



# RADIO TEST REPORT

FCC ID : 2AHBN-AP45  
Equipment : 802.11ax 6E Wireless Access Point  
Brand Name : Juniper  
Model Name : AP45,AP45E  
Applicant : Juniper Networks, Inc.  
1133 Innovation Way Sunnyvale, California 94089  
USA  
Manufacturer : Juniper Networks, Inc.  
1133 Innovation Way Sunnyvale, California 94089  
USA  
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 19, 2021, and testing was started from Oct. 23 , 2021 and completed on Apr. 14, 2022. We, Sporton International Inc. Hsinchu 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 variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

**Sporton International Inc. Hsinchu Laboratory**

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## History of this test report

TEL : 886-3-656-9065  
FAX : 886-3-656-9085  
Report Template No.: CB-A10\_10 Ver1.3

Page Number : 3 of 42  
Issued Date : Apr. 27, 2022  
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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               | -      |
| Note: Reference to Sporton Project No.: 182421-01. |                 |                                             |                    |        |

**Declaration of Conformity:**

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Sam Chen****Report Producer: Wendy Pan**



# 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,<br>ax (HEW20) | 2412-2462           | 1-11 [11]      |
| 2400-2483.5           | n (HT40), VHT40,<br>ax (HEW40)       | 2422-2452           | 3-9 [7]        |

#### For Radio 2

| Band          | Mode              | BWch (MHz) | Nant |
|---------------|-------------------|------------|------|
| 2.4-2.4835GHz | 802.11b           | 20         | 4TX  |
| 2.4-2.4835GHz | 802.11g           | 20         | 4TX  |
| 2.4-2.4835GHz | 802.11n HT20      | 20         | 4TX  |
| 2.4-2.4835GHz | 802.11n HT20-BF   | 20         | 4TX  |
| 2.4-2.4835GHz | VHT20             | 20         | 4TX  |
| 2.4-2.4835GHz | VHT20-BF          | 20         | 4TX  |
| 2.4-2.4835GHz | 802.11ax HEW20    | 20         | 4TX  |
| 2.4-2.4835GHz | 802.11ax HEW20-BF | 20         | 4TX  |
| 2.4-2.4835GHz | 802.11n HT40      | 40         | 4TX  |
| 2.4-2.4835GHz | 802.11n HT40-BF   | 40         | 4TX  |
| 2.4-2.4835GHz | VHT40             | 40         | 4TX  |
| 2.4-2.4835GHz | VHT40-BF          | 40         | 4TX  |
| 2.4-2.4835GHz | 802.11ax HEW40    | 40         | 4TX  |
| 2.4-2.4835GHz | 802.11ax HEW40-BF | 40         | 4TX  |

#### For scanning radio 4

| Band          | Mode           | BWch (MHz) | Nant |
|---------------|----------------|------------|------|
| 2.4-2.4835GHz | 802.11b        | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11g        | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11n HT20   | 20         | 1TX  |
| 2.4-2.4835GHz | VHT20          | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11ax HEW20 | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11n HT40   | 40         | 1TX  |
| 2.4-2.4835GHz | VHT40          | 40         | 1TX  |
| 2.4-2.4835GHz | 802.11ax HEW40 | 40         | 1TX  |



**Note:**

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.


**1.1.2 Antenna Information**

| Ant. | Port                |                       |                     |                     |                       |                     |                     |              | Brand Name | Model Name                  | Ant. Type | Connector        | Equip EUT    | Gain (dBi) |
|------|---------------------|-----------------------|---------------------|---------------------|-----------------------|---------------------|---------------------|--------------|------------|-----------------------------|-----------|------------------|--------------|------------|
|      | WLAN 5GHz (Radio 1) | WLAN 2.4GHz (Radio 2) | WLAN 5GHz (Radio 2) | WLAN 6GHz (Radio 3) | WLAN 2.4GHz (Radio 4) | WLAN 5GHz (Radio 4) | WLAN 6GHz (Radio 4) | BT (Radio 5) |            |                             |           |                  |              |            |
| 1    | 1                   | 4                     | -                   | -                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            | EUT 1        | Note1      |
| 2    | 2                   | 3                     | -                   | -                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 3    | 3                   | 2                     | -                   | -                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 4    | 4                   | 1                     | -                   | -                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 5    | -                   | -                     | 1                   | -                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 6    | -                   | -                     | 2                   | -                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 7    | -                   | -                     | 3                   | -                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 8    | -                   | -                     | 4                   | -                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 9    | -                   | -                     | -                   | 1                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 10   | -                   | -                     | -                   | 2                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 11   | -                   | -                     | -                   | 3                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 12   | -                   | -                     | -                   | 4                   | -                     | -                   | -                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 13   | -                   | -                     | -                   | -                   | 1                     | 1                   | 1                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 14   | -                   | -                     | -                   | -                   | 2                     | 2                   | 2                   | -            | Juniper    | AP45                        | PIFA      | I-PEX            |              |            |
| 15   | -                   | -                     | -                   | -                   | -                     | -                   | -                   | 1            | Juniper    | AP45                        | PIFA      | I-PEX            | EUT 1, EUT 2 |            |
| 16   | 1                   | 4                     | -                   | -                   | -                     | -                   | -                   | -            | Acce lTex  | ATS-OO-2 456-466-1 OMC-36   | OMNI      | 4-Port connector | EUT 2        |            |
|      | 2                   | 3                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
|      | 3                   | 2                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
|      | 4                   | 1                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
| 17   | 1                   | 4                     | -                   | -                   | -                     | -                   | -                   | -            | Acce lTex  | ATS-OP-2 456-81010 -10MC-36 | Panel     | 4-Port connector |              |            |
|      | 2                   | 3                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
|      | 3                   | 2                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
|      | 4                   | 1                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
| 18   | 1                   | 4                     | -                   | -                   | -                     | -                   | -                   | -            | Acce lTex  | ATS-OO-2 456-466-1 OMC-36   | OMNI      | 6-Port connector |              |            |
|      | 2                   | 3                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
|      | 3                   | 2                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
|      | 4                   | 1                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
| 19   | 1                   | 4                     | -                   | -                   | -                     | -                   | -                   | -            | Acce lTex  | ATS-OO-2 456-466-1 OMC-36   | Panel     | 6-Port connector |              |            |
|      | 2                   | 3                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
|      | 3                   | 2                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |
|      | 4                   | 1                     | -                   | -                   | -                     | -                   | -                   | -            |            |                             |           |                  |              |            |



Note 1:

| Ant. | Antenna Gain (dBi)     |            |            |           |                             |                           |            |                        |           |           |           |                             |                        |            |            |           |                        |           |           |           |                        |
|------|------------------------|------------|------------|-----------|-----------------------------|---------------------------|------------|------------------------|-----------|-----------|-----------|-----------------------------|------------------------|------------|------------|-----------|------------------------|-----------|-----------|-----------|------------------------|
|      | WLAN 5GHz<br>(Radio 1) |            |            |           | WLAN<br>2.4GHz<br>(Radio 2) | WLAN<br>5GHz<br>(Radio 2) |            | WLAN 6GHz<br>(Radio 3) |           |           |           | WLAN<br>2.4GHz<br>(Radio 4) | WLAN 5GHz<br>(Radio 4) |            |            |           | WLAN 6GHz<br>(Radio 4) |           |           |           | Bluetooth<br>(Radio 5) |
|      | UNII<br>1              | UNII<br>2A | UNII<br>2C | UNII<br>3 |                             | UNII<br>1                 | UNII<br>2A | UNII<br>5              | UNII<br>6 | UNII<br>7 | UNII<br>8 |                             | UNII<br>1              | UNII<br>2A | UNII<br>2C | UNII<br>3 | UNII<br>5              | UNII<br>6 | UNII<br>7 | UNII<br>8 |                        |
| 1    | 2.89                   | 3.7        | 3.46       | 2.39      | 2.01                        | -                         | -          | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 2    | 2.61                   | 2.55       | 3.04       | 3.8       | 0.66                        | -                         | -          | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 3    | 1.94                   | 2.2        | 2.82       | 2.54      | 2.04                        | -                         | -          | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 4    | 3.27                   | 4.06       | 2.87       | 2.17      | 1.17                        | -                         | -          | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 5    | -                      | -          | -          | -         | -                           | 3.2                       | 3.56       | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 6    | -                      | -          | -          | -         | -                           | 2.85                      | 3.77       | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 7    | -                      | -          | -          | -         | -                           | 3.37                      | 3.23       | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 8    | -                      | -          | -          | -         | -                           | 3.11                      | 3.68       | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 9    | -                      | -          | -          | -         | -                           | -                         | -          | 4.9                    | 5.4       | 5.4       | 5.6       | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 10   | -                      | -          | -          | -         | -                           | -                         | -          | 4.9                    | 5.4       | 5.4       | 5.6       | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 11   | -                      | -          | -          | -         | -                           | -                         | -          | 4.9                    | 5.4       | 5.4       | 5.6       | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 12   | -                      | -          | -          | -         | -                           | -                         | -          | 4.9                    | 5.4       | 5.4       | 5.6       | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 13   | -                      | -          | -          | -         | -                           | -                         | -          | -                      | -         | -         | -         | 5.0                         | 5.4                    | 5.4        | 5.5        | 5.3       | 4.7                    | 4.8       | 4.8       | 4.1       | -                      |
| 14   | -                      | -          | -          | -         | -                           | -                         | -          | -                      | -         | -         | -         | 5.0                         | 5.4                    | 5.4        | 5.5        | 5.3       | 4.7                    | 4.8       | 4.8       | 4.1       | -                      |
| 15   | -                      | -          | -          | -         | -                           | -                         | -          | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | 4.5       |                        |
| 16   | 6                      | 6          | 6          | 6         | 4                           | -                         | -          | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 17   | 10                     | 10         | 10         | 10        | 8                           | -                         | -          | -                      | -         | -         | -         | -                           | -                      | -          | -          | -         | -                      | -         | -         | -         |                        |
| 18   | -                      | -          | -          | -         | -                           | -                         | -          | 6                      | 6         | 6         | 6         | 4                           | 6                      | 6          | 6          | 6         | 6                      | 6         | 6         | 6         | -                      |
| 19   | -                      | -          | -          | -         | -                           | -                         | -          | 10                     | 10        | 10        | 10        | 8                           | 10                     | 10         | 10         | 10        | 10                     | 10        | 10        | 10        | -                      |

| Ant. | Directional Gain (dBi) |         |         |        |                       |                     |         |
|------|------------------------|---------|---------|--------|-----------------------|---------------------|---------|
|      | WLAN 5GHz (Radio 1)    |         |         |        | WLAN 2.4GHz (Radio 2) | WLAN 5GHz (Radio 2) |         |
|      | UNII 1                 | UNII 2A | UNII 2C | UNII 3 |                       | UNII 1              | UNII 2A |
| 1    | 6.44                   | 6.41    | 7.19    | 6.67   | 4.23                  | -                   | -       |
| 2    |                        |         |         |        |                       | -                   | -       |
| 3    |                        |         |         |        |                       | -                   | -       |
| 4    |                        |         |         |        |                       | -                   | -       |
| 5    | -                      | -       | -       | -      | -                     | 7.7                 | 8.16    |
| 6    | -                      | -       | -       | -      | -                     |                     |         |
| 7    | -                      | -       | -       | -      | -                     |                     |         |
| 8    | -                      | -       | -       | -      | -                     |                     |         |

Note 2: The EUT has nineteen antennas. The ant.15 is BLE Array (Beam 1~Beam 9 and Omni).

Antenna 16 must be used with antenna 18 and antenna 17 must be used with antenna 19.

Note 3: The above information was declared by manufacturer.

Note 4: **For Radio 2**

**For 2.4GHz:**

**For IEEE 802.11b/g/n/VHT/ax mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 1**

**For 5GHz UNII 1~3:**

**For IEEE 802.11a/n/ac/ax mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 2**

**For 5GHz UNII 1~2A:**

**For IEEE 802.11a/n/ac/ax mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 3**

**For 6E UNII 5~8 (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.



Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For scanning Radio 4****For 2.4GHz, IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):**

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 for EUT 1 and EUT 2 + Ant. 18 generated the worst case, so it was selected to test and record in the report.

The Port 1 for EUT 2 + Ant. 19 generated the worst case, so it was selected to test and record in the report.

**For 5GHz UNII 1~3, IEEE 802.11a/n/ac/ax mode (1TX/2RX):**

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 for EUT 1 and EUT 2 + Ant. 18 generated the worst case, so it was selected to test and record in the report.

The Port 1 for EUT 2 + Ant. 19 generated the worst case, so it was selected to test and record in the report.

**For 6E UNII 5~8, IEEE 802.11ax mode (1TX/2RX):**

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 generated the worst case, so it was selected to test and record in the report.

**For Radio 5****Bluetooth (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

Note 5: For EUT 1:

Radio 1, 2: Maximum Directional Gain following KDB662911 D03. The antenna report is provided in the operational description for this application.

For EUT 2: Maximum Directional Gain following KDB662911 D01.

For Radio 1 5GHz UNII 1~3 + Antenna 16:

For Radio 2 2.4GHz + Antenna 16:

Directional gain information

| Type   | Maximum Output Power                                                                                                                                        | Power Spectral Density                                                                                                                  |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Non-BF | Directional gain = Max. gain + array gain.<br>For power measurements on IEEE 802.11 devices<br>Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$ | $Directional\ IGain = 10 \cdot \log \left[ \frac{\sum_{i=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$ |
| BF     | $Directional\ IGain = 10 \cdot \log \left[ \frac{\sum_{i=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$                     | $Directional\ IGain = 10 \cdot \log \left[ \frac{\sum_{i=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$ |

Ex.

Directional Gain (NSS1) formula :

$$Directional\ IGain = 10 \cdot \log \left[ \frac{\sum_{i=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log [(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log [(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G\ G1 = 4 ; G2 = 4 ; G3 = 4 ; G4 = 4 ;$$

$$5G\ G1 = 6 ; G2 = 6 ; G3 = 6 ; G4 = 6 ;$$

$$2.4G\ DG = 10.02\ dBi$$

$$5\ GHz\ U-NII-1\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-2A\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-2C\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-3\ DG = 12.02\ dBi$$

For Radio 1, 5GHz UNII 1~3 + Antenna 17:

For Radio 2, 2.4GHz + Antenna 17:

Directional gain information

| Type   | Maximum Output Power                                                                                                                                | Power Spectral Density                                                                                                                  |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Non-BF | Directional gain = Max.gain + array gain.<br>For power measurements on IEEE 802.11 devices<br>Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4 | $Directional\ Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ |
| BF     | $Directional\ Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$             | $Directional\ Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ |

Ex.

Directional Gain (NSS1) formula :

$$Directional\ Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G \ G1 = 8 ; G2 = 8 ; G3 = 8 ; G4 = 8 ;$$

$$5G \ G1 = 10 ; G2 = 10 ; G3 = 10 ; G4 = 10 ;$$

$$2.4G \ DG = 14.02 \text{ dBi}$$

$$5 \text{ GHz U-NII-1 } DG = 16.02 \text{ dBi}$$

$$5 \text{ GHz U-NII-2A } DG = 16.02 \text{ dBi}$$

$$5 \text{ GHz U-NII-2C } DG = 16.02 \text{ dBi}$$

$$5 \text{ GHz U-NII-3 } DG = 16.02 \text{ dBi}$$



### 1.1.3 Mode Test Duty Cycle

For EUT 2 Radio 4+Ant.18:

| Mode           | DC    | DCF(dB) | T(s)           | VBW(Hz) ≥ 1/T  |
|----------------|-------|---------|----------------|----------------|
| 802.11b        | 0.957 | 0.19    | 12.424m        | 100            |
| 802.11g        | 0.954 | 0.2     | 2.085m         | 1k             |
| 802.11ax HEW20 | 0.984 | 0.07    | n/a (DC>=0.98) | n/a (DC>=0.98) |
| 802.11ax HEW40 | 0.969 | 0.14    | 782.5u         | 3k             |

For EUT 2 Radio 4+Ant.19:

| Mode           | DC    | DCF(dB) | T(s)           | VBW(Hz) ≥ 1/T  |
|----------------|-------|---------|----------------|----------------|
| 802.11b        | 0.937 | 0.28    | 12.45m         | 100            |
| 802.11g        | 0.953 | 0.21    | 2.068m         | 1k             |
| 802.11ax HEW20 | 0.98  | 0.09    | n/a (DC>=0.98) | n/a (DC>=0.98) |
| 802.11ax HEW40 | 0.97  | 0.13    | 790u           | 3k             |

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

### 1.1.4 EUT Operational Condition

|                              |                                                                                                                                                                                          |                     |                          |                     |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|---------------------|
| <b>EUT Power Type</b>        | From PoE                                                                                                                                                                                 |                     |                          |                     |
| <b>Beamforming Function</b>  | <input checked="" type="checkbox"/>                                                                                                                                                      | With beamforming    | <input type="checkbox"/> | Without beamforming |
|                              | The product has beamforming function for n/VHT/ax in 2.4GHz of radio 2, n/ac/ax in 5GHz UNII 1~UNII 3 of radio 1, 5GHz UNII 1~UNII 2 of radio 2 and ax in 6GHz UNII 5~UNII 8 of radio 3. |                     |                          |                     |
| <b>Function</b>              | <input checked="" type="checkbox"/>                                                                                                                                                      | Point-to-multipoint | <input type="checkbox"/> | Point-to-point      |
| <b>Test Software Version</b> | accessMTool(version 3.2.1.5)                                                                                                                                                             |                     |                          |                     |

Note: The above information was declared by manufacturer.



### 1.1.5 Table for Multiple Listing

| Model Name | EUT | Antenna  | FEM of Radio 1<br>(WLAN 5GHz UNII 2C~3) | FEM of Radio 2<br>(WLAN 5GHz UNII 1~2A) |
|------------|-----|----------|-----------------------------------------|-----------------------------------------|
| AP45       | 1   | Internal | V                                       | V                                       |
| AP45E      | 2   | External | Unsupported                             | Unsupported                             |

Note 1: FEM means Front End Module

Note 2: The above information was declared by manufacturer.

### 1.1.6 Table for Configuration and Radio Function

| Configuration | EUT            | Radio 1                  | Radio 2                  | Radio 3     | Radio 4<br>(Scanning) | Radio 5     |
|---------------|----------------|--------------------------|--------------------------|-------------|-----------------------|-------------|
| 1             | EUT 1          | (WLAN 5GHz<br>UNII 1~3)  | (WLAN 2.4GHz)            | (WLAN 6GHz) | (WLAN 2.4GHz)         | (Bluetooth) |
| 2             | EUT 1          |                          |                          |             | (WLAN 5GHz)           |             |
| 3             | EUT 1          |                          |                          |             | (WLAN 6GHz)           |             |
| 4             | EUT 1<br>(FEM) | (WLAN 5GHz<br>UNII 2C~3) | (WLAN 5GHz<br>UNII 1~2A) |             | (WLAN 2.4GHz)         |             |
| 5             | EUT 1<br>(FEM) |                          |                          |             | (WLAN 5GHz)           |             |
| 6             | EUT 1<br>(FEM) |                          |                          |             | (WLAN 6GHz)           |             |
| 7             | EUT 2          | (WLAN 5GHz<br>UNII 1~3)  | (WLAN 2.4GHz)            |             | (WLAN 2.4GHz)         |             |
| 8             | EUT 2          |                          |                          |             | (WLAN 5GHz)           |             |
| 9             | EUT 2          |                          |                          |             | (WLAN 6GHz)           |             |

Note: The above information was declared by manufacturer.

### 1.1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR182421-01AA

Below is the table for the change of the product with respect to the original one.

| Modifications                                                                                                                                                                                                                                                                                                                                                          | Performance Checking                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For EUT 1:</b><br>1. Radio 1: enable UNII 2A, 2C.<br>2. Radio 2: enable UNII 2A.<br>3. Radio 4: enable UNII 2A, 2C, 6G.<br><b>For EUT 2:</b><br>1. Radio 1: enable UNII 2A, 2C.<br>2. Radio 3: enable 6G.<br>3. Radio 4: enable this radio, the function includes 2.4G, 5G UNII 1~3, 6G.<br>4. Adding two sets antenna for radio 3 and radio 4 (Antenna set 18~19). | 1. EUT 2 enable Radio 4 (2.4GHz), the test items as below:<br>a. DTS Bandwidth<br>b. Maximum Conducted Output Power<br>c. Power Spectral Density<br>d. Emissions in Non-restricted Frequency Bands<br>e. Emissions in Restricted Frequency Bands above 1GHz.<br>2. EUT 1 enable Radio 4 (6GHz), EUT 2 enable Radio 3 (6GHz), Radio 4 (2.4GHz+5GHz+6GHz), the test items as below:<br>a. AC Power-line Conducted Emissions<br>b. Emissions in Restricted Frequency Bands below 1GHz. |



## 1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

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

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 662911 D03 v01
- ♦ FCC KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location Information                              |                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Lab. : Sporton International Inc. Hsinchu Laboratory |                                                                                                                                                                                                                                                |
| Hsinchu<br>(TAF: 3787)                                    | ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)<br>TEL: 886-3-656-9065 FAX: 886-3-656-9085<br>Test site Designation No. TW3787 with FCC.<br>Conformity Assessment Body Identifier (CABID) TW3787 with ISED. |

| Test Condition                                  | Test Site No. | Test Engineer | Test Environment<br>(°C / %) | Test Date                       |
|-------------------------------------------------|---------------|---------------|------------------------------|---------------------------------|
| RF Conducted                                    | TH01-CB       | Owen Hsu      | 20.3~21.9 / 58~62            | Jan. 13, 2022~<br>Feb. 26, 2022 |
| Radiated below 1GHz<br>(Test Mode: Mode2~7)     | 03CH05-CB     | Ken Yeh       | 22.5~23.6 / 56~59            | Dec. 29, 2021                   |
| Radiated below 1GHz<br>(Test Mode: Mode1, 8, 9) | 03CH03-CB     | Eason Chen    | 24.2~26.1 / 55~58            | Mar. 30, 2022                   |
| Radiated Above 1GHz                             | 03CH02-CB     | Eason Chen    | 24.2~26.1 / 55~58            | Oct. 23, 2021~<br>Mar. 01, 2022 |
| Radiated Co-location                            | 03CH05-CB     | Eason Chen    | 24~25.1 / 56~59              | Dec. 29, 2021~<br>Apr. 14, 2022 |
| AC Conduction<br>(Test Mode: Mode1-2)           | CO01-CB       | Joe Chu       | 20~22 / 60~62                | Apr. 07, 2022                   |
| AC Conduction<br>(Test Mode: Mode3-4)           | CO01-CB       | Peter Wu      | 22~23 / 55~56                | Nov. 15, 2021~<br>Jan. 04, 2022 |



## 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)  | 3.4 dB      | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 4.2 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 5.5 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 4.7 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 4.2 dB      | Confidence levels of 95% |
| Conducted Emission                   | 2.5 dB      | Confidence levels of 95% |
| Output Power Measurement             | 1.3 dB      | Confidence levels of 95% |
| Power Density Measurement            | 2.5 dB      | Confidence levels of 95% |
| Bandwidth Measurement                | 0.9%        | Confidence levels of 95% |



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

For EUT 2 Radio 4 + Ant.18:

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -             |
| 2412MHz                        | 81            |
| 2437MHz                        | 89            |
| 2462MHz                        | 80            |
| 802.11g_Nss1,(6Mbps)_1TX       | -             |
| 2412MHz                        | 73            |
| 2437MHz                        | 81            |
| 2462MHz                        | 71            |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -             |
| 2412MHz                        | 72            |
| 2437MHz                        | 77            |
| 2462MHz                        | 71            |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -             |
| 2422MHz                        | 66            |
| 2437MHz                        | 63            |
| 2452MHz                        | 68            |

**For EUT 2 Radio 4 + Ant.19:**

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -             |
| 2412MHz                        | 79            |
| 2437MHz                        | 84            |
| 2462MHz                        | 79            |
| 802.11g_Nss1,(6Mbps)_1TX       | -             |
| 2412MHz                        | 70            |
| 2437MHz                        | 80            |
| 2462MHz                        | 69            |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -             |
| 2412MHz                        | 70            |
| 2437MHz                        | 76            |
| 2462MHz                        | 68            |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -             |
| 2422MHz                        | 66            |
| 2437MHz                        | 61            |
| 2452MHz                        | 65            |

**Note:**

- ♦ Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- ♦ The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

## 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>                                                         | Normal Link                                                                                                                                                                                                |                         |                 |                |                 |                |                   |
|                                                                               | The EUT 1 performed testing at unsupported FEM and supported FEM mode<br>The unsupported FEM mode has been evaluated to be the worst case.<br>So the measurement will follow this same test configuration. |                         |                 |                |                 |                |                   |
|                                                                               | <b>EUT</b>                                                                                                                                                                                                 | <b>Radio 1</b>          | <b>Radio 2</b>  | <b>Radio 3</b> | <b>Radio 4</b>  | <b>Radio 5</b> | <b>Powered by</b> |
| 1                                                                             | EUT 1                                                                                                                                                                                                      | 5GHz Full band          | 2.4GHz          | 6GHz           | 6GHz            | Bluetooth      | PoE               |
| 2                                                                             | EUT 2                                                                                                                                                                                                      | 5GHz Full band (Ant.17) | 2.4GHz (Ant.17) | 6GHz (Ant.19)  | 6GHz (Ant.19)   | Bluetooth      | PoE               |
| 3                                                                             | EUT 2                                                                                                                                                                                                      | 5GHz Full band (Ant.17) | 2.4GHz (Ant.17) | 6GHz (Ant.19)  | 2.4GHz (Ant.19) | Bluetooth      | PoE               |
| 4                                                                             | EUT 2                                                                                                                                                                                                      | 5GHz Full band (Ant.17) | 2.4GHz (Ant.17) | 6GHz (Ant.19)  | 5GHz (Ant.19)   | Bluetooth      | PoE               |
| For operating mode 3 is the worst case and it was record in this test report. |                                                                                                                                                                                                            |                         |                 |                |                 |                |                   |

| 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 |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains                                                                                 |
| 1                                                   | EUT 2 + Radio 4 + Ant.18                                                                                                 |
| 2                                                   | EUT 2 + Radio 4 + Ant.19                                                                                                 |



| The Worst Case Mode for Following Conformance Tests                                                                             |                                                                                                                                                                                                                                                                                                                                                                                        |                         |                 |               |                 |           |            |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|---------------|-----------------|-----------|------------|
| Tests Item                                                                                                                      | Emissions in Restricted Frequency Bands                                                                                                                                                                                                                                                                                                                                                |                         |                 |               |                 |           |            |
| Test Condition                                                                                                                  | 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.                                                                                                                                    |                         |                 |               |                 |           |            |
| Operating Mode < 1GHz                                                                                                           | Normal Link                                                                                                                                                                                                                                                                                                                                                                            |                         |                 |               |                 |           |            |
|                                                                                                                                 | 1. The EUT 1 performed testing at unsupported FEM and supported FEM mode, the unsupported FEM mode has been evaluated to be the worst case. So the measurement will follow this same test configuration.<br>2. The EUT 1 was performed at X axis, Y axis and Z axis position, and the worst case was EUT found at X axis. So the measurement will follow this same test configuration. |                         |                 |               |                 |           |            |
|                                                                                                                                 | EUT                                                                                                                                                                                                                                                                                                                                                                                    | Radio 1                 | Radio 2         | Radio 3       | Radio 4         | Radio 5   | Powered by |
| 1                                                                                                                               | EUT 1 in X axis                                                                                                                                                                                                                                                                                                                                                                        | 5GHz Full band          | 2.4GHz          | 6GHz          | 6GHz            | Bluetooth | PoE        |
| 2                                                                                                                               | EUT 2 in Z axis                                                                                                                                                                                                                                                                                                                                                                        | 5GHz Full band (Ant.16) | 2.4GHz (Ant.16) | 6GHz (Ant.18) | 2.4GHz (Ant.18) | Bluetooth | PoE        |
| 3                                                                                                                               | EUT 2 in Z axis                                                                                                                                                                                                                                                                                                                                                                        | 5GHz Full band (Ant.16) | 2.4GHz (Ant.16) | 6GHz (Ant.18) | 5GHz (Ant.18)   | Bluetooth | PoE        |
| Mode 2 has been evaluated to be the worst case among Mode 2~3, thus measurement for mode 4 ~ 5 will follow this same test mode. |                                                                                                                                                                                                                                                                                                                                                                                        |                         |                 |               |                 |           |            |
| 4                                                                                                                               | EUT 2 in Y axis                                                                                                                                                                                                                                                                                                                                                                        | 5GHz Full band (Ant.16) | 2.4GHz (Ant.16) | 6GHz (Ant.18) | 2.4GHz (Ant.18) | Bluetooth | PoE        |
| 5                                                                                                                               | EUT 2 in X axis                                                                                                                                                                                                                                                                                                                                                                        | 5GHz Full band (Ant.16) | 2.4GHz (Ant.16) | 6GHz (Ant.18) | 2.4GHz (Ant.18) | Bluetooth | PoE        |
| Mode 4 has been evaluated to be the worst case among Mode 2~5, thus measurement for mode 6 ~ 9 will follow this same test mode. |                                                                                                                                                                                                                                                                                                                                                                                        |                         |                 |               |                 |           |            |
| 6                                                                                                                               | EUT 2 in Y axis                                                                                                                                                                                                                                                                                                                                                                        | 5GHz Full band (Ant.17) | 2.4GHz (Ant.17) | 6GHz (Ant.19) | 2.4GHz (Ant.19) | Bluetooth | PoE        |
| 7                                                                                                                               | EUT 2 in Y axis                                                                                                                                                                                                                                                                                                                                                                        | 5GHz Full band (Ant.17) | 2.4GHz (Ant.17) | 6GHz (Ant.19) | 5GHz (Ant.19)   | Bluetooth | PoE        |



|                                                                               |                                                                                                                                                                       |                         |                 |               |               |           |     |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|---------------|---------------|-----------|-----|
| 8                                                                             | EUT 2 in Y axis                                                                                                                                                       | 5GHz Full band (Ant.16) | 2.4GHz (Ant.16) | 6GHz (Ant.18) | 6GHz (Ant.18) | Bluetooth | PoE |
| 9                                                                             | EUT 2 in Y axis                                                                                                                                                       | 5GHz Full band (Ant.17) | 2.4GHz (Ant.17) | 6GHz (Ant.19) | 6GHz (Ant.19) | Bluetooth | PoE |
| For operating mode 1 is the worst case and it was record in this test report. |                                                                                                                                                                       |                         |                 |               |               |           |     |
| Operating Mode > 1GHz                                                         | CTX                                                                                                                                                                   |                         |                 |               |               |           |     |
|                                                                               | The EUT was performed at X axis, Y axis and Z axis position, and the worst case was EUT found at Y axis. So the measurement will follow this same test configuration. |                         |                 |               |               |           |     |
| 1                                                                             | EUT 2 in Y axis + Radio 4 + Ant.18                                                                                                                                    |                         |                 |               |               |           |     |
| 2                                                                             | EUT 2 in Y axis + Radio 4 + Ant.19                                                                                                                                    |                         |                 |               |               |           |     |

| The Worst Case Mode for Following Conformance Tests                           |                                                                                                                                                                                                   |                |                 |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|
| <b>Tests Item</b>                                                             | Simultaneous Transmission Analysis - Radiated Emission Co-location                                                                                                                                |                |                 |
| <b>Test Condition</b>                                                         | Radiated measurement                                                                                                                                                                              |                |                 |
| <b>Operating Mode</b>                                                         | Normal Link                                                                                                                                                                                       |                |                 |
|                                                                               | The EUT was performed at X axis, Y axis and Z axis position Radiated emission above 1GHz test, and the worst case was found as below. So the measurement will follow this same test configuration |                |                 |
|                                                                               | <b>EUT</b>                                                                                                                                                                                        | <b>Radio 3</b> | <b>Radio 4</b>  |
| 1                                                                             | EUT 2 in Y axis                                                                                                                                                                                   | 6GHz (Ant.18)  | 2.4GHz (Ant.18) |
| 2                                                                             | EUT 2 in X axis                                                                                                                                                                                   | 6GHz (Ant.18)  | 5GHz (Ant.18)   |
| 3                                                                             | EUT 2 in X axis                                                                                                                                                                                   | 6GHz (Ant.18)  | 6GHz (Ant.18)   |
| 4                                                                             | EUT 2 in Y axis                                                                                                                                                                                   | 6GHz (Ant.19)  | 2.4GHz (Ant.19) |
| 5                                                                             | EUT 2 in Z axis                                                                                                                                                                                   | 6GHz (Ant.19)  | 5GHz (Ant.19)   |
| 6                                                                             | EUT 2 in Z axis                                                                                                                                                                                   | 6GHz (Ant.19)  | 6GHz (Ant.19)   |
| For operating mode 4 is the worst case and it was record in this test report. |                                                                                                                                                                                                   |                |                 |

**The Worst Case Mode for Following Conformance Tests**

| Tests Item     | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |                |               |         |         |           |
|----------------|-------------------------------------------------------------------------|----------------|---------------|---------|---------|-----------|
| Operating Mode | EUT                                                                     | Radio 1        | Radio 2       | Radio 3 | Radio 4 | Radio 5   |
| 1              | EUT 1                                                                   | 5GHz Full band | 2.4GHz        | 6GHz    | 2.4GHz  | Bluetooth |
| 2              | EUT 1                                                                   | 5GHz Full band | 2.4GHz        | 6GHz    | 5GHz    | Bluetooth |
| 3              | EUT 1                                                                   | 5GHz Full band | 2.4GHz        | 6GHz    | 6GHz    | Bluetooth |
| 4              | EUT 1                                                                   | 5GHz Full band | 2.4GHz        | 6GHz    | 2.4GHz  | Bluetooth |
| 5              | EUT 1                                                                   | 5GHz Full band | 2.4GHz        | 6GHz    | 5GHz    | Bluetooth |
| 6              | EUT 1                                                                   | 5GHz high band | 5GHz low band | 6GHz    | 6GHz    | Bluetooth |
| 7              | EUT 2                                                                   | 5GHz Full band | 2.4GHz        | 6GHz    | 2.4GHz  | Bluetooth |
| 8              | EUT 2                                                                   | 5GHz Full band | 2.4GHz        | 6GHz    | 5GHz    | Bluetooth |
| 9              | EUT 2                                                                   | 5GHz Full band | 2.4GHz        | 6GHz    | 6GHz    | Bluetooth |

Refer to Sporton Test Report No.: FA182421-02 for Co-location RF Exposure Evaluation.

Note: The PoE is for measurement only, would not be marketed.

PoE information as below:

| Power | Brand   | Model        |
|-------|---------|--------------|
| PoE   | PHIHONG | POE60U-1BT-5 |



## **2.3 EUT Operation during Test**

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

## **2.4 Accessories**

| Others                                               |
|------------------------------------------------------|
| Antenna bracket*1 (Only for ant. 17 and ant. 19 use) |
| Bracket*1                                            |



## 2.5 Support Equipment

**For AC Conduction:**

| Support Equipment |               |            |              |            |
|-------------------|---------------|------------|--------------|------------|
| No.               | Equipment     | Brand Name | Model Name   | FCC ID     |
| A                 | PoE           | PHIHONG    | POE60U-1BT-5 | N/A        |
| B                 | PD Load       | Juniper    | AP45         | N/A        |
| C                 | PD PC         | DELL       | T3400        | N/A        |
| D                 | LAN NB        | DELL       | E6430        | N/A        |
| E                 | 2.4G NB       | DELL       | E6430        | N/A        |
| F                 | 5G NB         | DELL       | E6430        | N/A        |
| G                 | SCAN NB       | DELL       | E6430        | N/A        |
| H                 | 6E Device     | Juniper    | AP45         | 2AHBN-AP45 |
| I                 | Flash Disk3.0 | Transcend  | JetFlash-700 | N/A        |
| J                 | 6E NB         | DELL       | E6430        | N/A        |

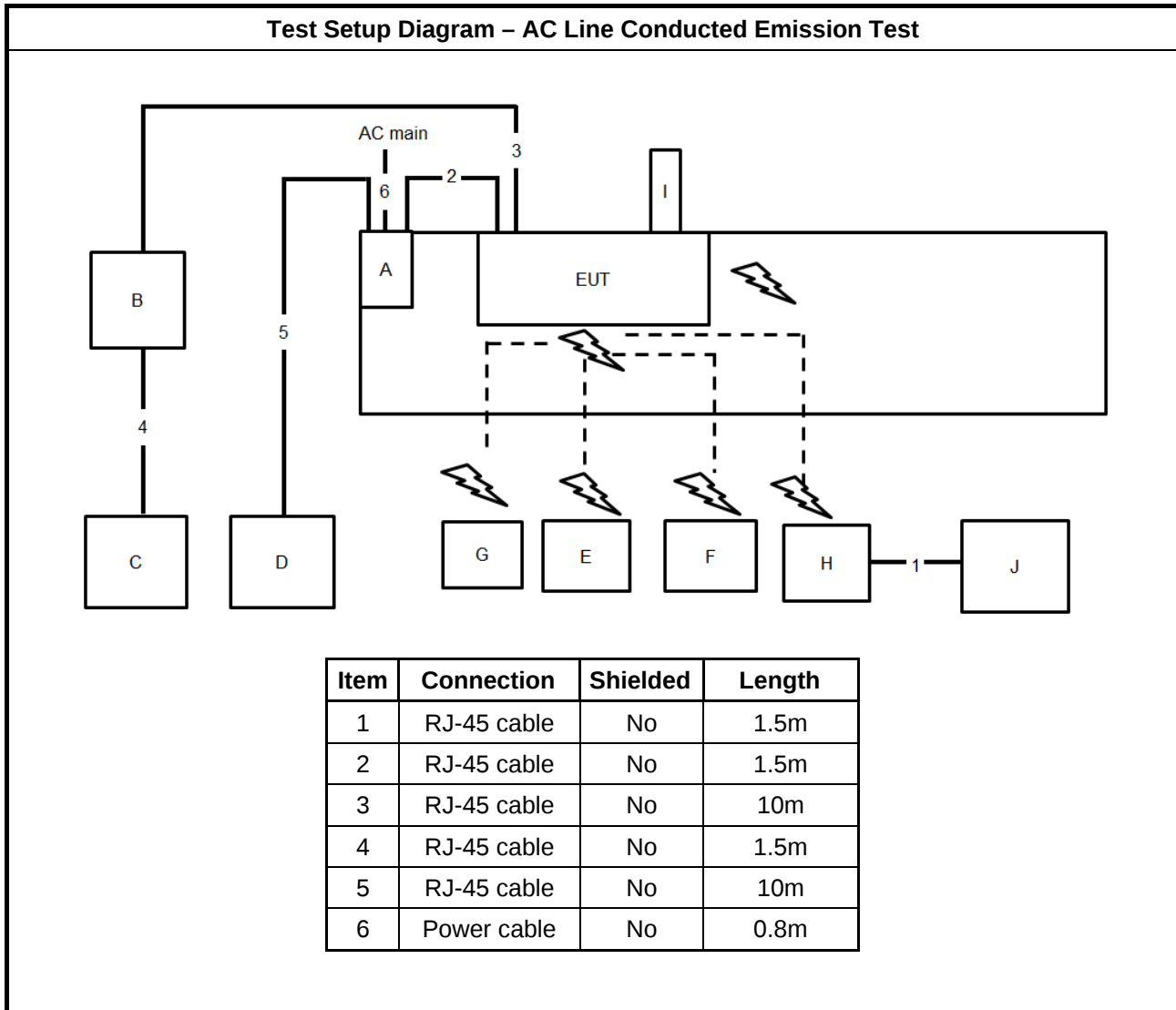
**For Radiated (below 1GHz):**

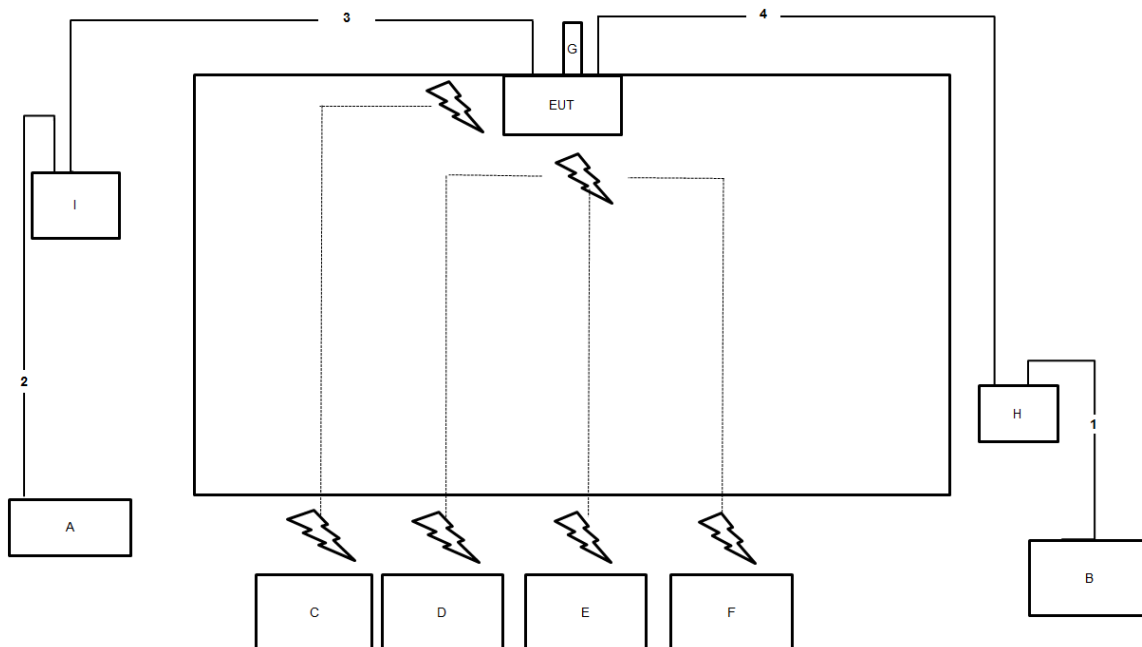
| Support Equipment |                     |               |             |            |
|-------------------|---------------------|---------------|-------------|------------|
| No.               | Equipment           | Brand Name    | Model Name  | FCC ID     |
| A                 | LAN Notebook        | DELL          | E4300       | N/A        |
| B                 | LAN Notebook        | DELL          | E4300       | N/A        |
| C                 | WLAN module(6E)     | Intel         | AX210NGW    | PD9AX210NG |
| D                 | WLAN module(6E)     | Intel         | AX210NGW    | PD9AX210NG |
| E                 | WiFi Notebook(2.4G) | DELL          | E4300       | N/A        |
| F                 | WiFi Notebook(5G)   | DELL          | E4300       | N/A        |
| G                 | Flash disk3.0       | Silicon Power | B06         | N/A        |
| H                 | PD Load             | Juniper       | AP45, AP45E | N/A        |
| I                 | PoE                 | PHIHONG       | ADP-60HR B  | N/A        |

**For RF Conducted and Radiated (above 1GHz):**

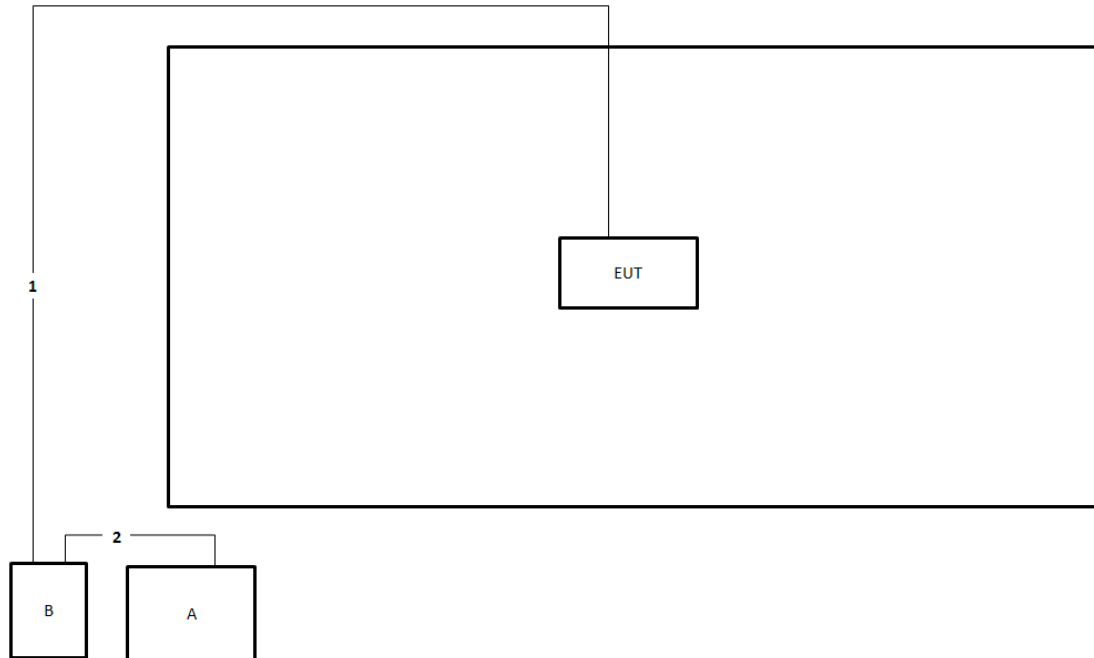
| Support Equipment |           |            |              |        |
|-------------------|-----------|------------|--------------|--------|
| No.               | Equipment | Brand Name | Model Name   | FCC ID |
| A                 | Notebook  | DELL       | E4300        | N/A    |
| B                 | PoE       | PHIHONG    | POE60U-1BT-5 | N/A    |

## 2.6 Test Setup Diagram



**Test Setup Diagram - Radiated Test < 1GHz**


| Item | Connection  | Shielded | Length |
|------|-------------|----------|--------|
| 1    | RJ-45 cable | No       | 1.5m   |
| 2    | RJ-45 cable | No       | 1.5m   |
| 3    | RJ-45 cable | No       | 10m    |
| 4    | RJ-45 cable | No       | 10m    |

**Test Setup Diagram - Radiated Test > 1GHz**


| Item | Connection  | Shielded | Length |
|------|-------------|----------|--------|
| 1    | RJ-45 cable | No       | 10m    |
| 2    | RJ-45 cable | No       | 1.5m   |



### 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.

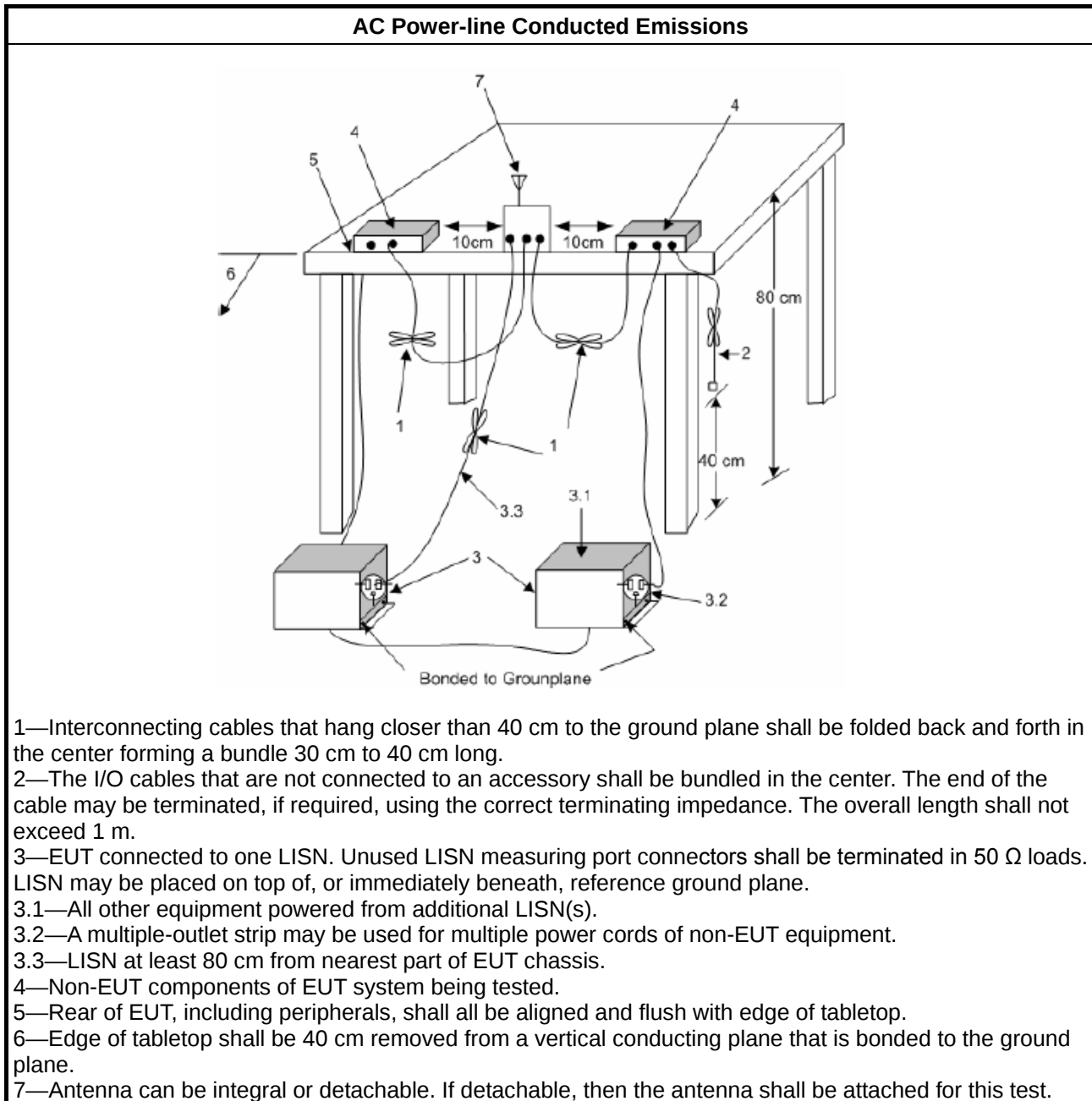
##### 3.1.2 Measuring Instruments

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 Test Setup



### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

### 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                                                                         |
|---------------------------------------------------------------------------------------------|
| Systems using digital modulation techniques:                                                |
| <ul style="list-style-type: none"> <li>6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul> |

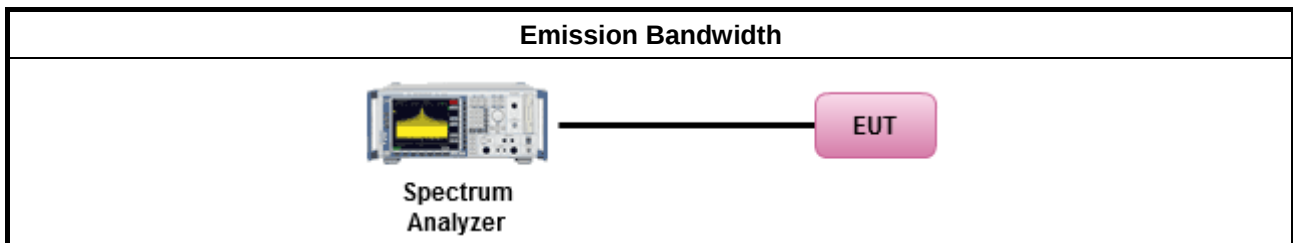
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>For the emission bandwidth shall be measured using one of the options below:</li> </ul>          |
| <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement. |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.            |
| <input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 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 |
| $P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi. |                                                                                                      |

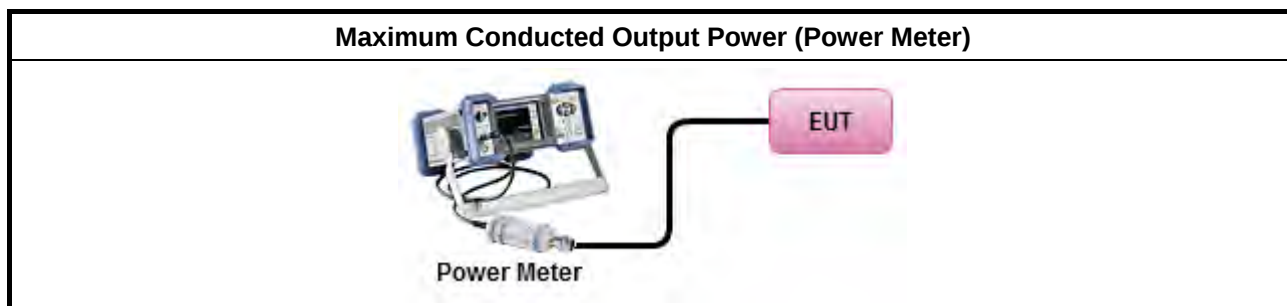
#### 3.3.2 Measuring Instruments

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 FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).                                      |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).                                      |
| <ul style="list-style-type: none"> <li>Maximum Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                                       |                                                                                                                           |
| [duty cycle ≥ 98% or external video / power trigger]                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.                                        |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)                         |
| duty cycle < 98% and average over on/off periods with duty factor                                                                                                                                                                                                                                                                                                      |                                                                                                                           |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.                                        |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3                                         |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)                          |
| Measurement using a power meter (PM)                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).        |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                    | Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average 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 FCC 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 |

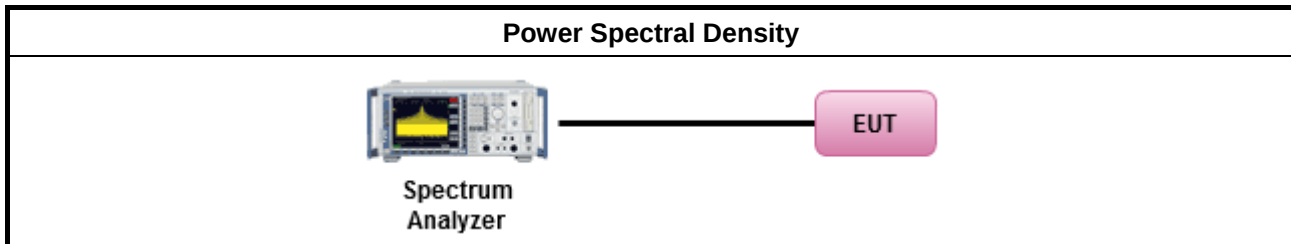
#### 3.4.2 Measuring Instruments

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 FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ▪ For conducted measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ▪ If The EUT supports multiple transmit chains using options given below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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. |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,                                                                                                                                                                                                         |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.                                                                                                                                                                                                                                                                                                                  |

### 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 (dBc) |
| 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 PSD 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 PSD level.</p> |             |

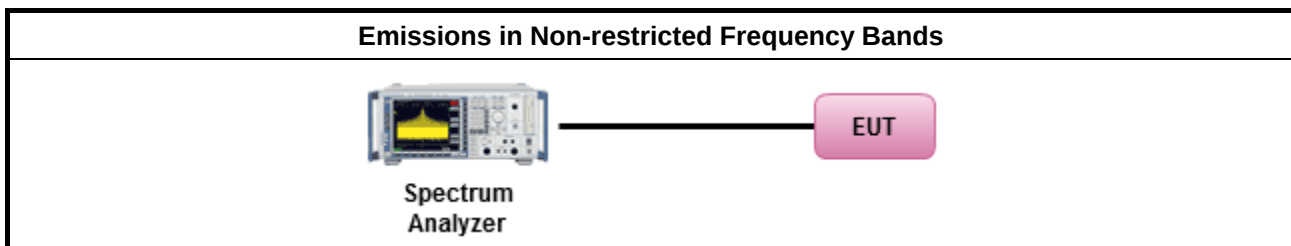
#### 3.5.2 Measuring Instruments

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 FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted 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

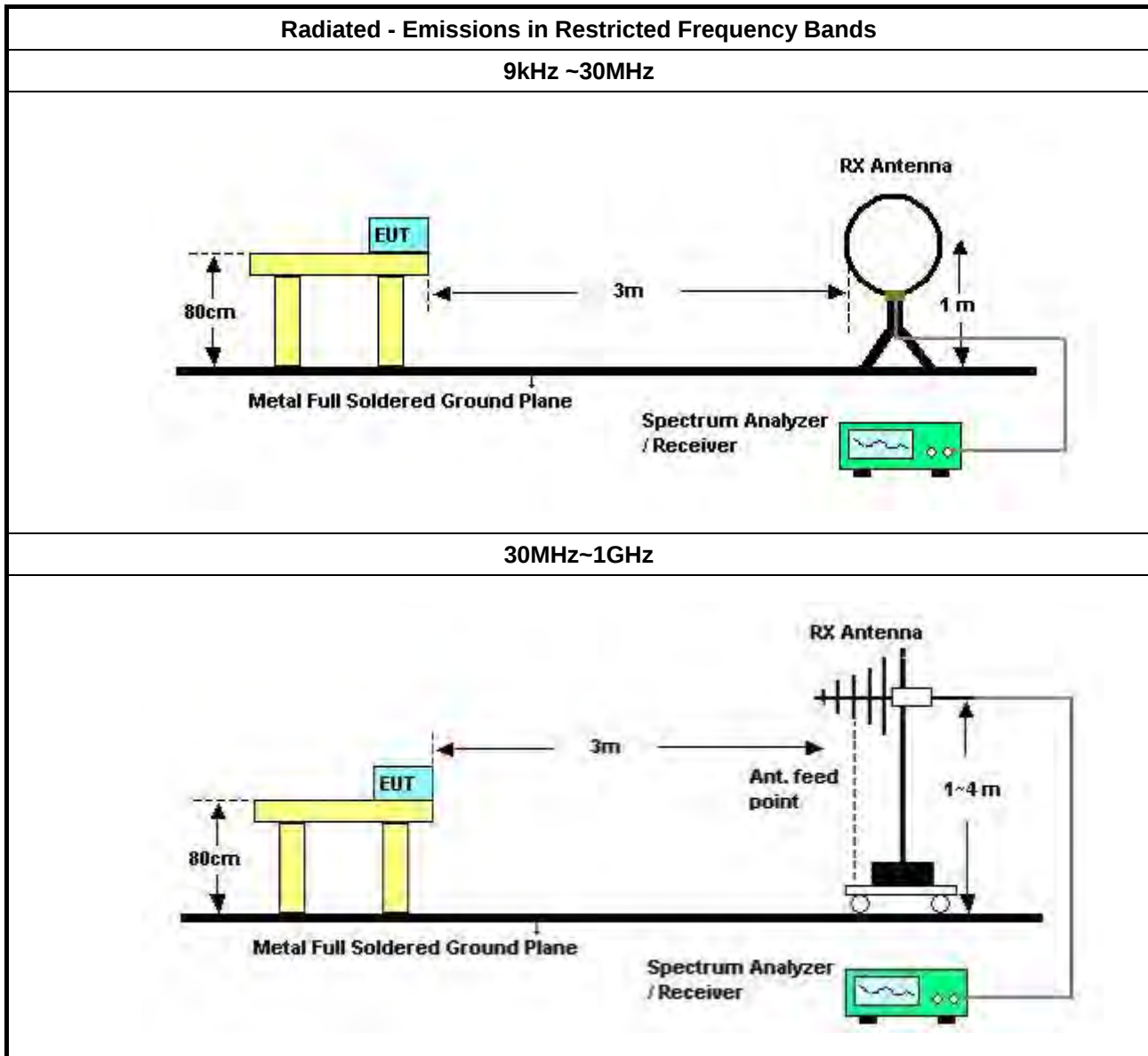
Refer a test equipment and calibration data table in this test report.

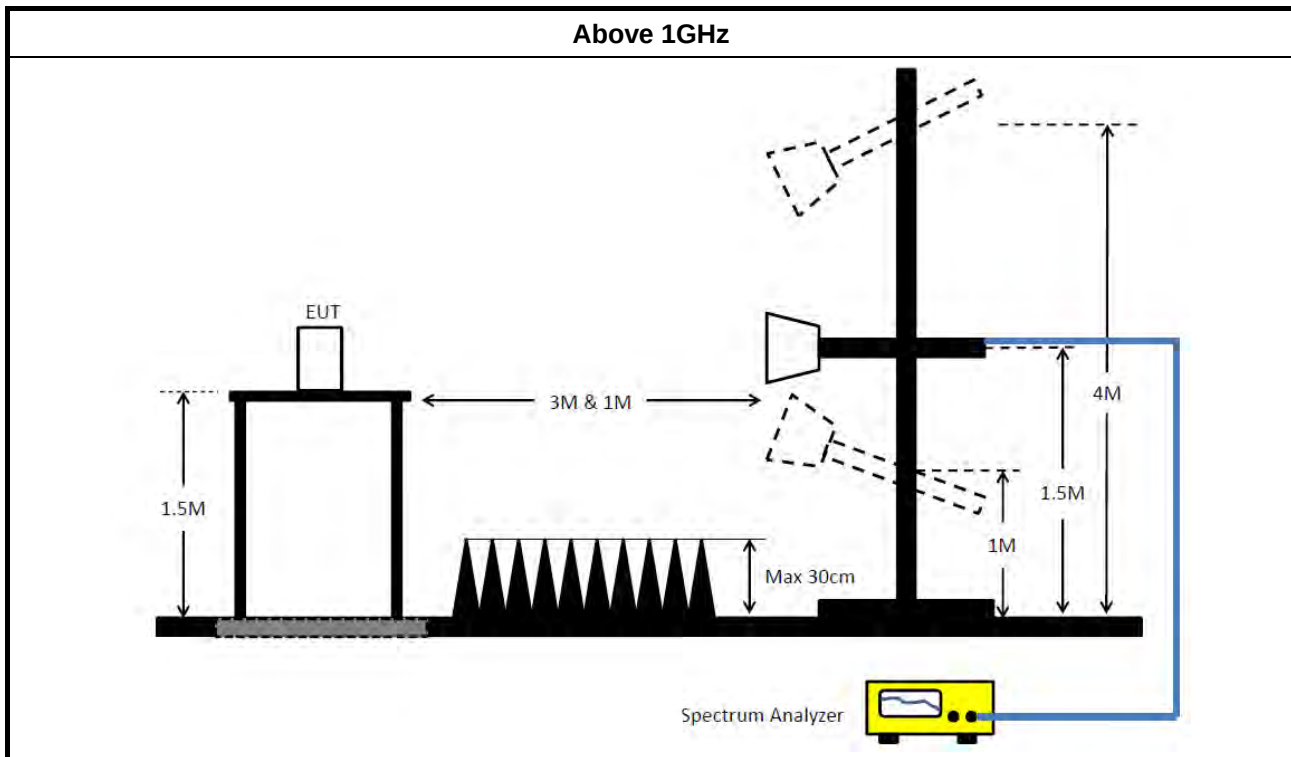


### 3.6.3 Test Procedures

| Test Method                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq 98</math> 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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.</li> </ul>                                                                                                                                                                                                                                                            |
| <input type="checkbox"/>                                                                                                                                                                                                    | Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$ ).                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/>                                                                                                                                                                                                    | Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).                                                                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/>                                                                                                                                                                                         | Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$ ).                                                                                                                                                                                                                                                                                                      |
| <input type="checkbox"/>                                                                                                                                                                                                    | Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$ , where T is pulse time.                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/>                                                                                                                                                                                                    | Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/>                                                                                                                                                                                         | Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.                                                                                                                                                                                                                                                                                                |
| <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 FCC KDB 558074 clause 8.7 &amp; C63.10 clause 11.13.1, 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 FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>                                                                                                                                                                                           |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>For conducted unwanted emissions into restricted bands (absolute emission limits). 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 FCC 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 Test Setup





### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

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

Refer as Appendix F



## 4 Test Equipment and Calibration Data

| Instrument                         | Brand            | Model No.         | Serial No.       | Characteristics | Calibration Date | Calibration Due Date | Remark                |
|------------------------------------|------------------|-------------------|------------------|-----------------|------------------|----------------------|-----------------------|
| EMI Receiver                       | Agilent          | N9038A            | My52260123       | 9kHz ~ 8.4GHz   | Mar. 03, 2021    | Mar. 02, 2022        | Conduction (CO01-CB)  |
| EMI Receiver                       | Agilent          | N9038A            | My52260123       | 9kHz ~ 8.4GHz   | Feb. 22, 2022    | Feb. 21, 2023        | Conduction (CO01-CB)  |
| LISN                               | F.C.C.           | FCC-LISN-50-16-2  | 04083            | 150kHz ~ 100MHz | Jan. 06, 2021    | Jan. 05, 2022        | Conduction (CO01-CB)  |
| LISN                               | F.C.C.           | FCC-LISN-50-16-2  | 04083            | 150kHz ~ 100MHz | Feb. 09, 2022    | Feb. 08, 2023        | Conduction (CO01-CB)  |
| LISN                               | Schwarzbeck      | NSLK 8127         | 8127647          | 9kHz ~ 30MHz    | Mar. 07, 2021    | Mar. 06, 2022        | Conduction (CO01-CB)  |
| LISN                               | Schwarzbeck      | NSLK 8127         | 8127650          | 9kHz ~ 30MHz    | Jan. 07, 2022    | Jan. 06, 2023        | Conduction (CO01-CB)  |
| Pulse Limiter                      | Rohde&Schwarz    | ESH3-Z2           | 100430           | 9kHz ~ 30MHz    | Jan. 30, 2021    | Jan. 29, 2022        | Conduction (CO01-CB)  |
| Pulse Limiter                      | Rohde&Schwarz    | ESH3-Z2           | 100430           | 9kHz ~ 30MHz    | Feb. 10, 2022    | Feb. 09, 2023        | Conduction (CO01-CB)  |
| COND Cable                         | Woken            | Cable             | Low cable-CO01   | 9kHz ~ 30MHz    | May 19, 2021     | May 18, 2022         | Conduction (CO01-CB)  |
| Software                           | SPORTON          | SENSE             | V5.10            | -               | N.C.R.           | N.C.R.               | Conduction (CO01-CB)  |
| Loop Antenna                       | Teseq            | HLA 6120          | 24155            | 9kHz - 30 MHz   | Apr. 14, 2021    | Apr. 13, 2022        | Radiation (03CH03-CB) |
| 3m Semi Anechoic Chamber NSA       | TDK              | SAC-3M            | 03CH03-CB        | 30 MHz ~ 1 GHz  | Jan. 26, 2022    | Jan. 25, 2023        | Radiation (03CH03-CB) |
| Bilog Antenna with 6 dB attenuator | Schaffner & EMCI | CBL6112B & N-6-06 | 2928 & AT-N0608  | 20MHz ~ 2GHz    | Feb. 21, 2022    | Feb. 20, 2023        | Radiation (03CH03-CB) |
| Pre-Amplifier                      | Agilent          | 8447D             | 2944A10259       | 9kHz ~ 1.3GHz   | Jan. 10, 2022    | Jan. 09, 2023        | Radiation (03CH03-CB) |
| Spectrum Analyzer                  | R&S              | FSP40             | 100019           | 9kHz ~ 40GHz    | Jun. 04, 2021    | Jun. 03, 2022        | Radiation (03CH03-CB) |
| EMI Test Receiver                  | R&S              | ESCS              | 826547/017       | 9kHz ~ 2.75GHz  | Jun. 21, 2021    | Jun. 20, 2022        | Radiation (03CH03-CB) |
| RF Cable-low                       | Woken            | RG402             | Low Cable-02+29  | 30MHz ~ 1GHz    | Oct. 04, 2021    | Oct. 03, 2022        | Radiation (03CH03-CB) |
| RF Cable-high                      | Woken            | RG402             | High Cable-20+29 | 1GHz ~ 18GHz    | Oct. 04, 2021    | Oct. 03, 2022        | Radiation (03CH03-CB) |
| RF Cable-high                      | Woken            | RG402             | High Cable-29    | 1GHz ~ 18GHz    | Oct. 04, 2021    | Oct. 03, 2022        | Radiation (03CH03-CB) |
| Test Software                      | SPORTON          | SENSE             | V5.10            | -               | N.C.R.           | N.C.R.               | Radiation (03CH03-CB) |
| Loop Antenna                       | Teseq            | HLA 6120          | 24155            | 9kHz - 30 MHz   | Apr. 14, 2021    | Apr. 13, 2022        | Radiation (03CH05-CB) |



| Instrument                        | Brand        | Model No.          | Serial No.       | Characteristics   | Calibration Date | Calibration Due Date | Remark                |
|-----------------------------------|--------------|--------------------|------------------|-------------------|------------------|----------------------|-----------------------|
| 3m Semi Anechoic Chamber NSA      | TDK          | SAC-3M             | 03CH05-CB        | 30 MHz ~ 1 GHz    | Aug. 09, 2021    | Aug. 08, 2022        | Radiation (03CH05-CB) |
| 3m Semi Anechoic Chamber VSWR     | TDK          | SAC-3M             | 03CH05-CB        | 1GHz ~18GHz<br>3m | Nov. 07, 2021    | Nov. 06, 2022        | Radiation (03CH05-CB) |
| Bilog Antenna with 6dB Attenuator | TESEQ & EMCI | CBL 6112D & N-6-06 | 35236 & AT-N0610 | 30MHz ~ 2GHz      | Mar. 26, 2021    | Mar. 25, 2022        | Radiation (03CH05-CB) |
| Horn Antenna                      | SCHWARZBECK  | BBHA9120D          | BBHA 9120 D-1291 | 1GHz~18GHz        | Oct. 14, 2021    | Oct. 13, 2022        | Radiation (03CH05-CB) |
| Horn Antenna                      | Schwarzbeck  | BBHA 9170          | BBHA9170252      | 15GHz ~ 40GHz     | Aug. 05, 2021    | Aug. 04, 2022        | Radiation (03CH05-CB) |
| Pre-Amplifier                     | EMCI         | EMC330N            | 980331           | 20MHz ~ 3GHz      | Apr. 27, 2021    | Apr. 26, 2022        | Radiation (03CH05-CB) |
| Pre-Amplifier                     | EMCI         | EMC12630SE         | 980287           | 1GHz ~ 26.5GHz    | Jul. 02, 2021    | Jul. 01, 2022        | Radiation (03CH05-CB) |
| Pre-Amplifier                     | MITEQ        | TTA1840-35-H G     | 1864479          | 18GHz ~ 40GHz     | Jul. 13, 2021    | Jul. 12, 2022        | Radiation (03CH05-CB) |
| Signal Analyzer                   | R&S          | FSV40              | 101903           | 9kHz ~ 40GHz      | Mar. 22, 2021    | Mar. 21, 2022        | Radiation (03CH05-CB) |
| Spectrum Analyzer                 | R&S          | FSP40              | 100304           | 9kHz ~ 40GHz      | Mar. 14, 2022    | Mar. 13, 2023        | Radiation (03CH05-CB) |
| EMI Test Receiver                 | R&S          | ESCS               | 826547/017       | 9kHz ~ 2.75GHz    | Jun. 21, 2021    | Jun. 20, 2022        | Radiation (03CH05-CB) |
| RF Cable-low                      | Woken        | RG402              | Low Cable-04+23  | 30MHz~1GHz        | Oct. 13, 2021    | Oct. 12, 2022        | Radiation (03CH05-CB) |
| RF Cable-high                     | Woken        | RG402              | High Cable-28    | 1GHz~18GHz        | Oct. 13, 2021    | Oct. 12, 2022        | Radiation (03CH05-CB) |
| RF Cable-high                     | Woken        | RG402              | High Cable-04+28 | 1GHz~18GHz        | Oct. 13, 2021    | Oct. 12, 2022        | Radiation (03CH05-CB) |
| RF Cable-high                     | Woken        | RG402              | High Cable-40G#1 | 18GHz ~ 40 GHz    | Jul. 15, 2021    | Jul. 14, 2022        | Radiation (03CH05-CB) |
| RF Cable-high                     | Woken        | RG402              | High Cable-40G#2 | 18GHz ~ 40 GHz    | Jul. 15, 2021    | Jul. 14, 2022        | Radiation (03CH05-CB) |
| Test Software                     | SPORTON      | SENSE              | V5.10            | -                 | N.C.R.           | N.C.R.               | Radiation (03CH05-CB) |
| 3m Semi Anechoic Chamber VSWR     | RIKEN        | SAC-3M             | 03CH02-CB        | 1GHz ~18GHz<br>3m | Mar. 27, 2021    | Mar. 26, 2022        | Radiation (03CH02-CB) |
| Horn Antenna                      | EMCO         | 3115               | 9610-4976        | 1GHz ~ 18GHz      | May 04, 2021     | May 03, 2022         | Radiation (03CH02-CB) |
| Horn Antenna                      | Schwarzbeck  | BBHA 9170          | BBHA9170252      | 15GHz ~ 40GHz     | Aug. 05, 2021    | Aug. 04, 2022        | Radiation (03CH02-CB) |
| Pre-Amplifier                     | Agilent      | 83017A             | MY39501305       | 1GHz ~ 26.5GHz    | Jul. 12, 2021    | Jul. 11, 2022        | Radiation (03CH02-CB) |



| Instrument        | Brand   | Model No.         | Serial No.       | Characteristics  | Calibration Date | Calibration Due Date | Remark                   |
|-------------------|---------|-------------------|------------------|------------------|------------------|----------------------|--------------------------|
| Pre-Amplifier     | MITEQ   | TTA1840-35-H<br>G | 1864479          | 18GHz ~ 40GHz    | Jul. 13, 2021    | Jul. 12, 2022        | Radiation<br>(03CH02-CB) |
| Signal Analyzer   | R&S     | FSV40             | 101903           | 9kHz ~ 40GHz     | Mar. 22, 2021    | Mar. 21, 2022        | Radiation<br>(03CH02-CB) |
| RF Cable-high     | Woken   | RG402             | High Cable-18    | 1GHz ~ 18GHz     | Oct. 04, 2021    | Oct. 03, 2022        | Radiation<br>(03CH02-CB) |
| RF Cable-high     | Woken   | RG402             | High Cable-18+19 | 1GHz ~ 18GHz     | Oct. 04, 2021    | Oct. 03, 2022        | Radiation<br>(03CH02-CB) |
| RF Cable-high     | Woken   | RG402             | High Cable-40G#1 | 18GHz ~ 40 GHz   | Jul. 15, 2021    | Jul. 14, 2022        | Radiation<br>(03CH02-CB) |
| RF Cable-high     | Woken   | RG402             | High Cable-40G#2 | 18GHz ~ 40 GHz   | Jul. 15, 2021    | Jul. 14, 2022        | Radiation<br>(03CH02-CB) |
| Test Software     | SPORTON | SENSE             | V5.10            | -                | N.C.R.           | N.C.R.               | Radiation<br>(03CH02-CB) |
| Spectrum analyzer | R&S     | FSV40             | 100979           | 9kHz~40GHz       | May 21, 2021     | May 20, 2022         | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | High Cable-06    | 1 GHz – 26.5 GHz | Oct. 04, 2021    | Oct. 03, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | High Cable-07    | 1 GHz –26.5 GHz  | Oct. 04, 2021    | Oct. 03, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | High Cable-08    | 1 GHz –26.5 GHz  | Oct. 04, 2021    | Oct. 03, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | High Cable-09    | 1 GHz –26.5 GHz  | Oct. 04, 2021    | Oct. 03, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | High Cable-10    | 1 GHz –26.5 GHz  | Oct. 04, 2021    | Oct. 03, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | High Cable-30    | 1 GHz –26.5 GHz  | Oct. 04, 2021    | Oct. 03, 2022        | Conducted<br>(TH01-CB)   |
| Switch            | SPTCB   | SP-SWI            | SWI-01           | 1 GHz –26.5 GHz  | Dec. 13, 2021    | Dec. 12, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | SWI-01-P1        | 1 GHz –26.5 GHz  | Dec. 13, 2021    | Dec. 12, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | SWI-01-P2        | 1 GHz –26.5 GHz  | Dec. 13, 2021    | Dec. 12, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | SWI-01-P3        | 1 GHz –26.5 GHz  | Dec. 13, 2021    | Dec. 12, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | SWI-01-P4        | 1 GHz –26.5 GHz  | Dec. 13, 2021    | Dec. 12, 2022        | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken   | RG402             | SWI-01-P5        | 1 GHz –26.5 GHz  | Dec. 13, 2021    | Dec. 12, 2022        | Conducted<br>(TH01-CB)   |
| Power Sensor      | Anritsu | MA2411B           | 1339408          | 300MHz~40GHz     | Sep. 06, 2021    | Sep. 05, 2022        | Conducted<br>(TH01-CB)   |
| Power Meter       | Anritsu | ML2495A           | 1517009          | 300MHz~40GHz     | Sep. 06, 2021    | Sep. 05, 2022        | Conducted<br>(TH01-CB)   |
| Test Software     | SPORTON | SENSE             | V5.10            | -                | N.C.R.           | N.C.R.               | Conducted<br>(TH01-CB)   |

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.



## Conducted Emissions at Powerline

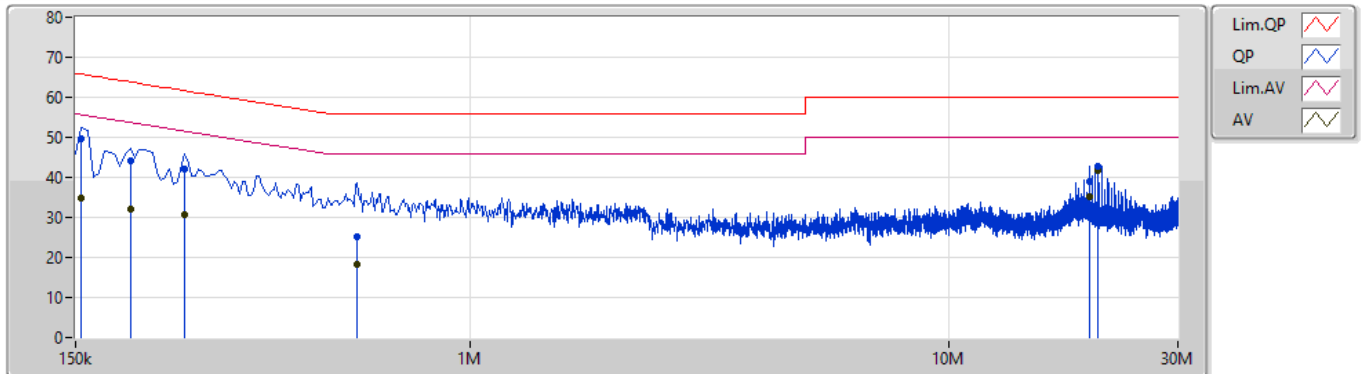
## Appendix A

### Summary

| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-----------------|-----------------|----------------|-----------|
| Mode 3 | Pass   | AV   | 20.364M      | 41.62           | 50.00           | -8.38          | Line      |

### Mode 3

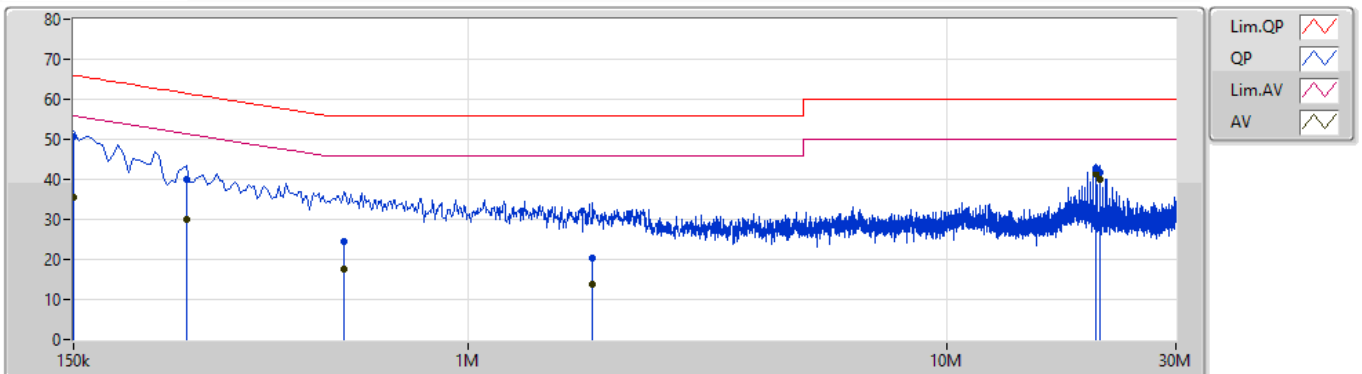
04/01/2022



| 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   | 154.5k       | 49.68           | 65.75           | -16.07         | 9.89           | Line      | -       | 39.79         | 0.04         | 0.04       | 9.81       |  |  |  |
| AV   | 154.5k       | 34.72           | 55.75           | -21.03         | 9.89           | Line      | -       | 24.83         | 0.04         | 0.04       | 9.81       |  |  |  |
| QP   | 195k         | 44.22           | 63.82           | -19.60         | 9.89           | Line      | -       | 34.33         | 0.04         | 0.04       | 9.81       |  |  |  |
| AV   | 195k         | 31.97           | 53.82           | -21.85         | 9.89           | Line      | -       | 22.08         | 0.04         | 0.04       | 9.81       |  |  |  |
| QP   | 253.5k       | 42.12           | 61.64           | -19.52         | 9.89           | Line      | -       | 32.23         | 0.04         | 0.04       | 9.81       |  |  |  |
| AV   | 253.5k       | 30.85           | 51.64           | -20.79         | 9.89           | Line      | -       | 20.96         | 0.04         | 0.04       | 9.81       |  |  |  |
| QP   | 582k         | 25.17           | 56.00           | -30.83         | 9.91           | Line      | -       | 15.26         | 0.05         | 0.04       | 9.82       |  |  |  |
| AV   | 582k         | 18.21           | 46.00           | -27.79         | 9.91           | Line      | -       | 8.30          | 0.05         | 0.04       | 9.82       |  |  |  |
| QP   | 19.64M       | 38.97           | 60.00           | -21.03         | 10.53          | Line      | -       | 28.44         | 0.32         | 0.22       | 9.99       |  |  |  |
| AV   | 19.64M       | 35.23           | 50.00           | -14.77         | 10.53          | Line      | -       | 24.70         | 0.32         | 0.22       | 9.99       |  |  |  |
| QP   | 20.364M      | 42.82           | 60.00           | -17.18         | 10.54          | Line      | -       | 32.28         | 0.32         | 0.22       | 10.00      |  |  |  |
| AV   | 20.364M      | 41.62           | 50.00           | -8.38          | 10.54          | Line      | "Worst" | 31.08         | 0.32         | 0.22       | 10.00      |  |  |  |

### Mode 3

04/01/2022



| 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   | 150k         | 50.67           | 66.00           | -15.33         | 9.88           | Neutral   | -       | 40.79         | 0.03         | 0.04       | 9.81       |  |  |  |
| AV   | 150k         | 35.39           | 56.00           | -20.61         | 9.88           | Neutral   | -       | 25.51         | 0.03         | 0.04       | 9.81       |  |  |  |
| QP   | 258k         | 40.07           | 61.49           | -21.42         | 9.88           | Neutral   | -       | 30.19         | 0.03         | 0.04       | 9.81       |  |  |  |
| AV   | 258k         | 30.07           | 51.49           | -21.42         | 9.88           | Neutral   | -       | 20.19         | 0.03         | 0.04       | 9.81       |  |  |  |
| QP   | 550.5k       | 24.54           | 56.00           | -31.46         | 9.90           | Neutral   | -       | 14.64         | 0.04         | 0.04       | 9.82       |  |  |  |
| AV   | 550.5k       | 17.54           | 46.00           | -28.46         | 9.90           | Neutral   | -       | 7.64          | 0.04         | 0.04       | 9.82       |  |  |  |
| QP   | 1.82M        | 20.34           | 56.00           | -35.66         | 9.96           | Neutral   | -       | 10.38         | 0.07         | 0.07       | 9.82       |  |  |  |
| AV   | 1.82M        | 13.69           | 46.00           | -32.31         | 9.96           | Neutral   | -       | 3.73          | 0.07         | 0.07       | 9.82       |  |  |  |
| QP   | 20.364M      | 42.77           | 60.00           | -17.23         | 10.52          | Neutral   | -       | 32.25         | 0.30         | 0.22       | 10.00      |  |  |  |
| AV   | 20.364M      | 41.55           | 50.00           | -8.45          | 10.52          | Neutral   | "Worst" | 31.03         | 0.30         | 0.22       | 10.00      |  |  |  |
| QP   | 20.85M       | 41.88           | 60.00           | -18.12         | 10.54          | Neutral   | -       | 31.34         | 0.31         | 0.23       | 10.00      |  |  |  |
| AV   | 20.85M       | 40.02           | 50.00           | -9.98          | 10.54          | Neutral   | -       | 29.48         | 0.31         | 0.23       | 10.00      |  |  |  |

**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)_1TX       | 8.475M           | 14.893M         | 14M9G1D  | 7.025M           | 11.994M         |
| 802.11g_Nss1,(6Mbps)_1TX       | 16.35M           | 21.764M         | 21M8D1D  | 16.325M          | 16.967M         |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 18.925M          | 19.64M          | 19M6D1D  | 18.85M           | 19.09M          |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 37.85M           | 38.081M         | 38M1D1D  | 37.7M            | 37.881M         |

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

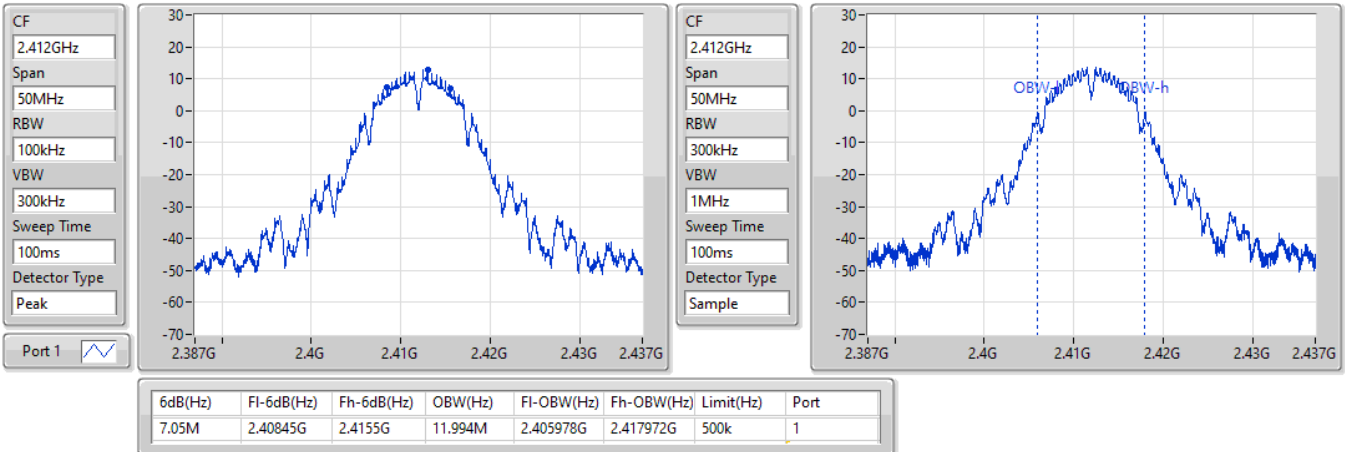
**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -             | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 7.05M               | 11.994M            |
| 2437MHz                        | Pass   | 500k          | 8.475M              | 14.893M            |
| 2462MHz                        | Pass   | 500k          | 7.025M              | 12.019M            |
| 802.11g_Nss1,(6Mbps)_1TX       | -      | -             | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 16.325M             | 17.041M            |
| 2437MHz                        | Pass   | 500k          | 16.35M              | 21.764M            |
| 2462MHz                        | Pass   | 500k          | 16.325M             | 16.967M            |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -      | -             | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 18.9M               | 19.115M            |
| 2437MHz                        | Pass   | 500k          | 18.925M             | 19.64M             |
| 2462MHz                        | Pass   | 500k          | 18.85M              | 19.09M             |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -      | -             | -                   | -                  |
| 2422MHz                        | Pass   | 500k          | 37.7M               | 38.081M            |
| 2437MHz                        | Pass   | 500k          | 37.8M               | 37.881M            |
| 2452MHz                        | Pass   | 500k          | 37.85M              | 38.081M            |

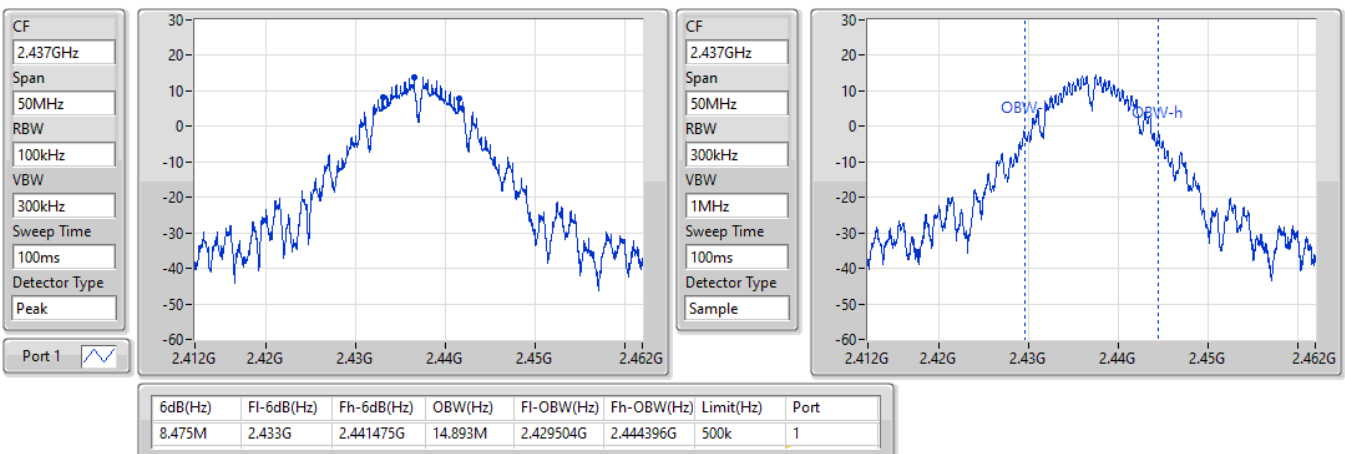
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2412MHz**

15/02/2022

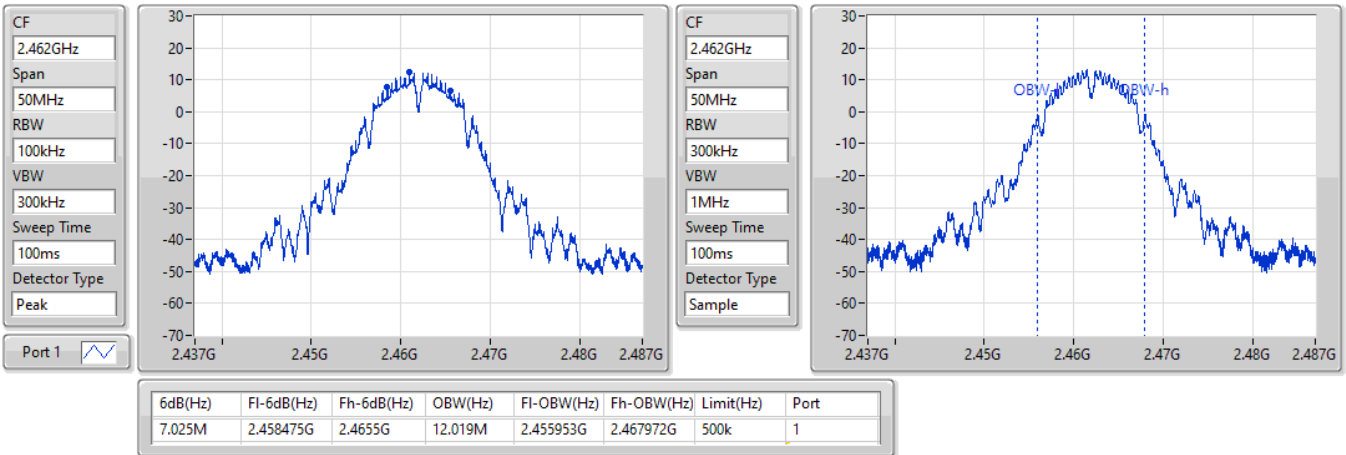

**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2437MHz**

15/02/2022

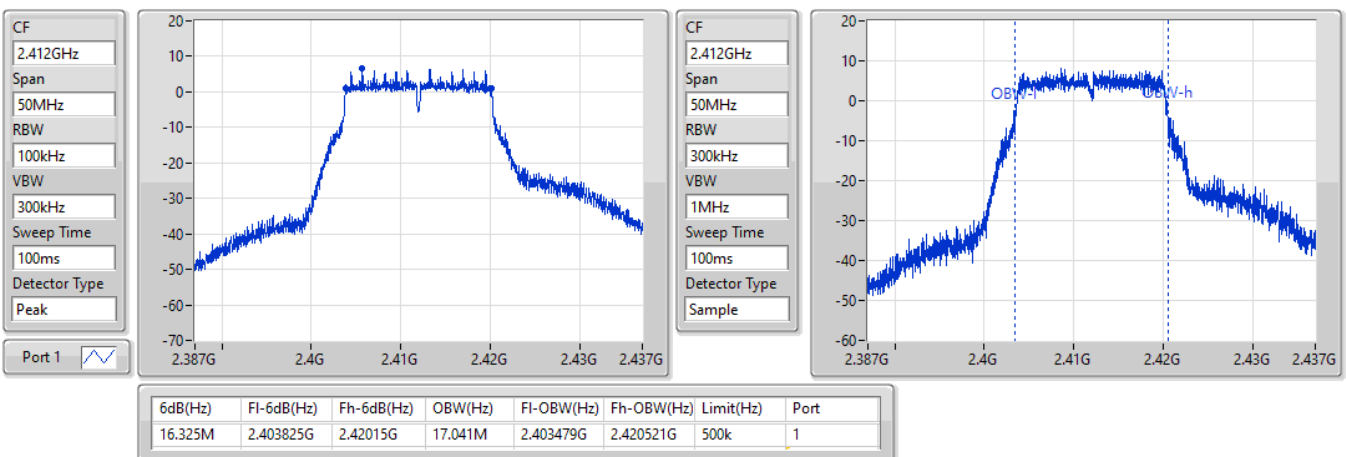


**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2462MHz**

15/02/2022

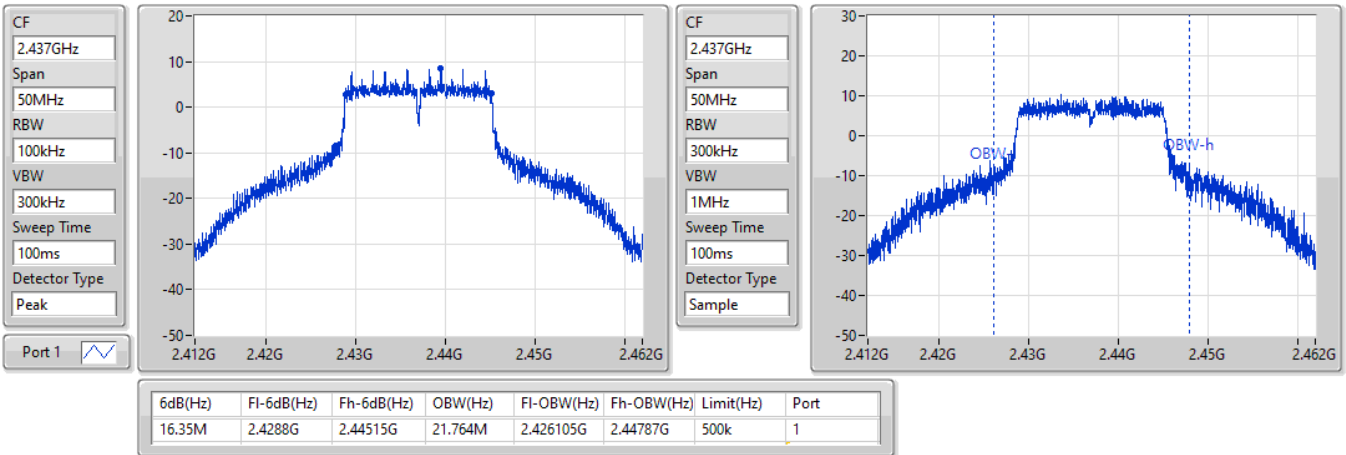

**802.11g\_Nss1,(6Mbps)\_1TX**
**EBW**
**2412MHz**

15/02/2022

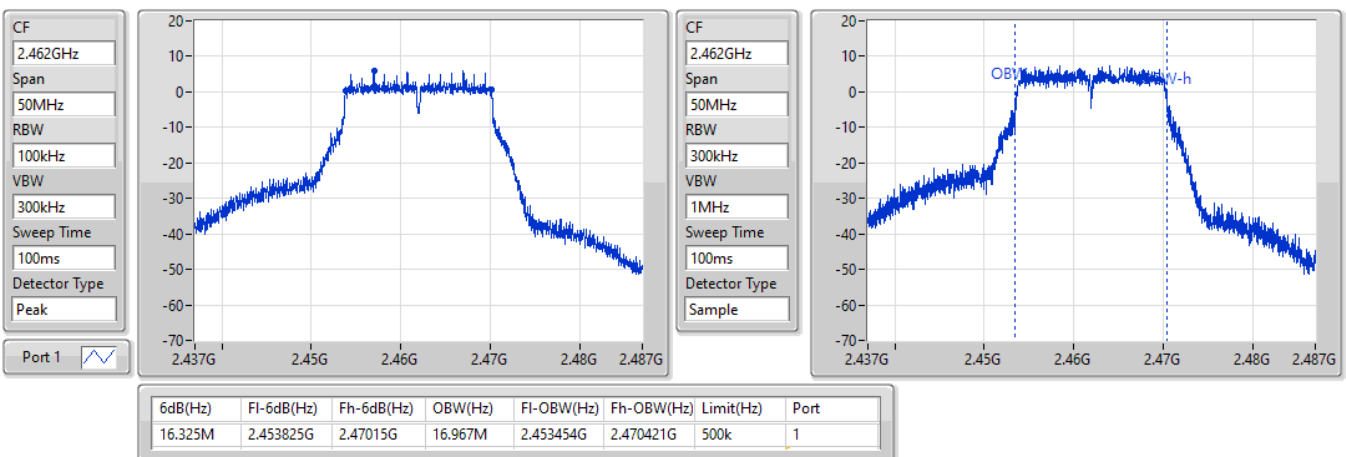


**802.11g\_Nss1,(6Mbps)\_1TX**
**EBW**
**2437MHz**

15/02/2022

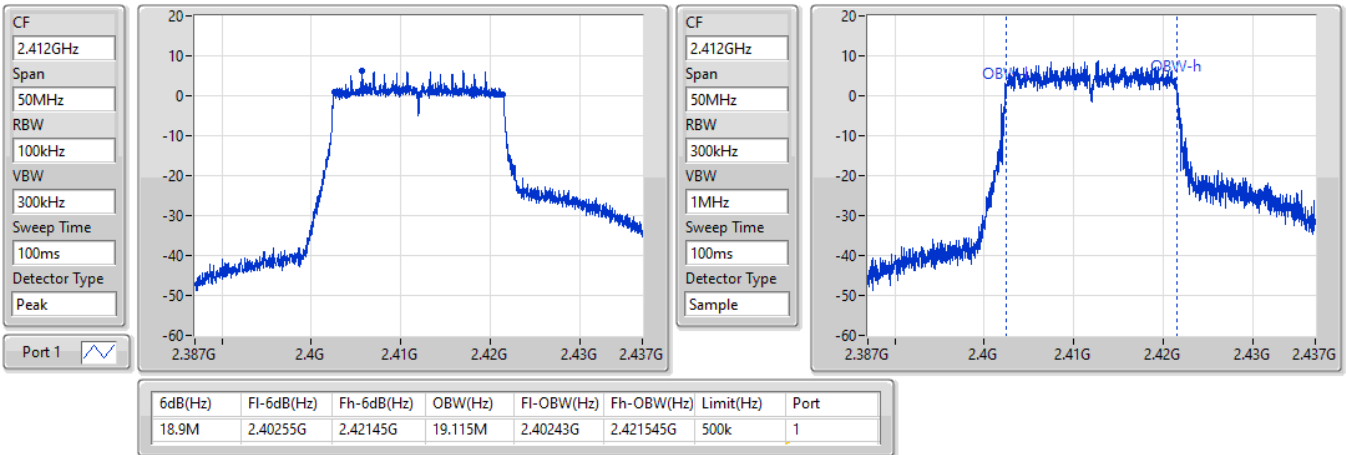

**802.11g\_Nss1,(6Mbps)\_1TX**
**EBW**
**2462MHz**

15/02/2022

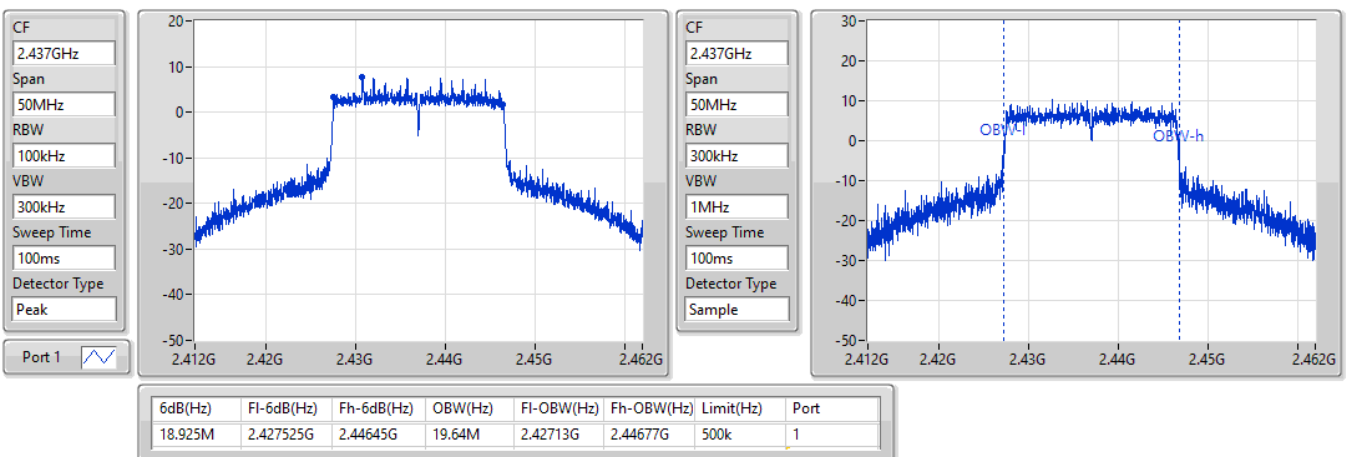


**802.11ax HEW20\_Nss1,(MCS0)\_1TX**
**EBW**
**2412MHz**

15/02/2022

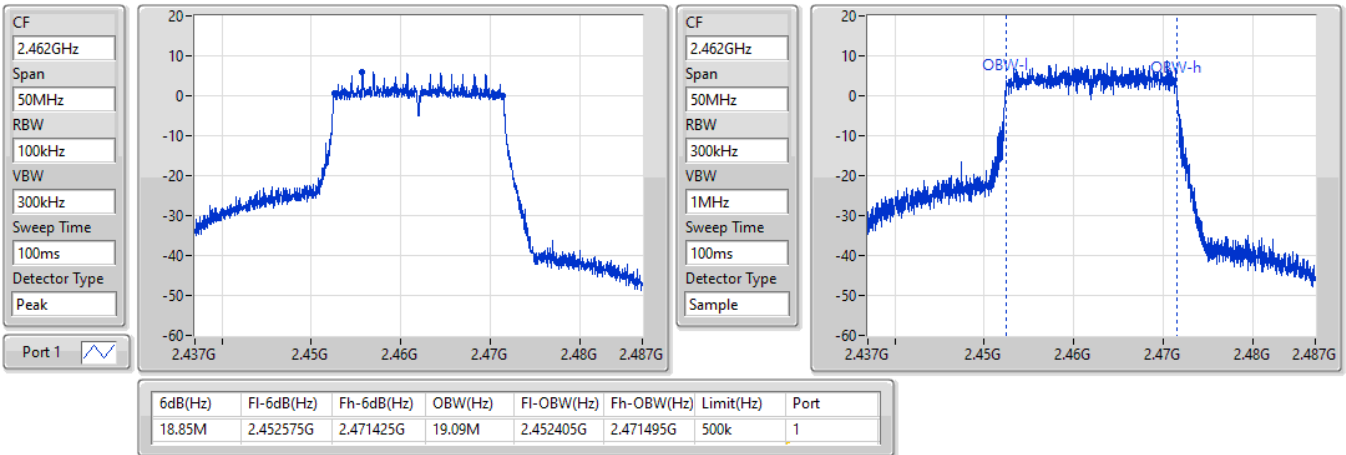

**802.11ax HEW20\_Nss1,(MCS0)\_1TX**
**EBW**
**2437MHz**

15/02/2022

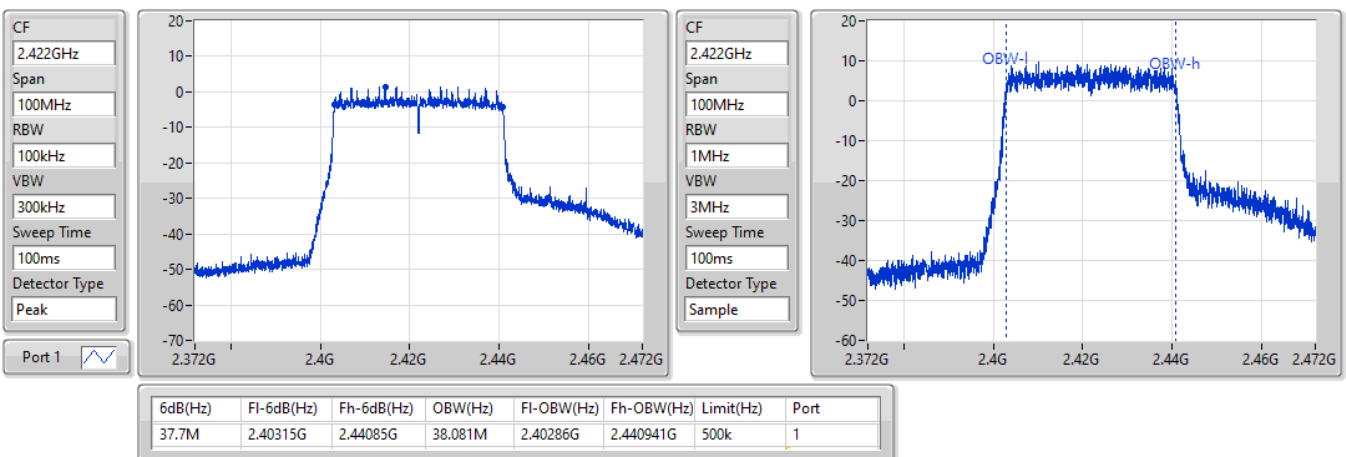


**802.11ax HEW20\_Nss1,(MCS0)\_1TX**
**EBW**
**2462MHz**

15/02/2022

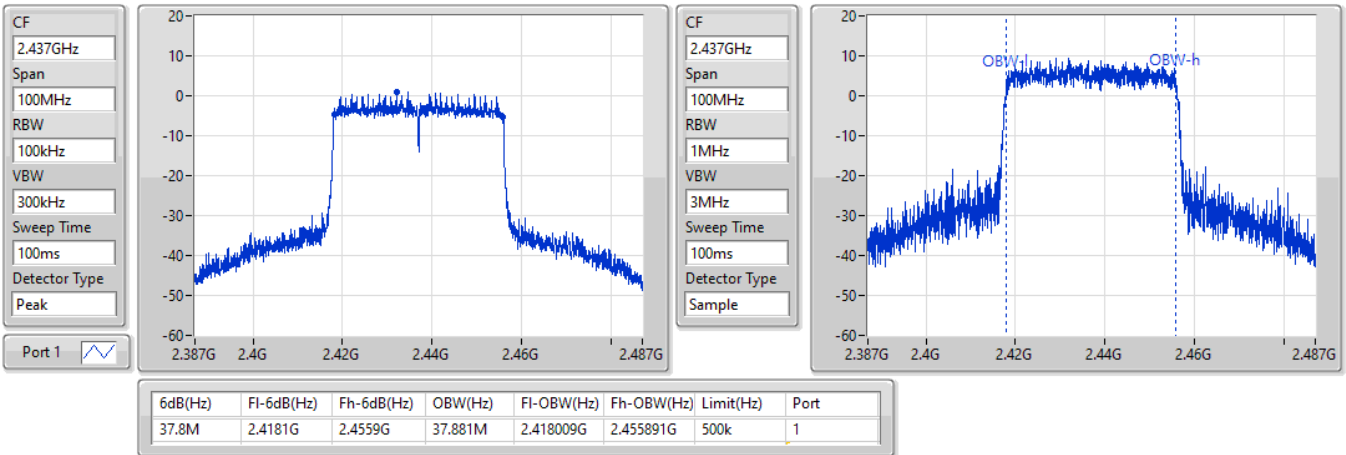

**802.11ax HEW40\_Nss1,(MCS0)\_1TX**
**EBW**
**2422MHz**

15/02/2022

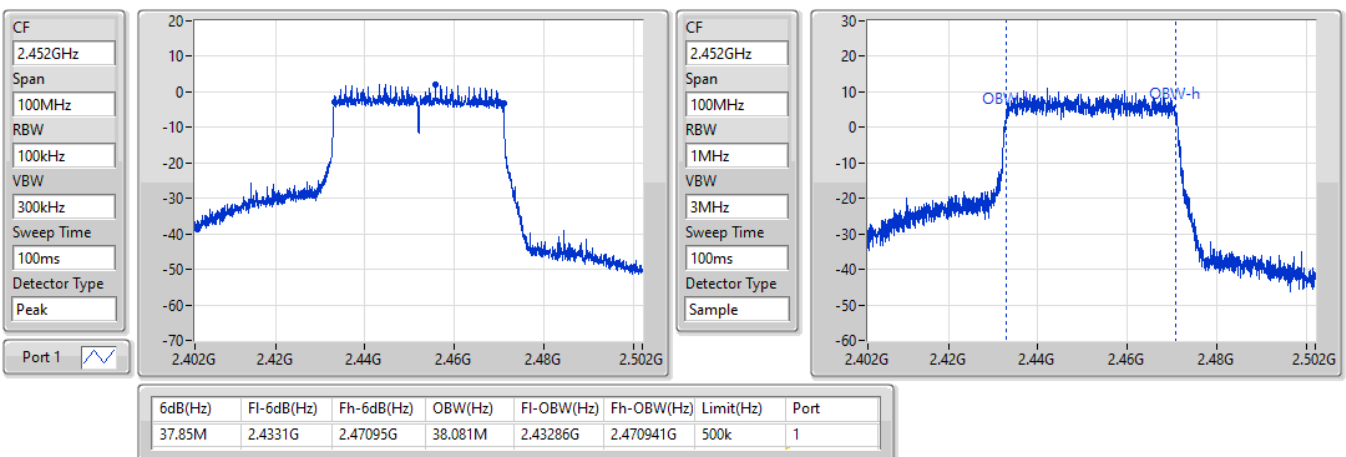


**802.11ax HEW40\_Nss1,(MCS0)\_1TX**
**EBW**
**2437MHz**

15/02/2022


**802.11ax HEW40\_Nss1,(MCS0)\_1TX**
**EBW**
**2452MHz**

15/02/2022



**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)_1TX       | 7.075M           | 12.419M         | 12M4G1D  | 6.55M            | 11.844M         |
| 802.11g_Nss1,(6Mbps)_1TX       | 16.325M          | 21.039M         | 21M0D1D  | 16.325M          | 16.942M         |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 18.95M           | 19.39M          | 19M4D1D  | 18.825M          | 19.09M          |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 37.85M           | 38.131M         | 38M1D1D  | 37.65M           | 37.881M         |

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

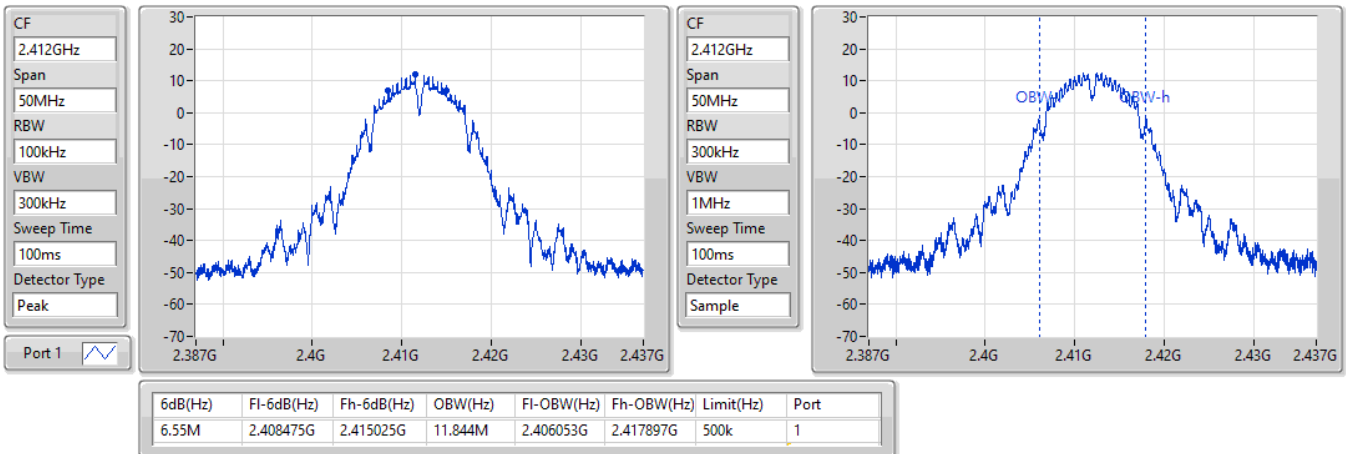
**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -             | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 6.55M               | 11.844M            |
| 2437MHz                        | Pass   | 500k          | 7.075M              | 12.419M            |
| 2462MHz                        | Pass   | 500k          | 6.575M              | 11.969M            |
| 802.11g_Nss1,(6Mbps)_1TX       | -      | -             | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 16.325M             | 16.942M            |
| 2437MHz                        | Pass   | 500k          | 16.325M             | 21.039M            |
| 2462MHz                        | Pass   | 500k          | 16.325M             | 17.016M            |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -      | -             | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 18.95M              | 19.115M            |
| 2437MHz                        | Pass   | 500k          | 18.825M             | 19.39M             |
| 2462MHz                        | Pass   | 500k          | 18.9M               | 19.09M             |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -      | -             | -                   | -                  |
| 2422MHz                        | Pass   | 500k          | 37.7M               | 38.031M            |
| 2437MHz                        | Pass   | 500k          | 37.85M              | 37.881M            |
| 2452MHz                        | Pass   | 500k          | 37.65M              | 38.131M            |

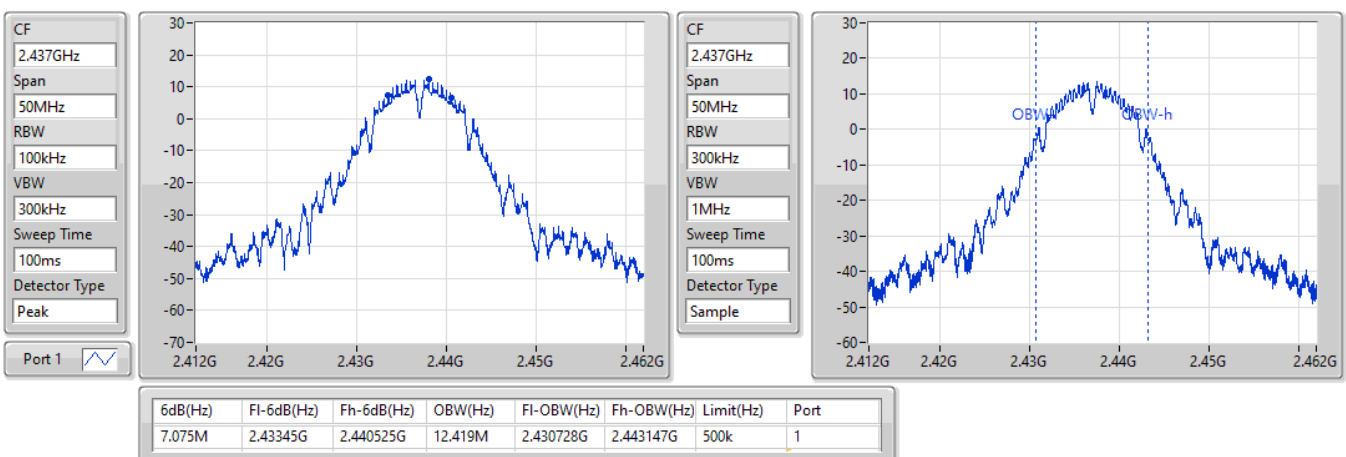
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2412MHz**

15/02/2022

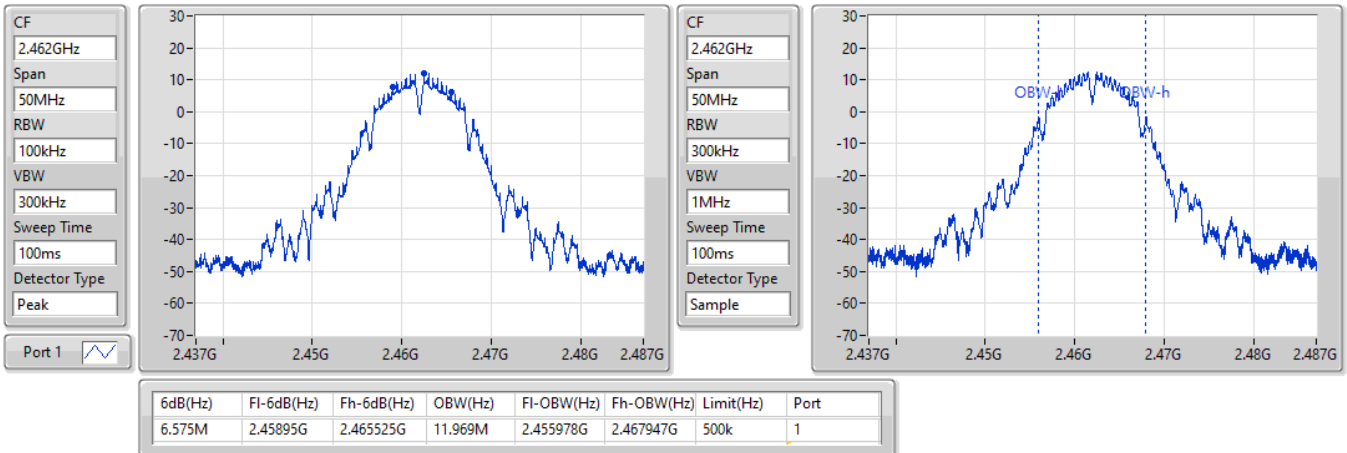

**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2437MHz**

15/02/2022

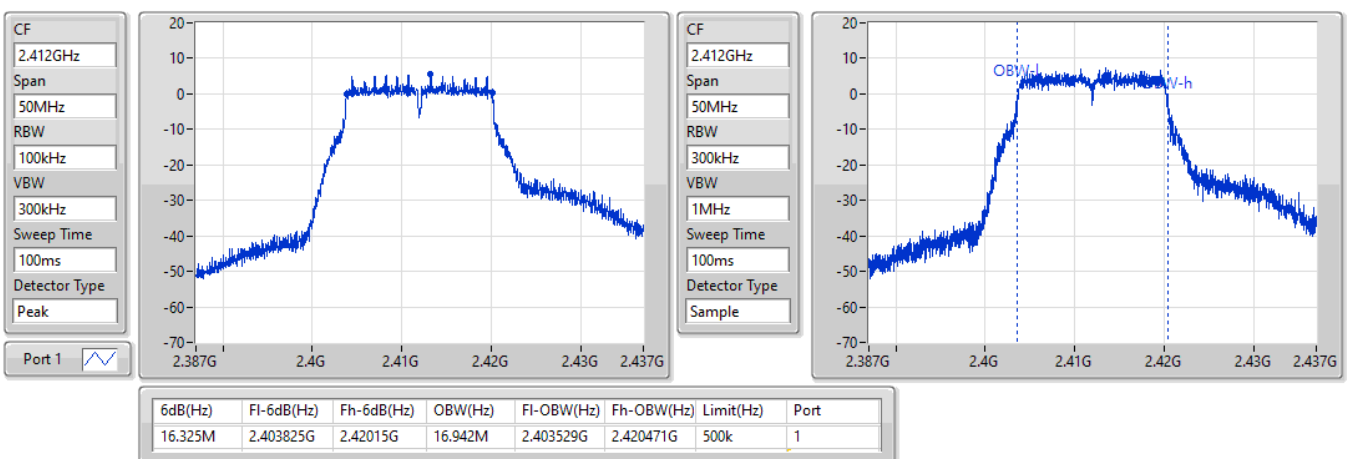


**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2462MHz**

15/02/2022

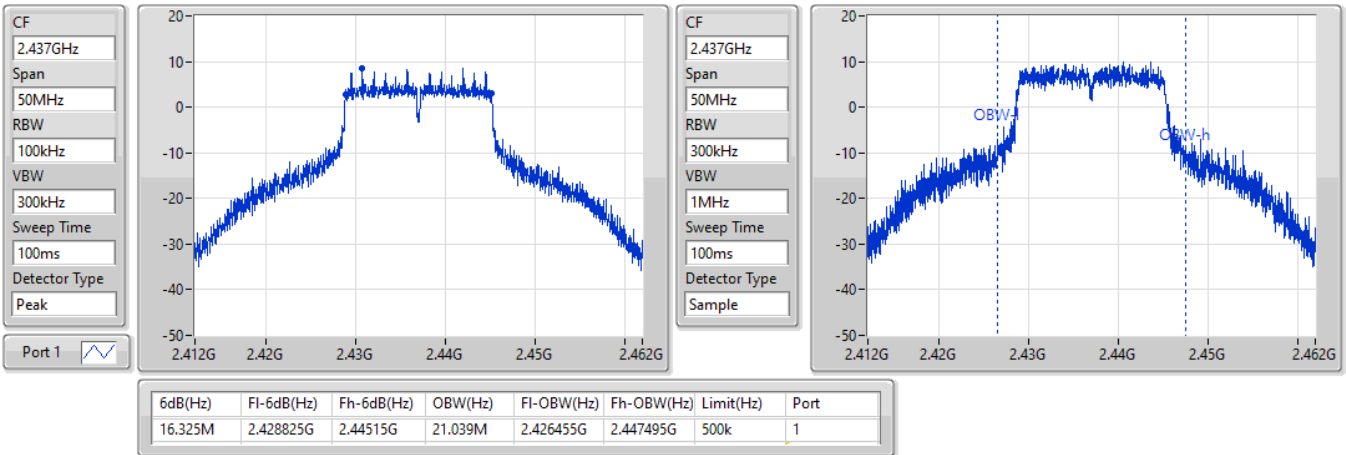

**802.11g\_Nss1,(6Mbps)\_1TX**
**EBW**
**2412MHz**

15/02/2022

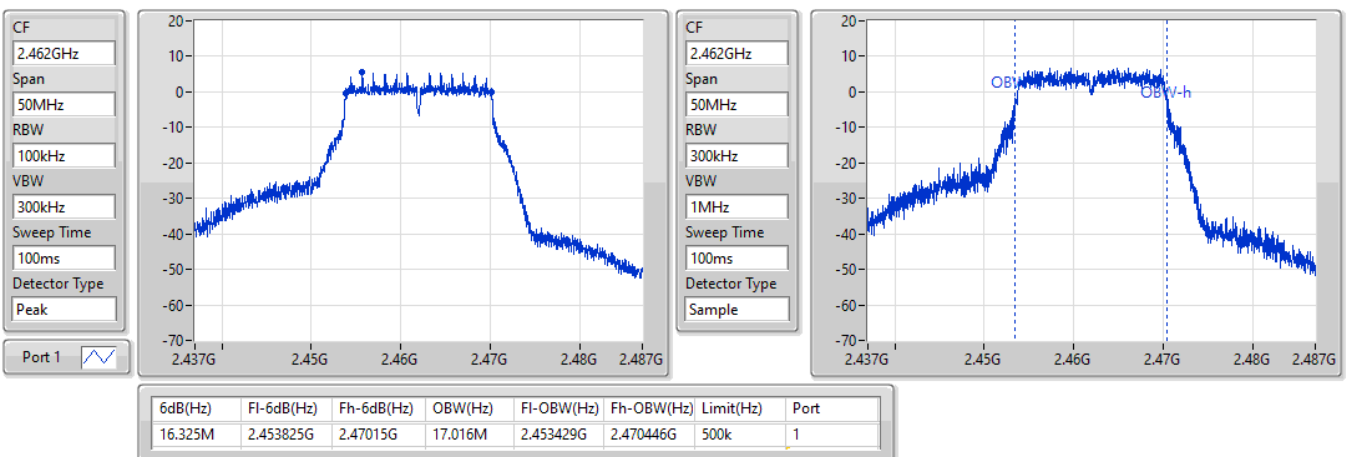


**802.11g\_Nss1,(6Mbps)\_1TX**
**EBW**
**2437MHz**

15/02/2022

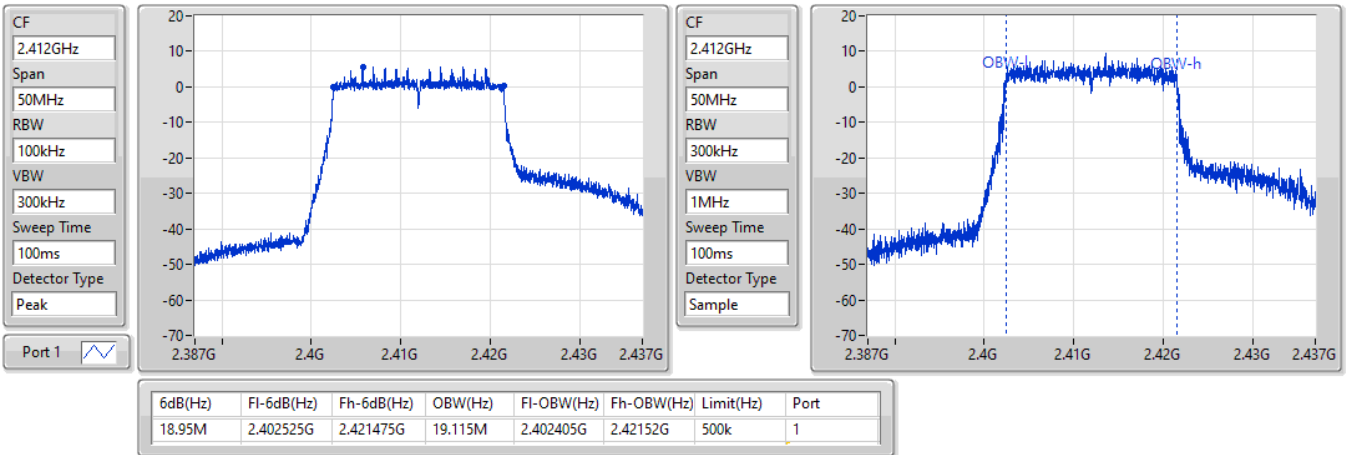

**802.11g\_Nss1,(6Mbps)\_1TX**
**EBW**
**2462MHz**

15/02/2022

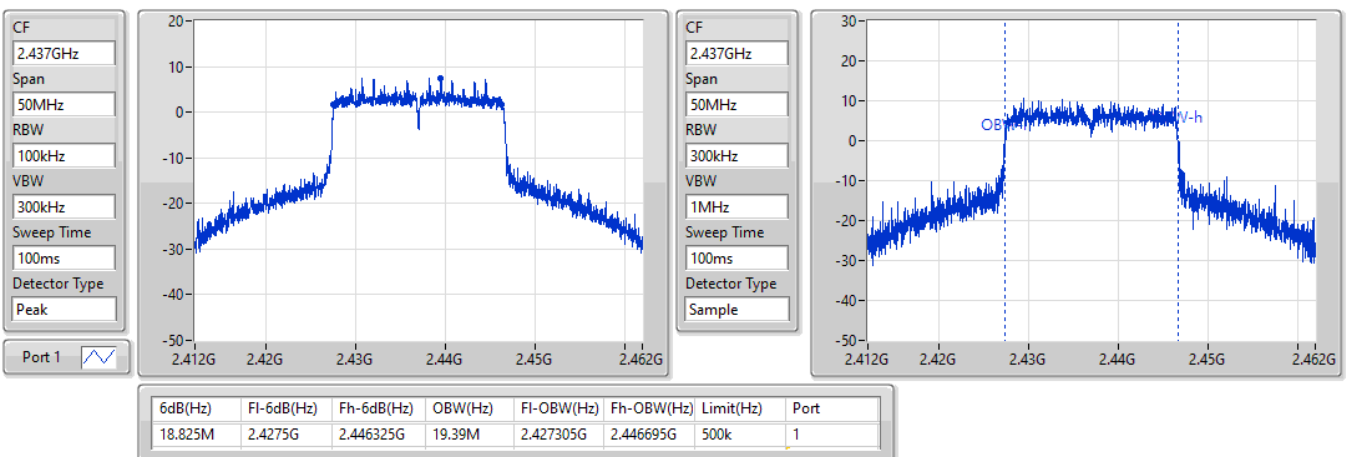


**802.11ax HEW20\_Nss1,(MCS0)\_1TX**
**EBW**
**2412MHz**

15/02/2022

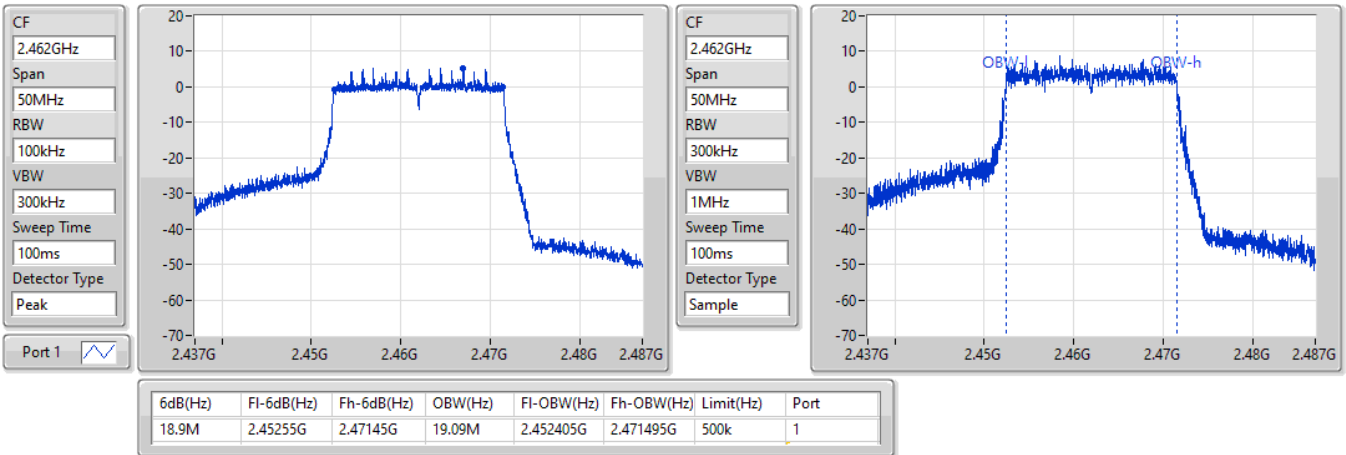

**802.11ax HEW20\_Nss1,(MCS0)\_1TX**
**EBW**
**2437MHz**

15/02/2022

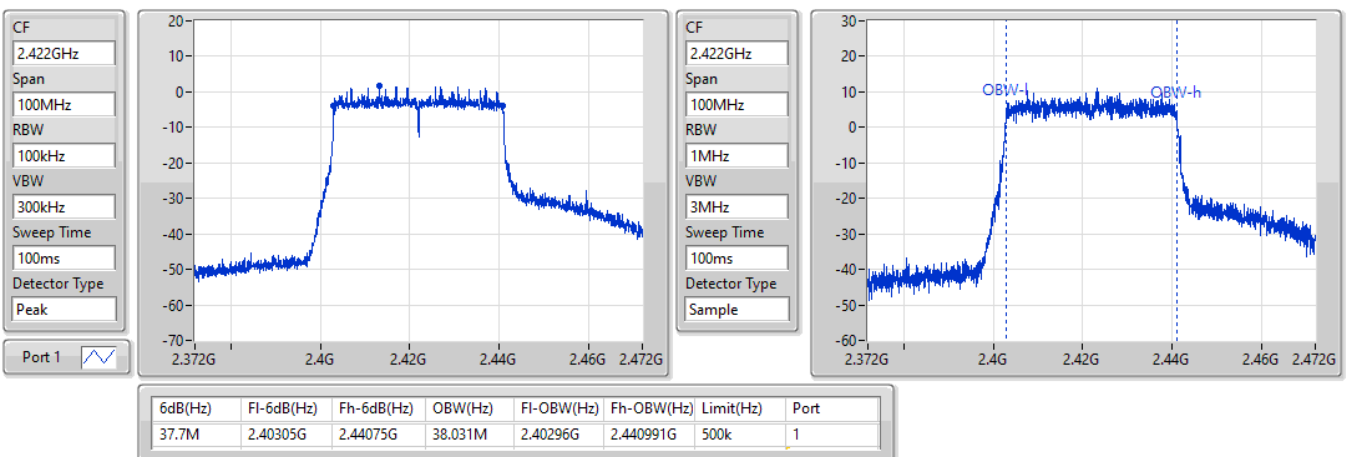


**802.11ax HEW20\_Nss1,(MCS0)\_1TX**
**EBW**
**2462MHz**

15/02/2022

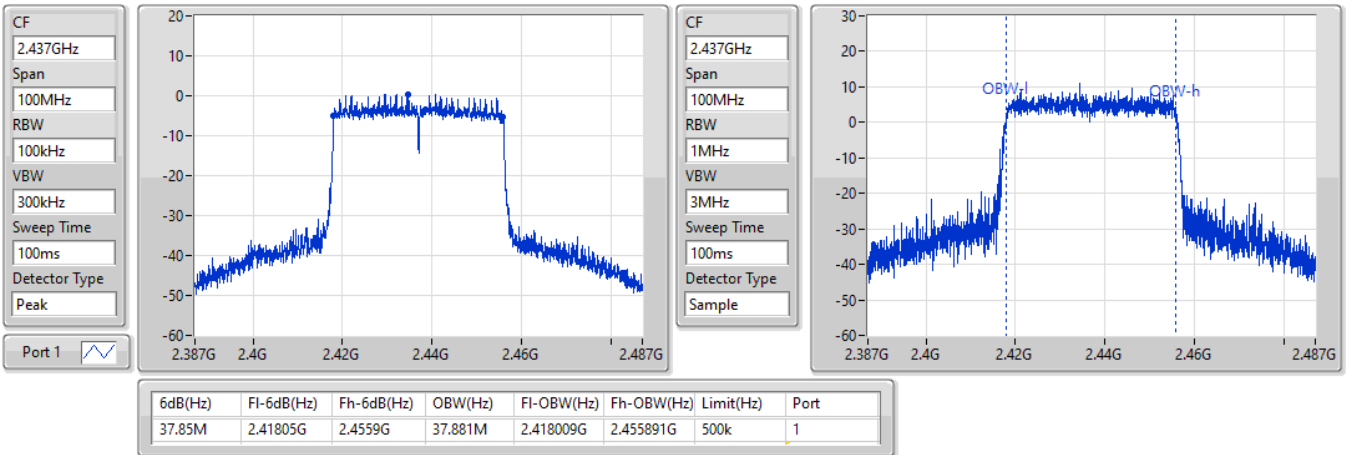

**802.11ax HEW40\_Nss1,(MCS0)\_1TX**
**EBW**
**2422MHz**

15/02/2022

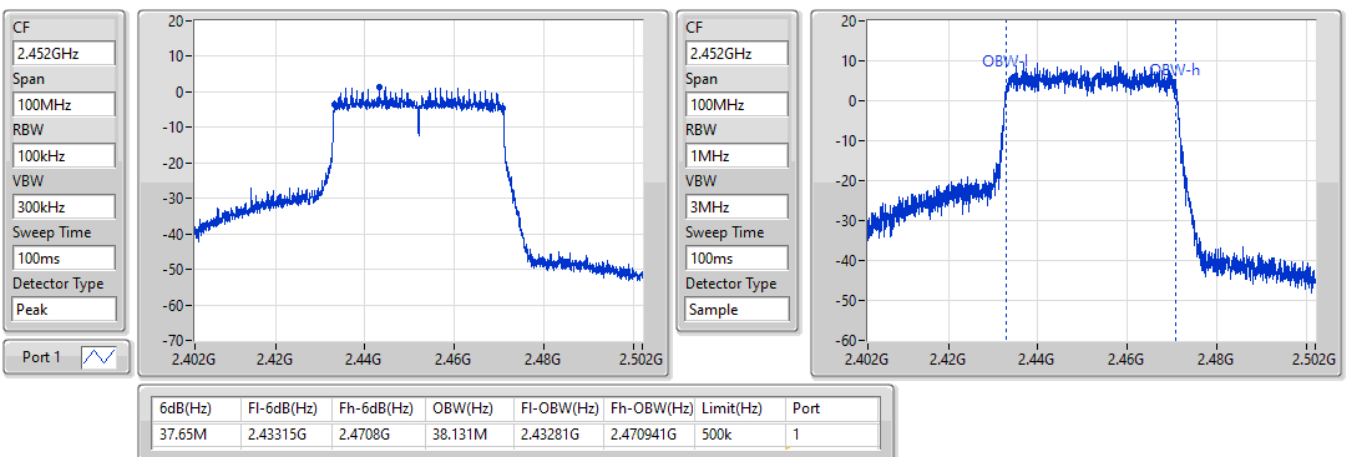


**802.11ax HEW40\_Nss1,(MCS0)\_1TX**
**EBW**
**2437MHz**

15/02/2022


**802.11ax HEW40\_Nss1,(MCS0)\_1TX**
**EBW**
**2452MHz**

15/02/2022





**Summary**

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) |
|--------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                  | -                    | -                  |
| 802.11b_Nss1,(1Mbps)_1TX       | 21.72                | 0.14859            |
| 802.11g_Nss1,(6Mbps)_1TX       | 19.76                | 0.09462            |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 19.12                | 0.08166            |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 16.42                | 0.04385            |

## Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|----------------------|----------------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.00        | 20.34           | 20.34                | 30.00                |
| 2437MHz                        | Pass   | 4.00        | 21.72           | 21.72                | 30.00                |
| 2462MHz                        | Pass   | 4.00        | 19.92           | 19.92                | 30.00                |
| 802.11g_Nss1,(6Mbps)_1TX       | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.00        | 17.56           | 17.56                | 30.00                |
| 2437MHz                        | Pass   | 4.00        | 19.76           | 19.76                | 30.00                |
| 2462MHz                        | Pass   | 4.00        | 16.99           | 16.99                | 30.00                |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.00        | 17.29           | 17.29                | 30.00                |
| 2437MHz                        | Pass   | 4.00        | 19.12           | 19.12                | 30.00                |
| 2462MHz                        | Pass   | 4.00        | 16.97           | 16.97                | 30.00                |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -      | -           | -               | -                    | -                    |
| 2422MHz                        | Pass   | 4.00        | 15.83           | 15.83                | 30.00                |
| 2437MHz                        | Pass   | 4.00        | 15.46           | 15.46                | 30.00                |
| 2452MHz                        | Pass   | 4.00        | 16.42           | 16.42                | 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                  | -                    | -                  |
| 802.11b_Nss1,(1Mbps)_1TX       | 20.95                | 0.12445            |
| 802.11g_Nss1,(6Mbps)_1TX       | 19.64                | 0.09204            |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 18.97                | 0.07889            |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 15.93                | 0.03917            |

## Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|----------------------|----------------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 8.00        | 20.07           | 20.07                | 28.00                |
| 2437MHz                        | Pass   | 8.00        | 20.95           | 20.95                | 28.00                |
| 2462MHz                        | Pass   | 8.00        | 19.95           | 19.95                | 28.00                |
| 802.11g_Nss1,(6Mbps)_1TX       | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 8.00        | 16.80           | 16.80                | 28.00                |
| 2437MHz                        | Pass   | 8.00        | 19.64           | 19.64                | 28.00                |
| 2462MHz                        | Pass   | 8.00        | 16.53           | 16.53                | 28.00                |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 8.00        | 16.84           | 16.84                | 28.00                |
| 2437MHz                        | Pass   | 8.00        | 18.97           | 18.97                | 28.00                |
| 2462MHz                        | Pass   | 8.00        | 16.15           | 16.15                | 28.00                |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -      | -           | -               | -                    | -                    |
| 2422MHz                        | Pass   | 8.00        | 15.93           | 15.93                | 28.00                |
| 2437MHz                        | Pass   | 8.00        | 15.07           | 15.07                | 28.00                |
| 2452MHz                        | Pass   | 8.00        | 15.60           | 15.60                | 28.00                |

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



Summary

| Mode                           | PD<br>(dBm/RBW) |
|--------------------------------|-----------------|
| 2.4-2.4835GHz                  | -               |
| 802.11b_Nss1,(1Mbps)_1TX       | -1.00           |
| 802.11g_Nss1,(6Mbps)_1TX       | -5.99           |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -7.30           |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -12.65          |

RBW = 3kHz;

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -                   | -               | -                     |
| 2412MHz                        | Pass   | 4.00        | -2.04               | -2.04           | 8.00                  |
| 2437MHz                        | Pass   | 4.00        | -1.00               | -1.00           | 8.00                  |
| 2462MHz                        | Pass   | 4.00        | -1.92               | -1.92           | 8.00                  |
| 802.11g_Nss1,(6Mbps)_1TX       | -      | -           | -                   | -               | -                     |
| 2412MHz                        | Pass   | 4.00        | -7.58               | -7.58           | 8.00                  |
| 2437MHz                        | Pass   | 4.00        | -5.99               | -5.99           | 8.00                  |
| 2462MHz                        | Pass   | 4.00        | -8.43               | -8.43           | 8.00                  |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     |
| 2412MHz                        | Pass   | 4.00        | -9.87               | -9.87           | 8.00                  |
| 2437MHz                        | Pass   | 4.00        | -7.30               | -7.30           | 8.00                  |
| 2462MHz                        | Pass   | 4.00        | -10.17              | -10.17          | 8.00                  |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     |
| 2422MHz                        | Pass   | 4.00        | -14.10              | -14.10          | 8.00                  |
| 2437MHz                        | Pass   | 4.00        | -13.61              | -13.61          | 8.00                  |
| 2452MHz                        | Pass   | 4.00        | -12.65              | -12.65          | 8.00                  |

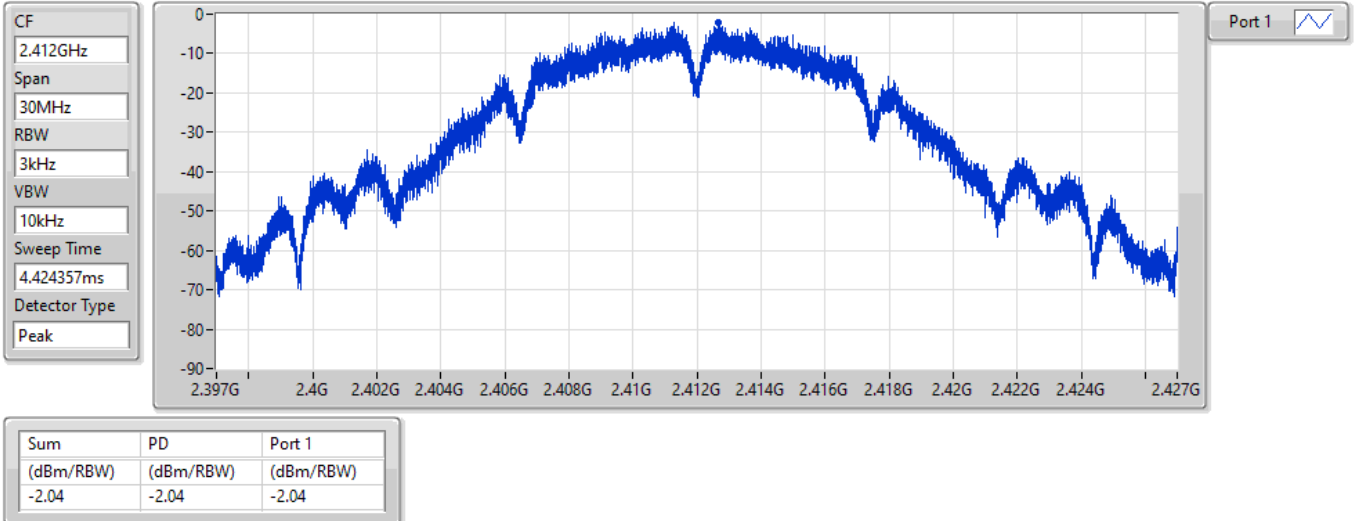
DG = Directional Gain; RBW = 3kHz;  
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

## 802.11b\_Nss1,(1Mbps)\_1TX

## PSD

2412MHz

15/02/2022

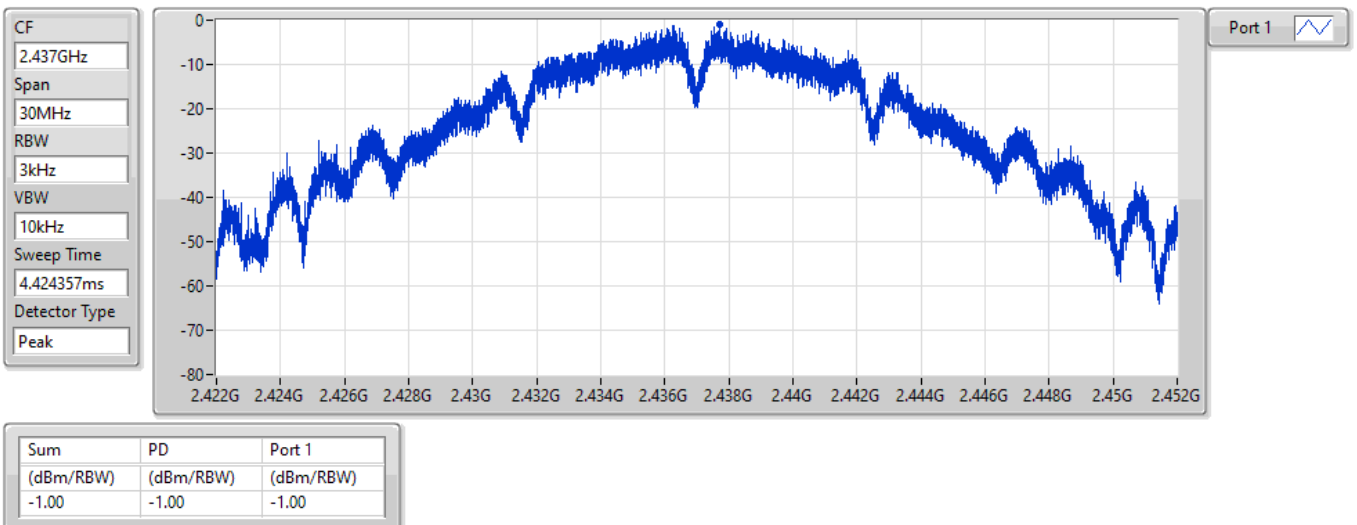


## 802.11b\_Nss1,(1Mbps)\_1TX

## PSD

2437MHz

15/02/2022

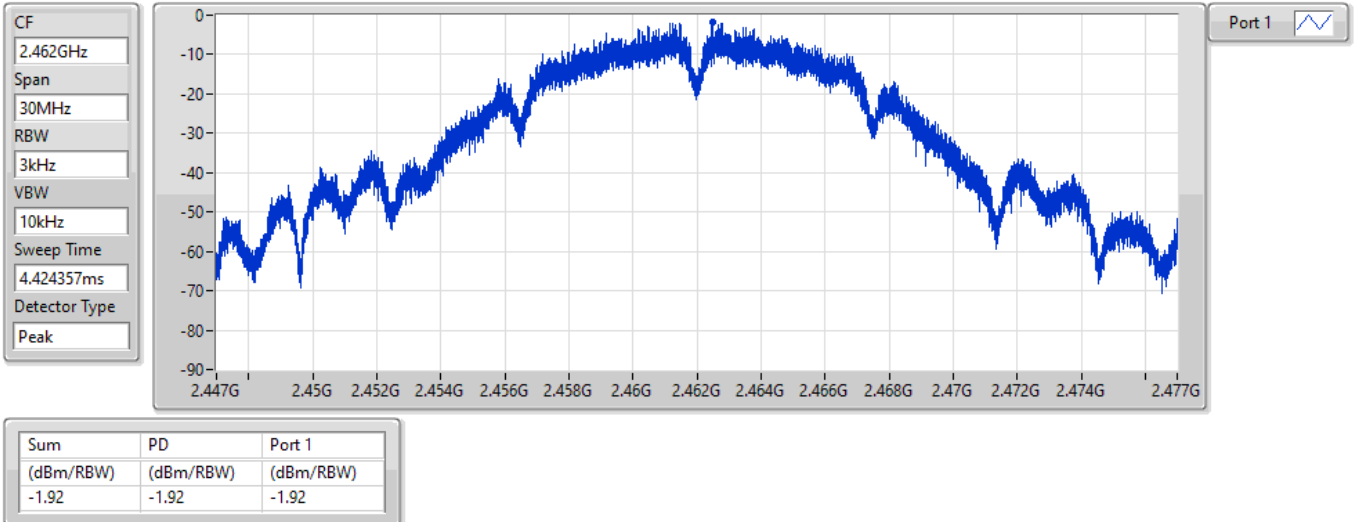


## 802.11b\_Nss1,(1Mbps)\_1TX

## PSD

2462MHz

15/02/2022

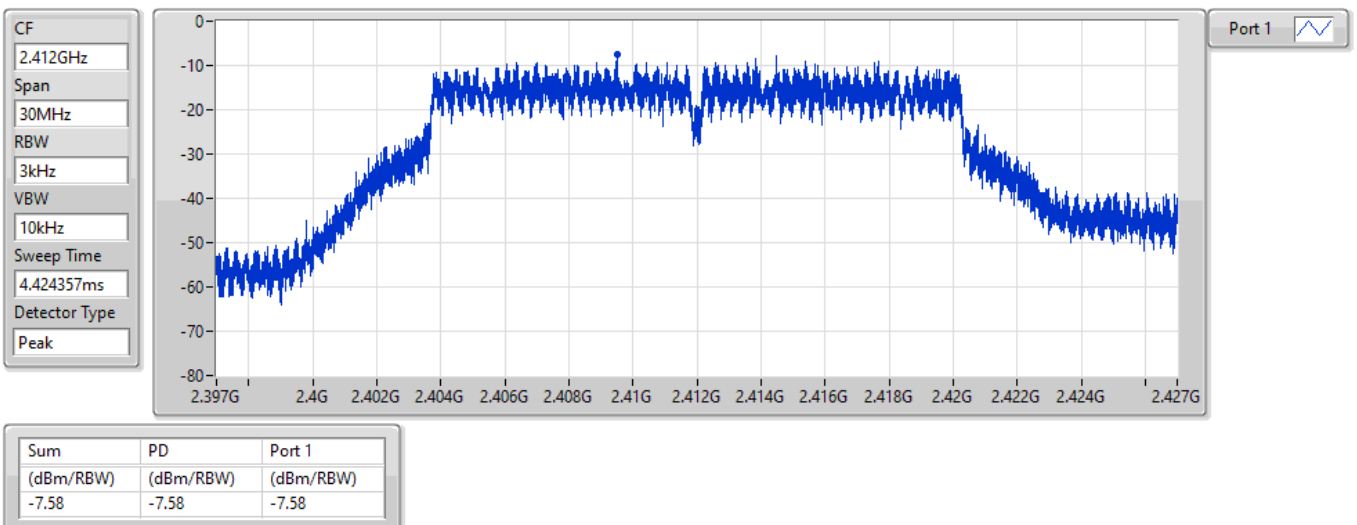


## 802.11g\_Nss1,(6Mbps)\_1TX

## PSD

2412MHz

15/02/2022



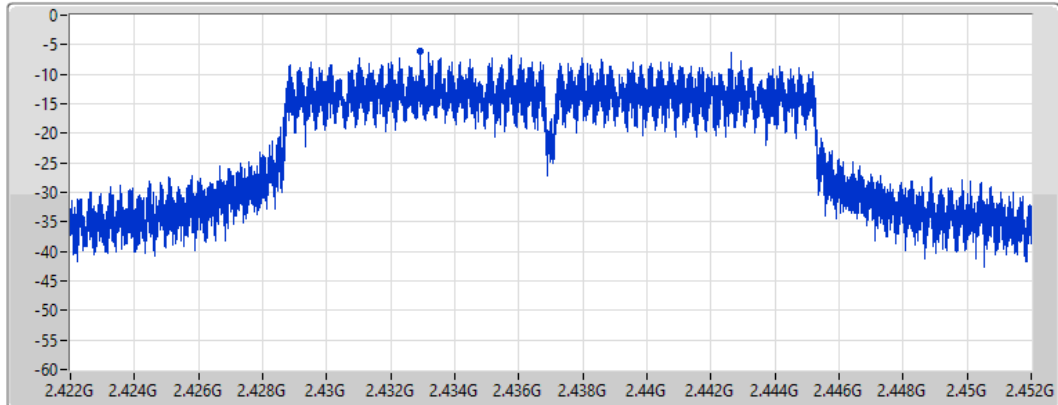
## 802.11g\_Nss1,(6Mbps)\_1TX

## PSD

2437MHz

15/02/2022

CF  
2.437GHz  
Span  
30MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
4.424357ms  
Detector Type  
Peak



Port 1

| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -5.99    | -5.99    | -5.99    |

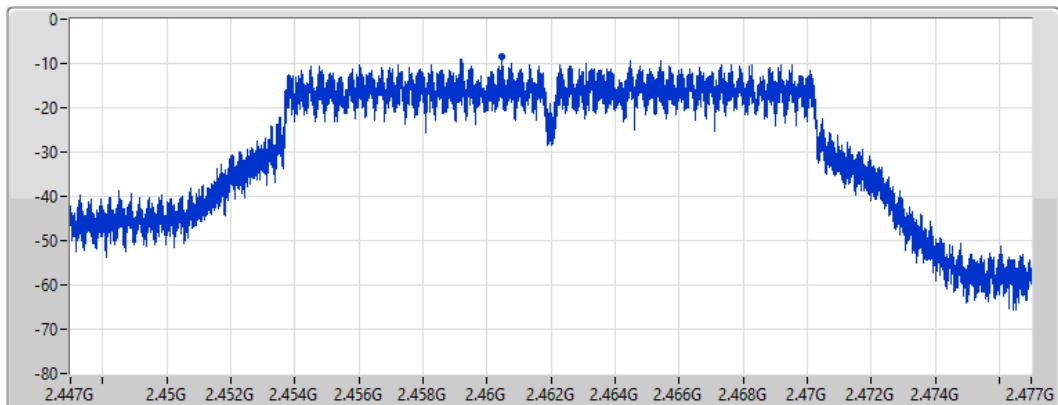
## 802.11g\_Nss1,(6Mbps)\_1TX

## PSD

2462MHz

15/02/2022

CF  
2.462GHz  
Span  
30MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
4.424357ms  
Detector Type  
Peak



Port 1

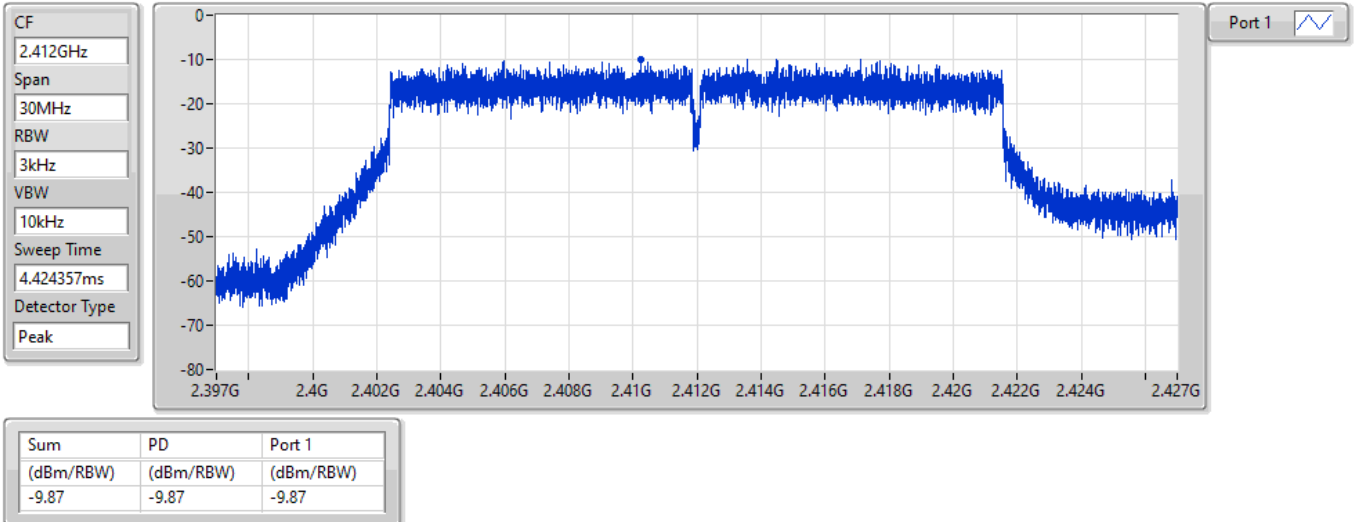
| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -8.43    | -8.43    | -8.43    |

## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## PSD

2412MHz

15/02/2022

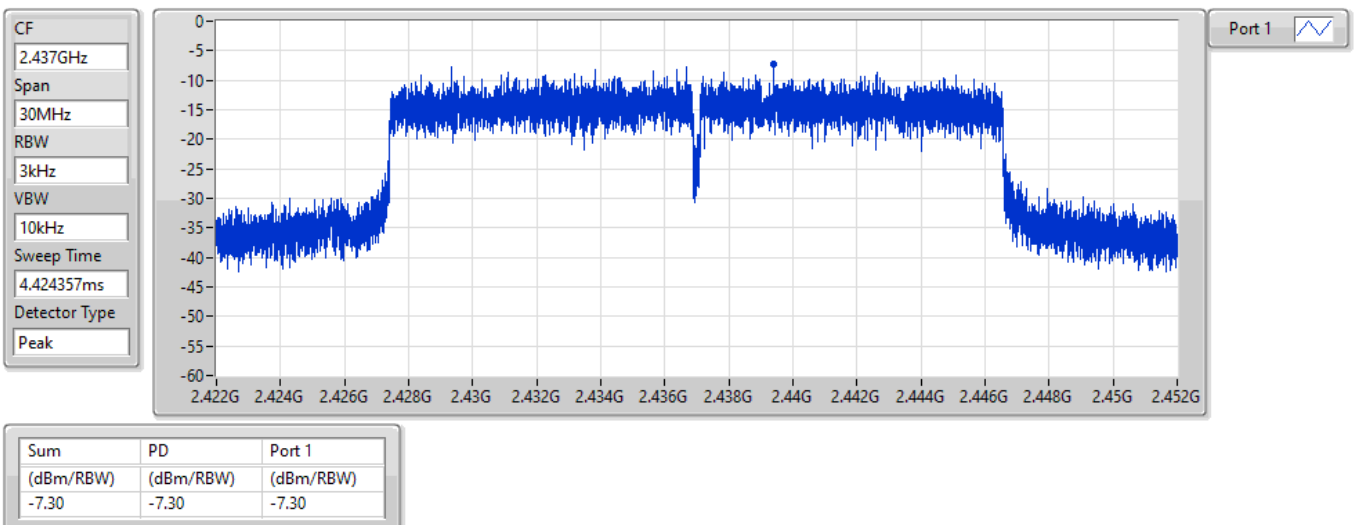


## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## PSD

2437MHz

15/02/2022

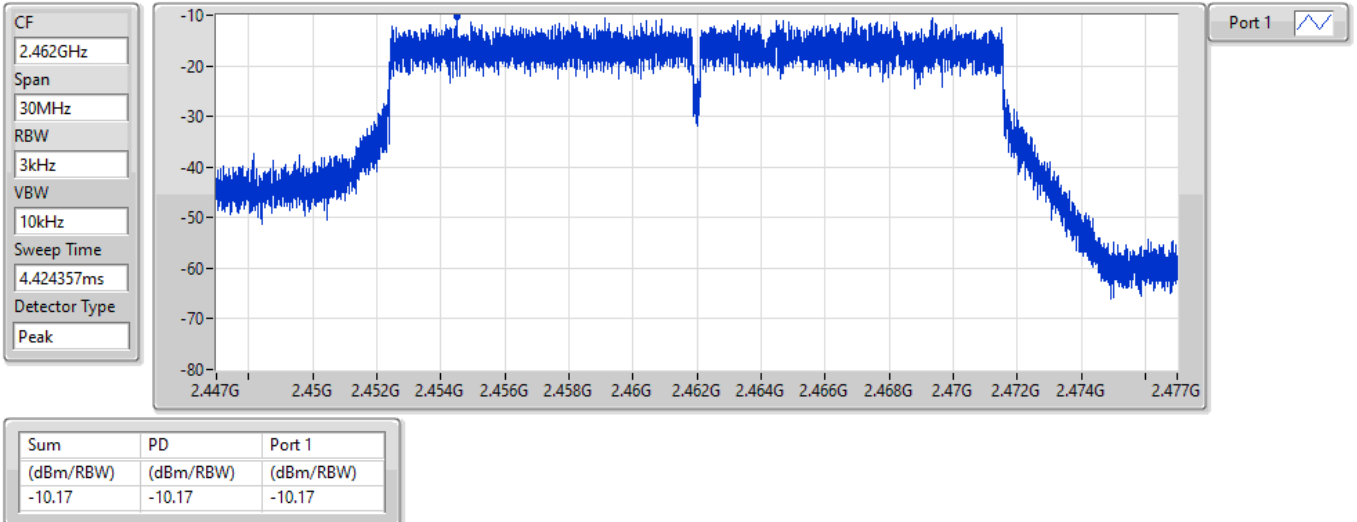


## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## PSD

2462MHz

15/02/2022

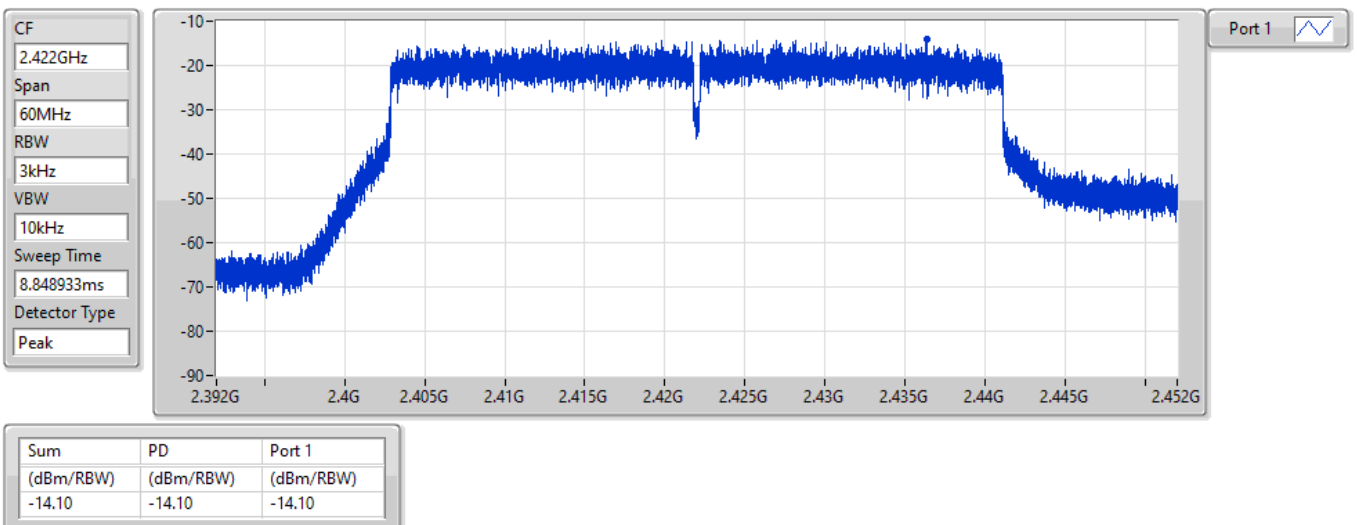


## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## PSD

2422MHz

15/02/2022

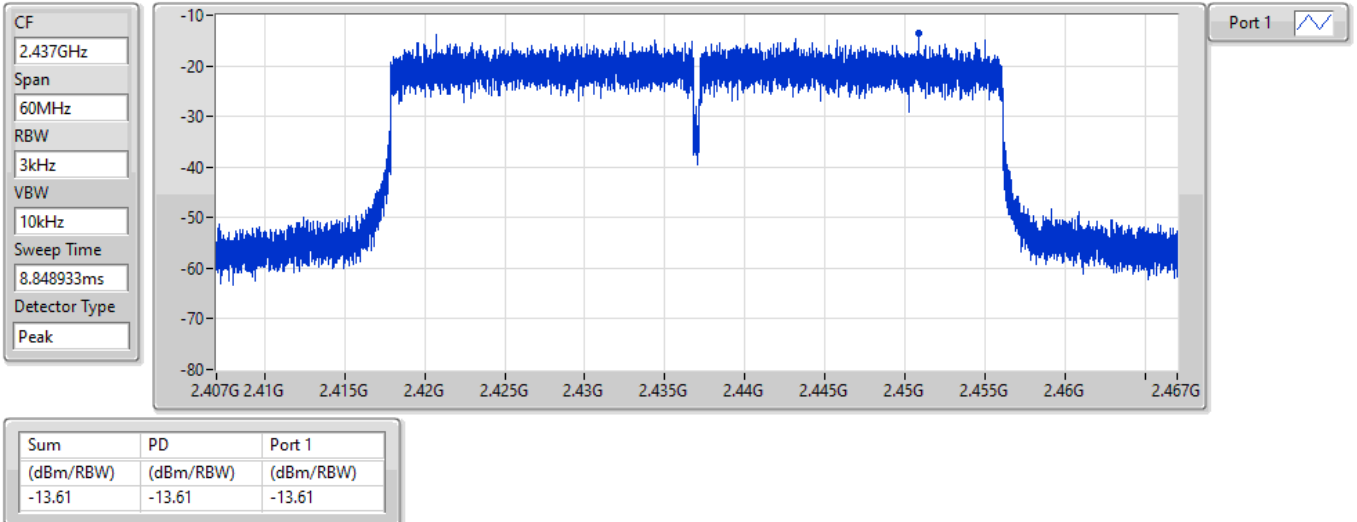


## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## PSD

2437MHz

15/02/2022

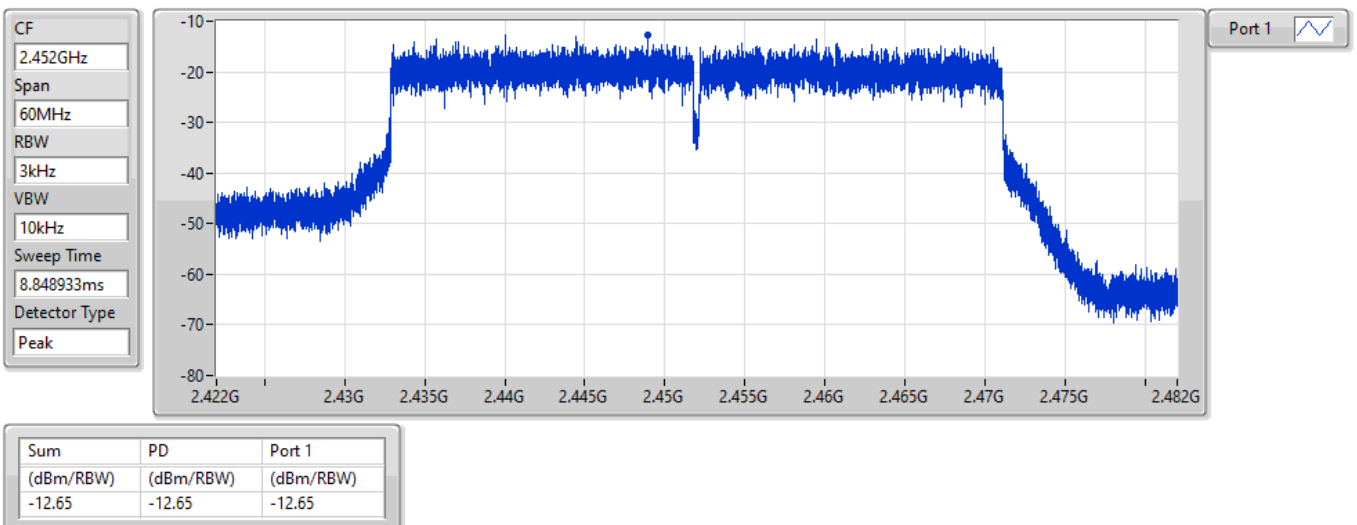


## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## PSD

2452MHz

15/02/2022



**Summary**

| Mode                           | PD<br>(dBm/RBW) |
|--------------------------------|-----------------|
| 2.4-2.4835GHz                  | -               |
| 802.11b_Nss1,(1Mbps)_1TX       | -1.93           |
| 802.11g_Nss1,(6Mbps)_1TX       | -6.26           |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -6.12           |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -12.44          |

RBW = 3kHz;

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -                   | -               | -                     |
| 2412MHz                        | Pass   | 8.00        | -1.93               | -1.93           | 6.00                  |
| 2437MHz                        | Pass   | 8.00        | -2.00               | -2.00           | 6.00                  |
| 2462MHz                        | Pass   | 8.00        | -2.22               | -2.22           | 6.00                  |
| 802.11g_Nss1,(6Mbps)_1TX       | -      | -           | -                   | -               | -                     |
| 2412MHz                        | Pass   | 8.00        | -8.11               | -8.11           | 6.00                  |
| 2437MHz                        | Pass   | 8.00        | -6.26               | -6.26           | 6.00                  |
| 2462MHz                        | Pass   | 8.00        | -8.28               | -8.28           | 6.00                  |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     |
| 2412MHz                        | Pass   | 8.00        | -8.85               | -8.85           | 6.00                  |
| 2437MHz                        | Pass   | 8.00        | -6.12               | -6.12           | 6.00                  |
| 2462MHz                        | Pass   | 8.00        | -10.77              | -10.77          | 6.00                  |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     |
| 2422MHz                        | Pass   | 8.00        | -12.44              | -12.44          | 6.00                  |
| 2437MHz                        | Pass   | 8.00        | -15.00              | -15.00          | 6.00                  |
| 2452MHz                        | Pass   | 8.00        | -12.97              | -12.97          | 6.00                  |

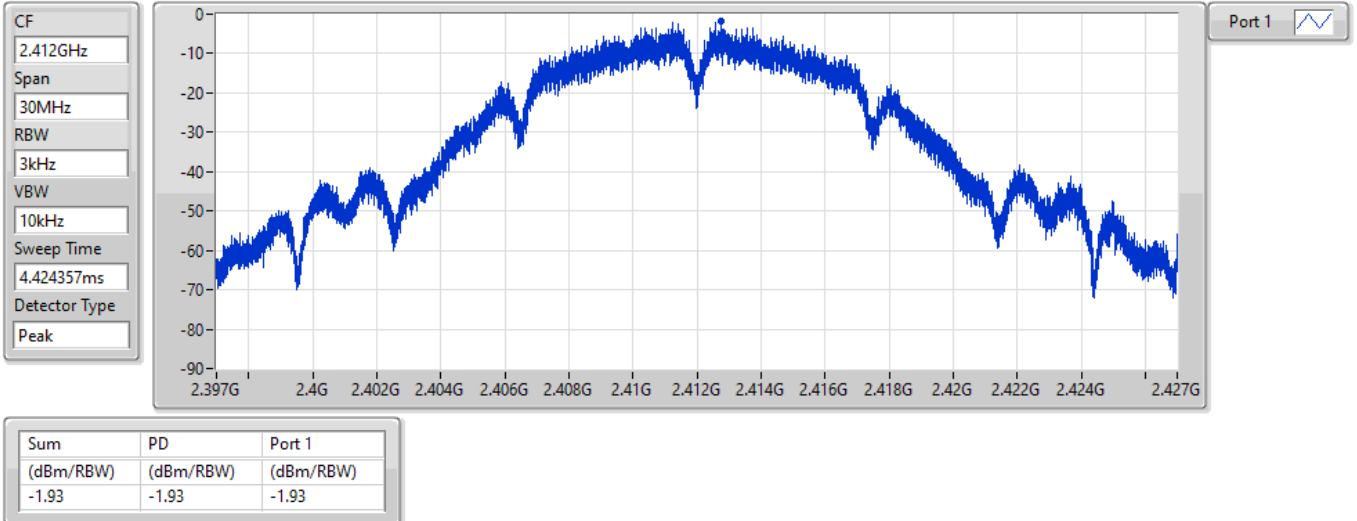
DG = Directional Gain; RBW = 3kHz;  
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

## 802.11b\_Nss1,(1Mbps)\_1TX

## PSD

2412MHz

15/02/2022

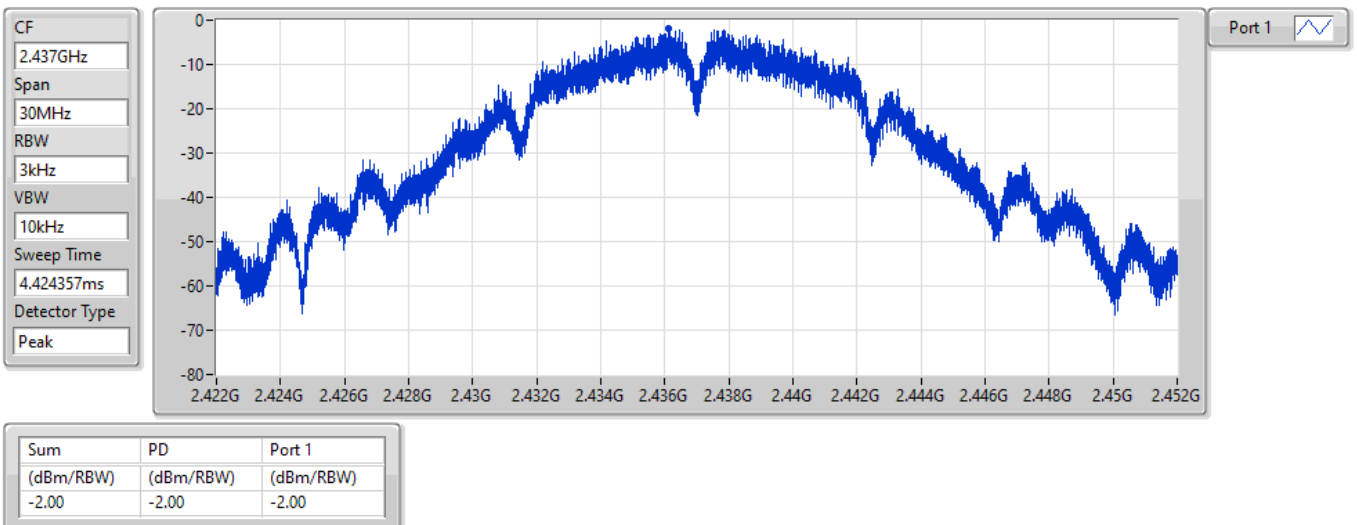


## 802.11b\_Nss1,(1Mbps)\_1TX

## PSD

2437MHz

15/02/2022



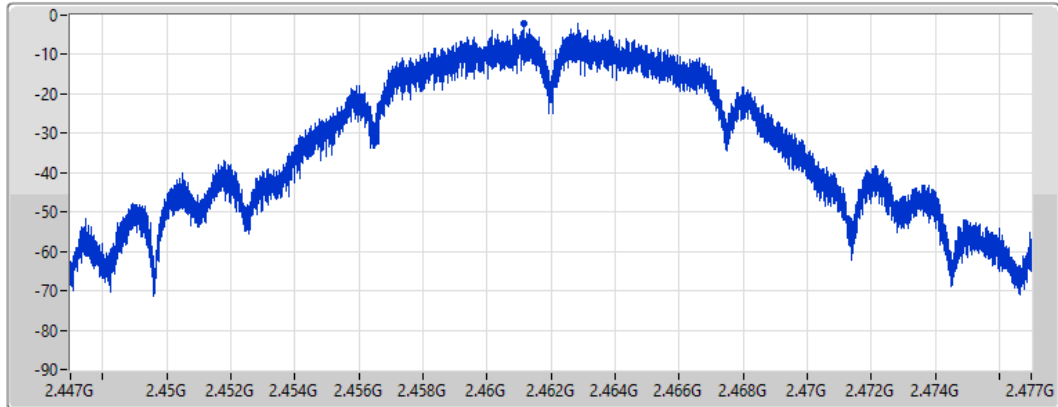
## 802.11b\_Nss1,(1Mbps)\_1TX

## PSD

2462MHz

15/02/2022

CF  
2.462GHz  
Span  
30MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
4.424357ms  
Detector Type  
Peak



Port 1

| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -2.22    | -2.22    | -2.22    |

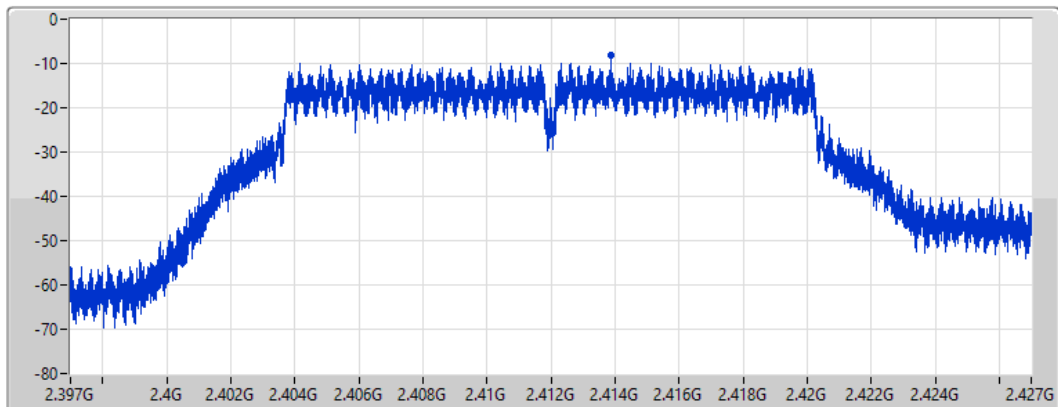
## 802.11g\_Nss1,(6Mbps)\_1TX

## PSD

2412MHz

15/02/2022

CF  
2.412GHz  
Span  
30MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
4.424357ms  
Detector Type  
Peak



Port 1

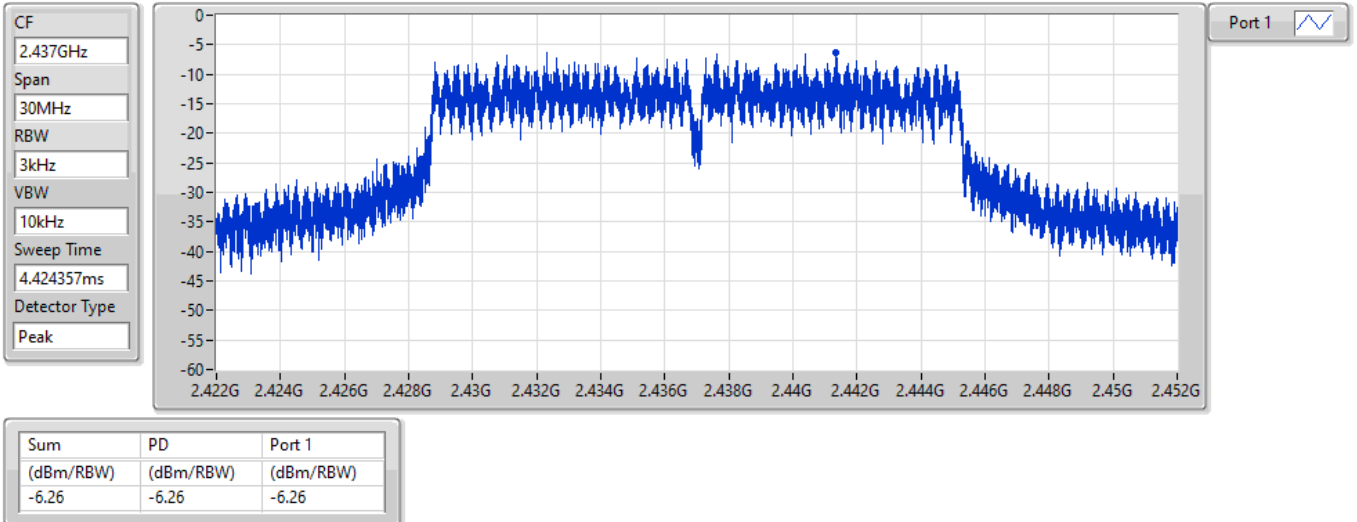
| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -8.11    | -8.11    | -8.11    |

## 802.11g\_Nss1,(6Mbps)\_1TX

## PSD

2437MHz

15/02/2022

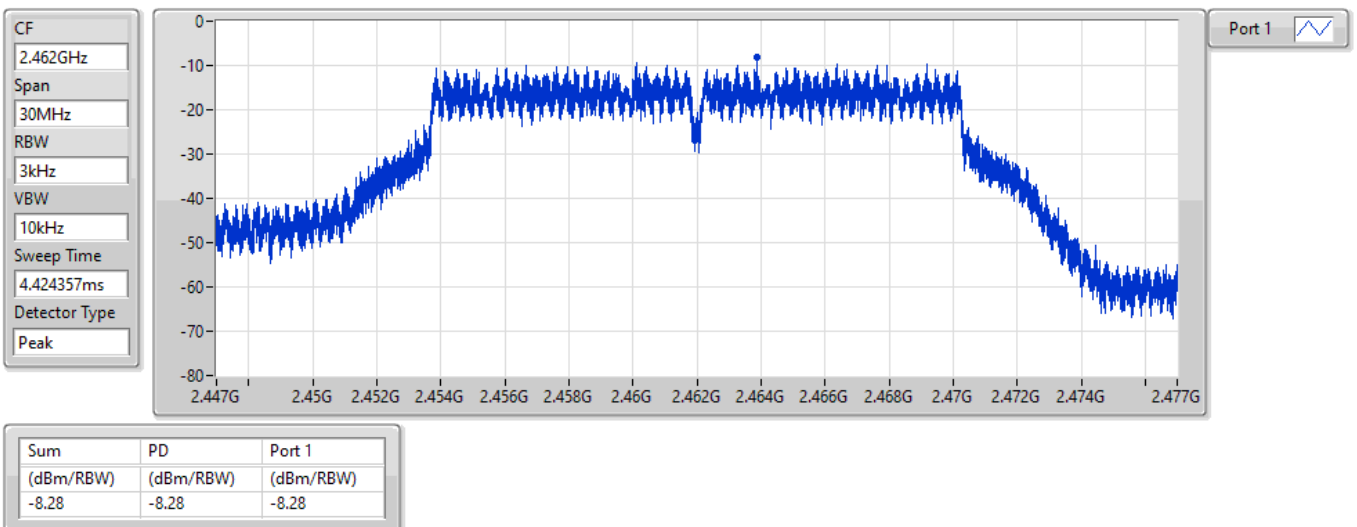


## 802.11g\_Nss1,(6Mbps)\_1TX

## PSD

2462MHz

15/02/2022

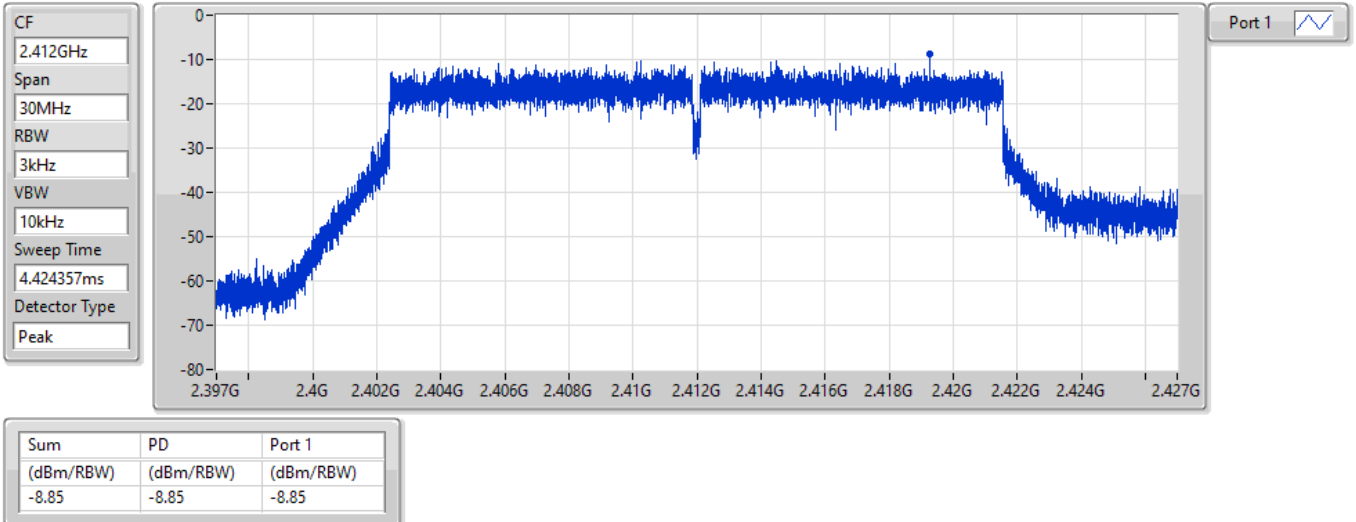


## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## PSD

2412MHz

15/02/2022

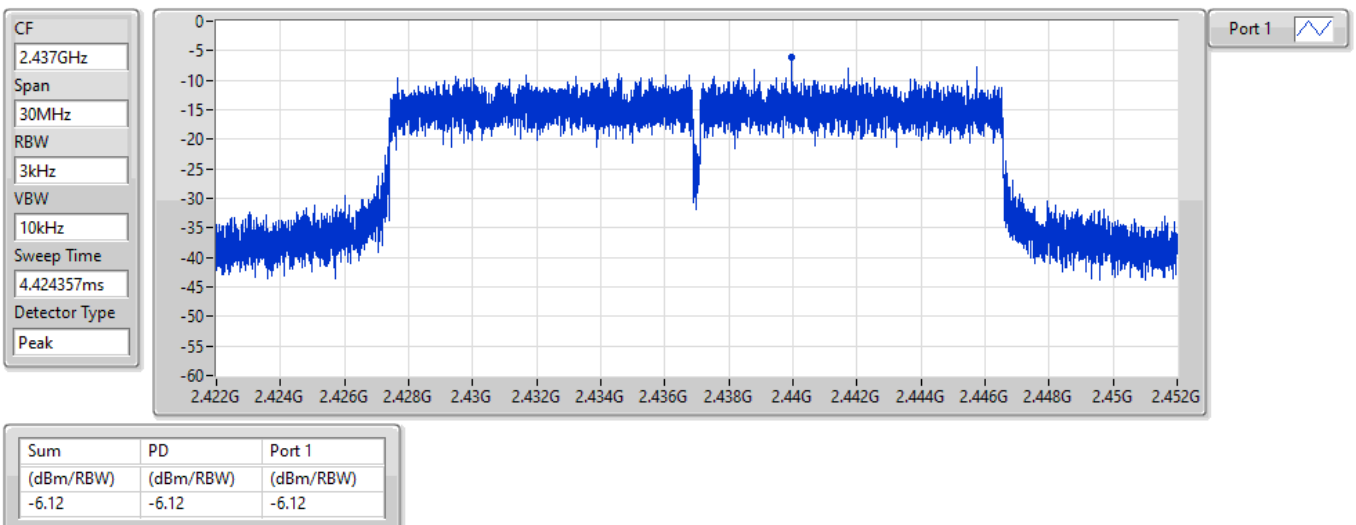


## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## PSD

2437MHz

15/02/2022

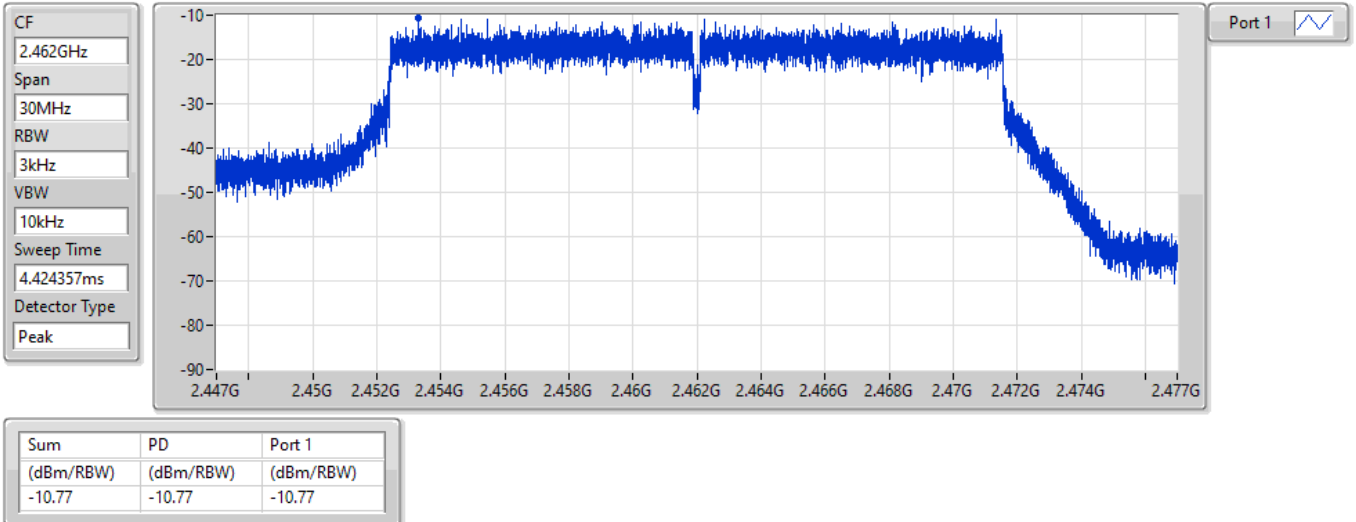


## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## PSD

2462MHz

15/02/2022

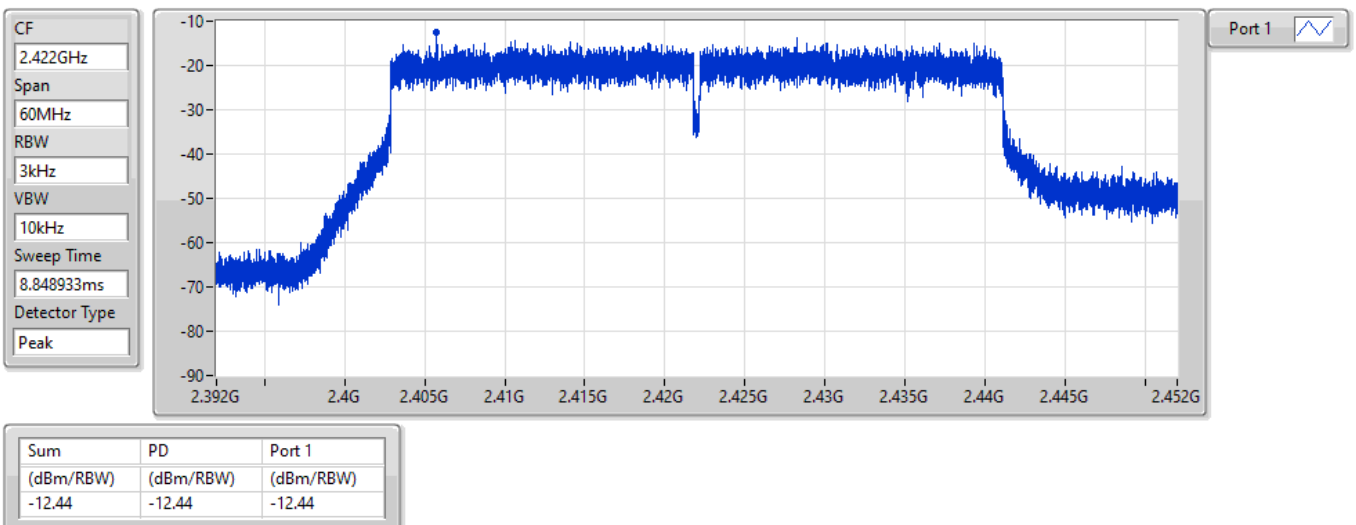


## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## PSD

2422MHz

15/02/2022

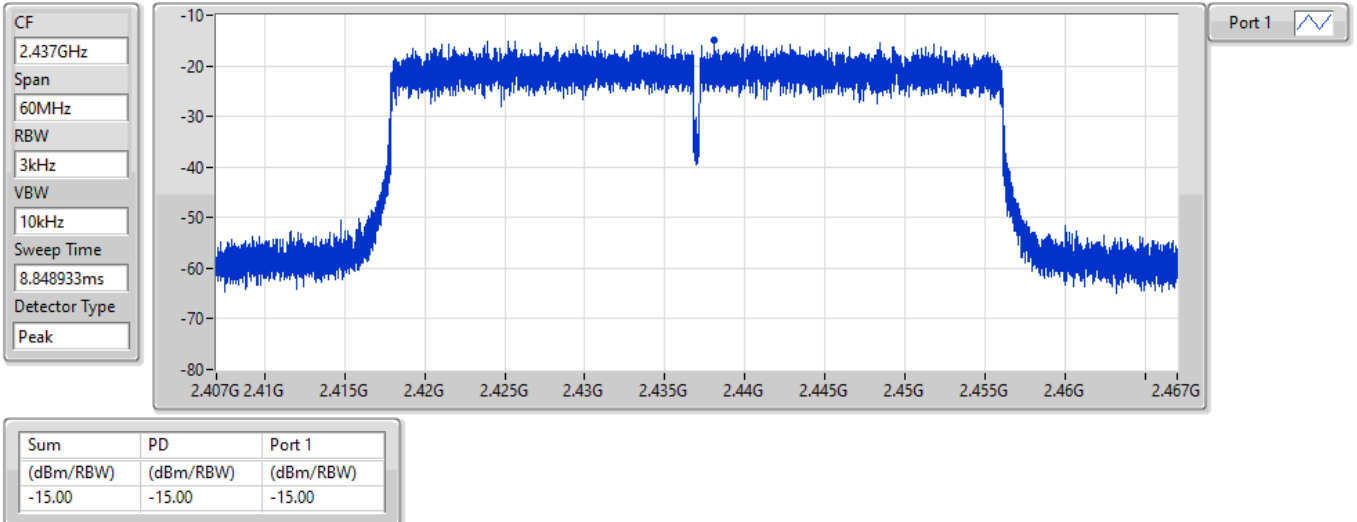


## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## PSD

2437MHz

15/02/2022

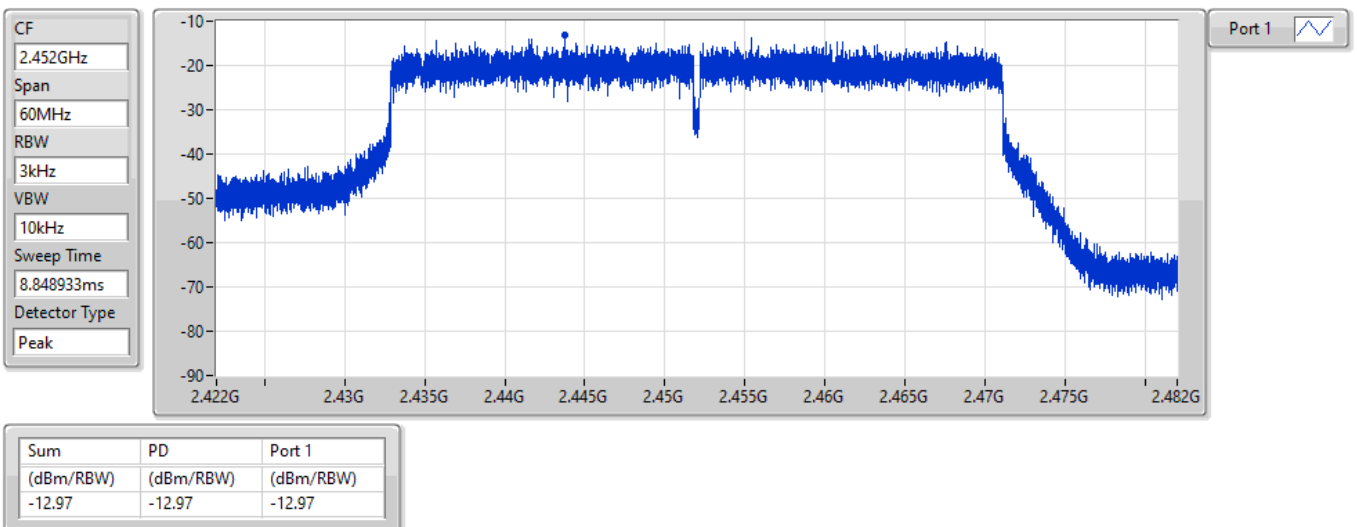


## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## PSD

2452MHz

15/02/2022



**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)_1TX       | Pass   | 2.43599G    | 13.63        | -16.37         | 2.30204G     | -52.36         | 2.4G         | -28.30         | 2.4G         | -27.78         | 2.4898G      | -48.99         | 7.23514G     | -35.11         | 1    |
| 802.11g_Nss1(6Mbps)_1TX       | Pass   | 2.43073G    | 8.66         | -21.34         | 1.6179G      | -53.09         | 2.39988G     | -32.10         | 2.4G         | -32.09         | 2.50684G     | -50.10         | 7.24076G     | -42.37         | 1    |
| 802.11ax HEW20_Nss1(MCS0)_1TX | Pass   | 2.43073G    | 7.62         | -22.38         | 2.19195G     | -52.86         | 2.39996G     | -32.69         | 2.4G         | -34.99         | 2.50528G     | -50.46         | 7.23233G     | -43.63         | 1    |
| 802.11ax HEW40_Nss1(MCS0)_1TX | Pass   | 2.44325G    | 2.08         | -27.92         | 907.36M      | -53.43         | 2.39948G     | -34.47         | 2.4G         | -33.35         | 2.49326G     | -50.75         | 17.66326G    | -47.51         | 1    |

**Result**

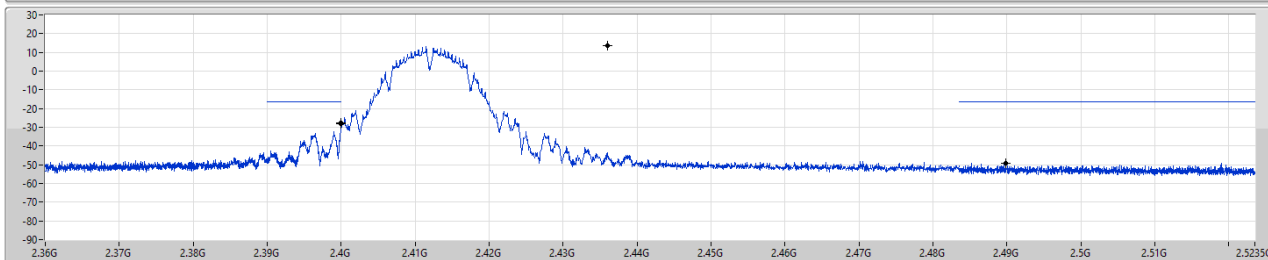
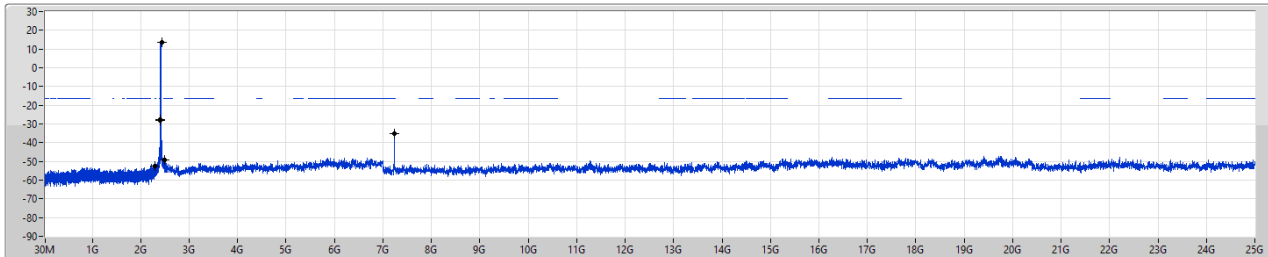
| Mode                           | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|--------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43599G    | 13.63        | -16.37         | 2.30204G     | -52.36         | 2.4G         | -28.30         | 2.4G         | -27.78         | 2.4898G      | -48.99         | 7.23514G     | -35.11         | 1    |
| 2437MHz                        | Pass   | 2.43599G    | 13.63        | -16.37         | 2.30466G     | -50.45         | 2.39948G     | -38.23         | 2.4G         | -40.76         | 2.48576G     | -44.76         | 16.91127G    | -48.00         | 1    |
| 2462MHz                        | Pass   | 2.43599G    | 13.63        | -16.37         | 2.15554G     | -52.13         | 2.3913G      | -48.87         | 2.4835G      | -42.85         | 2.48448G     | -42.48         | 17.68671G    | -46.71         | 1    |
| 802.11g_Nss1,(6Mbps)_1TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43073G    | 8.66         | -21.34         | 1.6179G      | -53.09         | 2.39988G     | -32.10         | 2.4G         | -32.09         | 2.50684G     | -50.10         | 7.24076G     | -42.37         | 1    |
| 2437MHz                        | Pass   | 2.43073G    | 8.66         | -21.34         | 802.4M       | -53.72         | 2.39886G     | -35.50         | 2.4G         | -37.86         | 2.48356G     | -39.97         | 6.95699G     | -47.70         | 1    |
| 2462MHz                        | Pass   | 2.43073G    | 8.66         | -21.34         | 913.07M      | -53.10         | 2.39752G     | -49.93         | 2.4835G      | -44.00         | 2.48414G     | -42.88         | 6.15907G     | -48.49         | 1    |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43073G    | 7.62         | -22.38         | 2.19195G     | -52.86         | 2.39996G     | -32.69         | 2.4G         | -34.99         | 2.50528G     | -50.46         | 7.23233G     | -43.63         | 1    |
| 2437MHz                        | Pass   | 2.43073G    | 7.62         | -22.38         | 2.18117G     | -52.45         | 2.39866G     | -35.20         | 2.4G         | -35.60         | 2.48568G     | -41.20         | 17.69795G    | -47.50         | 1    |
| 2462MHz                        | Pass   | 2.43073G    | 7.62         | -22.38         | 2.19457G     | -52.80         | 2.39168G     | -50.61         | 2.4835G      | -42.68         | 2.48378G     | -40.81         | 17.69233G    | -47.69         | 1    |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2422MHz                        | Pass   | 2.44325G    | 2.08         | -27.92         | 907.36M      | -53.43         | 2.39948G     | -34.47         | 2.4G         | -33.35         | 2.49326G     | -50.75         | 17.66326G    | -47.51         | 1    |
| 2437MHz                        | Pass   | 2.44325G    | 2.08         | -27.92         | 2.30082G     | -53.22         | 2.39952G     | -33.38         | 2.4G         | -38.77         | 2.48566G     | -41.94         | 16.47974G    | -48.63         | 1    |
| 2452MHz                        | Pass   | 2.44325G    | 2.08         | -27.92         | 883.03M      | -53.42         | 2.39952G     | -35.96         | 2.4G         | -40.44         | 2.48446G     | -39.92         | 6.96666G     | -48.27         | 1    |

## 802.11b\_Nss1,(1Mbps)\_1TX

2412MHz

CSEndB

15/02/2022



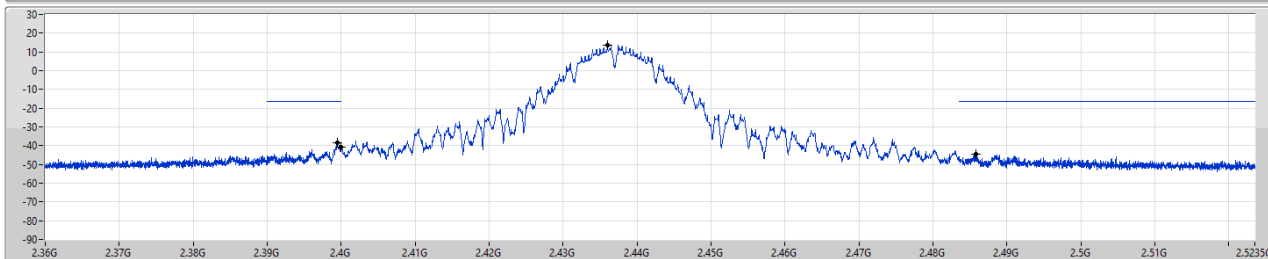
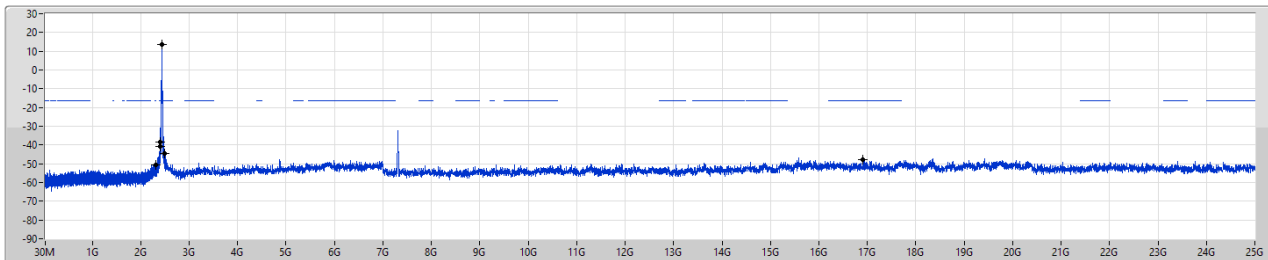
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43599G | 13.63    | -16.37     | 2.30204G | -52.36     | 2.4G     | -28.30     | 2.4G     | -27.78     | 2.4898G  | -48.99     | 7.23514G | -35.11     | 1    |

## 802.11b\_Nss1,(1Mbps)\_1TX

2437MHz

CSEndB

15/02/2022



| 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 |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.43599G | 13.63    | -16.37     | 2.30466G | -50.45     | 2.39948G | -38.23     | 2.4G     | -40.76     | 2.48576G | -44.76     | 16.91127G | -48.00     | 1    |

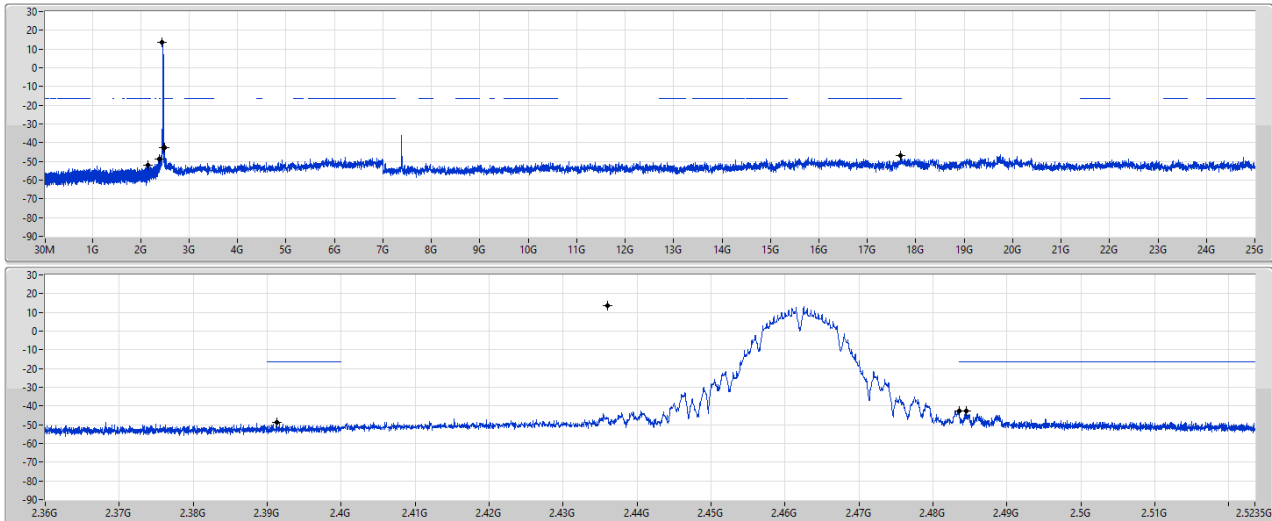
## 802.11b\_Nss1,(1Mbps)\_1TX

2462MHz

CSENdB

15/02/2022

Port 1



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 |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.43599G | 13.63    | -16.37     | 2.15554G | -52.13     | 2.3913G  | -48.87     | 2.4835G  | -42.85     | 2.48448G | -42.48     | 17.68671G | -46.71     | 1    |

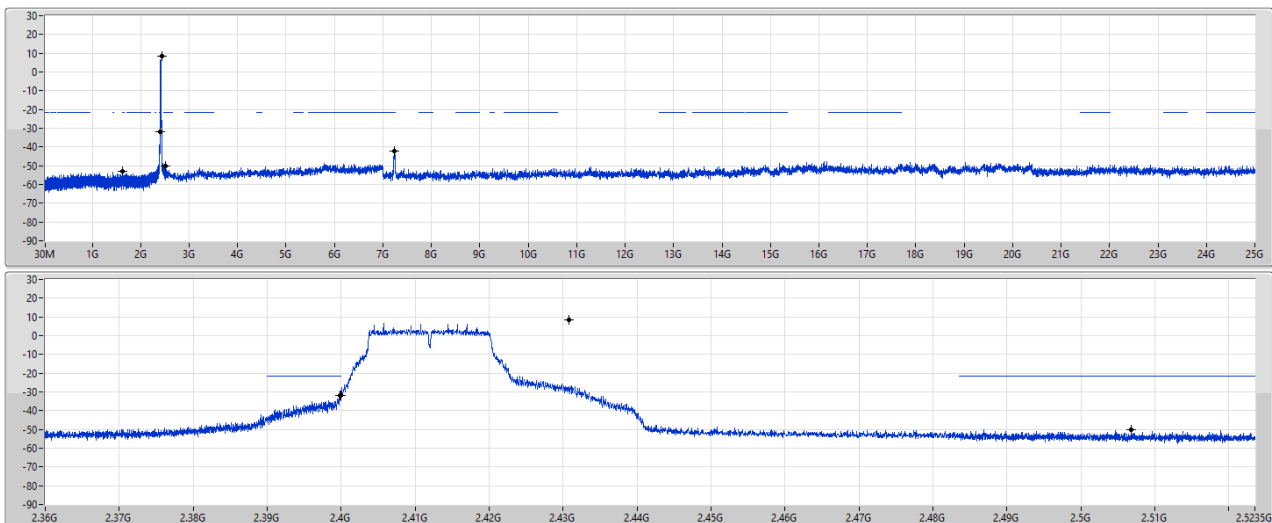
## 802.11g\_Nss1,(6Mbps)\_1TX

2412MHz

CSENdB

15/02/2022

Port 1



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

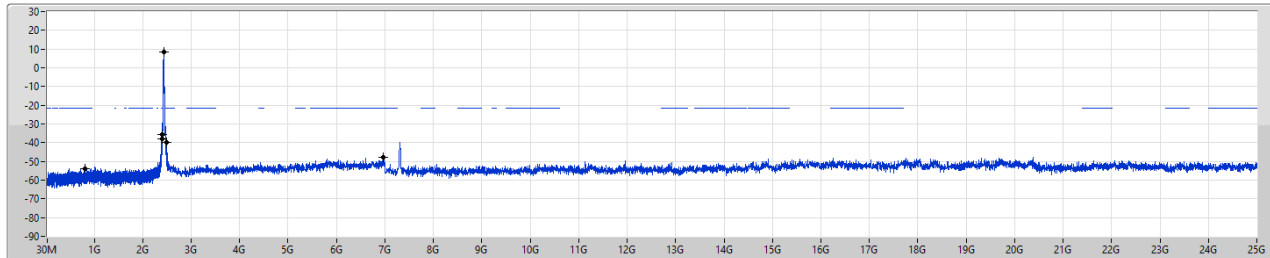
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43073G | 8.66     | -21.34     | 1.6179G  | -53.09     | 2.39988G | -32.10     | 2.4G     | -32.09     | 2.50684G | -50.10     | 7.24076G | -42.37     | 1    |

802.11g\_Nss1,(6Mbps)\_1TX

CSENdB

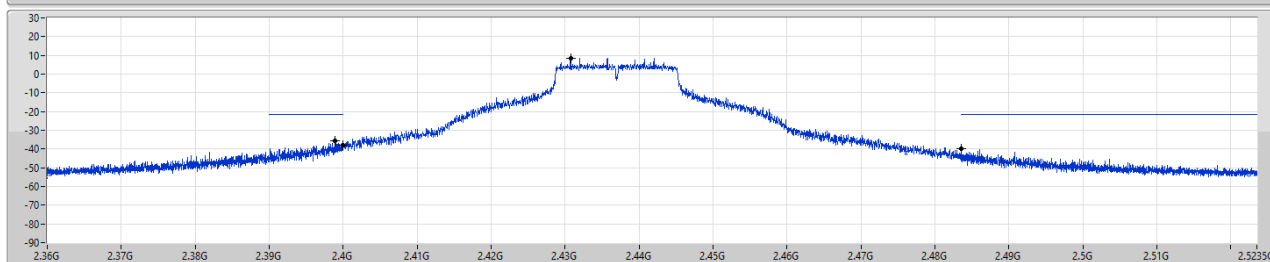
2437MHz

15/02/2022



Port 1

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



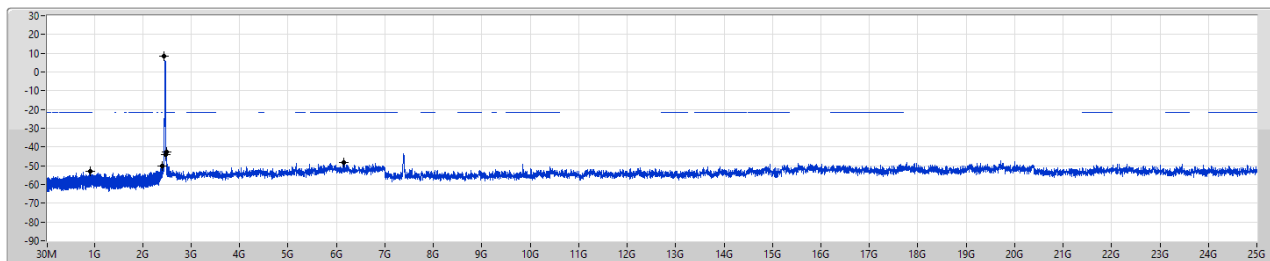
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43073G | 8.66     | -21.34     | 802.4M   | -53.72     | 2.39886G | -35.50     | 2.4G     | -37.86     | 2.48356G | -39.97     | 6.95699G | -47.70     | 1    |

802.11g\_Nss1,(6Mbps)\_1TX

CSENdB

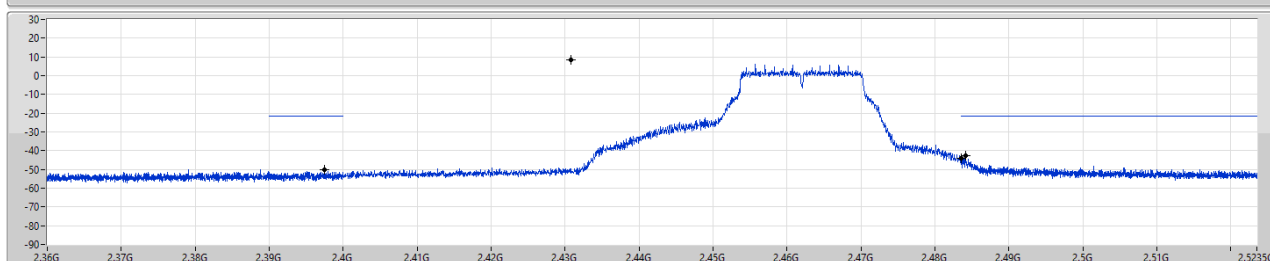
2462MHz

15/02/2022



Port 1

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



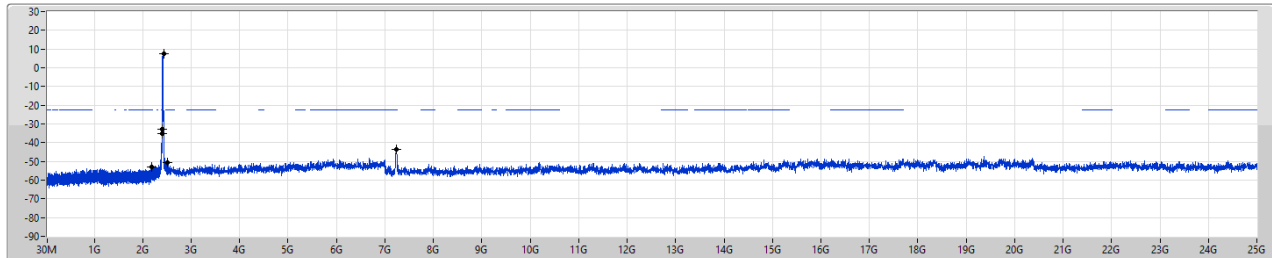
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43073G | 8.66     | -21.34     | 913.07M  | -53.10     | 2.39752G | -49.93     | 2.4835G  | -44.00     | 2.48414G | -42.88     | 6.15907G | -48.49     | 1    |

802.11ax HEW20\_Nss1,(MCS0)\_1TX

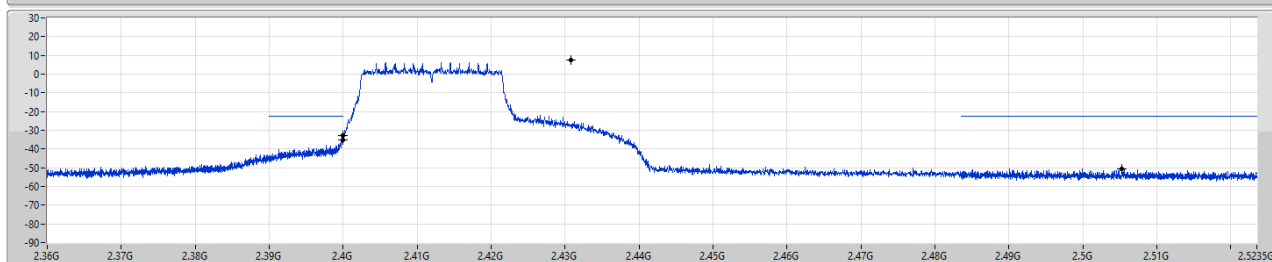
CSENdB

2412MHz

15/02/2022



Port 1



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

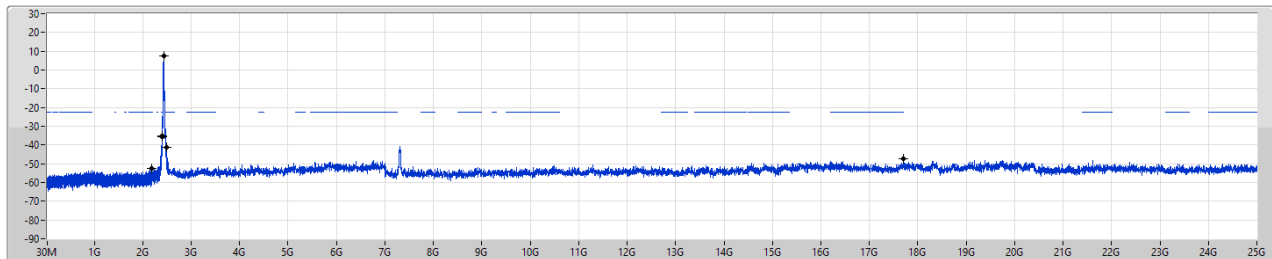
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43073G | 7.62     | -22.38     | 2.19195G | -52.86     | 2.39996G | -32.69     | 2.4G     | -34.99     | 2.50528G | -50.46     | 7.23233G | -43.63     | 1    |

802.11ax HEW20\_Nss1,(MCS0)\_1TX

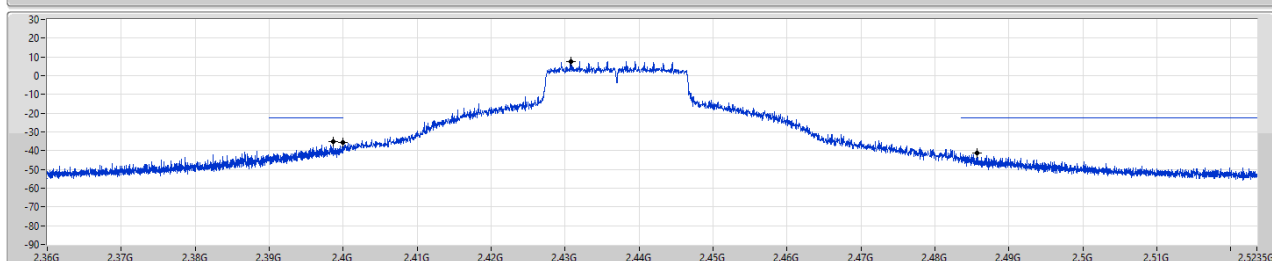
CSENdB

2437MHz

15/02/2022



Port 1



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 |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43073G | 7.62     | -22.38     | 2.18117G | -52.45     | 2.39866G | -35.20     | 2.4G     | -35.60     | 2.48568G | -41.20     | 7.69795G | -47.50     | 1    |

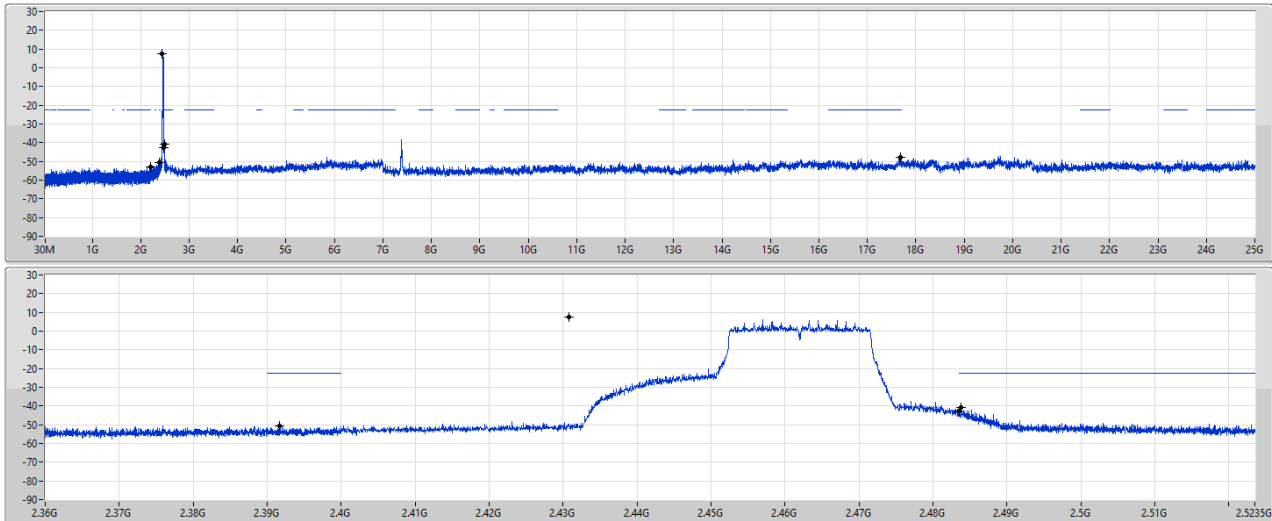
## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

2462MHz

CSENdB

15/02/2022

Port 1



| 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 |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.43073G | 7.62     | -22.38     | 2.19457G | -52.80     | 2.39168G | -50.61     | 2.4835G  | -42.68     | 2.48378G | -40.81     | 17.69233G | -47.69     | 1    |

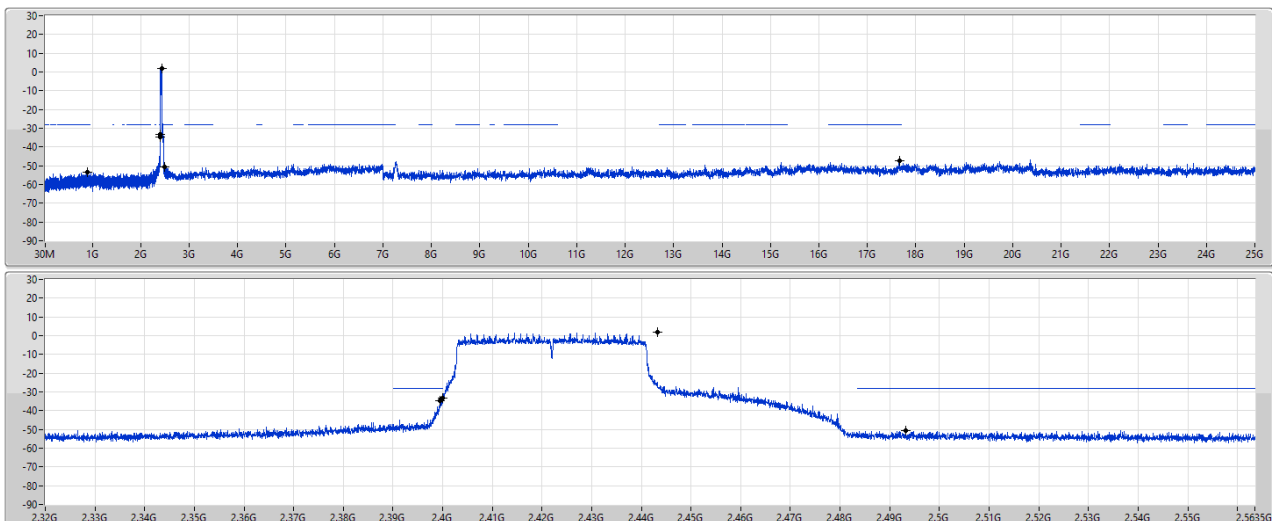
## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

2422MHz

CSENdB

15/02/2022

Port 1

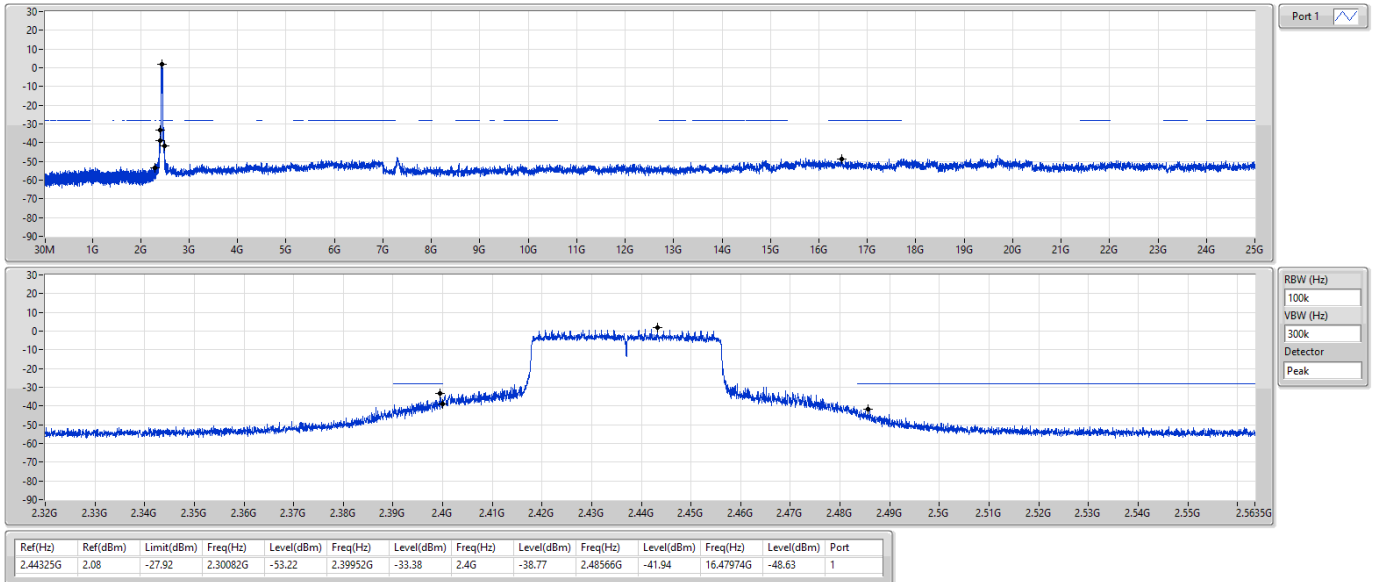


| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.44325G | 2.08     | -27.92     | 907.36M  | -53.43     | 2.39948G | -34.47     | 2.4G     | -33.35     | 2.49326G | -50.75     | 17.66326G | -47.51     | 1    |

802.11ax HEW40\_Nss1,(MCS0)\_1TX

CSENdB

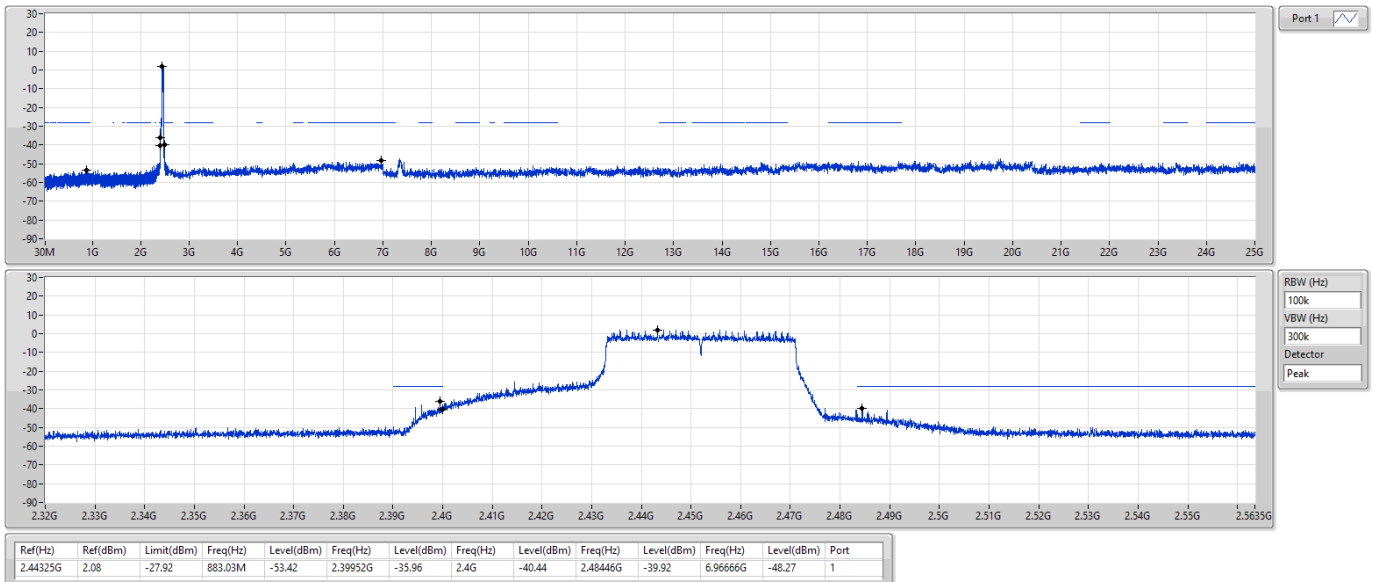
2437MHz



802.11ax HEW40\_Nss1,(MCS0)\_1TX

CSENdB

2452MHz



**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)_1TX       | Pass   | 2.43749G    | 12.75        | -17.25         | 2.30292G     | -52.25         | 2.39998G     | -29.08         | 2.4G         | -29.18         | 2.48814G     | -49.95         | 7.23514G     | -35.30         | 1    |
| 802.11g_Nss1(6Mbps)_1TX       | Pass   | 2.43824G    | 8.26         | -21.74         | 2.3035G      | -52.81         | 2.3998G      | -35.38         | 2.4G         | -36.54         | 2.49592G     | -50.52         | 7.23514G     | -41.49         | 1    |
| 802.11ax HEW20_Nss1(MCS0)_1TX | Pass   | 2.442G      | 7.45         | -22.55         | 2.30321G     | -52.49         | 2.3998G      | -34.12         | 2.4G         | -36.21         | 2.4908G      | -50.39         | 7.22952G     | -44.12         | 1    |
| 802.11ax HEW40_Nss1(MCS0)_1TX | Pass   | 2.42572G    | 1.75         | -28.25         | 2.30225G     | -53.05         | 2.39996G     | -33.77         | 2.4G         | -34.03         | 2.48966G     | -49.79         | 16.33671G    | -48.25         | 1    |

**Result**

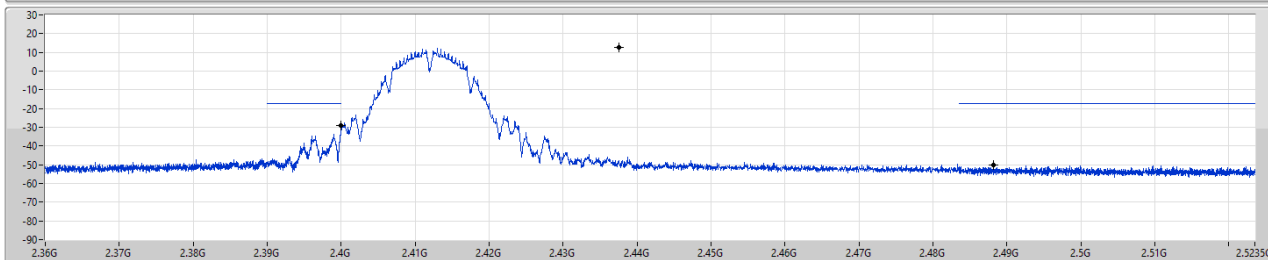
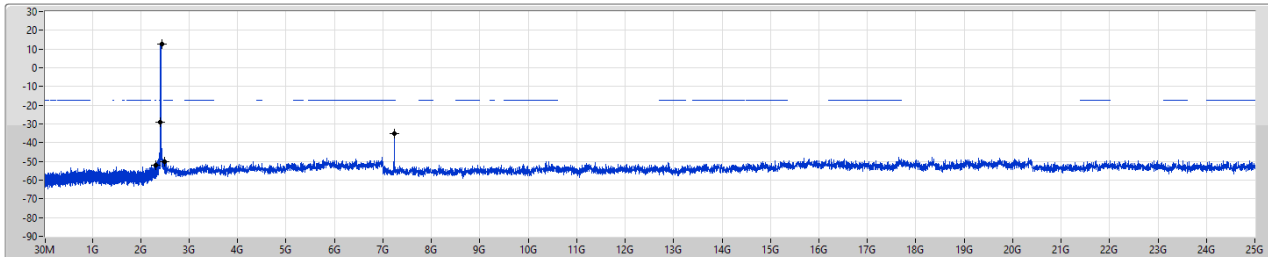
| Mode                           | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|--------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43749G    | 12.75        | -17.25         | 2.30292G     | -52.25         | 2.39998G     | -29.08         | 2.4G         | -29.18         | 2.48814G     | -49.95         | 7.23514G     | -35.30         | 1    |
| 2437MHz                        | Pass   | 2.43749G    | 12.75        | -17.25         | 2.19894G     | -52.32         | 2.39918G     | -47.68         | 2.4G         | -50.31         | 2.48352G     | -47.99         | 17.57714G    | -48.29         | 1    |
| 2462MHz                        | Pass   | 2.43749G    | 12.75        | -17.25         | 2.19748G     | -52.57         | 2.39098G     | -49.39         | 2.4835G      | -43.66         | 2.48352G     | -44.17         | 16.34093G    | -48.34         | 1    |
| 802.11g_Nss1,(6Mbps)_1TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43824G    | 8.26         | -21.74         | 2.3035G      | -52.81         | 2.3998G      | -35.38         | 2.4G         | -36.54         | 2.49592G     | -50.52         | 7.23514G     | -41.49         | 1    |
| 2437MHz                        | Pass   | 2.43824G    | 8.26         | -21.74         | 2.30758G     | -52.75         | 2.3998G      | -36.43         | 2.4G         | -38.84         | 2.48542G     | -42.01         | 15.25363G    | -48.09         | 1    |
| 2462MHz                        | Pass   | 2.43824G    | 8.26         | -21.74         | 1.96943G     | -53.41         | 2.39968G     | -50.98         | 2.4835G      | -46.46         | 2.4835G      | -44.74         | 6.40632G     | -48.38         | 1    |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.442G      | 7.45         | -22.55         | 2.30321G     | -52.49         | 2.3998G      | -34.12         | 2.4G         | -36.21         | 2.4908G      | -50.39         | 7.22952G     | -44.12         | 1    |
| 2437MHz                        | Pass   | 2.442G      | 7.45         | -22.55         | 635.22M      | -52.72         | 2.3974G      | -37.01         | 2.4G         | -38.88         | 2.4837G      | -41.44         | 5.92307G     | -48.38         | 1    |
| 2462MHz                        | Pass   | 2.442G      | 7.45         | -22.55         | 616M         | -52.97         | 2.39496G     | -50.71         | 2.4835G      | -47.54         | 2.48482G     | -45.58         | 6.93732G     | -47.59         | 1    |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2422MHz                        | Pass   | 2.42572G    | 1.75         | -28.25         | 2.30225G     | -53.05         | 2.39996G     | -33.77         | 2.4G         | -34.03         | 2.48966G     | -49.79         | 16.33671G    | -48.25         | 1    |
| 2437MHz                        | Pass   | 2.42572G    | 1.75         | -28.25         | 875.58M      | -52.59         | 2.39956G     | -36.39         | 2.4G         | -41.64         | 2.48454G     | -43.31         | 17.67168G    | -47.67         | 1    |
| 2452MHz                        | Pass   | 2.42572G    | 1.75         | -28.25         | 900.77M      | -52.73         | 2.39952G     | -37.38         | 2.4G         | -39.53         | 2.48946G     | -44.37         | 5.85886G     | -47.65         | 1    |

802.11b\_Nss1,(1Mbps)\_1TX

2412MHz

CSEndB

15/02/2022



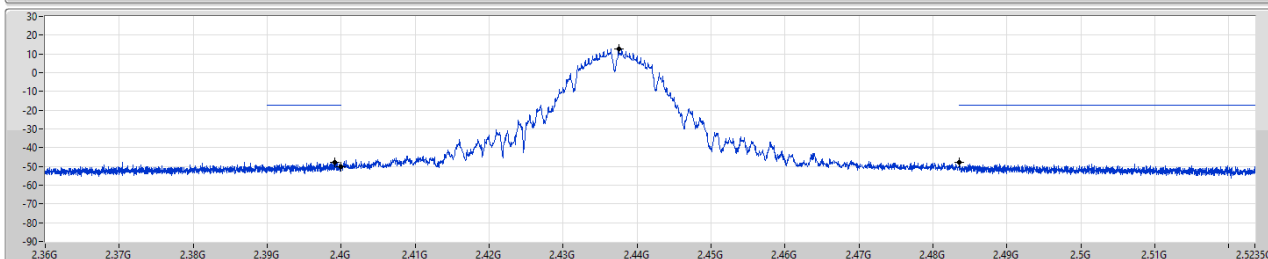
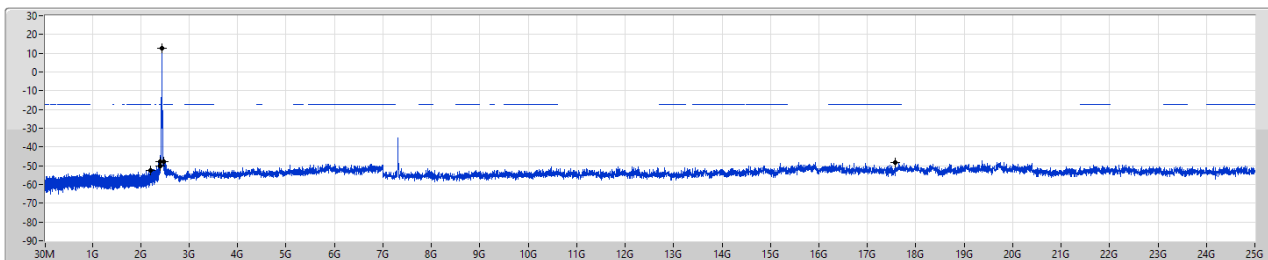
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43749G | 12.75    | -17.25     | 2.30292G | -52.25     | 2.39998G | -29.08     | 2.4G     | -29.18     | 2.48814G | -49.95     | 7.23514G | -35.30     | 1    |

802.11b\_Nss1,(1Mbps)\_1TX

2437MHz

CSEndB

15/02/2022



| 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 |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43749G | 12.75    | -17.25     | 2.19894G | -52.32     | 2.39918G | -47.68     | 2.4G     | -50.31     | 2.48352G | -47.99     | 7.57714G | -48.29     | 1    |

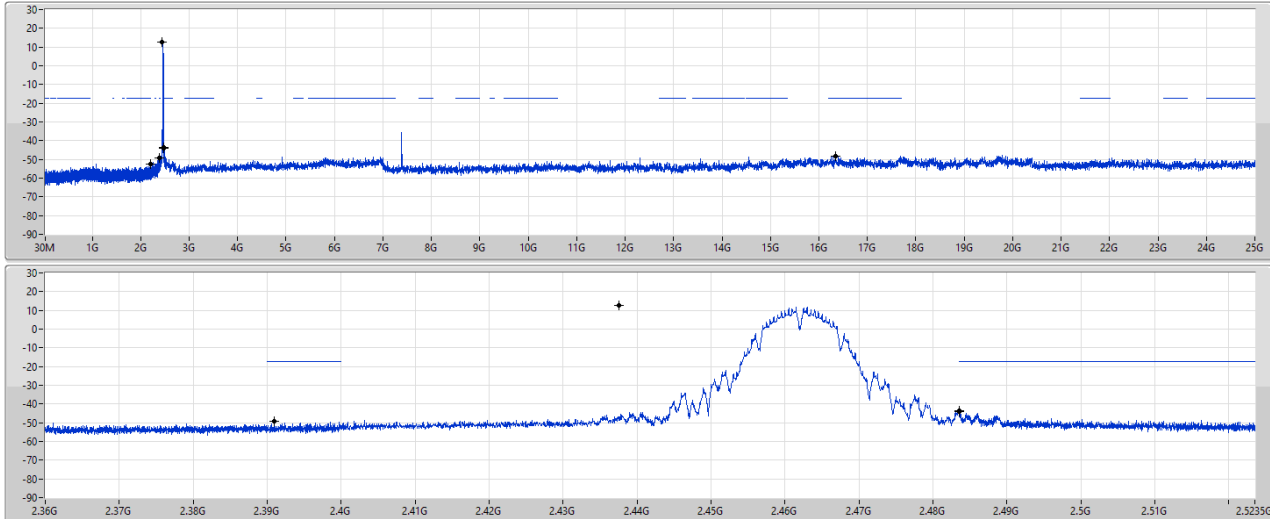
802.11b\_Nss1,(1Mbps)\_1TX

2462MHz

CSENdB

15/02/2022

Port 1



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 |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.43749G | 12.75    | -17.25     | 2.19748G | -52.57     | 2.39098G | -49.39     | 2.4835G  | -43.66     | 2.48352G | -44.17     | 16.34093G | -48.34     | 1    |

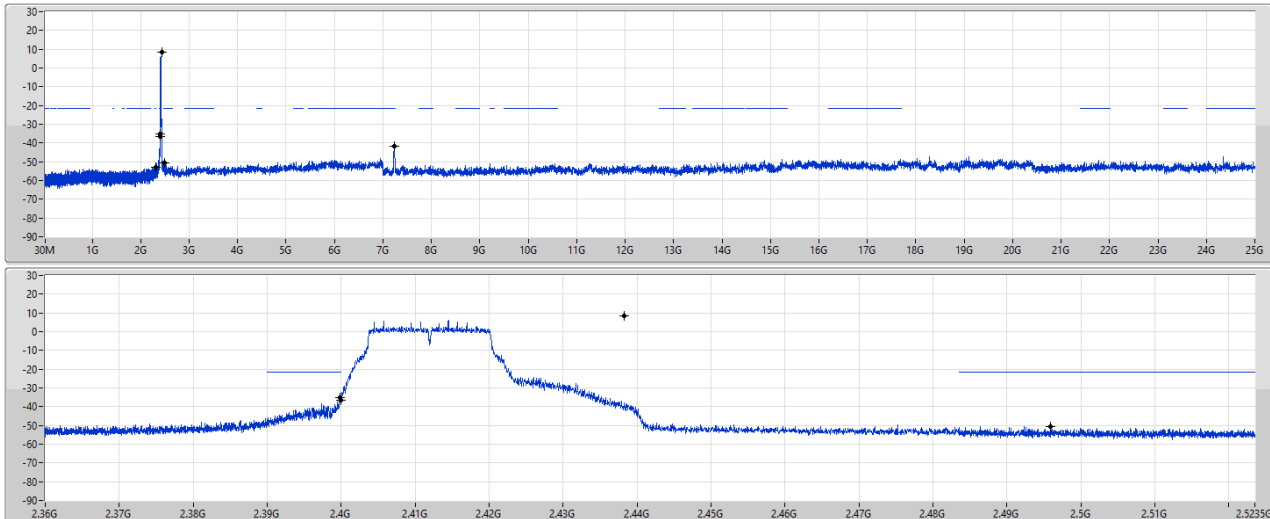
802.11g\_Nss1,(6Mbps)\_1TX

2412MHz

CSENdB

15/02/2022

Port 1



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

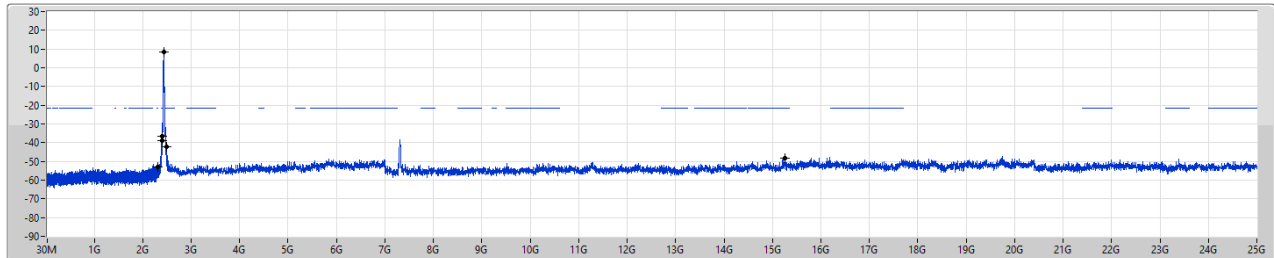
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43824G | 8.26     | -21.74     | 2.3035G  | -52.81     | 2.3998G  | -35.38     | 2.4G     | -36.54     | 2.49592G | -50.52     | 7.23514G | -41.49     | 1    |

802.11g\_Nss1,(6Mbps)\_1TX

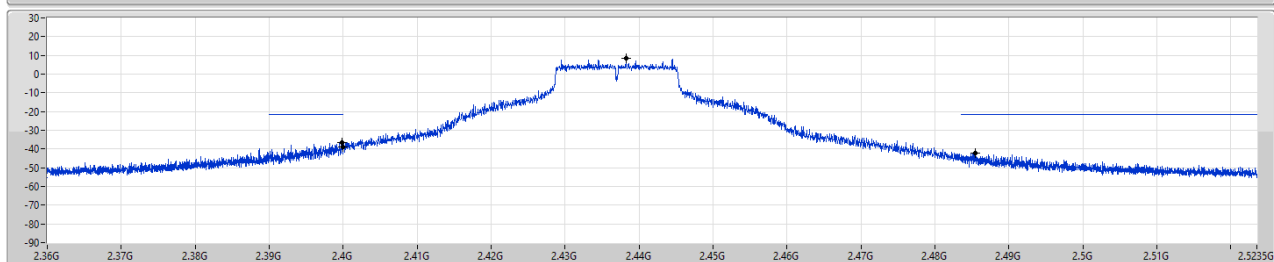
CSENdB

2437MHz

15/02/2022



Port 1



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

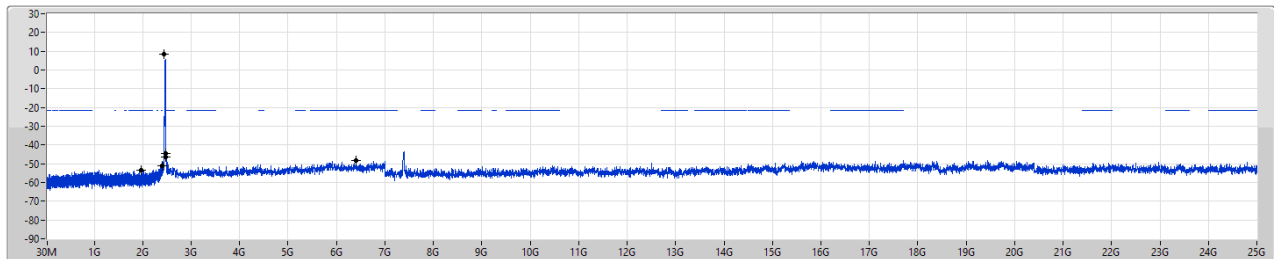
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.43824G | 8.26     | -21.74     | 2.30758G | -52.75     | 2.3998G  | -36.43     | 2.4G     | -38.84     | 2.48542G | -42.01     | 15.25363G | -48.09     | 1    |

802.11g\_Nss1,(6Mbps)\_1TX

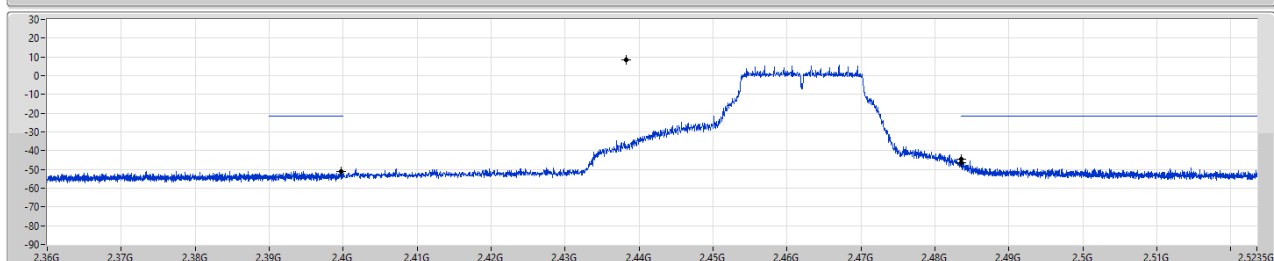
CSENdB

2462MHz

15/02/2022



Port 1



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 |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.43824G | 8.26     | -21.74     | 1.96943G | -53.41     | 2.39968G | -50.98     | 2.4835G  | -46.46     | 2.4835G  | -44.74     | 6.40632G | -48.38     | 1    |

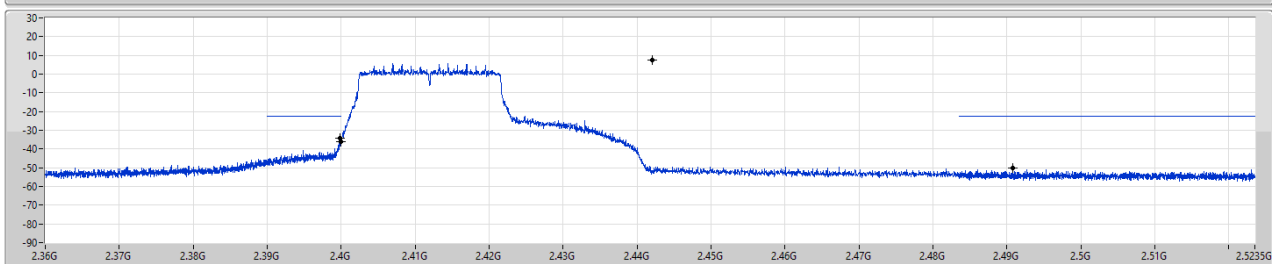
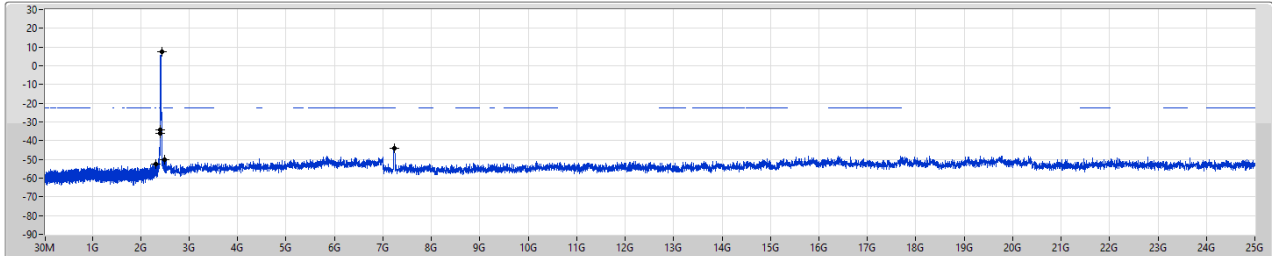
## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

2412MHz

CSENdB

15/02/2022

Port 1



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 |
|---------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.442G  | 7.45     | -22.55     | 2.30321G | -52.49     | 2.3998G  | -34.12     | 2.4G     | -36.21     | 2.4908G  | -50.39     | 7.22952G | -44.12     | 1    |

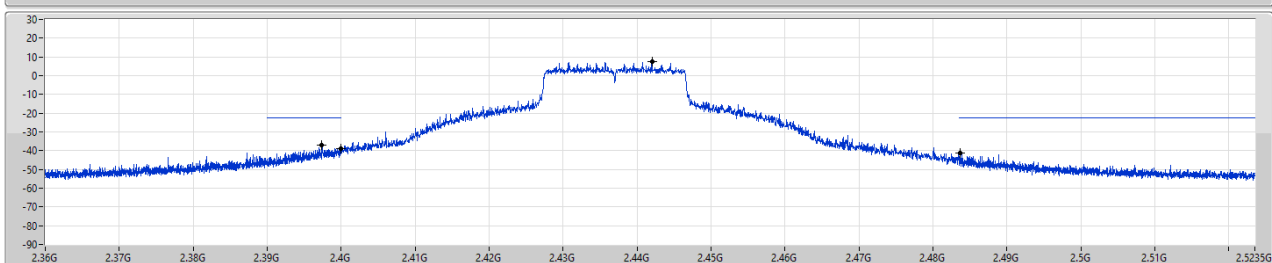
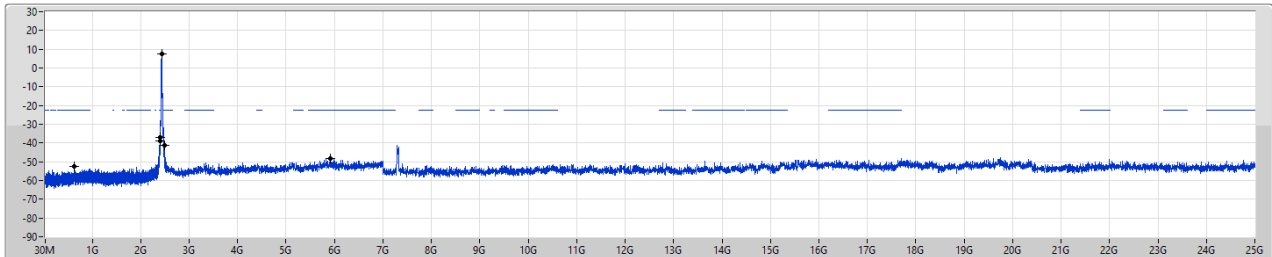
## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

2437MHz

CSENdB

15/02/2022

Port 1



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 |
|---------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.442G  | 7.45     | -22.55     | 635.22M  | -52.72     | 2.3974G  | -37.01     | 2.4G     | -38.88     | 2.4837G  | -41.44     | 5.92307G | -48.38     | 1    |

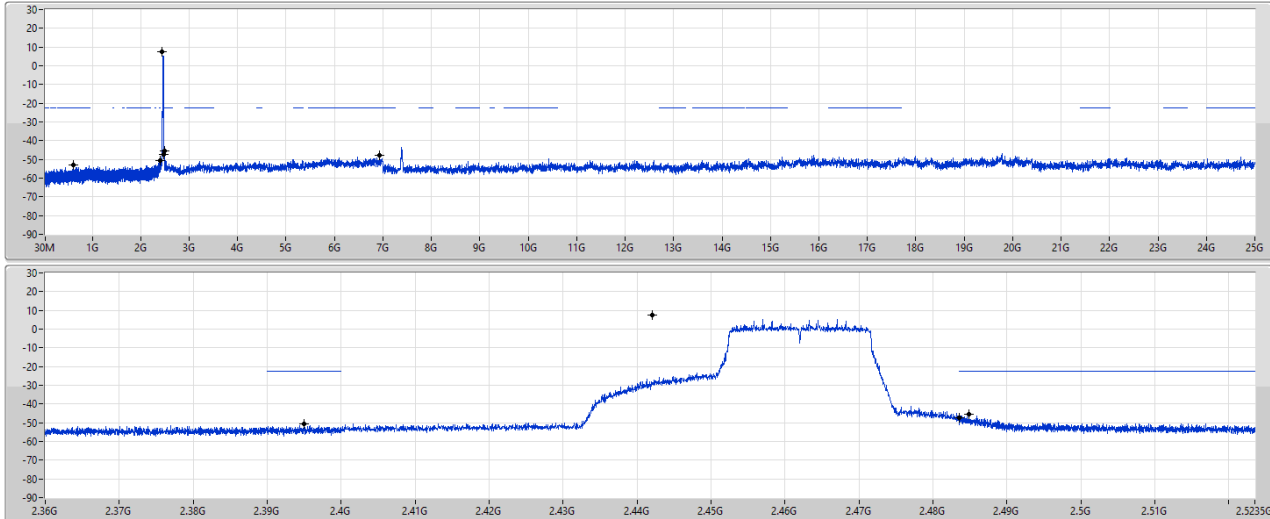
## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

2462MHz

CSENdB

15/02/2022

Port 1



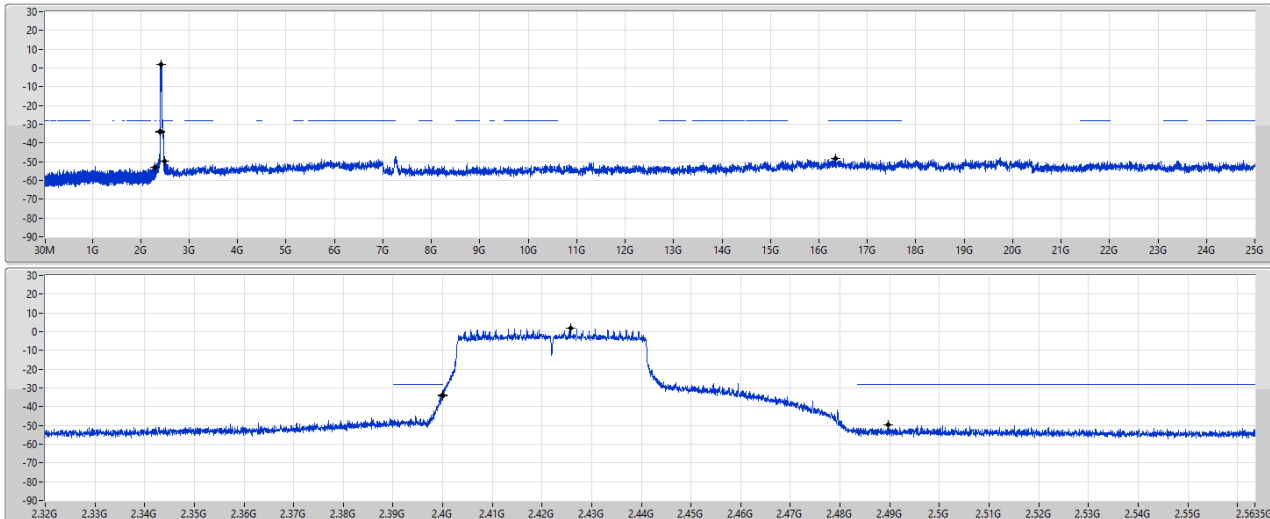
## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

2422MHz

CSENdB

15/02/2022

Port 1



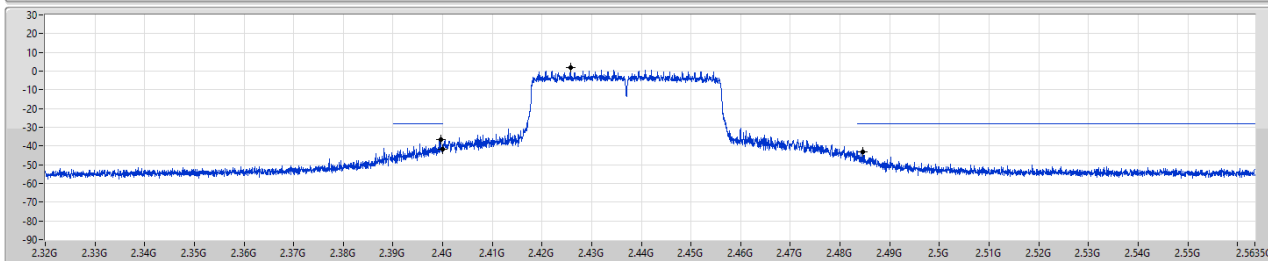
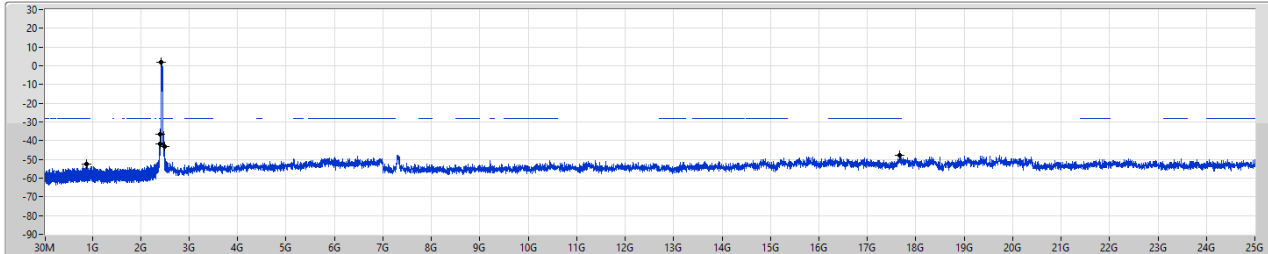
802.11ax HEW40\_Nss1,(MCS0)\_1TX

CSENdB

2437MHz

15/02/2022

Port 1



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 |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.42572G | 1.75     | -28.25     | 875.58M  | -52.59     | 2.39956G | -36.39     | 2.4G     | -41.64     | 2.48454G | -43.31     | 17.67168G | -47.67     | 1    |

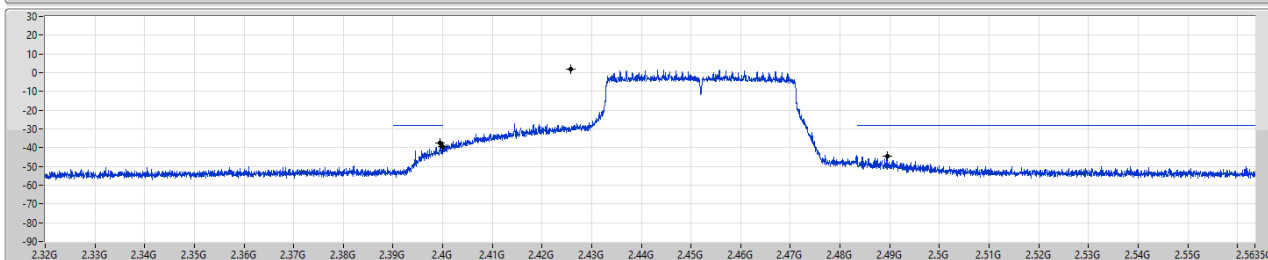
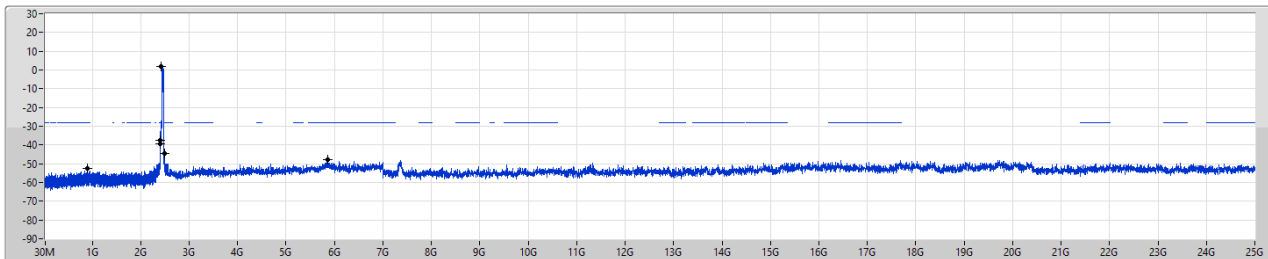
802.11ax HEW40\_Nss1,(MCS0)\_1TX

CSENdB

2452MHz

15/02/2022

Port 1



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 |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.42572G | 1.75     | -28.25     | 900.77M  | -52.73     | 2.39952G | -37.38     | 2.4G     | -39.53     | 2.48946G | -44.37     | 5.85886G | -47.65     | 1    |



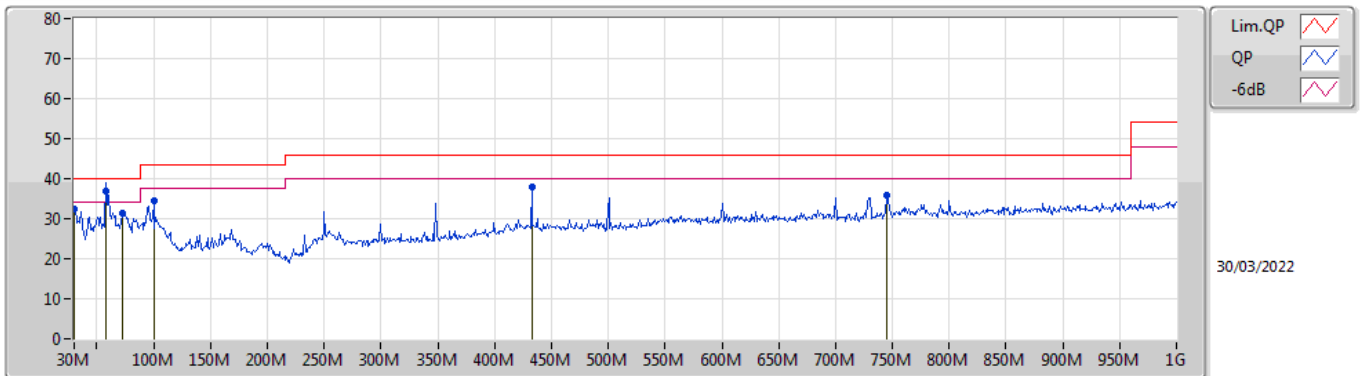
## ***Radiated Emissions below 1GHz***

## ***Appendix F.1***

### **Summary**

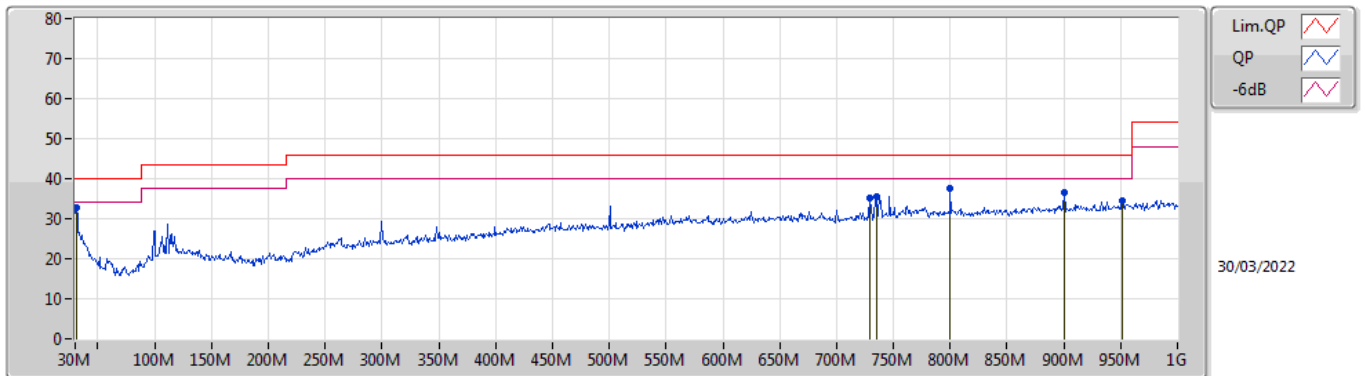
| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-------------------|-------------------|----------------|-----------|
| Mode 1 | Pass   | QP   | 58.13M       | 36.74             | 40.00             | -3.26          | Vertical  |

### 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) |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|-----------|----------------|---------------|---------|-----------------|--------------|------------|------------|
| PK   | 30M          | 32.26             | 40.00             | -7.74          | -2.07            | 3           | Vertical  | 115            | 2.00          | -       | 34.33           | 25.20        | 1.20       | 28.47      |
| QP   | 58.13M       | 36.74             | 40.00             | -3.26          | -14.76           | 3           | Vertical  | 360            | 1.00          | "Worst" | 51.50           | 12.31        | 1.43       | 28.50      |
| PK   | 72.68M       | 31.47             | 40.00             | -8.53          | -14.60           | 3           | Vertical  | 175            | 1.25          | -       | 46.07           | 12.49        | 1.45       | 28.54      |
| PK   | 99.84M       | 34.49             | 43.50             | -9.01          | -10.45           | 3           | Vertical  | 148            | 1.00          | -       | 44.94           | 16.38        | 1.60       | 28.43      |
| PK   | 432.55M      | 37.92             | 46.00             | -8.08          | -3.53            | 3           | Vertical  | 33             | 2.00          | -       | 41.45           | 22.32        | 2.93       | 28.78      |
| PK   | 744.89M      | 35.81             | 46.00             | -10.19         | 0.26             | 3           | Vertical  | 265            | 1.50          | -       | 35.55           | 25.60        | 3.69       | 29.03      |

### 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) |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|------------|----------------|---------------|---------|-----------------|--------------|------------|------------|
| PK   | 30.97M       | 32.59             | 40.00             | -7.41          | -2.75            | 3           | Horizontal | 146            | 3.00          | "Worst" | 35.34           | 24.50        | 1.22       | 28.47      |
| PK   | 729.37M      | 35.10             | 46.00             | -10.90         | -0.21            | 3           | Horizontal | 24             | 1.00          | -       | 35.31           | 25.21        | 3.66       | 29.08      |
| PK   | 735.19M      | 35.41             | 46.00             | -10.59         | -0.01            | 3           | Horizontal | 0              | 1.25          | -       | 35.42           | 25.38        | 3.67       | 29.06      |
| PK   | 800.18M      | 37.62             | 46.00             | -8.38          | 0.61             | 3           | Horizontal | 242            | 1.25          | -       | 37.01           | 25.85        | 3.80       | 29.04      |
| PK   | 900.09M      | 36.70             | 46.00             | -9.30          | 1.75             | 3           | Horizontal | 193            | 1.50          | -       | 34.95           | 26.39        | 4.00       | 28.64      |
| PK   | 951.5M       | 34.39             | 46.00             | -11.61         | 2.27             | 3           | Horizontal | 347            | 1.50          | -       | 32.12           | 26.74        | 4.10       | 28.57      |

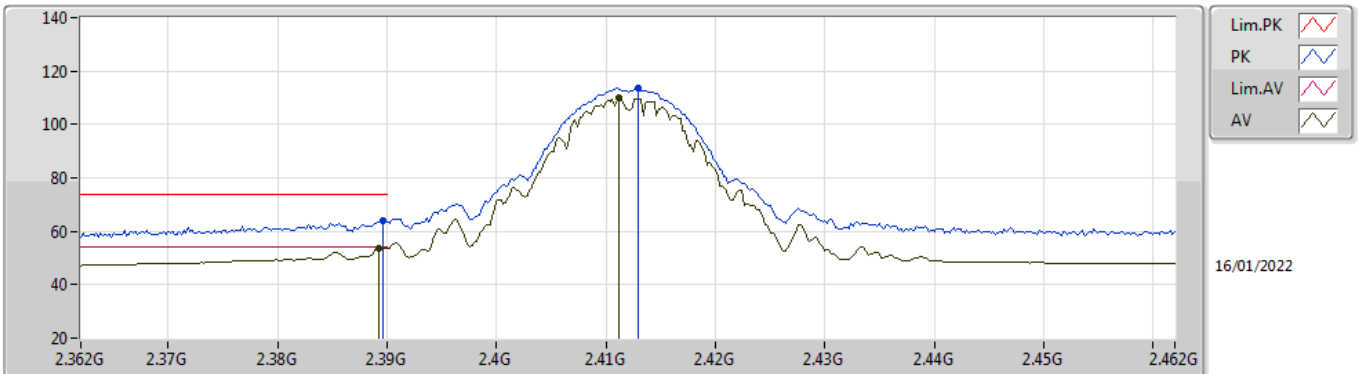


**Summary**

| 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)_1TX | Pass   | AV   | 2.39G        | 53.90             | 54.00             | -0.10          | 3           | Vertical  | 171            | 1.84          | -        |

# 802.11b\_Nss1,(1Mbps)\_1TX

## 2412MHz\_TX

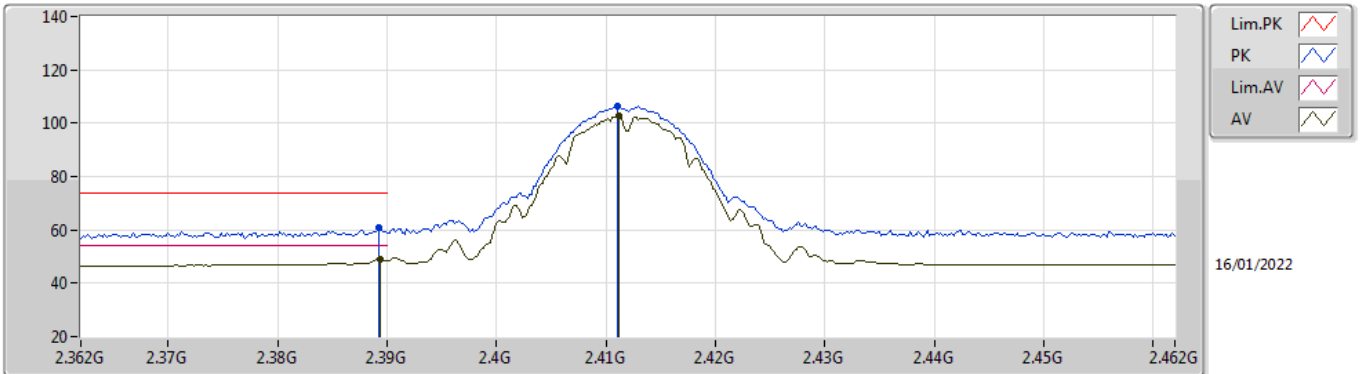


EUT V\_1TX  
Setting 81  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3896G      | 64.21             | 74.00             | -9.79          | 33.04         | 3           | Vertical  | 171            | 2.57          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3892G      | 53.83             | 54.00             | -0.17          | 22.66         | 3           | Vertical  | 171            | 2.57          | -       | 28.38      | 2.79       | -          |
| PK   | 2.413G       | 113.72            | Inf               | -Inf           | 82.51         | 3           | Vertical  | 171            | 2.57          | -       | 28.40      | 2.81       | -          |
| AV   | 2.4112G      | 109.75            | Inf               | -Inf           | 78.54         | 3           | Vertical  | 171            | 2.57          | -       | 28.40      | 2.81       | -          |

# 802.11b\_Nss1,(1Mbps)\_1TX

## 2412MHz\_TX

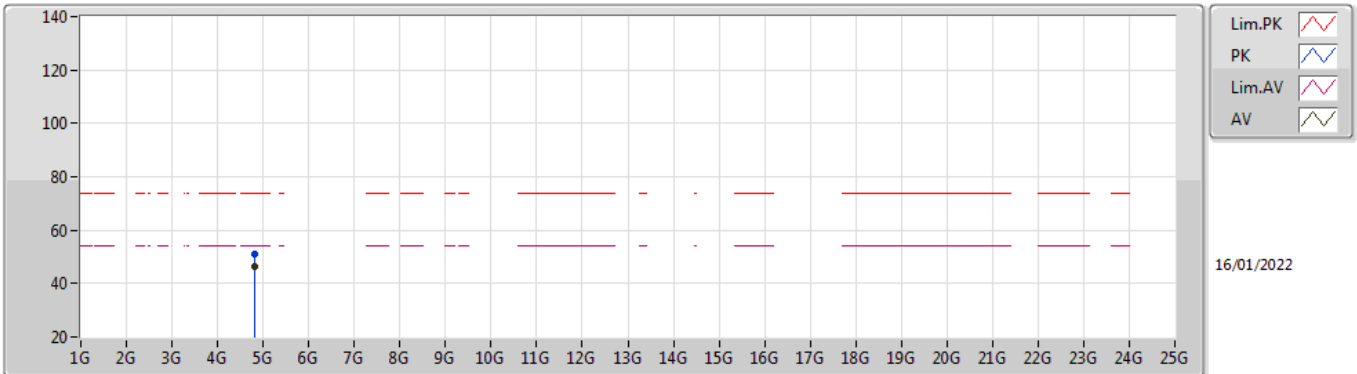


EUT V\_1TX  
Setting 81  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3892G      | 60.68             | 74.00             | -13.32         | 29.51         | 3           | Horizontal | 298            | 2.84          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.3894G      | 48.92             | 54.00             | -5.08          | 17.75         | 3           | Horizontal | 298            | 2.84          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.411G       | 106.20            | Inf               | -Inf           | 74.99         | 3           | Horizontal | 298            | 2.84          | -       | 28.40      | 2.81       | -          |  |
| AV   | 2.4112G      | 102.64            | Inf               | -Inf           | 71.43         | 3           | Horizontal | 298            | 2.84          | -       | 28.40      | 2.81       | -          |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

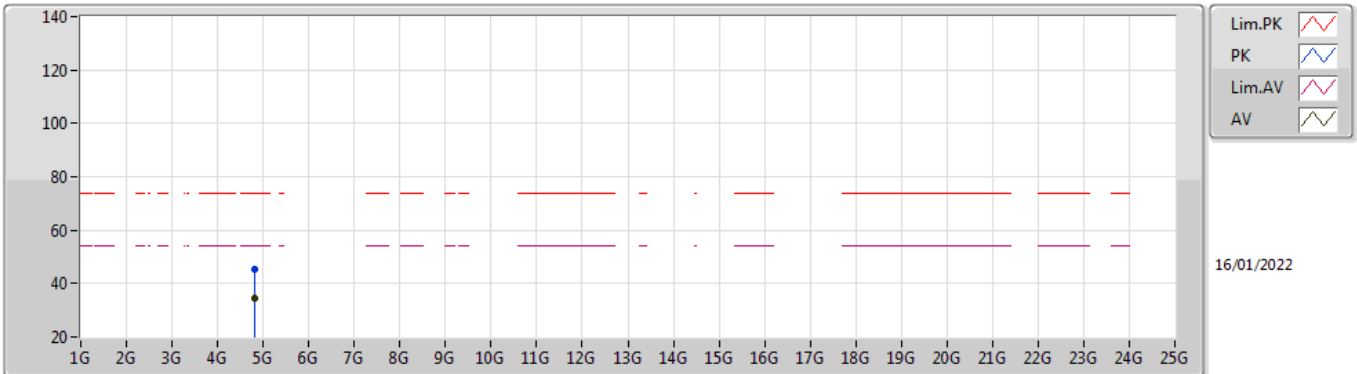


EUT Y\_1TX  
Setting 81  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.82396G     | 50.88             | 74.00             | -23.12         | 45.20         | 3           | Vertical  | 197            | 2.02          | -       | 32.80      | 5.10       | 32.22      |  |
| AV   | 4.82396G     | 46.50             | 54.00             | -7.50          | 40.82         | 3           | Vertical  | 197            | 2.02          | -       | 32.80      | 5.10       | 32.22      |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

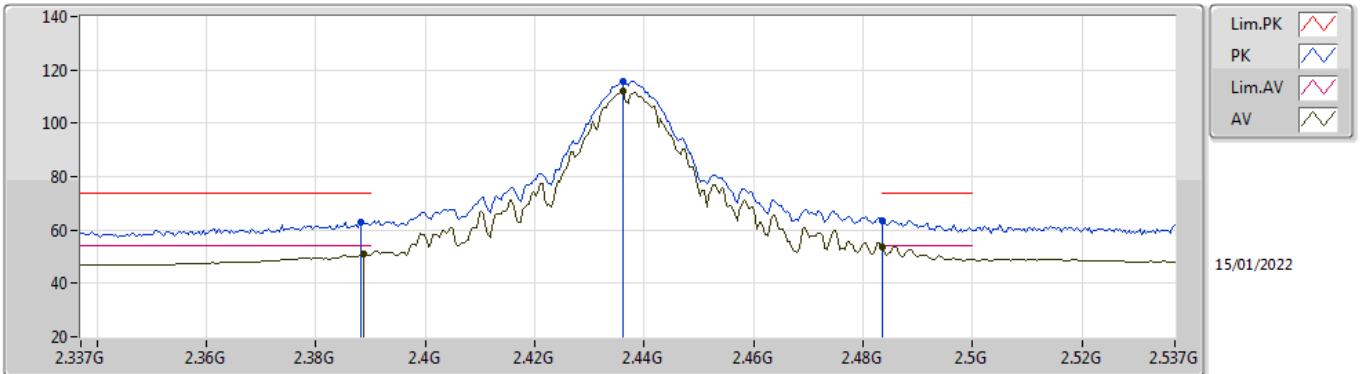


EUT V\_1TX  
Setting 81  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.82368G     | 45.41             | 74.00             | -28.59         | 39.74         | 3           | Horizontal | 223            | 2.21          | -       | 32.79      | 5.10       | 32.22      |
| AV   | 4.82392G     | 34.37             | 54.00             | -19.63         | 28.69         | 3           | Horizontal | 223            | 2.21          | -       | 32.80      | 5.10       | 32.22      |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

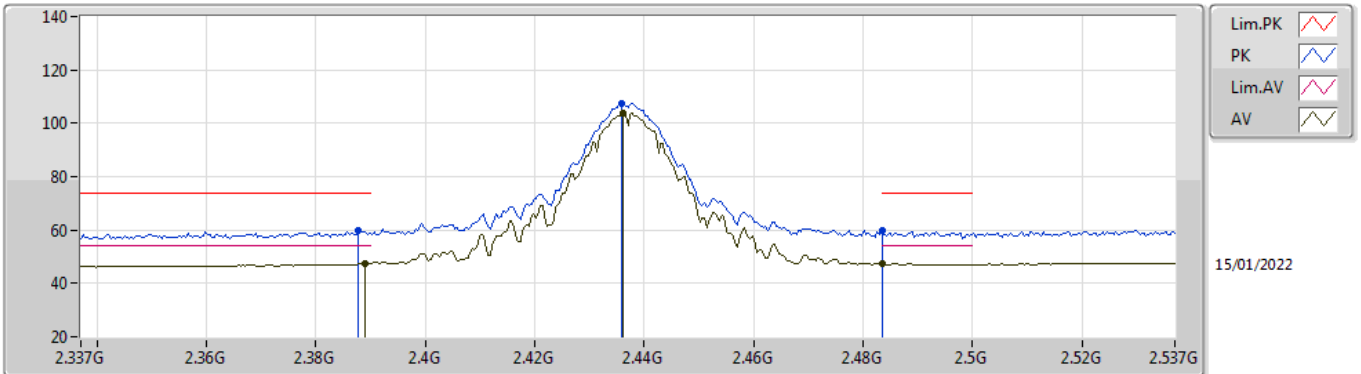


EUT\_V\_1TX  
Setting 89  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3882G      | 63.11             | 74.00             | -10.89         | 31.94         | 3           | Vertical  | 24             | 2.24          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.3886G      | 51.22             | 54.00             | -2.78          | 20.05         | 3           | Vertical  | 24             | 2.24          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.4362G      | 115.83            | Inf               | -Inf           | 84.59         | 3           | Vertical  | 24             | 2.24          | -       | 28.40      | 2.84       | -          |  |
| AV   | 2.4362G      | 112.19            | Inf               | -Inf           | 80.95         | 3           | Vertical  | 24             | 2.24          | -       | 28.40      | 2.84       | -          |  |
| PK   | 2.4835G      | 63.59             | 74.00             | -10.41         | 32.18         | 3           | Vertical  | 24             | 2.24          | -       | 28.53      | 2.88       | -          |  |
| AV   | 2.4835G      | 53.83             | 54.00             | -0.17          | 22.42         | 3           | Vertical  | 24             | 2.24          | -       | 28.53      | 2.88       | -          |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

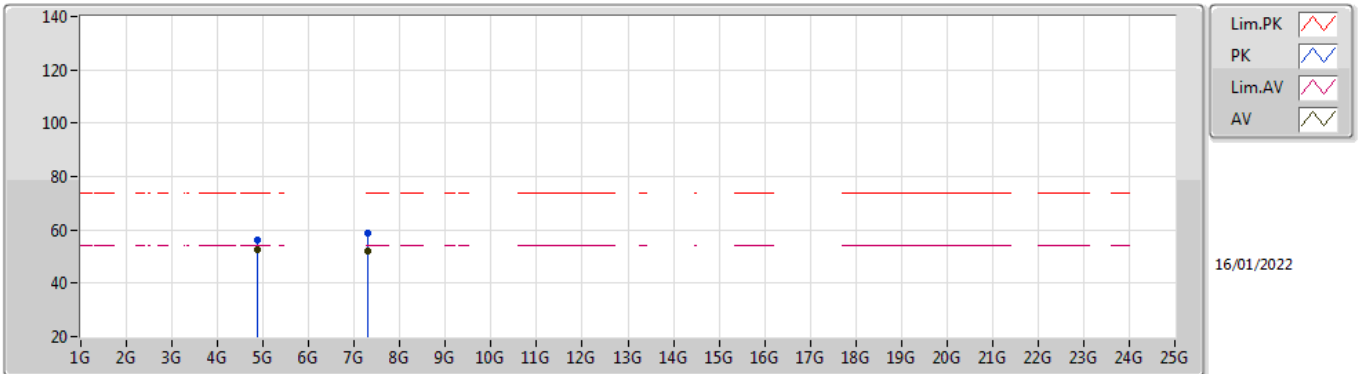


EUT\_V\_1TX  
Setting 89  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3878G      | 59.62             | 74.00             | -14.38         | 28.45         | 3           | Horizontal | 270            | 2.57          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.389G       | 47.43             | 54.00             | -6.57          | 16.26         | 3           | Horizontal | 270            | 2.57          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.4358G      | 107.59            | Inf               | -Inf           | 76.35         | 3           | Horizontal | 270            | 2.57          | -       | 28.40      | 2.84       | -          |  |
| AV   | 2.4362G      | 104.01            | Inf               | -Inf           | 72.77         | 3           | Horizontal | 270            | 2.57          | -       | 28.40      | 2.84       | -          |  |
| PK   | 2.4835G      | 60.06             | 74.00             | -13.94         | 28.65         | 3           | Horizontal | 270            | 2.57          | -       | 28.53      | 2.88       | -          |  |
| AV   | 2.4835G      | 47.45             | 54.00             | -6.55          | 16.04         | 3           | Horizontal | 270            | 2.57          | -       | 28.53      | 2.88       | -          |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

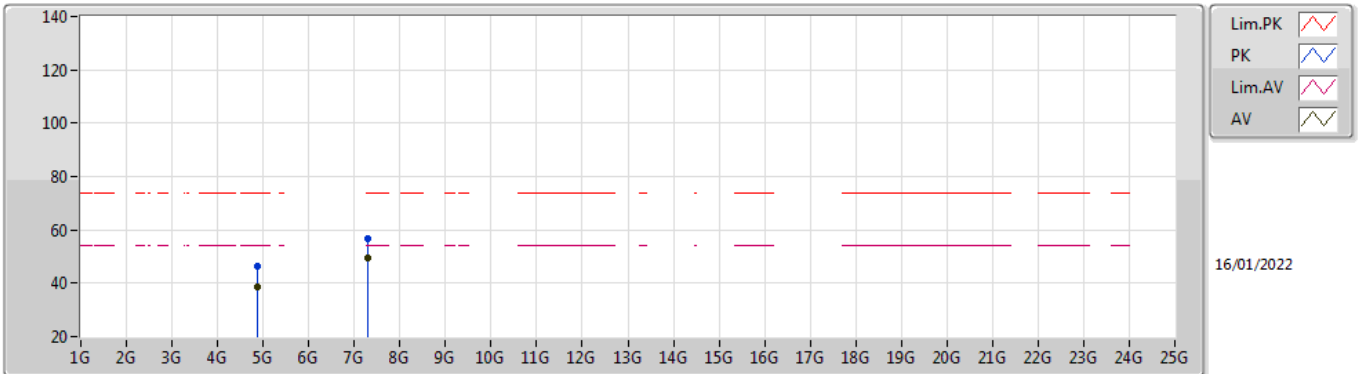


EUT Y\_1TX  
Setting 89  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.87392G     | 56.05             | 74.00             | -17.95         | 50.21         | 3           | Vertical  | 211            | 1.98          | -       | 32.95      | 5.10       | 32.21      |
| AV   | 4.874G       | 52.49             | 54.00             | -1.51          | 46.65         | 3           | Vertical  | 211            | 1.98          | -       | 32.95      | 5.10       | 32.21      |
| PK   | 7.31G        | 58.58             | 74.00             | -15.42         | 48.83         | 3           | Vertical  | 202            | 1.80          | -       | 36.42      | 6.15       | 32.82      |
| AV   | 7.30976G     | 52.27             | 54.00             | -1.73          | 42.52         | 3           | Vertical  | 202            | 1.80          | -       | 36.42      | 6.15       | 32.82      |

# 802.11b\_Nss1,(1Mbps)\_1TX

## 2437MHz\_TX

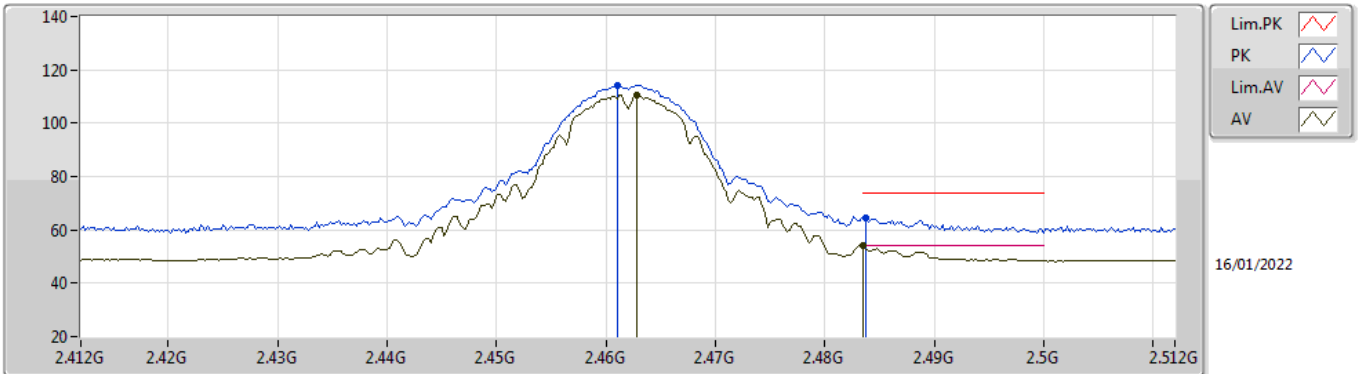


EUT V\_1TX  
Setting 89  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.874G       | 46.55             | 74.00             | -27.45         | 40.71         | 3           | Horizontal | 178            | 1.74          | -       | 32.95      | 5.10       | 32.21      |
| AV   | 4.87396G     | 38.67             | 54.00             | -15.33         | 32.83         | 3           | Horizontal | 178            | 1.74          | -       | 32.95      | 5.10       | 32.21      |
| PK   | 7.30992G     | 56.95             | 74.00             | -17.05         | 47.20         | 3           | Horizontal | 214            | 1.80          | -       | 36.42      | 6.15       | 32.82      |
| AV   | 7.30972G     | 49.59             | 54.00             | -4.41          | 39.84         | 3           | Horizontal | 214            | 1.80          | -       | 36.42      | 6.15       | 32.82      |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

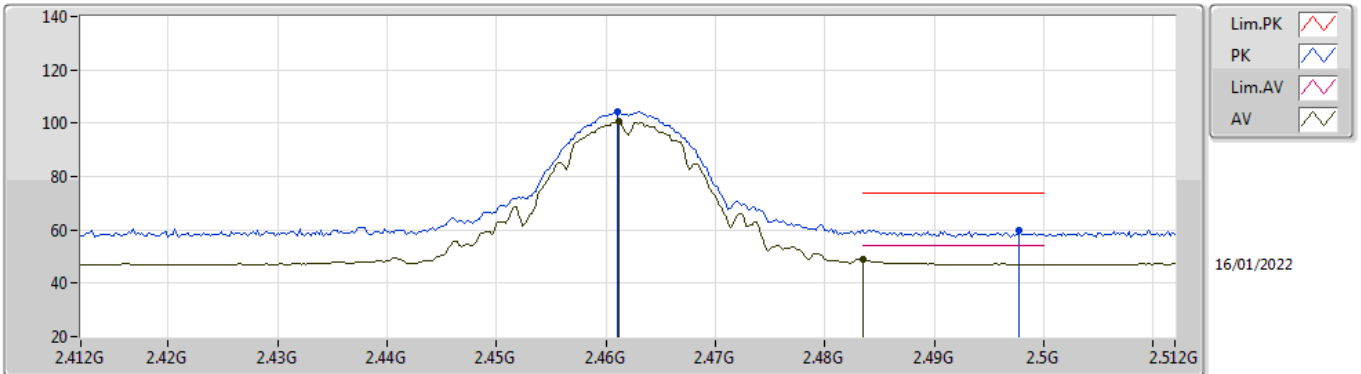


EUT Y\_1TX  
Setting 80  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.461G       | 114.25            | Inf               | -Inf           | 82.95         | 3           | Vertical  | 202            | 2.48          | -       | 28.44      | 2.86       | -          |  |
| AV   | 2.4628G      | 110.45            | Inf               | -Inf           | 79.14         | 3           | Vertical  | 202            | 2.48          | -       | 28.45      | 2.86       | -          |  |
| PK   | 2.4838G      | 64.62             | 74.00             | -9.38          | 33.20         | 3           | Vertical  | 202            | 2.48          | -       | 28.54      | 2.88       | -          |  |
| AV   | 2.4835G      | 53.88             | 54.00             | -0.12          | 22.47         | 3           | Vertical  | 202            | 2.48          | -       | 28.53      | 2.88       | -          |  |

# 802.11b\_Nss1,(1Mbps)\_1TX

## 2462MHz\_TX

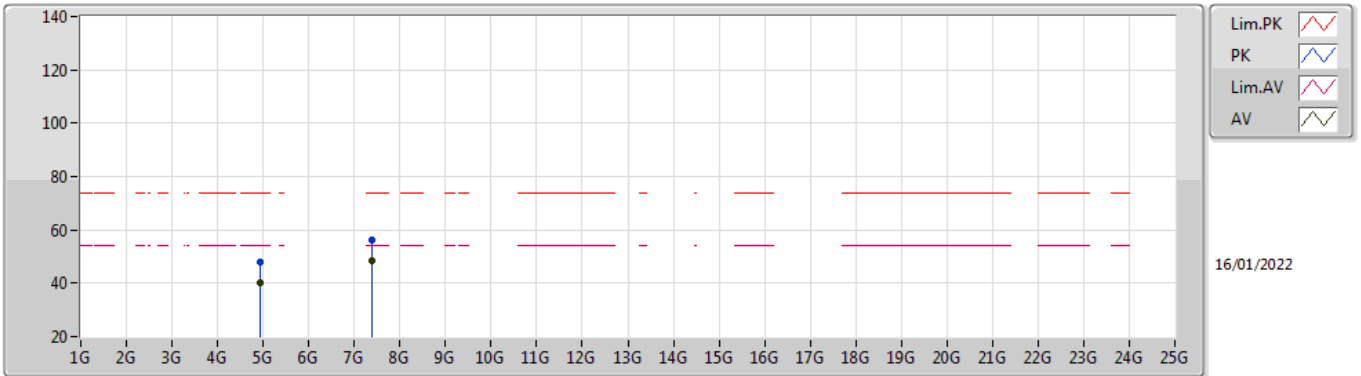


EUT\_V\_1TX  
Setting 80  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.461G       | 104.30            | Inf               | -Inf           | 73.00         | 3           | Horizontal | 311            | 2.76          | -       | 28.44      | 2.86       | -          |
| AV   | 2.4612G      | 100.56            | Inf               | -Inf           | 69.26         | 3           | Horizontal | 311            | 2.76          | -       | 28.44      | 2.86       | -          |
| PK   | 2.4978G      | 59.87             | 74.00             | -14.13         | 28.38         | 3           | Horizontal | 311            | 2.76          | -       | 28.59      | 2.90       | -          |
| AV   | 2.4835G      | 49.03             | 54.00             | -4.97          | 17.62         | 3           | Horizontal | 311            | 2.76          | -       | 28.53      | 2.88       | -          |

# 802.11b\_Nss1,(1Mbps)\_1TX

## 2462MHz\_TX

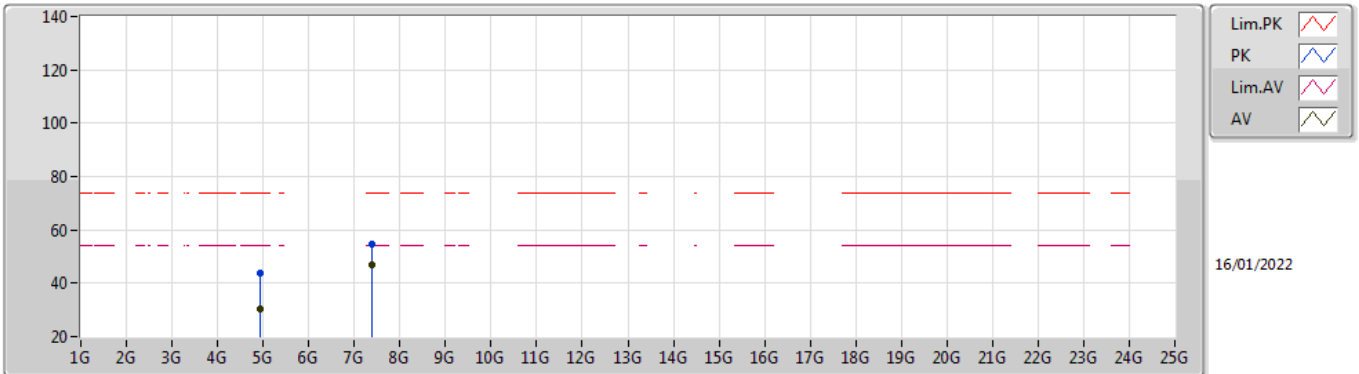


EUT V\_1TX  
Setting 80  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.92404G     | 47.75             | 74.00             | -26.25         | 41.70         | 3           | Vertical  | 199            | 1.86          | -       | 33.14      | 5.10       | 32.19      |  |
| AV   | 4.92396G     | 40.41             | 54.00             | -13.59         | 34.36         | 3           | Vertical  | 199            | 1.86          | -       | 33.14      | 5.10       | 32.19      |  |
| PK   | 7.38496G     | 56.30             | 74.00             | -17.70         | 46.49         | 3           | Vertical  | 201            | 1.84          | -       | 36.57      | 6.19       | 32.95      |  |
| AV   | 7.38472G     | 48.68             | 54.00             | -5.32          | 38.87         | 3           | Vertical  | 201            | 1.84          | -       | 36.57      | 6.19       | 32.95      |  |

# 802.11b\_Nss1,(1Mbps)\_1TX

## 2462MHz\_TX

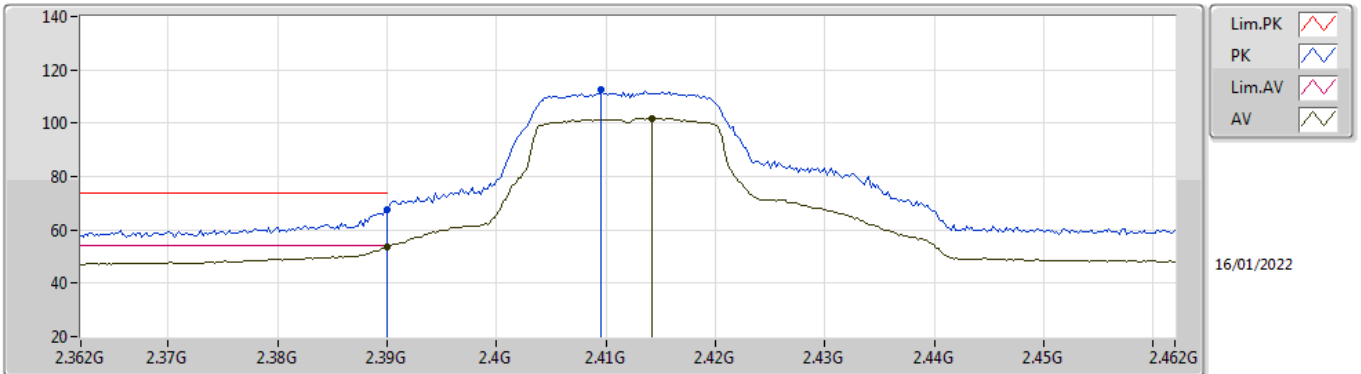


EUT Y\_1TX  
Setting 80  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.9292G      | 43.85             | 74.00             | -30.15         | 37.76         | 3           | Horizontal | 179            | 1.80          | -       | 33.18      | 5.10       | 32.19      |
| AV   | 4.92404G     | 30.12             | 54.00             | -23.88         | 24.07         | 3           | Horizontal | 179            | 1.80          | -       | 33.14      | 5.10       | 32.19      |
| PK   | 7.38456G     | 54.88             | 74.00             | -19.12         | 45.07         | 3           | Horizontal | 220            | 1.89          | -       | 36.57      | 6.19       | 32.95      |
| AV   | 7.38472G     | 46.82             | 54.00             | -7.18          | 37.01         | 3           | Horizontal | 220            | 1.89          | -       | 36.57      | 6.19       | 32.95      |

# 802.11g\_Nss1,(6Mbps)\_1TX

## 2412MHz\_TX

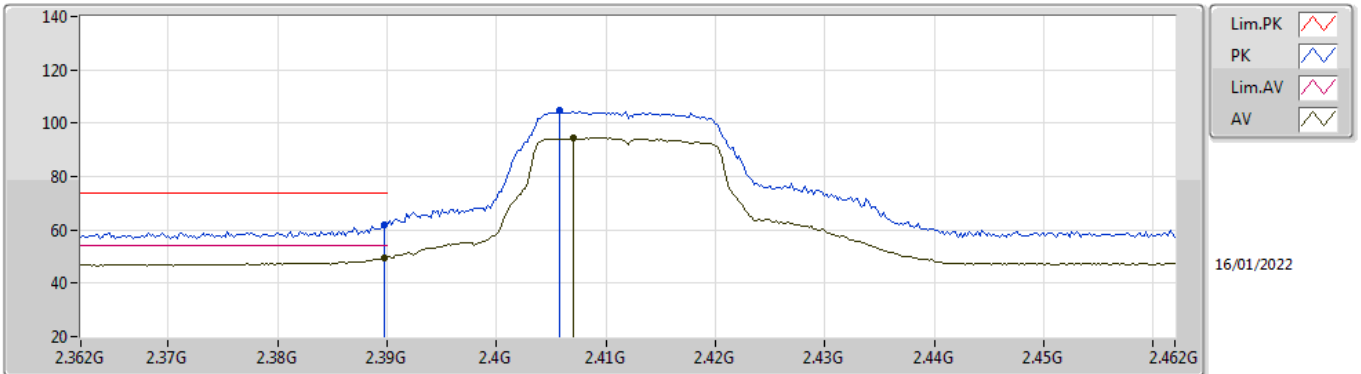


EUT Y\_1TX  
Setting 73  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.39G        | 67.36             | 74.00             | -6.64          | 36.19         | 3           | Vertical  | 172            | 1.82          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.39G        | 53.82             | 54.00             | -0.18          | 22.65         | 3           | Vertical  | 172            | 1.82          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.4096G      | 112.34            | Inf               | -Inf           | 81.13         | 3           | Vertical  | 172            | 1.82          | -       | 28.40      | 2.81       | -          |  |
| AV   | 2.4142G      | 101.97            | Inf               | -Inf           | 70.76         | 3           | Vertical  | 172            | 1.82          | -       | 28.40      | 2.81       | -          |  |

# 802.11g\_Nss1,(6Mbps)\_1TX

## 2412MHz\_TX

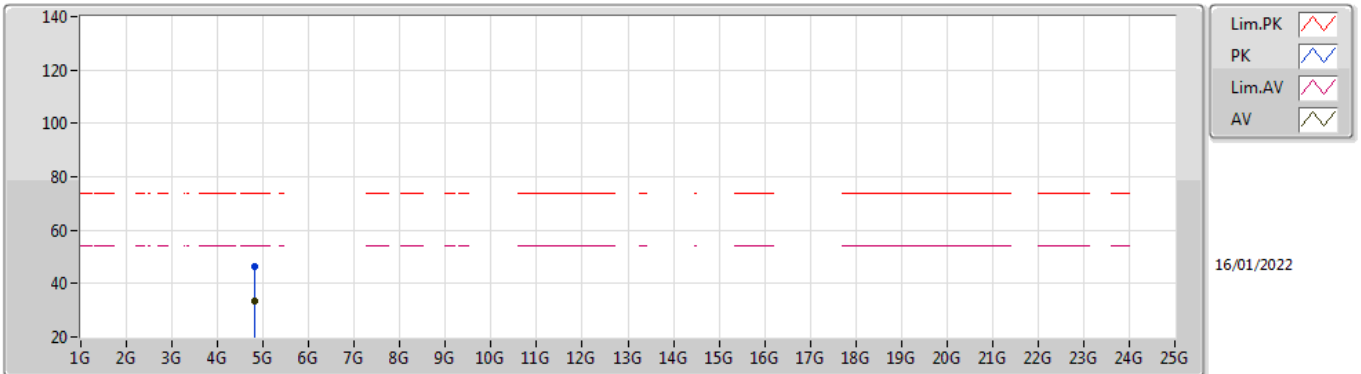


EUT V\_1TX  
Setting 73  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3898G      | 62.06             | 74.00             | -11.94         | 30.89         | 3           | Horizontal | 297            | 2.84          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3898G      | 49.55             | 54.00             | -4.45          | 18.38         | 3           | Horizontal | 297            | 2.84          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4058G      | 104.64            | Inf               | -Inf           | 73.43         | 3           | Horizontal | 297            | 2.84          | -       | 28.40      | 2.81       | -          |
| AV   | 2.407G       | 94.44             | Inf               | -Inf           | 63.23         | 3           | Horizontal | 297            | 2.84          | -       | 28.40      | 2.81       | -          |

# 802.11g\_Nss1,(6Mbps)\_1TX

## 2412MHz\_TX

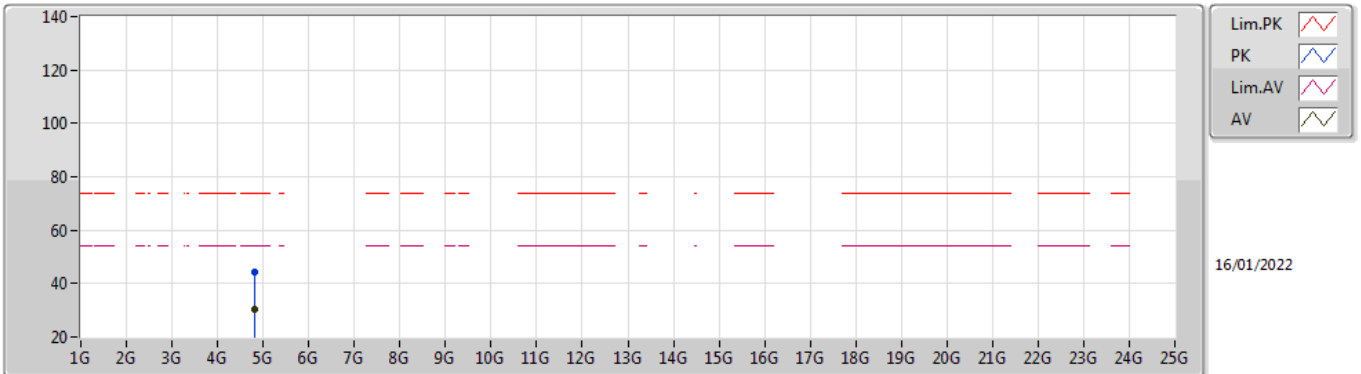


EUT Y\_1TX  
Setting 73  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.823G       | 46.61             | 74.00             | -27.39         | 40.94         | 3           | Vertical  | 207            | 2.05          | -       | 32.79      | 5.10       | 32.22      |
| AV   | 4.824G       | 33.30             | 54.00             | -20.70         | 27.62         | 3           | Vertical  | 207            | 2.05          | -       | 32.80      | 5.10       | 32.22      |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

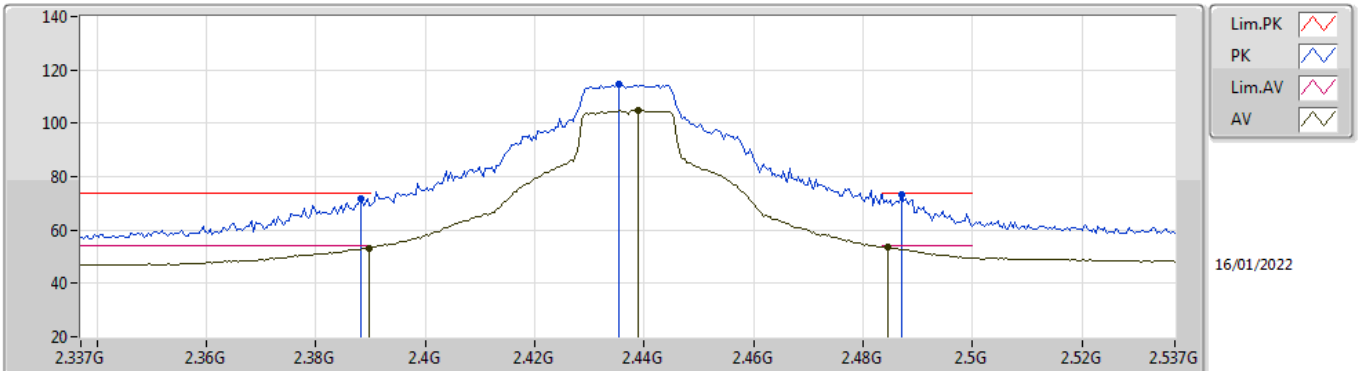


EUT Y\_1TX  
Setting 73  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.81892G     | 44.17             | 74.00             | -29.83         | 38.52         | 3           | Horizontal | 271            | 2.06          | -       | 32.78      | 5.10       | 32.23      |
| AV   | 4.82564G     | 30.59             | 54.00             | -23.41         | 24.91         | 3           | Horizontal | 271            | 2.06          | -       | 32.80      | 5.10       | 32.22      |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

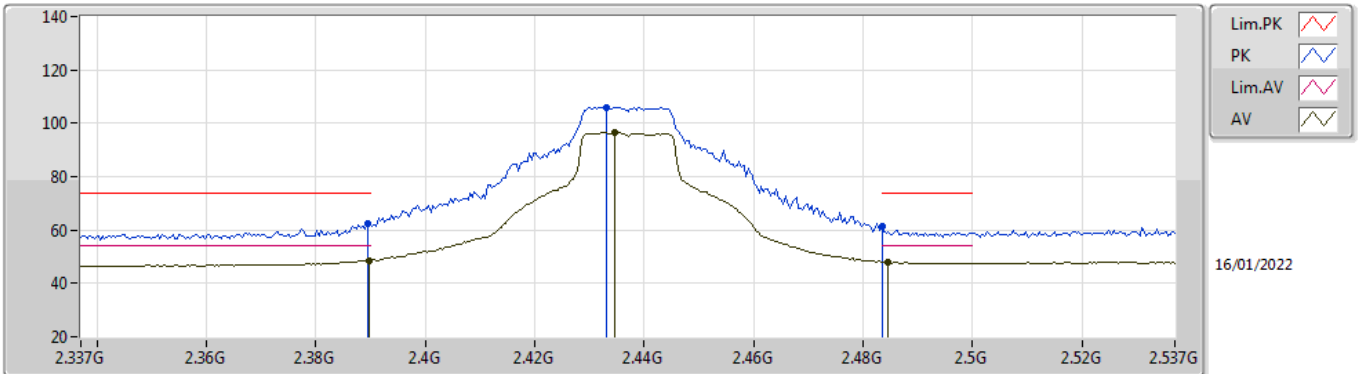


EUT\_V\_1TX  
Setting 81  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3882G      | 71.68             | 74.00             | -2.32          | 40.51         | 3           | Vertical  | 203            | 2.26          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3898G      | 53.28             | 54.00             | -0.72          | 22.11         | 3           | Vertical  | 203            | 2.26          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4354G      | 114.52            | Inf               | -Inf           | 83.28         | 3           | Vertical  | 203            | 2.26          | -       | 28.40      | 2.84       | -          |
| AV   | 2.439G       | 104.78            | Inf               | -Inf           | 73.54         | 3           | Vertical  | 203            | 2.26          | -       | 28.40      | 2.84       | -          |
| PK   | 2.487G       | 73.30             | 74.00             | -0.70          | 41.86         | 3           | Vertical  | 203            | 2.26          | -       | 28.55      | 2.89       | -          |
| AV   | 2.4846G      | 53.81             | 54.00             | -0.19          | 22.39         | 3           | Vertical  | 203            | 2.26          | -       | 28.54      | 2.88       | -          |

# 802.11g\_Nss1,(6Mbps)\_1TX

## 2437MHz\_TX

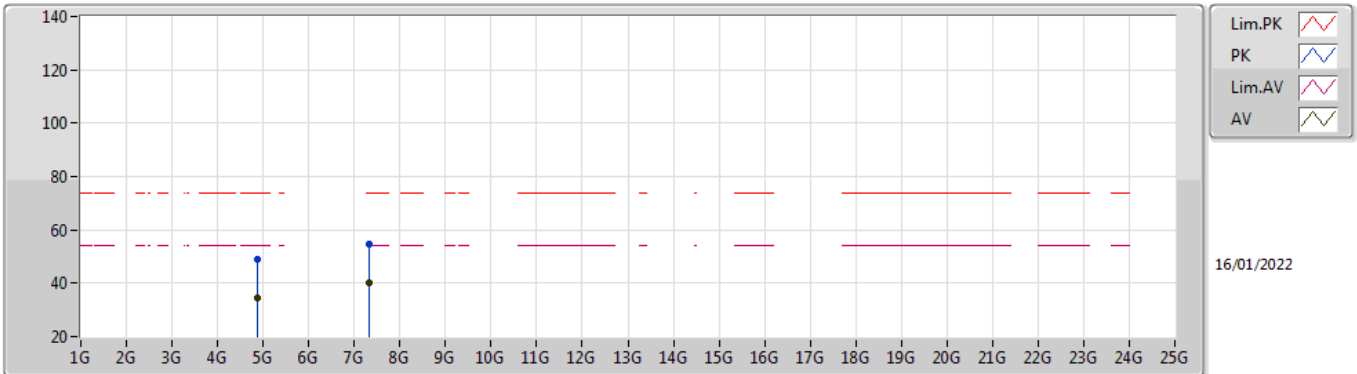


EUT\_V\_1TX  
Setting 81  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3894G      | 62.56             | 74.00             | -11.44         | 31.39         | 3           | Horizontal | 90             | 2.85          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.3898G      | 48.48             | 54.00             | -5.52          | 17.31         | 3           | Horizontal | 90             | 2.85          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.433G       | 106.01            | Inf               | -Inf           | 74.78         | 3           | Horizontal | 90             | 2.85          | -       | 28.40      | 2.83       | -          |  |
| AV   | 2.4346G      | 96.59             | Inf               | -Inf           | 65.36         | 3           | Horizontal | 90             | 2.85          | -       | 28.40      | 2.83       | -          |  |
| PK   | 2.4835G      | 61.33             | 74.00             | -12.67         | 29.92         | 3           | Horizontal | 90             | 2.85          | -       | 28.53      | 2.88       | -          |  |
| AV   | 2.4846G      | 47.94             | 54.00             | -6.06          | 16.52         | 3           | Horizontal | 90             | 2.85          | -       | 28.54      | 2.88       | -          |  |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

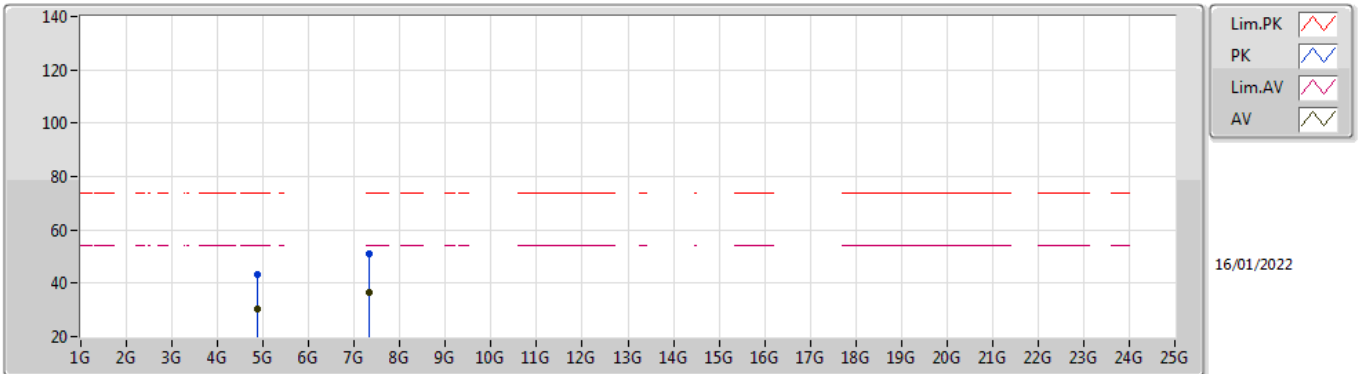


EUT Y\_1TX  
Setting 81  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.86996G     | 49.19             | 74.00             | -24.81         | 43.36         | 3           | Vertical  | 201            | 1.86          | -       | 32.94      | 5.10       | 32.21      |
| AV   | 4.87596G     | 34.57             | 54.00             | -19.43         | 28.72         | 3           | Vertical  | 201            | 1.86          | -       | 32.95      | 5.10       | 32.20      |
| PK   | 7.31244G     | 54.91             | 74.00             | -19.09         | 45.15         | 3           | Vertical  | 202            | 1.80          | -       | 36.42      | 6.16       | 32.82      |
| AV   | 7.31508G     | 40.16             | 54.00             | -13.84         | 30.40         | 3           | Vertical  | 202            | 1.80          | -       | 36.43      | 6.16       | 32.83      |

# 802.11g\_Nss1,(6Mbps)\_1TX

## 2437MHz\_TX

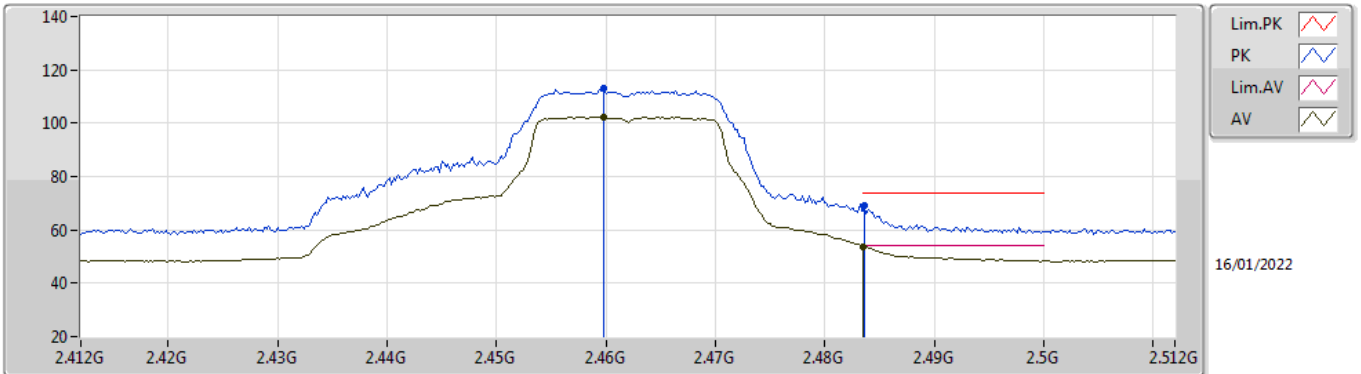


EUT V\_1TX  
Setting 81  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.87344G     | 43.17             | 74.00             | -30.83         | 37.33         | 3           | Horizontal | 84             | 2.10          | -       | 32.95      | 5.10       | 32.21      |
| AV   | 4.86792G     | 30.21             | 54.00             | -23.79         | 24.38         | 3           | Horizontal | 84             | 2.10          | -       | 32.94      | 5.10       | 32.21      |
| PK   | 7.32024G     | 50.83             | 74.00             | -23.17         | 41.07         | 3           | Horizontal | 206            | 2.72          | -       | 36.44      | 6.16       | 32.84      |
| AV   | 7.3176G      | 36.68             | 54.00             | -17.32         | 26.91         | 3           | Horizontal | 206            | 2.72          | -       | 36.44      | 6.16       | 32.83      |

# 802.11g\_Nss1,(6Mbps)\_1TX

## 2462MHz\_TX

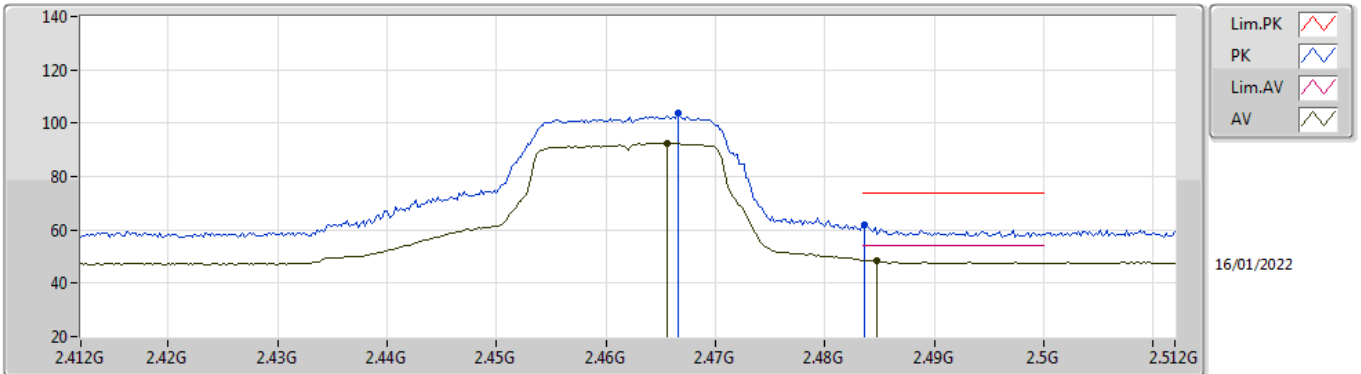


EUT V\_1TX  
Setting 71  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.4598G      | 113.00            | Inf               | -Inf           | 81.70         | 3           | Vertical  | 202            | 2.46          | -       | 28.44      | 2.86       | -          |  |
| AV   | 2.4598G      | 102.29            | Inf               | -Inf           | 70.99         | 3           | Vertical  | 202            | 2.46          | -       | 28.44      | 2.86       | -          |  |
| PK   | 2.4836G      | 69.30             | 74.00             | -4.70          | 37.89         | 3           | Vertical  | 202            | 2.46          | -       | 28.53      | 2.88       | -          |  |
| AV   | 2.4835G      | 53.82             | 54.00             | -0.18          | 22.41         | 3           | Vertical  | 202            | 2.46          | -       | 28.53      | 2.88       | -          |  |

# 802.11g\_Nss1,(6Mbps)\_1TX

## 2462MHz\_TX

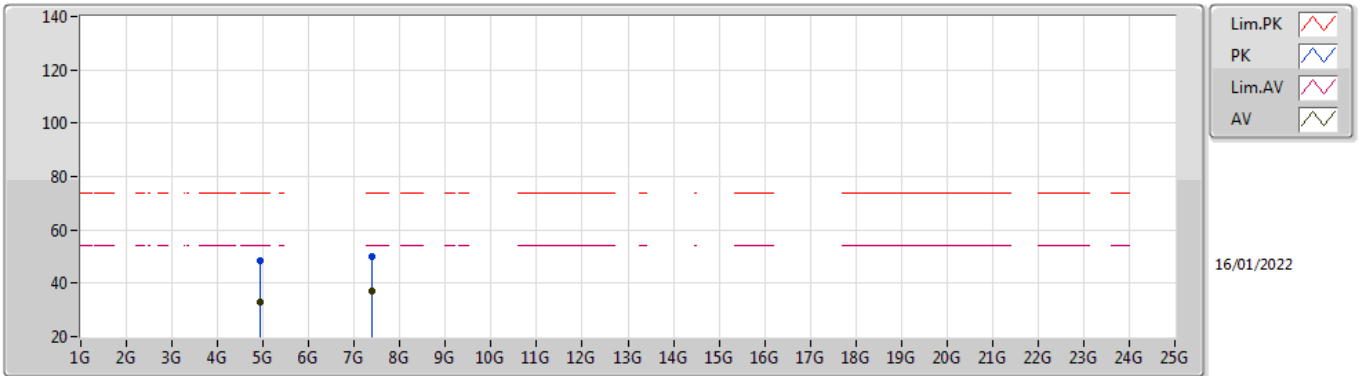


EUT\_V\_1TX  
Setting 71  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.4666G      | 103.89            | Inf               | -Inf           | 72.55         | 3           | Horizontal | 312            | 1.77          | -       | 28.47      | 2.87       | -          |  |
| AV   | 2.4656G      | 92.60             | Inf               | -Inf           | 61.27         | 3           | Horizontal | 312            | 1.77          | -       | 28.46      | 2.87       | -          |  |
| PK   | 2.4836G      | 61.74             | 74.00             | -12.26         | 30.33         | 3           | Horizontal | 312            | 1.77          | -       | 28.53      | 2.88       | -          |  |
| AV   | 2.4848G      | 48.61             | 54.00             | -5.39          | 17.19         | 3           | Horizontal | 312            | 1.77          | -       | 28.54      | 2.88       | -          |  |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

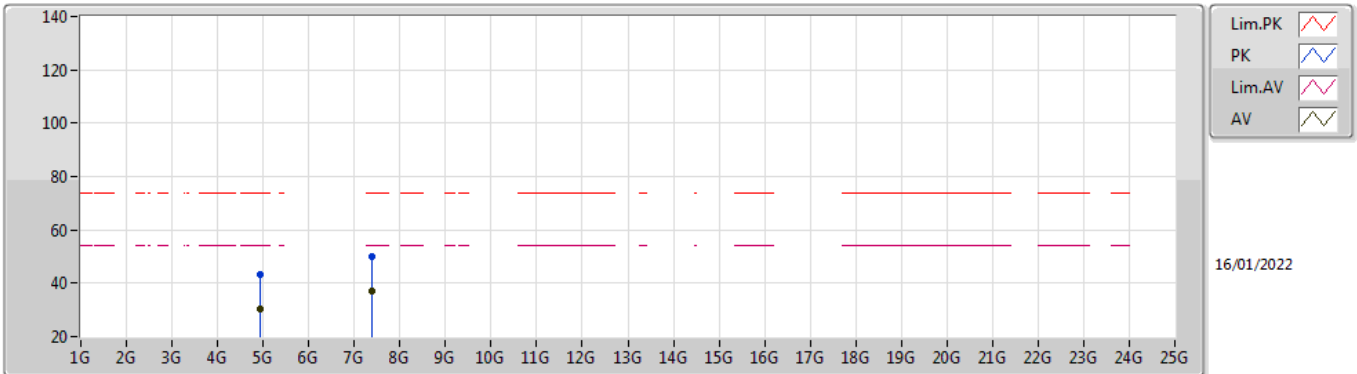


EUT Y\_1TX  
Setting 71  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.9204G      | 48.33             | 74.00             | -25.67         | 42.30         | 3           | Vertical  | 201            | 1.91          | -       | 33.12      | 5.10       | 32.19      |
| AV   | 4.93G        | 32.97             | 54.00             | -21.03         | 26.88         | 3           | Vertical  | 201            | 1.91          | -       | 33.18      | 5.10       | 32.19      |
| PK   | 7.3796G      | 50.23             | 74.00             | -23.77         | 40.42         | 3           | Vertical  | 136            | 2.14          | -       | 36.56      | 6.19       | 32.94      |
| AV   | 7.38232G     | 37.04             | 54.00             | -16.96         | 27.24         | 3           | Vertical  | 136            | 2.14          | -       | 36.56      | 6.19       | 32.95      |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

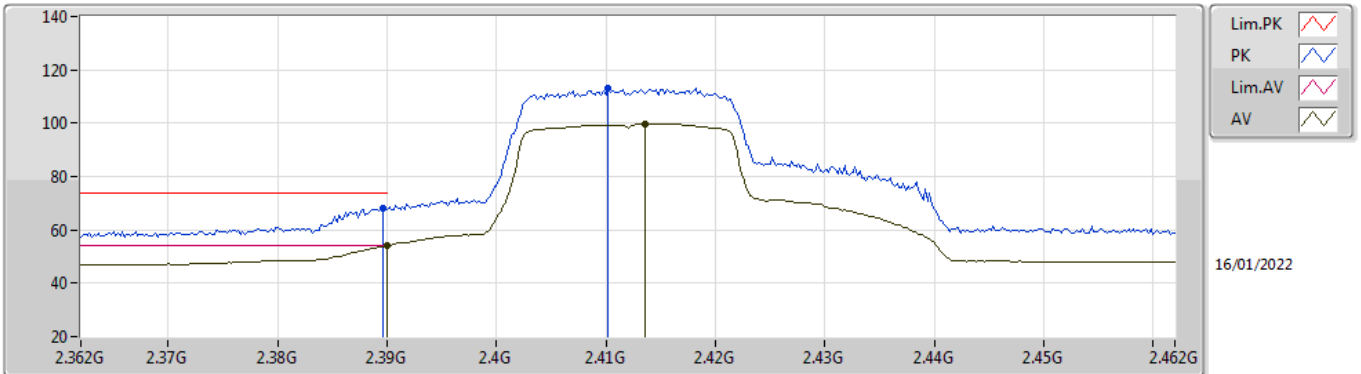


EUT Y\_1TX  
Setting 71  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.93032G     | 43.37             | 74.00             | -30.63         | 37.28         | 3           | Horizontal | 147            | 2.80          | -       | 33.18      | 5.10       | 32.19      |
| AV   | 4.92952G     | 30.24             | 54.00             | -23.76         | 24.15         | 3           | Horizontal | 147            | 2.80          | -       | 33.18      | 5.10       | 32.19      |
| PK   | 7.38584G     | 50.15             | 74.00             | -23.85         | 40.34         | 3           | Horizontal | 175            | 2.72          | -       | 36.57      | 6.19       | 32.95      |
| AV   | 7.37764G     | 36.91             | 54.00             | -17.09         | 27.10         | 3           | Horizontal | 175            | 2.72          | -       | 36.56      | 6.19       | 32.94      |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX

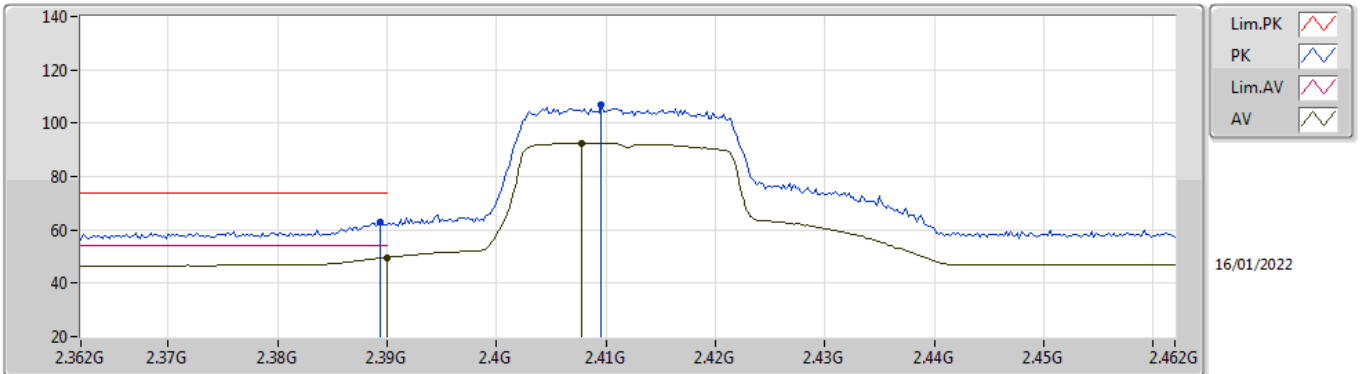


EUT Y\_1TX  
Setting 72  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3896G      | 68.27             | 74.00             | -5.73          | 37.10         | 3           | Vertical  | 171            | 1.84          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.39G        | 53.90             | 54.00             | -0.10          | 22.73         | 3           | Vertical  | 171            | 1.84          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.4102G      | 113.01            | Inf               | -Inf           | 81.80         | 3           | Vertical  | 171            | 1.84          | -       | 28.40      | 2.81       | -          |  |
| AV   | 2.4136G      | 99.90             | Inf               | -Inf           | 68.69         | 3           | Vertical  | 171            | 1.84          | -       | 28.40      | 2.81       | -          |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX

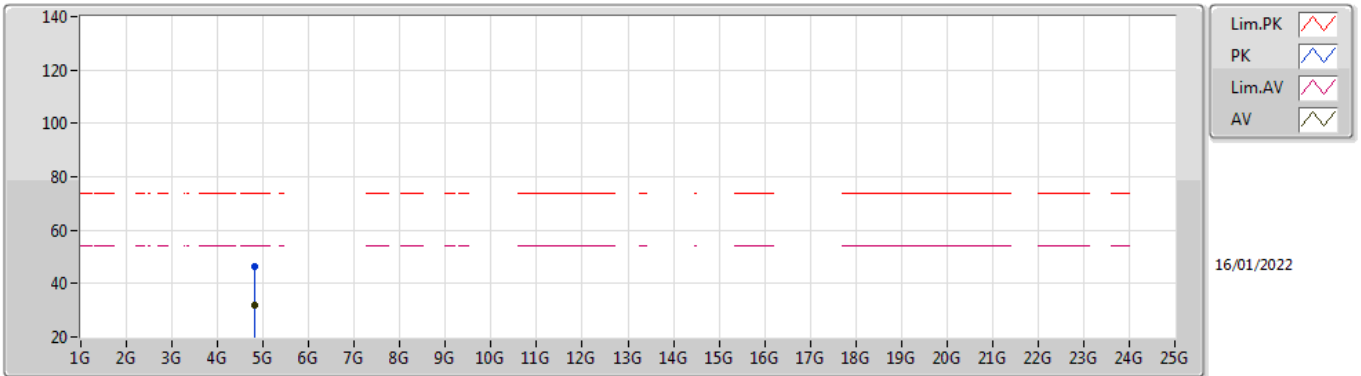


EUT Y\_1TX  
Setting 72  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3894G      | 62.81             | 74.00             | -11.19         | 31.64         | 3           | Horizontal | 297            | 2.84          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.39G        | 49.62             | 54.00             | -4.38          | 18.45         | 3           | Horizontal | 297            | 2.84          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.4096G      | 106.64            | Inf               | -Inf           | 75.43         | 3           | Horizontal | 297            | 2.84          | -       | 28.40      | 2.81       | -          |  |
| AV   | 2.4078G      | 92.62             | Inf               | -Inf           | 61.41         | 3           | Horizontal | 297            | 2.84          | -       | 28.40      | 2.81       | -          |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX

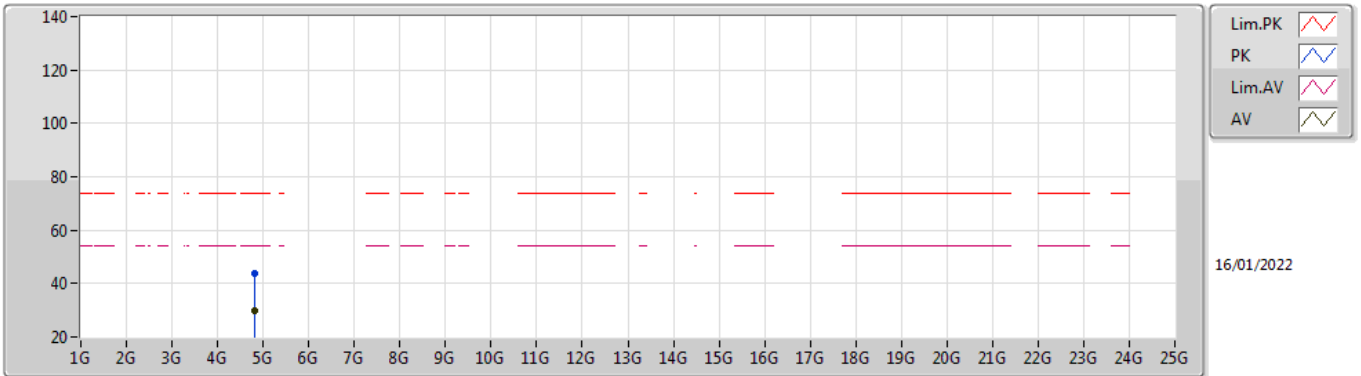


EUT V\_1TX  
Setting 72  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.81792G     | 46.50             | 74.00             | -27.50         | 40.86         | 3           | Vertical  | 196            | 1.80          | -       | 32.77      | 5.10       | 32.23      |  |
| AV   | 4.82276G     | 32.00             | 54.00             | -22.00         | 26.33         | 3           | Vertical  | 196            | 1.80          | -       | 32.79      | 5.10       | 32.22      |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX

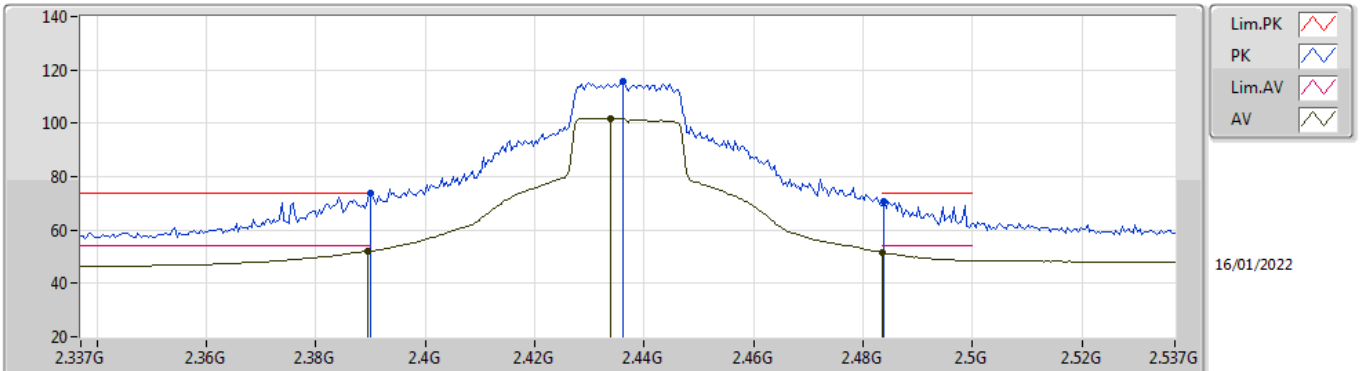


EUT Y\_1TX  
Setting 72  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.8276G      | 43.89             | 74.00             | -30.11         | 38.20         | 3           | Horizontal | 216            | 1.71          | -       | 32.81      | 5.10       | 32.22      |
| AV   | 4.82648G     | 29.63             | 54.00             | -24.37         | 23.94         | 3           | Horizontal | 216            | 1.71          | -       | 32.81      | 5.10       | 32.22      |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

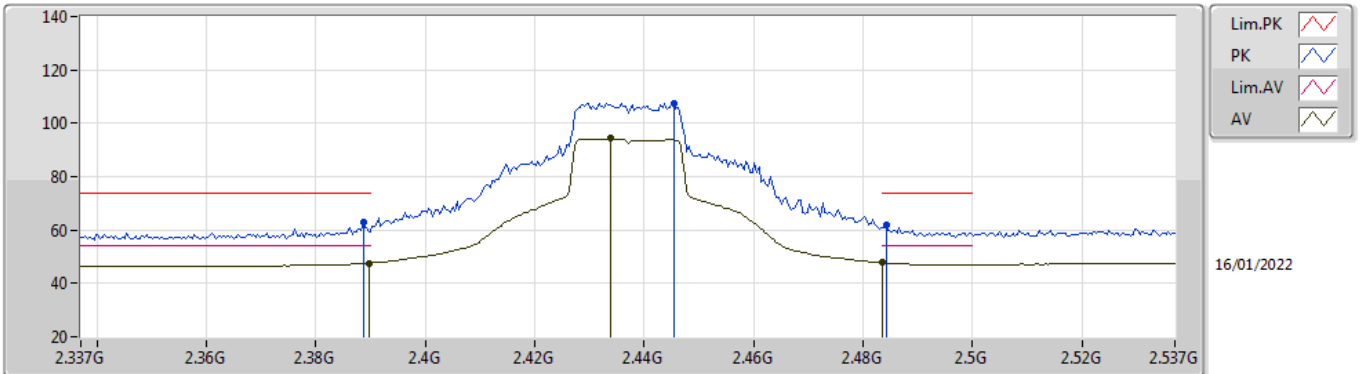


EUT\_V\_1TX  
Setting 77  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.39G        | 73.89             | 74.00             | -0.11          | 42.72         | 3           | Vertical  | 198            | 2.80          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.3894G      | 52.01             | 54.00             | -1.99          | 20.84         | 3           | Vertical  | 198            | 2.80          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.4362G      | 115.70            | Inf               | -Inf           | 84.46         | 3           | Vertical  | 198            | 2.80          | -       | 28.40      | 2.84       | -          |  |
| AV   | 2.4338G      | 101.92            | Inf               | -Inf           | 70.69         | 3           | Vertical  | 198            | 2.80          | -       | 28.40      | 2.83       | -          |  |
| PK   | 2.4838G      | 70.64             | 74.00             | -3.36          | 39.22         | 3           | Vertical  | 198            | 2.80          | -       | 28.54      | 2.88       | -          |  |
| AV   | 2.4835G      | 51.38             | 54.00             | -2.62          | 19.97         | 3           | Vertical  | 198            | 2.80          | -       | 28.53      | 2.88       | -          |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

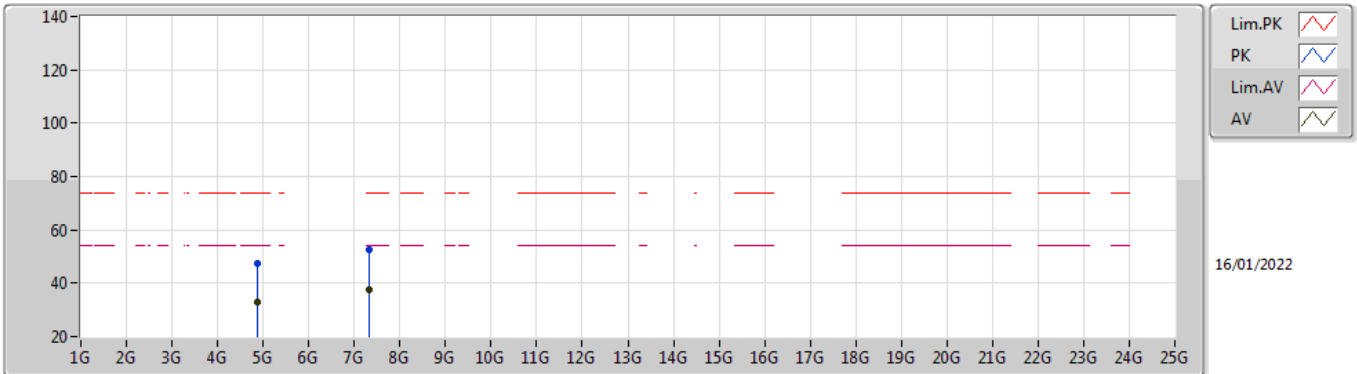


EUT\_V\_1TX  
Setting 77  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3886G      | 62.82             | 74.00             | -11.18         | 31.65         | 3           | Horizontal | 91             | 2.83          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3898G      | 47.66             | 54.00             | -6.34          | 16.49         | 3           | Horizontal | 91             | 2.83          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4454G      | 107.60            | Inf               | -Inf           | 76.35         | 3           | Horizontal | 91             | 2.83          | -       | 28.40      | 2.85       | -          |
| AV   | 2.4338G      | 94.26             | Inf               | -Inf           | 63.03         | 3           | Horizontal | 91             | 2.83          | -       | 28.40      | 2.83       | -          |
| PK   | 2.4842G      | 62.10             | 74.00             | -11.90         | 30.68         | 3           | Horizontal | 91             | 2.83          | -       | 28.54      | 2.88       | -          |
| AV   | 2.4835G      | 47.78             | 54.00             | -6.22          | 16.37         | 3           | Horizontal | 91             | 2.83          | -       | 28.53      | 2.88       | -          |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

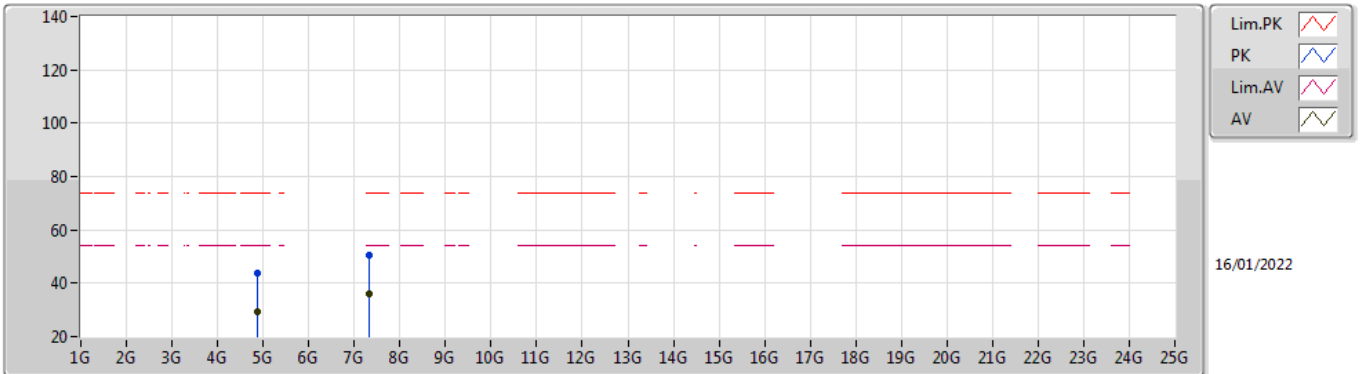


EUT Y\_1TX  
Setting 77  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.87368G     | 47.42             | 74.00             | -26.58         | 41.58         | 3           | Vertical  | 208            | 2.05          | -       | 32.95      | 5.10       | 32.21      |
| AV   | 4.87564G     | 32.88             | 54.00             | -21.12         | 27.03         | 3           | Vertical  | 208            | 2.05          | -       | 32.95      | 5.10       | 32.20      |
| PK   | 7.31812G     | 52.73             | 74.00             | -21.27         | 42.96         | 3           | Vertical  | 201            | 1.80          | -       | 36.44      | 6.16       | 32.83      |
| AV   | 7.31356G     | 37.61             | 54.00             | -16.39         | 27.85         | 3           | Vertical  | 201            | 1.80          | -       | 36.43      | 6.16       | 32.83      |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

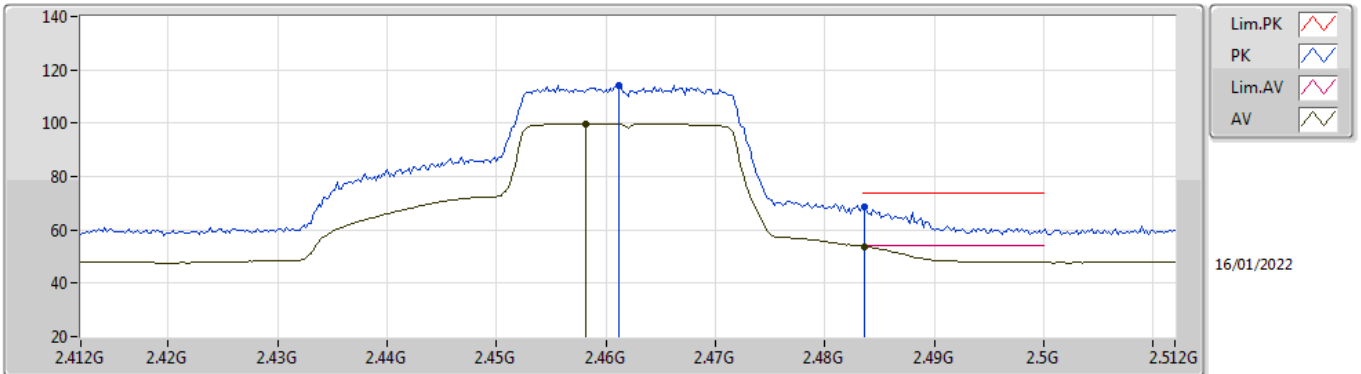


EUT Y\_1TX  
Setting 77  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.88216G     | 43.82             | 74.00             | -30.18         | 37.96         | 3           | Horizontal | 197            | 2.47          | -       | 32.96      | 5.10       | 32.20      |
| AV   | 4.87584G     | 29.55             | 54.00             | -24.45         | 23.70         | 3           | Horizontal | 197            | 2.47          | -       | 32.95      | 5.10       | 32.20      |
| PK   | 7.31268G     | 50.43             | 74.00             | -23.57         | 40.66         | 3           | Horizontal | 89             | 1.82          | -       | 36.43      | 6.16       | 32.82      |
| AV   | 7.3152G      | 36.08             | 54.00             | -17.92         | 26.32         | 3           | Horizontal | 89             | 1.82          | -       | 36.43      | 6.16       | 32.83      |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX

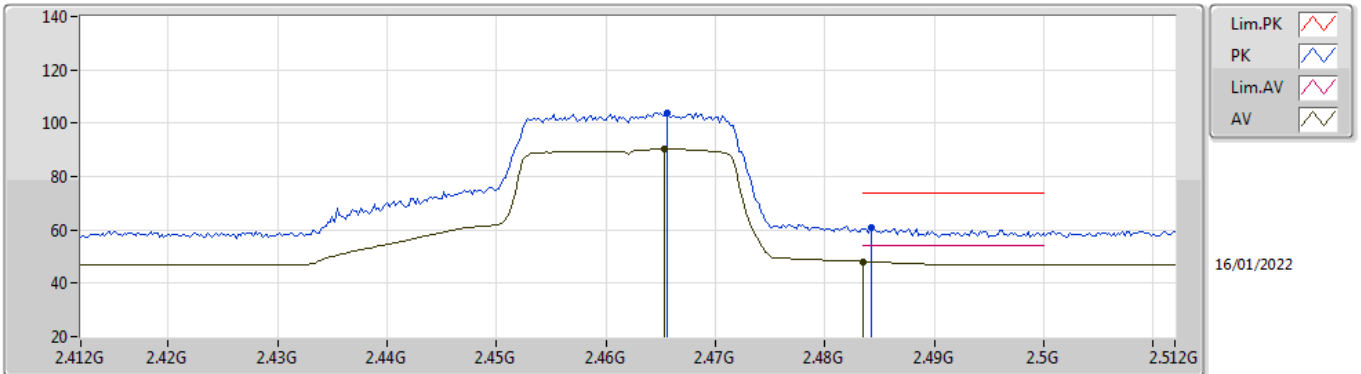


EUT\_V\_1TX  
Setting 71  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.4612G      | 114.27            | Inf               | -Inf           | 82.97         | 3           | Vertical  | 200            | 2.46          | -       | 28.44      | 2.86       | -          |
| AV   | 2.4582G      | 99.87             | Inf               | -Inf           | 68.58         | 3           | Vertical  | 200            | 2.46          | -       | 28.43      | 2.86       | -          |
| PK   | 2.4836G      | 68.43             | 74.00             | -5.57          | 37.02         | 3           | Vertical  | 200            | 2.46          | -       | 28.53      | 2.88       | -          |
| AV   | 2.4836G      | 53.81             | 54.00             | -0.19          | 22.40         | 3           | Vertical  | 200            | 2.46          | -       | 28.53      | 2.88       | -          |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX

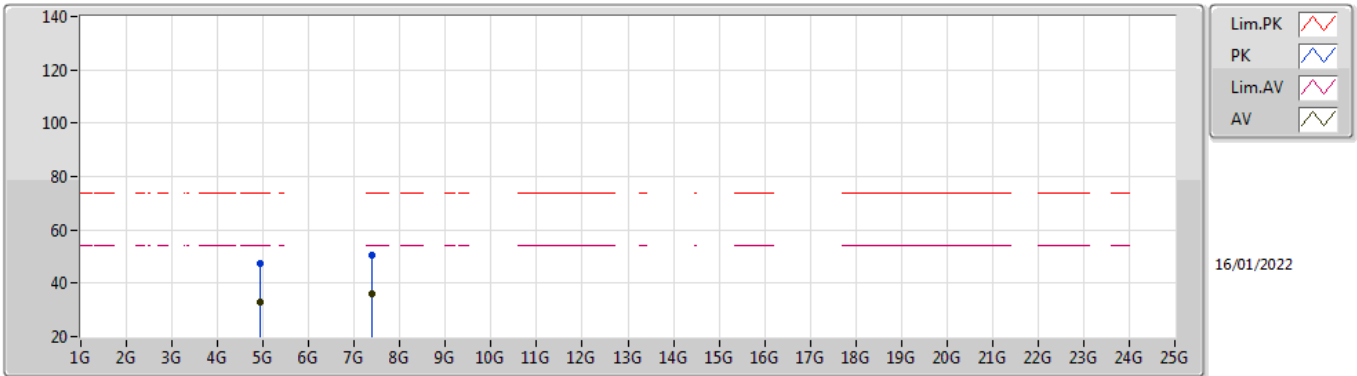


EUT V\_1TX  
Setting 71  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.4656G      | 104.03            | Inf               | -Inf           | 72.70         | 3           | Horizontal | 311            | 1.78          | -       | 28.46      | 2.87       | -          |  |
| AV   | 2.4654G      | 90.26             | Inf               | -Inf           | 58.93         | 3           | Horizontal | 311            | 1.78          | -       | 28.46      | 2.87       | -          |  |
| PK   | 2.4842G      | 60.77             | 74.00             | -13.23         | 29.35         | 3           | Horizontal | 311            | 1.78          | -       | 28.54      | 2.88       | -          |  |
| AV   | 2.4835G      | 48.17             | 54.00             | -5.83          | 16.76         | 3           | Horizontal | 311            | 1.78          | -       | 28.53      | 2.88       | -          |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX

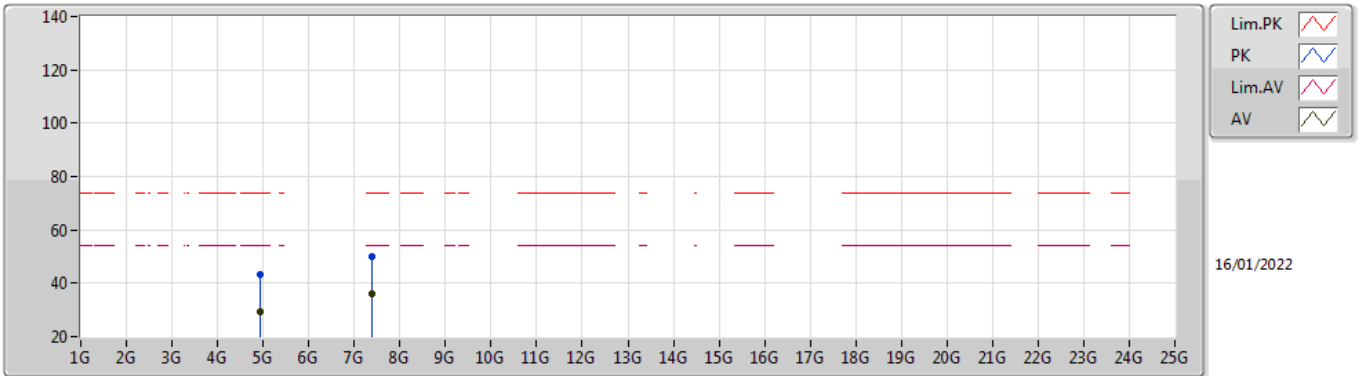


EUT Y\_1TX  
Setting 71  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.92492G     | 47.31             | 74.00             | -26.69         | 41.25         | 3           | Vertical  | 253            | 1.99          | -       | 33.15      | 5.10       | 32.19      |  |
| AV   | 4.92888G     | 32.87             | 54.00             | -21.13         | 26.79         | 3           | Vertical  | 253            | 1.99          | -       | 33.17      | 5.10       | 32.19      |  |
| PK   | 7.39304G     | 50.28             | 74.00             | -23.72         | 40.45         | 3           | Vertical  | 112            | 1.02          | -       | 36.59      | 6.20       | 32.96      |  |
| AV   | 7.38424G     | 36.13             | 54.00             | -17.87         | 26.32         | 3           | Vertical  | 112            | 1.02          | -       | 36.57      | 6.19       | 32.95      |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX

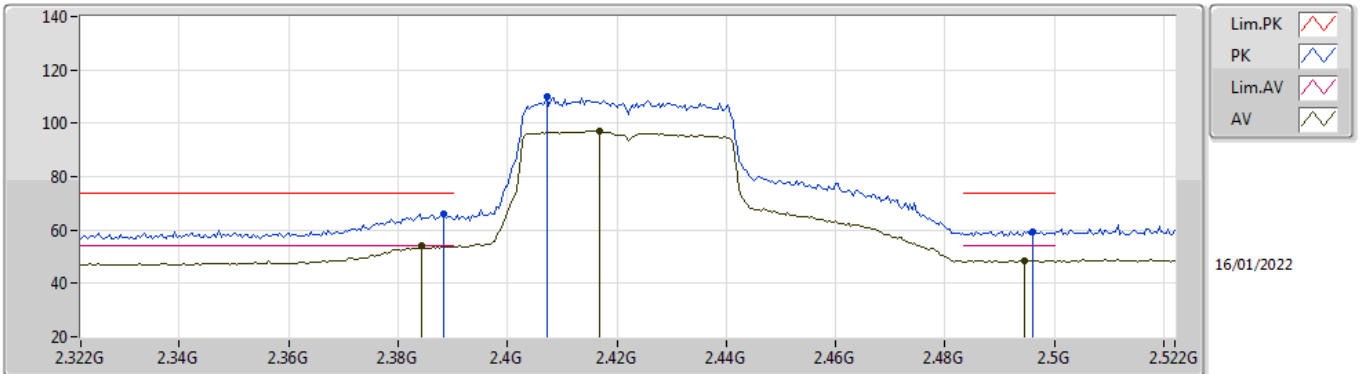


EUT Y\_1TX  
Setting 71  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.93312G     | 43.38             | 74.00             | -30.62         | 37.26         | 3           | Horizontal | 110            | 1.03          | -       | 33.20      | 5.10       | 32.18      |
| AV   | 4.92892G     | 29.51             | 54.00             | -24.49         | 23.43         | 3           | Horizontal | 110            | 1.03          | -       | 33.17      | 5.10       | 32.19      |
| PK   | 7.37708G     | 50.02             | 74.00             | -23.98         | 40.22         | 3           | Horizontal | 26             | 2.85          | -       | 36.55      | 6.19       | 32.94      |
| AV   | 7.3846G      | 36.10             | 54.00             | -17.90         | 26.29         | 3           | Horizontal | 26             | 2.85          | -       | 36.57      | 6.19       | 32.95      |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX

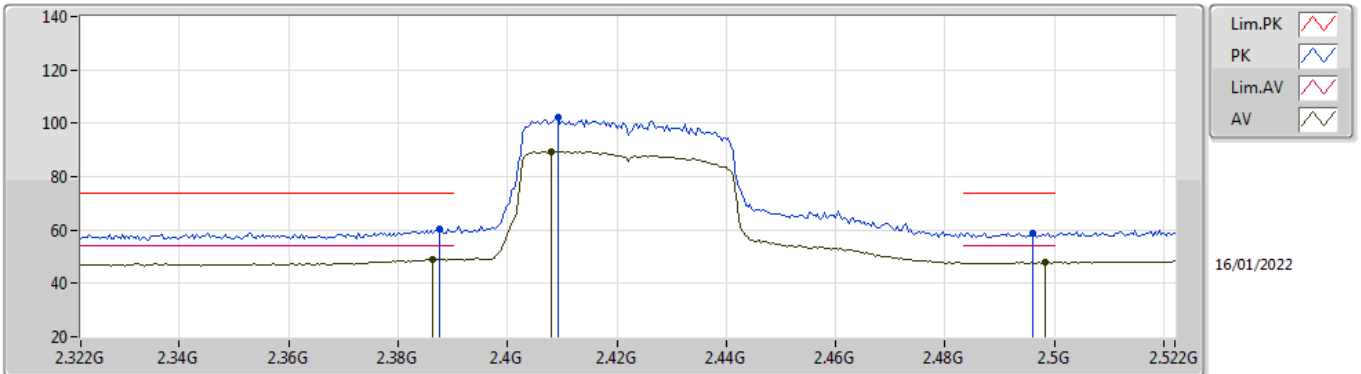


EUT\_V\_1TX  
Setting 66  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3884G      | 66.10             | 74.00             | -7.90          | 34.93         | 3           | Vertical  | 173            | 2.57          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3844G      | 53.88             | 54.00             | -0.12          | 22.72         | 3           | Vertical  | 173            | 2.57          | -       | 28.37      | 2.79       | -          |
| PK   | 2.4072G      | 109.77            | Inf               | -Inf           | 78.56         | 3           | Vertical  | 173            | 2.57          | -       | 28.40      | 2.81       | -          |
| AV   | 2.4168G      | 97.05             | Inf               | -Inf           | 65.83         | 3           | Vertical  | 173            | 2.57          | -       | 28.40      | 2.82       | -          |
| PK   | 2.496G       | 59.51             | 74.00             | -14.49         | 28.03         | 3           | Vertical  | 173            | 2.57          | -       | 28.58      | 2.90       | -          |
| AV   | 2.4944G      | 48.52             | 54.00             | -5.48          | 17.05         | 3           | Vertical  | 173            | 2.57          | -       | 28.58      | 2.89       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX

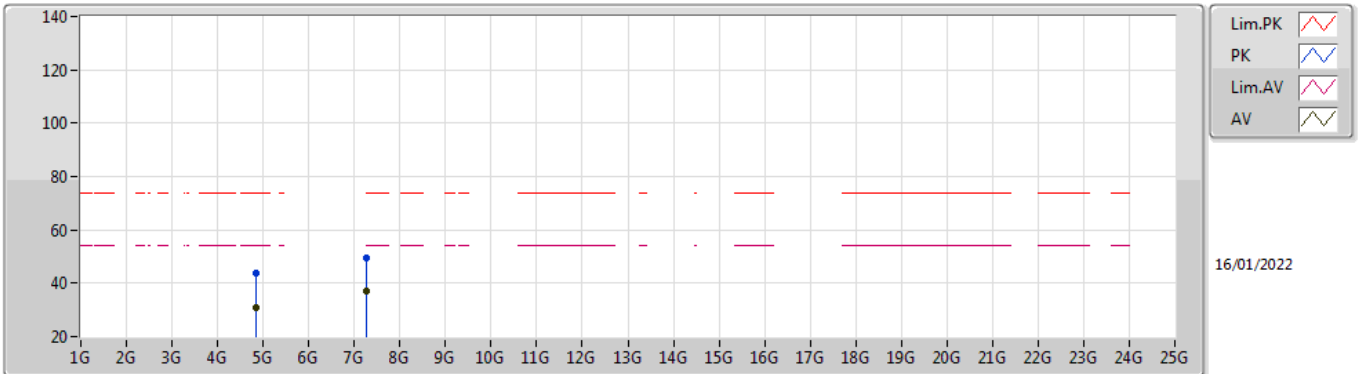


EUT\_V\_1TX  
Setting 66  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3876G      | 60.36             | 74.00             | -13.64         | 29.19         | 3           | Horizontal | 298            | 2.84          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3864G      | 49.21             | 54.00             | -4.79          | 18.05         | 3           | Horizontal | 298            | 2.84          | -       | 28.37      | 2.79       | -          |
| PK   | 2.4092G      | 102.17            | Inf               | -Inf           | 70.96         | 3           | Horizontal | 298            | 2.84          | -       | 28.40      | 2.81       | -          |
| AV   | 2.408G       | 89.50             | Inf               | -Inf           | 58.29         | 3           | Horizontal | 298            | 2.84          | -       | 28.40      | 2.81       | -          |
| PK   | 2.496G       | 58.93             | 74.00             | -15.07         | 27.45         | 3           | Horizontal | 298            | 2.84          | -       | 28.58      | 2.90       | -          |
| AV   | 2.4984G      | 47.87             | 54.00             | -6.13          | 16.38         | 3           | Horizontal | 298            | 2.84          | -       | 28.59      | 2.90       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX

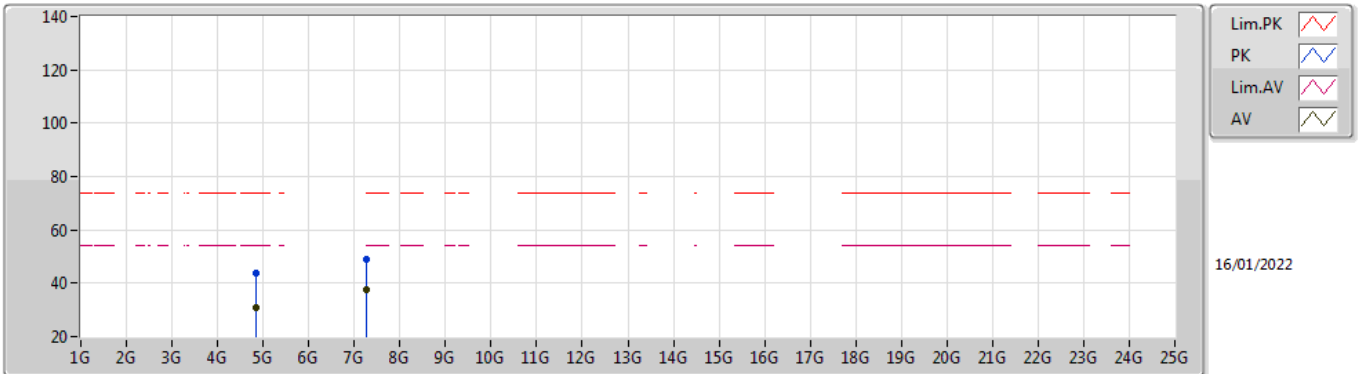


EUT V\_1TX  
Setting 66  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.85376G     | 43.60             | 74.00             | -30.40         | 37.80         | 3           | Vertical  | 135            | 2.58          | -       | 32.91      | 5.10       | 32.21      |
| AV   | 4.84672G     | 30.63             | 54.00             | -23.37         | 24.86         | 3           | Vertical  | 135            | 2.58          | -       | 32.89      | 5.10       | 32.22      |
| PK   | 7.26312G     | 49.52             | 74.00             | -24.48         | 39.95         | 3           | Vertical  | 165            | 2.79          | -       | 36.18      | 6.13       | 32.74      |
| AV   | 7.26688G     | 37.10             | 54.00             | -16.90         | 27.51         | 3           | Vertical  | 165            | 2.79          | -       | 36.20      | 6.13       | 32.74      |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX

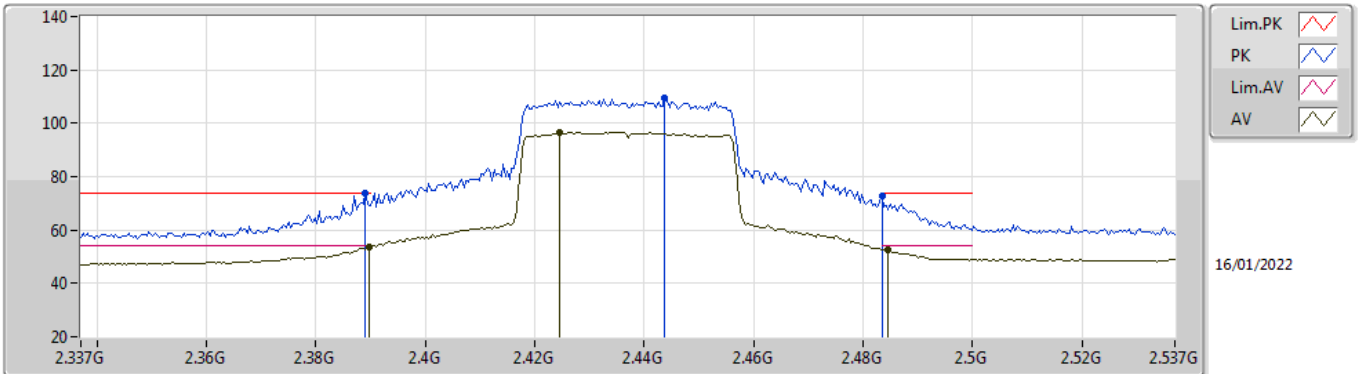


EUT V\_1TX  
Setting 66  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.8476G      | 43.64             | 74.00             | -30.36         | 37.86         | 3           | Horizontal | 317            | 2.67          | -       | 32.89      | 5.10       | 32.21      |
| AV   | 4.83804G     | 30.77             | 54.00             | -23.23         | 25.04         | 3           | Horizontal | 317            | 2.67          | -       | 32.85      | 5.10       | 32.22      |
| PK   | 7.25764G     | 49.07             | 74.00             | -24.93         | 39.52         | 3           | Horizontal | 170            | 2.86          | -       | 36.15      | 6.13       | 32.73      |
| AV   | 7.26072G     | 37.33             | 54.00             | -16.67         | 27.77         | 3           | Horizontal | 170            | 2.86          | -       | 36.16      | 6.13       | 32.73      |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

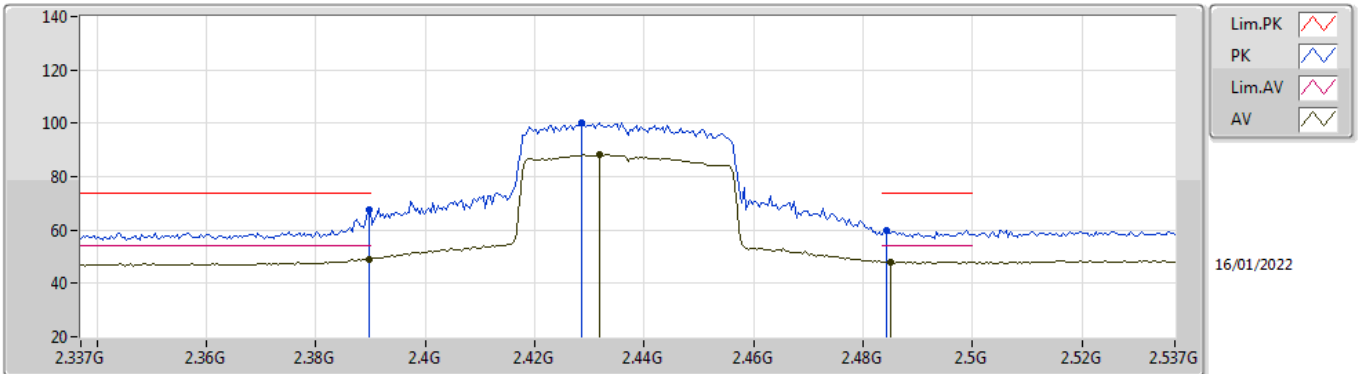


EUT\_V\_1TX  
Setting 63  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.389G       | 73.70             | 74.00             | -0.30          | 42.53         | 3           | Vertical  | 174            | 2.29          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3898G      | 53.84             | 54.00             | -0.16          | 22.67         | 3           | Vertical  | 174            | 2.29          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4438G      | 109.33            | Inf               | -Inf           | 78.09         | 3           | Vertical  | 174            | 2.29          | -       | 28.40      | 2.84       | -          |
| AV   | 2.4246G      | 96.68             | Inf               | -Inf           | 65.46         | 3           | Vertical  | 174            | 2.29          | -       | 28.40      | 2.82       | -          |
| PK   | 2.4835G      | 72.64             | 74.00             | -1.36          | 41.23         | 3           | Vertical  | 174            | 2.29          | -       | 28.53      | 2.88       | -          |
| AV   | 2.4846G      | 52.68             | 54.00             | -1.32          | 21.26         | 3           | Vertical  | 174            | 2.29          | -       | 28.54      | 2.88       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

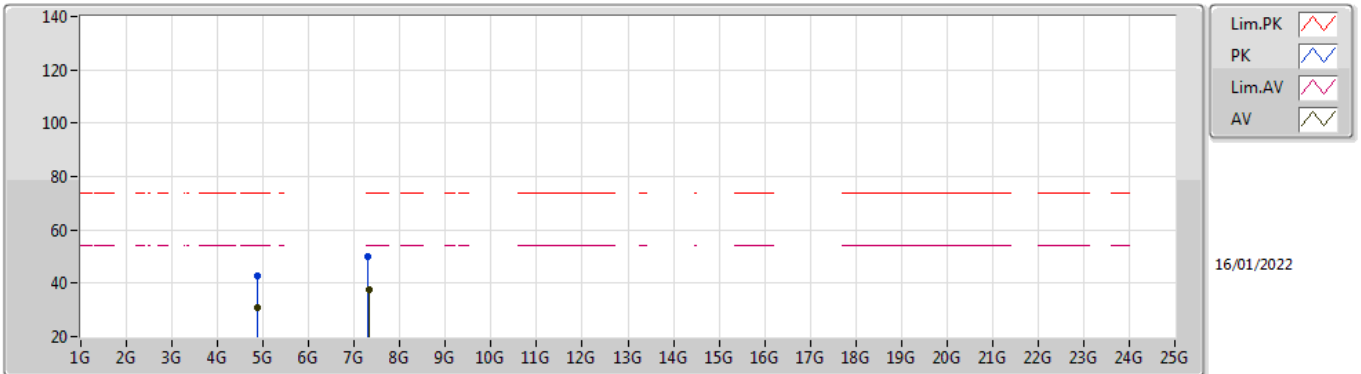


EUT\_V\_1TX  
Setting 63  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3898G      | 67.55             | 74.00             | -6.45          | 36.38         | 3           | Horizontal | 301            | 2.78          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3898G      | 49.12             | 54.00             | -4.88          | 17.95         | 3           | Horizontal | 301            | 2.78          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4286G      | 100.25            | Inf               | -Inf           | 69.02         | 3           | Horizontal | 301            | 2.78          | -       | 28.40      | 2.83       | -          |
| AV   | 2.4318G      | 88.41             | Inf               | -Inf           | 57.18         | 3           | Horizontal | 301            | 2.78          | -       | 28.40      | 2.83       | -          |
| PK   | 2.4842G      | 59.89             | 74.00             | -14.11         | 28.47         | 3           | Horizontal | 301            | 2.78          | -       | 28.54      | 2.88       | -          |
| AV   | 2.485G       | 48.14             | 54.00             | -5.86          | 16.71         | 3           | Horizontal | 301            | 2.78          | -       | 28.54      | 2.89       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

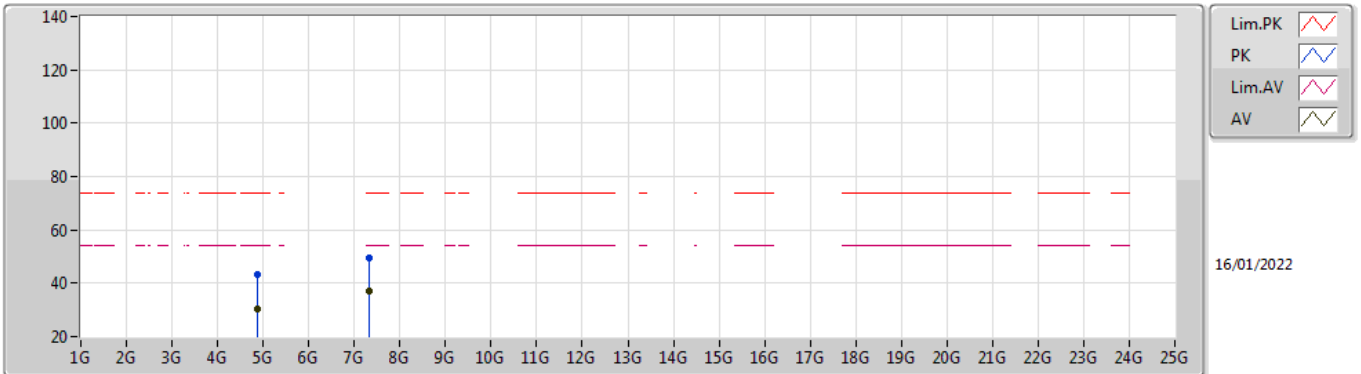


EUT Y\_1TX  
Setting 63  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.87792G     | 42.68             | 74.00             | -31.32         | 36.82         | 3           | Vertical  | 19             | 2.39          | -       | 32.96      | 5.10       | 32.20      |  |
| AV   | 4.87932G     | 30.75             | 54.00             | -23.25         | 24.89         | 3           | Vertical  | 19             | 2.39          | -       | 32.96      | 5.10       | 32.20      |  |
| PK   | 7.3034G      | 49.79             | 74.00             | -24.21         | 40.04         | 3           | Vertical  | 288            | 1.38          | -       | 36.41      | 6.15       | 32.81      |  |
| AV   | 7.31888G     | 37.38             | 54.00             | -16.62         | 27.61         | 3           | Vertical  | 288            | 1.38          | -       | 36.44      | 6.16       | 32.83      |  |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

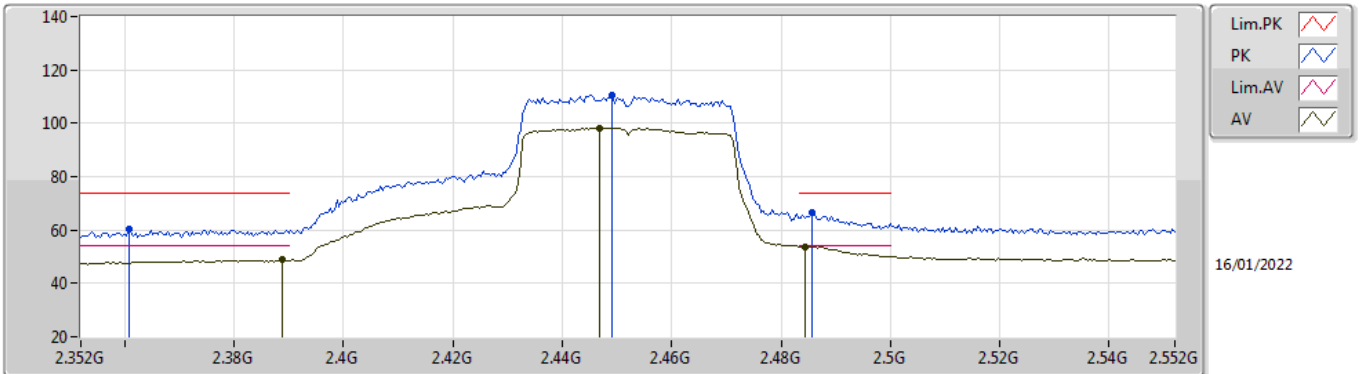


EUT V\_1TX  
Setting 63  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.86876G     | 43.38             | 74.00             | -30.62         | 37.55         | 3           | Horizontal | 170            | 1.95          | -       | 32.94      | 5.10       | 32.21      |
| AV   | 4.87584G     | 30.60             | 54.00             | -23.40         | 24.75         | 3           | Horizontal | 170            | 1.95          | -       | 32.95      | 5.10       | 32.20      |
| PK   | 7.31044G     | 49.50             | 74.00             | -24.50         | 39.74         | 3           | Horizontal | 67             | 2.91          | -       | 36.42      | 6.16       | 32.82      |
| AV   | 7.32048G     | 37.18             | 54.00             | -16.82         | 27.42         | 3           | Horizontal | 67             | 2.91          | -       | 36.44      | 6.16       | 32.84      |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX

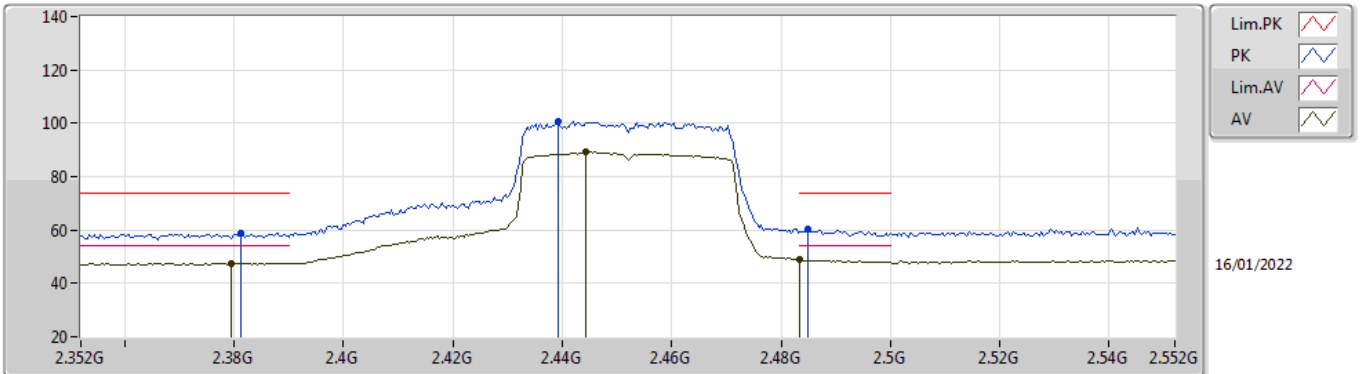


EUT\_V\_1TX  
Setting 68  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3608G      | 60.11             | 74.00             | -13.89         | 29.01         | 3           | Vertical  | 193            | 2.24          | -       | 28.32      | 2.78       | -          |
| AV   | 2.3888G      | 48.84             | 54.00             | -5.16          | 17.67         | 3           | Vertical  | 193            | 2.24          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4492G      | 110.47            | Inf               | -Inf           | 79.22         | 3           | Vertical  | 193            | 2.24          | -       | 28.40      | 2.85       | -          |
| AV   | 2.4468G      | 98.24             | Inf               | -Inf           | 66.99         | 3           | Vertical  | 193            | 2.24          | -       | 28.40      | 2.85       | -          |
| PK   | 2.4856G      | 66.33             | 74.00             | -7.67          | 34.90         | 3           | Vertical  | 193            | 2.24          | -       | 28.54      | 2.89       | -          |
| AV   | 2.4844G      | 53.87             | 54.00             | -0.13          | 22.45         | 3           | Vertical  | 193            | 2.24          | -       | 28.54      | 2.88       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX

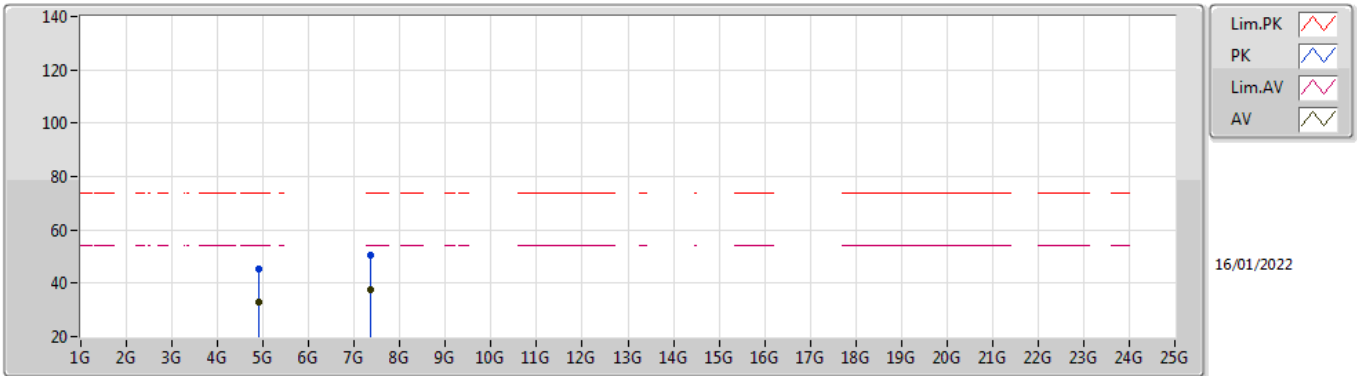


EUT\_V\_1TX  
Setting 68  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3812G      | 58.78             | 74.00             | -15.22         | 27.63         | 3           | Horizontal | 308            | 2.74          | -       | 28.36      | 2.79       | -          |
| AV   | 2.3796G      | 47.60             | 54.00             | -6.40          | 16.45         | 3           | Horizontal | 308            | 2.74          | -       | 28.36      | 2.79       | -          |
| PK   | 2.4392G      | 100.74            | Inf               | -Inf           | 69.50         | 3           | Horizontal | 308            | 2.74          | -       | 28.40      | 2.84       | -          |
| AV   | 2.4444G      | 89.21             | Inf               | -Inf           | 57.97         | 3           | Horizontal | 308            | 2.74          | -       | 28.40      | 2.84       | -          |
| PK   | 2.4848G      | 60.24             | 74.00             | -13.76         | 28.82         | 3           | Horizontal | 308            | 2.74          | -       | 28.54      | 2.88       | -          |
| AV   | 2.4835G      | 48.84             | 54.00             | -5.16          | 17.43         | 3           | Horizontal | 308            | 2.74          | -       | 28.53      | 2.88       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX

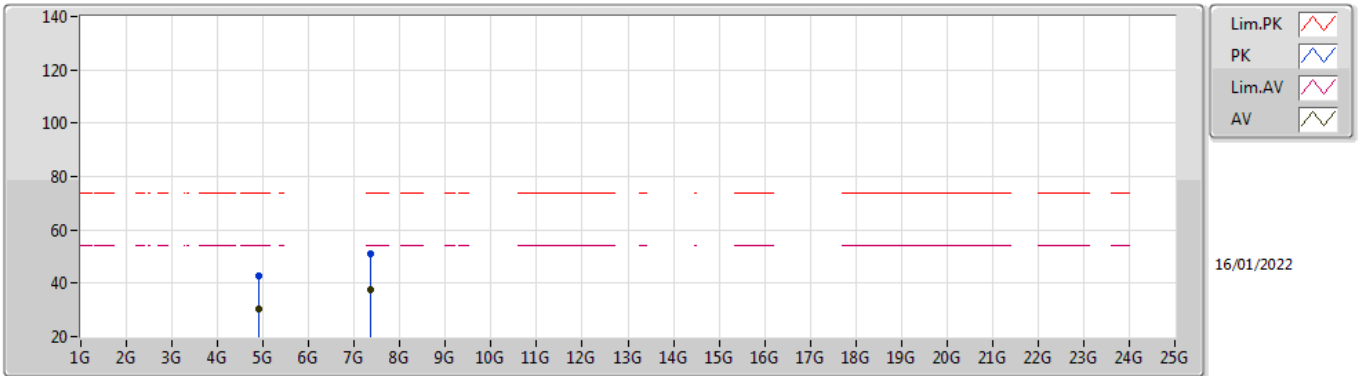


EUT V\_1TX  
Setting 68  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.90552G     | 45.23             | 74.00             | -28.77         | 39.29         | 3           | Vertical  | 201            | 1.80          | -       | 33.03      | 5.10       | 32.19      |
| AV   | 4.91144G     | 32.80             | 54.00             | -21.20         | 26.82         | 3           | Vertical  | 201            | 1.80          | -       | 33.07      | 5.10       | 32.19      |
| PK   | 7.36184G     | 50.67             | 74.00             | -23.33         | 40.88         | 3           | Vertical  | 351            | 2.17          | -       | 36.52      | 6.18       | 32.91      |
| AV   | 7.35008G     | 37.54             | 54.00             | -16.46         | 27.75         | 3           | Vertical  | 351            | 2.17          | -       | 36.50      | 6.18       | 32.89      |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX



EUT V\_1TX  
Setting 68  
02-B-J-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.908G       | 42.86             | 74.00             | -31.14         | 36.90         | 3           | Horizontal | 53             | 1.72          | -       | 33.05      | 5.10       | 32.19      |
| AV   | 4.9072G      | 30.50             | 54.00             | -23.50         | 24.55         | 3           | Horizontal | 53             | 1.72          | -       | 33.04      | 5.10       | 32.19      |
| PK   | 7.36024G     | 50.87             | 74.00             | -23.13         | 41.08         | 3           | Horizontal | 132            | 1.94          | -       | 36.52      | 6.18       | 32.91      |
| AV   | 7.3496G      | 37.46             | 54.00             | -16.54         | 27.68         | 3           | Horizontal | 132            | 1.94          | -       | 36.50      | 6.17       | 32.89      |

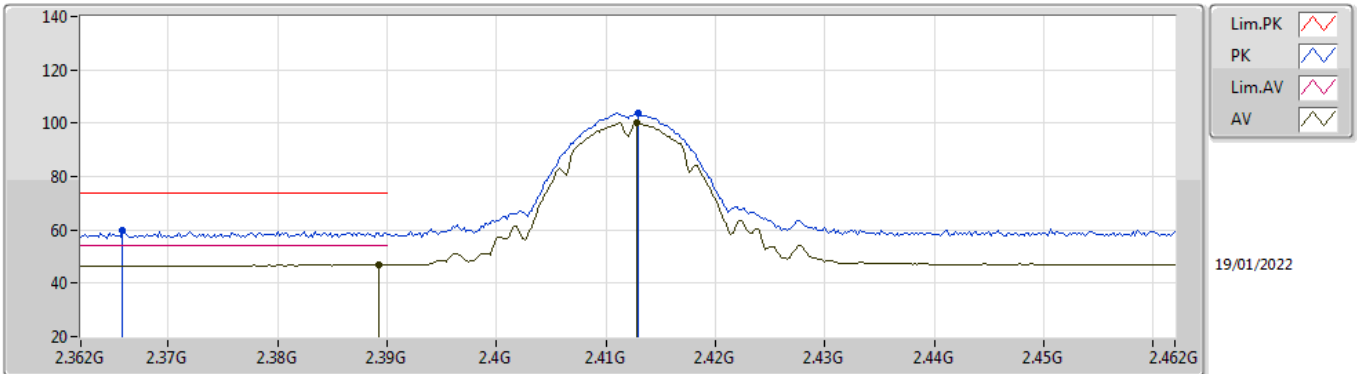


**Summary**

| 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            | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 802.11g_Nss1.(6Mbps)_1TX | Pass   | AV   | 2.4835G      | 53.99             | 54.00             | -0.01          | 3           | Horizontal | 183            | 1.65          | -        |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

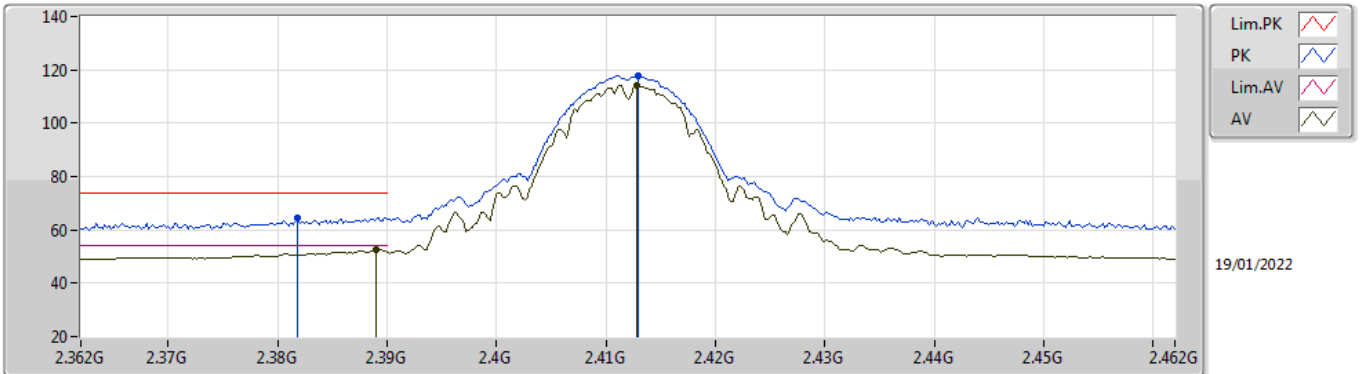


EUT Y\_1TX  
Setting 79  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3658G      | 59.86             | 74.00             | -14.14         | 28.75         | 3           | Vertical  | 175            | 1.87          | -       | 28.33      | 2.78       | -          |  |
| AV   | 2.3892G      | 46.93             | 54.00             | -7.07          | 15.76         | 3           | Vertical  | 175            | 1.87          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.413G       | 103.82            | Inf               | -Inf           | 72.61         | 3           | Vertical  | 175            | 1.87          | -       | 28.40      | 2.81       | -          |  |
| AV   | 2.4128G      | 100.03            | Inf               | -Inf           | 68.82         | 3           | Vertical  | 175            | 1.87          | -       | 28.40      | 2.81       | -          |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

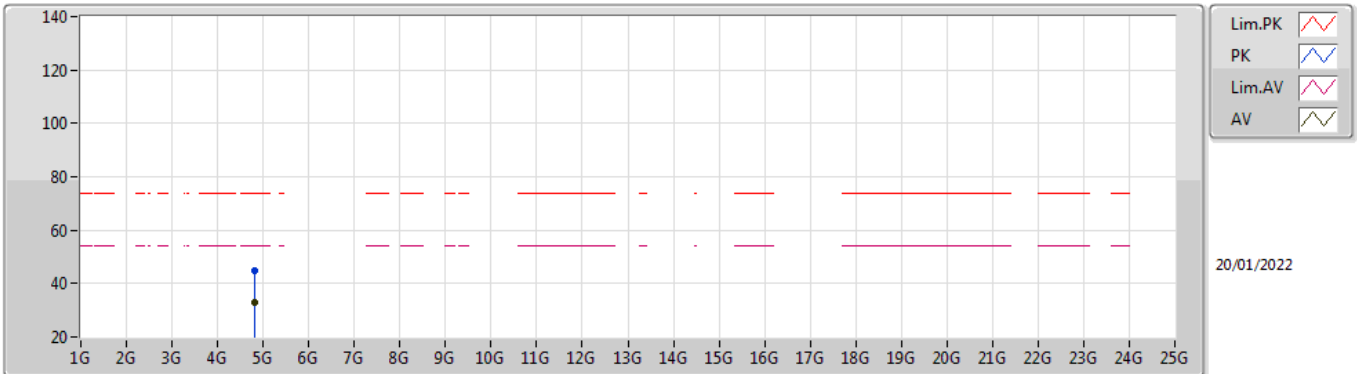


EUT Y\_1TX  
Setting 79  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3818G      | 64.59             | 74.00             | -9.41          | 33.44         | 3           | Horizontal | 186            | 1.68          | -       | 28.36      | 2.79       | -          |  |
| AV   | 2.389G       | 52.38             | 54.00             | -1.62          | 21.21         | 3           | Horizontal | 186            | 1.68          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.413G       | 117.90            | Inf               | -Inf           | 86.69         | 3           | Horizontal | 186            | 1.68          | -       | 28.40      | 2.81       | -          |  |
| AV   | 2.4128G      | 114.08            | Inf               | -Inf           | 82.87         | 3           | Horizontal | 186            | 1.68          | -       | 28.40      | 2.81       | -          |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

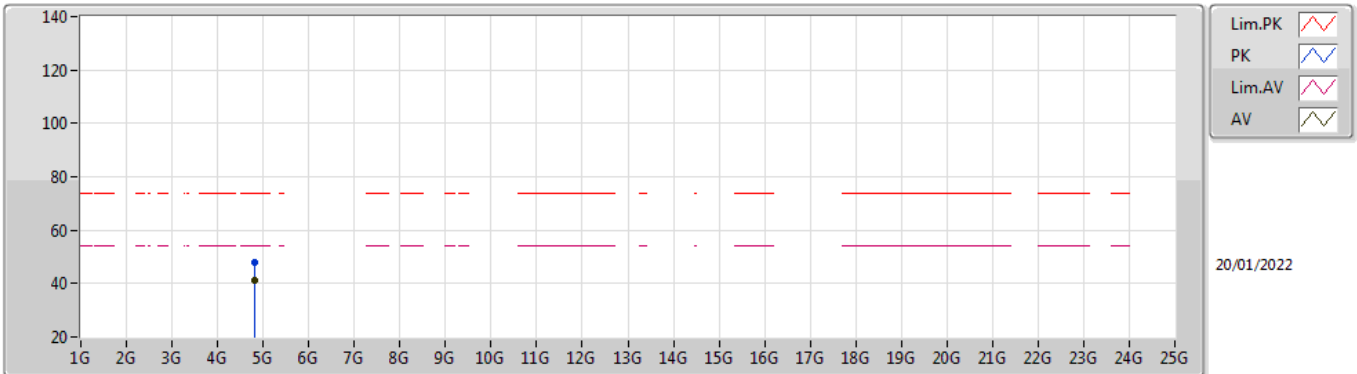


EUT Y\_1TX  
Setting 79  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.824G       | 32.80             | 54.00             | -21.20         | 27.12         | 3           | Vertical  | 201            | 1.96          | -       | 32.80      | 5.10       | 32.22      |
| PK   | 4.8239G      | 44.97             | 74.00             | -29.03         | 39.29         | 3           | Vertical  | 201            | 1.96          | -       | 32.80      | 5.10       | 32.22      |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

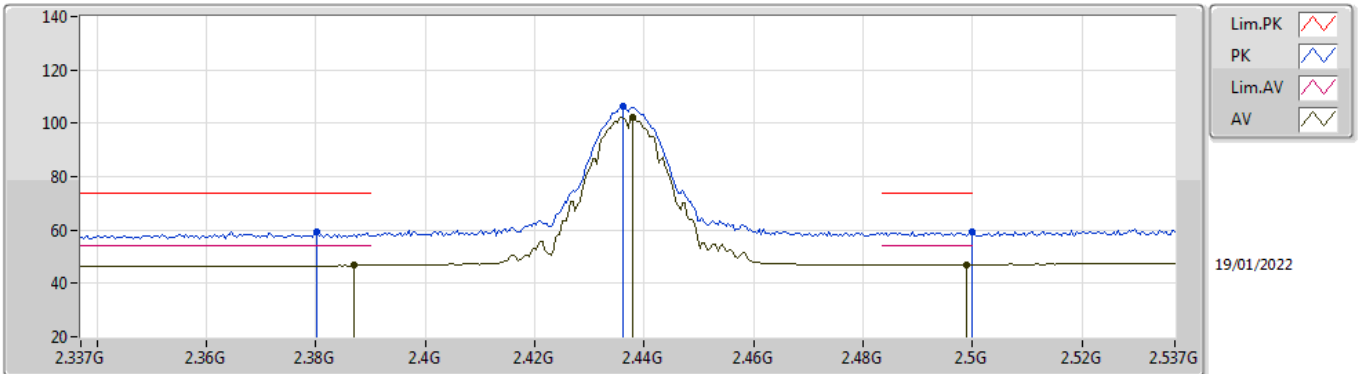


EUT Y\_1TX  
Setting 79  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.82398G     | 41.34             | 54.00             | -12.66         | 35.66         | 3           | Horizontal | 148            | 1.80          | -       | 32.80      | 5.10       | 32.22      |
| PK   | 4.82394G     | 48.15             | 74.00             | -25.85         | 42.47         | 3           | Horizontal | 148            | 1.80          | -       | 32.80      | 5.10       | 32.22      |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

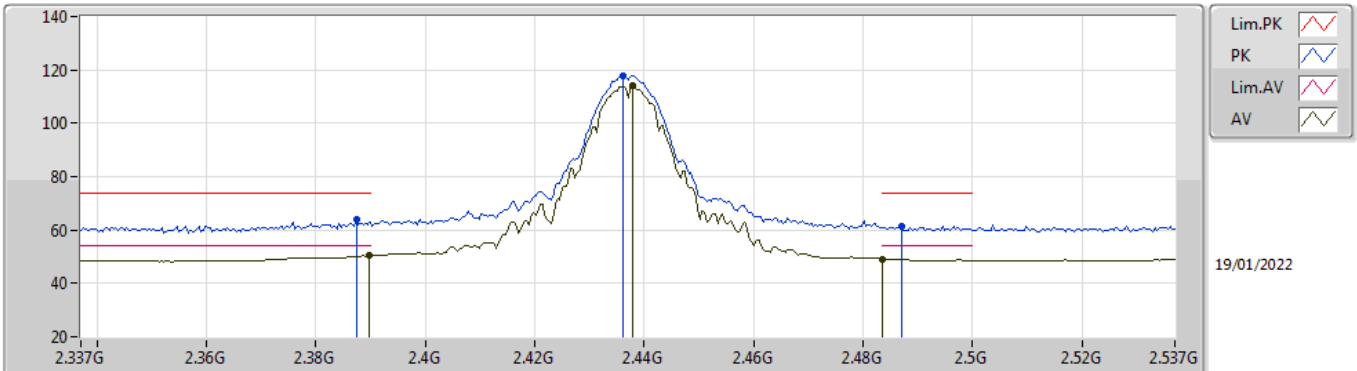


EUT\_Y\_1TX  
Setting 84  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3802G      | 59.38             | 74.00             | -14.62         | 28.23         | 3           | Vertical  | 175            | 2.10          | -       | 28.36      | 2.79       | -          |  |
| AV   | 2.387G       | 46.77             | 54.00             | -7.23          | 15.61         | 3           | Vertical  | 175            | 2.10          | -       | 28.37      | 2.79       | -          |  |
| PK   | 2.4362G      | 106.13            | Inf               | -Inf           | 74.89         | 3           | Vertical  | 175            | 2.10          | -       | 28.40      | 2.84       | -          |  |
| AV   | 2.4378G      | 102.17            | Inf               | -Inf           | 70.93         | 3           | Vertical  | 175            | 2.10          | -       | 28.40      | 2.84       | -          |  |
| PK   | 2.4998G      | 59.49             | 74.00             | -14.51         | 27.99         | 3           | Vertical  | 175            | 2.10          | -       | 28.60      | 2.90       | -          |  |
| AV   | 2.499G       | 47.04             | 54.00             | -6.96          | 15.54         | 3           | Vertical  | 175            | 2.10          | -       | 28.60      | 2.90       | -          |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

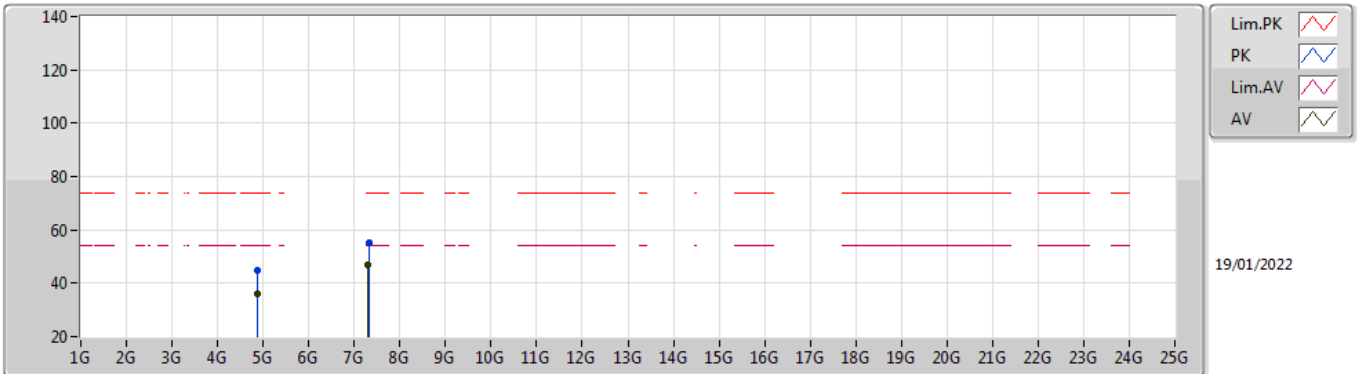


EUT\_Y\_1TX  
Setting 84  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3874G      | 64.01             | 74.00             | -9.99          | 32.85         | 3           | Horizontal | 191            | 1.83          | -       | 28.37      | 2.79       | -          |
| AV   | 2.3898G      | 50.46             | 54.00             | -3.54          | 19.29         | 3           | Horizontal | 191            | 1.83          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4362G      | 117.97            | Inf               | -Inf           | 86.73         | 3           | Horizontal | 191            | 1.83          | -       | 28.40      | 2.84       | -          |
| AV   | 2.4378G      | 114.00            | Inf               | -Inf           | 82.76         | 3           | Horizontal | 191            | 1.83          | -       | 28.40      | 2.84       | -          |
| PK   | 2.487G       | 61.29             | 74.00             | -12.71         | 29.85         | 3           | Horizontal | 191            | 1.83          | -       | 28.55      | 2.89       | -          |
| AV   | 2.4835G      | 49.22             | 54.00             | -4.78          | 17.81         | 3           | Horizontal | 191            | 1.83          | -       | 28.53      | 2.88       | -          |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

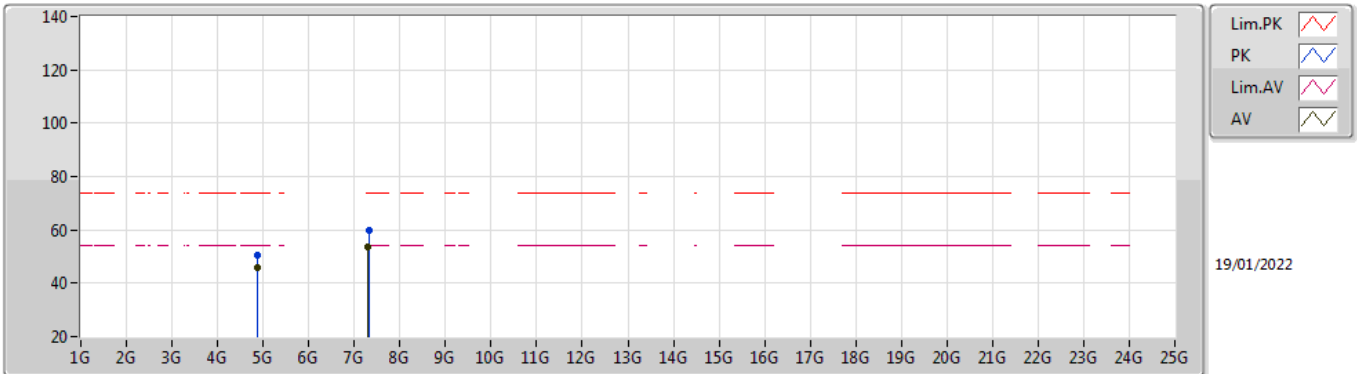


EUT Y\_1TX  
Setting 84  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.8741G      | 45.04             | 74.00             | -28.96         | 39.20         | 3           | Vertical  | 200            | 1.82          | -       | 32.95      | 5.10       | 32.21      |
| AV   | 4.87396G     | 35.95             | 54.00             | -18.05         | 30.11         | 3           | Vertical  | 200            | 1.82          | -       | 32.95      | 5.10       | 32.21      |
| PK   | 7.312G       | 55.13             | 74.00             | -18.87         | 45.37         | 3           | Vertical  | 172            | 1.80          | -       | 36.42      | 6.16       | 32.82      |
| AV   | 7.3102G      | 47.05             | 54.00             | -6.95          | 37.29         | 3           | Vertical  | 172            | 1.80          | -       | 36.42      | 6.16       | 32.82      |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

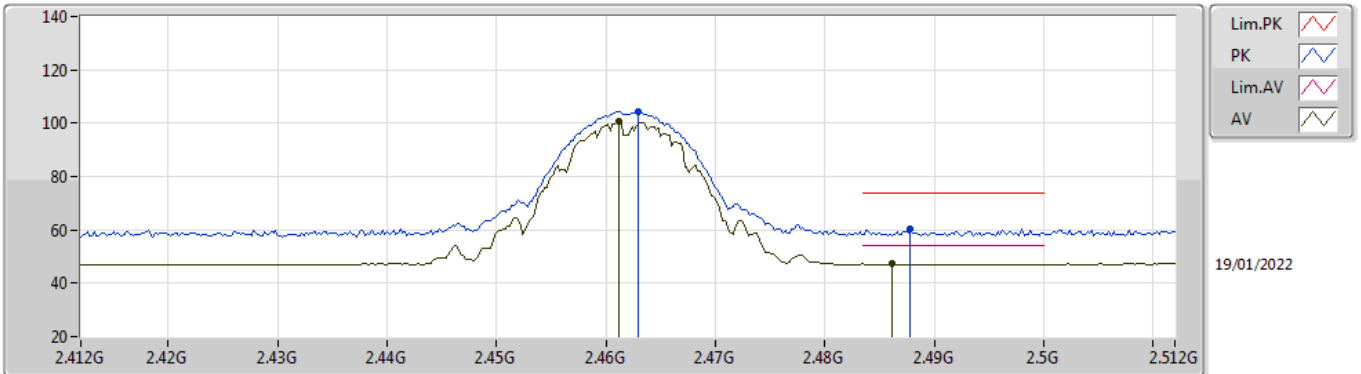


EUT Y\_1TX  
Setting 84  
02-B-C-5

| Type | Freq     | Level    | Limit    | Margin | Raw    | Dist | Condition  | Azimuth | Height | Comment | AF    | CL   | PA    |  |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|-------|------|-------|--|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dBuV) | (m)  |            | (°)     | (m)    |         | (dB)  | (dB) | (dB)  |  |
| PK   | 4.8739G  | 50.27    | 74.00    | -23.73 | 44.43  | 3    | Horizontal | 158     | 1.50   | -       | 32.95 | 5.10 | 32.21 |  |
| AV   | 4.87398G | 46.00    | 54.00    | -8.00  | 40.16  | 3    | Horizontal | 158     | 1.50   | -       | 32.95 | 5.10 | 32.21 |  |
| PK   | 7.3119G  | 59.71    | 74.00    | -14.29 | 49.95  | 3    | Horizontal | 176     | 1.77   | -       | 36.42 | 6.16 | 32.82 |  |
| AV   | 7.30972G | 53.81    | 54.00    | -0.19  | 44.06  | 3    | Horizontal | 176     | 1.77   | -       | 36.42 | 6.15 | 32.82 |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

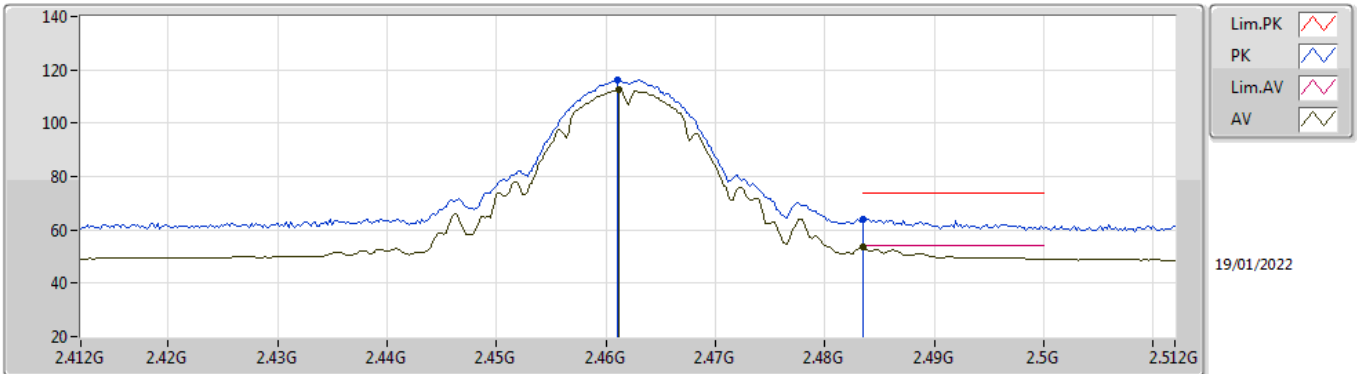


EUT Y\_1TX  
Setting 79  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.463G       | 104.43            | Inf               | -Inf           | 73.12         | 3           | Vertical  | 143            | 1.90          | -       | 28.45      | 2.86       | -          |  |
| AV   | 2.4612G      | 100.67            | Inf               | -Inf           | 69.37         | 3           | Vertical  | 143            | 1.90          | -       | 28.44      | 2.86       | -          |  |
| PK   | 2.4878G      | 60.17             | 74.00             | -13.83         | 28.73         | 3           | Vertical  | 143            | 1.90          | -       | 28.55      | 2.89       | -          |  |
| AV   | 2.4862G      | 47.19             | 54.00             | -6.81          | 15.76         | 3           | Vertical  | 143            | 1.90          | -       | 28.54      | 2.89       | -          |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

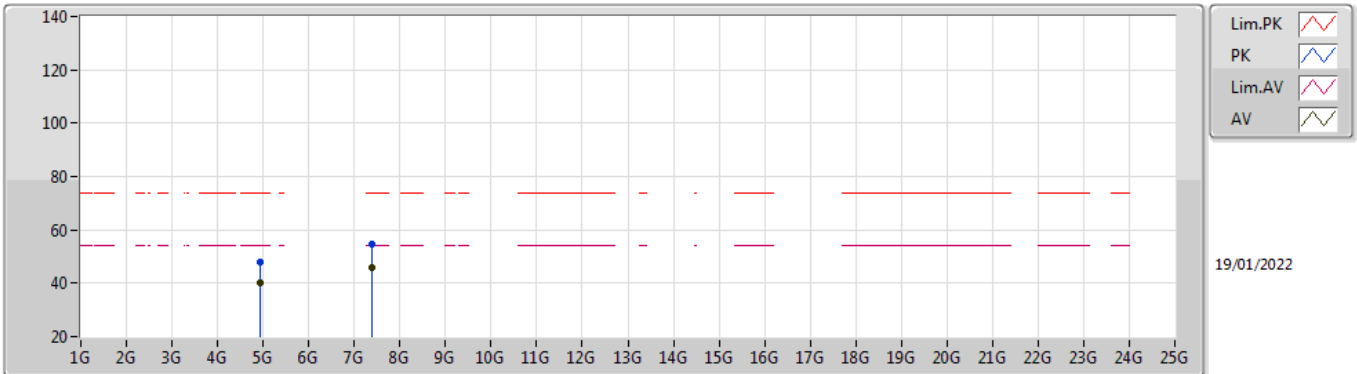


EUT\_Y\_1TX  
Setting 79  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.461G       | 116.19            | Inf               | -Inf           | 84.89         | 3           | Horizontal | 185            | 1.27          | -       | 28.44      | 2.86       | -          |  |
| AV   | 2.4612G      | 112.52            | Inf               | -Inf           | 81.22         | 3           | Horizontal | 185            | 1.27          | -       | 28.44      | 2.86       | -          |  |
| PK   | 2.4835G      | 64.16             | 74.00             | -9.84          | 32.75         | 3           | Horizontal | 185            | 1.27          | -       | 28.53      | 2.88       | -          |  |
| AV   | 2.4835G      | 53.78             | 54.00             | -0.22          | 22.37         | 3           | Horizontal | 185            | 1.27          | -       | 28.53      | 2.88       | -          |  |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

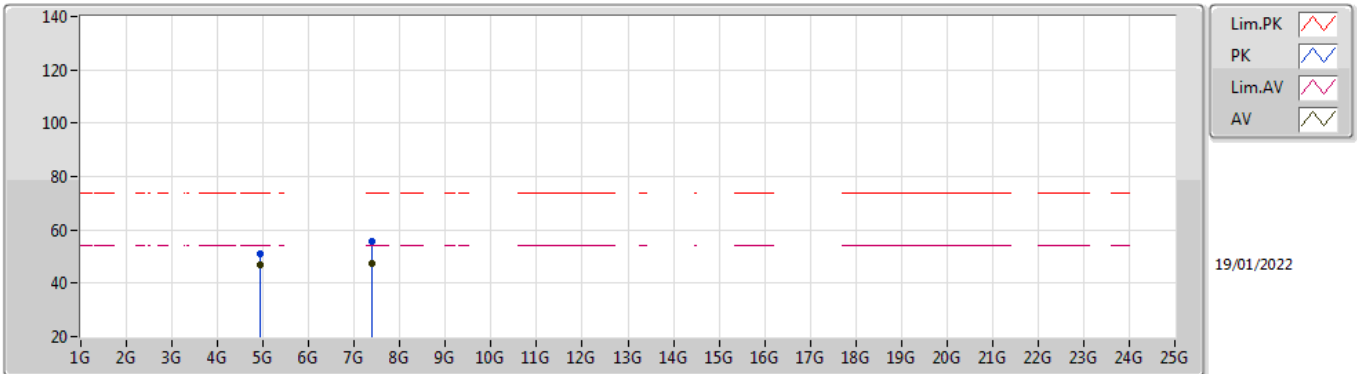


EUT Y\_1TX  
Setting 79  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.92384G     | 47.74             | 74.00             | -26.26         | 41.69         | 3           | Vertical  | 176            | 2.95          | -       | 33.14      | 5.10       | 32.19      |
| AV   | 4.92396G     | 39.94             | 54.00             | -14.06         | 33.89         | 3           | Vertical  | 176            | 2.95          | -       | 33.14      | 5.10       | 32.19      |
| PK   | 7.38506G     | 54.61             | 74.00             | -19.39         | 44.80         | 3           | Vertical  | 188            | 1.98          | -       | 36.57      | 6.19       | 32.95      |
| AV   | 7.38418G     | 45.65             | 54.00             | -8.35          | 35.84         | 3           | Vertical  | 188            | 1.98          | -       | 36.57      | 6.19       | 32.95      |

## 802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

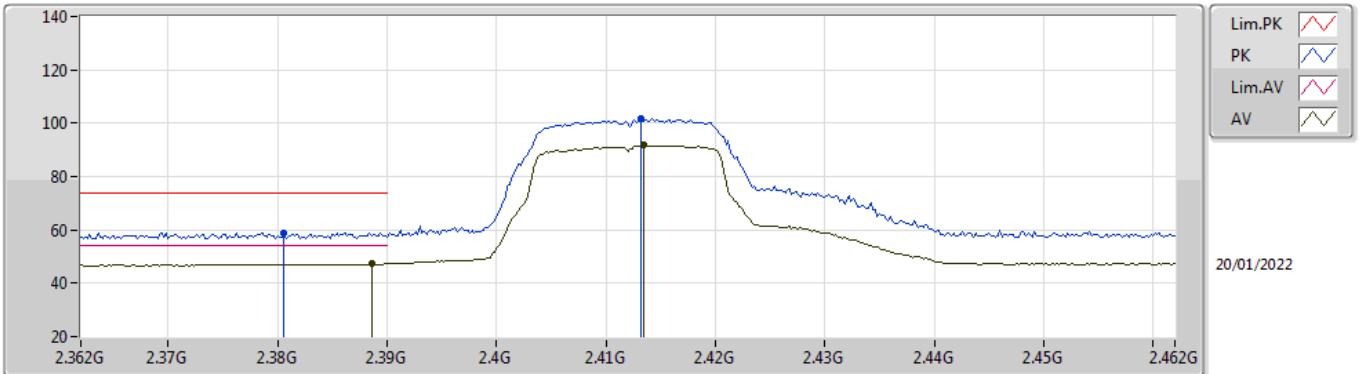


EUT Y\_1TX  
Setting 79  
02-B-C-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.92394G     | 51.09             | 74.00             | -22.91         | 45.04         | 3           | Horizontal | 157            | 1.72          | -       | 33.14      | 5.10       | 32.19      |
| AV   | 4.924G       | 47.13             | 54.00             | -6.87          | 41.08         | 3           | Horizontal | 157            | 1.72          | -       | 33.14      | 5.10       | 32.19      |
| PK   | 7.38698G     | 55.50             | 74.00             | -18.50         | 45.69         | 3           | Horizontal | 174            | 1.80          | -       | 36.57      | 6.19       | 32.95      |
| AV   | 7.38666G     | 47.31             | 54.00             | -6.69          | 37.50         | 3           | Horizontal | 174            | 1.80          | -       | 36.57      | 6.19       | 32.95      |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

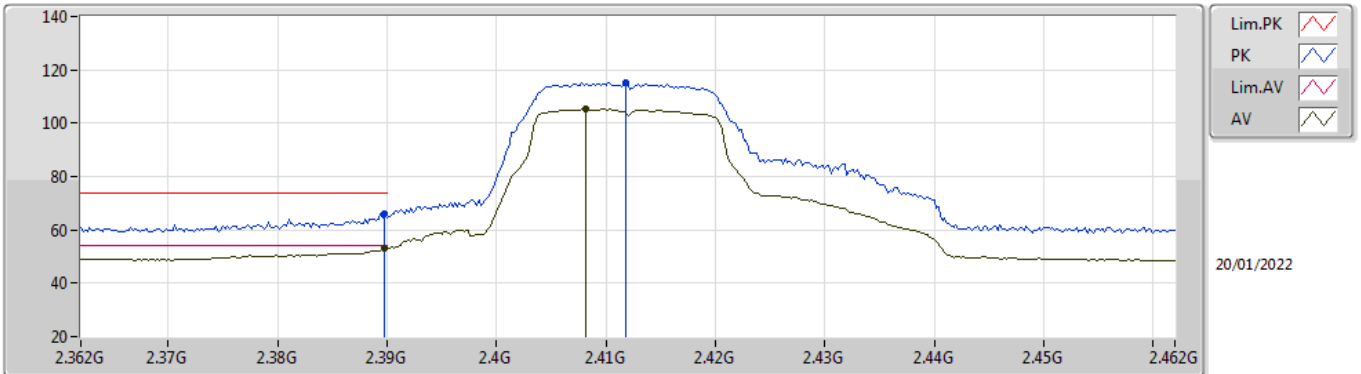


EUT Y\_1TX  
Setting 70  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3806G      | 58.97             | 74.00             | -15.03         | 27.82         | 3           | Vertical  | 172            | 1.88          | -       | 28.36      | 2.79       | -          |
| AV   | 2.3886G      | 47.38             | 54.00             | -6.62          | 16.21         | 3           | Vertical  | 172            | 1.88          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4132G      | 101.93            | Inf               | -Inf           | 70.72         | 3           | Vertical  | 172            | 1.88          | -       | 28.40      | 2.81       | -          |
| AV   | 2.4134G      | 91.82             | Inf               | -Inf           | 60.61         | 3           | Vertical  | 172            | 1.88          | -       | 28.40      | 2.81       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

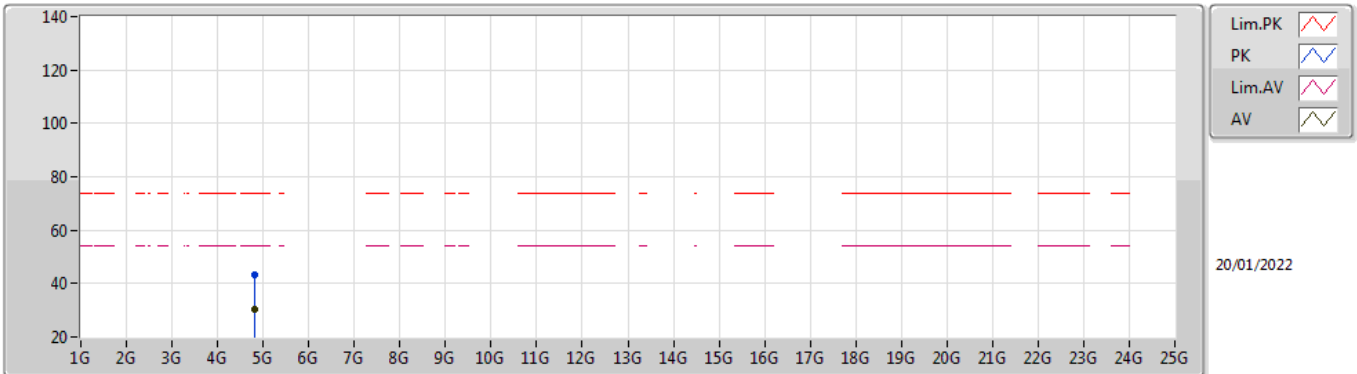


EUT Y\_1TX  
Setting 70  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3898G      | 66.07             | 74.00             | -7.93          | 34.90         | 3           | Horizontal | 179            | 1.89          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.3898G      | 52.94             | 54.00             | -1.06          | 21.77         | 3           | Horizontal | 179            | 1.89          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.4118G      | 115.38            | Inf               | -Inf           | 84.17         | 3           | Horizontal | 179            | 1.89          | -       | 28.40      | 2.81       | -          |  |
| AV   | 2.4082G      | 105.25            | Inf               | -Inf           | 74.04         | 3           | Horizontal | 179            | 1.89          | -       | 28.40      | 2.81       | -          |  |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

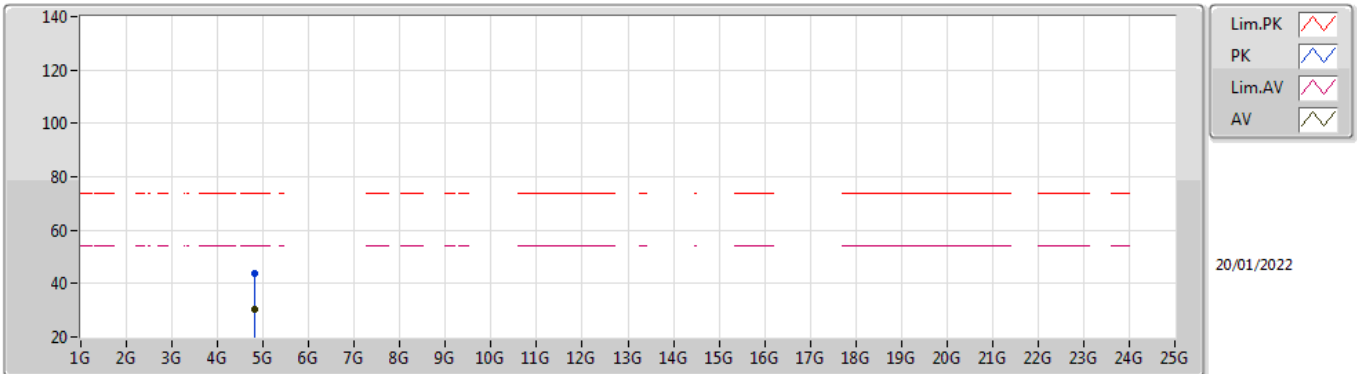


EUT Y\_1TX  
Setting 70  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.82446G     | 43.49             | 74.00             | -30.51         | 37.81         | 3           | Vertical  | 179            | 2.07          | -       | 32.80      | 5.10       | 32.22      |  |
| AV   | 4.827G       | 30.15             | 54.00             | -23.85         | 24.46         | 3           | Vertical  | 179            | 2.07          | -       | 32.81      | 5.10       | 32.22      |  |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

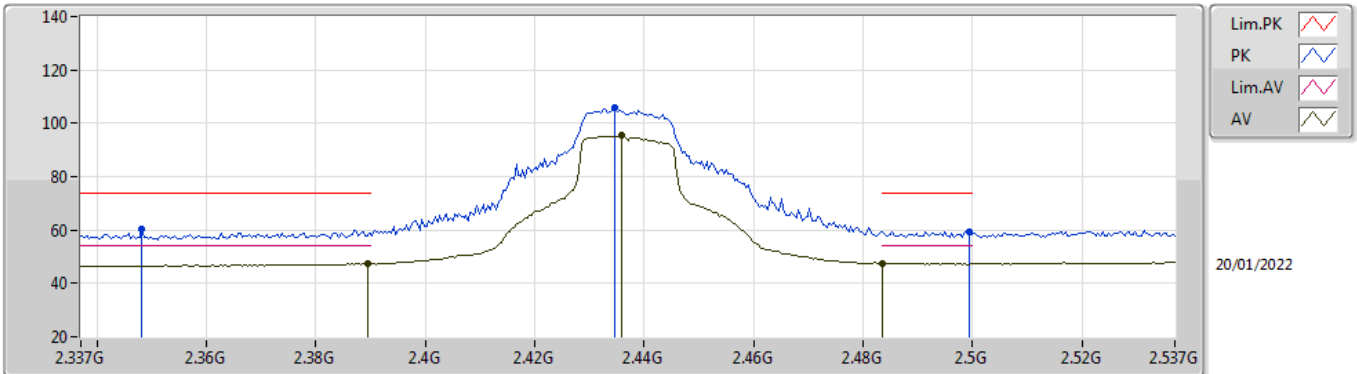


EUT Y\_1TX  
Setting 70  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.82612G     | 43.71             | 74.00             | -30.29         | 38.03         | 3           | Horizontal | 30             | 1.50          | -       | 32.80      | 5.10       | 32.22      |  |
| AV   | 4.8264G      | 30.30             | 54.00             | -23.70         | 24.61         | 3           | Horizontal | 30             | 1.50          | -       | 32.81      | 5.10       | 32.22      |  |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

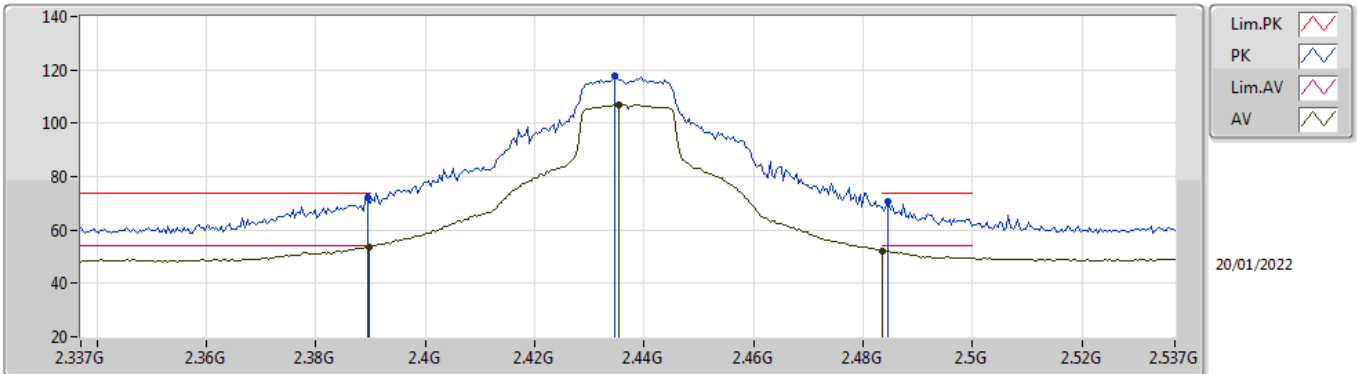


EUT\_Y\_1TX  
Setting 80  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3482G      | 60.33             | 74.00             | -13.67         | 29.27         | 3           | Vertical  | 170            | 1.80          | -       | 28.29      | 2.77       | -          |
| AV   | 2.3894G      | 47.32             | 54.00             | -6.68          | 16.15         | 3           | Vertical  | 170            | 1.80          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4346G      | 106.08            | Inf               | -Inf           | 74.85         | 3           | Vertical  | 170            | 1.80          | -       | 28.40      | 2.83       | -          |
| AV   | 2.4358G      | 95.29             | Inf               | -Inf           | 64.05         | 3           | Vertical  | 170            | 1.80          | -       | 28.40      | 2.84       | -          |
| PK   | 2.4994G      | 59.52             | 74.00             | -14.48         | 28.02         | 3           | Vertical  | 170            | 1.80          | -       | 28.60      | 2.90       | -          |
| AV   | 2.4835G      | 47.56             | 54.00             | -6.44          | 16.15         | 3           | Vertical  | 170            | 1.80          | -       | 28.53      | 2.88       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

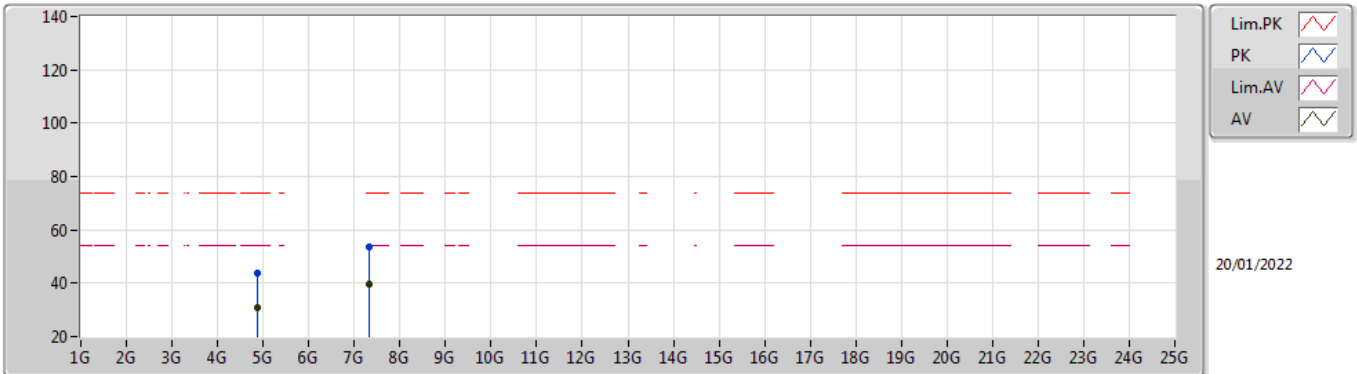


EUT\_Y\_1TX  
Setting 80  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3894G      | 72.07             | 74.00             | -1.93          | 40.90         | 3           | Horizontal | 191            | 1.83          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3898G      | 53.73             | 54.00             | -0.27          | 22.56         | 3           | Horizontal | 191            | 1.83          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4346G      | 117.94            | Inf               | -Inf           | 86.71         | 3           | Horizontal | 191            | 1.83          | -       | 28.40      | 2.83       | -          |
| AV   | 2.4354G      | 106.93            | Inf               | -Inf           | 75.69         | 3           | Horizontal | 191            | 1.83          | -       | 28.40      | 2.84       | -          |
| PK   | 2.4846G      | 70.75             | 74.00             | -3.25          | 39.33         | 3           | Horizontal | 191            | 1.83          | -       | 28.54      | 2.88       | -          |
| AV   | 2.4835G      | 52.27             | 54.00             | -1.73          | 20.86         | 3           | Horizontal | 191            | 1.83          | -       | 28.53      | 2.88       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

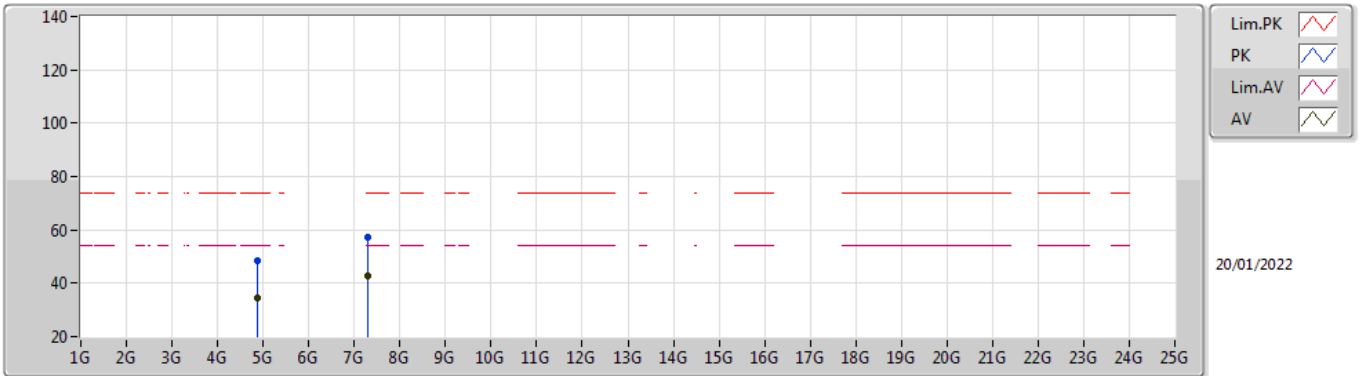


EUT Y\_1TX  
Setting 80  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.88416G     | 43.78             | 74.00             | -30.22         | 37.91         | 3           | Vertical  | 201            | 1.80          | -       | 32.97      | 5.10       | 32.20      |
| AV   | 4.8744G      | 30.91             | 54.00             | -23.09         | 25.07         | 3           | Vertical  | 201            | 1.80          | -       | 32.95      | 5.10       | 32.21      |
| PK   | 7.31612G     | 53.46             | 74.00             | -20.54         | 43.70         | 3           | Vertical  | 173            | 1.79          | -       | 36.43      | 6.16       | 32.83      |
| AV   | 7.31964G     | 39.44             | 54.00             | -14.56         | 29.68         | 3           | Vertical  | 173            | 1.79          | -       | 36.44      | 6.16       | 32.84      |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

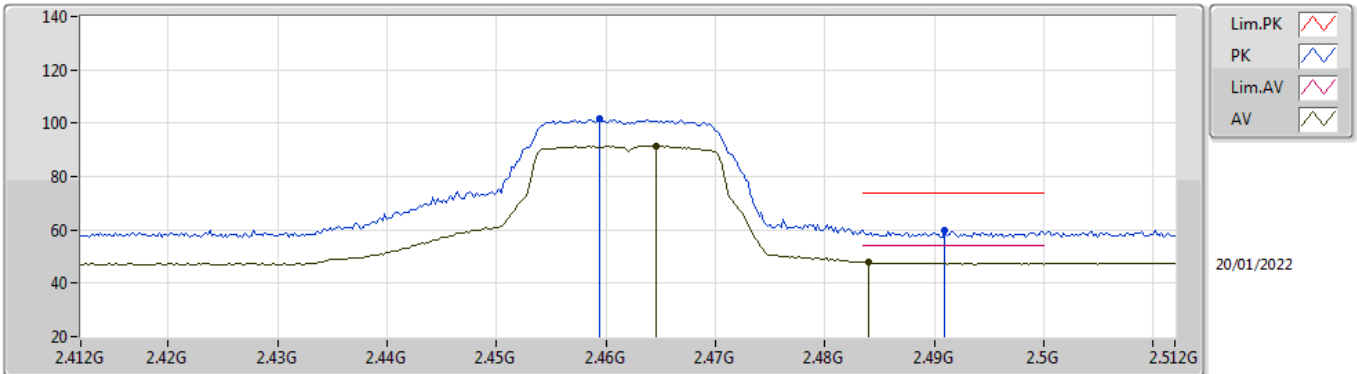


EUT Y\_1TX  
Setting 80  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.86568G     | 48.35             | 74.00             | -25.65         | 42.53         | 3           | Horizontal | 157            | 1.51          | -       | 32.93      | 5.10       | 32.21      |
| AV   | 4.87272G     | 34.69             | 54.00             | -19.31         | 28.85         | 3           | Horizontal | 157            | 1.51          | -       | 32.95      | 5.10       | 32.21      |
| PK   | 7.30756G     | 57.12             | 74.00             | -16.88         | 47.37         | 3           | Horizontal | 177            | 1.77          | -       | 36.42      | 6.15       | 32.82      |
| AV   | 7.30948G     | 42.55             | 54.00             | -11.45         | 32.80         | 3           | Horizontal | 177            | 1.77          | -       | 36.42      | 6.15       | 32.82      |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

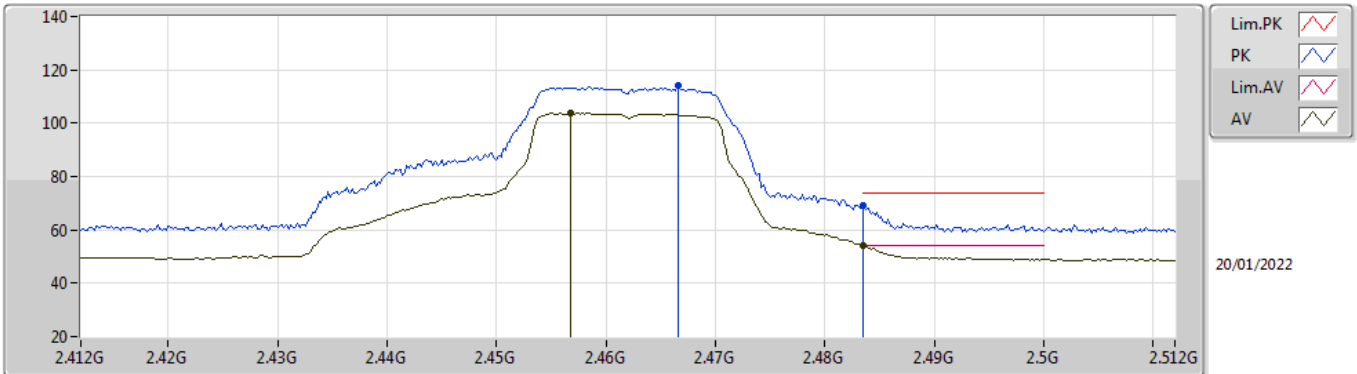


EUT\_Y\_1TX  
Setting 69  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.4594G      | 101.54            | Inf               | -Inf           | 70.24         | 3           | Vertical  | 141            | 2.02          | -       | 28.44      | 2.86       | -          |
| AV   | 2.4646G      | 91.49             | Inf               | -Inf           | 60.17         | 3           | Vertical  | 141            | 2.02          | -       | 28.46      | 2.86       | -          |
| PK   | 2.491G       | 59.73             | 74.00             | -14.27         | 28.28         | 3           | Vertical  | 141            | 2.02          | -       | 28.56      | 2.89       | -          |
| AV   | 2.484G       | 47.80             | 54.00             | -6.20          | 16.38         | 3           | Vertical  | 141            | 2.02          | -       | 28.54      | 2.88       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

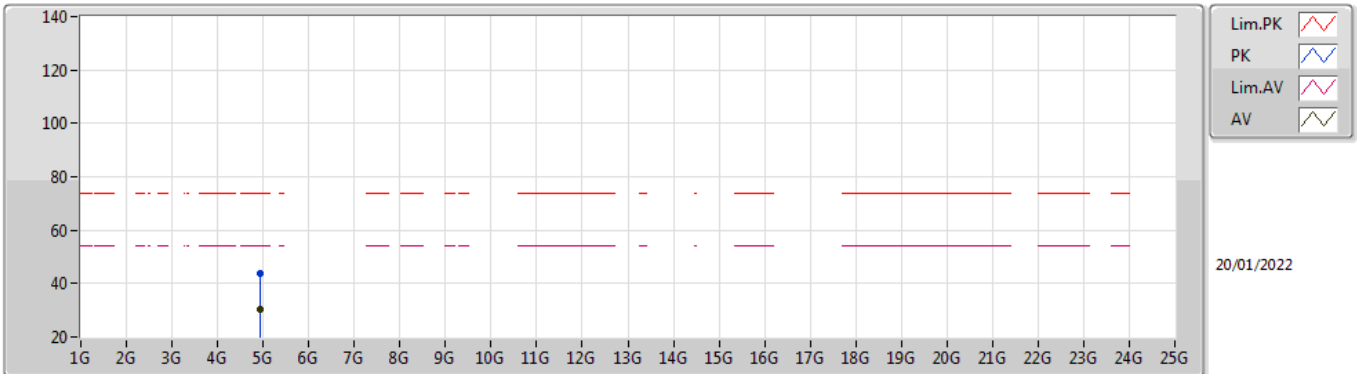


EUT Y\_1TX  
Setting 69  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.4666G      | 114.07            | Inf               | -Inf           | 82.73         | 3           | Horizontal | 183            | 1.65          | -       | 28.47      | 2.87       | -          |
| AV   | 2.4568G      | 103.84            | Inf               | -Inf           | 72.55         | 3           | Horizontal | 183            | 1.65          | -       | 28.43      | 2.86       | -          |
| PK   | 2.4835G      | 69.05             | 74.00             | -4.95          | 37.64         | 3           | Horizontal | 183            | 1.65          | -       | 28.53      | 2.88       | -          |
| AV   | 2.4835G      | 53.99             | 54.00             | -0.01          | 22.58         | 3           | Horizontal | 183            | 1.65          | -       | 28.53      | 2.88       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

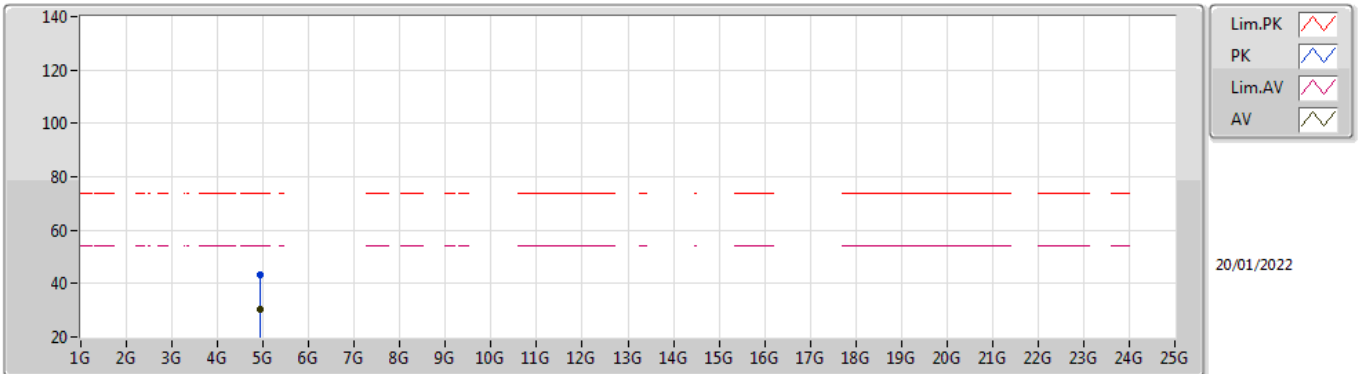


EUT Y\_1TX  
Setting 69  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.92536G     | 43.62             | 74.00             | -30.38         | 37.56         | 3           | Vertical  | 102            | 2.75          | -       | 33.15      | 5.10       | 32.19      |
| AV   | 4.92382G     | 30.19             | 54.00             | -23.81         | 24.14         | 3           | Vertical  | 102            | 2.75          | -       | 33.14      | 5.10       | 32.19      |

## 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

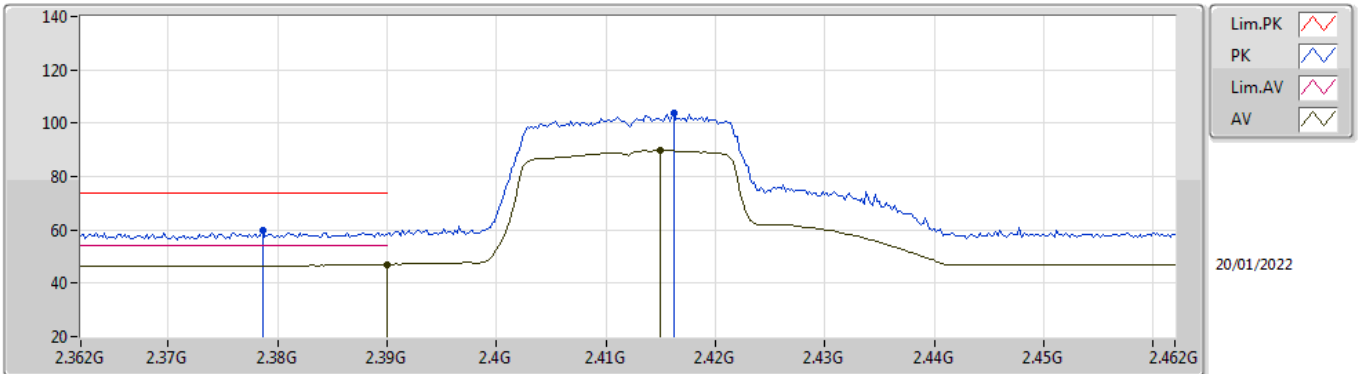


EUT Y\_1TX  
Setting 69  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.9219G      | 43.50             | 74.00             | -30.50         | 37.46         | 3           | Horizontal | 14             | 1.55          | -       | 33.13      | 5.10       | 32.19      |
| AV   | 4.92884G     | 30.27             | 54.00             | -23.73         | 24.19         | 3           | Horizontal | 14             | 1.55          | -       | 33.17      | 5.10       | 32.19      |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX

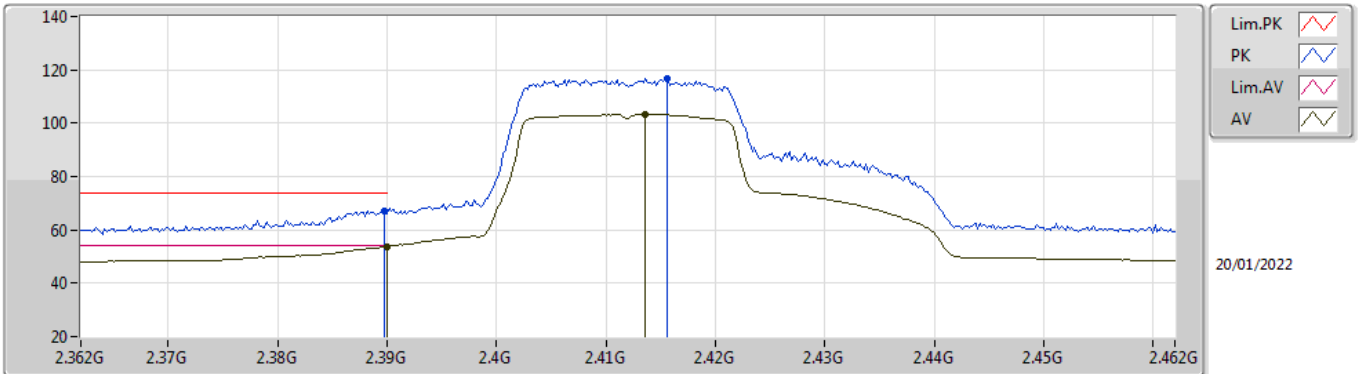


EUT Y\_1TX  
Setting 70  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3786G      | 59.66             | 74.00             | -14.34         | 28.51         | 3           | Vertical  | 173            | 1.91          | -       | 28.36      | 2.79       | -          |  |
| AV   | 2.39G        | 47.14             | 54.00             | -6.86          | 15.97         | 3           | Vertical  | 173            | 1.91          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.4162G      | 103.64            | Inf               | -Inf           | 72.42         | 3           | Vertical  | 173            | 1.91          | -       | 28.40      | 2.82       | -          |  |
| AV   | 2.415G       | 89.75             | Inf               | -Inf           | 58.54         | 3           | Vertical  | 173            | 1.91          | -       | 28.40      | 2.81       | -          |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX

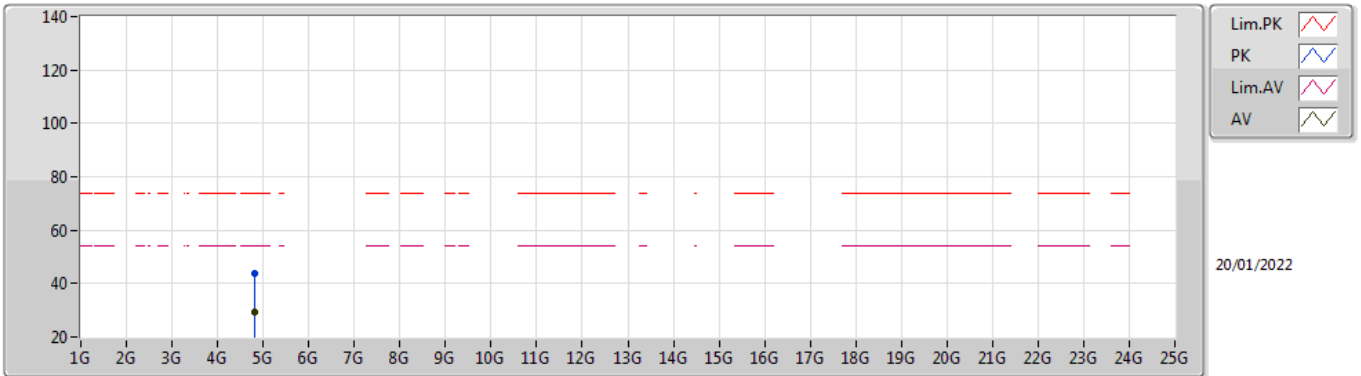


EUT Y\_1TX  
Setting 70  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.3898G      | 67.26             | 74.00             | -6.74          | 36.09         | 3           | Horizontal | 184            | 1.67          | -       | 28.38      | 2.79       | -          |  |
| AV   | 2.39G        | 53.63             | 54.00             | -0.37          | 22.46         | 3           | Horizontal | 184            | 1.67          | -       | 28.38      | 2.79       | -          |  |
| PK   | 2.4156G      | 116.66            | Inf               | -Inf           | 85.44         | 3           | Horizontal | 184            | 1.67          | -       | 28.40      | 2.82       | -          |  |
| AV   | 2.4136G      | 103.27            | Inf               | -Inf           | 72.06         | 3           | Horizontal | 184            | 1.67          | -       | 28.40      | 2.81       | -          |  |

## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

### 2412MHz\_TX

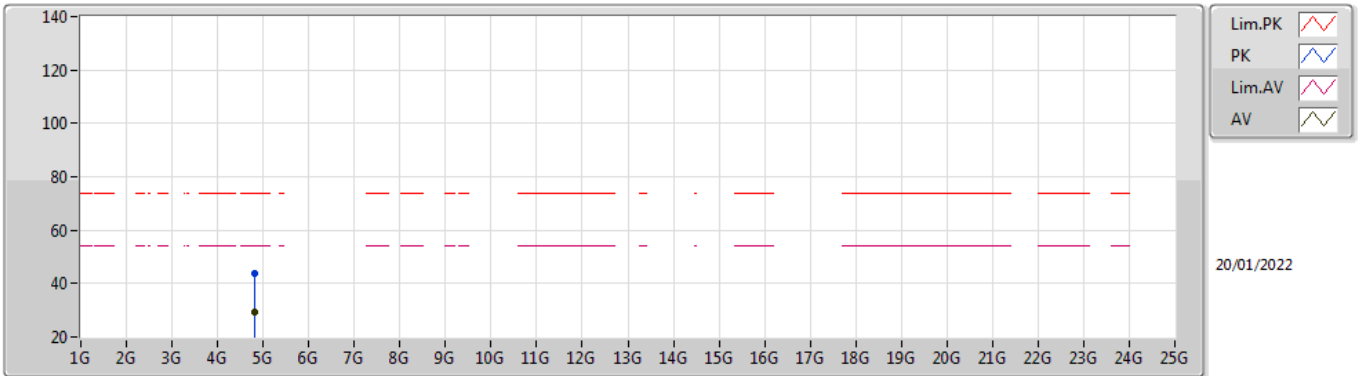


EUT Y\_1TX  
Setting 70  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.82686G     | 43.61             | 74.00             | -30.39         | 37.92         | 3           | Vertical  | 170            | 2.13          | -       | 32.81      | 5.10       | 32.22      |  |
| AV   | 4.82366G     | 29.56             | 54.00             | -24.44         | 23.89         | 3           | Vertical  | 170            | 2.13          | -       | 32.79      | 5.10       | 32.22      |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX

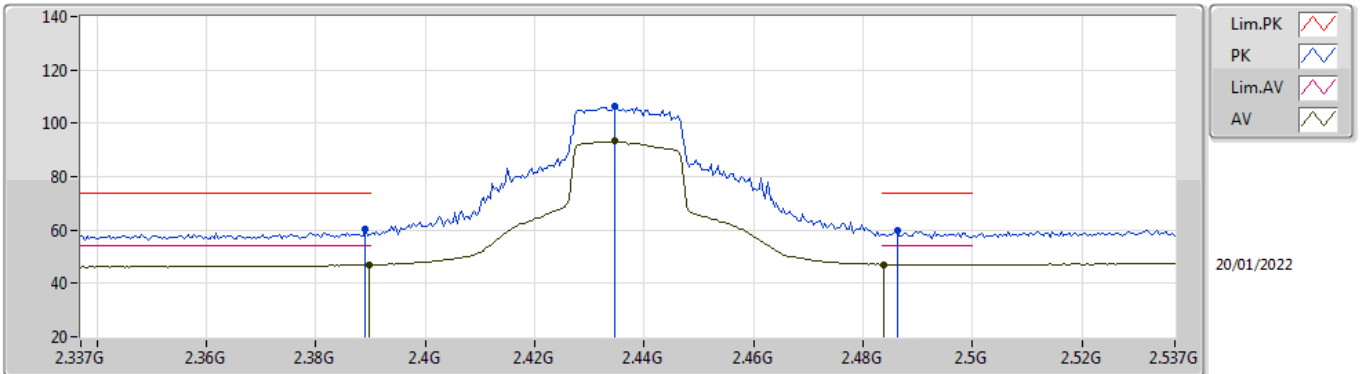


EUT Y\_1TX  
Setting 70  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.82168G     | 43.79             | 74.00             | -30.21         | 38.12         | 3           | Horizontal | 240            | 2.73          | -       | 32.79      | 5.10       | 32.22      |
| AV   | 4.82266G     | 29.52             | 54.00             | -24.48         | 23.85         | 3           | Horizontal | 240            | 2.73          | -       | 32.79      | 5.10       | 32.22      |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

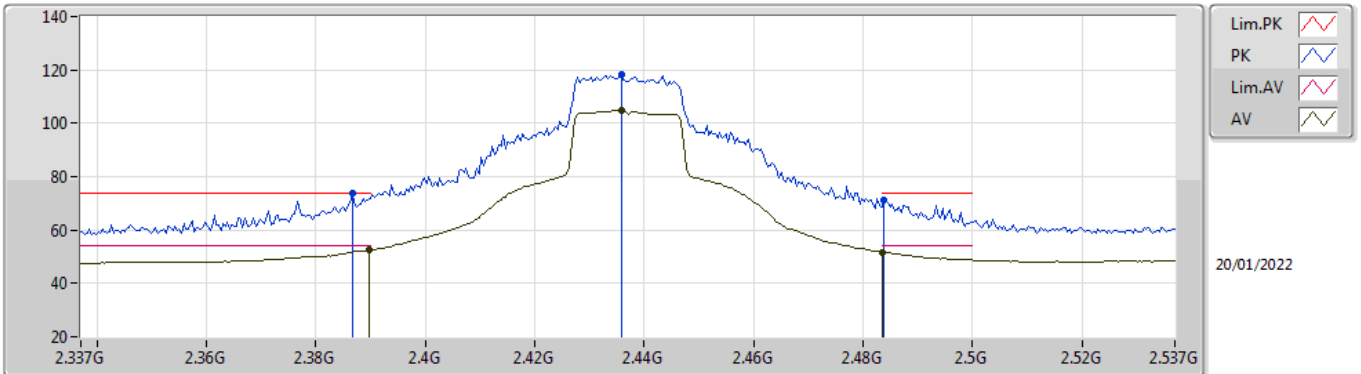


EUT\_Y\_1TX  
Setting 76  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.389G       | 60.35             | 74.00             | -13.65         | 29.18         | 3           | Vertical  | 171            | 1.80          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3898G      | 46.97             | 54.00             | -7.03          | 15.80         | 3           | Vertical  | 171            | 1.80          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4346G      | 106.25            | Inf               | -Inf           | 75.02         | 3           | Vertical  | 171            | 1.80          | -       | 28.40      | 2.83       | -          |
| AV   | 2.4346G      | 93.28             | Inf               | -Inf           | 62.05         | 3           | Vertical  | 171            | 1.80          | -       | 28.40      | 2.83       | -          |
| PK   | 2.4862G      | 59.93             | 74.00             | -14.07         | 28.50         | 3           | Vertical  | 171            | 1.80          | -       | 28.54      | 2.89       | -          |
| AV   | 2.4838G      | 47.12             | 54.00             | -6.88          | 15.70         | 3           | Vertical  | 171            | 1.80          | -       | 28.54      | 2.88       | -          |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

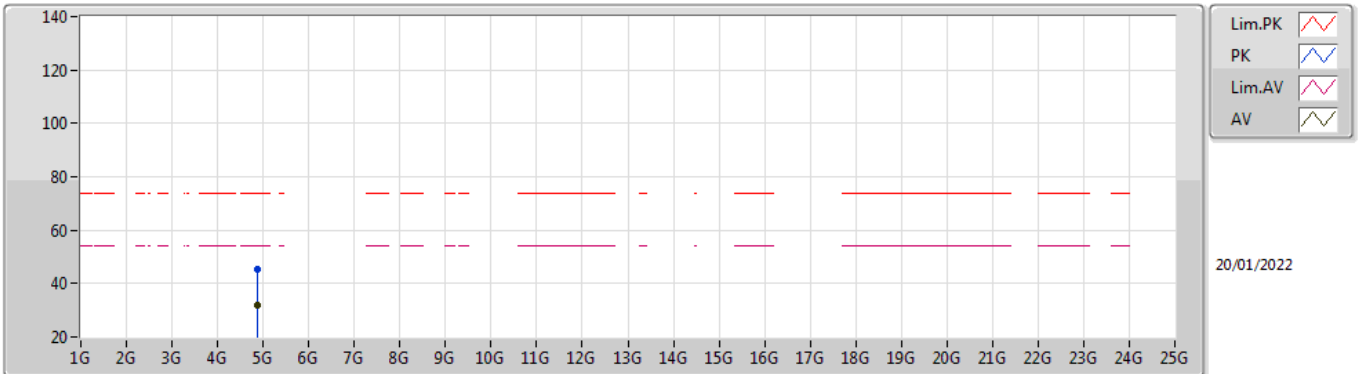


EUT\_Y\_1TX  
Setting 76  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3866G      | 73.95             | 74.00             | -0.05          | 42.79         | 3           | Horizontal | 186            | 1.49          | -       | 28.37      | 2.79       | -          |
| AV   | 2.3898G      | 52.45             | 54.00             | -1.55          | 21.28         | 3           | Horizontal | 186            | 1.49          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4358G      | 118.51            | Inf               | -Inf           | 87.27         | 3           | Horizontal | 186            | 1.49          | -       | 28.40      | 2.84       | -          |
| AV   | 2.4358G      | 104.64            | Inf               | -Inf           | 73.40         | 3           | Horizontal | 186            | 1.49          | -       | 28.40      | 2.84       | -          |
| PK   | 2.4838G      | 71.19             | 74.00             | -2.81          | 39.77         | 3           | Horizontal | 186            | 1.49          | -       | 28.54      | 2.88       | -          |
| AV   | 2.4835G      | 51.68             | 54.00             | -2.32          | 20.27         | 3           | Horizontal | 186            | 1.49          | -       | 28.53      | 2.88       | -          |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

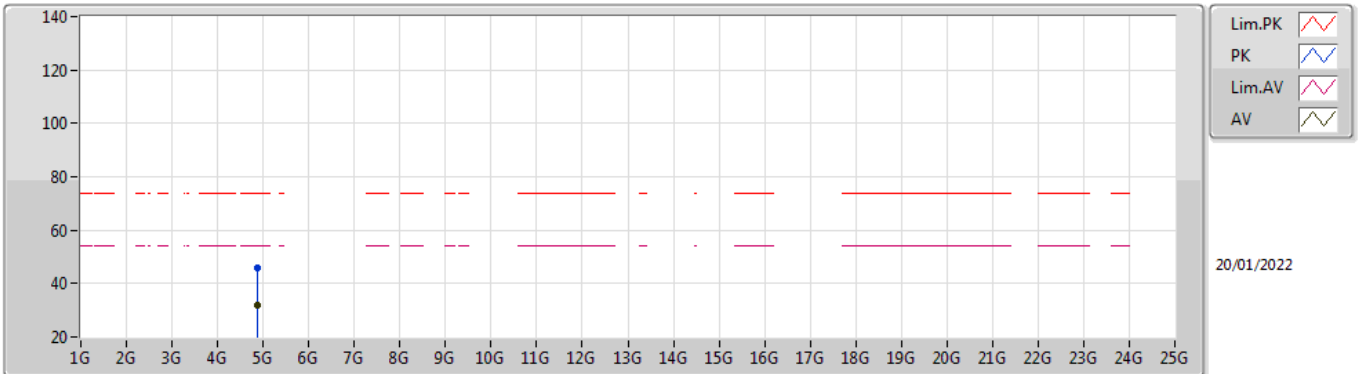


EUT Y\_1TX  
Setting 76  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.8755G      | 45.36             | 74.00             | -28.64         | 39.51         | 3           | Vertical  | 340            | 1.52          | -       | 32.95      | 5.10       | 32.20      |  |
| AV   | 4.87338G     | 31.88             | 54.00             | -22.12         | 26.04         | 3           | Vertical  | 340            | 1.52          | -       | 32.95      | 5.10       | 32.21      |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

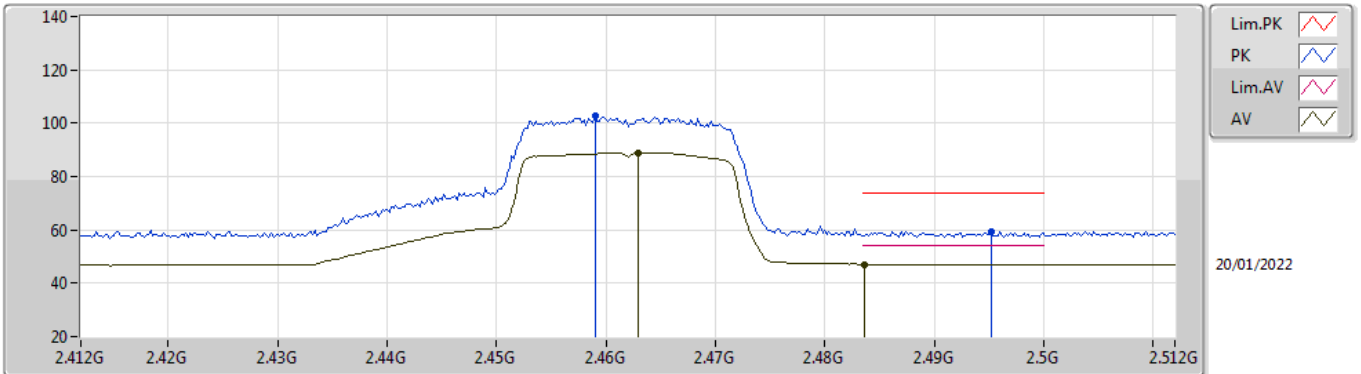


EUT Y\_1TX  
Setting 76  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.87318G     | 45.74             | 74.00             | -28.26         | 39.90         | 3           | Horizontal | 138            | 2.92          | -       | 32.95      | 5.10       | 32.21      |  |
| AV   | 4.87342G     | 31.89             | 54.00             | -22.11         | 26.05         | 3           | Horizontal | 138            | 2.92          | -       | 32.95      | 5.10       | 32.21      |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX

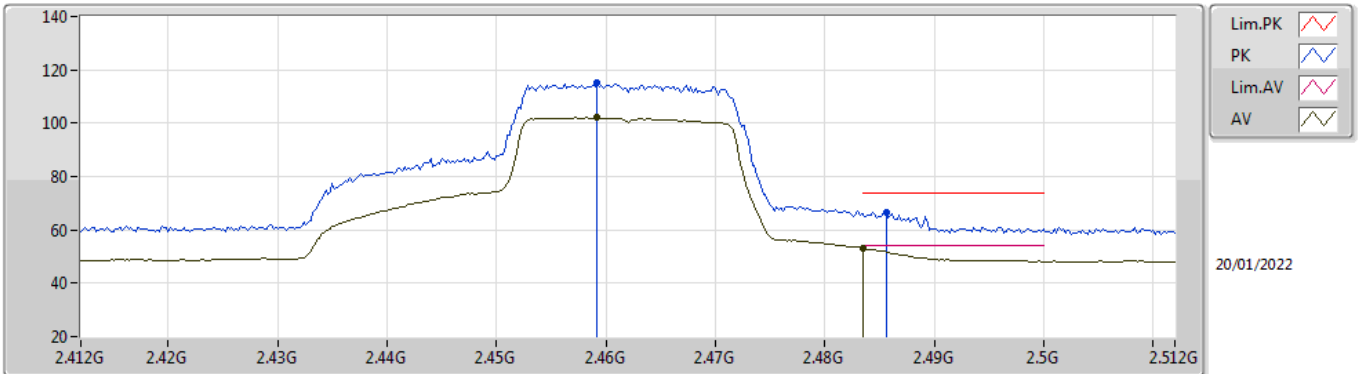


EUT Y\_1TX  
Setting 68  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 2.459G       | 102.72            | Inf               | -Inf           | 71.42         | 3           | Vertical  | 144            | 1.88          | -       | 28.44      | 2.86       | -          |  |
| AV   | 2.463G       | 88.90             | Inf               | -Inf           | 57.59         | 3           | Vertical  | 144            | 1.88          | -       | 28.45      | 2.86       | -          |  |
| PK   | 2.4952G      | 59.31             | 74.00             | -14.69         | 27.83         | 3           | Vertical  | 144            | 1.88          | -       | 28.58      | 2.90       | -          |  |
| AV   | 2.4836G      | 47.12             | 54.00             | -6.88          | 15.71         | 3           | Vertical  | 144            | 1.88          | -       | 28.53      | 2.88       | -          |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX

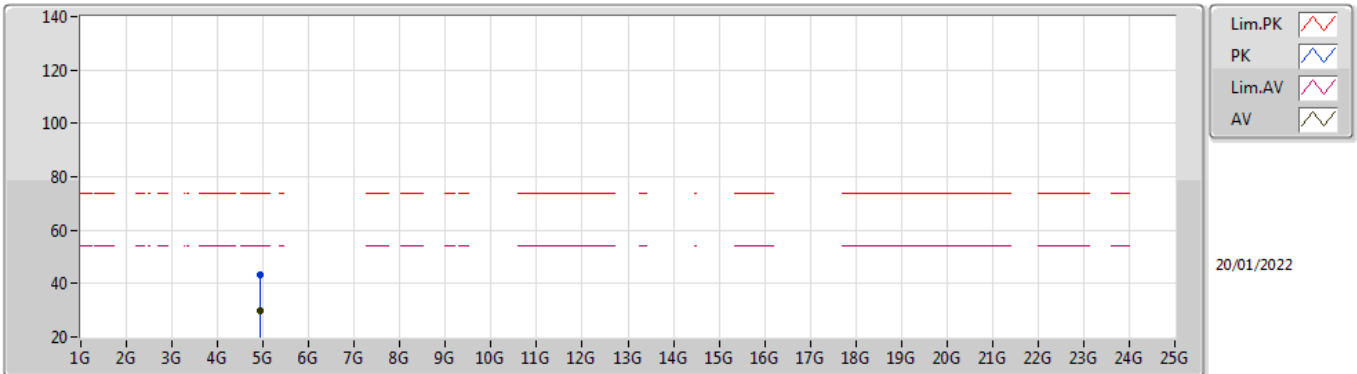


EUT Y\_1TX  
Setting 68  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.4592G      | 114.98            | Inf               | -Inf           | 83.68         | 3           | Horizontal | 185            | 1.29          | -       | 28.44      | 2.86       | -          |
| AV   | 2.4592G      | 102.09            | Inf               | -Inf           | 70.79         | 3           | Horizontal | 185            | 1.29          | -       | 28.44      | 2.86       | -          |
| PK   | 2.4856G      | 66.51             | 74.00             | -7.49          | 35.08         | 3           | Horizontal | 185            | 1.29          | -       | 28.54      | 2.89       | -          |
| AV   | 2.4835G      | 53.13             | 54.00             | -0.87          | 21.72         | 3           | Horizontal | 185            | 1.29          | -       | 28.53      | 2.88       | -          |

## 802.11ax HEW20\_Nss1,(MCS0)\_1TX

### 2462MHz\_TX

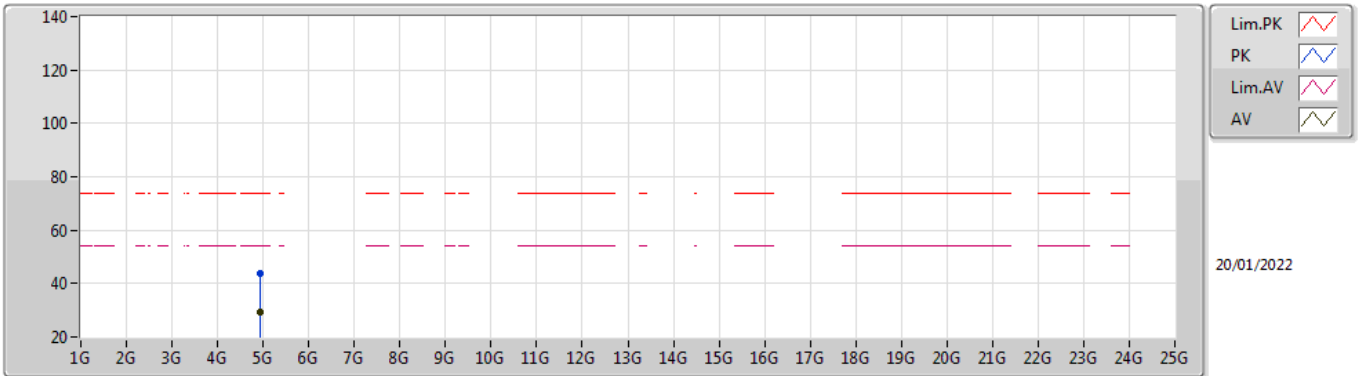


EUT Y\_1TX  
Setting 68  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.92434G     | 43.53             | 74.00             | -30.47         | 37.47         | 3           | Vertical  | 186            | 2.02          | -       | 33.15      | 5.10       | 32.19      |  |
| AV   | 4.92672G     | 29.61             | 54.00             | -24.39         | 23.54         | 3           | Vertical  | 186            | 2.02          | -       | 33.16      | 5.10       | 32.19      |  |

# 802.11ax HEW20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX

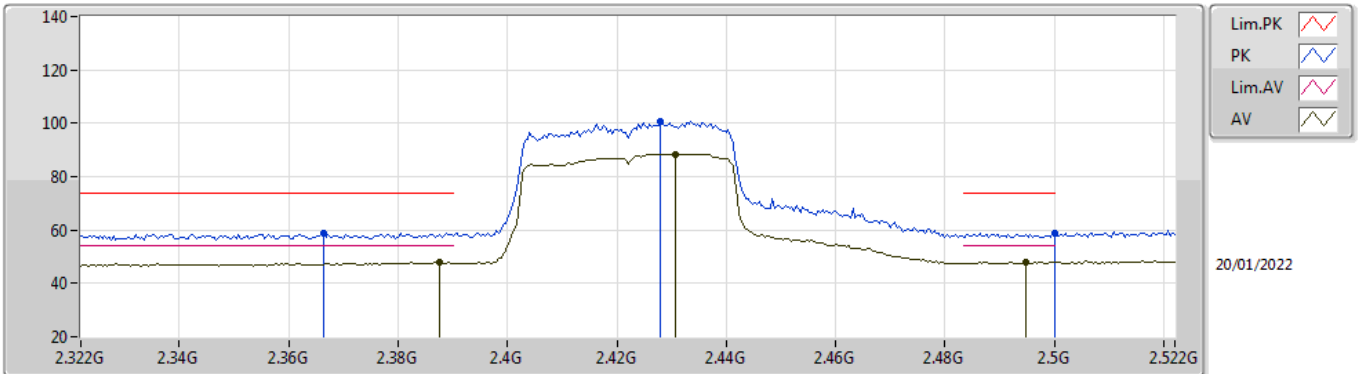


EUT Y\_1TX  
Setting 68  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.92842G     | 43.69             | 74.00             | -30.31         | 37.61         | 3           | Horizontal | 323            | 2.04          | -       | 33.17      | 5.10       | 32.19      |
| AV   | 4.92716G     | 29.50             | 54.00             | -24.50         | 23.43         | 3           | Horizontal | 323            | 2.04          | -       | 33.16      | 5.10       | 32.19      |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX

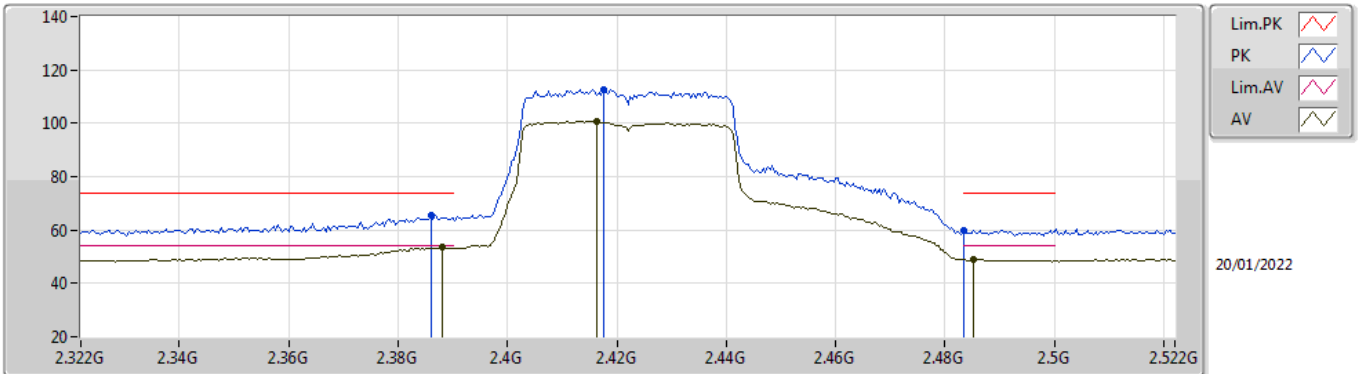


EUT\_Y\_1TX  
Setting 66  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3664G      | 58.76             | 74.00             | -15.24         | 27.65         | 3           | Vertical  | 174            | 1.80          | -       | 28.33      | 2.78       | -          |
| AV   | 2.3876G      | 47.94             | 54.00             | -6.06          | 16.77         | 3           | Vertical  | 174            | 1.80          | -       | 28.38      | 2.79       | -          |
| PK   | 2.428G       | 100.78            | Inf               | -Inf           | 69.55         | 3           | Vertical  | 174            | 1.80          | -       | 28.40      | 2.83       | -          |
| AV   | 2.4308G      | 88.51             | Inf               | -Inf           | 57.28         | 3           | Vertical  | 174            | 1.80          | -       | 28.40      | 2.83       | -          |
| PK   | 2.5G         | 59.04             | 74.00             | -14.96         | 27.54         | 3           | Vertical  | 174            | 1.80          | -       | 28.60      | 2.90       | -          |
| AV   | 2.4948G      | 47.81             | 54.00             | -6.19          | 16.34         | 3           | Vertical  | 174            | 1.80          | -       | 28.58      | 2.89       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX

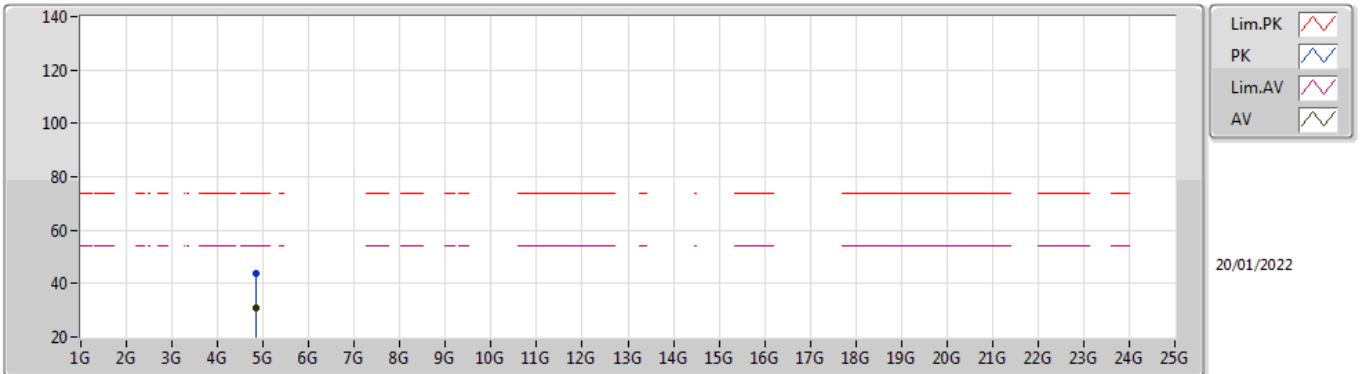


EUT\_Y\_1TX  
Setting 66  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.386G       | 65.52             | 74.00             | -8.48          | 34.36         | 3           | Horizontal | 190            | 1.68          | -       | 28.37      | 2.79       | -          |
| AV   | 2.388G       | 53.57             | 54.00             | -0.43          | 22.40         | 3           | Horizontal | 190            | 1.68          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4176G      | 112.82            | Inf               | -Inf           | 81.60         | 3           | Horizontal | 190            | 1.68          | -       | 28.40      | 2.82       | -          |
| AV   | 2.4164G      | 100.85            | Inf               | -Inf           | 69.63         | 3           | Horizontal | 190            | 1.68          | -       | 28.40      | 2.82       | -          |
| PK   | 2.4835G      | 59.91             | 74.00             | -14.09         | 28.50         | 3           | Horizontal | 190            | 1.68          | -       | 28.53      | 2.88       | -          |
| AV   | 2.4852G      | 48.81             | 54.00             | -5.19          | 17.38         | 3           | Horizontal | 190            | 1.68          | -       | 28.54      | 2.89       | -          |

## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

### 2422MHz\_TX

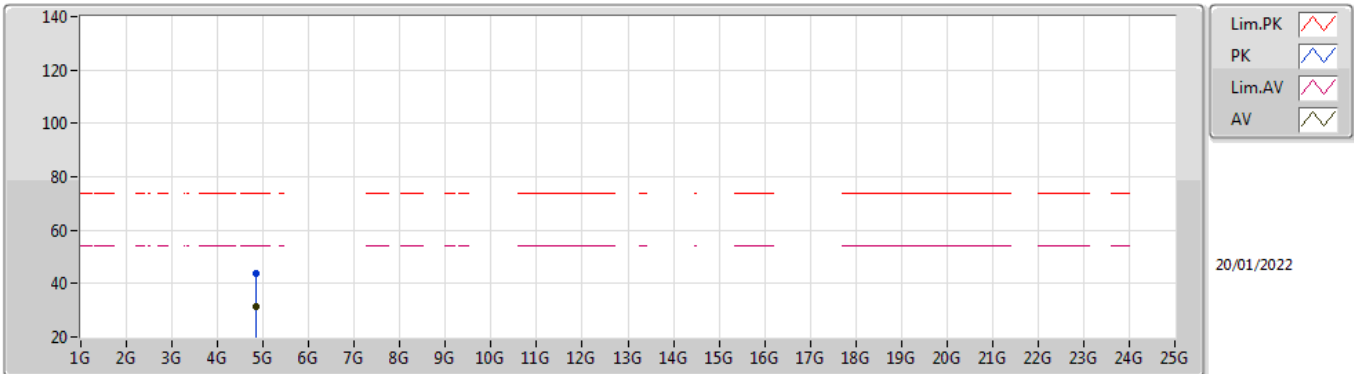


EUT Y\_1TX  
Setting 66  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.84094G     | 43.70             | 74.00             | -30.30         | 37.96         | 3           | Vertical  | 239            | 2.37          | -       | 32.86      | 5.10       | 32.22      |  |
| AV   | 4.84368G     | 30.96             | 54.00             | -23.04         | 25.21         | 3           | Vertical  | 239            | 2.37          | -       | 32.87      | 5.10       | 32.22      |  |

## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

### 2422MHz\_TX

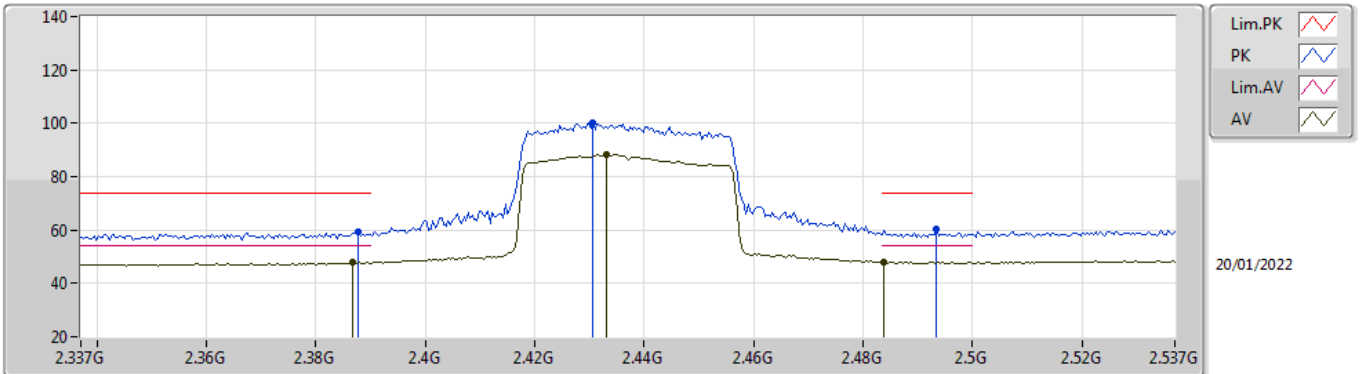


EUT Y\_1TX  
Setting 66  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.84484G     | 43.59             | 74.00             | -30.41         | 37.83         | 3           | Horizontal | 223            | 2.01          | -       | 32.88      | 5.10       | 32.22      |
| AV   | 4.83942G     | 31.14             | 54.00             | -22.86         | 25.40         | 3           | Horizontal | 223            | 2.01          | -       | 32.86      | 5.10       | 32.22      |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

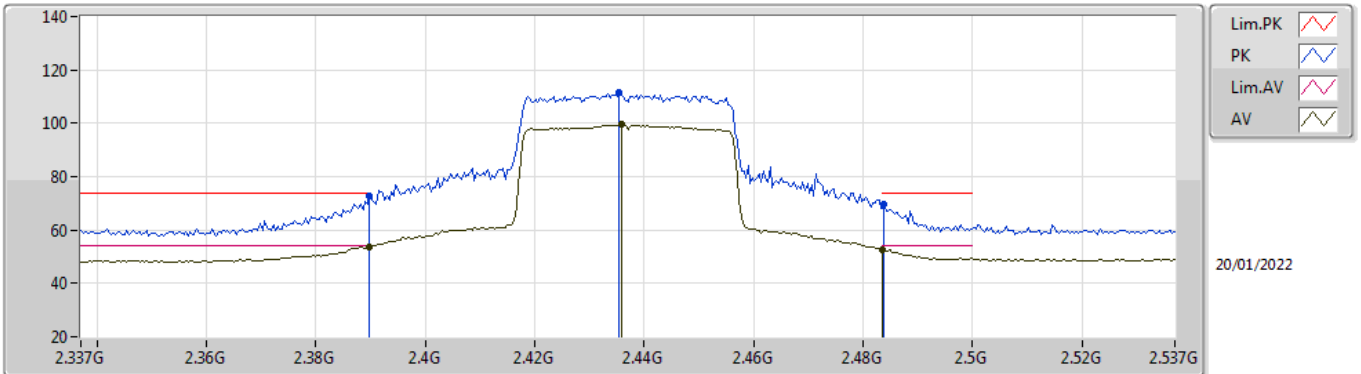


EUT\_Y\_1TX  
Setting 61  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3878G      | 59.19             | 74.00             | -14.81         | 28.02         | 3           | Vertical  | 172            | 1.80          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3866G      | 47.86             | 54.00             | -6.14          | 16.70         | 3           | Vertical  | 172            | 1.80          | -       | 28.37      | 2.79       | -          |
| PK   | 2.4306G      | 100.28            | Inf               | -Inf           | 69.05         | 3           | Vertical  | 172            | 1.80          | -       | 28.40      | 2.83       | -          |
| AV   | 2.433G       | 88.19             | Inf               | -Inf           | 56.96         | 3           | Vertical  | 172            | 1.80          | -       | 28.40      | 2.83       | -          |
| PK   | 2.4934G      | 60.35             | 74.00             | -13.65         | 28.89         | 3           | Vertical  | 172            | 1.80          | -       | 28.57      | 2.89       | -          |
| AV   | 2.4838G      | 47.95             | 54.00             | -6.05          | 16.53         | 3           | Vertical  | 172            | 1.80          | -       | 28.54      | 2.88       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

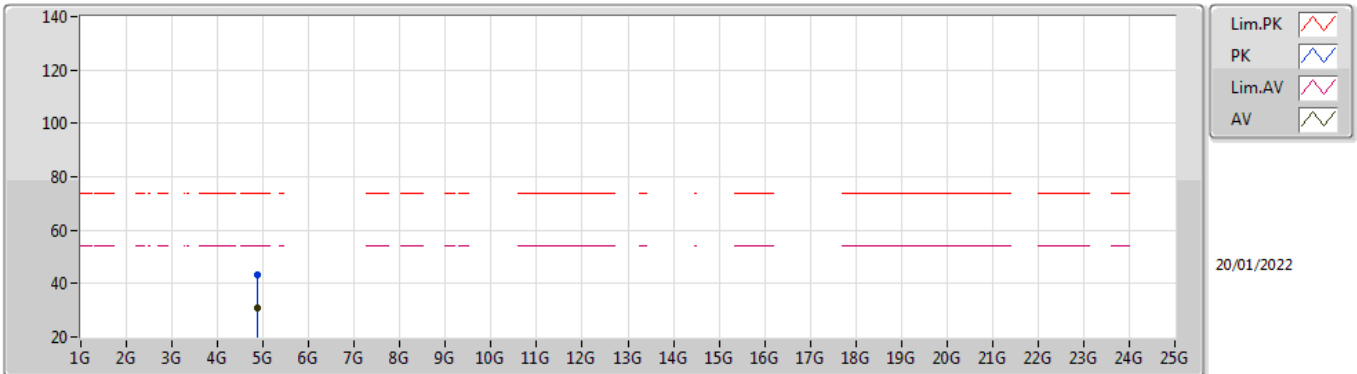


EUT\_Y\_1TX  
Setting 61  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3898G      | 72.61             | 74.00             | -1.39          | 41.44         | 3           | Horizontal | 192            | 1.82          | -       | 28.38      | 2.79       | -          |
| AV   | 2.3898G      | 53.86             | 54.00             | -0.14          | 22.69         | 3           | Horizontal | 192            | 1.82          | -       | 28.38      | 2.79       | -          |
| PK   | 2.4354G      | 111.38            | Inf               | -Inf           | 80.14         | 3           | Horizontal | 192            | 1.82          | -       | 28.40      | 2.84       | -          |
| AV   | 2.4358G      | 99.53             | Inf               | -Inf           | 68.29         | 3           | Horizontal | 192            | 1.82          | -       | 28.40      | 2.84       | -          |
| PK   | 2.4838G      | 69.56             | 74.00             | -4.44          | 38.14         | 3           | Horizontal | 192            | 1.82          | -       | 28.54      | 2.88       | -          |
| AV   | 2.4835G      | 52.72             | 54.00             | -1.28          | 21.31         | 3           | Horizontal | 192            | 1.82          | -       | 28.53      | 2.88       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

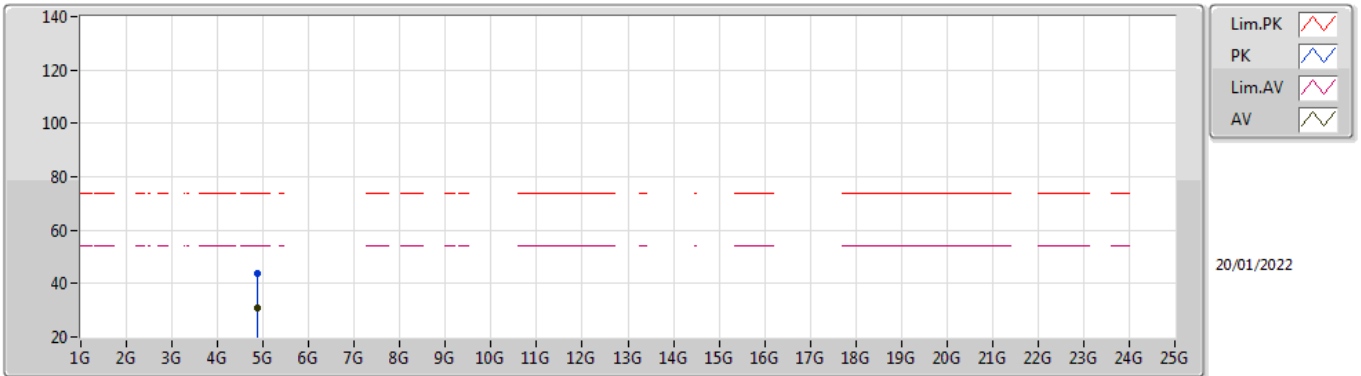


EUT Y\_1TX  
Setting 61  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.87268G     | 43.46             | 74.00             | -30.54         | 37.62         | 3           | Vertical  | 117            | 2.11          | -       | 32.95      | 5.10       | 32.21      |  |
| AV   | 4.8737G      | 30.88             | 54.00             | -23.12         | 25.04         | 3           | Vertical  | 117            | 2.11          | -       | 32.95      | 5.10       | 32.21      |  |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

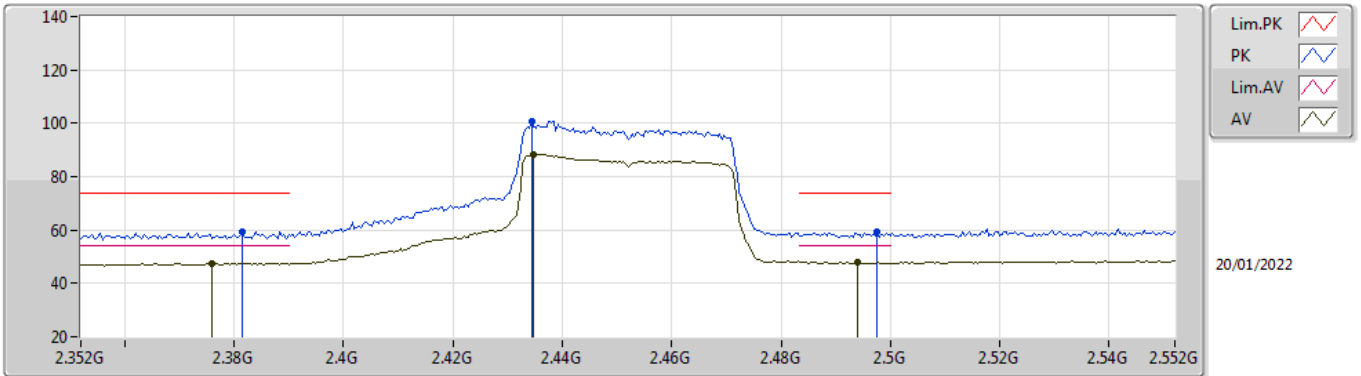


EUT Y\_1TX  
Setting 61  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.87514G     | 43.76             | 74.00             | -30.24         | 37.91         | 3           | Horizontal | 17             | 2.03          | -       | 32.95      | 5.10       | 32.20      |  |
| AV   | 4.87288G     | 30.96             | 54.00             | -23.04         | 25.12         | 3           | Horizontal | 17             | 2.03          | -       | 32.95      | 5.10       | 32.21      |  |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX

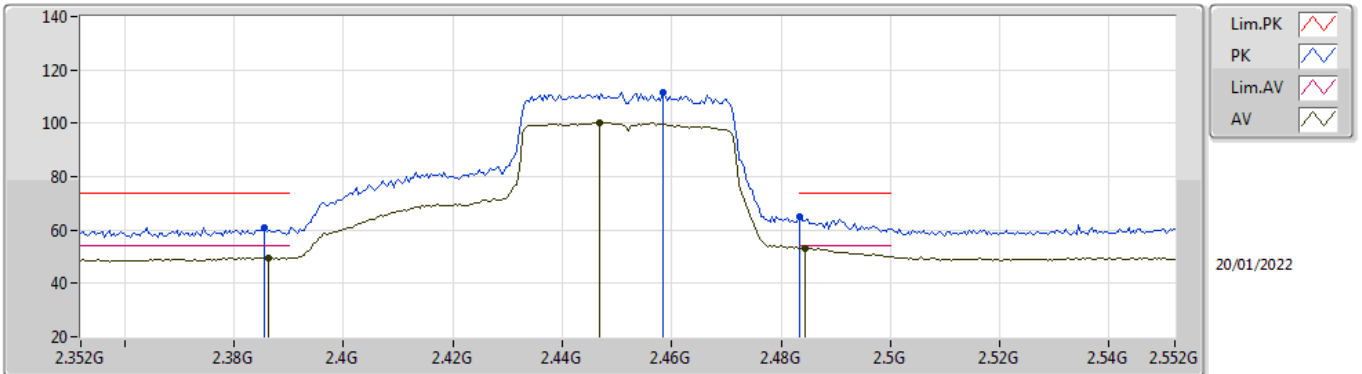


EUT\_Y\_1TX  
Setting 65  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3816G      | 59.21             | 74.00             | -14.79         | 28.06         | 3           | Vertical  | 172            | 1.80          | -       | 28.36      | 2.79       | -          |
| AV   | 2.376G       | 47.57             | 54.00             | -6.43          | 16.43         | 3           | Vertical  | 172            | 1.80          | -       | 28.35      | 2.79       | -          |
| PK   | 2.4344G      | 100.92            | Inf               | -Inf           | 69.69         | 3           | Vertical  | 172            | 1.80          | -       | 28.40      | 2.83       | -          |
| AV   | 2.4348G      | 88.15             | Inf               | -Inf           | 56.92         | 3           | Vertical  | 172            | 1.80          | -       | 28.40      | 2.83       | -          |
| PK   | 2.4976G      | 59.34             | 74.00             | -14.66         | 27.85         | 3           | Vertical  | 172            | 1.80          | -       | 28.59      | 2.90       | -          |
| AV   | 2.494G       | 48.04             | 54.00             | -5.96          | 16.57         | 3           | Vertical  | 172            | 1.80          | -       | 28.58      | 2.89       | -          |

# 802.11ax HEW40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX

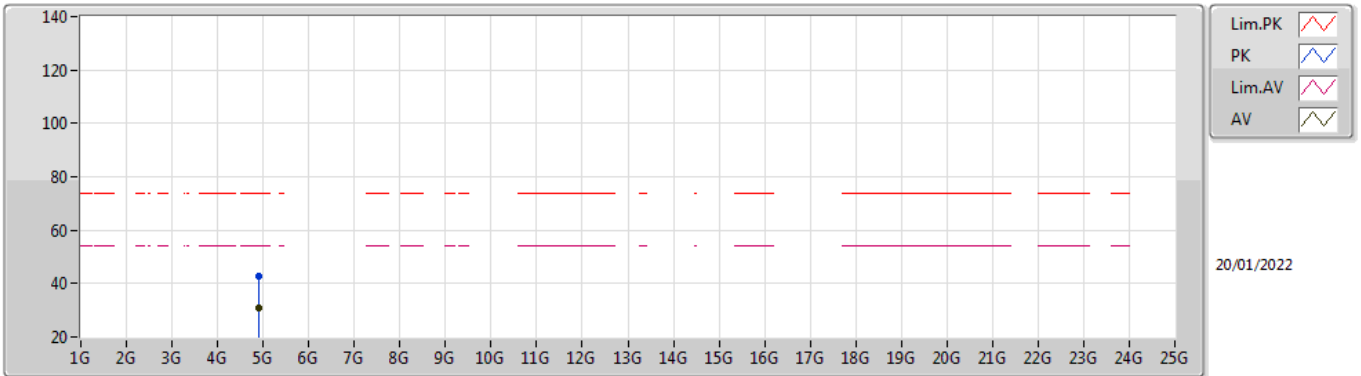


EUT\_Y\_1TX  
Setting 65  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK   | 2.3856G      | 60.86             | 74.00             | -13.14         | 29.70         | 3           | Horizontal | 185            | 1.66          | -       | 28.37      | 2.79       | -          |
| AV   | 2.3864G      | 49.62             | 54.00             | -4.38          | 18.46         | 3           | Horizontal | 185            | 1.66          | -       | 28.37      | 2.79       | -          |
| PK   | 2.4584G      | 111.52            | Inf               | -Inf           | 80.23         | 3           | Horizontal | 185            | 1.66          | -       | 28.43      | 2.86       | -          |
| AV   | 2.4468G      | 100.17            | Inf               | -Inf           | 68.92         | 3           | Horizontal | 185            | 1.66          | -       | 28.40      | 2.85       | -          |
| PK   | 2.4835G      | 64.80             | 74.00             | -9.20          | 33.39         | 3           | Horizontal | 185            | 1.66          | -       | 28.53      | 2.88       | -          |
| AV   | 2.4844G      | 53.35             | 54.00             | -0.65          | 21.93         | 3           | Horizontal | 185            | 1.66          | -       | 28.54      | 2.88       | -          |

## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

### 2452MHz\_TX

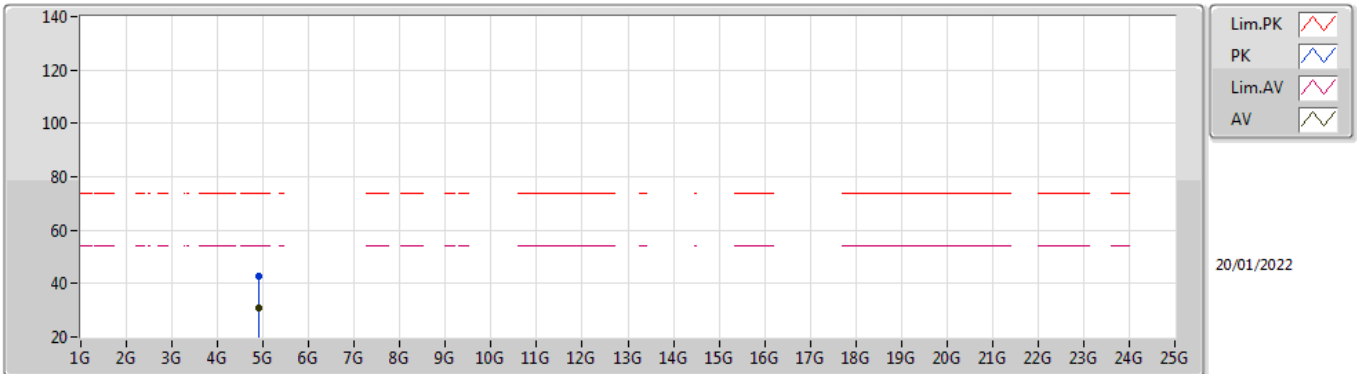


EUT Y\_1TX  
Setting 65  
02-B-G-2

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK   | 4.90186G     | 42.94             | 74.00             | -31.06         | 37.03         | 3           | Vertical  | 80             | 2.64          | -       | 33.01      | 5.10       | 32.20      |
| AV   | 4.90656G     | 30.66             | 54.00             | -23.34         | 24.71         | 3           | Vertical  | 80             | 2.64          | -       | 33.04      | 5.10       | 32.19      |

## 802.11ax HEW40\_Nss1,(MCS0)\_1TX

### 2452MHz\_TX



EUT Y\_1TX  
Setting 65  
02-B-G-2

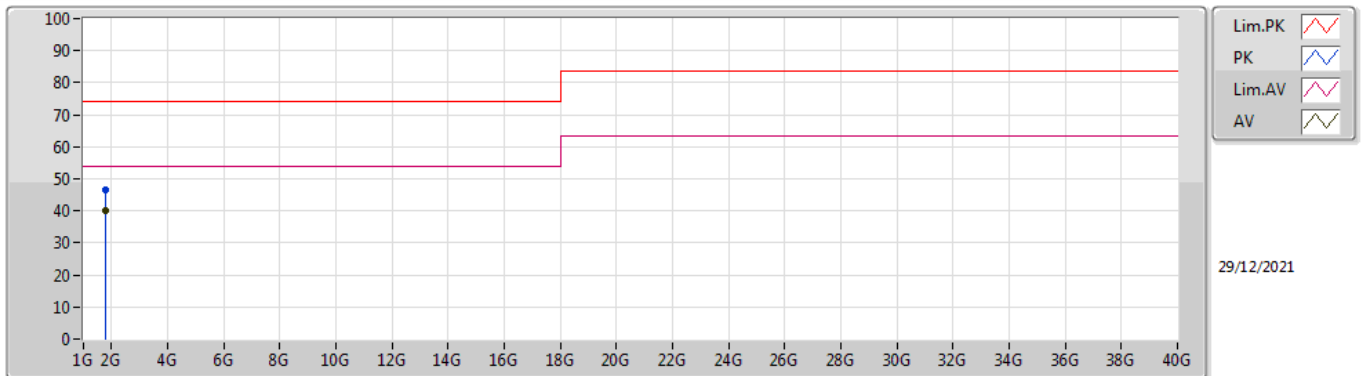
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|
| PK   | 4.90074G     | 42.75             | 74.00             | -31.25         | 36.85         | 3           | Horizontal | 250            | 1.99          | -       | 33.00      | 5.10       | 32.20      |  |
| AV   | 4.90334G     | 30.79             | 54.00             | -23.21         | 24.86         | 3           | Horizontal | 250            | 1.99          | -       | 33.02      | 5.10       | 32.19      |  |



**Summary**

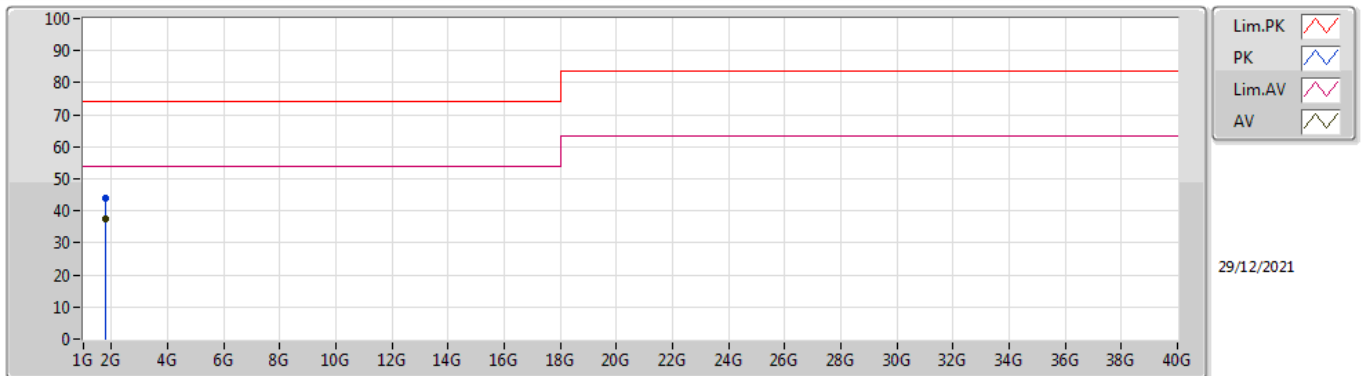
| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-------------------|-------------------|----------------|-----------|
| Mode 4 | Pass   | AV   | 1.78554G     | 40.28             | 54.00             | -13.72         | Vertical  |

## Mode 4



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw      | AF     | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|----------|--------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB/m) | (m)  |           | (°)     | (m)    |         | (dBuV/m) | (dB/m) | (dB) | (dB)  |
| PK   | 1.78424G | 46.58    | 74.00    | -27.42 | -7.93  | 3    | Vertical  | 159     | 2.00   | -       | 54.51    | 25.07  | 4.28 | 37.28 |
| AV   | 1.78554G | 40.28    | 54.00    | -13.72 | -7.93  | 3    | Vertical  | 159     | 2.00   | "Worst" | 48.21    | 25.07  | 4.28 | 37.28 |

## Mode 4



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw      | AF     | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|----------|--------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB/m) | (m)  |            | (°)     | (m)    |         | (dBuV/m) | (dB/m) | (dB) | (dB)  |
| PK   | 1.78381G | 43.88    | 74.00    | -30.12 | -7.93  | 3    | Horizontal | 213     | 1.36   | -       | 51.81    | 25.07  | 4.28 | 37.28 |
| AV   | 1.78564G | 37.33    | 54.00    | -16.67 | -7.93  | 3    | Horizontal | 213     | 1.36   | "Worst" | 45.26    | 25.07  | 4.28 | 37.28 |