

# FCC Radio Test Report

**FCC ID** : LDKC11312378  
**Contains FCC ID** : RI7LM960  
**Equipment** : C1131  
**Brand Name** : Cisco  
**Model Name** : C1131X-8PLTEPWB, C1131-8PLTEPWB,  
C1131-8PWB, C1131X-8PWB  
**Applicant** : Cisco Systems Inc  
125 West Tasman Drive , San Jose, CA 95134, USA.  
**Manufacturer** : Cisco Systems, Inc.  
170 West Tasman Drive, San Jose, CA 95134, USA.  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Jul. 23, 2021, and testing was started from Jul. 23, 2021 and completed on Sep. 02, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**

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## History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FR172003AC | 01      | Initial issue of report | Nov. 05, 2021 |
|            |         |                         |               |
|            |         |                         |               |
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|            |         |                         |               |

## Summary of Test Result

| Report Clause | Ref. Std. Clause | Test Items                                  | Result (PASS/FAIL) | Remark |
|---------------|------------------|---------------------------------------------|--------------------|--------|
| 1.1.2         | 15.203           | Antenna Requirement                         | PASS               | -      |
| 3.1           | 15.207           | AC Power-line Conducted Emissions           | PASS               | -      |
| 3.2           | 15.247(a)        | DTS Bandwidth                               | PASS               | -      |
| 3.3           | 15.247(b)        | Maximum Conducted Output Power              | PASS               | -      |
| 3.4           | 15.247(e)        | Power Spectral Density                      | PASS               | -      |
| 3.5           | 15.247(d)        | Emissions in Non-restricted Frequency Bands | PASS               | -      |
| 3.6           | 15.247(d)        | Emissions in Restricted Frequency Bands     | PASS               | -      |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and explanations:**

The EUT supports beamforming and CDD modes, and the CDD mode is the worse case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluated the output power.

**Reviewed by:** Ben Tseng

**Report Producer:** Jenny Yang

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11                 | Ch. Frequency (MHz) | Channel Number |
|-----------------------|----------------------------------|---------------------|----------------|
| 2400-2483.5           | b, g, n (HT20), VHT20, ax(HEW20) | 2412-2462           | 1-11 [11]      |

#### Non-Beamforming\_2T1S

| Band          | Mode           | BWch (MHz) | Nant |
|---------------|----------------|------------|------|
| 2.4-2.4835GHz | 802.11b        | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11g        | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11ax HEW20 | 20         | 2TX  |

#### Non-Beamforming\_2T2S

| Band          | Mode           | BWch (MHz) | Nant |
|---------------|----------------|------------|------|
| 2.4-2.4835GHz | 802.11ax HEW20 | 20         | 2TX  |

#### Beamforming\_2T1S

| Band          | Mode              | BWch (MHz) | Nant |
|---------------|-------------------|------------|------|
| 2.4-2.4835GHz | 802.11ax HEW20-BF | 20         | 2TX  |

**Note:**

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

| Ant. | Brand  | Model Name    | Antenna Type | Connector |
|------|--------|---------------|--------------|-----------|
| 1    | M.gear | C107-511917-A | PIFA         | I-PEX     |
| 2    | M.gear | C107-511917-A | PIFA         | I-PEX     |

| Ant. | Port | Gain (dBi) |    |
|------|------|------------|----|
|      |      | 2.4G       | 5G |
| 1    | 1    | 2          | 4  |
| 2    | 2    | 2          | 4  |

Note 1: The EUT has two antennas.

**For 2.4GHz function:**

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

**For 5GHz function:**

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

**1.1.3 EUT Information**

| Operational Condition                                                                                  |                                                         |                                              |  |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|--|
| EUT Power Type                                                                                         | From Power Adapter                                      |                                              |  |
| EUT Function                                                                                           | <input checked="" type="checkbox"/> Point-to-multipoint | <input type="checkbox"/> Point-to-point      |  |
| Beamforming Function                                                                                   | <input checked="" type="checkbox"/> With beamforming    | <input type="checkbox"/> Without beamforming |  |
| Resource Unit (802.11ax)                                                                               | <input checked="" type="checkbox"/> Full RU             | <input type="checkbox"/> Partial RU          |  |
| Type of EUT                                                                                            |                                                         |                                              |  |
| <input checked="" type="checkbox"/> Stand-alone                                                        |                                                         |                                              |  |
| <input type="checkbox"/> Combined (EUT where the radio part is fully integrated within another device) |                                                         |                                              |  |
|                                                                                                        | Combined Equipment - Brand Name / Model No.:            | ...                                          |  |
| <input type="checkbox"/> Plug-in radio (EUT intended for a variety of host systems)                    |                                                         |                                              |  |
|                                                                                                        | Host System - Brand Name / Model No.:                   | ...                                          |  |
| <input type="checkbox"/> Other:                                                                        |                                                         |                                              |  |

**1.1.4 Mode Test Duty Cycle****Non-Beamforming\_2T1S**

| Mode                           | DC    | DCF(dB) | T(s)   | VBW(Hz) $\geq 1/T$ |
|--------------------------------|-------|---------|--------|--------------------|
| 802.11b_Nss1,(1Mbps)_2TX       | 0.908 | 0.42    | 1.442m | 1k                 |
| 802.11g_Nss1,(6Mbps)_2TX       | 0.99  | 0.04    | 2.385m | 10                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 0.984 | 0.07    | 1.711m | 10                 |

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

**Non-Beamforming\_2T2S**

| Mode                           | DC    | DCF(dB) | T(s)     | VBW(Hz) $\geq 1/T$ |
|--------------------------------|-------|---------|----------|--------------------|
| 802.11ax HEW20_Nss2,(MCS0)_2TX | 0.972 | 0.12    | 893.125u | 3k                 |

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

**Beamforming\_2T1S**

| Mode                              | DC    | DCF(dB) | T(s)   | VBW(Hz) $\geq 1/T$ |
|-----------------------------------|-------|---------|--------|--------------------|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 0.984 | 0.07    | 1.711m | 10                 |

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

**1.1.5 Table for Multiple Listing**

| Model           | Description          | Pluggable LTE module | DDR4 |
|-----------------|----------------------|----------------------|------|
| C1131X-8PLTEPWB | 8-Port Pluggable 8GB | Yes                  | 8GB  |
| C1131-8PLTEPWB  | 8-Port Pluggable 4GB | Yes                  | 4GB  |
| C1131X-8PWB     | 8-Port 8GB           | No                   | 8GB  |
| C1131-8PWB      | 8-Port 4GB           | No                   | 4GB  |

From the above models, Model: C1131X-8PLTEPWB was selected as representative model for the test and its data was recorded in this report.

## 1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Test Lab. : Sporton International Inc. Hsinhua Laboratory  |                                                                                         |               |                      |                         |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|----------------------|-------------------------|
| <input checked="" type="checkbox"/> Hsinhua<br>(TAF: 3785) | ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)          |               |                      |                         |
|                                                            | TEL: 886-3-327-3456                                                                     |               | FAX: 886-3-327-0973  |                         |
| Test site Designation No. TW3785 with FCC.                 |                                                                                         |               |                      |                         |
| Test Condition                                             | Test Site No.                                                                           | Test Engineer | Test Environment     | Test Date               |
| AC Conduction                                              | CO04-HY                                                                                 | Billy Wang    | 22.8~23.4°C / 58~60% | 06/Aug/2021~07/Aug/2021 |
| RF Conducted                                               | TH01-HY                                                                                 | Barry Hsiao   | 25.3~26.9°C / 50~60% | 25/Jul/2021~05/Aug/2021 |
| Radiated                                                   | 03CH02-HY                                                                               | Tony Chang    | 21.1~22.7°C / 57~60% | 23/Jul/2021~27/Jul/2021 |
| Radiated                                                   | 03CH03-HY                                                                               | Daniel Lin    | 22.6~23.5°C / 58~66% | 02/Sep/2021             |
| <input type="checkbox"/> Wen 33rd.St.<br>(TAF: 3785)       | ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) |               |                      |                         |
|                                                            | TEL: 886-3-318-0787                                                                     |               | FAX: 886-3-318-0287  |                         |
| Test site Designation No. TW0008 with FCC.                 |                                                                                         |               |                      |                         |

## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 0.9 dB      | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 2.4 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.7 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.6 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.0 dB      | Confidence levels of 95% |
| Temperature                          | 0.41 °C     | Confidence levels of 95% |
| Humidity                             | 3.4 %       | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

|               |       |
|---------------|-------|
| Test Software | Putty |
|---------------|-------|

#### Non-Beamforming\_2T1S

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11b_Nss1,(1Mbps)_2TX       | -             |
| 2412MHz                        | 17            |
| 2437MHz                        | 17            |
| 2462MHz                        | 17            |
| 802.11g_Nss1,(6Mbps)_2TX       | -             |
| 2412MHz                        | 16            |
| 2437MHz                        | 17            |
| 2462MHz                        | 14            |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -             |
| 2412MHz                        | 15            |
| 2437MHz                        | 17            |
| 2462MHz                        | 13            |

#### Non-Beamforming\_2T2S

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11ax HEW20_Nss2,(MCS0)_2TX | -             |
| 2412MHz                        | 16            |
| 2462MHz                        | 14            |

#### Beamforming\_2T1S

| Mode                              | Power Setting |
|-----------------------------------|---------------|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | -             |
| 2412MHz                           | 15            |
| 2437MHz                           | 17            |
| 2462MHz                           | 13            |

## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                                                       |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral<br>Test Voltage: 120Vac / 60Hz |
| <b>Operating Mode</b>                               | CTX                                                                                     |
| 1                                                   | Adapter mode                                                                            |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | DTS Bandwidth<br>Maximum Conducted Output Power<br>Power Spectral Density<br>Emissions in Non-restricted Frequency Bands<br>Emissions in Restricted Frequency Bands |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains                                                                                                                            |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                     |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Emissions in Restricted Frequency Bands                                                                                                                                                                                                             |                                                                                     |                                                                                       |
| <b>Test Condition</b>                               | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |                                                                                     |                                                                                       |
| <b>Operating Mode &lt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                     |                                                                                       |
| 1                                                   | Adapter mode                                                                                                                                                                                                                                        |                                                                                     |                                                                                       |
| <b>Operating Mode &gt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                     |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                                                                      | <b>Y Plane</b>                                                                      | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                                                                  |  |  |
| <b>Worst Planes of EUT</b>                          |                                                                                                                                                                                                                                                     |                                                                                     | V                                                                                     |

| The Worst Case Mode for Following Conformance Tests    |                                    |
|--------------------------------------------------------|------------------------------------|
| <b>Tests Item</b>                                      | Simultaneous Transmission Analysis |
| <b>Test Condition</b>                                  | Radiated measurement               |
| <b>Operating Mode</b>                                  | Normal Link                        |
| 1                                                      | 2.4GHz WLAN+5GHz WLAN              |
| Refer to Appendix G for Radiated Emission Co-location. |                                    |

| The Worst Case Mode for Following Conformance Tests                                |                                    |
|------------------------------------------------------------------------------------|------------------------------------|
| Tests Item                                                                         | Simultaneous Transmission Analysis |
| Operating Mode                                                                     | CTX                                |
| 1                                                                                  | 2.4GHz WLAN+5GHz WLAN              |
| 2                                                                                  | 2.4GHz WLAN+5GHz WLAN+ LTE         |
| Refer to Sporton Test Report No.: FA172003 for Co-location RF Exposure Evaluation. |                                    |

## 2.3 Accessories

| Accessories |              |                                                        |            |             |
|-------------|--------------|--------------------------------------------------------|------------|-------------|
| AC Adapter  | Brand Name   | DELTA                                                  | Model Name | ADP-150BR B |
|             | Manufacturer | -                                                      | SN         | DAB2502X0QP |
|             | Power Rating | I/P: 100 - 240 Vac, 2.5 A, O/P: 12 - 53.5Vdc, 6-1.55 A |            |             |

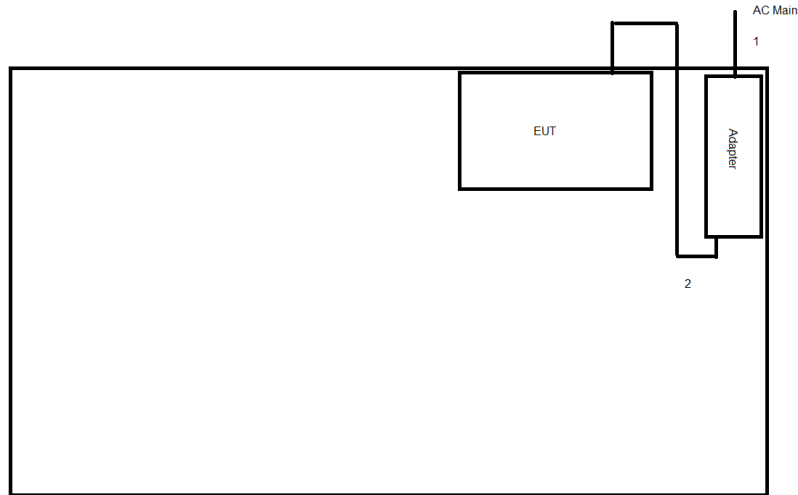
Reminder: Regarding to more detail and other information, please refer to user manual.

## 2.4 Support Equipment

| Support Equipment – Conducted |                |            |            |        |        |
|-------------------------------|----------------|------------|------------|--------|--------|
| No.                           | Equipment      | Brand Name | Model Name | FCC ID | Remark |
| 1                             | Notebook       | DELL       | E5410      | -      | -      |
| 2                             | Adapter for NB | DELL       | HA65NM130  | -      | -      |

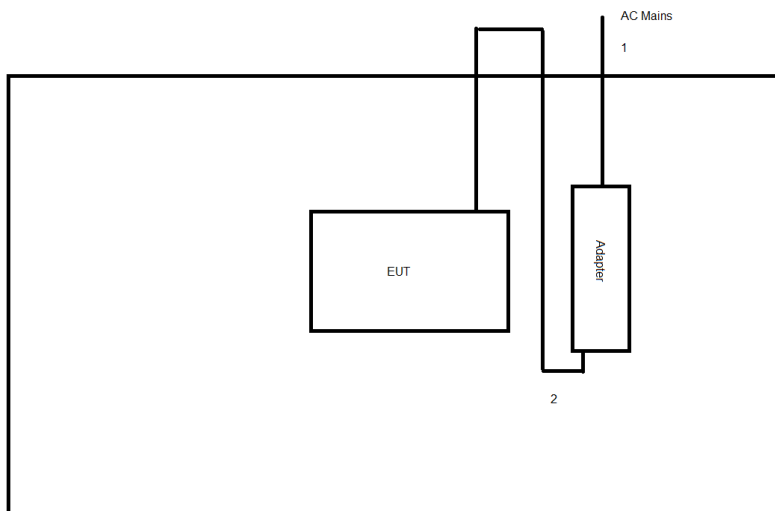
## 2.5 Test Setup Diagram

**Test Setup Diagram – AC Line Conducted Emission Test**



| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power cable | No       | 1.5       | -      |
| 2    | DC Power cable | No       | 1.5       | -      |

**Test Setup Diagram - Radiated Test**



| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power cable | No       | 1.5       | -      |
| 2    | DC Power cable | No       | 1.5       | -      |

### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit                  |            |           |
|----------------------------------------------------------|------------|-----------|
| Frequency Emission (MHz)                                 | Quasi-Peak | Average   |
| 0.15-0.5                                                 | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                                    | 56         | 46        |
| 5-30                                                     | 60         | 50        |
| Note 1: * Decreases with the logarithm of the frequency. |            |           |

##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

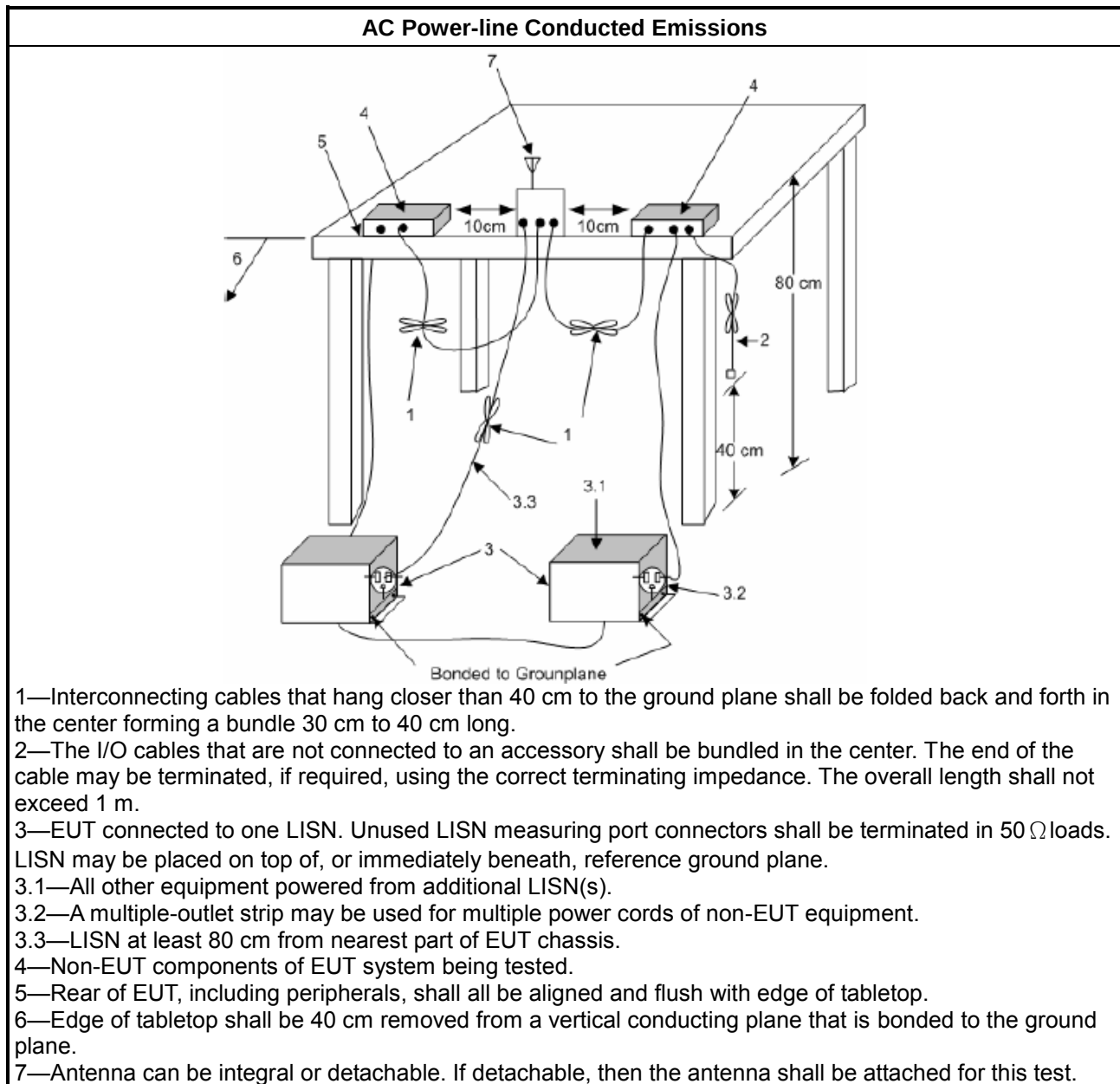
| Test Method                                                                                                      |
|------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

##### 3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

### 3.1.5 Test Setup



### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

## 3.2 DTS Bandwidth

### 3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit                                 |                                |
|-----------------------------------------------------|--------------------------------|
| <b>Systems using digital modulation techniques:</b> |                                |
| ▪                                                   | 6 dB bandwidth $\geq$ 500 kHz. |

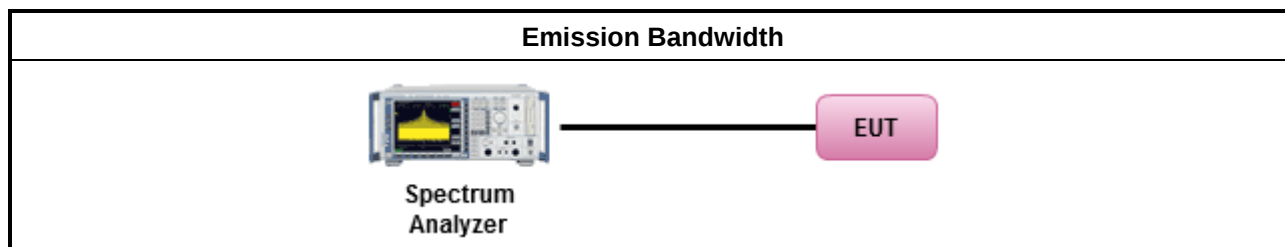
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                         |                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------|
| ▪                                   | For the emission bandwidth shall be measured using one of the options below:     |
| <input checked="" type="checkbox"/> | Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement. |
| <input type="checkbox"/>            | Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.                     |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.               |

### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit                                                                                                                              |   |                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   | ▪ | If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)                                           |
|                                                                                                                                                                   | ▪ | Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm     |
|                                                                                                                                                                   | ▪ | Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm        |
|                                                                                                                                                                   | ▪ | Smart antenna system (SAS):                                                                        |
|                                                                                                                                                                   | - | Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                         |
|                                                                                                                                                                   | - | Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                        |
|                                                                                                                                                                   | - | Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm |
| <b>e.i.r.p. Power Limit:</b>                                                                                                                                      |   |                                                                                                    |
|                                                                                                                                                                   | ▪ | 2400-2483.5 MHz Band                                                                               |
|                                                                                                                                                                   | ▪ | Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)                                    |
|                                                                                                                                                                   | ▪ | Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm               |
|                                                                                                                                                                   | ▪ | Smart antenna system (SAS)                                                                         |
|                                                                                                                                                                   | - | Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm                                  |
|                                                                                                                                                                   | - | Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm                                 |
|                                                                                                                                                                   | - | Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm           |
| $P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi. |   |                                                                                                    |

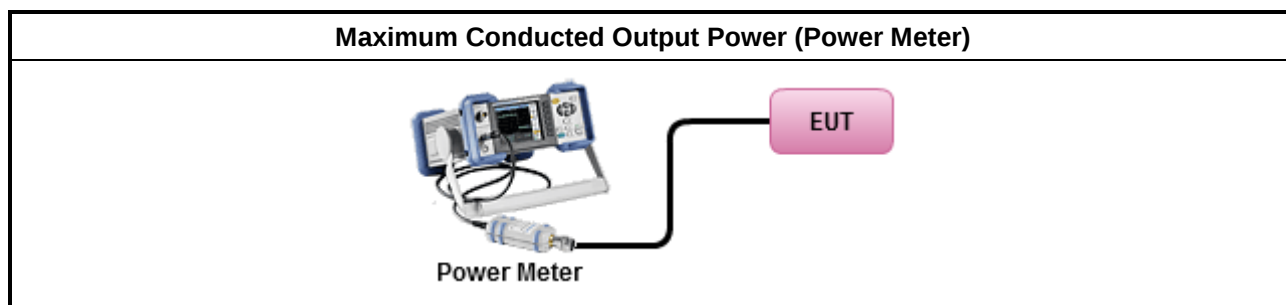
#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.3.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Maximum Peak Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                              |                                                                                             |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.             |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method. |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.             |
| <ul style="list-style-type: none"> <li>Maximum Average Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                           |                                                                                             |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.    |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                | Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.          |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>                                                                                                                                                                                                                                                                                       |                                                                                             |
| <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:<br/>Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul> |                                                                                             |
| <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:<br/> <math display="block">P_{total} = P_1 + P_2 + \dots + P_n</math> (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math display="block">EIRP_{total} = P_{total} + DG</math> </li> </ul>                              |                                                                                             |

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

| Power Spectral Density Limit |                                                |
|------------------------------|------------------------------------------------|
| ▪                            | Power Spectral Density (PSD) $\leq 8$ dBm/3kHz |

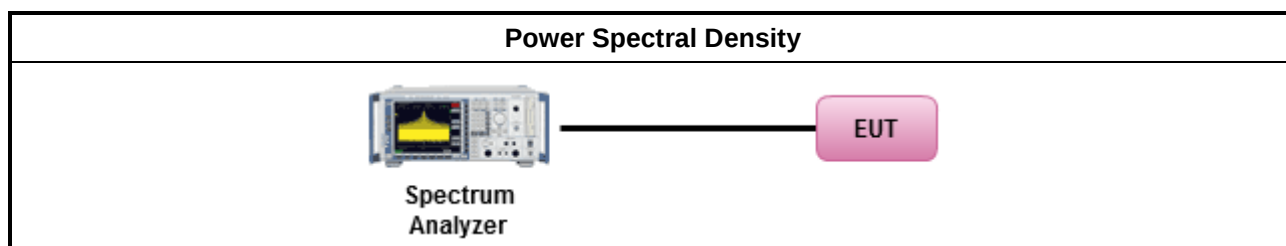
#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▪                                   | Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).                                                                                                         |
| <input checked="" type="checkbox"/> | Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ▪                                   | For conducted measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ▪                                   | If The EUT supports multiple transmit chains using options given below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ▪                                   | Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |

#### 3.4.4 Test Setup



#### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

#### 3.5.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| RF output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Limit (dB) |
| Peak output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20         |
| Average output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30         |
| <p>Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level.</p> <p>Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.</p> |            |

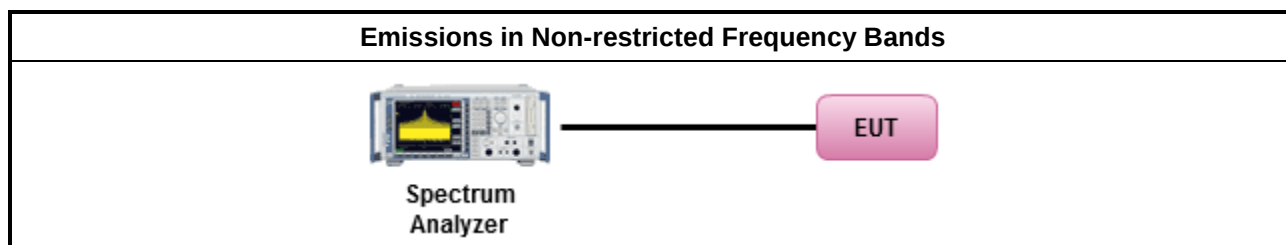
#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.5.3 Test Procedures

| Test Method                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.</li> </ul> |

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

## 3.6 Emissions in Restricted Frequency Bands

### 3.6.1 Emissions in Restricted Frequency Bands Limit

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.6.3 Test Procedures

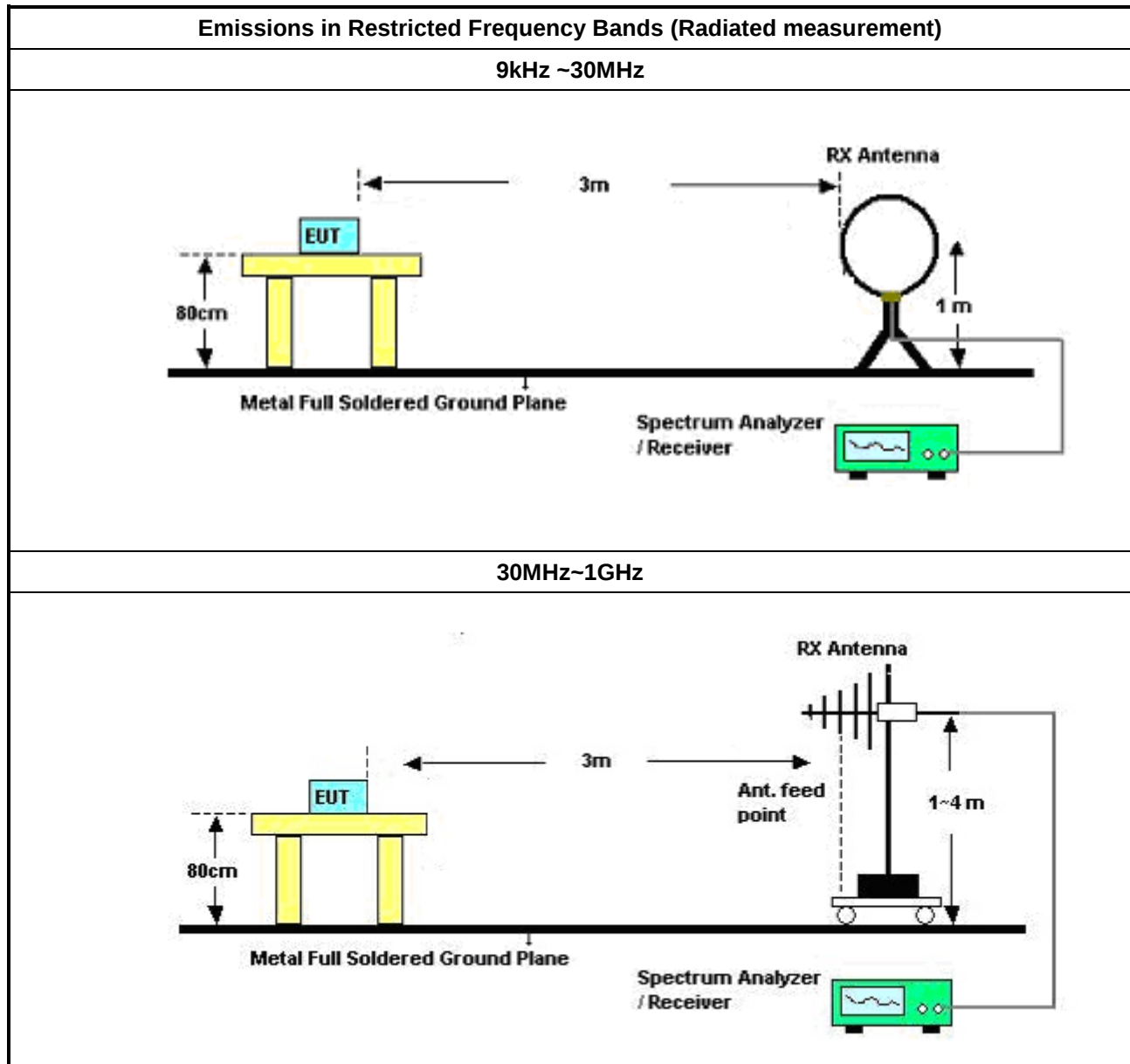
| Test Method                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>                                                                        |                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.</li> </ul>                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>                                                                                                                           |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.</li> </ul>                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.</li> </ul>                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>Use the following spectrum analyzer settings:</li> </ul>                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> </ul>                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Set RBW = 1 MHz, VBW= 3MHz for <math>f \geq 1</math> GHz for peak measurement.<br/>For average measurement, refer as 1.1.4.</li> </ul>                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.</li> </ul>                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.</li> </ul>                                                                                                                                      |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>For conducted and cabinet radiation measurement, refer as KDB 558074, clause 3 (12.7.4.2 of ANSI C63.10).</li> </ul>                                                                 |                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>For conducted unwanted emissions into restricted bands (absolute emission limits).<br/>Devices with multiple transmit chains using options given below:<br/>(1) Measure and sum the spectra across the outputs or<br/>(2) Measure and add 10 log(N) dB</li> </ul>                                                                                   |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.</li> </ul> |

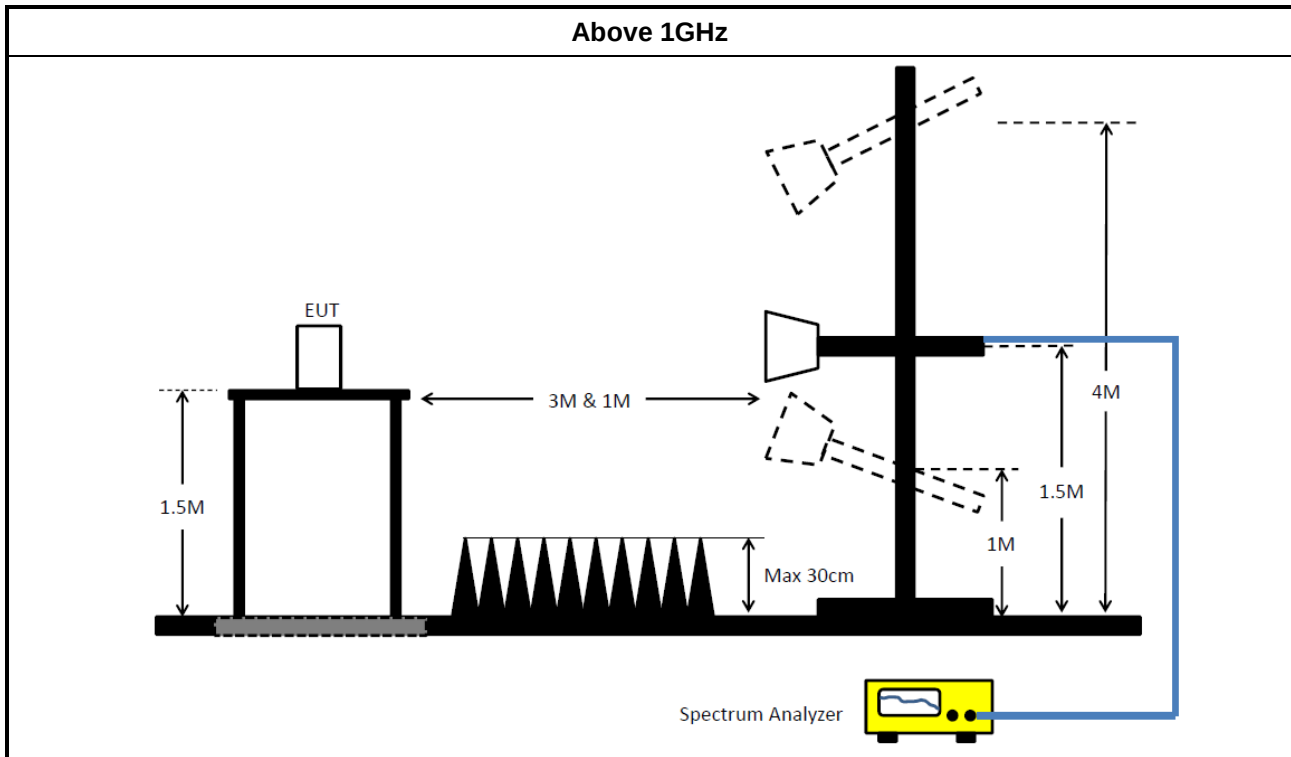
### 3.6.4 Measurement Results Calculation

The measured Level is calculated using:

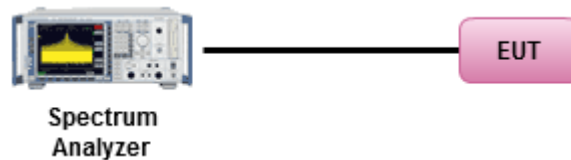
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

### 3.6.5 Test Setup





### Emissions in Restricted Frequency Bands (Conducted measurement)



### 3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

### 3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument                     | Manufacturer /Brand | Model No.   | Serial No.    | Spec.         | Calibration Date | Calibration Due Date |
|--------------------------------|---------------------|-------------|---------------|---------------|------------------|----------------------|
| EMI Test Receiver              | R&S                 | ESR         | 102052        | 9kHz ~ 3.6GHz | 19/Apr/2021      | 18/Apr/2022          |
| LISN                           | R&S                 | ENV216      | 101295        | 9kHz ~ 30MHz  | 11/Nov/2020      | 10/Nov/2021          |
| RF Cable 5m                    | TITAN               | TITAN       | CO04-cable-01 | 0.1MHz~200MHz | 03/Mar/2021      | 02/Mar/2022          |
| Impuls Begrenzer Pulse Limiter | SCHWARZBECK         | VTSD 9561-F | 9561-F041     | 9kHz ~ 30MHz  | 21/Sep/2020      | 20/Sep/2021          |

### Instrument for Conducted Test

| Instrument               | Manufacturer /Brand | Model No. | Serial No. | Spec.        | Calibration Date | Calibration Due Date |
|--------------------------|---------------------|-----------|------------|--------------|------------------|----------------------|
| Signal Analyzer          | R&S                 | FSV 40    | 101013     | 10Hz~40GHz   | 30/Mar/2021      | 29/Mar/2022          |
| SMB100A Signal Generator | R&S                 | SMB100A03 | 181147     | 100kHz~40GHz | 20/Oct/2020      | 19/Oct/2021          |
| Pulse Sensor             | Anritsu             | MA2411B   | 0917017    | 300MHz~40GHz | 23/Feb/2021      | 22/Feb/2022          |
| Power Meter              | Anritsu             | ML2495A   | 0949003    | 300MHz~40GHz | 23/Feb/2021      | 22/Feb/2022          |

**Instrument for Radiated Test (03CH02-HY)**

| Instrument                       | Manufacturer /Brand | Model No.              | Serial No.        | Spec.            | Calibration Date | Calibration Due Date |
|----------------------------------|---------------------|------------------------|-------------------|------------------|------------------|----------------------|
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA      | SAC-3M                 | 03CH02-HY         | 30MHz~1GHz<br>3m | 04/Aug/2020      | 03/Aug/2021          |
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA      | SAC-3M                 | 03CH02-HY         | 1GHz~18GHz<br>3m | 02/Aug/2020      | 01/Aug/2021          |
| Signal Analyzer                  | R&S                 | FSP40                  | 100593            | 9kHz~40GHz       | 12/Mar/2021      | 11/Mar/2022          |
| Amplifier                        | Agilent             | 8447D                  | 2944A11149        | 100kHz~1.3GHz    | 29/Jun/2021      | 28/Jun/2022          |
| Bilog Antenna & 5dB Attenuator   | SCHAFFNER / MTJ     | CBL 6112B / MTJ6102-05 | 2723 / 2          | 30MHz~1GHz       | 06/Sep/2020      | 05/Sep/2021          |
| RF Cable                         | MVE                 | 400LL                  | MVE-1-0802        | 9kHz~30MHz       | 05/May/2021      | 04/May/2022          |
| RF Cable                         | MVE                 | 400LL                  | MVE-1-0802        | 30MHz~1GHz       | 05/May/2021      | 04/May/2022          |
| Loop Antenna                     | TESEQ               | HLA 6120               | 31244             | 9kHz~30MHz       | 16/Mar/2021      | 15/Mar/2022          |
| EMI Test Receiver                | R&S                 | ESR3                   | 102052            | 9kHz~3.6GHz      | 19/Apr/2021      | 18/Apr/2022          |
| Microwave Preamplifier           | Agilent             | 8449B                  | 3008A02373        | 1GHz~26.5GHz     | 23/Oct/2020      | 22/Oct/2021          |
| Double Ridged Guide Horn Antenna | SCHWARZBEC          | BBHA 9120 D            | BBHA 9120 D 01543 | 1GHz~18GHz       | 04/Jun/2021      | 03/Jun/2022          |
| RF Cable-R03m                    | HUBER+ SUHNER       | SUCOFLEX104            | 805193/4+805192/4 | 1GHz~40GHz       | 06/Apr/2021      | 05/Apr/2022          |
| Broadband Horn Antenna           | SCHWARZBECK         | BBHA 9170              | BBHA 9170221      | 15GHz~40GHz      | 11/Mar/2021      | 10/Mar/2022          |
| Microwave Premplifier            | EMC INSTRUMENTS     | EM18G40G               | 060604            | 18GHz~40GHz      | 09/Mar/2021      | 08/Mar/2022          |

**Instrument for Radiated Test (03CH03-HY)**

| Instrument                       | Manufacturer /Brand | Model No.   | Serial No.               | Spec.            | Calibration Date | Calibration Due Date |
|----------------------------------|---------------------|-------------|--------------------------|------------------|------------------|----------------------|
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA      | SAC-3M      | 03CH03-HY                | 1GHz~18GHz<br>3m | 03/Aug/2021      | 02/Aug/2022          |
| Signal Analyzer                  | R&S                 | FSP40       | 100593                   | 9kHz~40GHz       | 12/Mar/2021      | 11/Mar/2022          |
| Microwave System Preamplifier    | KEYSIGHT            | 83017A      | MY53270196               | 1GHz~26.5GHz     | 06/Oct/2020      | 05/Oct/2021          |
| Double Ridged Guide Horn Antenna | SCHWARZBECK         | BBHA 9120 D | BBHA 9120 D 1531         | 1GHz~18GHz       | 24/Mar/2021      | 23/Mar/2022          |
| RF CABLE 5+6m                    | HUBER+ SUHNER       | SUOFLEX 104 | SN MY38596/4+SN 804300/4 | 1GHz~40GHz       | 28/Jul/2021      | 27/Jul/2022          |
| Broadband Horn Antenna           | SCHWARZBECK         | BBHA 9170   | BBHA 9170221             | 15GHz~40GHz      | 11/Mar/2021      | 10/Mar/2022          |
| Microwave Premplifier            | EMC INSTRUMENTS     | EM18G40G    | 060604                   | 18GHz ~ 40GHz    | 09/Mar/2021      | 08/Mar/2022          |



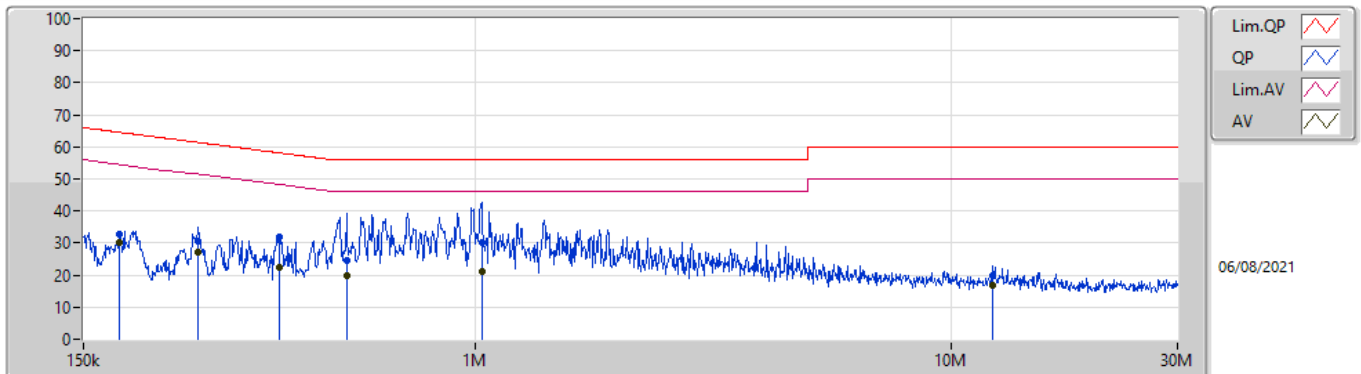
**Summary**

| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-----------------|-----------------|----------------|-----------|
| Mode 1 | Pass   | QP   | 991.146k     | 35.80           | 56.00           | -20.20         | Neutral   |

**Mode config**

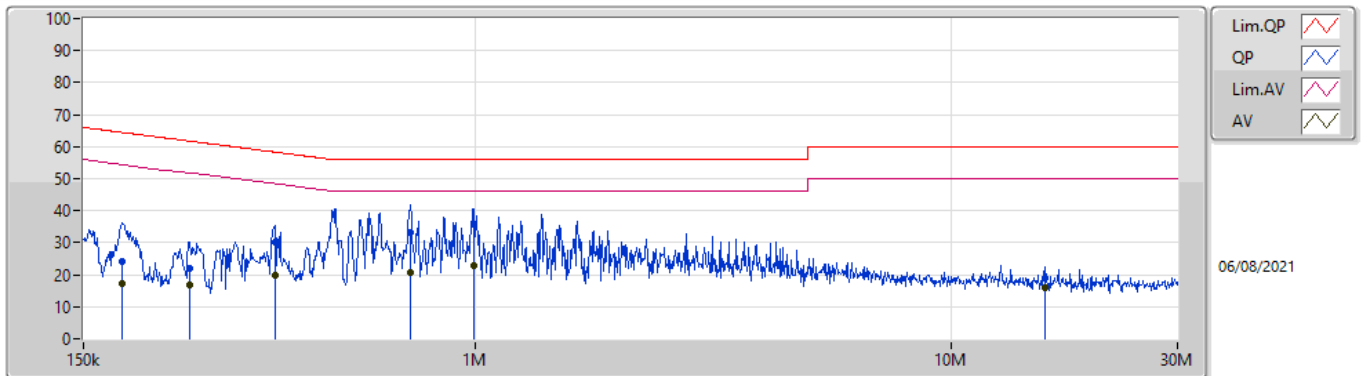
| Mode   | Result | Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Condition | Comments |
|--------|--------|------|-----------|--------------|--------------|-------------|-----------|----------|
| Mode 1 | Pass   | QP   | 178.091k  | 32.77        | 64.57        | -31.80      | Line      | -        |
| Mode 1 | Pass   | AV   | 178.091k  | 30.21        | 54.57        | -24.36      | Line      | -        |
| Mode 1 | Pass   | QP   | 261.263k  | 30.55        | 61.39        | -30.84      | Line      | -        |
| Mode 1 | Pass   | AV   | 261.263k  | 27.24        | 51.39        | -24.15      | Line      | -        |
| Mode 1 | Pass   | QP   | 387.896k  | 31.97        | 58.10        | -26.13      | Line      | -        |
| Mode 1 | Pass   | AV   | 387.896k  | 22.47        | 48.10        | -25.63      | Line      | -        |
| Mode 1 | Pass   | QP   | 535.976k  | 24.36        | 56.00        | -31.64      | Line      | -        |
| Mode 1 | Pass   | AV   | 535.976k  | 19.87        | 46.00        | -26.13      | Line      | -        |
| Mode 1 | Pass   | QP   | 1.032M    | 30.38        | 56.00        | -25.62      | Line      | -        |
| Mode 1 | Pass   | AV   | 1.032M    | 21.27        | 46.00        | -24.73      | Line      | -        |
| Mode 1 | Pass   | QP   | 12.257M   | 19.64        | 60.00        | -40.36      | Line      | -        |
| Mode 1 | Pass   | AV   | 12.257M   | 17.00        | 50.00        | -33.00      | Line      | -        |
| Mode 1 | Pass   | QP   | 180.957k  | 23.95        | 64.43        | -40.48      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 180.957k  | 17.08        | 54.43        | -37.35      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 251.038k  | 21.85        | 61.72        | -39.87      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 251.038k  | 16.68        | 51.72        | -35.04      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 378.715k  | 30.10        | 58.31        | -28.21      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 378.715k  | 19.83        | 48.31        | -28.48      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 728.856k  | 33.26        | 56.00        | -22.74      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 728.856k  | 20.61        | 46.00        | -25.39      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 991.146k  | 35.80        | 56.00        | -20.20      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 991.146k  | 22.91        | 46.00        | -23.09      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 15.825M   | 18.85        | 60.00        | -41.15      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 15.825M   | 15.96        | 50.00        | -34.04      | Neutral   | -        |

### Mode 1



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 178.091k     | 32.77           | 64.57           | -31.80         | 19.62          | Line      | -       | 13.15         | 9.68         | 0.04       | 9.90       |  |  |  |
| AV   | 178.091k     | 30.21           | 54.57           | -24.36         | 19.62          | Line      | -       | 10.59         | 9.68         | 0.04       | 9.90       |  |  |  |
| QP   | 261.263k     | 30.55           | 61.39           | -30.84         | 19.63          | Line      | -       | 10.92         | 9.68         | 0.05       | 9.90       |  |  |  |
| AV   | 261.263k     | 27.24           | 51.39           | -24.15         | 19.63          | Line      | -       | 7.61          | 9.68         | 0.05       | 9.90       |  |  |  |
| QP   | 387.896k     | 31.97           | 58.10           | -26.13         | 19.63          | Line      | -       | 12.34         | 9.67         | 0.06       | 9.90       |  |  |  |
| AV   | 387.896k     | 22.47           | 48.10           | -25.63         | 19.63          | Line      | -       | 2.84          | 9.67         | 0.06       | 9.90       |  |  |  |
| QP   | 535.976k     | 24.36           | 56.00           | -31.64         | 19.61          | Line      | -       | 4.75          | 9.67         | 0.07       | 9.87       |  |  |  |
| AV   | 535.976k     | 19.87           | 46.00           | -26.13         | 19.61          | Line      | -       | 0.26          | 9.67         | 0.07       | 9.87       |  |  |  |
| QP   | 1.032M       | 30.38           | 56.00           | -25.62         | 19.55          | Line      | -       | 10.83         | 9.67         | 0.08       | 9.80       |  |  |  |
| AV   | 1.032M       | 21.27           | 46.00           | -24.73         | 19.55          | Line      | -       | 1.72          | 9.67         | 0.08       | 9.80       |  |  |  |
| QP   | 12.257M      | 19.64           | 60.00           | -40.36         | 19.83          | Line      | -       | -0.19         | 9.71         | 0.22       | 9.90       |  |  |  |
| AV   | 12.257M      | 17.00           | 50.00           | -33.00         | 19.83          | Line      | -       | -2.83         | 9.71         | 0.22       | 9.90       |  |  |  |

## Mode 1



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 180.957k     | 23.95           | 64.43           | -40.48         | 19.62          | Neutral   | -       | 4.33          | 9.68         | 0.04       | 9.90       |  |  |  |
| AV   | 180.957k     | 17.08           | 54.43           | -37.35         | 19.62          | Neutral   | -       | -2.54         | 9.68         | 0.04       | 9.90       |  |  |  |
| QP   | 251.038k     | 21.85           | 61.72           | -39.87         | 19.63          | Neutral   | -       | 2.22          | 9.68         | 0.05       | 9.90       |  |  |  |
| AV   | 251.038k     | 16.68           | 51.72           | -35.04         | 19.63          | Neutral   | -       | -2.95         | 9.68         | 0.05       | 9.90       |  |  |  |
| QP   | 378.715k     | 30.10           | 58.31           | -28.21         | 19.63          | Neutral   | -       | 10.47         | 9.67         | 0.06       | 9.90       |  |  |  |
| AV   | 378.715k     | 19.83           | 48.31           | -28.48         | 19.63          | Neutral   | -       | 0.20          | 9.67         | 0.06       | 9.90       |  |  |  |
| QP   | 728.856k     | 33.26           | 56.00           | -22.74         | 19.57          | Neutral   | -       | 13.69         | 9.67         | 0.07       | 9.83       |  |  |  |
| AV   | 728.856k     | 20.61           | 46.00           | -25.39         | 19.57          | Neutral   | -       | 1.04          | 9.67         | 0.07       | 9.83       |  |  |  |
| QP   | 991.146k     | 35.80           | 56.00           | -20.20         | 19.55          | Neutral   | -       | 16.25         | 9.67         | 0.08       | 9.80       |  |  |  |
| AV   | 991.146k     | 22.91           | 46.00           | -23.09         | 19.55          | Neutral   | -       | 3.36          | 9.67         | 0.08       | 9.80       |  |  |  |
| QP   | 15.825M      | 18.85           | 60.00           | -41.15         | 19.90          | Neutral   | -       | -1.05         | 9.74         | 0.26       | 9.90       |  |  |  |
| AV   | 15.825M      | 15.96           | 50.00           | -34.04         | 19.90          | Neutral   | -       | -3.94         | 9.74         | 0.26       | 9.90       |  |  |  |

**Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz                  | -                | -               | -        | -                | -               |
| 802.11b_Nss1,(1Mbps)_2TX       | 7.075M           | 10.97M          | 11M0G1D  | 6.525M           | 10.17M          |
| 802.11g_Nss1,(6Mbps)_2TX       | 16.325M          | 16.942M         | 16M9D1D  | 16.075M          | 16.642M         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 19M              | 19.065M         | 19M1D1D  | 17.925M          | 18.916M         |

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_2TX       | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 7.05M               | 10.345M            | 7.075M              | 10.445M            |
| 2437MHz                        | Pass   | 500k          | 7.05M               | 10.27M             | 6.525M              | 10.97M             |
| 2462MHz                        | Pass   | 500k          | 7.025M              | 10.62M             | 7.025M              | 10.17M             |
| 802.11g_Nss1,(6Mbps)_2TX       | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 16.325M             | 16.792M            | 16.325M             | 16.892M            |
| 2437MHz                        | Pass   | 500k          | 16.3M               | 16.667M            | 16.325M             | 16.942M            |
| 2462MHz                        | Pass   | 500k          | 16.075M             | 16.917M            | 16.325M             | 16.642M            |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 18.925M             | 19.015M            | 18.95M              | 19.04M             |
| 2437MHz                        | Pass   | 500k          | 17.925M             | 18.966M            | 18.375M             | 19.065M            |
| 2462MHz                        | Pass   | 500k          | 19M                 | 19.015M            | 18.825M             | 18.916M            |

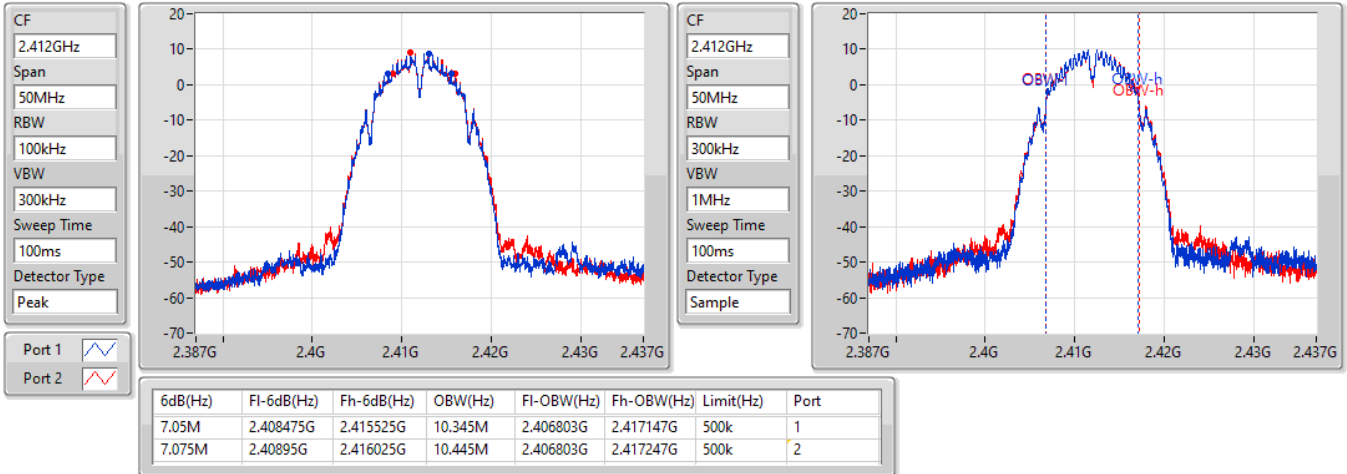
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

## 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2412MHz

27/07/2021

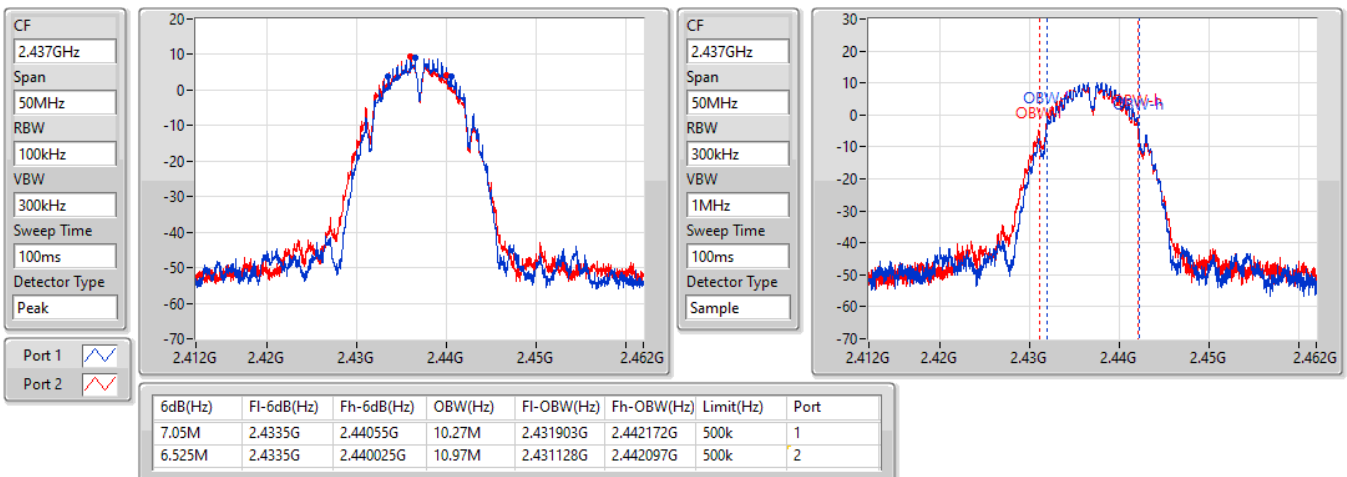


## 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2437MHz

27/07/2021

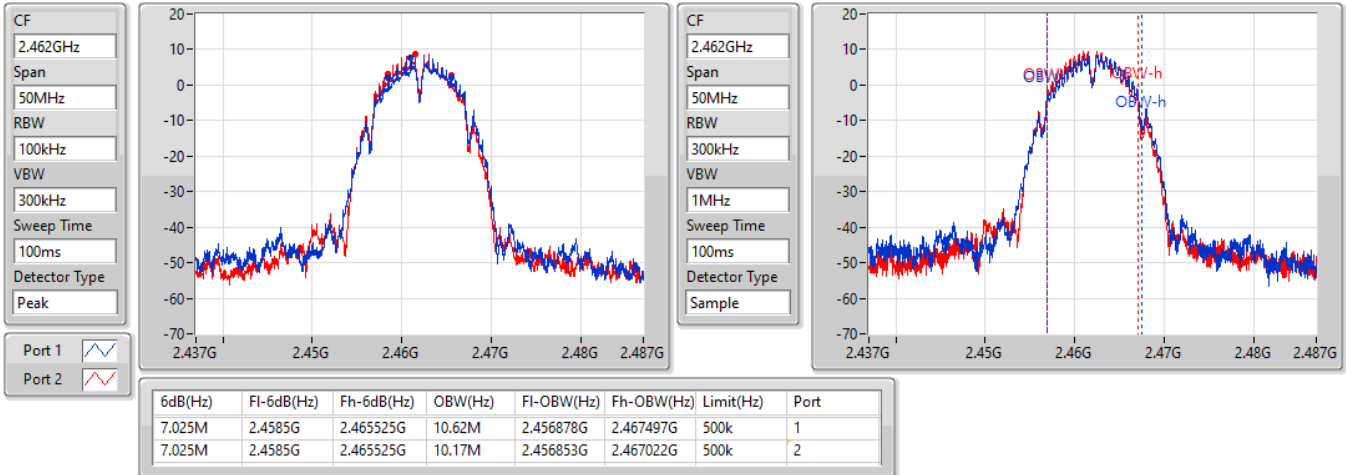


## 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2462MHz

27/07/2021

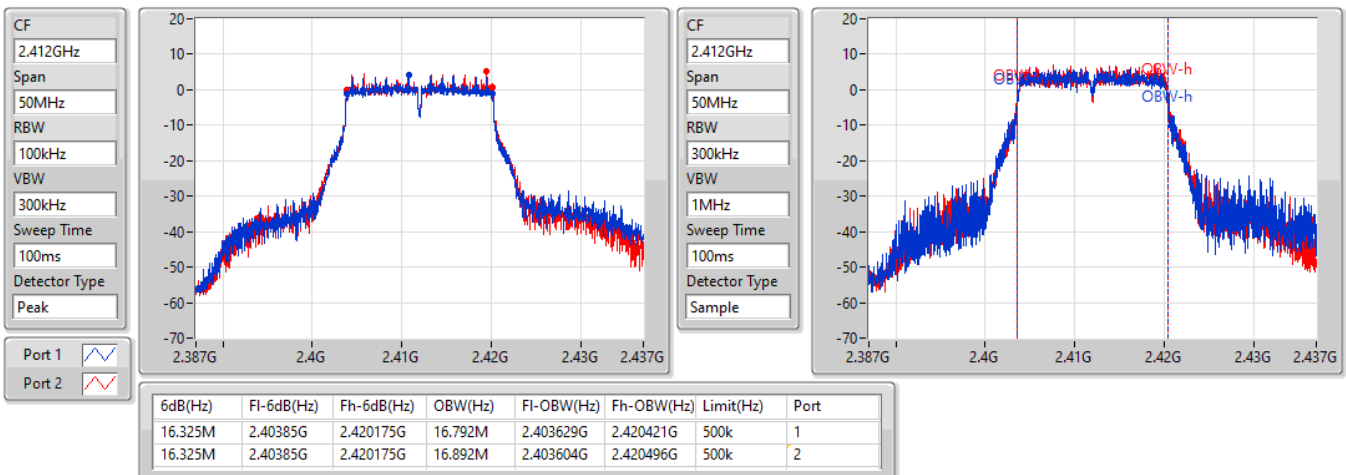


## 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2412MHz

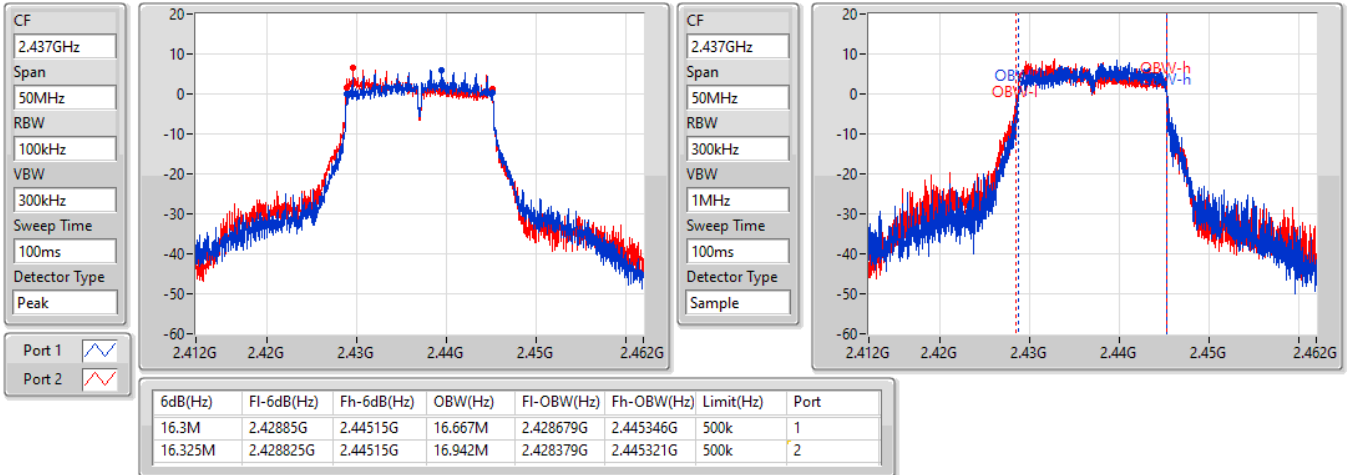
26/07/2021



## 802.11g\_Nss1,(6Mbps)\_2TX

2437MHz

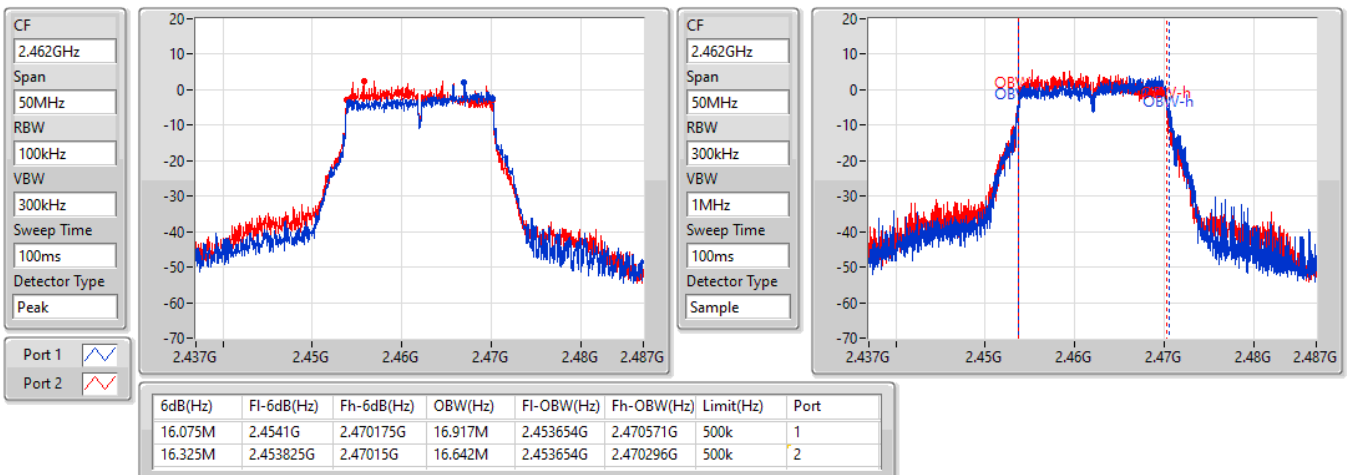
26/07/2021



## 802.11g\_Nss1,(6Mbps)\_2TX

2462MHz

26/07/2021

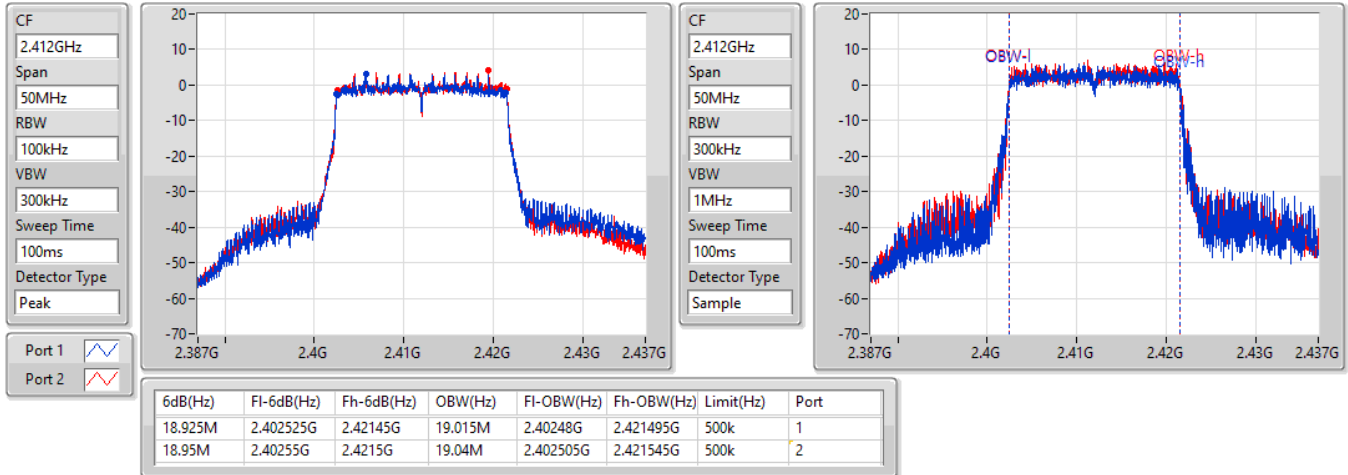


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

EBW

2412MHz

26/07/2021

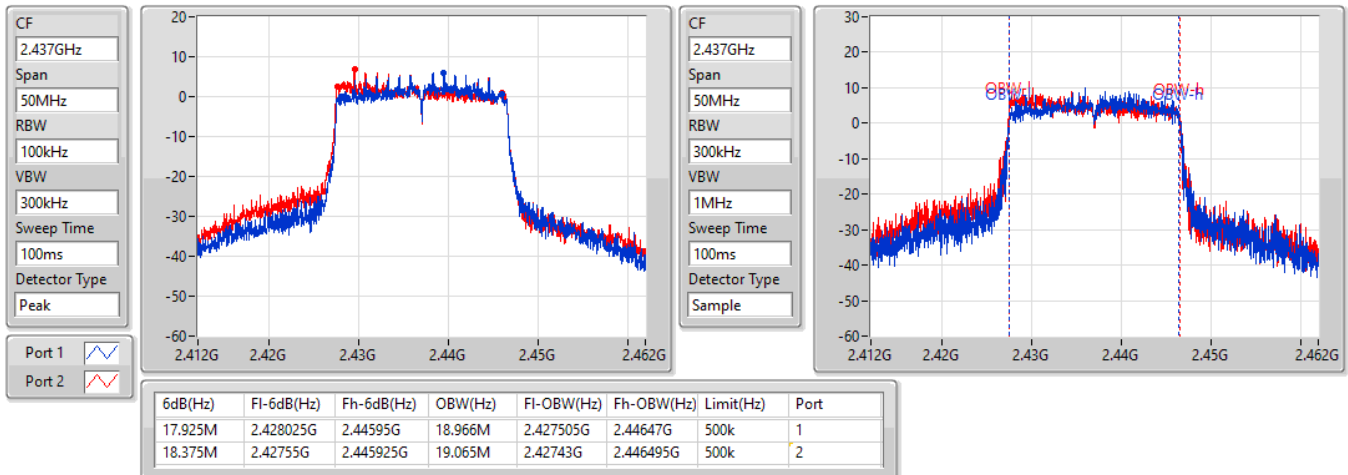


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

EBW

2437MHz

26/07/2021

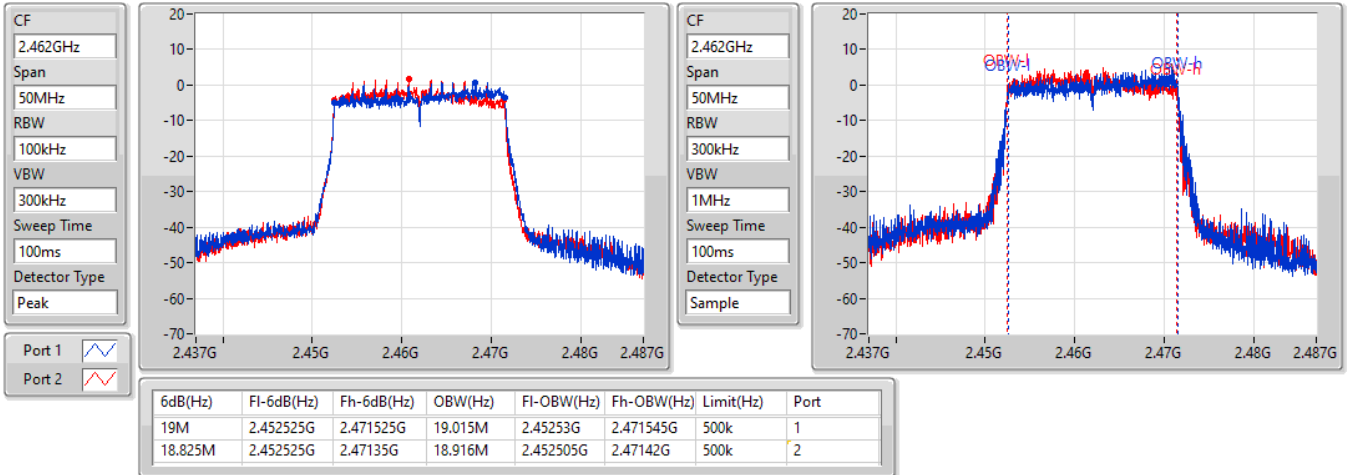


# 802.11ax HEW20\_Nss1,(MCS0)\_2TX

EBW

2462MHz

26/07/2021





**Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz                  | -                | -               | -        | -                | -               |
| 802.11ax HEW20_Nss2,(MCS0)_2TX | 19M              | 19.115M         | 19M1D1D  | 17.975M          | 18.916M         |

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



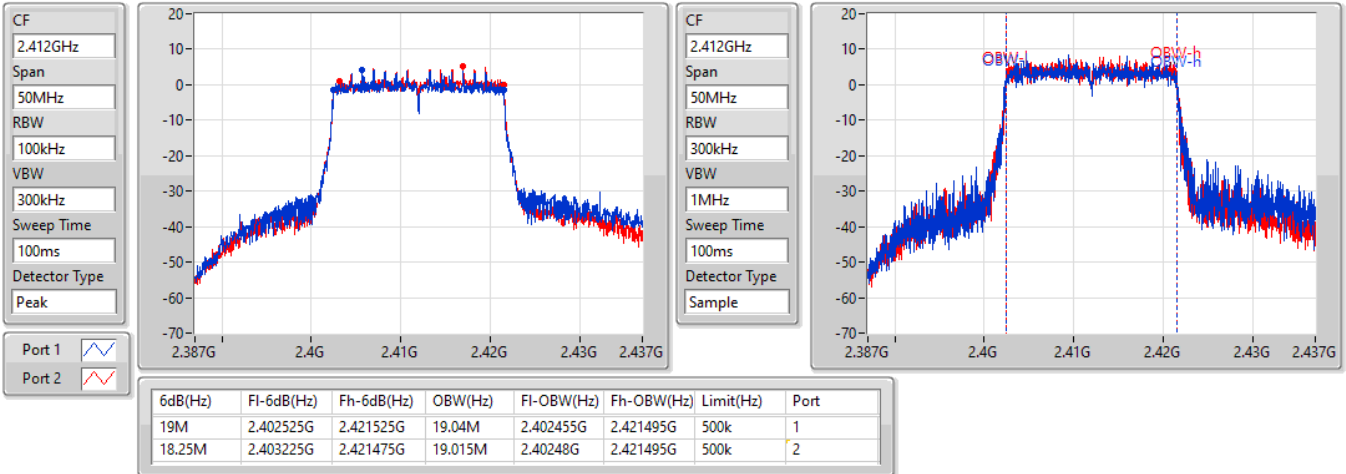
**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11ax HEW20_Nss2,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 19M                 | 19.04M             | 18.25M              | 19.015M            |
| 2462MHz                        | Pass   | 500k          | 18.8M               | 19.115M            | 17.975M             | 18.916M            |

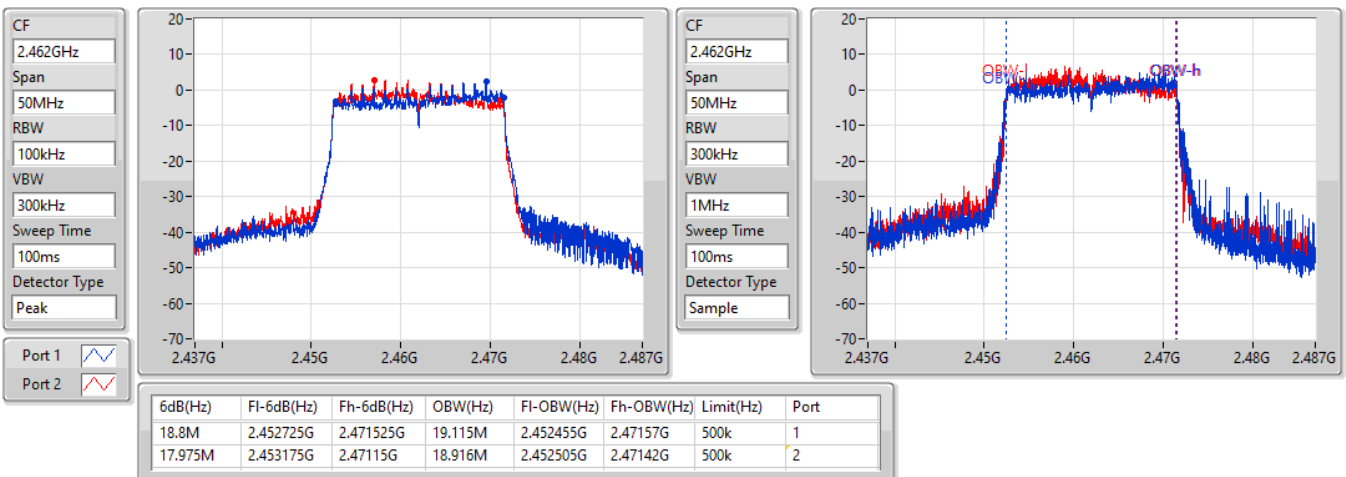
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

**802.11ax HEW20\_Nss2,(MCS0)\_2TX**
**EBW**
**2412MHz**

26/07/2021


**802.11ax HEW20\_Nss2,(MCS0)\_2TX**
**EBW**
**2462MHz**

26/07/2021





## Average Power\_Non-Beamforming\_2T1S

## Appendix C.1

### Summary

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) |
|--------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                  | -                    | -                  |
| 802.11b_Nss1,(1Mbps)_2TX       | 20.34                | 0.10814            |
| 802.11g_Nss1,(6Mbps)_2TX       | 20.00                | 0.10000            |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 20.26                | 0.10617            |



## Average Power\_Non-Beamforming\_2T1S

## Appendix C.1

### Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|
| 802.11b_Nss1,(1Mbps)_2TX       | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.00        | 17.18           | 17.26           | 20.23                | 30.00                |
| 2437MHz                        | Pass   | 2.00        | 17.49           | 17.16           | 20.34                | 30.00                |
| 2462MHz                        | Pass   | 2.00        | 15.65           | 16.68           | 19.21                | 30.00                |
| 802.11g_Nss1,(6Mbps)_2TX       | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.00        | 15.70           | 16.05           | 18.89                | 30.00                |
| 2437MHz                        | Pass   | 2.00        | 16.92           | 17.05           | 20.00                | 30.00                |
| 2462MHz                        | Pass   | 2.00        | 12.83           | 13.98           | 16.45                | 30.00                |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.00        | 14.84           | 15.40           | 18.14                | 30.00                |
| 2437MHz                        | Pass   | 2.00        | 17.12           | 17.37           | 20.26                | 30.00                |
| 2462MHz                        | Pass   | 2.00        | 12.39           | 13.05           | 15.74                | 30.00                |

DG = Directional Gain; Port X = Port X output power



## Average Power\_Non-Beamforming\_2T2S

## Appendix C.2

### Summary

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) |
|--------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                  | -                    | -                  |
| 802.11ax HEW20_Nss2,(MCS0)_2TX | 19.07                | 0.08072            |



**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|
| 802.11ax HEW20_Nss2,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.00        | 15.77           | 16.33           | 19.07                | 30.00                |
| 2462MHz                        | Pass   | 2.00        | 13.19           | 14.01           | 16.63                | 30.00                |

DG = Directional Gain; Port X = Port X output power



**Summary**

| Mode                              | Total Power<br>(dBm) | Total Power<br>(W) |
|-----------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                     | -                    | -                  |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 20.26                | 0.10617            |

**Result**

| Mode                              | Result | DG<br>(dBi) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Port 1<br>(dBm) | Port 2<br>(dBm) |
|-----------------------------------|--------|-------------|----------------------|----------------------|-----------------|-----------------|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | -      | -           | -                    | -                    | -               | -               |
| 2412MHz                           | Pass   | 5.01        | 18.14                | 30.00                | 14.84           | 15.40           |
| 2437MHz                           | Pass   | 5.01        | 20.26                | 30.00                | 17.12           | 17.37           |
| 2462MHz                           | Pass   | 5.01        | 15.74                | 30.00                | 12.39           | 13.05           |

DG = Directional Gain; Port X = Port X output power



**Summary**

| Mode                           | PD<br>(dBm/RBW) |
|--------------------------------|-----------------|
| 2.4-2.4835GHz                  | -               |
| 802.11b_Nss1,(1Mbps)_2TX       | -3.07           |
| 802.11g_Nss1,(6Mbps)_2TX       | -5.51           |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -7.24           |

RBW = 3kHz;



Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_2TX       | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 5.01        | -5.77               | -5.83               | -3.57           | 8.00                  |
| 2437MHz                        | Pass   | 5.01        | -4.88               | -5.43               | -3.07           | 8.00                  |
| 2462MHz                        | Pass   | 5.01        | -7.11               | -6.13               | -4.51           | 8.00                  |
| 802.11g_Nss1,(6Mbps)_2TX       | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 5.01        | -9.75               | -9.75               | -7.18           | 8.00                  |
| 2437MHz                        | Pass   | 5.01        | -7.86               | -7.75               | -5.51           | 8.00                  |
| 2462MHz                        | Pass   | 5.01        | -12.68              | -11.08              | -8.92           | 8.00                  |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 5.01        | -11.28              | -11.12              | -8.56           | 8.00                  |
| 2437MHz                        | Pass   | 5.01        | -9.26               | -8.42               | -7.24           | 8.00                  |
| 2462MHz                        | Pass   | 5.01        | -14.00              | -12.87              | -10.73          | 8.00                  |

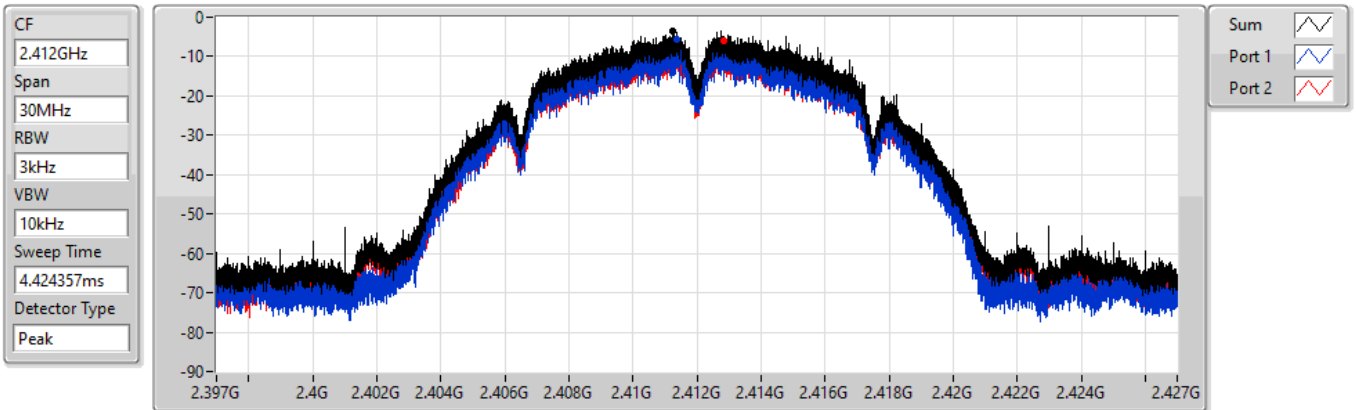
DG = Directional Gain; RBW = 3kHz;  
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

## 802.11b\_Nss1,(1Mbps)\_2TX

## PSD

2412MHz

27/07/2021

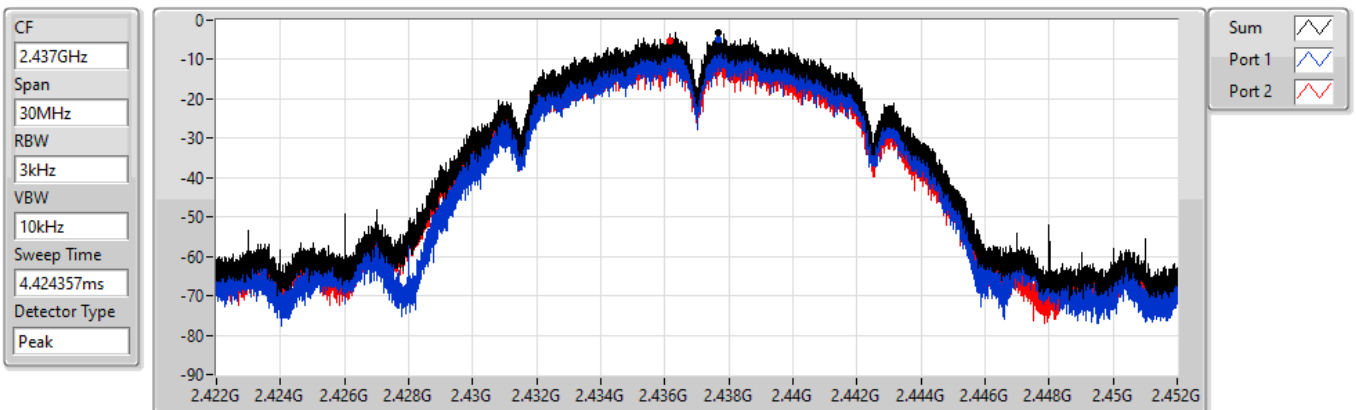


## 802.11b\_Nss1,(1Mbps)\_2TX

## PSD

2437MHz

27/07/2021

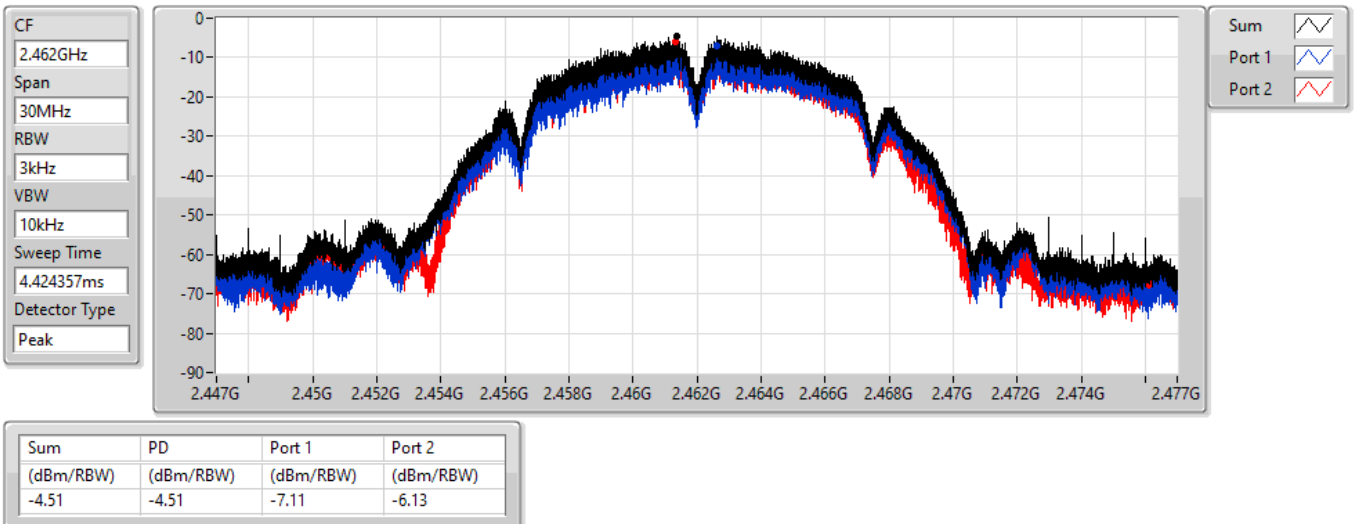


## 802.11b\_Nss1,(1Mbps)\_2TX

## PSD

2462MHz

27/07/2021

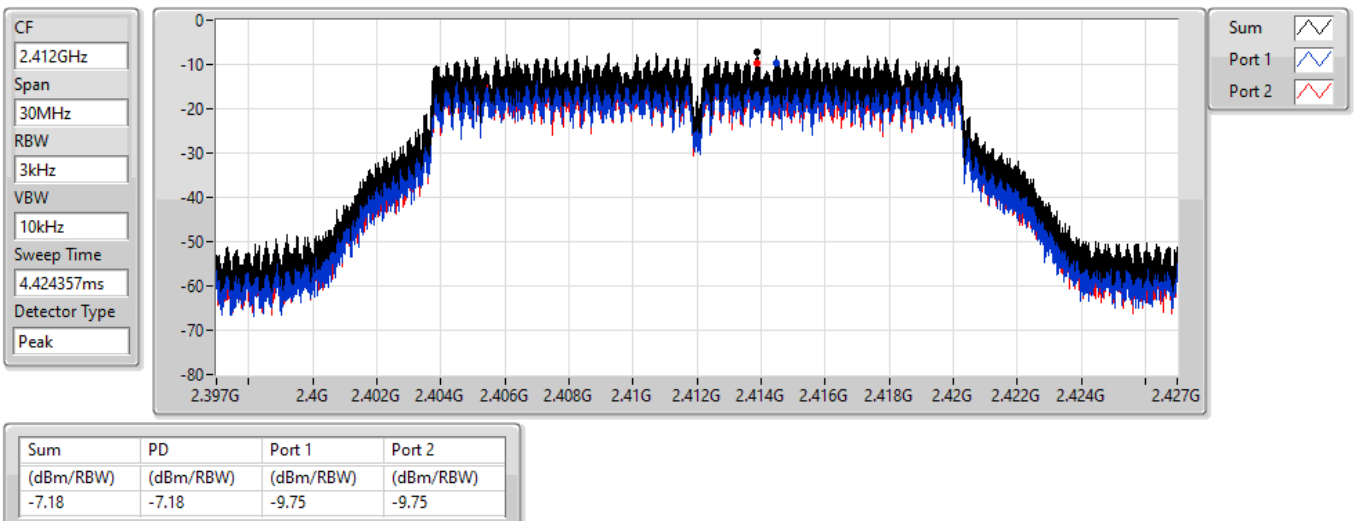


## 802.11g\_Nss1,(6Mbps)\_2TX

## PSD

2412MHz

26/07/2021

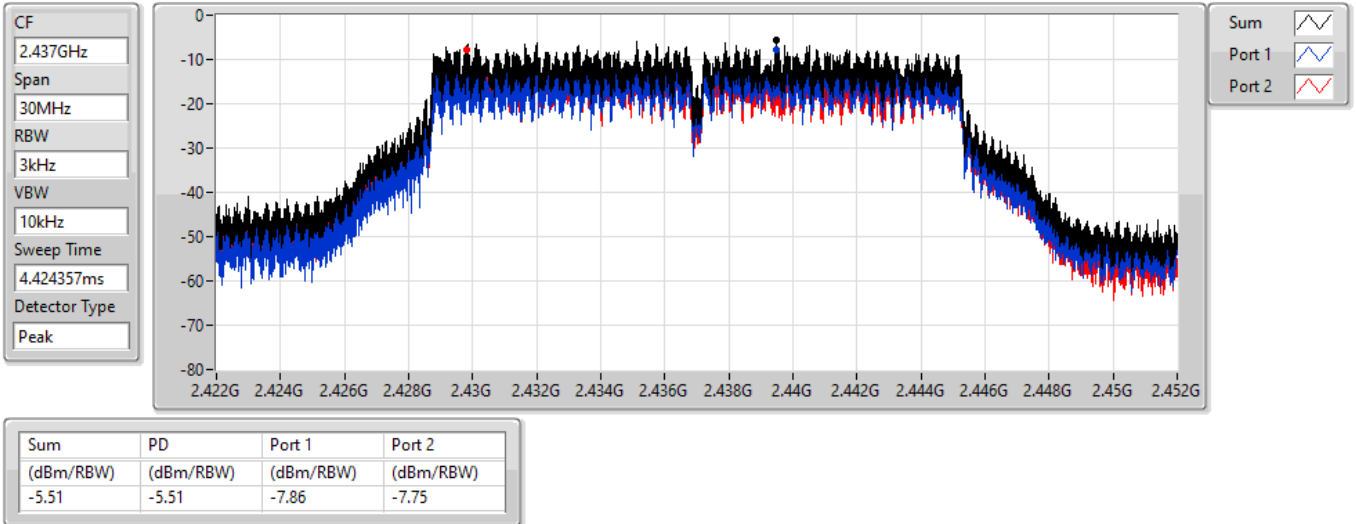


## 802.11g\_Nss1,(6Mbps)\_2TX

2437MHz

PSD

26/07/2021

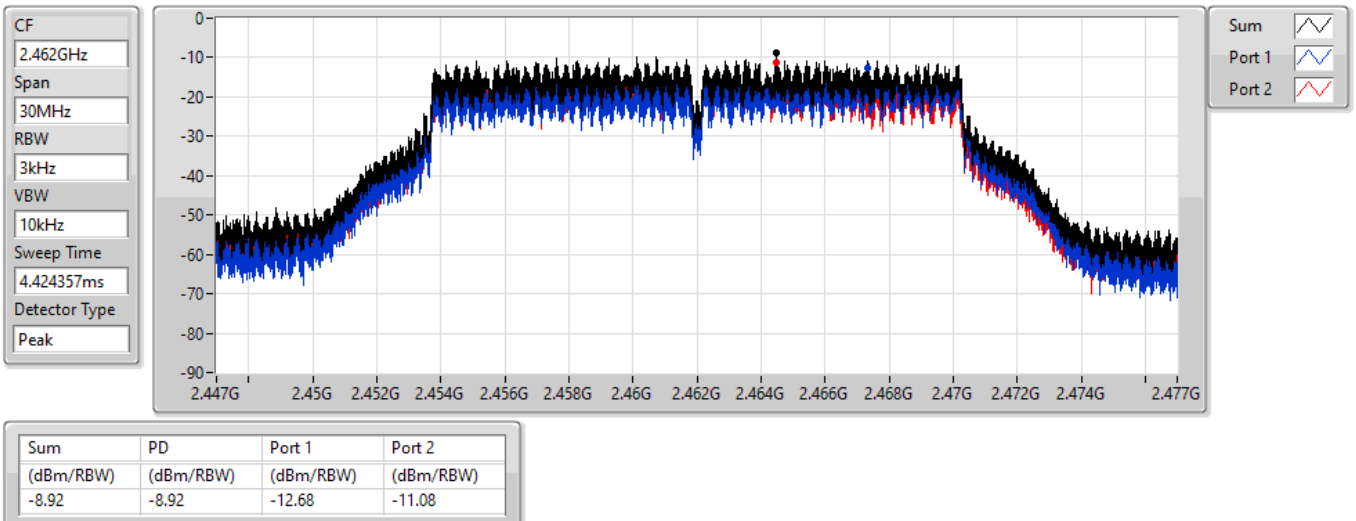


## 802.11g\_Nss1,(6Mbps)\_2TX

2462MHz

PSD

26/07/2021

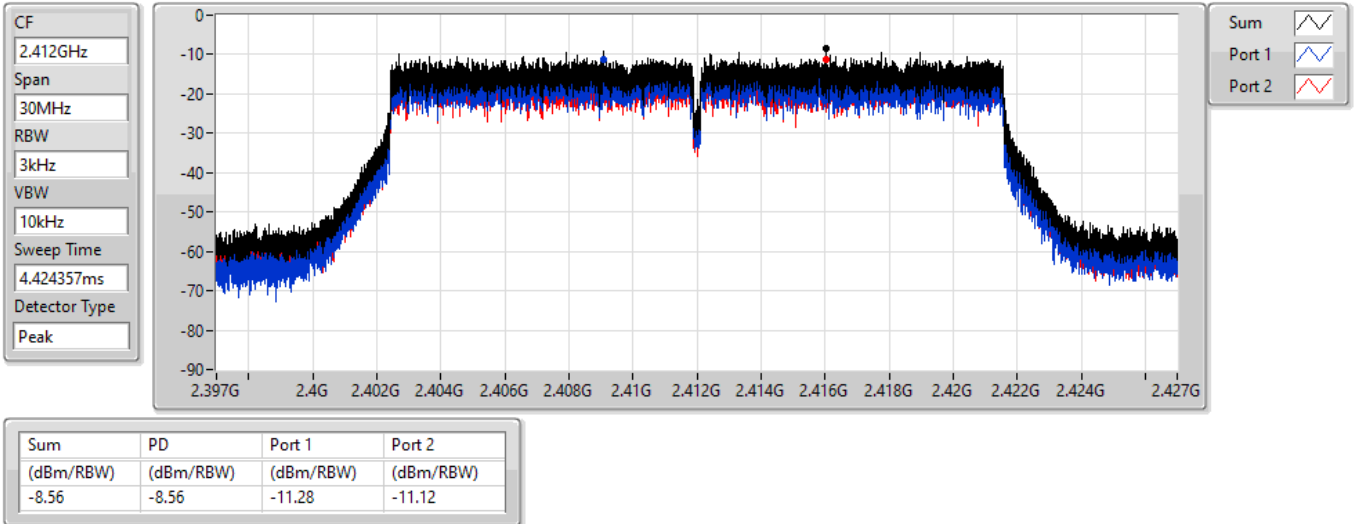


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## PSD

2412MHz

26/07/2021

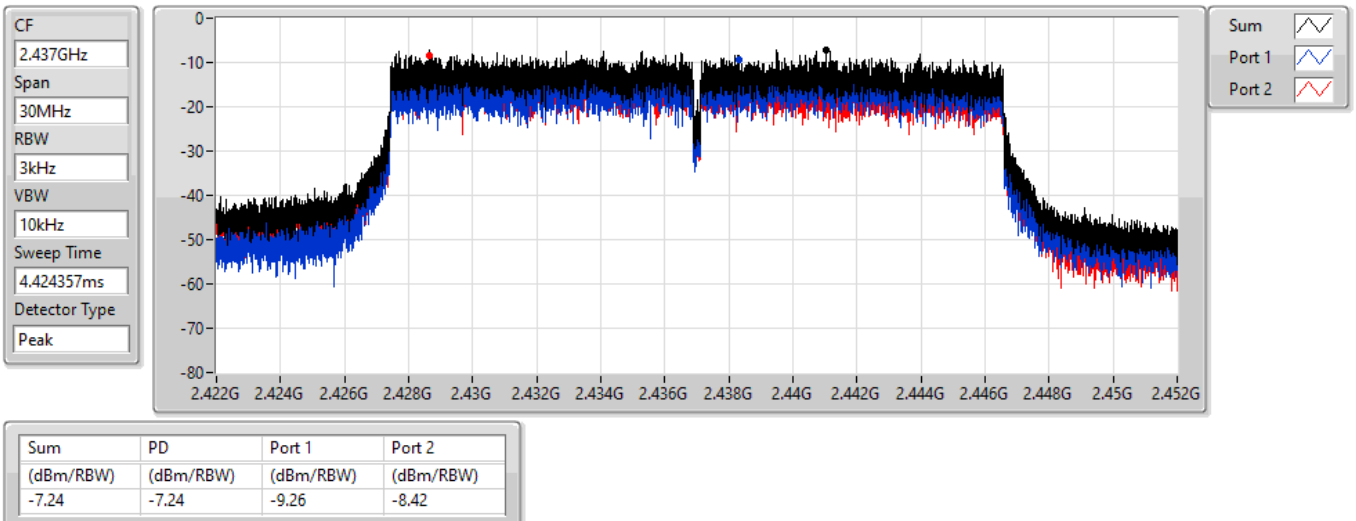


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## PSD

2437MHz

26/07/2021

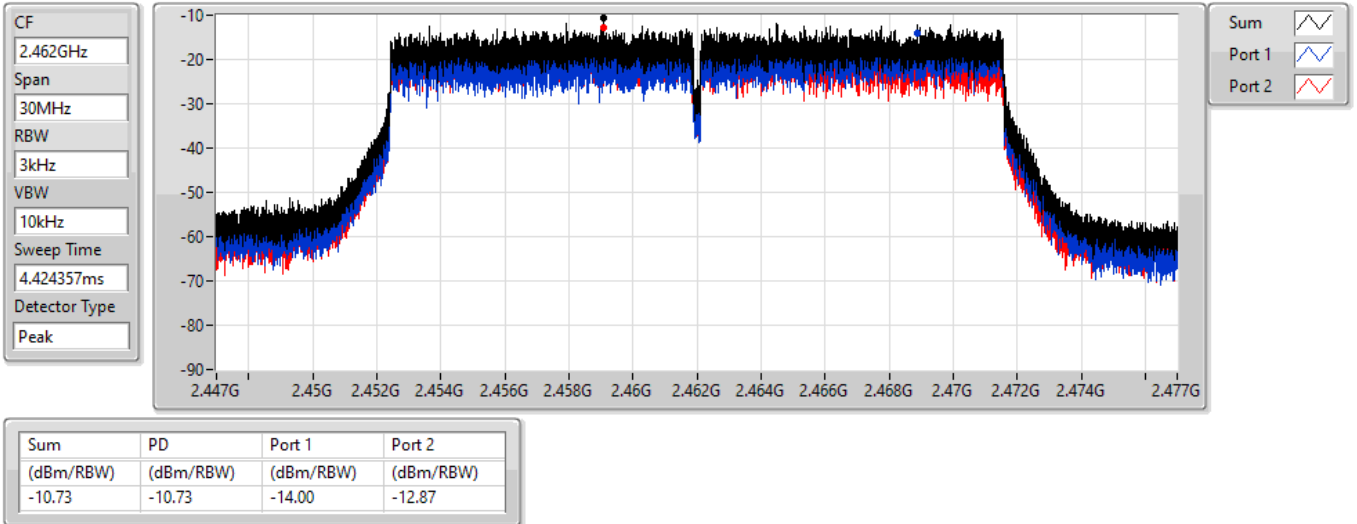


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

2462MHz

PSD

26/07/2021





**Summary**

| Mode                           | PD<br>(dBm/RBW) |
|--------------------------------|-----------------|
| 2.4-2.4835GHz                  | -               |
| 802.11ax HEW20_Nss2,(MCS0)_2TX | -8.55           |

RBW = 3kHz;



Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11ax HEW20_Nss2,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 2.00        | -10.49              | -11.33              | -8.55           | 8.00                  |
| 2462MHz                        | Pass   | 2.00        | -13.44              | -12.51              | -11.67          | 8.00                  |

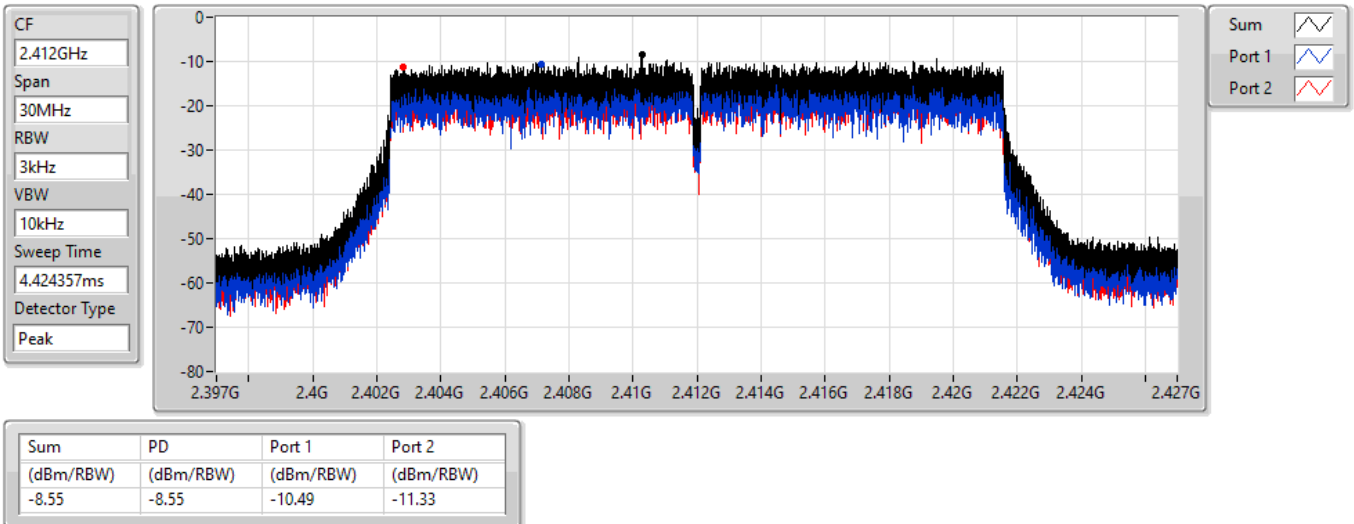
DG = Directional Gain; RBW = 3kHz;  
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

## 802.11ax HEW20\_Nss2,(MCS0)\_2TX

## PSD

2412MHz

26/07/2021

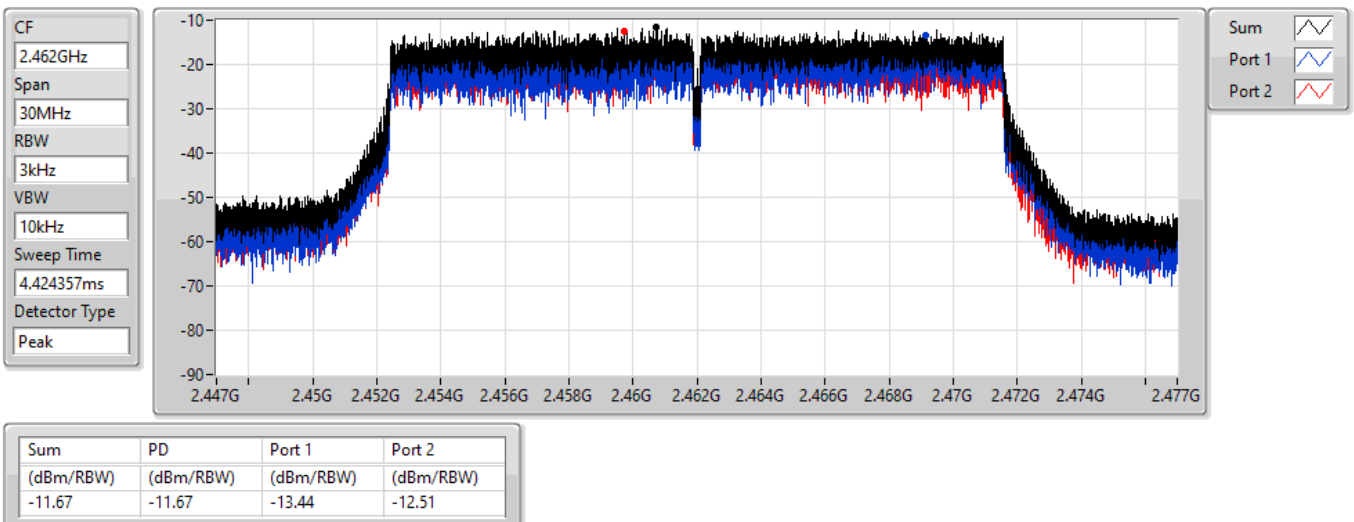


## 802.11ax HEW20\_Nss2,(MCS0)\_2TX

## PSD

2462MHz

26/07/2021



**Summary**

| Mode                           | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|--------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz                  | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 802.11b_Nss1,(1Mbps)_2TX       | Pass   | 2.43799G    | 10.17        | -19.83         | 2.16457G     | -65.63         | 2.399G       | -43.51         | 2.4G         | -46.30         | 2.4835G      | -58.91         | 7.23233G     | -42.24         | 2    |
| 802.11g_Nss1,(6Mbps)_2TX       | Pass   | 2.43198G    | 7.05         | -22.95         | 1.87041G     | -65.04         | 2.39982G     | -28.68         | 2.4G         | -33.27         | 2.48544G     | -57.68         | 7.23795G     | -47.05         | 2    |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | Pass   | 2.43077G    | 7.14         | -22.86         | 2.09147G     | -65.10         | 2.39952G     | -31.73         | 2.4G         | -37.65         | 2.48358G     | -57.11         | 7.23795G     | -48.03         | 1    |

**Result**

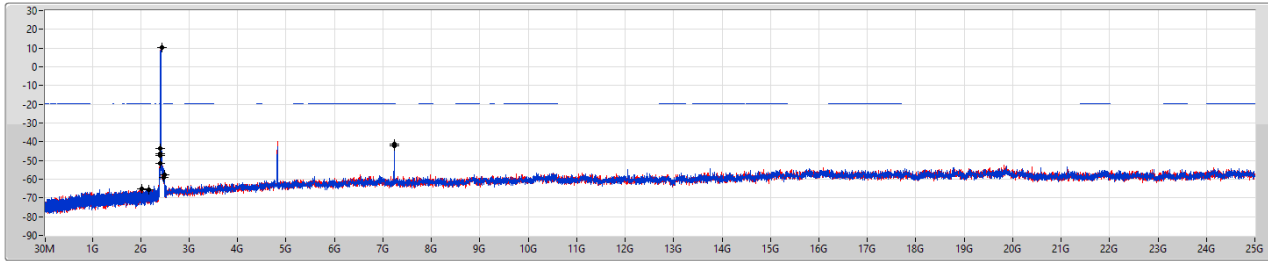
| Mode                           | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|--------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_Nss1,(1Mbps)_2TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43799G    | 10.17        | -19.83         | 2.01778G     | -65.05         | 2.398G       | -47.47         | 2.4G         | -51.53         | 2.48472G     | -57.74         | 7.23514G     | -41.25         | 1    |
| 2412MHz                        | Pass   | 2.43799G    | 10.17        | -19.83         | 2.16457G     | -65.63         | 2.399G       | -43.51         | 2.4G         | -46.30         | 2.4835G      | -58.91         | 7.23233G     | -42.24         | 2    |
| 2437MHz                        | Pass   | 2.43799G    | 10.17        | -19.83         | 2.11244G     | -63.69         | 2.39936G     | -55.52         | 2.4835G      | -57.92         | 2.48686G     | -55.68         | 24.79771G    | -54.13         | 1    |
| 2437MHz                        | Pass   | 2.43799G    | 10.17        | -19.83         | 2.30903G     | -64.84         | 2.39434G     | -53.49         | 2.4G         | -54.49         | 2.48368G     | -54.61         | 24.49428G    | -53.24         | 2    |
| 2462MHz                        | Pass   | 2.43799G    | 10.17        | -19.83         | 2.13486G     | -65.65         | 2.39936G     | -56.67         | 2.4835G      | -51.39         | 2.4835G      | -51.12         | 17.2428G     | -53.71         | 1    |
| 2462MHz                        | Pass   | 2.43799G    | 10.17        | -19.83         | 1.75304G     | -64.79         | 2.39906G     | -55.97         | 2.4835G      | -56.62         | 2.48548G     | -50.09         | 24.14589G    | -54.19         | 2    |
| 802.11g_Nss1,(6Mbps)_2TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43198G    | 7.05         | -22.95         | 1.9904G      | -64.16         | 2.397G       | -31.45         | 2.4G         | -33.64         | 2.48488G     | -56.94         | 7.24076G     | -47.22         | 1    |
| 2412MHz                        | Pass   | 2.43198G    | 7.05         | -22.95         | 1.87041G     | -65.04         | 2.39982G     | -28.68         | 2.4G         | -33.27         | 2.48544G     | -57.68         | 7.23795G     | -47.05         | 2    |
| 2437MHz                        | Pass   | 2.43198G    | 7.05         | -22.95         | 2.14331G     | -64.65         | 2.39922G     | -46.06         | 2.4G         | -50.91         | 2.48456G     | -53.67         | 17.25404G    | -53.41         | 1    |
| 2437MHz                        | Pass   | 2.43198G    | 7.05         | -22.95         | 2.14826G     | -64.66         | 2.39844G     | -48.67         | 2.4G         | -51.32         | 2.48352G     | -51.62         | 24.63757G    | -53.85         | 2    |
| 2462MHz                        | Pass   | 2.43198G    | 7.05         | -22.95         | 1.78769G     | -64.58         | 2.39884G     | -58.33         | 2.4835G      | -45.55         | 2.48362G     | -44.06         | 24.18804G    | -53.58         | 1    |
| 2462MHz                        | Pass   | 2.43198G    | 7.05         | -22.95         | 2.12642G     | -64.69         | 2.3998G      | -56.89         | 2.4835G      | -47.90         | 2.48388G     | -44.70         | 24.19647G    | -53.50         | 2    |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43077G    | 7.14         | -22.86         | 2.09147G     | -65.10         | 2.39952G     | -31.73         | 2.4G         | -37.65         | 2.48358G     | -57.11         | 7.23795G     | -48.03         | 1    |
| 2412MHz                        | Pass   | 2.43077G    | 7.14         | -22.86         | 2.10749G     | -64.47         | 2.39856G     | -32.39         | 2.4G         | -35.99         | 2.48396G     | -59.10         | 7.23233G     | -49.34         | 2    |
| 2437MHz                        | Pass   | 2.43077G    | 7.14         | -22.86         | 2.14098G     | -65.14         | 2.39922G     | -42.92         | 2.4G         | -47.28         | 2.48468G     | -53.35         | 17.52094G    | -53.50         | 1    |
| 2437MHz                        | Pass   | 2.43077G    | 7.14         | -22.86         | 2.08098G     | -64.86         | 2.39882G     | -47.69         | 2.4G         | -47.34         | 2.48406G     | -52.42         | 24.12904G    | -52.55         | 2    |
| 2462MHz                        | Pass   | 2.43077G    | 7.14         | -22.86         | 2.18612G     | -65.24         | 2.39948G     | -58.35         | 2.4835G      | -49.39         | 2.48374G     | -42.90         | 21.92072G    | -53.44         | 1    |
| 2462MHz                        | Pass   | 2.43077G    | 7.14         | -22.86         | 1.99128G     | -65.02         | 2.39998G     | -57.19         | 2.4835G      | -45.91         | 2.4841G      | -44.26         | 23.19064G    | -53.18         | 2    |

## 802.11b\_Nss1,(1Mbps)\_2TX

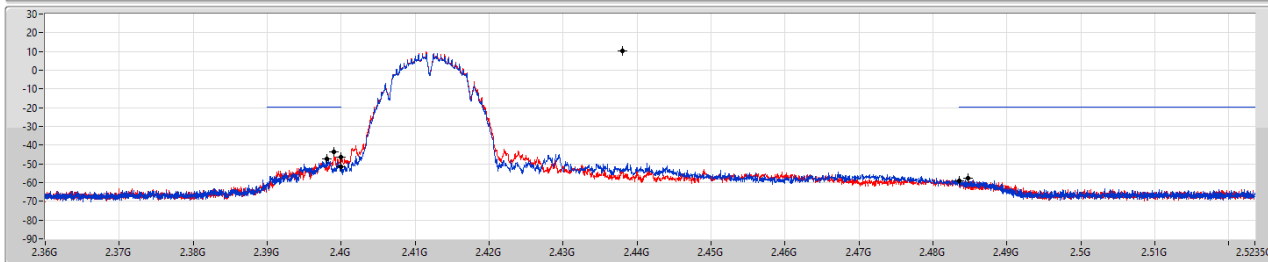
CSENdB

2412MHz

27/07/2021



Port 1  
Port 2



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

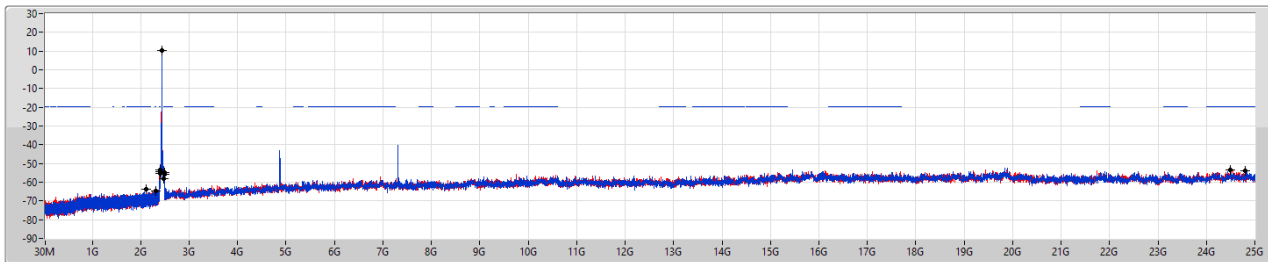
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43799G | 10.17    | -19.83     | 2.01778G | -65.05     | 2.398G   | -47.47     | 2.4G     | -51.53     | 2.48472G | -57.74     | 7.23514G | -41.25     | 1    |
| 2.43799G | 10.17    | -19.83     | 2.16457G | -65.63     | 2.399G   | -43.51     | 2.4G     | -46.30     | 2.4835G  | -58.91     | 7.23233G | -42.24     | 2    |

## 802.11b\_Nss1,(1Mbps)\_2TX

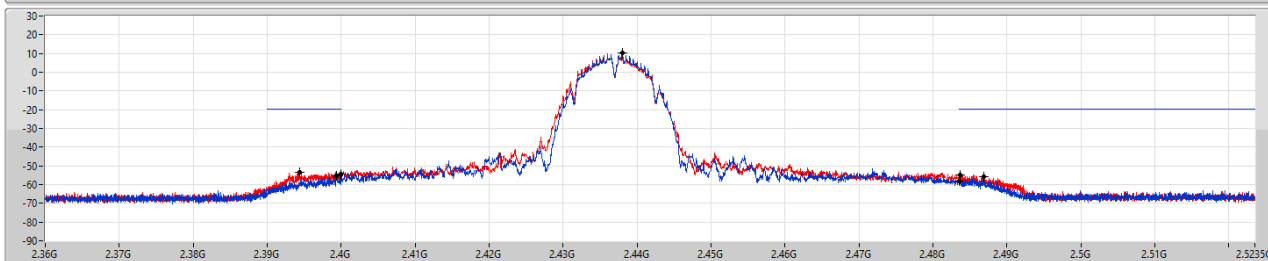
CSENdB

2437MHz

27/07/2021



Port 1  
Port 2



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

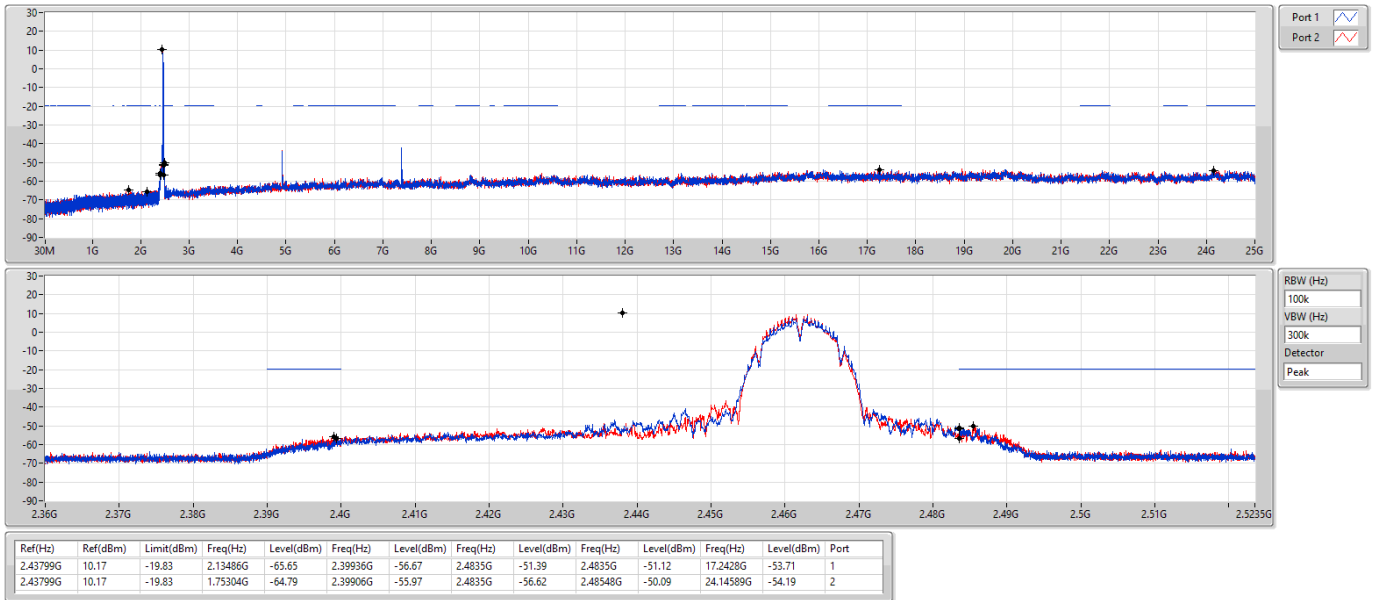
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.43799G | 10.17    | -19.83     | 2.11244G | -63.69     | 2.39936G | -55.52     | 2.4835G  | -57.92     | 2.48686G | -55.68     | 24.79771G | -54.13     | 1    |
| 2.43799G | 10.17    | -19.83     | 2.30903G | -64.84     | 2.39434G | -53.49     | 2.4G     | -54.49     | 2.48368G | -54.61     | 24.49428G | -53.24     | 2    |

## 802.11b\_Nss1,(1Mbps)\_2TX

2462MHz

CSENdB

27/07/2021

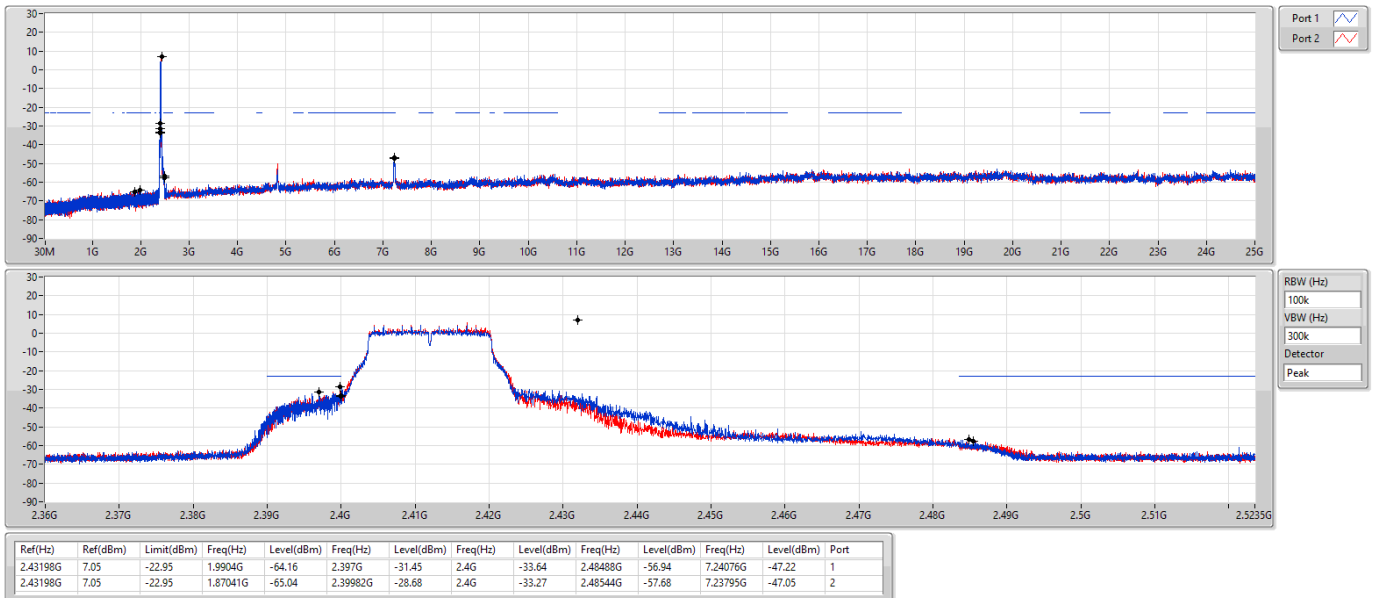


## 802.11g\_Nss1,(6Mbps)\_2TX

2412MHz

CSENdB

26/07/2021

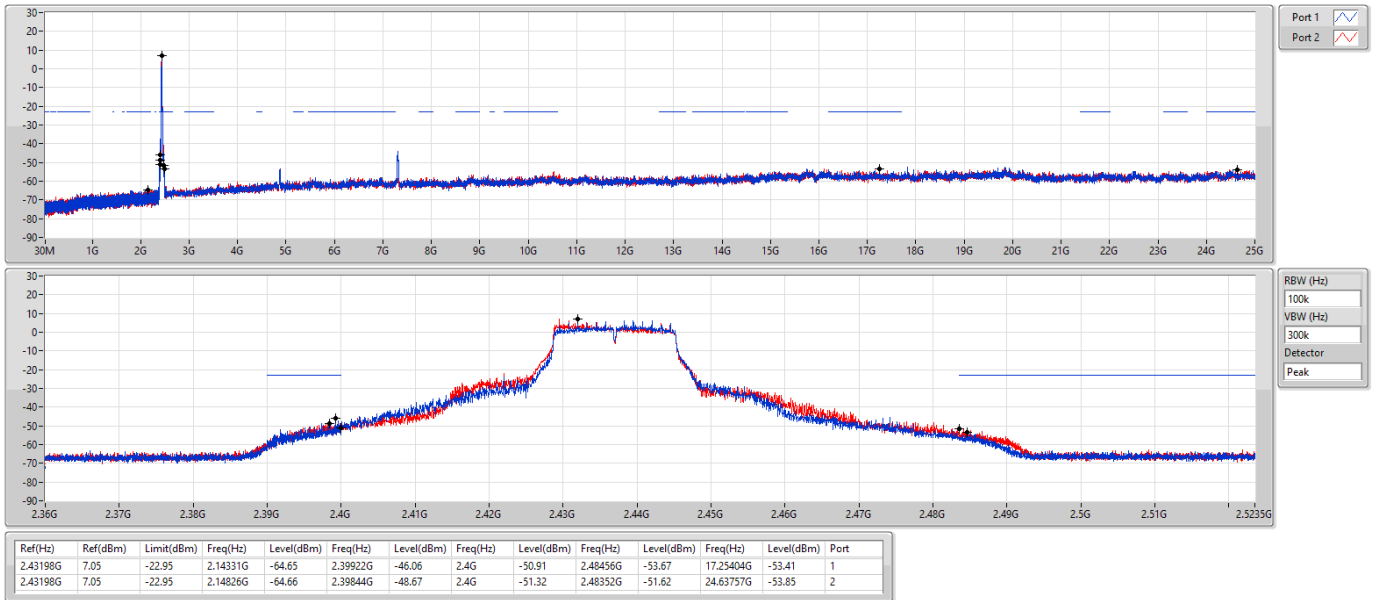


## 802.11g\_Nss1,(6Mbps)\_2TX

2437MHz

CSENdB

26/07/2021

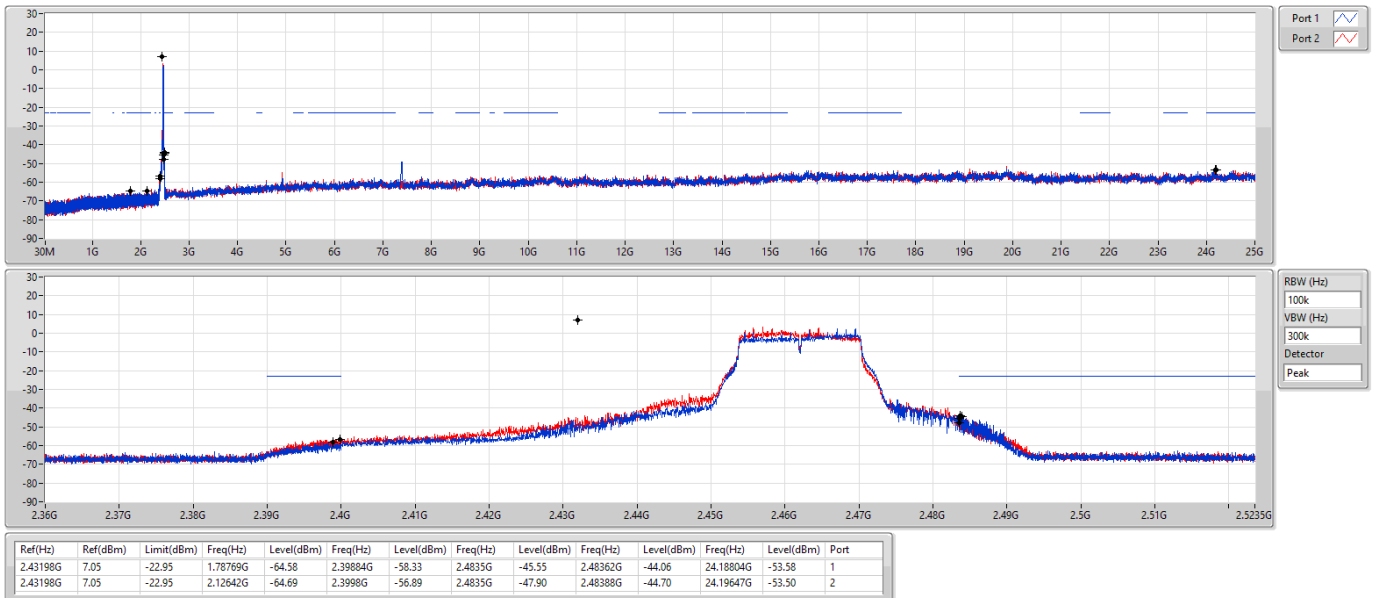


## 802.11g\_Nss1,(6Mbps)\_2TX

2462MHz

CSENdB

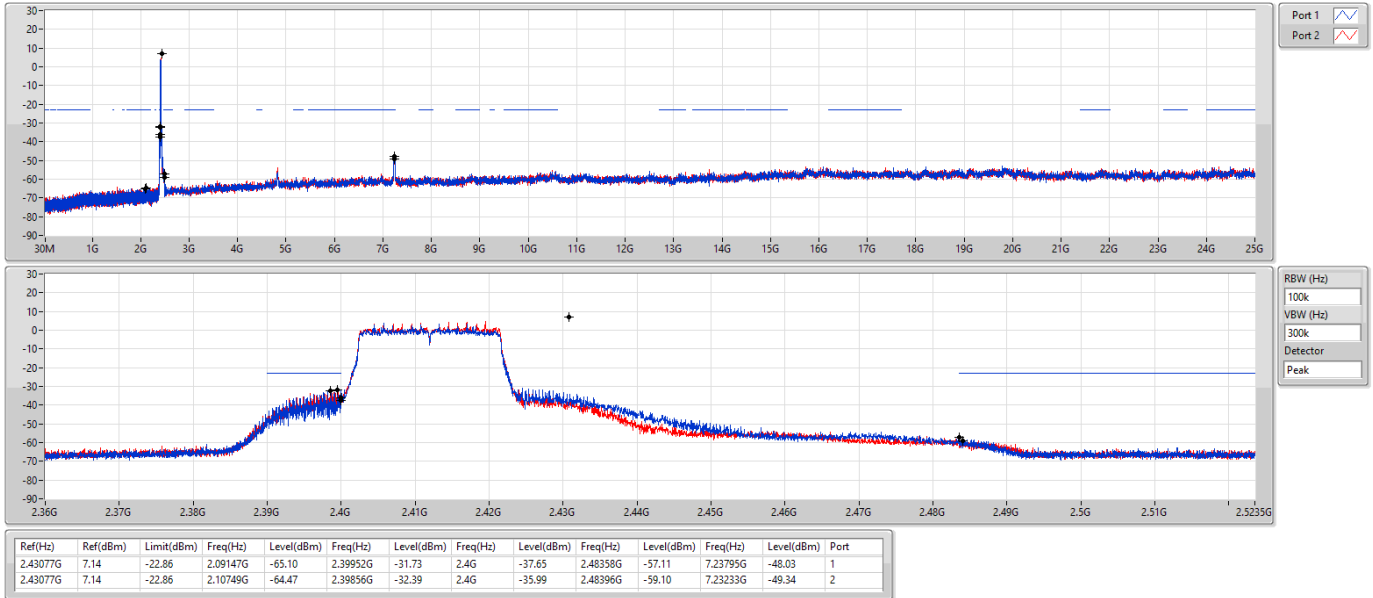
26/07/2021



802.11ax HEW20\_Nss1,(MCS0)\_2TX

CSENdB

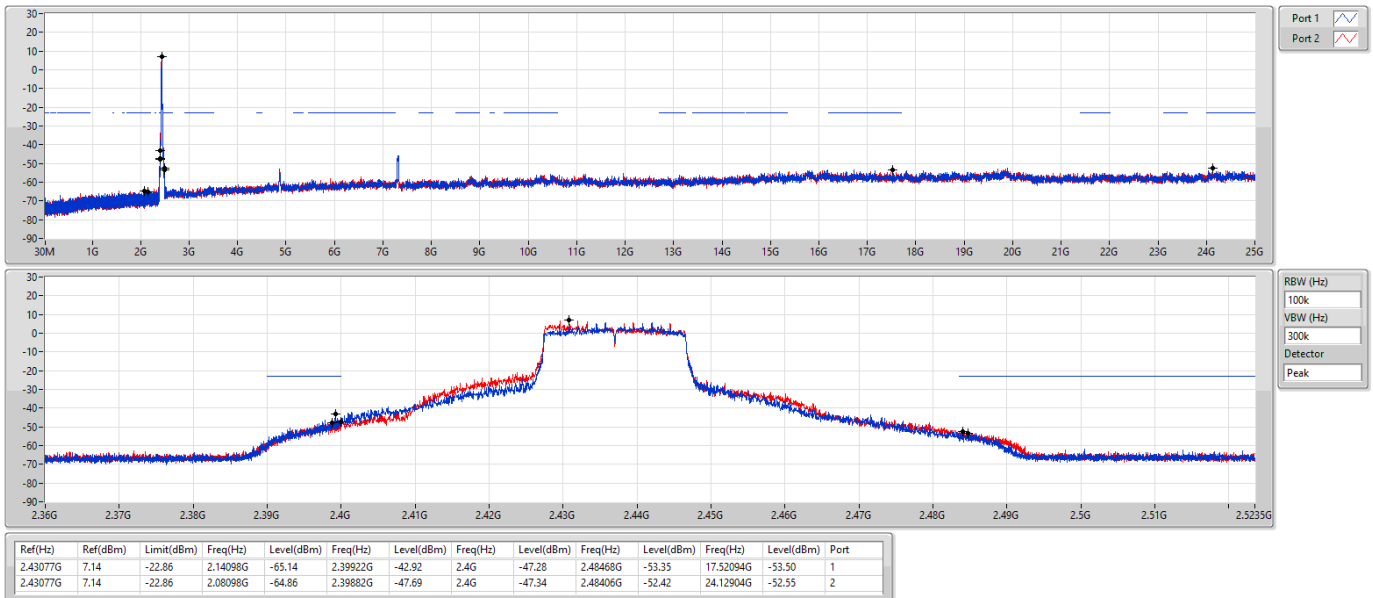
2412MHz



802.11ax HEW20\_Nss1,(MCS0)\_2TX

CSENdB

2437MHz

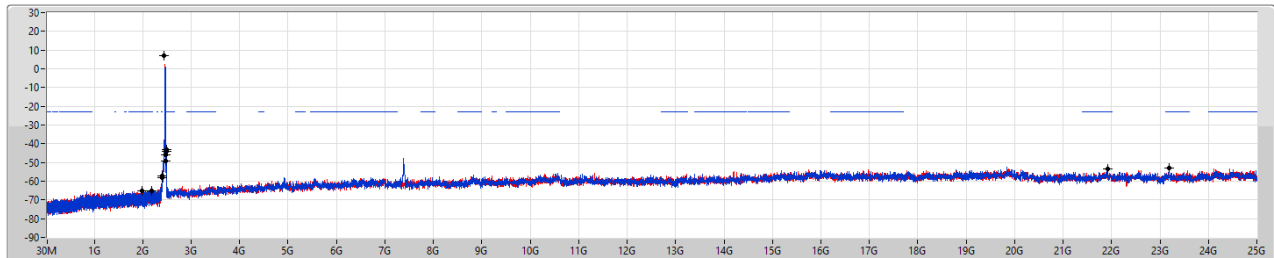
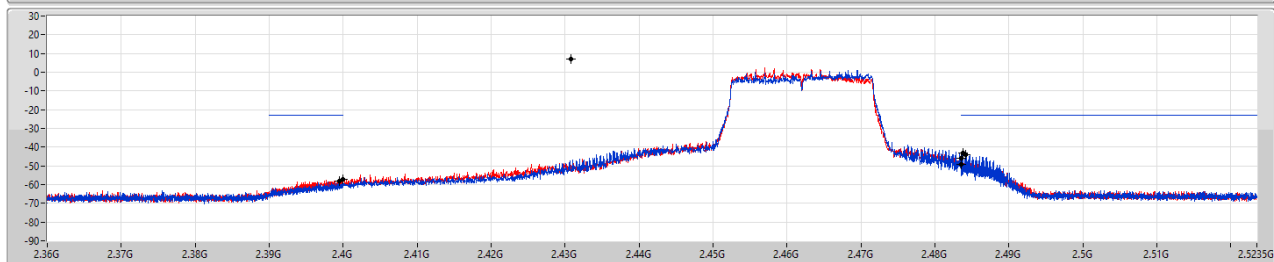


802.11ax HEW20\_Nss1,(MCS0)\_2TX

CSEndB

2462MHz

26/07/2021

Port 1  
Port 2RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.43077G | 7.14     | -22.86     | 2.18612G | -65.24     | 2.39948G | -58.35     | 2.4835G  | -49.39     | 2.48374G | -42.90     | 21.92072G | -53.44     | 1    |
| 2.43077G | 7.14     | -22.86     | 1.99128G | -65.02     | 2.39998G | -57.19     | 2.4835G  | -45.91     | 2.4841G  | -44.26     | 23.19064G | -53.18     | 2    |



Summary

| Mode                           | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|--------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz                  | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 802.11ax HEW20_Nss2,(MCS0)_2TX | Pass   | 2.40572G    | 4.44         | -25.56         | 1.84915G     | -64.96         | 2.39944G     | -30.45         | 2.4G         | -32.82         | 2.4875G      | -56.71         | 7.23514G     | -46.79         | 1    |

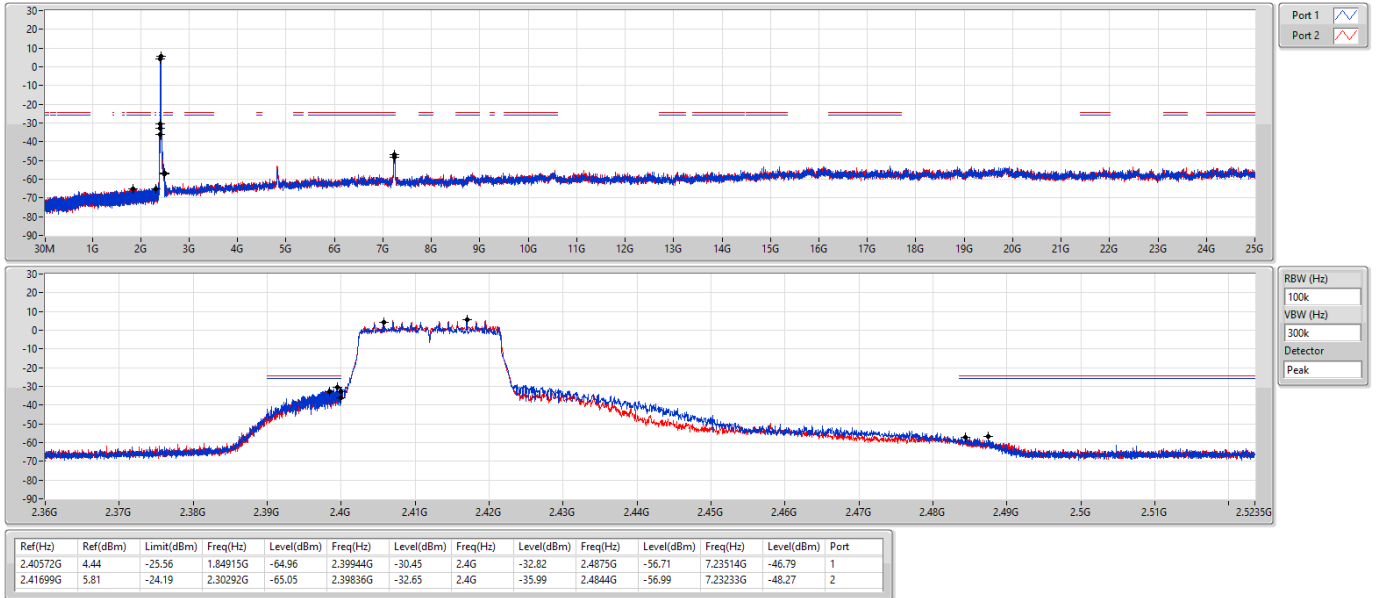
**Result**

| Mode                          | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|-------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11ax HEW20_Nss2(MCS0)_2TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                       | Pass   | 2.40572G    | 4.44         | -25.56         | 1.84915G     | -64.96         | 2.39944G     | -30.45         | 2.4G         | -32.82         | 2.4875G      | -56.71         | 7.23514G     | -46.79         | 1    |
| 2412MHz                       | Pass   | 2.41699G    | 5.81         | -24.19         | 2.30292G     | -65.05         | 2.39836G     | -32.65         | 2.4G         | -35.99         | 2.4844G      | -56.99         | 7.23233G     | -48.27         | 2    |
| 2462MHz                       | Pass   | 2.46951G    | 2.95         | -27.05         | 2.12263G     | -64.55         | 2.39868G     | -57.34         | 2.4835G      | -42.18         | 2.48402G     | -40.39         | 23.17378G    | -53.58         | 1    |
| 2462MHz                       | Pass   | 2.45703G    | 3.12         | -26.88         | 2.14884G     | -64.32         | 2.39814G     | -55.28         | 2.4835G      | -45.44         | 2.48366G     | -43.67         | 24.83985G    | -53.50         | 2    |

802.11ax HEW20\_Nss2,(MCS0)\_2TX

CSENdB

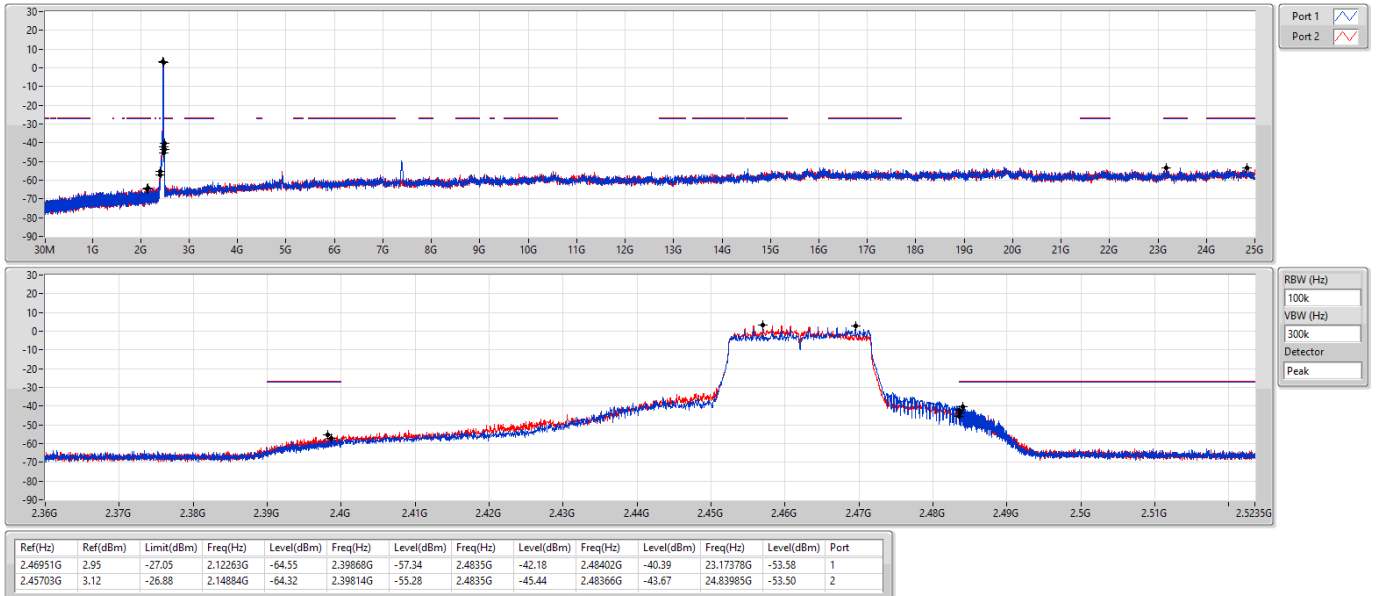
2412MHz



802.11ax HEW20\_Nss2,(MCS0)\_2TX

CSENdB

2462MHz





**Summary**

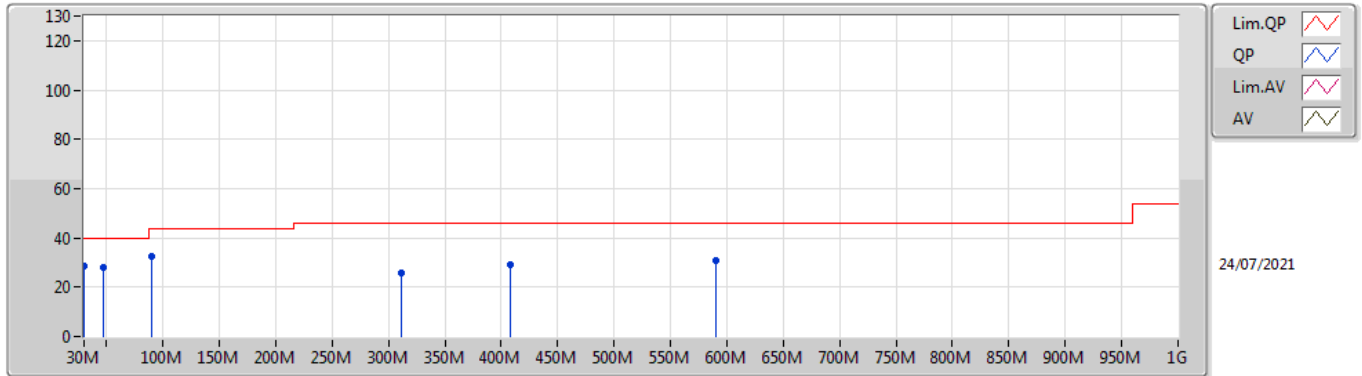
| Mode                           | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|-----------|----------------|---------------|----------|
| 2.4-2.4835GHz                  | -      | -    | -            | -                 | -                 | -              | -           | -         | -              | -             | -        |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | Pass   | PK   | 90.14M       | 32.47             | 43.50             | -11.03         | 3           | Vertical  | 0              | 1.00          | -        |

**Result**

| Mode                           | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2437MHz                        | Pass   | PK   | 30M          | 28.65             | 40.00             | -11.35         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 47.46M       | 28.15             | 40.00             | -11.85         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 90.14M       | 32.47             | 43.50             | -11.03         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 311.3M       | 25.87             | 46.00             | -20.13         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 408.3M       | 28.99             | 46.00             | -17.01         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 590.66M      | 30.97             | 46.00             | -15.03         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 30M          | 26.77             | 40.00             | -13.23         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 90.14M       | 32.15             | 43.50             | -11.35         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 109.54M      | 31.15             | 43.50             | -12.35         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 255.04M      | 24.47             | 46.00             | -21.53         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 315.18M      | 25.84             | 46.00             | -20.16         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                        | Pass   | PK   | 573.2M       | 30.07             | 46.00             | -15.93         | 3           | Horizontal | 360            | 1.00          | -        |

## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

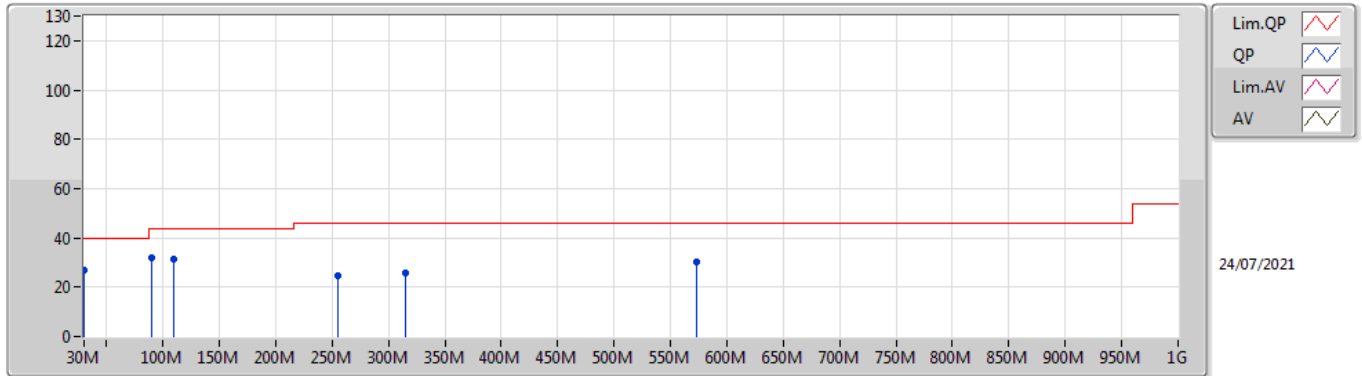
### 2437MHz\_Adapter1



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 30M     | 28.65    | 40.00    | -11.35 | -2.81  | 3    | Vertical  | 0       | 1.00   | -       | 31.46  | 23.32 | 0.86 | 26.99 |
| PK   | 47.46M  | 28.15    | 40.00    | -11.85 | -12.55 | 3    | Vertical  | 0       | 1.00   | -       | 40.70  | 14.05 | 1.04 | 27.64 |
| PK   | 90.14M  | 32.47    | 43.50    | -11.03 | -12.41 | 3    | Vertical  | 0       | 1.00   | -       | 44.88  | 14.08 | 1.35 | 27.84 |
| PK   | 311.3M  | 25.87    | 46.00    | -20.13 | -5.96  | 3    | Vertical  | 0       | 1.00   | -       | 31.83  | 18.76 | 2.40 | 27.12 |
| PK   | 408.3M  | 28.99    | 46.00    | -17.01 | -3.54  | 3    | Vertical  | 0       | 1.00   | -       | 32.53  | 21.52 | 2.77 | 27.83 |
| PK   | 590.66M | 30.97    | 46.00    | -15.03 | -1.25  | 3    | Vertical  | 0       | 1.00   | -       | 32.22  | 23.82 | 3.34 | 28.41 |

## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### 2437MHz\_Adapter1



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 30M          | 26.77             | 40.00             | -13.23         | -2.81          | 3           | Horizontal | 360            | 1.00          | -       | 29.58         | 23.32      | 0.86       | 26.99      |
| PK   | 90.14M       | 32.15             | 43.50             | -11.35         | -12.41         | 3           | Horizontal | 360            | 1.00          | -       | 44.56         | 14.08      | 1.35       | 27.84      |
| PK   | 109.54M      | 31.15             | 43.50             | -12.35         | -9.26          | 3           | Horizontal | 360            | 1.00          | -       | 40.41         | 17.04      | 1.48       | 27.78      |
| PK   | 255.04M      | 24.47             | 46.00             | -21.53         | -6.75          | 3           | Horizontal | 360            | 1.00          | -       | 31.22         | 18.10      | 2.17       | 27.02      |
| PK   | 315.18M      | 25.84             | 46.00             | -20.16         | -5.94          | 3           | Horizontal | 360            | 1.00          | -       | 31.78         | 18.78      | 2.42       | 27.14      |
| PK   | 573.2M       | 30.07             | 46.00             | -15.93         | -1.12          | 3           | Horizontal | 360            | 1.00          | -       | 31.19         | 23.98      | 3.27       | 28.37      |



**Summary**

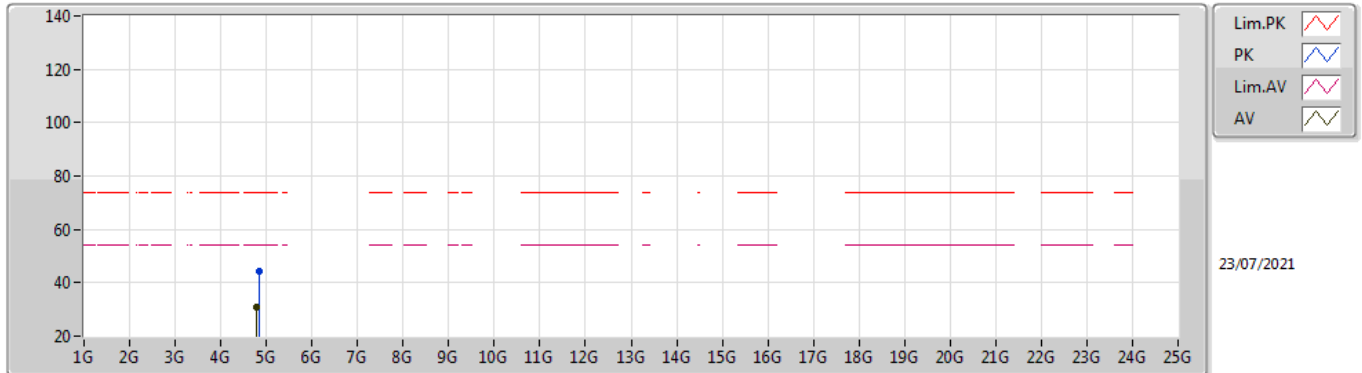
| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|-----------|----------------|---------------|----------|
| 2.4-2.4835GHz            | -      | -    | -            | -                 | -                 | -              | -           | -         | -              | -             | -        |
| 802.11b_Nss1,(1Mbps)_2TX | Pass   | AV   | 7.3802G      | 37.17             | 54.00             | -16.83         | 3           | Vertical  | 10             | 2.10          | -        |

**Result**

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11b_Nss1,(1Mbps)_2TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2412MHz                  | Pass   | AV   | 4.7742G      | 30.97             | 54.00             | -23.03         | 3           | Vertical   | 304            | 1.31          | -        |
| 2412MHz                  | Pass   | PK   | 4.8582G      | 44.07             | 74.00             | -29.93         | 3           | Vertical   | 304            | 1.31          | -        |
| 2412MHz                  | Pass   | AV   | 4.82736G     | 30.70             | 54.00             | -23.30         | 3           | Horizontal | 264            | 1.62          | -        |
| 2412MHz                  | Pass   | PK   | 4.82108G     | 44.37             | 74.00             | -29.63         | 3           | Horizontal | 264            | 1.62          | -        |
| 2437MHz                  | Pass   | AV   | 4.87232G     | 30.95             | 54.00             | -23.05         | 3           | Vertical   | 253            | 1.84          | -        |
| 2437MHz                  | Pass   | AV   | 7.30656G     | 36.86             | 54.00             | -17.14         | 3           | Vertical   | 108            | 2.17          | -        |
| 2437MHz                  | Pass   | PK   | 4.87672G     | 44.17             | 74.00             | -29.83         | 3           | Vertical   | 253            | 1.84          | -        |
| 2437MHz                  | Pass   | PK   | 7.3158G      | 49.97             | 74.00             | -24.03         | 3           | Vertical   | 108            | 2.17          | -        |
| 2437MHz                  | Pass   | AV   | 4.9112G      | 30.89             | 54.00             | -23.11         | 3           | Horizontal | 201            | 1.50          | -        |
| 2437MHz                  | Pass   | AV   | 7.309G       | 36.96             | 54.00             | -17.04         | 3           | Horizontal | 141            | 2.20          | -        |
| 2437MHz                  | Pass   | PK   | 4.8408G      | 43.47             | 74.00             | -30.53         | 3           | Horizontal | 201            | 1.50          | -        |
| 2437MHz                  | Pass   | PK   | 7.31196G     | 49.98             | 74.00             | -24.02         | 3           | Horizontal | 141            | 2.20          | -        |
| 2462MHz                  | Pass   | AV   | 4.9274G      | 31.05             | 54.00             | -22.95         | 3           | Vertical   | 274            | 1.52          | -        |
| 2462MHz                  | Pass   | AV   | 7.3802G      | 37.17             | 54.00             | -16.83         | 3           | Vertical   | 10             | 2.10          | -        |
| 2462MHz                  | Pass   | PK   | 4.9276G      | 43.65             | 74.00             | -30.35         | 3           | Vertical   | 274            | 1.52          | -        |
| 2462MHz                  | Pass   | PK   | 7.38956G     | 50.16             | 74.00             | -23.84         | 3           | Vertical   | 10             | 2.10          | -        |
| 2462MHz                  | Pass   | AV   | 4.92928G     | 30.94             | 54.00             | -23.06         | 3           | Horizontal | 328            | 1.34          | -        |
| 2462MHz                  | Pass   | AV   | 7.37724G     | 37.17             | 54.00             | -16.83         | 3           | Horizontal | 8              | 2.96          | -        |
| 2462MHz                  | Pass   | PK   | 4.92056G     | 44.62             | 74.00             | -29.38         | 3           | Horizontal | 328            | 1.34          | -        |
| 2462MHz                  | Pass   | PK   | 7.38G        | 50.19             | 74.00             | -23.81         | 3           | Horizontal | 8              | 2.96          | -        |

## 802.11b\_Nss1,(1Mbps)\_2TX

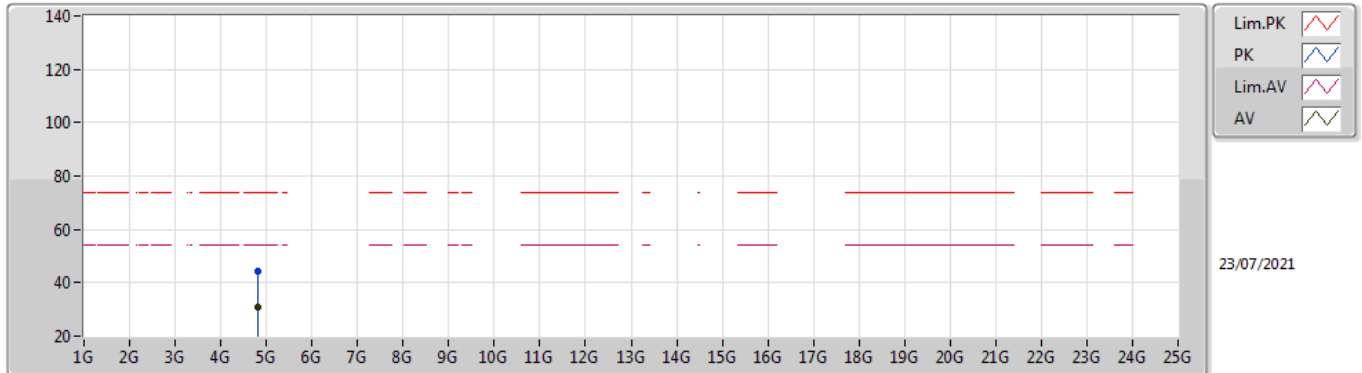
### 2412MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.7742G      | 30.97             | 54.00             | -23.03         | 5.77           | 3           | Vertical  | 304            | 1.31          | -       | 25.20         | 31.20      | 8.87       | 34.30      |
| PK   | 4.8582G      | 44.07             | 74.00             | -29.93         | 5.87           | 3           | Vertical  | 304            | 1.31          | -       | 38.20         | 31.20      | 8.94       | 34.27      |

## 802.11b\_Nss1,(1Mbps)\_2TX

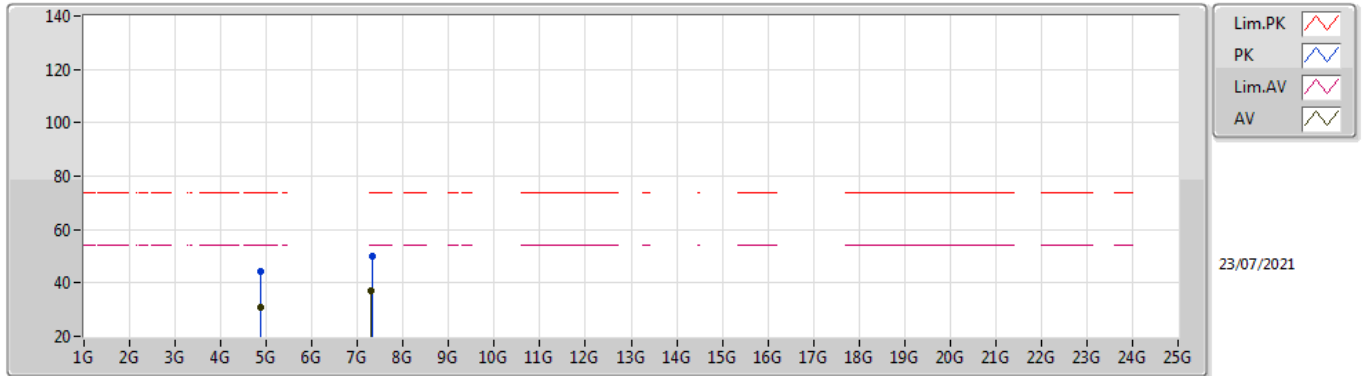
### 2412MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.82736G | 30.70    | 54.00    | -23.30 | 5.79   | 3    | Horizontal | 264     | 1.62   | -       | 24.91  | 31.15 | 8.92 | 34.28 |
| PK   | 4.82108G | 44.37    | 74.00    | -29.63 | 5.78   | 3    | Horizontal | 264     | 1.62   | -       | 38.59  | 31.14 | 8.92 | 34.28 |

# 802.11b\_Nss1,(1Mbps)\_2TX

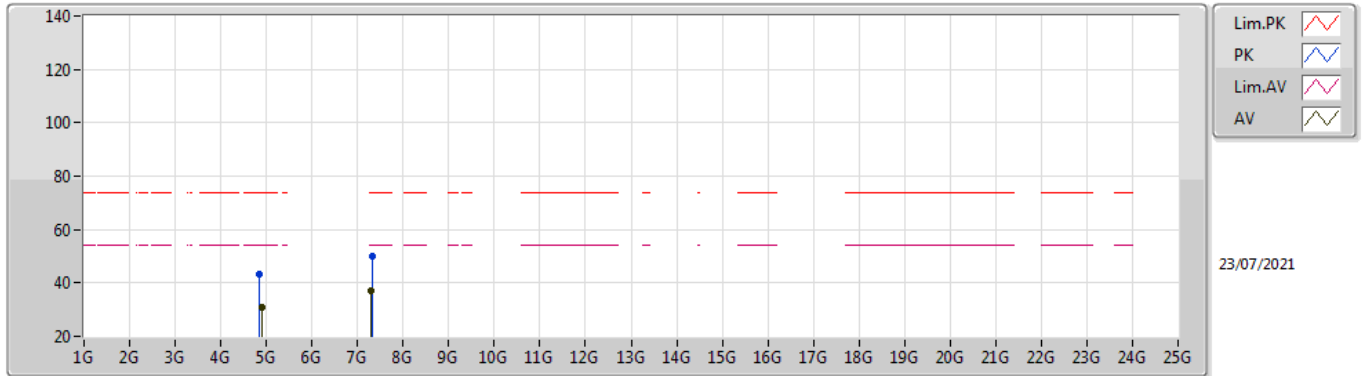
## 2437MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL    | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|-------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB)  | (dB)  |
| AV   | 4.87232G | 30.95    | 54.00    | -23.05 | 5.89   | 3    | Vertical  | 253     | 1.84   | -       | 25.06  | 31.20 | 8.95  | 34.26 |
| AV   | 7.30656G | 36.86    | 54.00    | -17.14 | 12.44  | 3    | Vertical  | 108     | 2.17   | -       | 24.42  | 36.39 | 10.62 | 34.57 |
| PK   | 4.87672G | 44.17    | 74.00    | -29.83 | 5.90   | 3    | Vertical  | 253     | 1.84   | -       | 38.27  | 31.20 | 8.96  | 34.26 |
| PK   | 7.3158G  | 49.97    | 74.00    | -24.03 | 12.43  | 3    | Vertical  | 108     | 2.17   | -       | 37.54  | 36.37 | 10.63 | 34.57 |

# 802.11b\_Nss1,(1Mbps)\_2TX

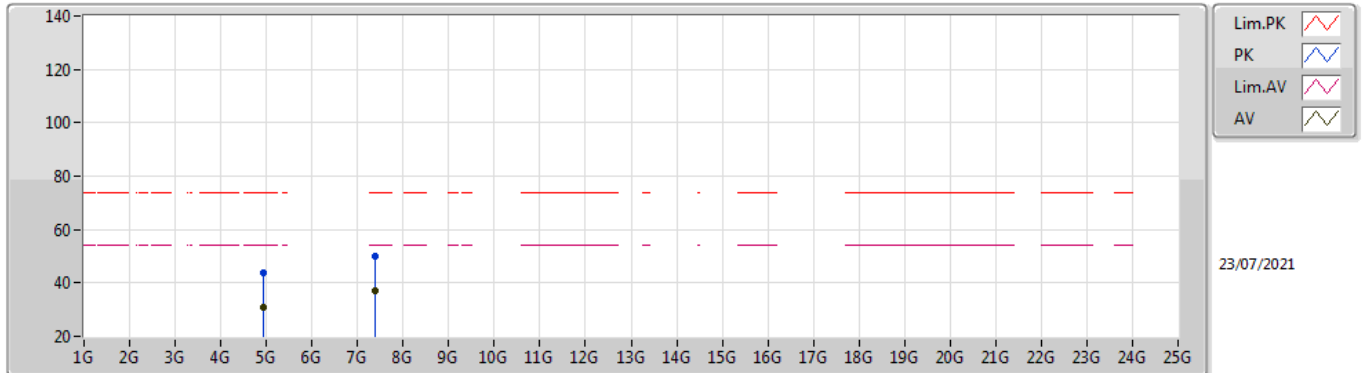
## 2437MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.9112G      | 30.89             | 54.00             | -23.11         | 5.97           | 3           | Horizontal | 201            | 1.50          | -       | 24.92         | 31.24      | 8.98       | 34.25      |
| AV   | 7.309G       | 36.96             | 54.00             | -17.04         | 12.43          | 3           | Horizontal | 141            | 2.20          | -       | 24.53         | 36.38      | 10.62      | 34.57      |
| PK   | 4.8408G      | 43.47             | 74.00             | -30.53         | 5.84           | 3           | Horizontal | 201            | 1.50          | -       | 37.63         | 31.18      | 8.93       | 34.27      |
| PK   | 7.31196G     | 49.98             | 74.00             | -24.02         | 12.43          | 3           | Horizontal | 141            | 2.20          | -       | 37.55         | 36.38      | 10.62      | 34.57      |

# 802.11b\_Nss1,(1Mbps)\_2TX

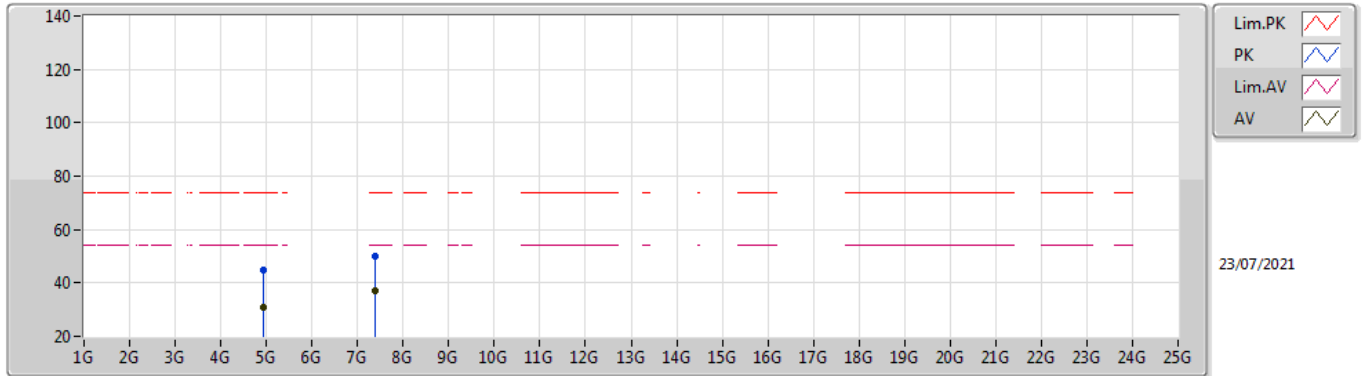
## 2462MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL    | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|-------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB)  | (dB)  |
| AV   | 4.9274G  | 31.05    | 54.00    | -22.95 | 6.07   | 3    | Vertical  | 274     | 1.52   | -       | 24.98  | 31.31 | 9.00  | 34.24 |
| AV   | 7.3802G  | 37.17    | 54.00    | -16.83 | 12.35  | 3    | Vertical  | 10      | 2.10   | -       | 24.82  | 36.24 | 10.69 | 34.58 |
| PK   | 4.9276G  | 43.65    | 74.00    | -30.35 | 6.07   | 3    | Vertical  | 274     | 1.52   | -       | 37.58  | 31.31 | 9.00  | 34.24 |
| PK   | 7.38956G | 50.16    | 74.00    | -23.84 | 12.34  | 3    | Vertical  | 10      | 2.10   | -       | 37.82  | 36.22 | 10.70 | 34.58 |

# 802.11b\_Nss1,(1Mbps)\_2TX

## 2462MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL    | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|-------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB)  | (dB)  |
| AV   | 4.92928G | 30.94    | 54.00    | -23.06 | 6.08   | 3    | Horizontal | 328     | 1.34   | -       | 24.86  | 31.32 | 9.00  | 34.24 |
| AV   | 7.37724G | 37.17    | 54.00    | -16.83 | 12.36  | 3    | Horizontal | 8       | 2.96   | -       | 24.81  | 36.25 | 10.69 | 34.58 |
| PK   | 4.92056G | 44.62    | 74.00    | -29.38 | 6.02   | 3    | Horizontal | 328     | 1.34   | -       | 38.60  | 31.28 | 8.99  | 34.25 |
| PK   | 7.38G    | 50.19    | 74.00    | -23.81 | 12.35  | 3    | Horizontal | 8       | 2.96   | -       | 37.84  | 36.24 | 10.69 | 34.58 |

**Summary**

| Mode                           | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 2.4-2.4835GHz                  | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 802.11b_Nss1,(1Mbps)_2TX       | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -48.98      | -53.38      | -47.63        | -42.62        | -41.20         | -1.42          |
| 802.11g_Nss1,(6Mbps)_2TX       | Pass   | 2.36G           | 2.4G           | PK   | 2.39G        | 5.01        | -28.66      | -30.11      | -26.31        | -21.30        | -21.20         | -0.10          |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48406G     | 5.01        | -53.34      | -49.25      | -47.82        | -42.81        | -41.20         | -1.61          |

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

**Result**

| Mode                           | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 802.11b_Nss1,(1Mbps)_2TX       | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.38984G     | 5.01        | -61.34      | -60.80      | -58.05        | -53.04        | -41.20         | -11.84         |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -60.03      | -59.67      | -56.84        | -51.83        | -41.20         | -10.63         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48366G     | 5.01        | -59.95      | -59.62      | -56.77        | -51.76        | -41.20         | -10.56         |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.38976G     | 5.01        | -50.84      | -50.80      | -47.81        | -42.80        | -21.20         | -21.60         |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -48.85      | -50.26      | -46.49        | -41.48        | -21.20         | -20.28         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48542G     | 5.01        | -49.58      | -51.10      | -47.26        | -42.25        | -21.20         | -21.05         |
| 2437MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.38992G     | 5.01        | -63.29      | -62.61      | -59.93        | -54.92        | -41.20         | -13.72         |
| 2437MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -58.45      | -57.09      | -54.71        | -49.70        | -41.20         | -8.50          |
| 2437MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48374G     | 5.01        | -57.85      | -56.04      | -53.84        | -48.83        | -41.20         | -7.63          |
| 2437MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.39G        | 5.01        | -54.23      | -52.83      | -50.46        | -45.45        | -21.20         | -24.25         |
| 2437MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -49.05      | -47.45      | -45.17        | -40.16        | -21.20         | -18.96         |
| 2437MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48446G     | 5.01        | -48.44      | -46.86      | -44.57        | -39.56        | -21.20         | -18.36         |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.39G        | 5.01        | -64.07      | -64.42      | -61.23        | -56.22        | -41.20         | -15.02         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -48.98      | -53.38      | -47.63        | -42.62        | -41.20         | -1.42          |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48366G     | 5.01        | -49.33      | -53.92      | -48.03        | -43.02        | -41.20         | -1.82          |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.39G        | 5.01        | -54.21      | -54.71      | -51.44        | -46.43        | -21.20         | -25.23         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -42.25      | -45.06      | -40.42        | -35.41        | -21.20         | -14.21         |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48374G     | 5.01        | -42.29      | -44.35      | -40.19        | -35.18        | -21.20         | -13.98         |
| 802.11g_Nss1,(6Mbps)_2TX       | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.38992G     | 5.01        | -52.31      | -51.34      | -48.79        | -43.78        | -41.20         | -2.58          |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -59.27      | -59.25      | -56.25        | -51.24        | -41.20         | -10.04         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.4835G      | 5.01        | -58.84      | -58.65      | -55.73        | -50.72        | -41.20         | -9.52          |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.39G        | 5.01        | -28.66      | -30.11      | -26.31        | -21.30        | -21.20         | -0.10          |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -50.04      | -48.95      | -46.45        | -41.44        | -21.20         | -20.24         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48366G     | 5.01        | -47.71      | -49.50      | -45.50        | -40.49        | -21.20         | -19.29         |
| 2437MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.38984G     | 5.01        | -61.65      | -59.24      | -57.27        | -52.26        | -41.20         | -11.06         |
| 2437MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -55.46      | -52.79      | -50.91        | -45.90        | -41.20         | -4.70          |
| 2437MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48398G     | 5.01        | -55.61      | -53.72      | -51.55        | -46.54        | -41.20         | -5.34          |
| 2437MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.39G        | 5.01        | -44.71      | -48.94      | -43.32        | -38.31        | -21.20         | -17.11         |
| 2437MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -46.24      | -38.14      | -37.51        | -32.50        | -21.20         | -11.30         |
| 2437MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48462G     | 5.01        | -45.83      | -37.81      | -37.17        | -32.16        | -21.20         | -10.96         |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.39G        | 5.01        | -64.52      | -63.74      | -61.10        | -56.09        | -41.20         | -14.89         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -53.75      | -49.15      | -47.86        | -42.85        | -41.20         | -1.65          |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48358G     | 5.01        | -51.12      | -50.04      | -47.54        | -42.53        | -41.20         | -1.33          |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.38976G     | 5.01        | -53.85      | -54.99      | -51.37        | -46.36        | -21.20         | -25.16         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -36.33      | -32.78      | -31.19        | -26.18        | -21.20         | -4.98          |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48406G     | 5.01        | -28.85      | -34.40      | -27.78        | -22.77        | -21.20         | -1.57          |
| 802.11ax_HEW20_Nss1,(MCS0)_2TX | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.39G        | 5.01        | -52.46      | -50.20      | -48.17        | -43.16        | -41.20         | -1.96          |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -60.22      | -59.87      | -57.03        | -52.02        | -41.20         | -10.82         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48406G     | 5.01        | -59.32      | -59.38      | -56.34        | -51.33        | -41.20         | -10.13         |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.39G        | 5.01        | -32.25      | -33.16      | -29.67        | -24.66        | -21.20         | -3.46          |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -50.39      | -50.64      | -47.50        | -42.49        | -21.20         | -21.29         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48406G     | 5.01        | -49.35      | -50.05      | -46.68        | -41.67        | -21.20         | -20.47         |
| 2437MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.39G        | 5.01        | -60.43      | -58.69      | -56.46        | -51.45        | -41.20         | -10.25         |
| 2437MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -55.10      | -54.76      | -51.92        | -46.91        | -41.20         | -5.71          |
| 2437MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48382G     | 5.01        | -54.19      | -54.21      | -51.19        | -46.18        | -41.20         | -4.98          |
| 2437MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.39G        | 5.01        | -42.61      | -48.07      | -41.52        | -36.51        | -21.20         | -15.31         |
| 2437MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -41.46      | -42.76      | -39.05        | -34.04        | -21.20         | -12.84         |
| 2437MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.4835G      | 5.01        | -42.08      | -39.50      | -37.59        | -32.58        | -21.20         | -11.38         |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.38968G     | 5.01        | -65.22      | -63.93      | -61.52        | -56.51        | -41.20         | -15.31         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -53.18      | -49.54      | -47.98        | -42.97        | -41.20         | -1.77          |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48406G     | 5.01        | -53.34      | -49.25      | -47.82        | -42.81        | -41.20         | -1.61          |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.38984G     | 5.01        | -55.58      | -53.79      | -51.58        | -46.57        | -21.20         | -25.37         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -35.44      | -32.92      | -30.99        | -25.98        | -21.20         | -4.78          |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48414G     | 5.01        | -30.82      | -33.10      | -28.80        | -23.79        | -21.20         | -2.59          |

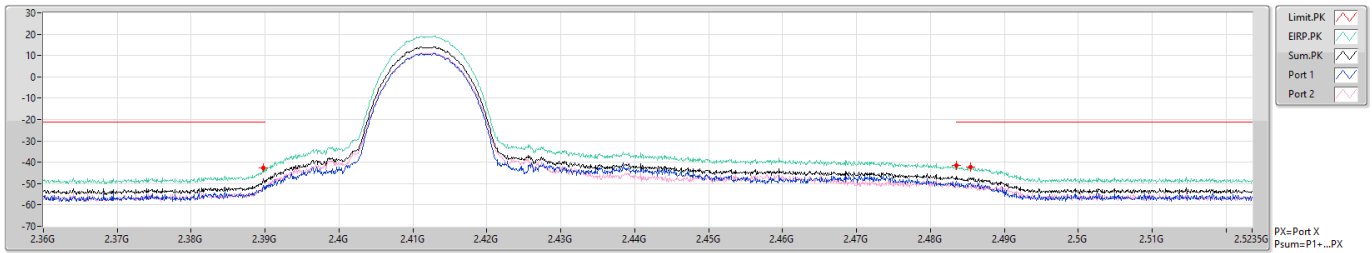
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

802.11b\_Nss1,(1Mbps)\_2TX

2412MHz

CSE [PK]

27/07/2021



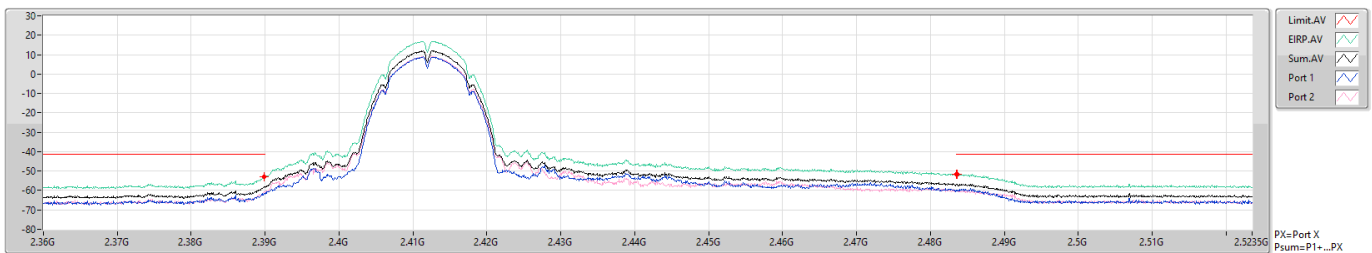
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.38976G | -42.80    | -21.20     | -21.60     | 5.01   | 0.00    | -47.81    | -50.84  | -50.80  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -41.48    | -21.20     | -20.28     | 5.01   | 0.00    | -46.49    | -48.85  | -50.26  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.48542G | -42.25    | -21.20     | -21.05     | 5.01   | 0.00    | -47.26    | -49.58  | -51.10  |

802.11b\_Nss1,(1Mbps)\_2TX

2412MHz

CSE [AV]

27/07/2021



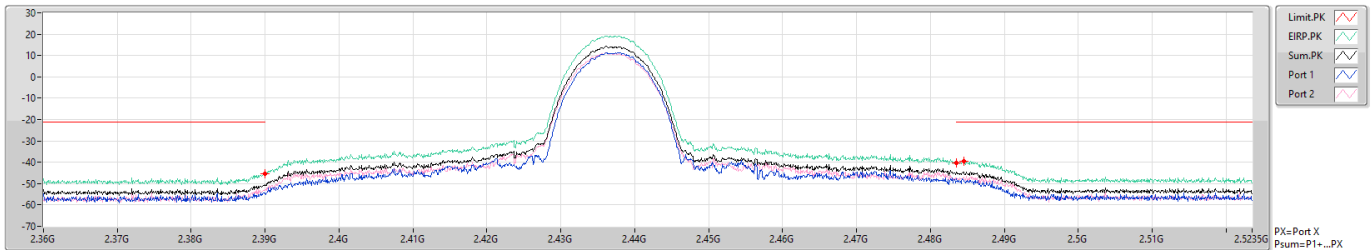
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.38984G | -53.04    | -41.20     | -11.84     | 5.01   | 0.00    | -58.05    | -61.34  | -60.80  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -51.83    | -41.20     | -10.63     | 5.01   | 0.00    | -56.84    | -60.03  | -59.67  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.48366G | -51.76    | -41.20     | -10.56     | 5.01   | 0.00    | -56.77    | -59.95  | -59.62  |

802.11b\_Nss1,(1Mbps)\_2TX

2437MHz

CSE [PK]

27/07/2021



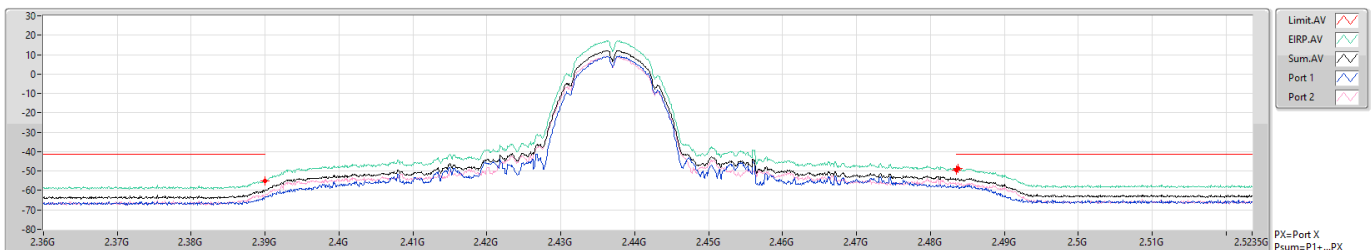
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.39G    | -45.45    | -21.20     | -24.25     | 5.01   | 0.00    | -50.46    | -54.23  | -52.83  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -40.16    | -21.20     | -18.96     | 5.01   | 0.00    | -45.17    | -49.05  | -47.45  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.48446G | -39.56    | -21.20     | -18.36     | 5.01   | 0.00    | -44.57    | -48.44  | -46.86  |

802.11b\_Nss1,(1Mbps)\_2TX

2437MHz

CSE [AV]

27/07/2021



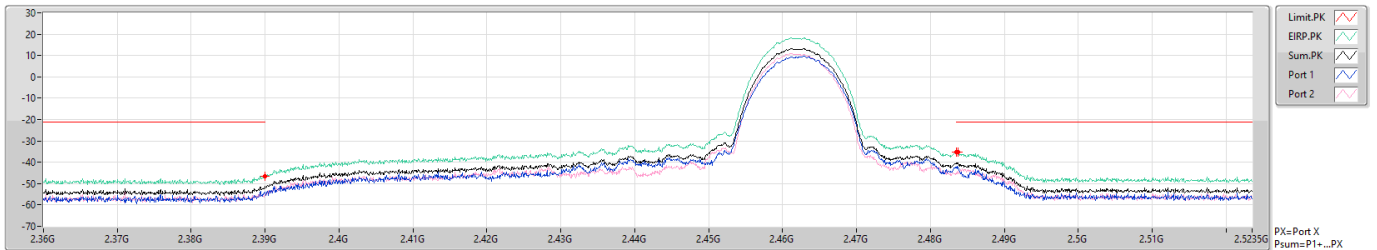
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.38992G | -54.92    | -41.20     | -13.72     | 5.01   | 0.00    | -59.93    | -63.29  | -62.61  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -49.70    | -41.20     | -8.50      | 5.01   | 0.00    | -54.71    | -58.45  | -57.09  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.48374G | -48.83    | -41.20     | -7.63      | 5.01   | 0.00    | -53.84    | -57.85  | -56.04  |

## 802.11b\_Nss1,(1Mbps)\_2TX

2462MHz

CSE [PK]

27/07/2021



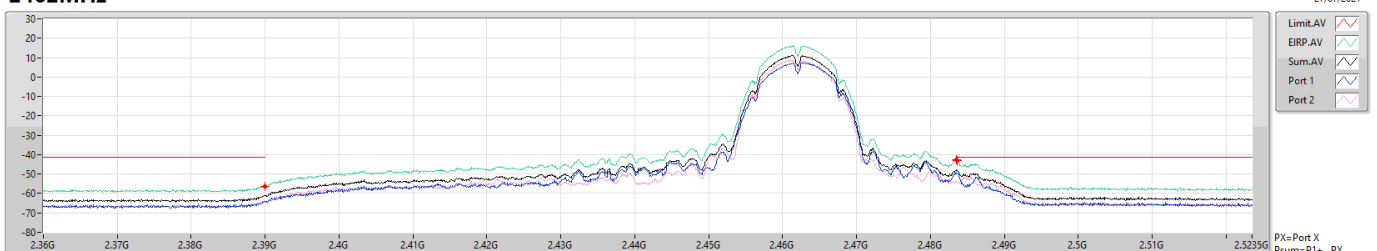
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.39G    | -46.43    | -21.20     | -25.23     | 5.01   | 0.00    | -51.44    | -54.21  | -54.71  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -35.41    | -21.20     | -14.21     | 5.01   | 0.00    | -40.42    | -42.25  | -45.06  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.48374G | -35.18    | -21.20     | -13.98     | 5.01   | 0.00    | -40.19    | -42.29  | -44.35  |

## 802.11b\_Nss1,(1Mbps)\_2TX

2462MHz

CSE [AV]

27/07/2021



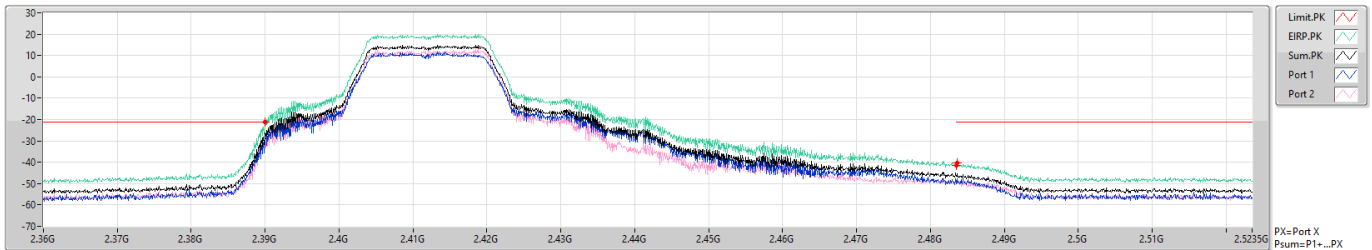
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.39G    | -56.22    | -41.20     | -15.02     | 5.01   | 0.00    | -61.23    | -64.07  | -64.42  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -42.62    | -41.20     | -1.42      | 5.01   | 0.00    | -47.63    | -48.98  | -53.38  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.48366G | -43.02    | -41.20     | -1.82      | 5.01   | 0.00    | -48.03    | -49.33  | -53.92  |

802.11g\_Nss1,(6Mbps)\_2TX

2412MHz

CSE [PK]

26/07/2021



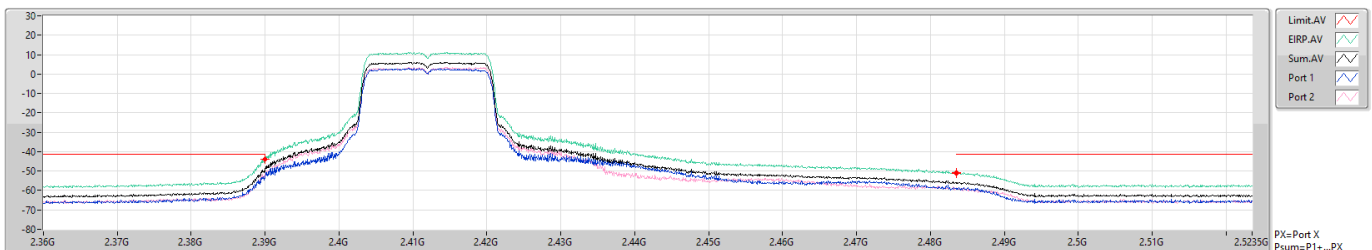
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.39G    | -21.30    | -21.20     | -0.10      | 5.01   | 0.00    | -26.31    | -28.66  | -30.11  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -41.44    | -21.20     | -20.24     | 5.01   | 0.00    | -46.45    | -50.04  | -48.95  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.4836G  | -40.49    | -21.20     | -19.29     | 5.01   | 0.00    | -45.50    | -47.71  | -49.50  |

802.11g\_Nss1,(6Mbps)\_2TX

2412MHz

CSE [AV]

26/07/2021



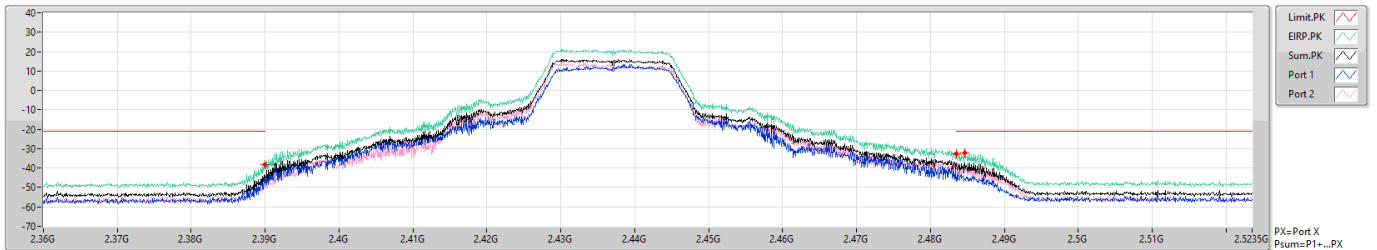
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.38992G | -43.78    | -41.20     | -2.58      | 5.01   | 0.00    | -48.79    | -52.31  | -51.34  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -51.24    | -41.20     | -10.04     | 5.01   | 0.00    | -56.25    | -59.27  | -59.25  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.4835G  | -50.72    | -41.20     | -9.52      | 5.01   | 0.00    | -55.73    | -58.84  | -58.65  |

## 802.11g\_Nss1,(6Mbps)\_2TX

2437MHz

CSE [PK]

26/07/2021



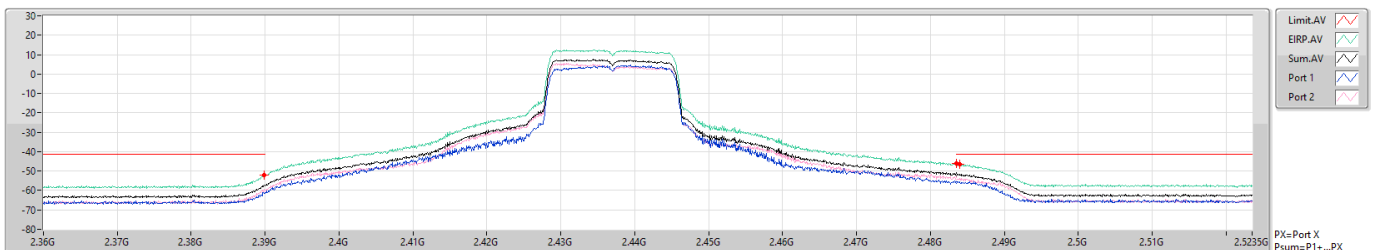
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.39G    | -38.31    | -21.20     | -17.11     | 5.01   | 0.00    | -43.32    | -44.71  | -48.94  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -32.50    | -21.20     | -11.30     | 5.01   | 0.00    | -37.51    | -46.24  | -38.14  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.48462G | -32.16    | -21.20     | -10.96     | 5.01   | 0.00    | -37.17    | -45.83  | -37.81  |

## 802.11g\_Nss1,(6Mbps)\_2TX

2437MHz

CSE [AV]

26/07/2021

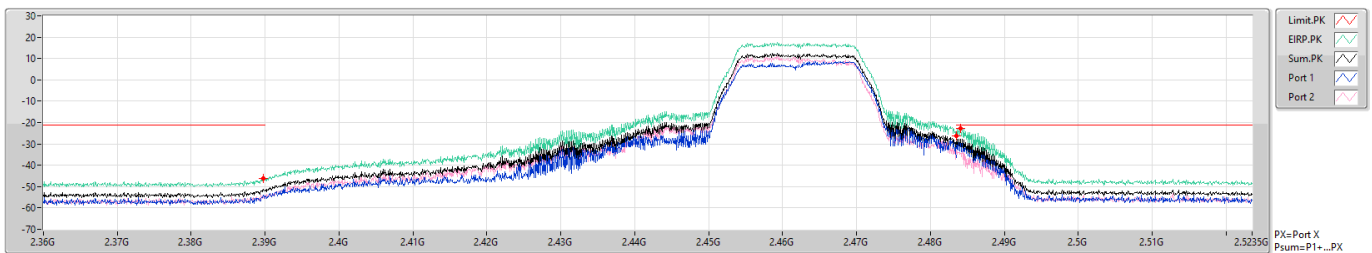


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.38994G | -52.26    | -41.20     | -11.06     | 5.01   | 0.00    | -57.27    | -61.65  | -59.24  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -45.90    | -41.20     | -4.70      | 5.01   | 0.00    | -50.91    | -55.46  | -52.79  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.48398G | -46.54    | -41.20     | -5.34      | 5.01   | 0.00    | -51.55    | -55.61  | -53.72  |

## 802.11g\_Nss1,(6Mbps)\_2TX

2462MHz

CSE [PK]

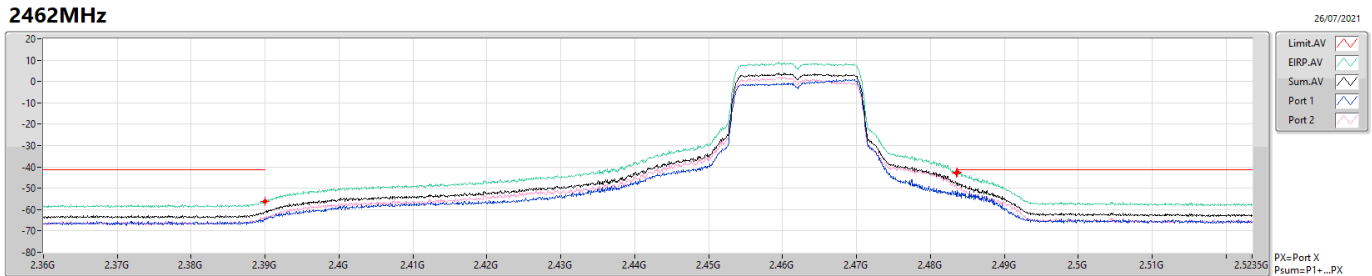


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.38976G | -46.36    | -21.20     | -25.16     | 5.01   | 0.00    | -51.37    | -53.85  | -54.99  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -26.18    | -21.20     | -4.98      | 5.01   | 0.00    | -31.19    | -36.33  | -32.78  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.48406G | -22.77    | -21.20     | -1.57      | 5.01   | 0.00    | -27.78    | -28.85  | -34.40  |

## 802.11g\_Nss1,(6Mbps)\_2TX

2462MHz

CSE [AV]

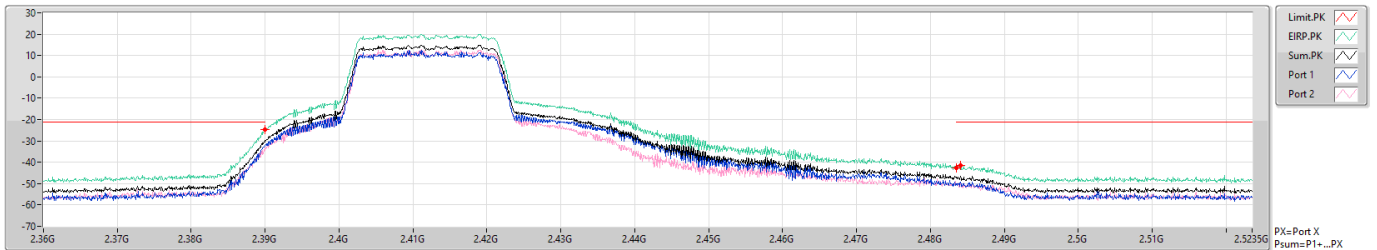


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.39G    | -56.09    | -41.20     | -14.89     | 5.01   | 0.00    | -61.10    | -64.52  | -63.74  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -42.85    | -41.20     | -1.65      | 5.01   | 0.00    | -47.86    | -53.75  | -49.15  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.48358G | -42.53    | -41.20     | -1.33      | 5.01   | 0.00    | -47.54    | -51.12  | -50.04  |

## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

2412MHz

CSE [PK]

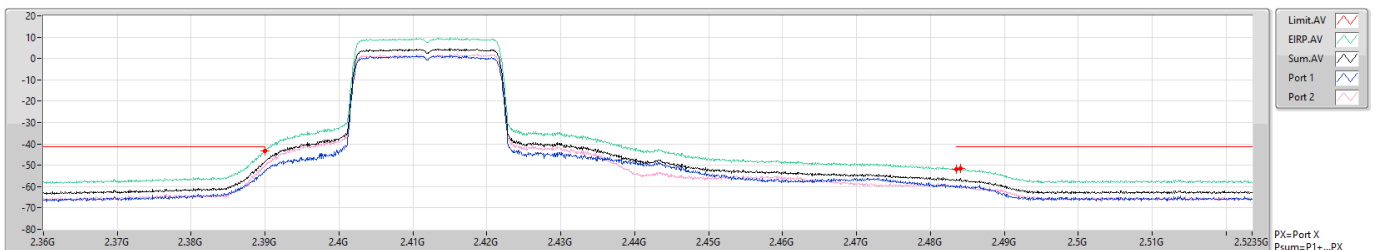


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.39G    | -24.66    | -21.20     | -3.46      | 5.01   | 0.00    | -29.67    | -32.25  | -33.16  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -42.49    | -21.20     | -21.29     | 5.01   | 0.00    | -47.50    | -50.39  | -50.64  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.48406G | -41.67    | -21.20     | -20.47     | 5.01   | 0.00    | -46.68    | -49.35  | -50.05  |

## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

2412MHz

CSE [AV]



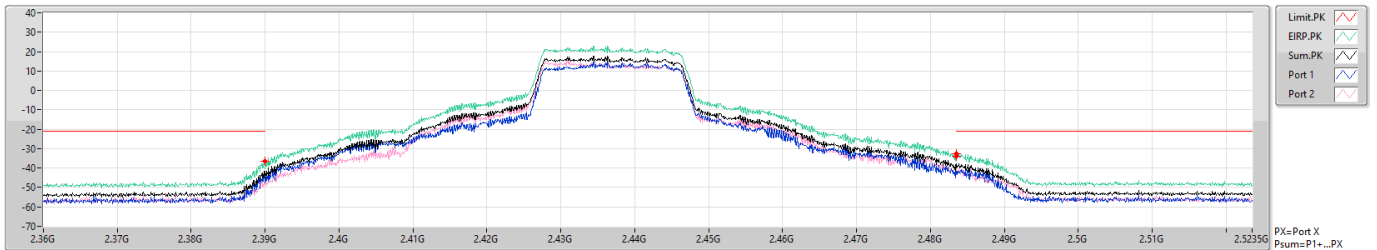
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.39G    | -43.16    | -41.20     | -1.96      | 5.01   | 0.00    | -48.17    | -52.46  | -50.20  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -52.02    | -41.20     | -10.82     | 5.01   | 0.00    | -57.03    | -60.22  | -59.87  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.48406G | -51.33    | -41.20     | -10.13     | 5.01   | 0.00    | -56.34    | -59.32  | -59.38  |

802.11ax HEW20\_Nss1,(MCS0)\_2TX

2437MHz

CSE [PK]

26/07/2021



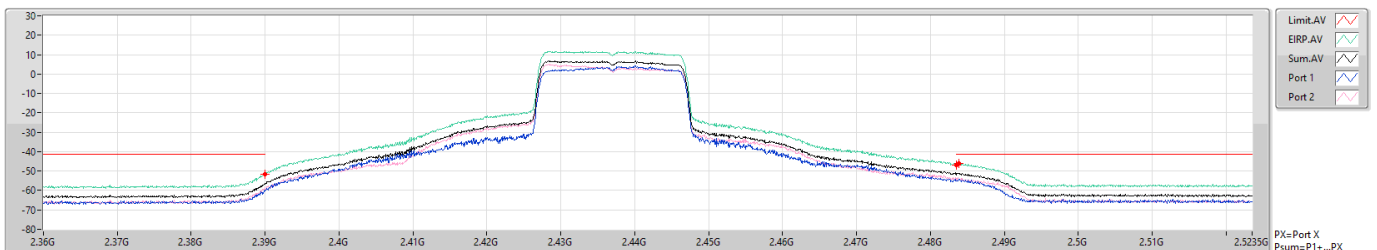
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.39G    | -36.51    | -21.20     | -15.31     | 5.01   | 0.00    | -41.52    | -42.61  | -48.07  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -34.04    | -21.20     | -12.84     | 5.01   | 0.00    | -39.05    | -41.46  | -42.76  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.4835G  | -32.58    | -21.20     | -11.38     | 5.01   | 0.00    | -37.59    | -42.08  | -39.50  |

802.11ax HEW20\_Nss1,(MCS0)\_2TX

2437MHz

CSE [AV]

26/07/2021

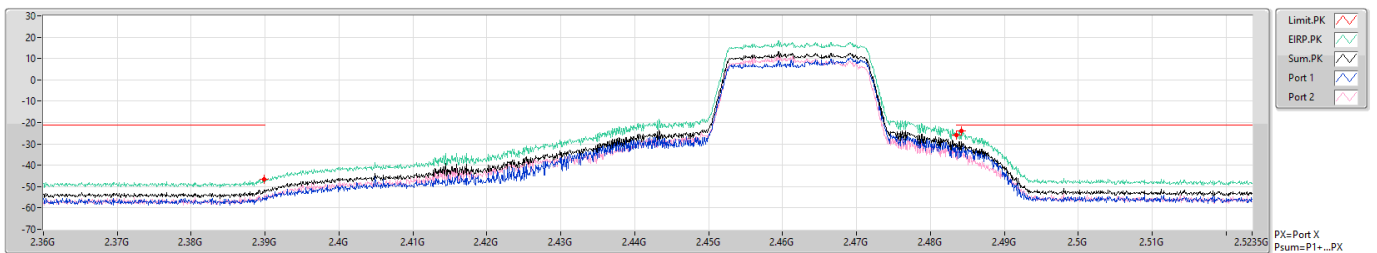


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.39G    | -51.45    | -41.20     | -10.25     | 5.01   | 0.00    | -56.46    | -60.43  | -58.69  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -46.91    | -41.20     | -5.71      | 5.01   | 0.00    | -51.92    | -55.10  | -54.76  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.48382G | -46.18    | -41.20     | -4.98      | 5.01   | 0.00    | -51.19    | -54.19  | -54.21  |

802.11ax HEW20\_Nss1,(MCS0)\_2TX

2462MHz

CSE [PK]

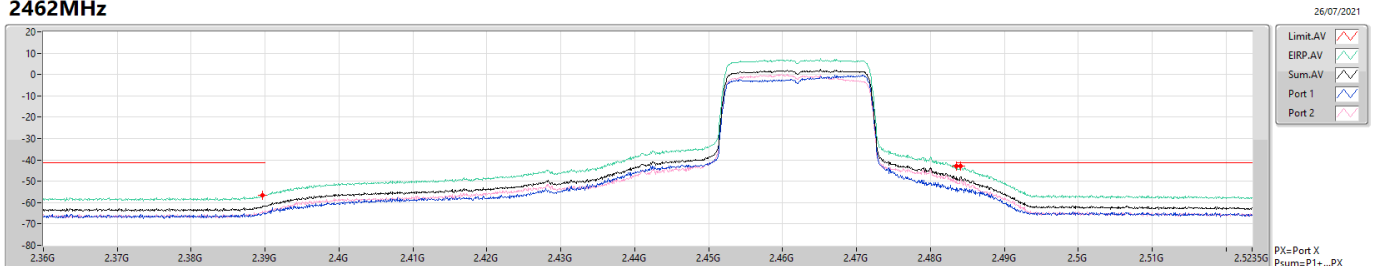


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.38994G | -46.57    | -21.20     | -25.37     | 5.01   | 0.00    | -51.58    | -55.58  | -53.79  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -25.98    | -21.20     | -4.78      | 5.01   | 0.00    | -30.99    | -35.44  | -32.92  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.48414G | -23.79    | -21.20     | -2.59      | 5.01   | 0.00    | -28.80    | -30.82  | -33.10  |

802.11ax HEW20\_Nss1,(MCS0)\_2TX

2462MHz

CSE [AV]



| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.38998G | -56.51    | -41.20     | -15.31     | 5.01   | 0.00    | -61.52    | -65.22  | -63.93  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -42.97    | -41.20     | -1.77      | 5.01   | 0.00    | -47.98    | -53.18  | -49.54  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.48406G | -42.81    | -41.20     | -1.61      | 5.01   | 0.00    | -47.82    | -53.34  | -49.25  |

**Summary**

| Mode                           | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 2.4-2.4835GHz                  | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 802.11b_Nss1,(1Mbps)_2TX       | Pass   | 7.5G            | 25G            | AV   | 19.83531G    | 5.01        | -65.11      | -63.72      | -61.35        | -56.34        | -41.20         | -15.14         |
| 802.11g_Nss1,(6Mbps)_2TX       | Pass   | 7.5G            | 25G            | AV   | 19.84406G    | 5.01        | -64.51      | -64.73      | -61.61        | -56.60        | -41.20         | -15.40         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | Pass   | 7.5G            | 25G            | AV   | 19.85281G    | 5.01        | -63.83      | -64.97      | -61.35        | -56.34        | -41.20         | -15.14         |

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

## Result

| Mode                     | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 802.11b_Nss1,(1Mbps)_2TX | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 2412MHz                  | Pass   | 1G              | 2.36G          | AV   | 2.28639G     | 5.01        | -76.16      | -75.73      | -72.93        | -67.92        | -41.20         | -26.72         |
| 2412MHz                  | Pass   | 2.36G           | 2.4G           | AV   | 2.37176G     | 5.01        | -76.01      | -75.91      | -72.95        | -67.94        | -41.20         | -26.74         |
| 2412MHz                  | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -76.23      | -75.46      | -72.82        | -67.81        | -41.20         | -26.61         |
| 2412MHz                  | Pass   | 2.4835G         | 2.5235G        | AV   | 2.51742G     | 5.01        | -74.85      | -75.78      | -72.28        | -67.27        | -41.20         | -26.07         |
| 2412MHz                  | Pass   | 2.5235G         | 2.9G           | AV   | 2.6693G      | 5.01        | -76.32      | -74.24      | -72.15        | -67.14        | -41.20         | -25.94         |
| 2412MHz                  | Pass   | 2.9G            | 7.5G           | AV   | 4.82395G     | 5.01        | -66.97      | -72.82      | -65.97        | -60.96        | -41.20         | -19.76         |
| 2412MHz                  | Pass   | 7.5G            | 25G            | AV   | 19.8375G     | 5.01        | -64.94      | -64.64      | -61.78        | -56.77        | -41.20         | -15.57         |
| 2412MHz                  | Pass   | 1G              | 2.36G          | PK   | 2.34657G     | 5.01        | -65.86      | -69.00      | -64.14        | -59.13        | -21.20         | -37.93         |
| 2412MHz                  | Pass   | 2.36G           | 2.4G           | PK   | 2.37896G     | 5.01        | -65.27      | -66.79      | -62.95        | -57.94        | -21.20         | -36.74         |
| 2412MHz                  | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -65.65      | -66.87      | -63.21        | -58.20        | -21.20         | -37.00         |
| 2412MHz                  | Pass   | 2.4835G         | 2.5235G        | PK   | 2.52062G     | 5.01        | -65.10      | -64.91      | -61.99        | -56.98        | -21.20         | -35.78         |
| 2412MHz                  | Pass   | 2.5235G         | 2.9G           | PK   | 2.79053G     | 5.01        | -65.35      | -65.47      | -62.40        | -57.39        | -21.20         | -36.19         |
| 2412MHz                  | Pass   | 2.9G            | 7.5G           | PK   | 4.82395G     | 5.01        | -60.92      | -65.83      | -59.70        | -54.69        | -21.20         | -33.49         |
| 2412MHz                  | Pass   | 2.9G            | 7.5G           | PK   | 7.3367G      | 5.01        | -60.83      | -61.45      | -58.12        | -53.11        | -21.20         | -31.91         |
| 2412MHz                  | Pass   | 7.5G            | 25G            | PK   | 15.75781G    | 5.01        | -55.07      | -56.42      | -52.68        | -47.67        | -21.20         | -26.47         |
| 2437MHz                  | Pass   | 1G              | 2.36G          | AV   | 2.26599G     | 5.01        | -75.48      | -77.42      | -73.33        | -68.32        | -41.20         | -27.12         |
| 2437MHz                  | Pass   | 2.36G           | 2.4G           | AV   | 2.36984G     | 5.01        | -75.87      | -75.82      | -72.83        | -67.82        | -41.20         | -26.62         |
| 2437MHz                  | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -76.14      | -75.54      | -72.82        | -67.81        | -41.20         | -26.61         |
| 2437MHz                  | Pass   | 2.4835G         | 2.5235G        | AV   | 2.49622G     | 5.01        | -74.70      | -76.22      | -72.38        | -67.37        | -41.20         | -26.17         |
| 2437MHz                  | Pass   | 2.5235G         | 2.9G           | AV   | 2.84625G     | 5.01        | -75.77      | -75.13      | -72.43        | -67.42        | -41.20         | -26.22         |
| 2437MHz                  | Pass   | 2.9G            | 7.5G           | AV   | 4.87398G     | 5.01        | -69.54      | -72.82      | -67.87        | -62.86        | -41.20         | -21.66         |
| 2437MHz                  | Pass   | 2.9G            | 7.5G           | AV   | 7.31025G     | 5.01        | -70.42      | -68.18      | -66.15        | -61.14        | -41.20         | -19.94         |
| 2437MHz                  | Pass   | 7.5G            | 25G            | AV   | 19.8375G     | 5.01        | -64.61      | -64.66      | -61.62        | -56.61        | -41.20         | -15.41         |
| 2437MHz                  | Pass   | 1G              | 2.36G          | PK   | 2.29557G     | 5.01        | -67.11      | -66.88      | -63.98        | -58.97        | -21.20         | -37.77         |
| 2437MHz                  | Pass   | 2.36G           | 2.4G           | PK   | 2.38112G     | 5.01        | -66.59      | -65.35      | -62.92        | -57.91        | -21.20         | -36.71         |
| 2437MHz                  | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -66.76      | -66.86      | -63.80        | -58.79        | -21.20         | -37.59         |
| 2437MHz                  | Pass   | 2.4835G         | 2.5235G        | PK   | 2.51614G     | 5.01        | -64.89      | -64.74      | -61.80        | -56.79        | -21.20         | -35.59         |
| 2437MHz                  | Pass   | 2.5235G         | 2.9G           | PK   | 2.86875G     | 5.01        | -66.24      | -63.68      | -61.76        | -56.75        | -21.20         | -35.55         |
| 2437MHz                  | Pass   | 2.9G            | 7.5G           | PK   | 4.88088G     | 5.01        | -64.29      | -63.28      | -60.75        | -55.74        | -21.20         | -34.54         |
| 2437MHz                  | Pass   | 2.9G            | 7.5G           | PK   | 7.29645G     | 5.01        | -62.80      | -58.20      | -56.91        | -51.90        | -21.20         | -30.70         |
| 2437MHz                  | Pass   | 7.5G            | 25G            | PK   | 19.84844G    | 5.01        | -55.41      | -54.49      | -51.92        | -46.91        | -21.20         | -25.71         |
| 2462MHz                  | Pass   | 1G              | 2.36G          | AV   | 2.34028G     | 5.01        | -76.58      | -75.83      | -73.18        | -68.17        | -41.20         | -26.97         |
| 2462MHz                  | Pass   | 2.36G           | 2.4G           | AV   | 2.37216G     | 5.01        | -75.78      | -75.91      | -72.83        | -67.82        | -41.20         | -26.62         |
| 2462MHz                  | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -76.23      | -76.50      | -73.35        | -68.34        | -41.20         | -27.14         |
| 2462MHz                  | Pass   | 2.4835G         | 2.5235G        | AV   | 2.51694G     | 5.01        | -75.01      | -75.52      | -72.25        | -67.24        | -41.20         | -26.04         |
| 2462MHz                  | Pass   | 2.5235G         | 2.9G           | AV   | 2.80343G     | 5.01        | -74.80      | -76.27      | -72.46        | -67.45        | -41.20         | -26.25         |
| 2462MHz                  | Pass   | 2.9G            | 7.5G           | AV   | 4.924G       | 5.01        | -68.79      | -72.73      | -67.32        | -62.31        | -41.20         | -21.11         |
| 2462MHz                  | Pass   | 2.9G            | 7.5G           | AV   | 7.38443G     | 5.01        | -71.89      | -66.23      | -65.19        | -60.18        | -41.20         | -18.98         |
| 2462MHz                  | Pass   | 7.5G            | 25G            | AV   | 19.83531G    | 5.01        | -65.11      | -63.72      | -61.35        | -56.34        | -41.20         | -15.14         |
| 2462MHz                  | Pass   | 1G              | 2.36G          | PK   | 2.29965G     | 5.01        | -66.42      | -67.01      | -63.69        | -58.68        | -21.20         | -37.48         |
| 2462MHz                  | Pass   | 2.36G           | 2.4G           | PK   | 2.38768G     | 5.01        | -66.85      | -64.43      | -62.46        | -57.45        | -21.20         | -36.25         |
| 2462MHz                  | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -65.16      | -67.97      | -63.33        | -58.32        | -21.20         | -37.12         |
| 2462MHz                  | Pass   | 2.4835G         | 2.5235G        | PK   | 2.49398G     | 5.01        | -63.87      | -66.85      | -62.10        | -57.09        | -21.20         | -35.89         |
| 2462MHz                  | Pass   | 2.5235G         | 2.9G           | PK   | 2.68652G     | 5.01        | -66.46      | -64.73      | -62.50        | -57.49        | -21.20         | -36.29         |
| 2462MHz                  | Pass   | 2.9G            | 7.5G           | PK   | 4.9286G      | 5.01        | -62.04      | -64.29      | -60.01        | -55.00        | -21.20         | -33.80         |
| 2462MHz                  | Pass   | 2.9G            | 7.5G           | PK   | 7.385G       | 5.01        | -62.30      | -57.74      | -56.44        | -51.43        | -21.20         | -30.23         |
| 2462MHz                  | Pass   | 7.5G            | 25G            | PK   | 19.86196G    | 5.01        | -56.42      | -54.24      | -52.18        | -47.17        | -21.20         | -25.97         |
| 802.11g_Nss1,(6Mbps)_2TX | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 2412MHz                  | Pass   | 1G              | 2.36G          | AV   | 2.31257G     | 5.01        | -75.86      | -77.30      | -73.51        | -68.50        | -41.20         | -27.30         |
| 2412MHz                  | Pass   | 2.36G           | 2.4G           | AV   | 2.37888G     | 5.01        | -76.08      | -76.05      | -73.05        | -68.04        | -41.20         | -26.84         |
| 2412MHz                  | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -75.86      | -76.27      | -73.05        | -68.04        | -41.20         | -26.84         |
| 2412MHz                  | Pass   | 2.4835G         | 2.5235G        | AV   | 2.48502G     | 5.01        | -75.63      | -75.06      | -72.33        | -67.32        | -41.20         | -26.12         |
| 2412MHz                  | Pass   | 2.5235G         | 2.9G           | AV   | 2.83562G     | 5.01        | -75.14      | -75.46      | -72.29        | -67.28        | -41.20         | -26.08         |
| 2412MHz                  | Pass   | 2.9G            | 7.5G           | AV   | 4.8159G      | 5.01        | -72.15      | -72.14      | -69.13        | -64.12        | -41.20         | -22.92         |
| 2412MHz                  | Pass   | 2.9G            | 7.5G           | AV   | 7.28955G     | 5.01        | -71.37      | -69.36      | -67.24        | -62.23        | -41.20         | -21.03         |
| 2412MHz                  | Pass   | 7.5G            | 25G            | AV   | 19.85281G    | 5.01        | -64.41      | -65.37      | -61.85        | -56.84        | -41.20         | -15.64         |
| 2412MHz                  | Pass   | 1G              | 2.36G          | PK   | 2.28078G     | 5.01        | -69.27      | -65.00      | -63.62        | -58.61        | -21.20         | -37.41         |
| 2412MHz                  | Pass   | 2.36G           | 2.4G           | PK   | 2.37216G     | 5.01        | -65.09      | -66.03      | -62.52        | -57.51        | -21.20         | -36.31         |
| 2412MHz                  | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -65.51      | -66.74      | -63.07        | -58.06        | -21.20         | -36.86         |
| 2412MHz                  | Pass   | 2.4835G         | 2.5235G        | PK   | 2.5191G      | 5.01        | -64.31      | -65.43      | -61.82        | -56.81        | -21.20         | -35.61         |
| 2412MHz                  | Pass   | 2.5235G         | 2.9G           | PK   | 2.67071G     | 5.01        | -64.10      | -67.09      | -62.33        | -57.32        | -21.20         | -36.12         |
| 2412MHz                  | Pass   | 2.9G            | 7.5G           | PK   | 4.81878G     | 5.01        | -64.10      | -62.35      | -60.13        | -55.12        | -21.20         | -33.92         |
| 2412MHz                  | Pass   | 2.9G            | 7.5G           | PK   | 7.3068G      | 5.01        | -61.26      | -60.42      | -57.81        | -52.80        | -21.20         | -31.60         |
| 2412MHz                  | Pass   | 7.5G            | 25G            | PK   | 15.76G       | 5.01        | -56.09      | -55.71      | -52.89        | -47.88        | -21.20         | -26.68         |
| 2437MHz                  | Pass   | 1G              | 2.36G          | AV   | 2.29574G     | 5.01        | -76.68      | -76.01      | -73.32        | -68.31        | -41.20         | -27.11         |
| 2437MHz                  | Pass   | 2.36G           | 2.4G           | AV   | 2.38248G     | 5.01        | -75.99      | -75.50      | -72.73        | -67.72        | -41.20         | -26.52         |
| 2437MHz                  | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -76.85      | -76.22      | -73.51        | -68.50        | -41.20         | -27.30         |
| 2437MHz                  | Pass   | 2.4835G         | 2.5235G        | AV   | 2.49878G     | 5.01        | -75.30      | -75.38      | -72.33        | -67.32        | -41.20         | -26.12         |



# CSE-Harmonics (Restricted Band)\_Non-Beamforming\_2T1S

## Appendix F.4

| Mode                           | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 2437MHz                        | Pass   | 2.5235G         | 2.9G           | AV   | 2.71721G     | 5.01        | -76.23      | -74.96      | -72.54        | -67.53        | -41.20         | -26.33         |
| 2437MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 4.87686G     | 5.01        | -71.76      | -73.56      | -69.56        | -64.55        | -41.20         | -23.35         |
| 2437MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 7.3114G      | 5.01        | -70.63      | -66.88      | -65.35        | -60.34        | -41.20         | -19.14         |
| 2437MHz                        | Pass   | 7.5G            | 25G            | AV   | 19.84406G    | 5.01        | -64.51      | -64.73      | -61.61        | -56.60        | -41.20         | -15.40         |
| 2437MHz                        | Pass   | 1G              | 2.36G          | PK   | 2.11197G     | 5.01        | -66.18      | -68.72      | -64.26        | -59.25        | -21.20         | -38.05         |
| 2437MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.3884G      | 5.01        | -64.45      | -67.66      | -62.75        | -57.74        | -21.20         | -36.54         |
| 2437MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -66.19      | -66.18      | -63.17        | -58.16        | -21.20         | -36.96         |
| 2437MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.50518G     | 5.01        | -65.57      | -64.59      | -62.04        | -57.03        | -21.20         | -35.83         |
| 2437MHz                        | Pass   | 2.5235G         | 2.9G           | PK   | 2.81472G     | 5.01        | -65.64      | -64.98      | -62.29        | -57.28        | -21.20         | -36.08         |
| 2437MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 4.88145G     | 5.01        | -66.49      | -60.83      | -59.79        | -54.78        | -21.20         | -33.58         |
| 2437MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 7.31198G     | 5.01        | -63.95      | -56.00      | -55.35        | -50.34        | -21.20         | -29.14         |
| 2437MHz                        | Pass   | 7.5G            | 25G            | PK   | 19.82875G    | 5.01        | -55.83      | -55.19      | -52.49        | -47.48        | -21.20         | -26.28         |
| 2462MHz                        | Pass   | 1G              | 2.36G          | AV   | 2.34028G     | 5.01        | -77.15      | -76.01      | -73.53        | -68.52        | -41.20         | -27.32         |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.37472G     | 5.01        | -76.10      | -75.93      | -73.00        | -67.99        | -41.20         | -26.79         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -76.50      | -76.60      | -73.54        | -68.53        | -41.20         | -27.33         |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.49678G     | 5.01        | -75.06      | -75.46      | -72.25        | -67.24        | -41.20         | -26.04         |
| 2462MHz                        | Pass   | 2.5235G         | 2.9G           | AV   | 2.69829G     | 5.01        | -75.24      | -75.71      | -72.46        | -67.45        | -41.20         | -26.25         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 4.92458G     | 5.01        | -72.10      | -71.77      | -68.92        | -63.91        | -41.20         | -22.71         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 7.2953G      | 5.01        | -69.70      | -70.82      | -67.21        | -62.20        | -41.20         | -21.00         |
| 2462MHz                        | Pass   | 7.5G            | 25G            | AV   | 19.81344G    | 5.01        | -64.54      | -65.02      | -61.76        | -56.75        | -41.20         | -15.55         |
| 2462MHz                        | Pass   | 1G              | 2.36G          | PK   | 2.33994G     | 5.01        | -66.09      | -69.87      | -64.57        | -59.56        | -21.20         | -38.36         |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.3656G      | 5.01        | -67.30      | -64.75      | -62.83        | -57.82        | -21.20         | -36.62         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -66.27      | -66.64      | -63.44        | -58.43        | -21.20         | -37.23         |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.4935G      | 5.01        | -63.68      | -65.81      | -61.61        | -56.60        | -21.20         | -35.40         |
| 2462MHz                        | Pass   | 2.5235G         | 2.9G           | PK   | 2.66328G     | 5.01        | -65.02      | -65.35      | -62.17        | -57.16        | -21.20         | -35.96         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 4.92113G     | 5.01        | -62.53      | -62.79      | -59.65        | -54.64        | -21.20         | -33.44         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 7.31198G     | 5.01        | -61.37      | -60.38      | -57.84        | -52.83        | -21.20         | -31.63         |
| 2462MHz                        | Pass   | 7.5G            | 25G            | PK   | 19.38469G    | 5.01        | -58.42      | -54.84      | -53.26        | -48.25        | -21.20         | -27.05         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 2412MHz                        | Pass   | 1G              | 2.36G          | AV   | 2.31002G     | 5.01        | -77.00      | -75.71      | -73.30        | -68.29        | -41.20         | -27.09         |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.37952G     | 5.01        | -76.04      | -76.01      | -73.01        | -68.00        | -41.20         | -26.80         |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -76.42      | -75.75      | -73.06        | -68.05        | -41.20         | -26.85         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.5007G      | 5.01        | -75.38      | -74.77      | -72.05        | -67.04        | -41.20         | -25.84         |
| 2412MHz                        | Pass   | 2.5235G         | 2.9G           | AV   | 2.69424G     | 5.01        | -75.95      | -74.91      | -72.39        | -67.38        | -41.20         | -26.18         |
| 2412MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 4.8251G      | 5.01        | -72.15      | -71.59      | -68.85        | -63.84        | -41.20         | -22.64         |
| 2412MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 7.27G        | 5.01        | -70.31      | -70.25      | -67.27        | -62.26        | -41.20         | -21.06         |
| 2412MHz                        | Pass   | 7.5G            | 25G            | AV   | 19.83531G    | 5.01        | -63.95      | -64.94      | -61.41        | -56.40        | -41.20         | -15.20         |
| 2412MHz                        | Pass   | 1G              | 2.36G          | PK   | 2.14087G     | 5.01        | -68.41      | -65.79      | -63.90        | -58.89        | -21.20         | -37.69         |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.37528G     | 5.01        | -65.90      | -66.13      | -63.00        | -57.99        | -21.20         | -36.79         |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -67.28      | -66.12      | -63.65        | -58.64        | -21.20         | -37.44         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.5083G      | 5.01        | -63.56      | -66.28      | -61.70        | -56.69        | -21.20         | -35.49         |
| 2412MHz                        | Pass   | 2.5235G         | 2.9G           | PK   | 2.82611G     | 5.01        | -63.54      | -67.08      | -61.95        | -56.94        | -21.20         | -35.74         |
| 2412MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 4.81935G     | 5.01        | -63.09      | -63.49      | -60.28        | -55.27        | -21.20         | -34.07         |
| 2412MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 7.2516G      | 5.01        | -61.81      | -59.34      | -57.39        | -52.38        | -21.20         | -31.18         |
| 2412MHz                        | Pass   | 7.5G            | 25G            | PK   | 15.89344G    | 5.01        | -57.81      | -54.26      | -52.67        | -47.66        | -21.20         | -26.46         |
| 2437MHz                        | Pass   | 1G              | 2.36G          | AV   | 2.31971G     | 5.01        | -75.84      | -76.10      | -72.96        | -67.95        | -41.20         | -26.75         |
| 2437MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.37512G     | 5.01        | -75.14      | -76.93      | -72.93        | -67.92        | -41.20         | -26.72         |
| 2437MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -75.96      | -76.52      | -73.22        | -68.21        | -41.20         | -27.01         |
| 2437MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.4943G      | 5.01        | -75.91      | -74.33      | -72.04        | -67.03        | -41.20         | -25.83         |
| 2437MHz                        | Pass   | 2.5235G         | 2.9G           | AV   | 2.84324G     | 5.01        | -76.22      | -74.32      | -72.16        | -67.15        | -41.20         | -25.95         |
| 2437MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 4.87398G     | 5.01        | -72.53      | -72.56      | -69.53        | -64.52        | -41.20         | -23.32         |
| 2437MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 7.30853G     | 5.01        | -70.84      | -66.91      | -65.43        | -60.42        | -41.20         | -19.22         |
| 2437MHz                        | Pass   | 7.5G            | 25G            | AV   | 19.84625G    | 5.01        | -65.12      | -64.37      | -61.72        | -56.71        | -41.20         | -15.51         |
| 2437MHz                        | Pass   | 1G              | 2.36G          | PK   | 2.2563G      | 5.01        | -67.27      | -65.56      | -63.32        | -58.31        | -21.20         | -37.11         |
| 2437MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.38256G     | 5.01        | -67.39      | -64.98      | -63.01        | -58.00        | -21.20         | -36.80         |
| 2437MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -66.41      | -66.66      | -63.52        | -58.51        | -21.20         | -37.31         |
| 2437MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.49094G     | 5.01        | -65.05      | -65.08      | -62.05        | -57.04        | -21.20         | -35.84         |
| 2437MHz                        | Pass   | 2.5235G         | 2.9G           | PK   | 2.89209G     | 5.01        | -65.53      | -64.82      | -62.15        | -57.14        | -21.20         | -35.94         |
| 2437MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 4.8711G      | 5.01        | -62.53      | -64.35      | -60.34        | -55.33        | -21.20         | -34.13         |
| 2437MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 7.31543G     | 5.01        | -63.66      | -56.91      | -56.08        | -51.07        | -21.20         | -29.87         |
| 2437MHz                        | Pass   | 7.5G            | 25G            | PK   | 19.41969G    | 5.01        | -56.35      | -55.44      | -52.86        | -47.85        | -21.20         | -26.65         |
| 2462MHz                        | Pass   | 1G              | 2.36G          | AV   | 2.27959G     | 5.01        | -75.67      | -77.22      | -73.37        | -68.36        | -41.20         | -27.16         |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.36056G     | 5.01        | -76.88      | -75.11      | -72.90        | -67.89        | -41.20         | -26.69         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 5.01        | -76.37      | -76.16      | -73.25        | -68.24        | -41.20         | -27.04         |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.51486G     | 5.01        | -75.82      | -74.59      | -72.15        | -67.14        | -41.20         | -25.94         |
| 2462MHz                        | Pass   | 2.5235G         | 2.9G           | AV   | 2.71335G     | 5.01        | -75.62      | -75.24      | -72.42        | -67.41        | -41.20         | -26.21         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 4.92573G     | 5.01        | -72.30      | -71.74      | -69.00        | -63.99        | -41.20         | -22.79         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 7.25103G     | 5.01        | -70.07      | -70.66      | -67.34        | -62.33        | -41.20         | -21.13         |
| 2462MHz                        | Pass   | 7.5G            | 25G            | AV   | 19.85281G    | 5.01        | -63.83      | -64.97      | -61.35        | -56.34        | -41.20         | -15.14         |
| 2462MHz                        | Pass   | 1G              | 2.36G          | PK   | 2.35133G     | 5.01        | -68.12      | -66.10      | -63.98        | -58.97        | -21.20         | -37.77         |



| Mode    | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 2462MHz | Pass   | 2.36G           | 2.4G           | PK   | 2.36856G     | 5.01        | -66.18      | -65.89      | -63.02        | -58.01        | -21.20         | -36.81         |
| 2462MHz | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 5.01        | -66.96      | -66.68      | -63.81        | -58.80        | -21.20         | -37.60         |
| 2462MHz | Pass   | 2.4835G         | 2.5235G        | PK   | 2.50838G     | 5.01        | -64.98      | -65.55      | -62.25        | -57.24        | -21.20         | -36.04         |
| 2462MHz | Pass   | 2.5235G         | 2.9G           | PK   | 2.77839G     | 5.01        | -64.64      | -65.60      | -62.08        | -57.07        | -21.20         | -36.87         |
| 2462MHz | Pass   | 2.9G            | 7.5G           | PK   | 4.9309G      | 5.01        | -64.41      | -62.15      | -60.12        | -55.11        | -21.20         | -33.91         |
| 2462MHz | Pass   | 2.9G            | 7.5G           | PK   | 7.2539G      | 5.01        | -62.07      | -59.76      | -57.75        | -52.74        | -21.20         | -31.54         |
| 2462MHz | Pass   | 7.5G            | 25G            | PK   | 15.75344G    | 5.01        | -54.91      | -56.49      | -52.62        | -47.61        | -21.20         | -26.41         |

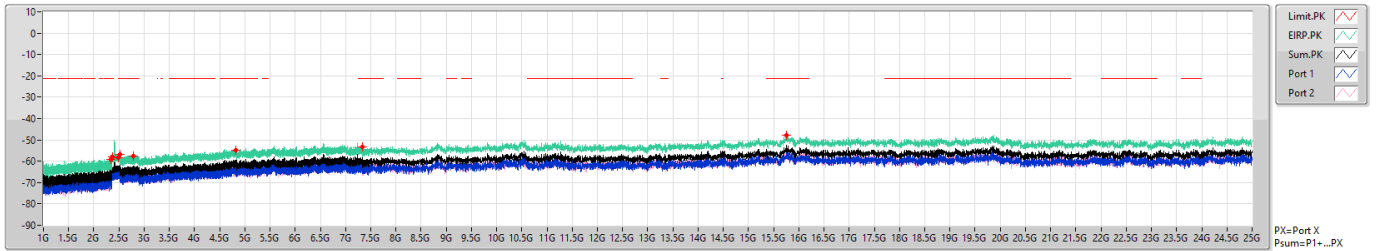
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

### 802.11b\_Nss1,(1Mbps)\_2TX

2412MHz

CSE [PK]

27/07/2021



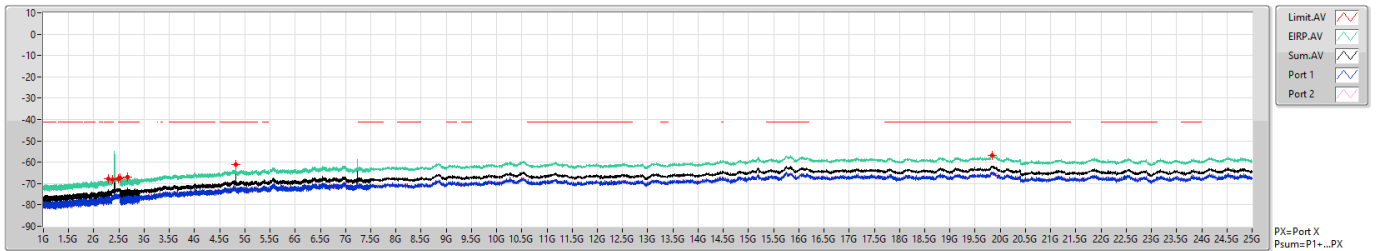
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 2.34657G  | -59.13    | -21.20     | -37.93     | 5.01   | 0.00    | -64.14    | -65.86  | -69.00  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.37896G  | -57.94    | -21.20     | -36.74     | 5.01   | 0.00    | -62.95    | -65.27  | -66.79  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G   | -58.20    | -21.20     | -37.00     | 5.01   | 0.00    | -63.21    | -65.65  | -66.87  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.52062G  | -56.98    | -21.20     | -35.78     | 5.01   | 0.00    | -61.99    | -65.10  | -64.91  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.79053G  | -57.39    | -21.20     | -36.19     | 5.01   | 0.00    | -62.40    | -65.35  | -65.47  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.82395G  | -54.69    | -21.20     | -33.49     | 5.01   | 0.00    | -59.70    | -60.92  | -65.83  |
| 2.9G        | 7.5G       | 1M      | PK   | 7.3387G   | -53.11    | -21.20     | -31.91     | 5.01   | 0.00    | -58.12    | -60.83  | -61.45  |
| 7.5G        | 25G        | 1M      | PK   | 15.73781G | -47.67    | -21.20     | -26.47     | 5.01   | 0.00    | -52.68    | -55.07  | -56.42  |

### 802.11b\_Nss1,(1Mbps)\_2TX

2412MHz

CSE [AV]

27/07/2021

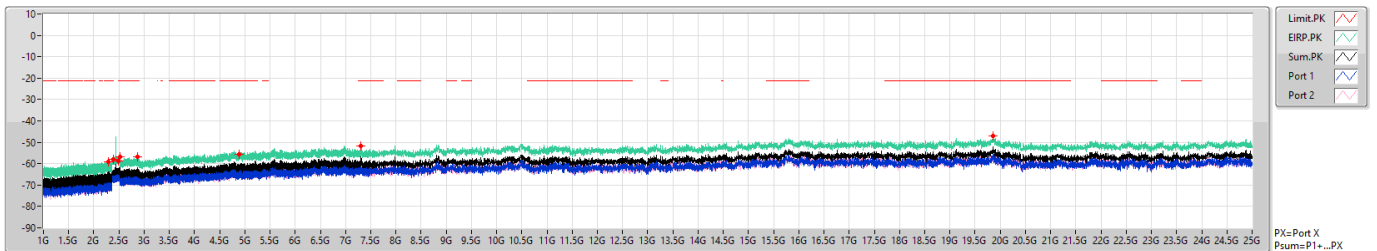


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.28639G | -67.92    | -41.20     | -26.72     | 5.01   | 0.00    | -72.93    | -76.16  | -75.73  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.37176G | -67.94    | -41.20     | -26.74     | 5.01   | 0.00    | -72.95    | -76.01  | -75.91  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -67.81    | -41.20     | -26.61     | 5.01   | 0.00    | -72.82    | -76.23  | -75.46  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.51742G | -67.27    | -41.20     | -26.07     | 5.01   | 0.00    | -72.28    | -74.85  | -75.78  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.6693G  | -67.14    | -41.20     | -25.94     | 5.01   | 0.00    | -72.15    | -76.32  | -74.24  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.82395G | -60.96    | -41.20     | -19.76     | 5.01   | 0.00    | -65.97    | -66.97  | -72.82  |
| 7.5G        | 25G        | 1M      | AV   | 19.8375G | -56.77    | -41.20     | -15.57     | 5.01   | 0.00    | -61.78    | -64.94  | -64.64  |

### 802.11b\_Nss1,(1Mbps)\_2TX 2437MHz

CSE [PK]

27/07/2021

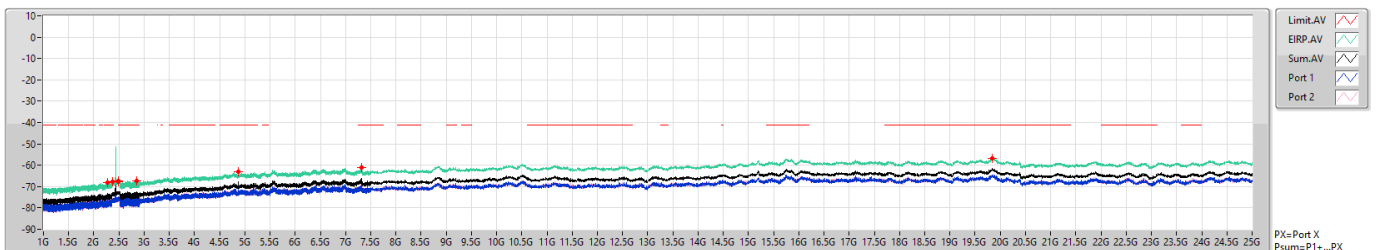


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 2.29557G  | -58.97    | -21.20     | -37.77     | 5.01   | 0.00    | -63.98    | -67.11  | -66.88  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.38112G  | -57.91    | -21.20     | -36.71     | 5.01   | 0.00    | -62.92    | -66.59  | -65.35  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G   | -58.79    | -21.20     | -37.59     | 5.01   | 0.00    | -63.80    | -66.76  | -66.86  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.51614G  | -56.79    | -21.20     | -35.59     | 5.01   | 0.00    | -61.80    | -64.89  | -64.74  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.86875G  | -56.75    | -21.20     | -35.55     | 5.01   | 0.00    | -61.76    | -66.24  | -63.68  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.88088G  | -55.74    | -21.20     | -34.54     | 5.01   | 0.00    | -60.75    | -64.29  | -63.28  |
| 2.9G        | 7.5G       | 1M      | PK   | 7.29645G  | -51.90    | -21.20     | -30.70     | 5.01   | 0.00    | -56.91    | -62.80  | -58.20  |
| 7.5G        | 25G        | 1M      | PK   | 19.84844G | -46.91    | -21.20     | -25.71     | 5.01   | 0.00    | -51.92    | -55.41  | -54.49  |

### 802.11b\_Nss1,(1Mbps)\_2TX 2437MHz

CSE [AV]

27/07/2021

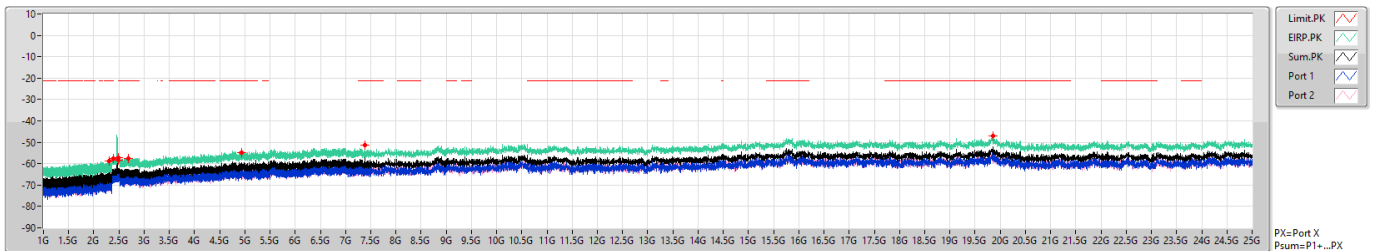


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.26599G | -68.32    | -41.20     | -27.12     | 5.01   | 0.00    | -73.33    | -75.48  | -77.42  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.36984G | -67.82    | -41.20     | -26.62     | 5.01   | 0.00    | -72.83    | -75.87  | -75.82  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -67.81    | -41.20     | -26.61     | 5.01   | 0.00    | -72.82    | -76.14  | -75.54  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.49622G | -67.37    | -41.20     | -26.17     | 5.01   | 0.00    | -72.38    | -74.70  | -76.22  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.84625G | -67.42    | -41.20     | -26.22     | 5.01   | 0.00    | -72.43    | -75.77  | -75.13  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.87398G | -62.86    | -41.20     | -21.66     | 5.01   | 0.00    | -67.87    | -69.54  | -72.82  |
| 2.9G        | 7.5G       | 1M      | AV   | 7.31025G | -61.14    | -41.20     | -19.94     | 5.01   | 0.00    | -66.15    | -70.42  | -68.18  |
| 7.5G        | 25G        | 1M      | AV   | 19.8375G | -56.61    | -41.20     | -15.41     | 5.01   | 0.00    | -61.62    | -64.61  | -64.66  |

## 802.11b\_Nss1,(1Mbps)\_2TX 2462MHz

CSE [PK]

27/07/2021

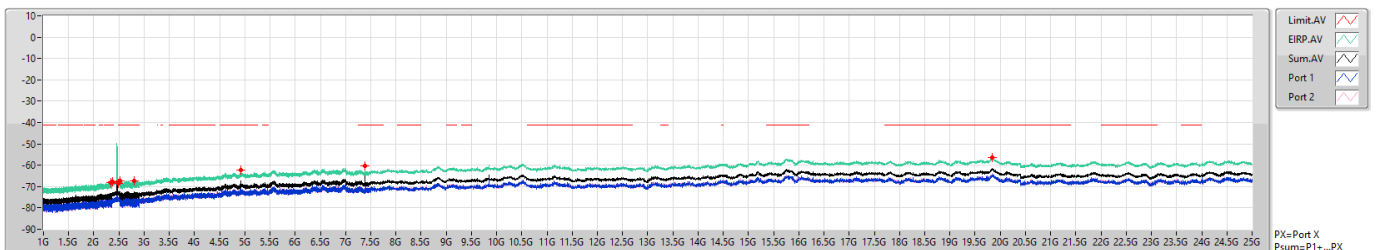


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 2.2995G   | -58.68    | -21.20     | -37.48     | 5.01   | 0.00    | -63.69    | -66.42  | -67.01  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.38768G  | -57.45    | -21.20     | -36.25     | 5.01   | 0.00    | -62.46    | -66.85  | -64.43  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G   | -58.32    | -21.20     | -37.12     | 5.01   | 0.00    | -63.33    | -65.16  | -67.97  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.49398G  | -57.09    | -21.20     | -35.89     | 5.01   | 0.00    | -62.10    | -63.87  | -66.85  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.68652G  | -57.49    | -21.20     | -36.29     | 5.01   | 0.00    | -62.50    | -66.46  | -64.73  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.9286G   | -55.00    | -21.20     | -33.80     | 5.01   | 0.00    | -60.01    | -62.04  | -64.29  |
| 2.9G        | 7.5G       | 1M      | PK   | 7.385G    | -51.43    | -21.20     | -30.23     | 5.01   | 0.00    | -56.44    | -62.30  | -57.74  |
| 7.5G        | 25G        | 1M      | PK   | 19.86156G | -47.17    | -21.20     | -25.97     | 5.01   | 0.00    | -52.18    | -56.42  | -54.24  |

## 802.11b\_Nss1,(1Mbps)\_2TX 2462MHz

CSE [AV]

27/07/2021

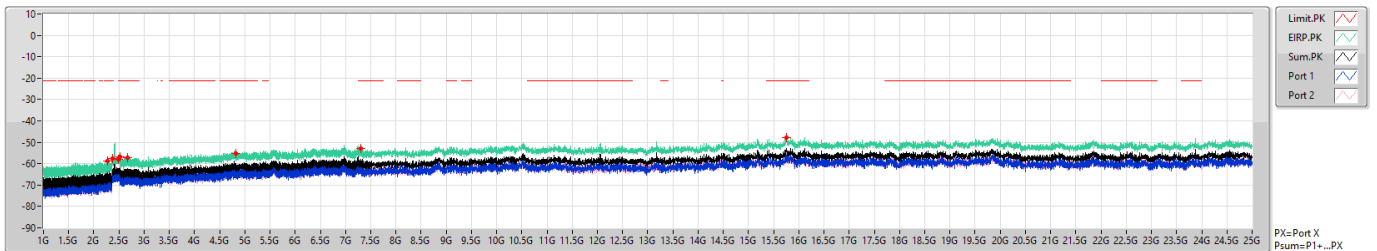


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.34028G  | -68.17    | -41.20     | -26.97     | 5.01   | 0.00    | -73.18    | -76.58  | -75.83  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.37216G  | -67.82    | -41.20     | -26.62     | 5.01   | 0.00    | -72.83    | -75.78  | -75.91  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G   | -68.34    | -41.20     | -27.14     | 5.01   | 0.00    | -73.35    | -76.23  | -76.50  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.51694G  | -67.24    | -41.20     | -26.04     | 5.01   | 0.00    | -72.25    | -75.01  | -75.52  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.80343G  | -67.45    | -41.20     | -26.25     | 5.01   | 0.00    | -72.46    | -74.80  | -76.27  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.924G    | -62.31    | -41.20     | -21.11     | 5.01   | 0.00    | -67.32    | -68.79  | -72.73  |
| 2.9G        | 7.5G       | 1M      | AV   | 7.38443G  | -60.18    | -41.20     | -18.98     | 5.01   | 0.00    | -65.19    | -71.89  | -66.23  |
| 7.5G        | 25G        | 1M      | AV   | 19.83531G | -56.34    | -41.20     | -15.14     | 5.01   | 0.00    | -61.35    | -65.11  | -63.72  |

### 802.11g\_Nss1,(6Mbps)\_2TX 2412MHz

CSE [PK]

27/07/2021

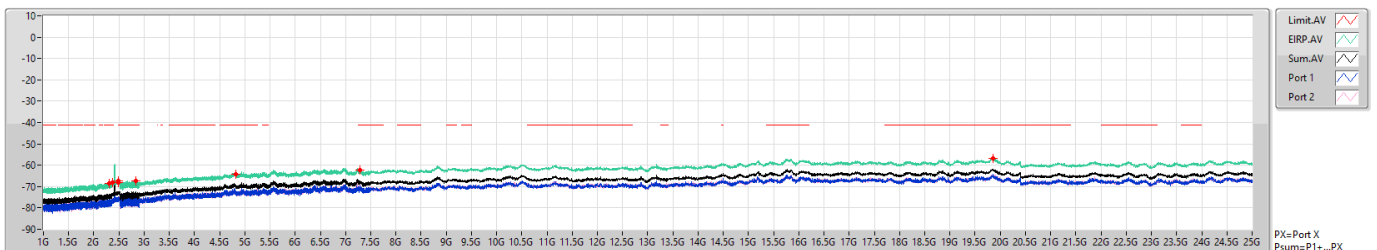


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 2.28078G | -58.61    | -21.20     | -37.41     | 5.01   | 0.00    | -63.62    | -69.27  | -65.00  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.37216G | -57.51    | -21.20     | -36.31     | 5.01   | 0.00    | -62.52    | -65.09  | -66.03  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -58.06    | -21.20     | -36.86     | 5.01   | 0.00    | -63.07    | -65.51  | -66.74  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.5191G  | -56.81    | -21.20     | -35.61     | 5.01   | 0.00    | -61.82    | -64.31  | -65.43  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.67071G | -57.32    | -21.20     | -36.12     | 5.01   | 0.00    | -62.33    | -64.10  | -67.09  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.81878G | -55.12    | -21.20     | -33.92     | 5.01   | 0.00    | -60.13    | -64.10  | -62.35  |
| 2.9G        | 7.5G       | 1M      | PK   | 7.3088G  | -52.80    | -21.20     | -31.60     | 5.01   | 0.00    | -57.81    | -61.26  | -60.42  |
| 7.5G        | 25G        | 1M      | PK   | 15.76G   | -47.88    | -21.20     | -26.68     | 5.01   | 0.00    | -52.89    | -56.09  | -55.71  |

### 802.11g\_Nss1,(6Mbps)\_2TX 2412MHz

CSE [AV]

27/07/2021

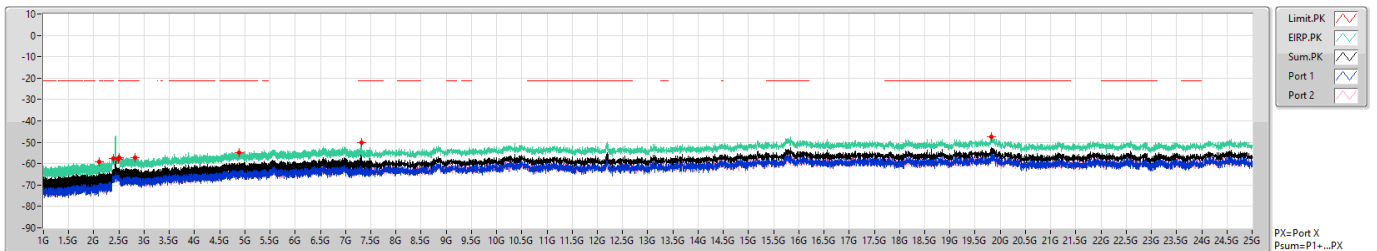


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.31257G  | -68.50    | -41.20     | -27.30     | 5.01   | 0.00    | -73.51    | -75.86  | -77.30  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.37888G  | -68.04    | -41.20     | -26.84     | 5.01   | 0.00    | -73.05    | -76.08  | -76.05  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G   | -68.04    | -41.20     | -26.84     | 5.01   | 0.00    | -73.05    | -75.86  | -76.27  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.48502G  | -67.32    | -41.20     | -26.12     | 5.01   | 0.00    | -72.33    | -75.63  | -75.06  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.83562G  | -67.28    | -41.20     | -26.08     | 5.01   | 0.00    | -72.29    | -75.14  | -75.46  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.8159G   | -64.12    | -41.20     | -22.92     | 5.01   | 0.00    | -69.13    | -72.15  | -72.14  |
| 2.9G        | 7.5G       | 1M      | AV   | 7.28955G  | -62.23    | -41.20     | -21.03     | 5.01   | 0.00    | -67.24    | -71.37  | -69.36  |
| 7.5G        | 25G        | 1M      | AV   | 19.83281G | -56.84    | -41.20     | -15.64     | 5.01   | 0.00    | -61.85    | -64.41  | -65.37  |

### 802.11g\_Nss1,(6Mbps)\_2TX 2437MHz

CSE [PK]

27/07/2021

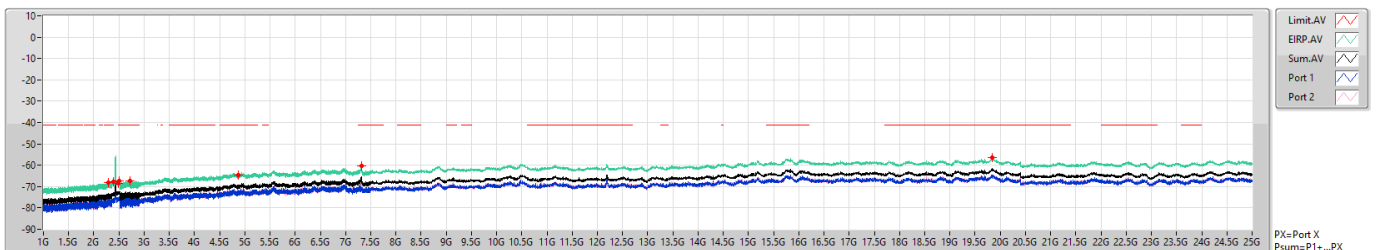


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 2.11197G  | -59.25    | -21.20     | -38.05     | 5.01   | 0.00    | -64.26    | -66.18  | -68.72  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.3884G   | -57.74    | -21.20     | -36.54     | 5.01   | 0.00    | -62.75    | -64.45  | -67.66  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G   | -58.16    | -21.20     | -36.96     | 5.01   | 0.00    | -63.17    | -66.19  | -66.18  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.50518G  | -57.03    | -21.20     | -35.83     | 5.01   | 0.00    | -62.04    | -65.57  | -64.59  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.81472G  | -57.28    | -21.20     | -36.08     | 5.01   | 0.00    | -62.29    | -65.64  | -64.98  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.88145G  | -54.78    | -21.20     | -33.58     | 5.01   | 0.00    | -59.79    | -66.49  | -60.83  |
| 2.9G        | 7.5G       | 1M      | PK   | 7.31198G  | -50.34    | -21.20     | -29.14     | 5.01   | 0.00    | -55.35    | -63.95  | -56.00  |
| 7.5G        | 25G        | 1M      | PK   | 19.82879G | -47.48    | -21.20     | -26.28     | 5.01   | 0.00    | -52.49    | -55.83  | -55.19  |

### 802.11g\_Nss1,(6Mbps)\_2TX 2437MHz

CSE [AV]

27/07/2021

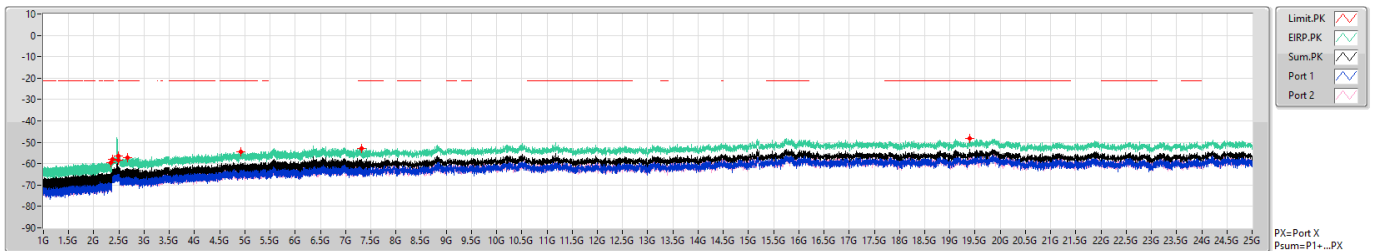


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.29574G  | -68.31    | -41.20     | -27.11     | 5.01   | 0.00    | -73.32    | -76.68  | -76.01  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.38248G  | -67.72    | -41.20     | -26.52     | 5.01   | 0.00    | -72.73    | -75.99  | -75.50  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G   | -68.50    | -41.20     | -27.30     | 5.01   | 0.00    | -73.51    | -76.85  | -76.22  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.49878G  | -67.32    | -41.20     | -26.12     | 5.01   | 0.00    | -72.33    | -75.30  | -75.38  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.71721G  | -67.53    | -41.20     | -26.33     | 5.01   | 0.00    | -72.54    | -76.23  | -74.96  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.87885G  | -64.55    | -41.20     | -23.35     | 5.01   | 0.00    | -69.56    | -71.76  | -73.56  |
| 2.9G        | 7.5G       | 1M      | AV   | 7.3114G   | -60.34    | -41.20     | -19.14     | 5.01   | 0.00    | -65.35    | -70.63  | -66.88  |
| 7.5G        | 25G        | 1M      | AV   | 19.84406G | -56.60    | -41.20     | -15.40     | 5.01   | 0.00    | -61.61    | -64.51  | -64.73  |

## 802.11g\_Nss1,(6Mbps)\_2TX 2462MHz

CSE [PK]

27/07/2021

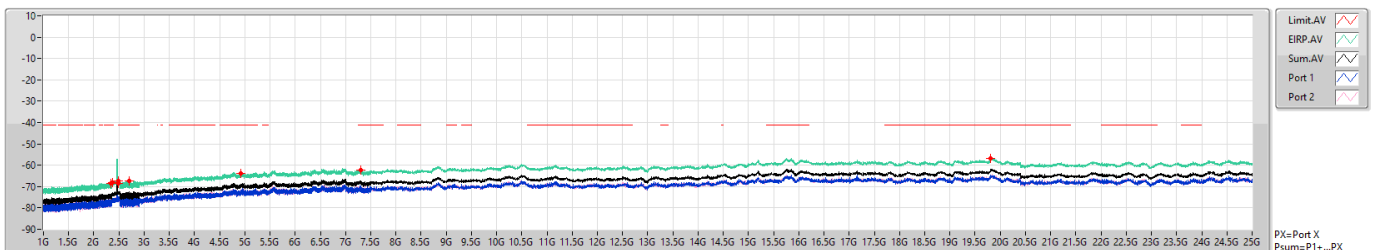


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 2.33994G  | -59.56    | -21.20     | -38.36     | 5.01   | 0.00    | -64.57    | -66.09  | -69.87  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.36566G  | -57.82    | -21.20     | -36.62     | 5.01   | 0.00    | -62.83    | -67.30  | -64.75  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G   | -58.43    | -21.20     | -37.23     | 5.01   | 0.00    | -63.44    | -66.27  | -66.64  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.4935G   | -56.60    | -21.20     | -35.40     | 5.01   | 0.00    | -61.61    | -63.68  | -65.81  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.66328G  | -57.16    | -21.20     | -35.96     | 5.01   | 0.00    | -62.17    | -65.02  | -65.35  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.92113G  | -54.64    | -21.20     | -33.44     | 5.01   | 0.00    | -59.65    | -62.53  | -62.79  |
| 2.9G        | 7.5G       | 1M      | PK   | 7.31198G  | -52.83    | -21.20     | -31.63     | 5.01   | 0.00    | -57.84    | -61.37  | -60.38  |
| 7.5G        | 25G        | 1M      | PK   | 19.38469G | -48.25    | -21.20     | -27.05     | 5.01   | 0.00    | -53.26    | -58.42  | -54.84  |

## 802.11g\_Nss1,(6Mbps)\_2TX 2462MHz

CSE [AV]

27/07/2021

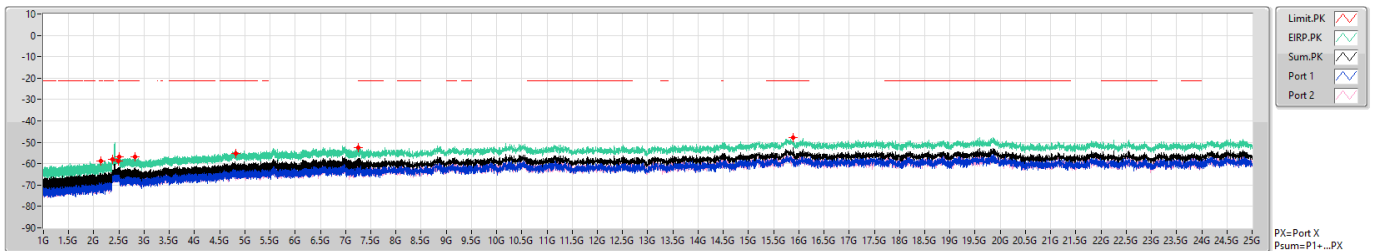


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.34028G  | -68.52    | -41.20     | -27.32     | 5.01   | 0.00    | -73.53    | -77.15  | -76.01  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.37472G  | -67.99    | -41.20     | -26.79     | 5.01   | 0.00    | -73.00    | -76.10  | -75.93  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G   | -68.53    | -41.20     | -27.33     | 5.01   | 0.00    | -73.54    | -76.50  | -76.60  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.49678G  | -67.24    | -41.20     | -26.04     | 5.01   | 0.00    | -72.25    | -75.06  | -75.46  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.69829G  | -67.45    | -41.20     | -26.25     | 5.01   | 0.00    | -72.46    | -75.24  | -75.71  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.92458G  | -63.91    | -41.20     | -22.71     | 5.01   | 0.00    | -68.92    | -72.10  | -71.77  |
| 2.9G        | 7.5G       | 1M      | AV   | 7.2953G   | -62.20    | -41.20     | -21.00     | 5.01   | 0.00    | -67.21    | -69.70  | -70.82  |
| 7.5G        | 25G        | 1M      | AV   | 19.81344G | -56.75    | -41.20     | -15.55     | 5.01   | 0.00    | -61.76    | -64.54  | -65.02  |

### 802.11ax HEW20\_Nss1,(MCS0)\_2TX 2412MHz

CSE [PK]

27/07/2021

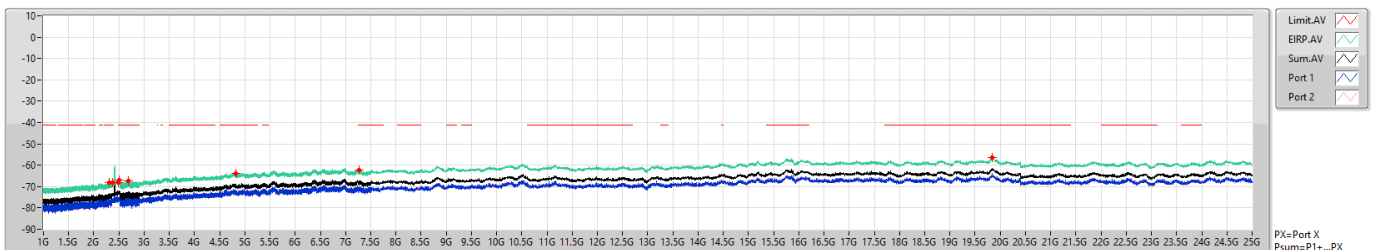


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 2.14087G  | -58.89    | -21.20     | -37.69     | 5.01   | 0.00    | -63.90    | -68.41  | -65.79  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.37528G  | -57.99    | -21.20     | -36.79     | 5.01   | 0.00    | -63.00    | -65.90  | -66.13  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G   | -58.64    | -21.20     | -37.44     | 5.01   | 0.00    | -63.65    | -67.28  | -66.12  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.5083G   | -56.69    | -21.20     | -35.49     | 5.01   | 0.00    | -61.70    | -63.56  | -66.28  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.82611G  | -56.94    | -21.20     | -35.74     | 5.01   | 0.00    | -61.95    | -63.54  | -67.08  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.81935G  | -55.27    | -21.20     | -34.07     | 5.01   | 0.00    | -60.28    | -63.09  | -63.49  |
| 2.9G        | 7.5G       | 1M      | PK   | 7.2516G   | -52.38    | -21.20     | -31.18     | 5.01   | 0.00    | -57.39    | -61.81  | -59.34  |
| 7.5G        | 25G        | 1M      | PK   | 15.89344G | -47.66    | -21.20     | -26.46     | 5.01   | 0.00    | -52.67    | -57.81  | -54.26  |

### 802.11ax HEW20\_Nss1,(MCS0)\_2TX 2412MHz

CSE [AV]

27/07/2021

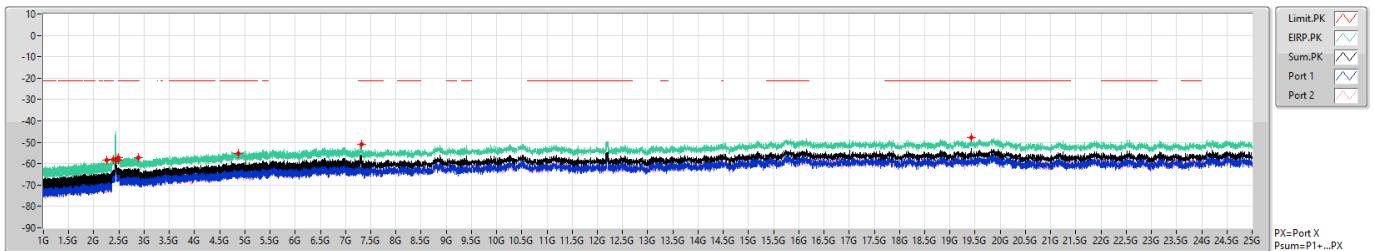


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.31002G  | -68.29    | -41.20     | -27.09     | 5.01   | 0.00    | -73.30    | -77.00  | -75.71  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.37952G  | -68.00    | -41.20     | -26.80     | 5.01   | 0.00    | -73.01    | -76.04  | -76.01  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G   | -68.05    | -41.20     | -26.85     | 5.01   | 0.00    | -73.06    | -76.42  | -75.75  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.5007G   | -67.04    | -41.20     | -25.84     | 5.01   | 0.00    | -72.05    | -75.38  | -74.77  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.69424G  | -67.38    | -41.20     | -26.18     | 5.01   | 0.00    | -72.39    | -75.95  | -74.91  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.8251G   | -63.84    | -41.20     | -22.64     | 5.01   | 0.00    | -68.85    | -72.15  | -71.59  |
| 2.9G        | 7.5G       | 1M      | AV   | 7.27G     | -62.26    | -41.20     | -21.06     | 5.01   | 0.00    | -67.27    | -70.31  | -70.25  |
| 7.5G        | 25G        | 1M      | AV   | 19.83331G | -56.40    | -41.20     | -15.20     | 5.01   | 0.00    | -61.41    | -63.95  | -64.94  |

802.11ax HEW20\_Nss1,(MCS0)\_2TX  
2437MHz

CSE [PK]

27/07/2021

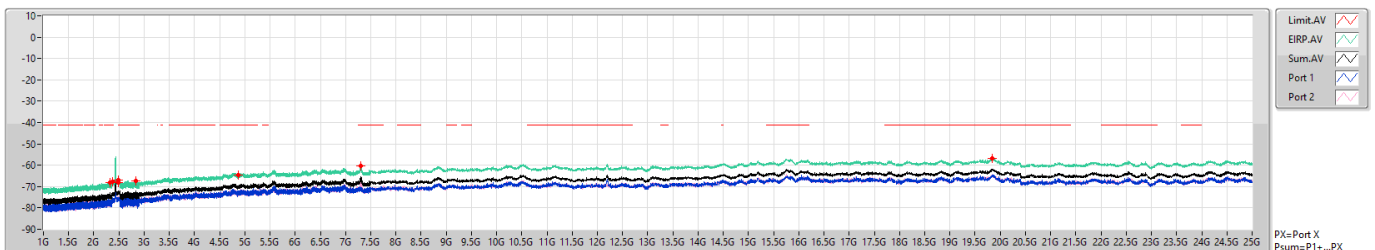


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 2.2563G   | -58.31    | -21.20     | -37.11     | 5.01   | 0.00    | -63.32    | -67.27  | -65.56  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.38256G  | -58.00    | -21.20     | -36.80     | 5.01   | 0.00    | -63.01    | -67.39  | -64.98  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G   | -58.51    | -21.20     | -37.31     | 5.01   | 0.00    | -63.52    | -66.41  | -66.66  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.49094G  | -57.04    | -21.20     | -35.84     | 5.01   | 0.00    | -62.05    | -65.05  | -65.08  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.89209G  | -57.14    | -21.20     | -35.94     | 5.01   | 0.00    | -62.15    | -65.53  | -64.82  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.8711G   | -55.33    | -21.20     | -34.13     | 5.01   | 0.00    | -60.34    | -62.53  | -64.35  |
| 2.9G        | 7.5G       | 1M      | PK   | 7.31543G  | -51.07    | -21.20     | -29.87     | 5.01   | 0.00    | -56.08    | -63.66  | -56.91  |
| 7.5G        | 25G        | 1M      | PK   | 19.41969G | -47.85    | -21.20     | -26.65     | 5.01   | 0.00    | -52.86    | -56.35  | -55.44  |

802.11ax HEW20\_Nss1,(MCS0)\_2TX  
2437MHz

CSE [AV]

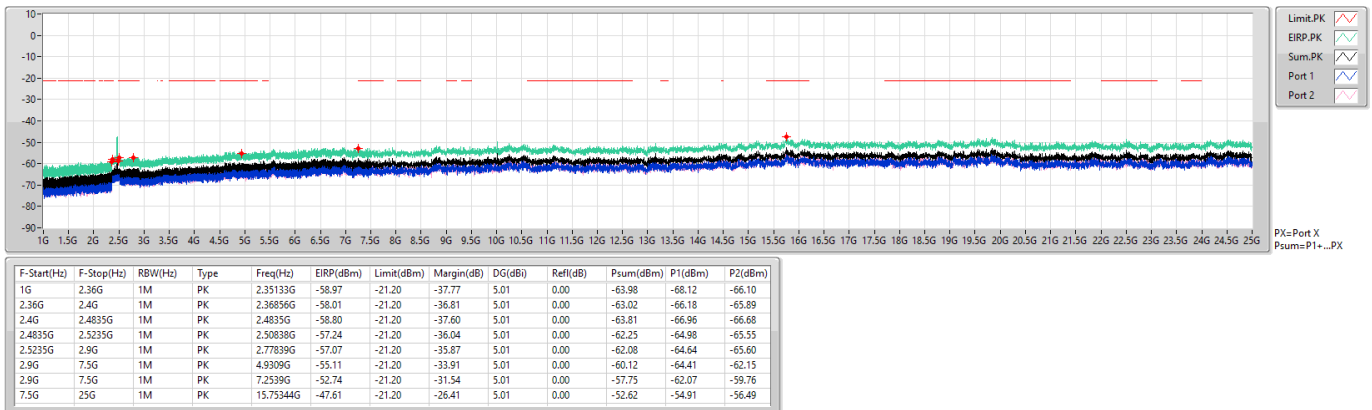
27/07/2021



| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.31971G  | -67.95    | -41.20     | -26.75     | 5.01   | 0.00    | -72.96    | -75.84  | -76.10  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.37512G  | -67.92    | -41.20     | -26.72     | 5.01   | 0.00    | -72.93    | -75.14  | -76.93  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G   | -68.21    | -41.20     | -27.01     | 5.01   | 0.00    | -73.22    | -75.96  | -76.52  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.4943G   | -67.03    | -41.20     | -25.83     | 5.01   | 0.00    | -72.04    | -75.91  | -74.33  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.84324G  | -67.15    | -41.20     | -25.95     | 5.01   | 0.00    | -72.16    | -76.22  | -74.32  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.87398G  | -64.52    | -41.20     | -23.32     | 5.01   | 0.00    | -69.53    | -72.53  | -72.56  |
| 2.9G        | 7.5G       | 1M      | AV   | 7.30853G  | -60.42    | -41.20     | -19.22     | 5.01   | 0.00    | -65.43    | -70.84  | -66.91  |
| 7.5G        | 25G        | 1M      | AV   | 19.84629G | -56.71    | -41.20     | -15.51     | 5.01   | 0.00    | -61.72    | -65.12  | -64.37  |

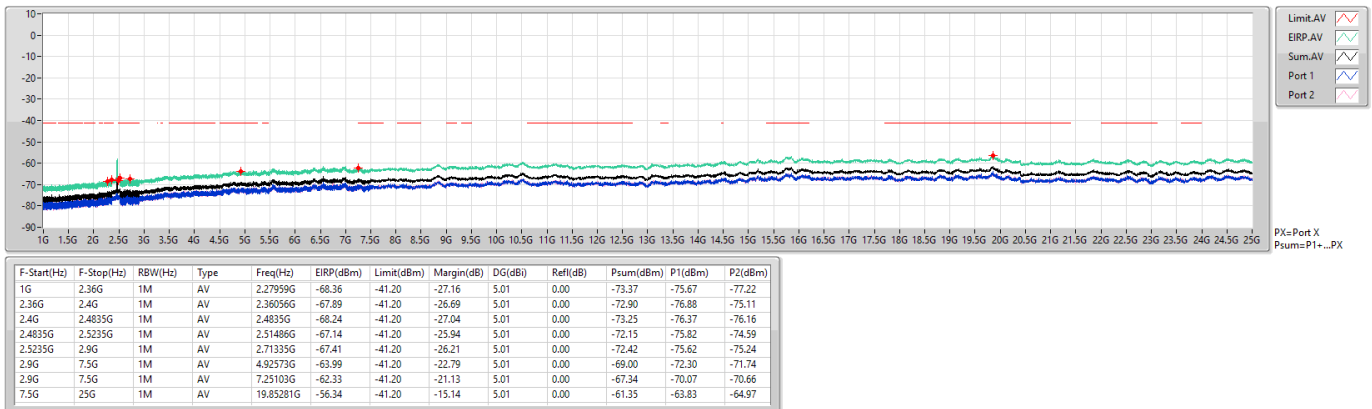
### 802.11ax HEW20\_Nss1,(MCS0)\_2TX 2462MHz

CSE [PK]



### 802.11ax HEW20\_Nss1,(MCS0)\_2TX 2462MHz

CSE [AV]



**Summary**

| Mode                           | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 2.4-2.4835GHz                  | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 802.11ax HEW20_Nss2,(MCS0)_2TX | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48366G     | 2.00        | -24.71      | -32.88      | -24.09        | -22.09        | -21.20         | -0.89          |

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

**Result**

| Mode                           | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 802.11ax HEW20_Nss2 (MCS0)_2TX | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.39G        | 2.00        | -49.47      | -48.61      | -46.01        | -44.01        | -41.20         | -2.81          |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 2.00        | -59.04      | -60.25      | -56.59        | -54.59        | -41.20         | -13.39         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.4839G      | 2.00        | -58.67      | -59.17      | -55.90        | -53.90        | -41.20         | -12.70         |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.38992G     | 2.00        | -31.86      | -33.87      | -29.74        | -27.74        | -21.20         | -6.54          |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 2.00        | -47.76      | -50.54      | -45.92        | -43.92        | -21.20         | -22.72         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.4851G      | 2.00        | -46.62      | -50.56      | -45.15        | -43.15        | -21.20         | -21.95         |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.39G        | 2.00        | -64.37      | -63.38      | -60.84        | -58.84        | -41.20         | -17.64         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 2.00        | -50.32      | -46.52      | -45.01        | -43.01        | -41.20         | -1.81          |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.4835G      | 2.00        | -51.23      | -45.64      | -44.58        | -42.58        | -41.20         | -1.38          |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.38984G     | 2.00        | -55.58      | -54.30      | -51.88        | -49.88        | -21.20         | -28.68         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 2.00        | -24.98      | -33.47      | -24.40        | -22.40        | -21.20         | -1.20          |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48366G     | 2.00        | -24.71      | -32.88      | -24.09        | -22.09        | -21.20         | -0.89          |

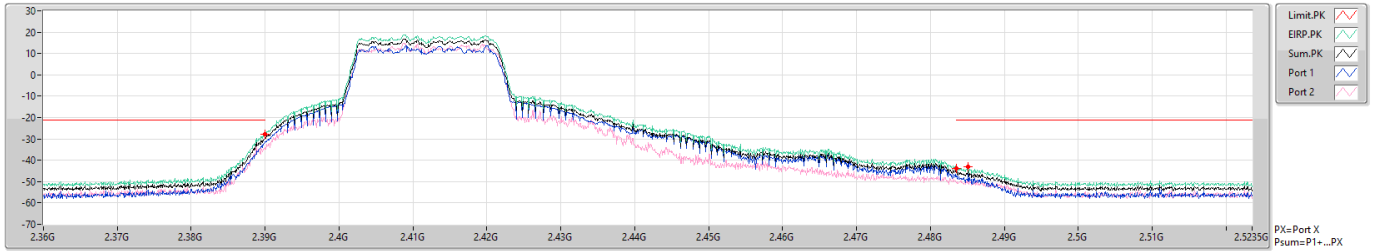
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

## 802.11ax HEW20\_Nss2,(MCS0)\_2TX

2412MHz

CSE [PK]

26/07/2021



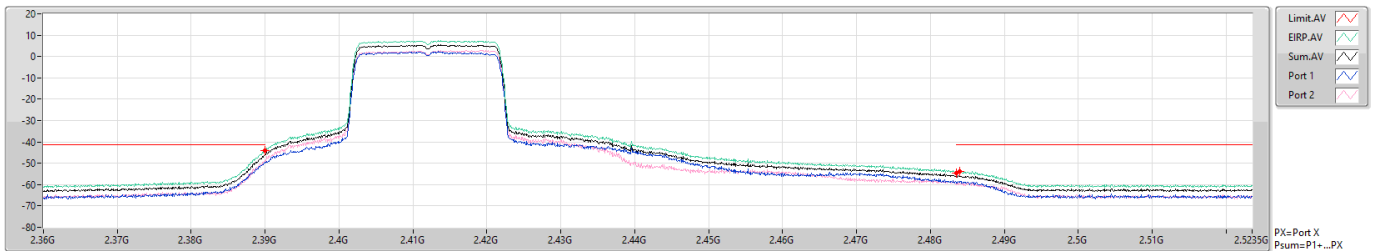
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.38992G | -27.74    | -21.20     | -6.54      | 2.00   | 0.00    | -29.74    | -31.86  | -33.87  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -43.92    | -21.20     | -22.72     | 2.00   | 0.00    | -45.92    | -47.76  | -50.54  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.4851G  | -43.15    | -21.20     | -21.95     | 2.00   | 0.00    | -45.15    | -46.62  | -50.56  |

## 802.11ax HEW20\_Nss2,(MCS0)\_2TX

2412MHz

CSE [AV]

26/07/2021

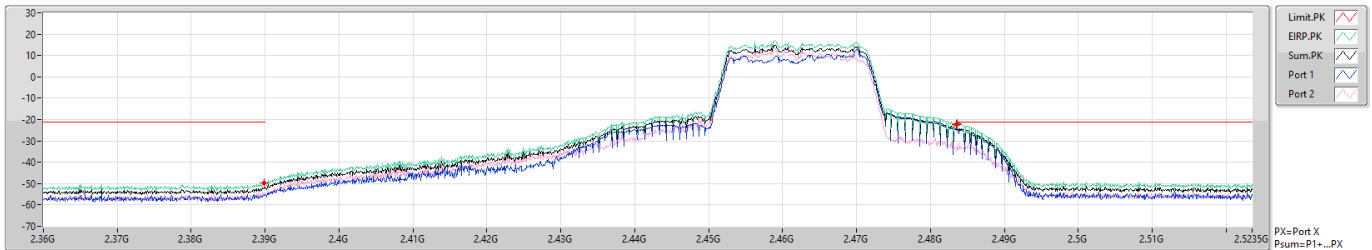


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.39G    | -44.01    | -41.20     | -2.81      | 2.00   | 0.00    | -46.01    | -49.47  | -48.61  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -54.59    | -41.20     | -13.39     | 2.00   | 0.00    | -56.59    | -59.04  | -60.25  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.4839G  | -53.90    | -41.20     | -12.70     | 2.00   | 0.00    | -55.90    | -58.67  | -59.17  |

## 802.11ax HEW20\_Nss2,(MCS0)\_2TX

2462MHz

CSE [PK]

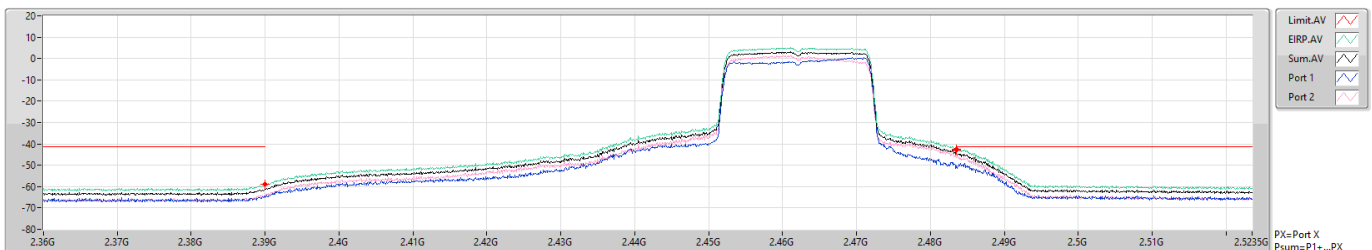


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | PK   | 2.38994G | -49.88    | -21.20     | -28.68     | 2.00   | 0.00    | -51.88    | -55.58  | -54.30  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G  | -22.40    | -21.20     | -1.20      | 2.00   | 0.00    | -24.40    | -24.98  | -33.47  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.48366G | -22.09    | -21.20     | -0.89      | 2.00   | 0.00    | -24.09    | -24.71  | -32.88  |

## 802.11ax HEW20\_Nss2,(MCS0)\_2TX

2462MHz

CSE [AV]



| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz) | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 2.36G       | 2.4G       | 1M      | AV   | 2.39G    | -58.84    | -41.20     | -17.64     | 2.00   | 0.00    | -60.84    | -64.37  | -63.38  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G  | -43.01    | -41.20     | -1.81      | 2.00   | 0.00    | -45.01    | -50.32  | -46.52  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.4835G  | -42.58    | -41.20     | -1.38      | 2.00   | 0.00    | -44.58    | -51.23  | -45.64  |

**Summary**

| Mode                           | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 2.4-2.4835GHz                  | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 802.11ax HEW20_Nss2,(MCS0)_2TX | Pass   | 7.5G            | 25G            | AV   | 19.82875G    | 2.00        | -64.69      | -64.74      | -61.70        | -59.70        | -41.20         | -18.50         |

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

**Result**

| Mode                           | Result | F-Start<br>(Hz) | F-Stop<br>(Hz) | Type | Freq<br>(Hz) | DG<br>(dBi) | P1<br>(dBm) | P2<br>(dBm) | Psum<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------|--------|-----------------|----------------|------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|----------------|
| 802.11ax HEW20_Nss2.(MCS0)_2TX | -      | -               | -              | -    | -            | -           | -           | -           | -             | -             | -              | -              |
| 2412MHz                        | Pass   | 1G              | 2.36G          | AV   | 2.31954G     | 2.00        | -76.61      | -75.82      | -73.19        | -71.19        | -41.20         | -29.99         |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.37488G     | 2.00        | -75.83      | -76.01      | -72.91        | -70.91        | -41.20         | -29.71         |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 2.00        | -76.07      | -76.71      | -73.37        | -71.37        | -41.20         | -30.17         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.4883G      | 2.00        | -75.25      | -75.14      | -72.18        | -70.18        | -41.20         | -28.98         |
| 2412MHz                        | Pass   | 2.5235G         | 2.9G           | AV   | 2.71523G     | 2.00        | -76.00      | -74.98      | -72.45        | -70.45        | -41.20         | -29.25         |
| 2412MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 4.82223G     | 2.00        | -71.96      | -72.78      | -69.34        | -67.34        | -41.20         | -26.14         |
| 2412MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 7.27805G     | 2.00        | -69.90      | -70.94      | -67.38        | -65.38        | -41.20         | -24.18         |
| 2412MHz                        | Pass   | 7.5G            | 25G            | AV   | 19.82875G    | 2.00        | -64.69      | -64.74      | -61.70        | -59.70        | -41.20         | -18.50         |
| 2412MHz                        | Pass   | 1G              | 2.36G          | PK   | 1.77503G     | 2.00        | -65.70      | -67.55      | -63.52        | -61.52        | -21.20         | -40.32         |
| 2412MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.38576G     | 2.00        | -64.84      | -66.99      | -62.77        | -60.77        | -21.20         | -39.57         |
| 2412MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 2.00        | -67.61      | -66.53      | -64.03        | -62.03        | -21.20         | -40.83         |
| 2412MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.51534G     | 2.00        | -66.88      | -63.52      | -61.87        | -59.87        | -21.20         | -38.67         |
| 2412MHz                        | Pass   | 2.5235G         | 2.9G           | PK   | 2.62487G     | 2.00        | -66.30      | -64.19      | -62.11        | -60.11        | -21.20         | -38.91         |
| 2412MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 4.8228G      | 2.00        | -62.76      | -63.59      | -60.14        | -58.14        | -21.20         | -36.94         |
| 2412MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 7.28495G     | 2.00        | -61.74      | -59.65      | -57.56        | -55.56        | -21.20         | -34.36         |
| 2412MHz                        | Pass   | 7.5G            | 25G            | PK   | 18.85094G    | 2.00        | -54.18      | -59.54      | -53.07        | -51.07        | -21.20         | -29.87         |
| 2462MHz                        | Pass   | 1G              | 2.36G          | AV   | 2.33841G     | 2.00        | -76.60      | -76.47      | -73.52        | -71.52        | -41.20         | -30.32         |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | AV   | 2.3816G      | 2.00        | -75.74      | -76.14      | -72.93        | -70.93        | -41.20         | -29.73         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | AV   | 2.4835G      | 2.00        | -76.35      | -76.22      | -73.27        | -71.27        | -41.20         | -30.07         |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | AV   | 2.5115G      | 2.00        | -75.08      | -75.17      | -72.11        | -70.11        | -41.20         | -28.91         |
| 2462MHz                        | Pass   | 2.5235G         | 2.9G           | AV   | 2.64389G     | 2.00        | -76.65      | -74.46      | -72.41        | -70.41        | -41.20         | -29.21         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 4.92343G     | 2.00        | -71.93      | -72.01      | -68.96        | -66.96        | -41.20         | -25.76         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | AV   | 7.2907G      | 2.00        | -70.46      | -70.10      | -67.27        | -65.27        | -41.20         | -24.07         |
| 2462MHz                        | Pass   | 7.5G            | 25G            | AV   | 19.83313G    | 2.00        | -64.57      | -64.92      | -61.73        | -59.73        | -41.20         | -18.53         |
| 2462MHz                        | Pass   | 1G              | 2.36G          | PK   | 2.14172G     | 2.00        | -66.20      | -68.21      | -64.08        | -62.08        | -21.20         | -40.88         |
| 2462MHz                        | Pass   | 2.36G           | 2.4G           | PK   | 2.37264G     | 2.00        | -66.07      | -66.20      | -63.12        | -61.12        | -21.20         | -39.92         |
| 2462MHz                        | Pass   | 2.4G            | 2.4835G        | PK   | 2.4835G      | 2.00        | -67.57      | -67.04      | -64.29        | -62.29        | -21.20         | -41.09         |
| 2462MHz                        | Pass   | 2.4835G         | 2.5235G        | PK   | 2.48942G     | 2.00        | -64.66      | -65.52      | -62.06        | -60.06        | -21.20         | -38.86         |
| 2462MHz                        | Pass   | 2.5235G         | 2.9G           | PK   | 2.66902G     | 2.00        | -65.59      | -64.89      | -62.22        | -60.22        | -21.20         | -39.02         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 4.9194G      | 2.00        | -64.00      | -61.83      | -59.77        | -57.77        | -21.20         | -36.57         |
| 2462MHz                        | Pass   | 2.9G            | 7.5G           | PK   | 7.4563G      | 2.00        | -63.69      | -59.39      | -58.02        | -56.02        | -21.20         | -34.82         |
| 2462MHz                        | Pass   | 7.5G            | 25G            | PK   | 15.77969G    | 2.00        | -54.74      | -56.38      | -52.47        | -50.47        | -21.20         | -29.27         |

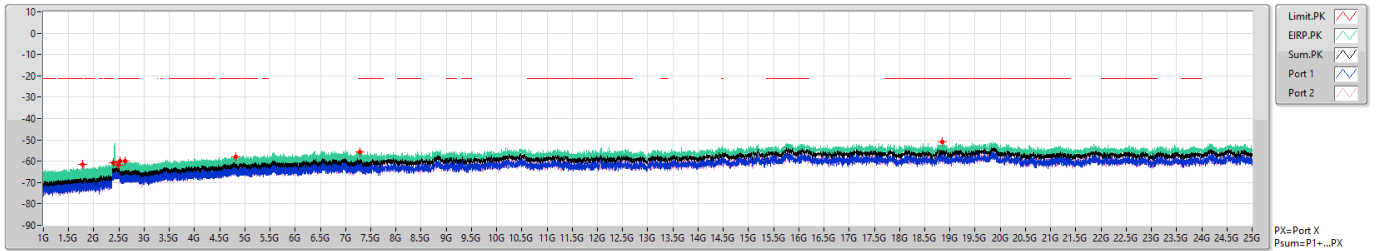
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

2412MHz

CSE [PK]

27/07/2021



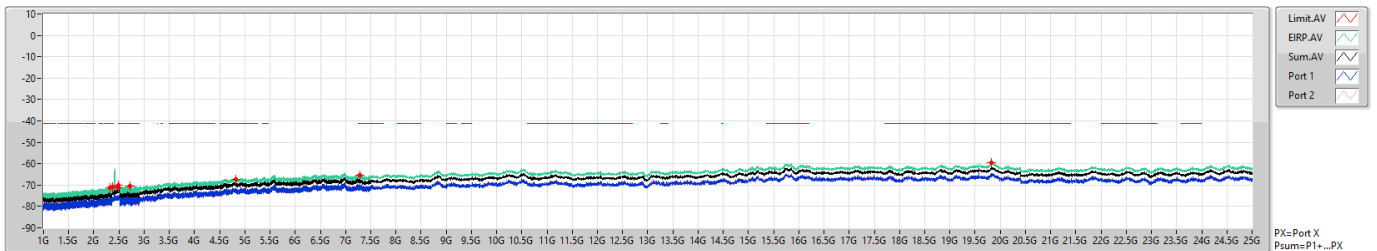
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 1.77503G  | -61.52    | -21.20     | -40.32     | 2.00   | 0.00    | -63.52    | -65.70  | -67.55  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.38576G  | -60.77    | -21.20     | -39.57     | 2.00   | 0.00    | -62.77    | -64.84  | -66.99  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G   | -62.03    | -21.20     | -40.83     | 2.00   | 0.00    | -64.03    | -67.61  | -66.53  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.51534G  | -59.87    | -21.20     | -38.67     | 2.00   | 0.00    | -61.87    | -66.88  | -63.52  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.62487G  | -60.11    | -21.20     | -38.91     | 2.00   | 0.00    | -62.11    | -66.30  | -64.19  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.8228G   | -58.14    | -21.20     | -36.94     | 2.00   | 0.00    | -60.14    | -62.76  | -63.59  |
| 3.9G        | 7.5G       | 1M      | PK   | 7.28495G  | -55.56    | -21.20     | -34.36     | 2.00   | 0.00    | -57.56    | -61.74  | -59.65  |
| 7.5G        | 25G        | 1M      | PK   | 18.85094G | -51.07    | -21.20     | -29.87     | 2.00   | 0.00    | -53.07    | -54.18  | -59.54  |

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

2412MHz

CSE [AV]

27/07/2021

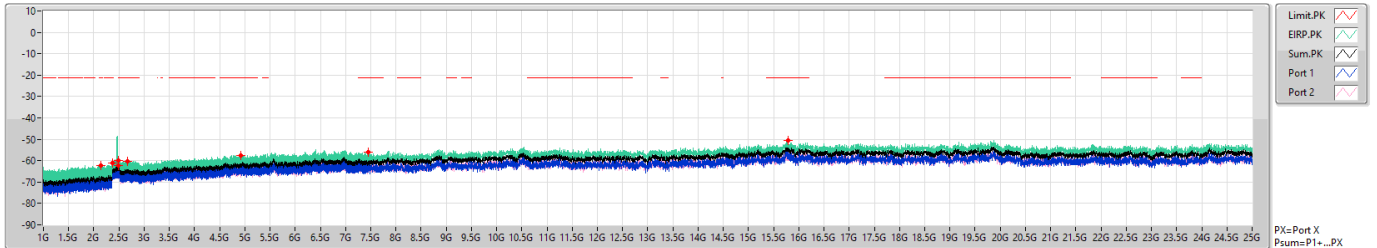


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.31954G  | -71.19    | -41.20     | -29.99     | 2.00   | 0.00    | -73.19    | -76.61  | -75.82  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.37488G  | -70.91    | -41.20     | -29.71     | 2.00   | 0.00    | -72.91    | -75.83  | -76.01  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G   | -71.37    | -41.20     | -30.17     | 2.00   | 0.00    | -73.37    | -76.07  | -76.71  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.4883G   | -70.18    | -41.20     | -28.98     | 2.00   | 0.00    | -72.18    | -75.25  | -75.14  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.71823G  | -70.45    | -41.20     | -29.25     | 2.00   | 0.00    | -72.45    | -76.00  | -74.98  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.82223G  | -67.34    | -41.20     | -26.14     | 2.00   | 0.00    | -69.34    | -71.96  | -72.78  |
| 3.9G        | 7.5G       | 1M      | AV   | 7.27805G  | -65.38    | -41.20     | -24.18     | 2.00   | 0.00    | -67.38    | -69.90  | -70.94  |
| 7.5G        | 25G        | 1M      | AV   | 18.82875G | -59.70    | -41.20     | -18.50     | 2.00   | 0.00    | -61.70    | -64.69  | -64.74  |

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX 2462MHz

CSE [PK]

27/07/2021

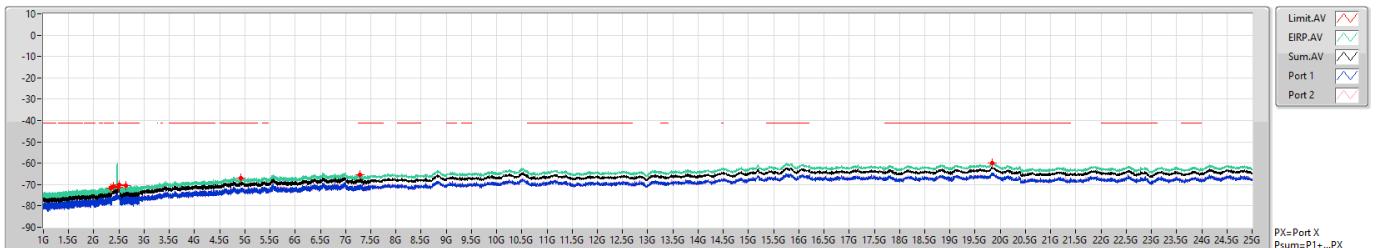


| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | PK   | 2.14172G  | -62.08    | -21.20     | -40.88     | 2.00   | 0.00    | -64.08    | -66.20  | -68.21  |
| 2.36G       | 2.4G       | 1M      | PK   | 2.37264G  | -61.12    | -21.20     | -39.92     | 2.00   | 0.00    | -63.12    | -66.07  | -66.20  |
| 2.4G        | 2.4835G    | 1M      | PK   | 2.4835G   | -62.29    | -21.20     | -41.09     | 2.00   | 0.00    | -64.29    | -67.57  | -67.04  |
| 2.4835G     | 2.5235G    | 1M      | PK   | 2.48942G  | -60.06    | -21.20     | -38.86     | 2.00   | 0.00    | -62.06    | -64.66  | -65.52  |
| 2.5235G     | 2.9G       | 1M      | PK   | 2.66902G  | -60.22    | -21.20     | -39.02     | 2.00   | 0.00    | -62.22    | -65.59  | -64.89  |
| 2.9G        | 7.5G       | 1M      | PK   | 4.9194G   | -57.77    | -21.20     | -36.57     | 2.00   | 0.00    | -59.77    | -64.00  | -61.83  |
| 2.9G        | 7.5G       | 1M      | PK   | 7.4563G   | -56.02    | -21.20     | -34.82     | 2.00   | 0.00    | -58.02    | -63.69  | -59.39  |
| 7.5G        | 25G        | 1M      | PK   | 15.77969G | -50.47    | -21.20     | -29.27     | 2.00   | 0.00    | -52.47    | -54.74  | -56.38  |

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX 2462MHz

CSE [AV]

27/07/2021



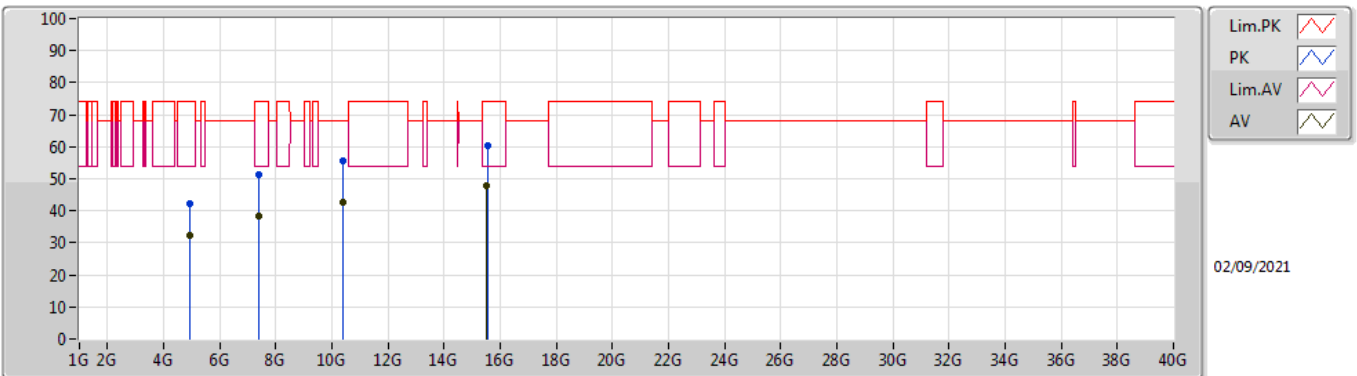
| F-Start(Hz) | F-Stop(Hz) | RBW(Hz) | Type | Freq(Hz)  | EIRP(dBm) | Limit(dBm) | Margin(dB) | DG(dB) | Ref(dB) | Psum(dBm) | P1(dBm) | P2(dBm) |
|-------------|------------|---------|------|-----------|-----------|------------|------------|--------|---------|-----------|---------|---------|
| 1G          | 2.36G      | 1M      | AV   | 2.33841G  | -71.52    | -41.20     | -30.32     | 2.00   | 0.00    | -73.52    | -76.60  | -76.47  |
| 2.36G       | 2.4G       | 1M      | AV   | 2.3816G   | -70.93    | -41.20     | -29.73     | 2.00   | 0.00    | -72.93    | -75.74  | -76.14  |
| 2.4G        | 2.4835G    | 1M      | AV   | 2.4835G   | -71.27    | -41.20     | -30.07     | 2.00   | 0.00    | -73.27    | -76.35  | -76.22  |
| 2.4835G     | 2.5235G    | 1M      | AV   | 2.5115G   | -70.11    | -41.20     | -28.91     | 2.00   | 0.00    | -72.11    | -75.08  | -75.17  |
| 2.5235G     | 2.9G       | 1M      | AV   | 2.64389G  | -70.41    | -41.20     | -29.21     | 2.00   | 0.00    | -72.41    | -76.65  | -74.46  |
| 2.9G        | 7.5G       | 1M      | AV   | 4.92343G  | -66.96    | -41.20     | -25.76     | 2.00   | 0.00    | -68.96    | -71.93  | -72.01  |
| 2.9G        | 7.5G       | 1M      | AV   | 7.2907G   | -65.27    | -41.20     | -24.07     | 2.00   | 0.00    | -67.27    | -70.46  | -70.10  |
| 7.5G        | 25G        | 1M      | AV   | 19.83313G | -59.73    | -41.20     | -18.53     | 2.00   | 0.00    | -61.73    | -64.37  | -64.92  |



**Summary**

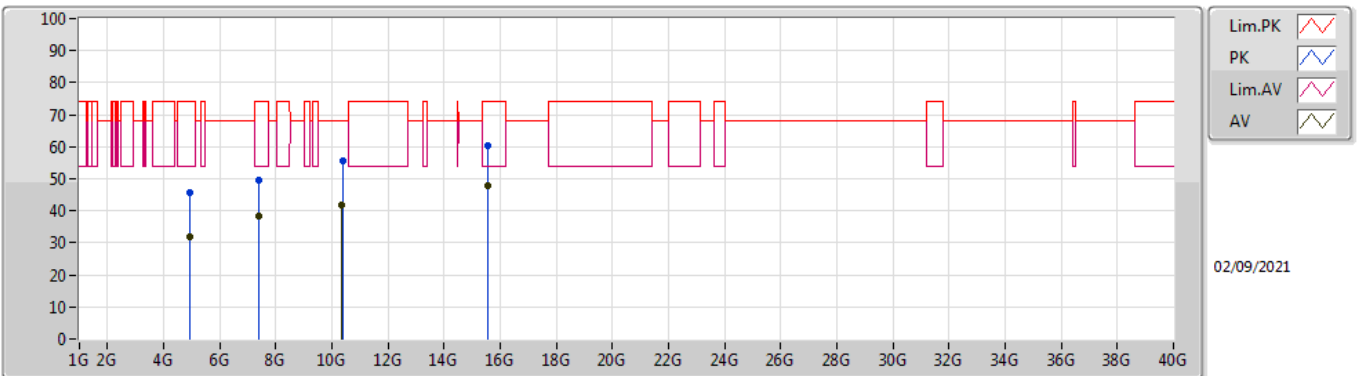
| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-------------------|-------------------|----------------|-----------|
| Mode 1 | Pass   | AV   | 15.53192G    | 47.85             | 54.00             | -6.15          | Vertical  |

## Radiated Emissions above 1GHz\_Mode 1



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB/m) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV/m) | AF<br>(dB/m) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|-----------|----------------|---------------|---------|-----------------|--------------|------------|------------|
| AV   | 4.92389G     | 32.15             | 54.00             | -21.85         | 8.39             | 3           | Vertical  | 331            | 1.02          | -       | 23.76           | 31.25        | 6.33       | 29.19      |
| AV   | 7.38663G     | 38.23             | 54.00             | -15.77         | 14.02            | 3           | Vertical  | 315            | 1.45          | -       | 24.21           | 36.13        | 8.11       | 30.22      |
| AV   | 10.36948G    | 42.56             | 68.20             | -25.64         | 18.64            | 3           | Vertical  | 360            | 1.50          | -       | 23.92           | 39.48        | 9.51       | 30.35      |
| AV   | 15.53192G    | 47.85             | 54.00             | -6.15          | 18.71            | 3           | Vertical  | 77             | 1.83          | -       | 29.14           | 38.11        | 11.63      | 31.03      |
| PK   | 4.92073G     | 42.13             | 74.00             | -31.87         | 8.37             | 3           | Vertical  | 331            | 1.02          | -       | 33.76           | 31.24        | 6.33       | 29.20      |
| PK   | 7.38234G     | 51.13             | 74.00             | -22.87         | 14.04            | 3           | Vertical  | 315            | 1.45          | -       | 37.09           | 36.14        | 8.12       | 30.22      |
| PK   | 10.36948G    | 55.81             | 68.20             | -12.39         | 18.64            | 3           | Vertical  | 360            | 1.50          | -       | 37.17           | 39.48        | 9.51       | 30.35      |
| PK   | 15.54152G    | 60.38             | 74.00             | -13.62         | 18.66            | 3           | Vertical  | 77             | 1.83          | -       | 41.72           | 38.05        | 11.64      | 31.03      |

## Radiated Emissions above 1GHz\_Mode 1



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB/m) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV/m) | AF<br>(dB/m) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|------------|----------------|---------------|---------|-----------------|--------------|------------|------------|
| AV   | 4.92405G     | 32.06             | 54.00             | -21.94         | 8.39             | 3           | Horizontal | 292            | 1.50          | -       | 23.67           | 31.25        | 6.33       | 29.19      |
| AV   | 7.38819G     | 38.21             | 54.00             | -15.79         | 14.01            | 3           | Horizontal | 75             | 2.35          | -       | 24.20           | 36.12        | 8.11       | 30.22      |
| AV   | 10.34833G    | 41.86             | 68.20             | -26.34         | 18.55            | 3           | Horizontal | 360            | 1.50          | -       | 23.31           | 39.39        | 9.50       | 30.34      |
| AV   | 15.53557G    | 47.73             | 54.00             | -6.27          | 18.69            | 3           | Horizontal | 266            | 2.50          | -       | 29.04           | 38.09        | 11.63      | 31.03      |
| PK   | 4.9221G      | 45.64             | 74.00             | -28.36         | 8.38             | 3           | Horizontal | 292            | 1.50          | -       | 37.26           | 31.24        | 6.33       | 29.19      |
| PK   | 7.396G       | 49.38             | 74.00             | -24.62         | 13.99            | 3           | Horizontal | 75             | 2.35          | -       | 35.39           | 36.11        | 8.11       | 30.23      |
| PK   | 10.37583G    | 55.73             | 68.20             | -12.47         | 18.66            | 3           | Horizontal | 360            | 1.50          | -       | 37.07           | 39.50        | 9.51       | 30.35      |
| PK   | 15.53855G    | 60.54             | 74.00             | -13.46         | 18.67            | 3           | Horizontal | 266            | 2.50          | -       | 41.87           | 38.07        | 11.63      | 31.03      |