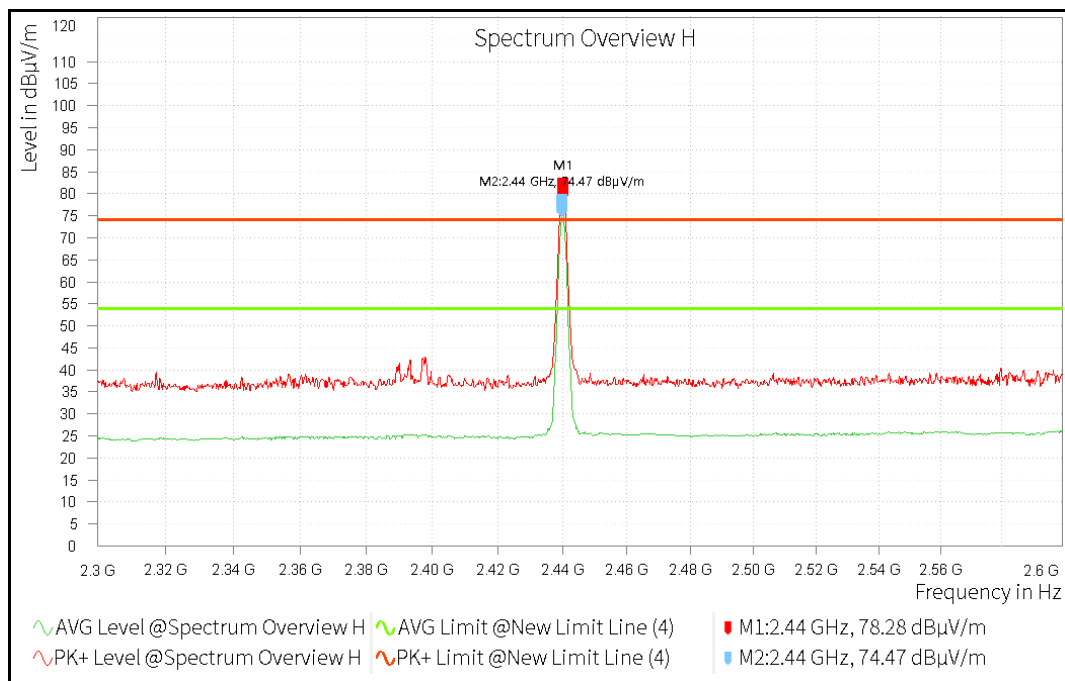
**Polarization: Horizontal**

Report Reference. No.: 80260100007001

**Channel Frequency: 2440MHz**

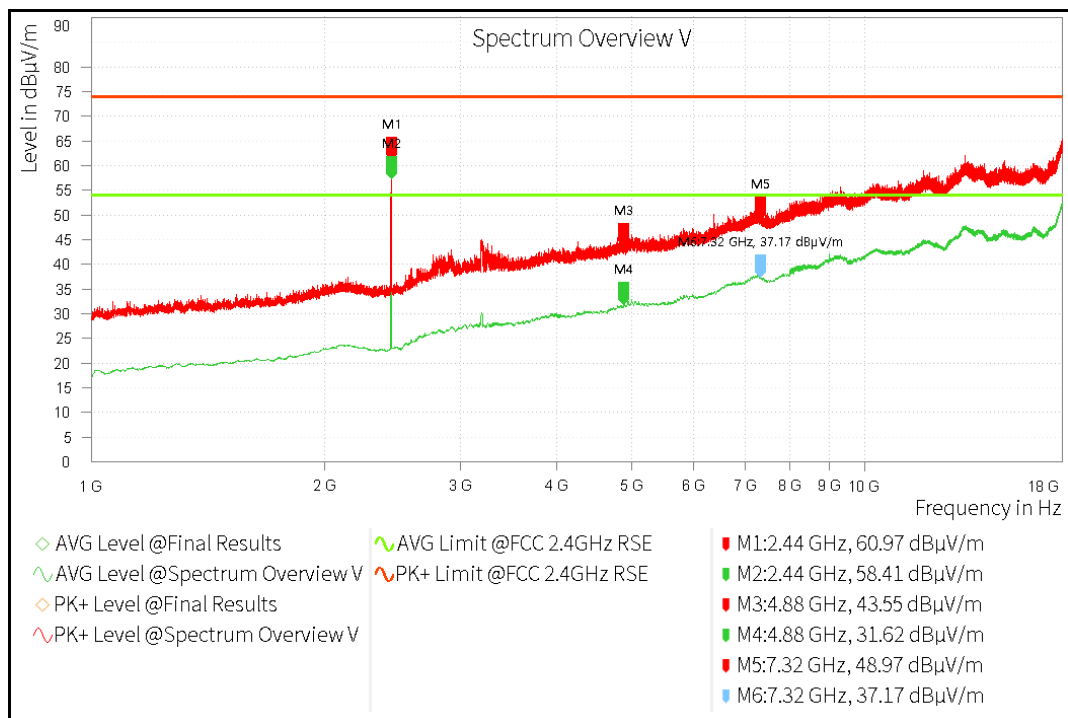


**Polarization: Vertical**



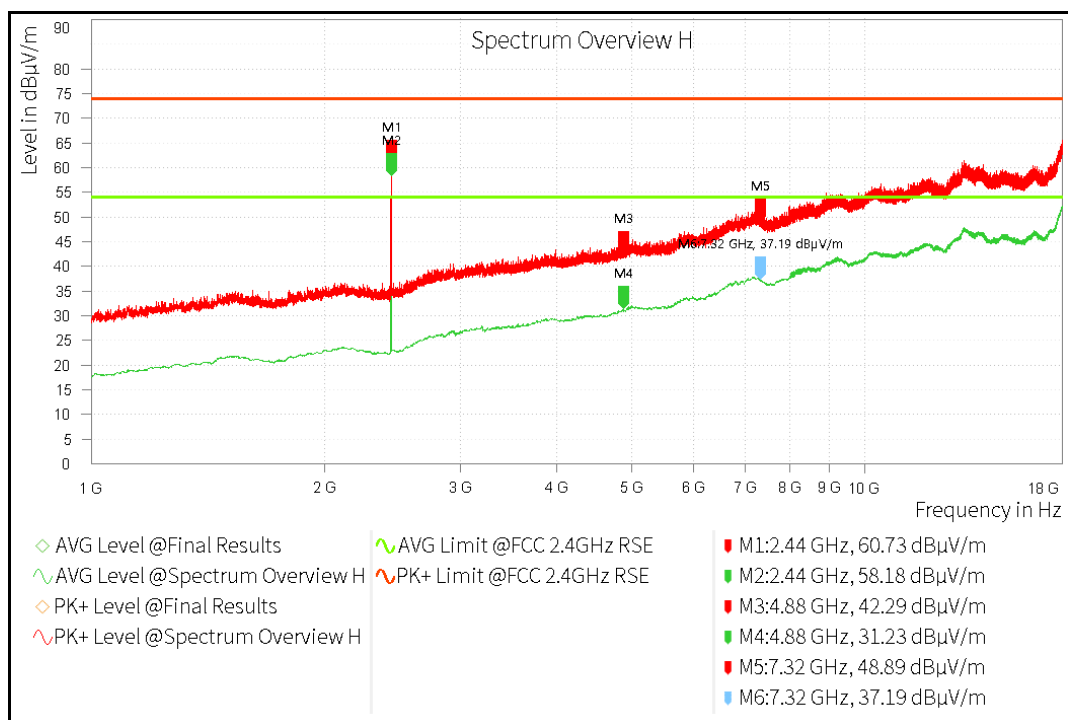
**Polarization: Horizontal**

Report Reference. No.: 80260100007001



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

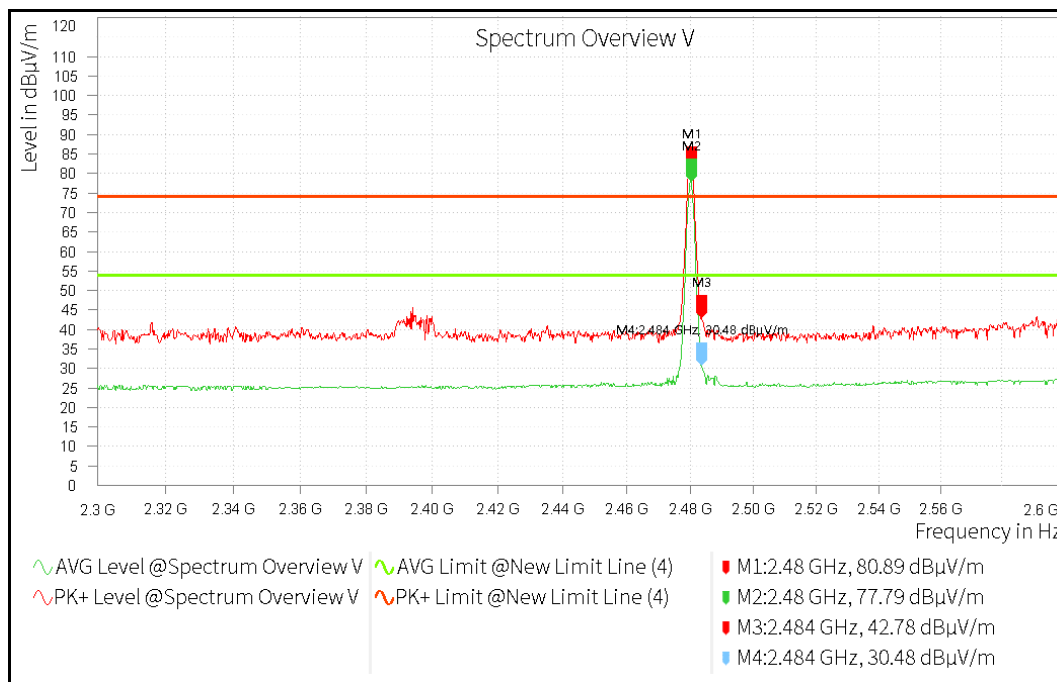


**Frequency Range: 1GHz-18GHz**

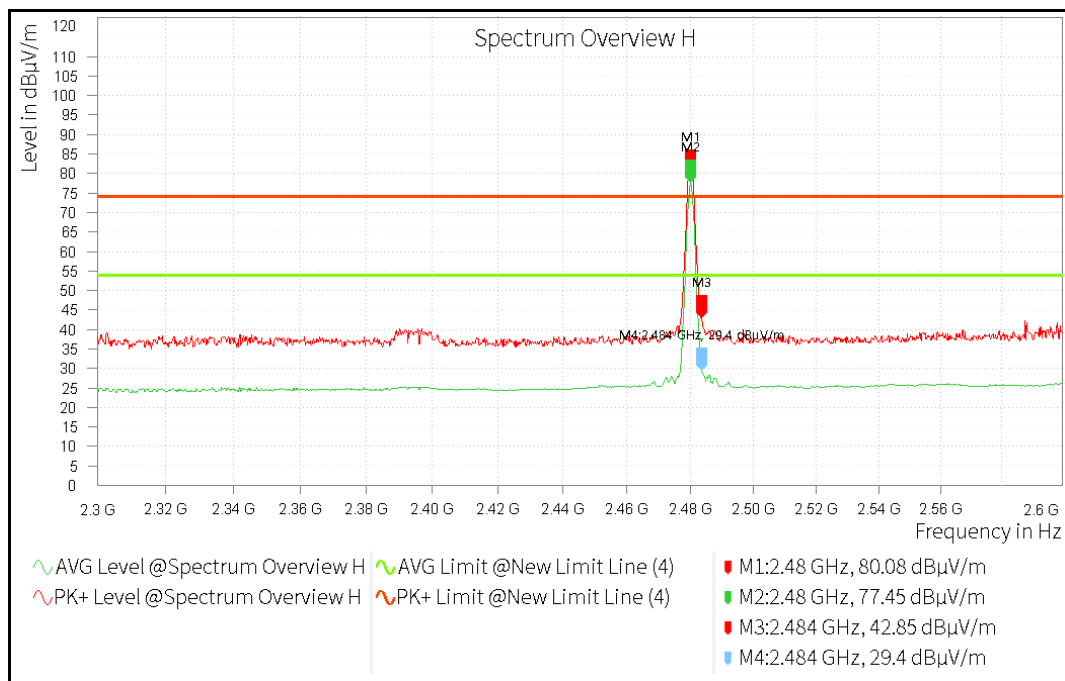
**Polarization: Horizontal**

Report Reference. No.: 80260100007001

## Channel Frequency: 2480MHz

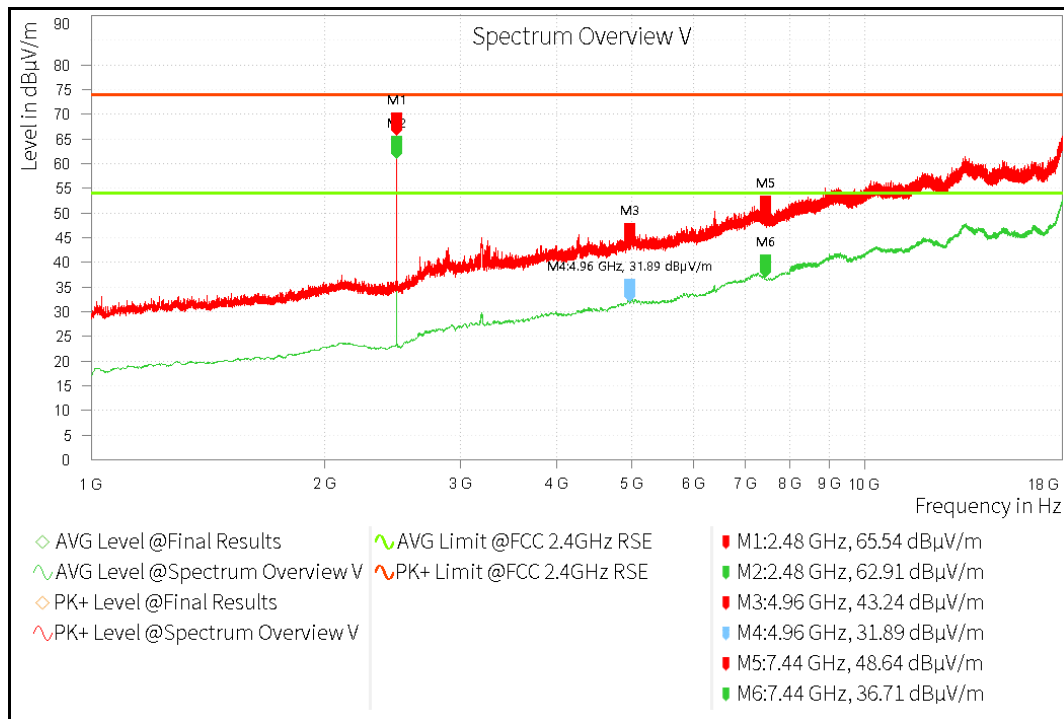


**Polarization: Vertical**



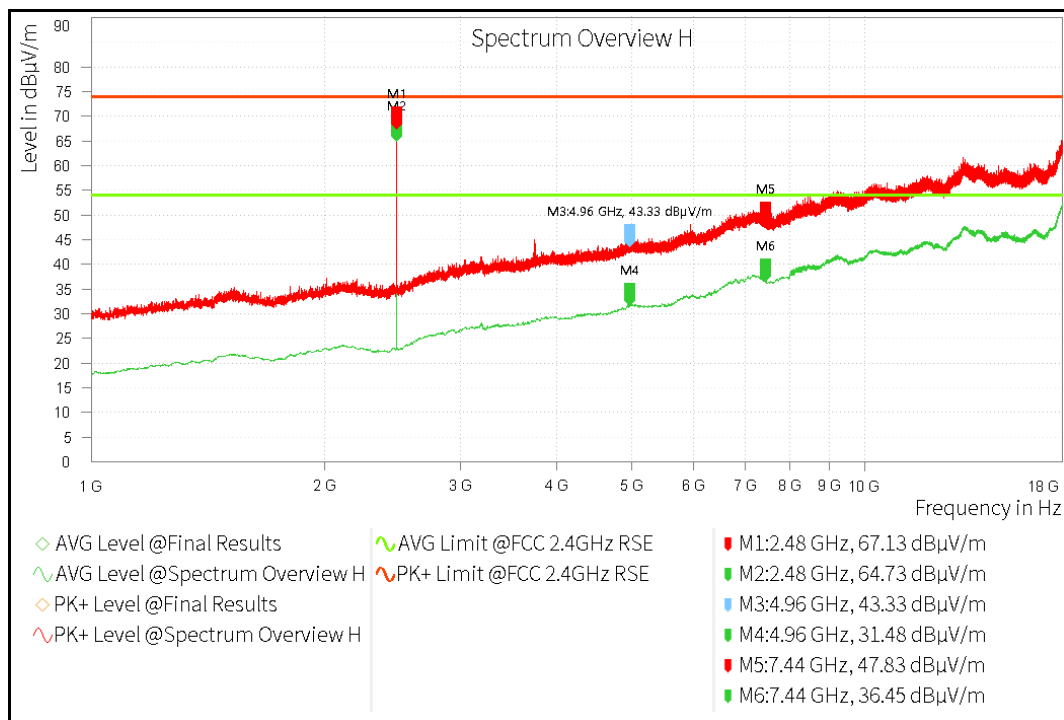
**Polarization: Horizontal**

Report Reference. No.: 80260100007001



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**



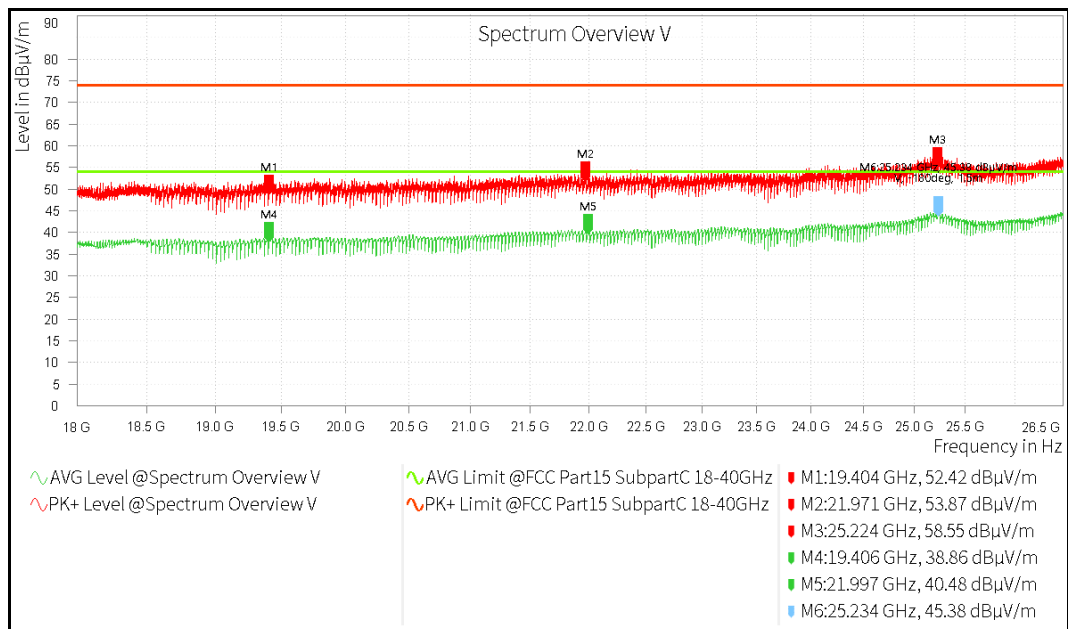
**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

Report Reference. No.: 80260100007001

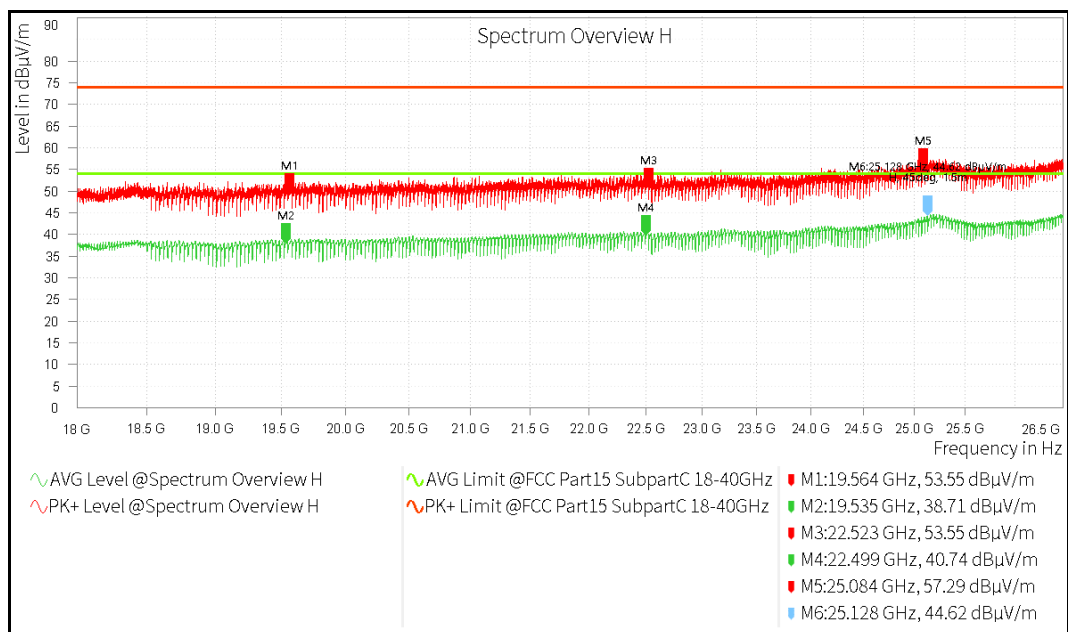
## Test Plots for above 18GHz:

Channel Frequency: 2402MHz



Frequency Range: 18GHz-26.5GHz

Polarization: Vertical



Frequency Range: 18GHz-26.5GHz

Polarization: Horizontal

Report Reference. No.: 80260100007001

## 14 TEST CONDITIONS AND RESULTS – CONDUCTED SPURIOUS EMISSION TEST ON AC POWER LINE

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Test Specification    | FCC Part 15 Section 15.207 / RSS-Gen Issue 5, Section 8.8 |
| Test Method           | ANSI C63.10-2020                                          |
| Testing Location      | Shielded Room                                             |
| Measurement Bandwidth | 9kHz                                                      |
| Frequency Range       | 150kHz – 30MHz                                            |
| Test Setup            | Refer <u>TEST METHODOLOGY</u>                             |

**Table 20: Limits of section 15.207**

| Frequency of emission (MHz) | Conducted limit (dBμV) |                |
|-----------------------------|------------------------|----------------|
|                             | Quasi-peak (dBμV)      | Average (dBμV) |
| 0.15-0.5                    | 66-56*                 | 56-46*         |
| 0.5-5                       | 56                     | 46             |
| 5-30                        | 60                     | 50             |

\* Decreases with the logarithm of the frequency

### 14.1 Laboratory Environmental Conditions

|                     |                  |
|---------------------|------------------|
| Ambient Temperature | : +15°C to +35°C |
| Relative humidity   | : 20% to 75%     |
| Power supply        | : 110V AC, 60Hz  |

### 14.2 EUT Conditions

|              |                  |
|--------------|------------------|
| Temperature  | : 0°C to +45°C   |
| Power supply | : 5V DC, 3A(max) |

Report Reference. No.: 80260100007001

## 14.3 Test result:

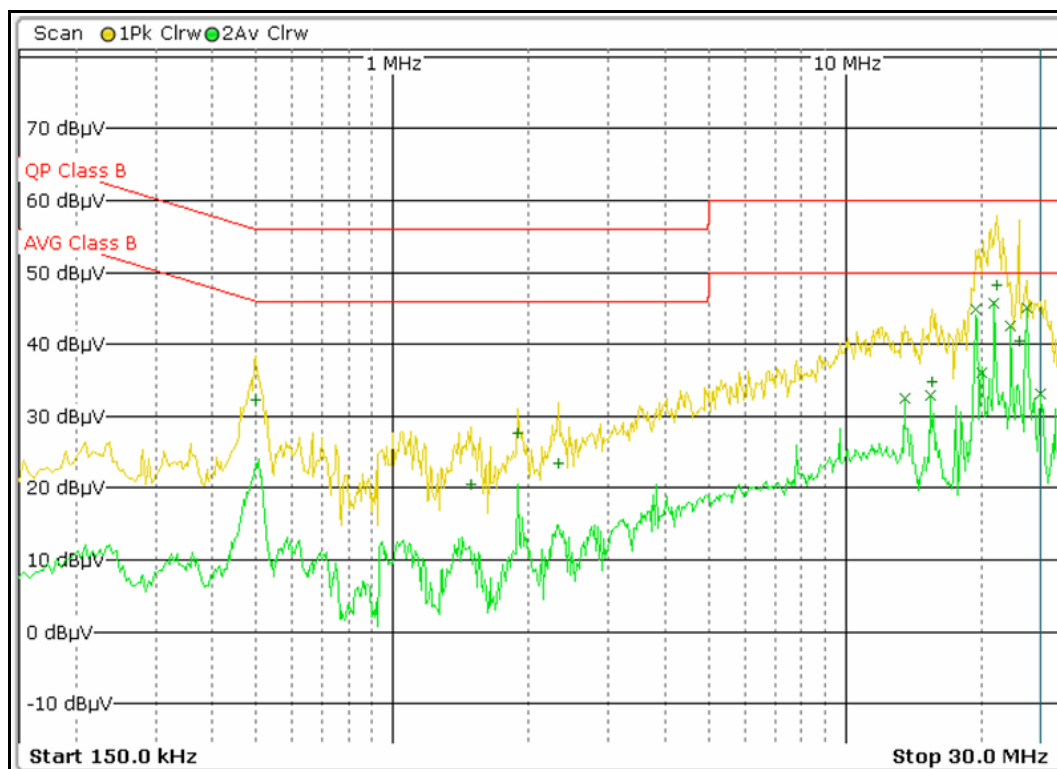
### Charging Mode – USB Charging Mode

Power: 110VAC\_ 60Hz\_LINE

**Table 21: Power - 110VAC\_ 60Hz\_LINE results**

| Trace | Frequency         | Level (dBμV) | Phase | Detector   | Delta Limit/dB |
|-------|-------------------|--------------|-------|------------|----------------|
| 2     | 21.322000000 MHz  | 45.66        |       | Average    | -4.34          |
| 2     | 25.142000000 MHz  | 45.00        |       | Average    | -5.00          |
| 2     | 19.430000000 MHz  | 44.77        |       | Average    | -5.23          |
| 2     | 23.210000000 MHz  | 42.57        |       | Average    | -7.43          |
| 1     | 21.522000000 MHz  | 48.18        |       | Quasi Peak | -11.82         |
| 2     | 20.030000000 MHz  | 35.97        |       | Average    | -14.03         |
| 2     | 27.030000000 MHz  | 33.00        |       | Average    | -17.00         |
| 2     | 15.406000000 MHz  | 32.93        |       | Average    | -17.07         |
| 2     | 13.514000000 MHz  | 32.41        |       | Average    | -17.59         |
| 1     | 24.142000000 MHz  | 40.46        |       | Quasi Peak | -19.54         |
| 1     | 498.000000000 kHz | 32.20        |       | Quasi Peak | -23.83         |
| 1     | 15.554000000 MHz  | 34.81        |       | Quasi Peak | -25.19         |
| 1     | 1.890000000 MHz   | 27.58        |       | Quasi Peak | -28.42         |
| 1     | 2.330000000 MHz   | 23.42        |       | Quasi Peak | -32.58         |
| 1     | 1.486000000 MHz   | 20.49        |       | Quasi Peak | -35.51         |

### Test Plot:



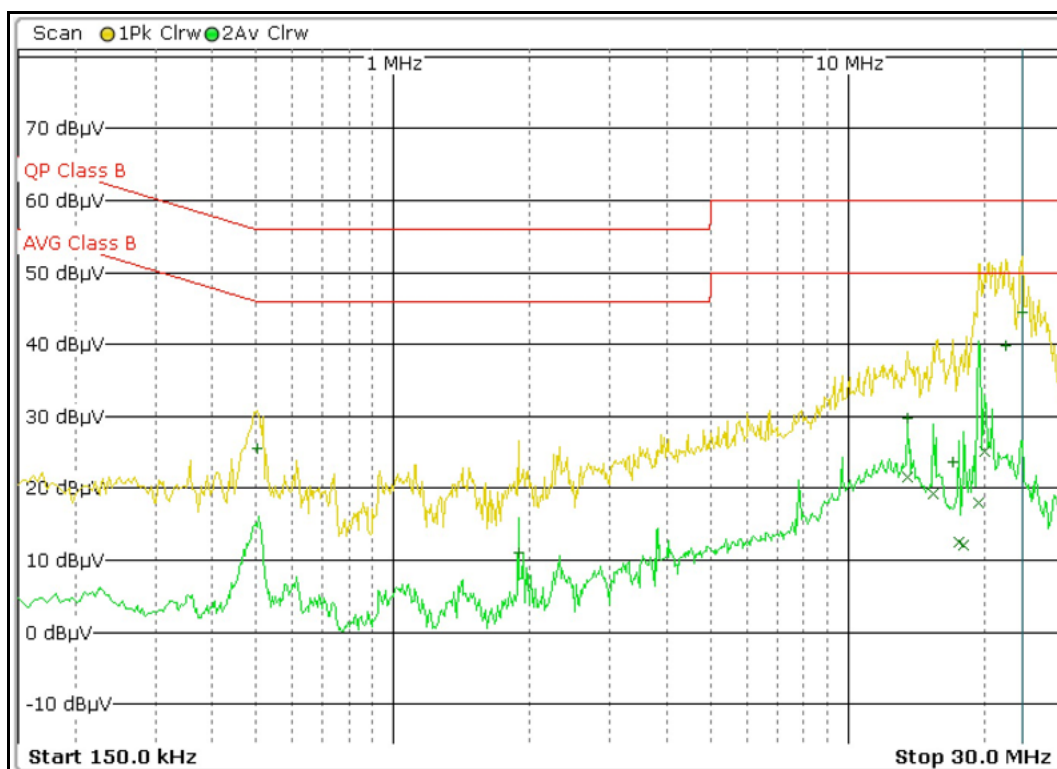
Report Reference. No.: 80260100007001

Power: 110VAC\_ 60Hz\_Neutral

**Table 22: Power - 110VAC\_ 60Hz\_Neutral results**

| Trace | Frequency         | Level (dBµV) | Phase | Detector   | Delta Limit/dB |
|-------|-------------------|--------------|-------|------------|----------------|
| 1     | 24.162000000 MHz  | 44.44        |       | Quasi Peak | -15.56         |
| 1     | 22.274000000 MHz  | 39.89        |       | Quasi Peak | -20.11         |
| 2     | 20.030000000 MHz  | 25.06        |       | Average    | -24.94         |
| 2     | 13.518000000 MHz  | 21.63        |       | Average    | -28.37         |
| 1     | 13.514000000 MHz  | 29.73        |       | Quasi Peak | -30.27         |
| 1     | 502.000000000 kHz | 25.44        |       | Quasi Peak | -30.56         |
| 2     | 15.406000000 MHz  | 19.30        |       | Average    | -30.70         |
| 2     | 19.430000000 MHz  | 18.00        |       | Average    | -32.00         |
| 1     | 16.998000000 MHz  | 23.60        |       | Quasi Peak | -36.40         |
| 2     | 17.538000000 MHz  | 12.48        |       | Average    | -37.52         |
| 2     | 18.022000000 MHz  | 12.13        |       | Average    | -37.87         |
| 1     | 1.890000000 MHz   | 11.08        |       | Quasi Peak | -44.92         |

**Test Plot:**



Report Reference. No.: 80260100007001

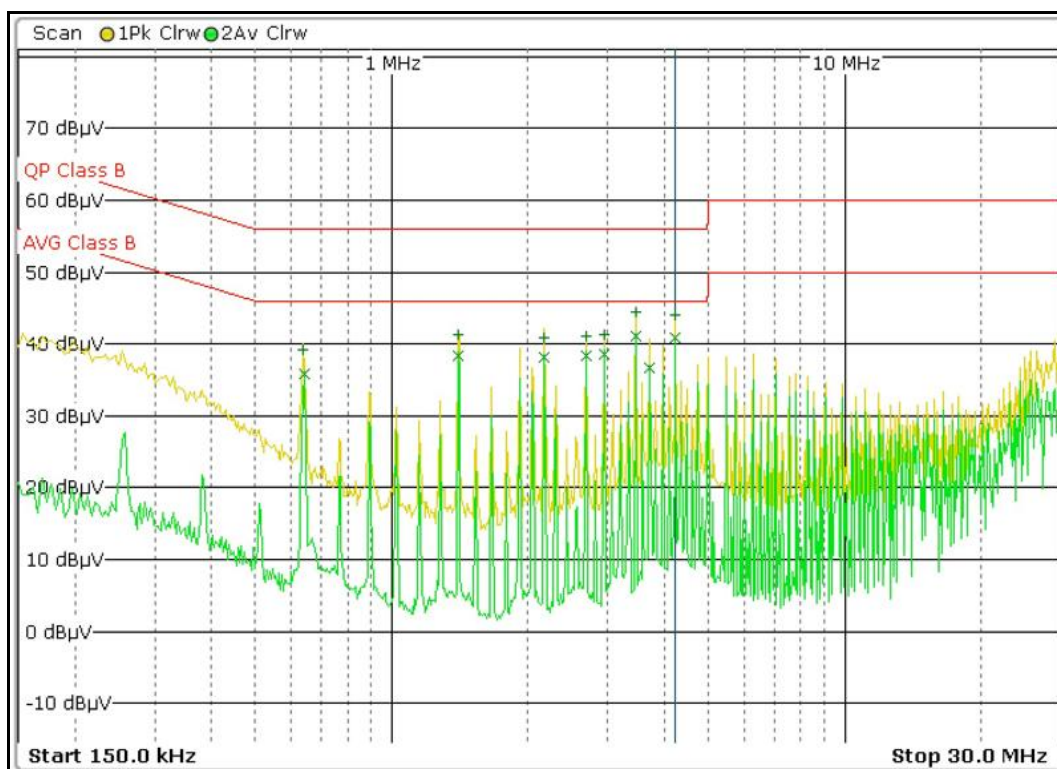
## Charging Mode – Wireless Qi Charging Mode

Power: 110VAC\_ 60Hz\_LINE

**Table 23: Power - 110VAC\_ 60Hz\_LINE results**

| Trace | Frequency         | Level (dBμV) | Phase | Detector   | Delta Limit/dB |
|-------|-------------------|--------------|-------|------------|----------------|
| 1     | 638.000000000 kHz | 39.25        |       | Quasi Peak | -16.75         |
| 2     | 642.000000000 kHz | 35.80        |       | Average    | -10.20         |
| 1     | 1.406000000 MHz   | 41.23        |       | Quasi Peak | -14.77         |
| 2     | 1.406000000 MHz   | 38.31        |       | Average    | -7.69          |
| 1     | 2.174000000 MHz   | 40.91        |       | Quasi Peak | -15.09         |
| 2     | 2.174000000 MHz   | 38.15        |       | Average    | -7.85          |
| 1     | 2.686000000 MHz   | 41.04        |       | Quasi Peak | -14.96         |
| 2     | 2.686000000 MHz   | 38.38        |       | Average    | -7.62          |
| 1     | 2.942000000 MHz   | 41.24        |       | Quasi Peak | -14.76         |
| 2     | 2.942000000 MHz   | 38.62        |       | Average    | -7.38          |
| 1     | 3.454000000 MHz   | 44.50        |       | Quasi Peak | -11.50         |
| 2     | 3.454000000 MHz   | 41.04        |       | Average    | -4.96          |
| 2     | 3.710000000 MHz   | 36.58        |       | Average    | -9.42          |
| 1     | 4.222000000 MHz   | 44.10        |       | Quasi Peak | -11.90         |
| 2     | 4.222000000 MHz   | 40.84        |       | Average    | -5.16          |

## Test Plot:



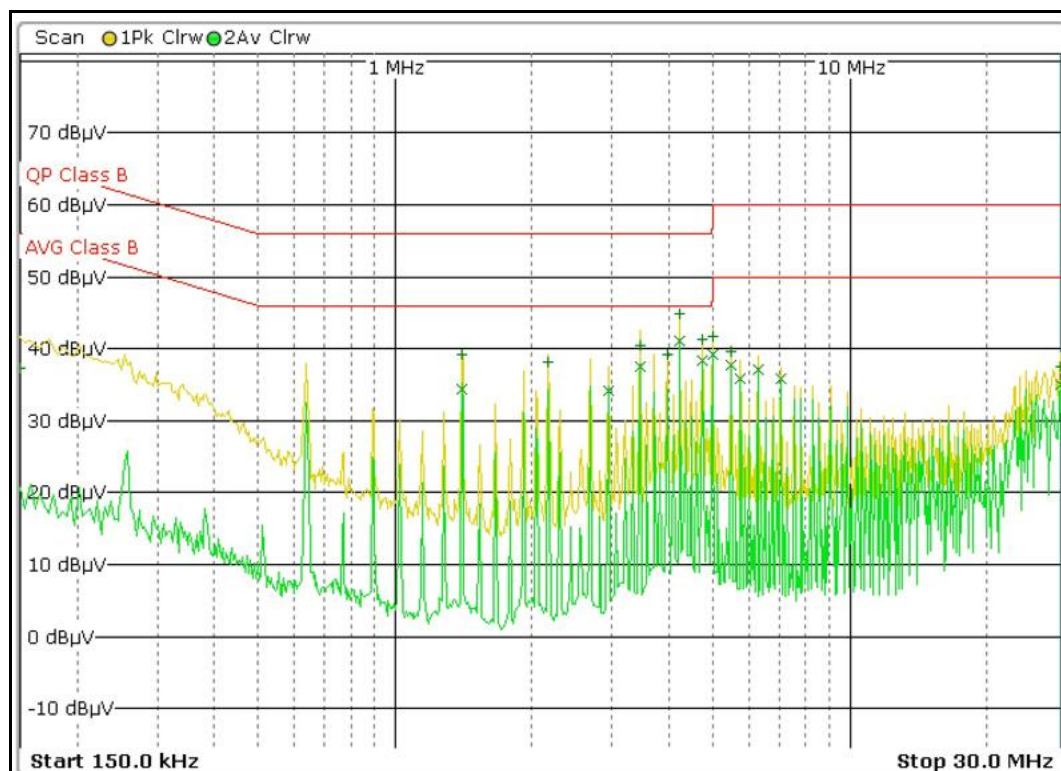
Report Reference. No.: 80260100007001

Power: 110VAC\_ 60Hz\_Neutral

**Table 24: Power - 110VAC\_ 60Hz\_Neutral results**

| Trace | Frequency        | Level (dBµV) | Phase | Detector   | Delta Limit/dB |
|-------|------------------|--------------|-------|------------|----------------|
| 1     | 150.00000000 kHz | 37.24        |       | Quasi Peak | -28.76         |
| 1     | 1.406000000 MHz  | 39.15        |       | Quasi Peak | -16.85         |
| 2     | 1.406000000 MHz  | 34.42        |       | Average    | -11.58         |
| 1     | 2.174000000 MHz  | 38.16        |       | Quasi Peak | -17.84         |
| 2     | 2.942000000 MHz  | 34.24        |       | Average    | -11.76         |
| 1     | 3.454000000 MHz  | 40.44        |       | Quasi Peak | -15.56         |
| 2     | 3.454000000 MHz  | 37.57        |       | Average    | -8.43          |
| 1     | 3.966000000 MHz  | 39.09        |       | Quasi Peak | -16.91         |
| 1     | 4.222000000 MHz  | 44.94        |       | Quasi Peak | -11.06         |
| 2     | 4.222000000 MHz  | 41.07        |       | Average    | -4.93          |
| 1     | 4.734000000 MHz  | 41.28        |       | Quasi Peak | -14.72         |
| 2     | 4.734000000 MHz  | 38.37        |       | Average    | -7.63          |
| 1     | 4.990000000 MHz  | 41.70        |       | Quasi Peak | -14.30         |
| 2     | 4.990000000 MHz  | 39.13        |       | Average    | -6.87          |
| 1     | 5.502000000 MHz  | 39.68        |       | Quasi Peak | -20.32         |
| 2     | 5.502000000 MHz  | 37.78        |       | Average    | -12.22         |
| 2     | 5.758000000 MHz  | 35.76        |       | Average    | -14.24         |
| 2     | 6.270000000 MHz  | 37.12        |       | Average    | -12.88         |
| 2     | 7.038000000 MHz  | 35.86        |       | Average    | -14.14         |
| 1     | 29.042000000 MHz | 37.50        |       | Quasi Peak | -22.50         |
| 2     | 29.042000000 MHz | 34.98        |       | Average    | -15.02         |

**Test Plot:**



Report Reference. No.: 80260100007001

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-----End of Report-----