



# FCC RADIO TEST REPORT

**FCC ID** : 2AHKM-CODA5519  
**Equipment** : DOCSIS 3.1 Wi-Fi 6 EMTA Gateway  
**Brand Name** : hitron  
**Model Name** : CODA-5519, CODA-5512, CODA-5719, CODA-5712, CODA-5610  
**Applicant** : Hitron Technologies Inc.  
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park, Hsinchu 30078, Taiwan  
**Manufacturer** : Hitron Technologies Inc.  
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park, Hsinchu 30078, Taiwan  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Nov. 28, 2019, and testing was started from Nov. 28, 2019 and completed on Mar. 03, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Sam Chen

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
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## History of this test report

[illegible]



## Summary of Test Result

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

**Declaration of Conformity:**

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

**Comments and Explanations:**

The 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: Cliff Chang**

**Report Producer: Vicky Huang**

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

| Band          | Mode           | BWch (MHz) | Nant |
|---------------|----------------|------------|------|
| 2.4-2.4835GHz | 802.11b        | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11g        | 20         | 4TX  |
| 2.4-2.4835GHz | 802.11n HT20   | 20         | 4TX  |
| 2.4-2.4835GHz | 802.11ax HEW20 | 20         | 4TX  |
| 2.4-2.4835GHz | 802.11ax HEW40 | 40         | 4TX  |

**Note:**

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.



### 1.1.2 Antenna Information

| Ant. | Port | Brand  | Model Name     | Antenna Type | Connector | Gain (dBi) |         |         |
|------|------|--------|----------------|--------------|-----------|------------|---------|---------|
|      |      |        |                |              |           | 2.4GHz     | 5GHz B1 | 5GHz B4 |
| 1    | 3    | WIESON | GY196HC112-011 | PCB Antenna  | MHF       | 2.8        | 2.6     | 3       |
| 2    | 2    | WIESON | GY196HC112-012 | PCB Antenna  | MHF       | 2.8        | 2.6     | 3       |
| 3    | 1    | WIESON | GY196HC112-013 | PCB Antenna  | MHF       | 2.8        | 2.6     | 3       |
| 4    | 4    | WIESON | GY196HC112-014 | PCB Antenna  | MHF       | 2.8        | 2.6     | 3       |

Note: The above information was declared by manufacturer.

**For 2.4GHz function:**

**For IEEE 802.11b mode (1TX/1RX)**

The EUT supports the antenna with TX and RX diversity functions.

Port 1, Port 2, Port 3 and Port 4 support transmit and receive functions, but only one of them will be used at one time.

**For IEEE 802.11g/n/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 5GHz function:**

**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.

### 1.1.3 Mode Test Duty Cycle

| Mode           | DC | DCF(dB) | T(s)                  | VBW(Hz) $\geq 1/T$    |
|----------------|----|---------|-----------------------|-----------------------|
| 802.11b        | 1  | 0       | n/a (DC $\geq 0.98$ ) | n/a (DC $\geq 0.98$ ) |
| 802.11g        | 1  | 0       | n/a (DC $\geq 0.98$ ) | n/a (DC $\geq 0.98$ ) |
| 802.11ax HEW20 | 1  | 0       | n/a (DC $\geq 0.98$ ) | n/a (DC $\geq 0.98$ ) |
| 802.11ax HEW40 | 1  | 0       | n/a (DC $\geq 0.98$ ) | n/a (DC $\geq 0.98$ ) |

Note:

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

### 1.1.4 EUT Operational Condition

|                       |                                                                 |                     |                                              |
|-----------------------|-----------------------------------------------------------------|---------------------|----------------------------------------------|
| EUT Power Type        | From Power Adapter                                              |                     |                                              |
| Beamforming Function  | <input checked="" type="checkbox"/>                             | With beamforming    | <input type="checkbox"/> Without beamforming |
|                       | The product has beamforming function for 802.11n/ac/ax in 5GHz. |                     |                                              |
| Function              | <input checked="" type="checkbox"/>                             | Point-to-multipoint | <input type="checkbox"/> Point-to-point      |
| Test Software Version | v610.23                                                         |                     |                                              |

Note: The above information was declared by manufacturer.



### 1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

| Brand Name | Model Name | Description                                                                      |
|------------|------------|----------------------------------------------------------------------------------|
| hitron     | CODA-5519  | All the models are identical, the difference model served as marketing strategy. |
|            | CODA-5719  |                                                                                  |
|            | CODA-5610  |                                                                                  |
|            | CODA-5712  |                                                                                  |
|            | CODA-5512  |                                                                                  |

From the above models, model: CODA-5519 was selected as representative model for the test and its data was recorded in this report.





## 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
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location                    |        |                                                                                  |                      |                      |
|-------------------------------------|--------|----------------------------------------------------------------------------------|----------------------|----------------------|
| <input type="checkbox"/>            | HWA YA | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)        | TEL : 886-3-327-3456 | FAX : 886-3-327-0973 |
| <input checked="" type="checkbox"/> | JHUBEI | ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. | TEL : 886-3-656-9065 | FAX : 886-3-656-9085 |

| Test Condition           | Test Site No. | Test Engineer | Test Environment     | Test Date                       |
|--------------------------|---------------|---------------|----------------------|---------------------------------|
| RF Conducted             | TH01-CB       | Owen Hsu      | 22.9~24.8°C / 59~63% | Nov. 28, 2019~<br>Mar. 03, 2020 |
| Radiated<br>(Below 1GHz) | 03CH05-CB     | Cola Fan      | 20~21.3°C / 58~63%   | Feb. 28, 2020                   |
| Radiated<br>(Above 1GHz) | 03CH04-CB     | Welson Chen   | 22.6~23.7°C / 59~64% | Nov. 29, 2019~<br>Mar. 02, 2020 |
| AC Conduction            | CO01-CB       | Max Lin       | 22~23°C / 59~60%     | Mar. 03, 2020                   |

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

## 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)  | 2.0 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 5.1 dB      | Confidence levels of 95% |
| Conducted Emission                   | 2.4 dB      | Confidence levels of 95% |
| Output Power Measurement             | 1.5 dB      | Confidence levels of 95% |
| Power Density Measurement            | 2.4 dB      | Confidence levels of 95% |
| Bandwidth Measurement                | 2%          | Confidence levels of 95% |





## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -             |
| 2412MHz                        | 68            |
| 2437MHz                        | 63            |
| 2462MHz                        | 63            |
| 802.11b_Nss1,(1Mbps)_1TX       | -             |
| 2412MHz                        | 59            |
| 2437MHz                        | 65            |
| 2462MHz                        | 69            |
| 802.11b_Nss1,(1Mbps)_1TX       | -             |
| 2412MHz                        | 65            |
| 2437MHz                        | 62            |
| 2462MHz                        | 63            |
| 802.11b_Nss1,(1Mbps)_1TX       | -             |
| 2412MHz                        | 63            |
| 2437MHz                        | 66            |
| 2462MHz                        | 67            |
| 802.11g_Nss1,(6Mbps)_4TX       | -             |
| 2412MHz                        | 46            |
| 2417MHz                        | 66            |
| 2437MHz                        | 70            |
| 2457MHz                        | 68            |
| 2462MHz                        | 48            |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | -             |
| 2412MHz                        | 57            |
| 2417MHz                        | 61            |
| 2437MHz                        | 67            |
| 2457MHz                        | 59            |
| 2462MHz                        | 58            |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | -             |
| 2422MHz                        | 54            |
| 2437MHz                        | 57            |
| 2452MHz                        | 55            |

## 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 |
| <b>Operating Mode</b>                                                         | Normal Link                                              |
| 1                                                                             | EUT + Adapter 1                                          |
| 2                                                                             | EUT + Adapter 2                                          |
| For operating mode 1 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                                                                                 |

| The Worst Case Mode for Following Conformance Tests                           |                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                                             | Emissions in Restricted Frequency Bands                                                                                                                                                                                                             |
| <b>Test Condition</b>                                                         | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| <b>Operating Mode &lt; 1GHz</b>                                               | Normal Link                                                                                                                                                                                                                                         |
| 1                                                                             | EUT + Adapter 1                                                                                                                                                                                                                                     |
| 2                                                                             | EUT + Adapter 2                                                                                                                                                                                                                                     |
| For operating mode 1 is the worst case and it was record in this test report. |                                                                                                                                                                                                                                                     |
| <b>Operating Mode &gt; 1GHz</b>                                               | CTX                                                                                                                                                                                                                                                 |
| 1                                                                             | Place EUT in Y axis                                                                                                                                                                                                                                 |

| 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                                                        |
| 1                                                      | WLAN 2.4GHz+ WLAN 5GHz                                             |
| Refer to Appendix G for Radiated Emission Co-location. |                                                                    |



| The Worst Case Mode for Following Conformance Tests                                |                                                                         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Tests Item                                                                         | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |
| Operating Mode                                                                     |                                                                         |
| 1                                                                                  | WLAN 2.4GHz+WLAN 5GHz                                                   |
| Refer to Sporton Test Report No.: FA020705 for Co-location RF Exposure Evaluation. |                                                                         |

Note: The EUT can only be used at Y axis position

## 2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

## 2.4 Accessories

| Accessories                         |            |                |                                                       |                    |
|-------------------------------------|------------|----------------|-------------------------------------------------------|--------------------|
| Equipment Name                      | Brand Name | Model Name     | Rating                                                | DC Power Line      |
| Adapter 1                           | APD        | DA-60Y12       | Input: 100-240V~50-60Hz, 1.5A Max.<br>Output: 12V, 5A | Non-Shielded, 1.2m |
| Adapter 2                           | Frecom     | F60X-120450SPA | Input: 100-240~50/60Hz 1.6A<br>Output: 12V, 4.5A      | Non-Shielded, 1.5m |
| Others                              |            |                |                                                       |                    |
| AC Power Cord*1, Non-Shielded, 1.2m |            |                |                                                       |                    |
| RJ-45 cable*1, Non-Shielded 1.5m    |            |                |                                                       |                    |



## 2.5 Support Equipment

**For AC Conduction:**

| Support Equipment |                         |            |                       |        |
|-------------------|-------------------------|------------|-----------------------|--------|
| No.               | Equipment               | Brand Name | Model Name            | FCC ID |
| A                 | 2.5G LAN PC             | DELL       | T3400                 | N/A    |
| B                 | LAN NB                  | DELL       | E6430                 | N/A    |
| C                 | Phone                   | SAMPO      | HT-B 907WL            | N/A    |
| D                 | Phone                   | SAMPO      | HT-B 907WL            | N/A    |
| E                 | CO<br>(Terminal System) | Jinghong   | D3 CMTS<br>JH-HE3416B | N/A    |
| F                 | Flash disk3.0           | Transcend  | C55210 2808           | N/A    |
| G                 | 2.4G NB                 | DELL       | E6430                 | N/A    |
| H                 | 5G NB                   | DELL       | E6430                 | N/A    |
| I                 | Splitter                | N/A        | N/A                   | N/A    |

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

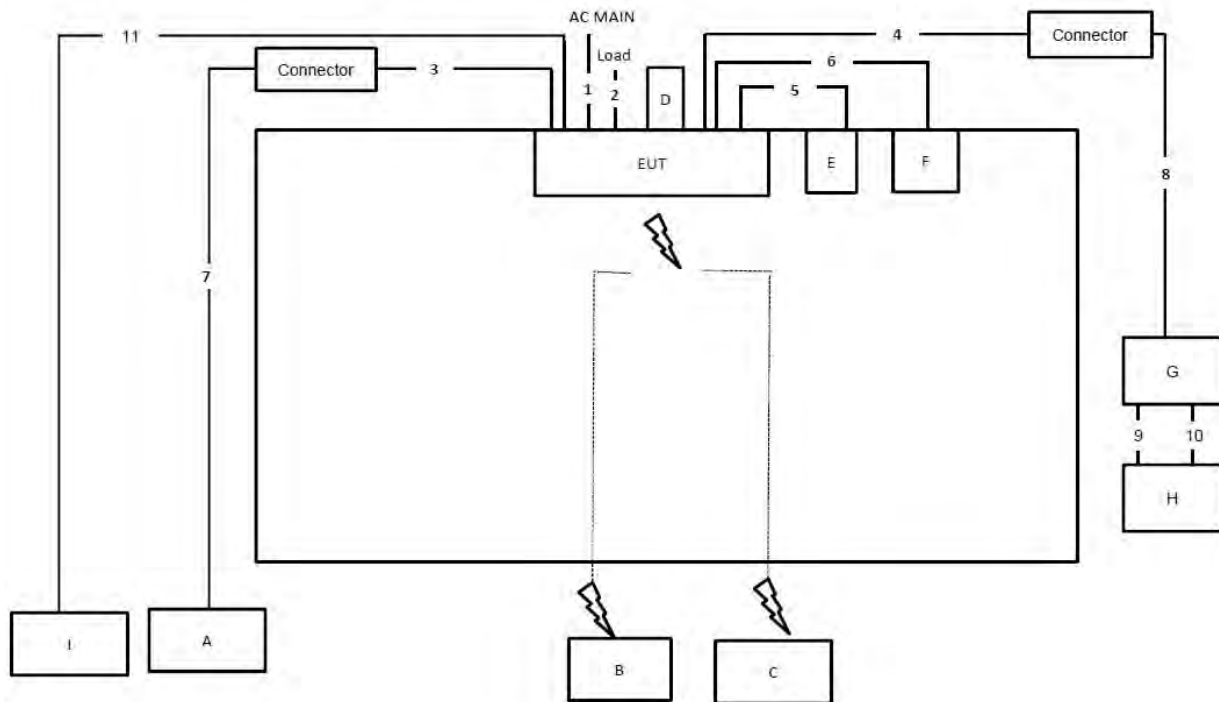
| Support Equipment |                         |            |                       |        |
|-------------------|-------------------------|------------|-----------------------|--------|
| No.               | Equipment               | Brand Name | Model Name            | FCC ID |
| A                 | PC                      | DELL       | T3400                 | N/A    |
| B                 | NB                      | DELL       | E4300                 | N/A    |
| C                 | NB                      | DELL       | E4300                 | N/A    |
| D                 | Flash disk3.0           | Transcend  | C55210 2808           | N/A    |
| E                 | Phone                   | PHILIPS    | M20                   | N/A    |
| F                 | Phone                   | PHILIPS    | M20                   | N/A    |
| G                 | Splitter                | N/A        | N/A                   | N/A    |
| H                 | CO<br>(Terminal System) | Jinghong   | D3 CMTS<br>JH-HE3416B | N/A    |
| I                 | NB                      | DELL       | E4300                 | N/A    |

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

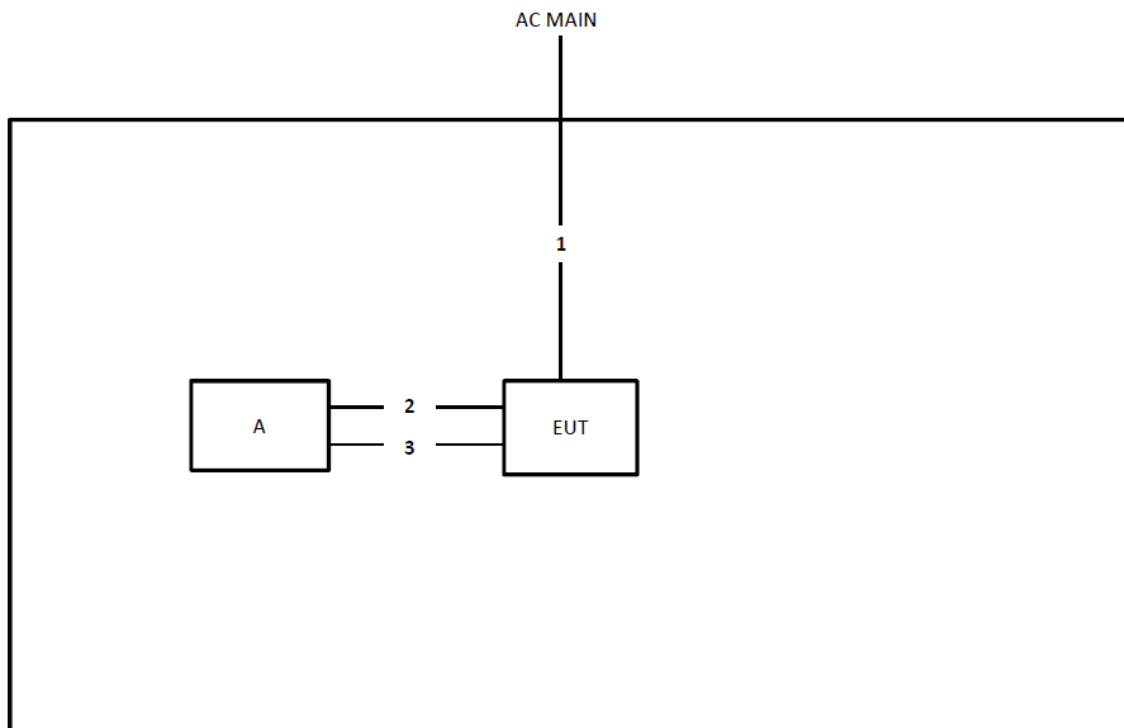
| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| A                 | NB        | DELL       | E4300      | N/A    |



| Item | Connection    | Shielded | Length |
|------|---------------|----------|--------|
| 1    | Power cable   | No       | 2.4m   |
| 2    | Coaxial cable | Yes      | 3m     |
| 3    | RJ-45 cable   | No       | 1.5m   |
| 4    | RJ-11 cable   | No       | 10m    |
| 5    | RJ-11 cable   | No       | 10m    |
| 6    | RJ-45 cable   | No       | 1.5m   |
| 7    | RJ-45 cable   | No       | 10m    |
| 8    | Coaxial cable | Yes      | 1m     |
| 9    | Coaxial cable | Yes      | 1m     |
| 10   | Coaxial cable | Yes      | 1.7m   |
| 11   | RJ-45 cable   | No       | 10m    |

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


| Item | Connection    | Shielded | Length |
|------|---------------|----------|--------|
| 1    | Power cable   | No       | 2.4m   |
| 2    | RJ-45 cable   | No       | 1.5m   |
| 3    | RJ-45 cable   | No       | 1.5m   |
| 4    | Coaxial cable | Yes      | 10m    |
| 5    | RJ-11 cable   | No       | 1.5m   |
| 6    | RJ-11 cable   | No       | 1.5m   |
| 7    | RJ-45 cable   | No       | 10m    |
| 8    | Coaxial cable | Yes      | 1.7m   |
| 9    | Coaxial cable | Yes      | 1m     |
| 10   | Coaxial cable | Yes      | 1.1m   |
| 11   | RJ-45 cable   | No       | 10m    |

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


| Item | Connection    | Shielded | Length |
|------|---------------|----------|--------|
| 1    | Power cable   | No       | 2.4m   |
| 2    | Console cable | Yes      | 1m     |
| 3    | RJ-45 cable   | No       | 1m     |





### 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.

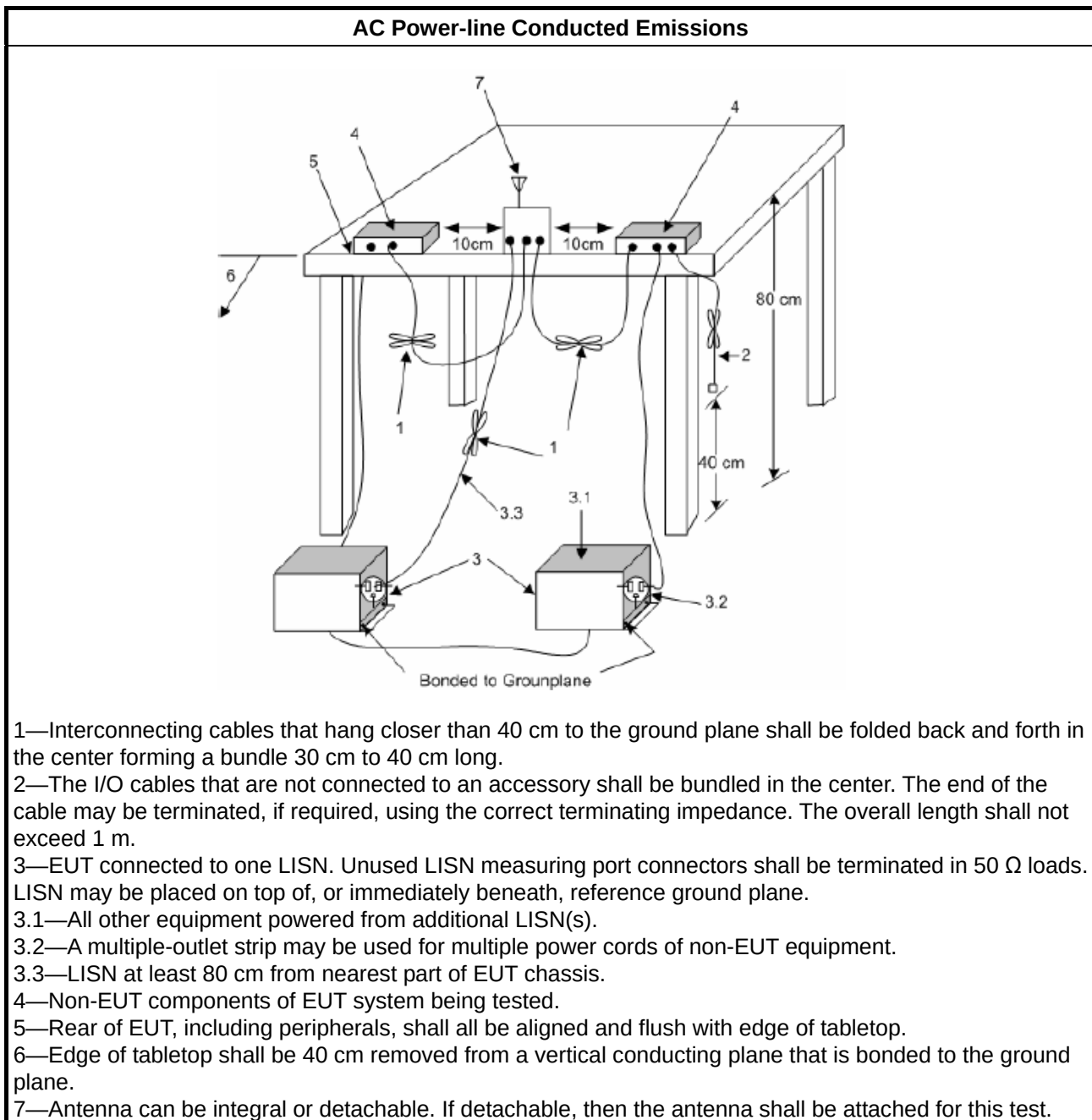
##### 3.1.2 Measuring Instruments

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 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

## 3.2 DTS Bandwidth

### 3.2.1 6dB Bandwidth Limit

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

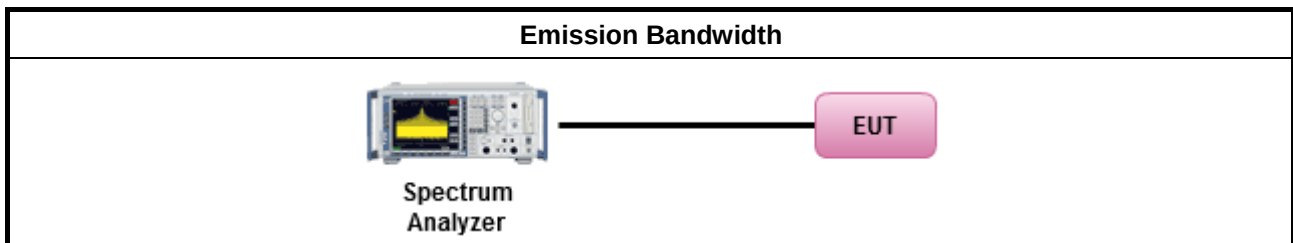
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method                         |                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| ▪                                   | For the emission bandwidth shall be measured using one of the options below:                        |
| <input checked="" type="checkbox"/> | Refer as 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. |                                                                                                      |

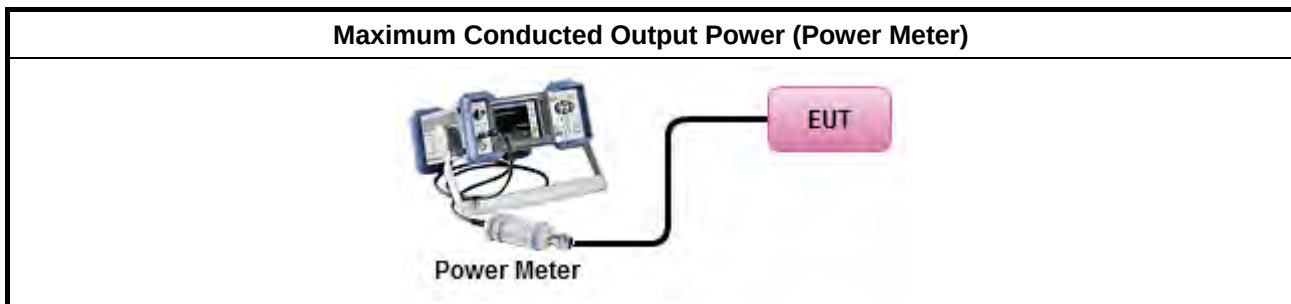
#### 3.3.2 Measuring Instruments

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 |

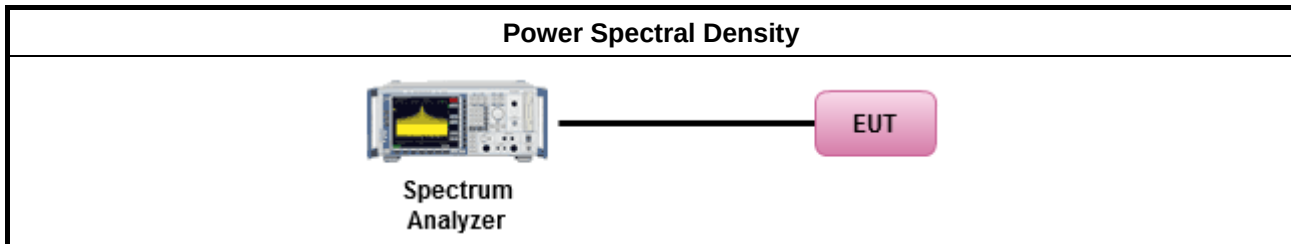
#### 3.4.2 Measuring Instruments

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 checked="" 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> |             |

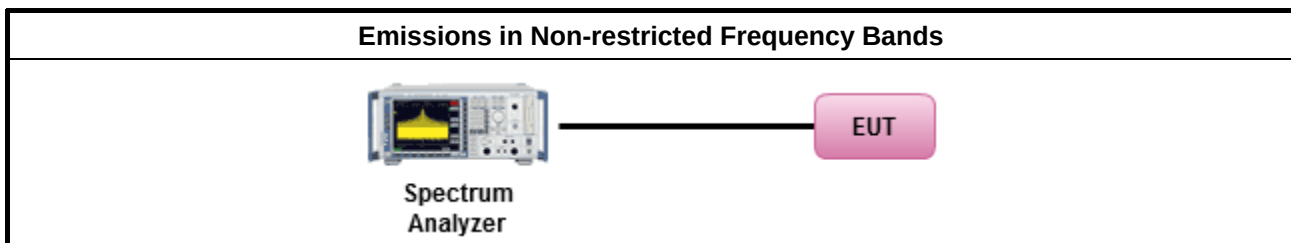
#### 3.5.2 Measuring Instruments

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.

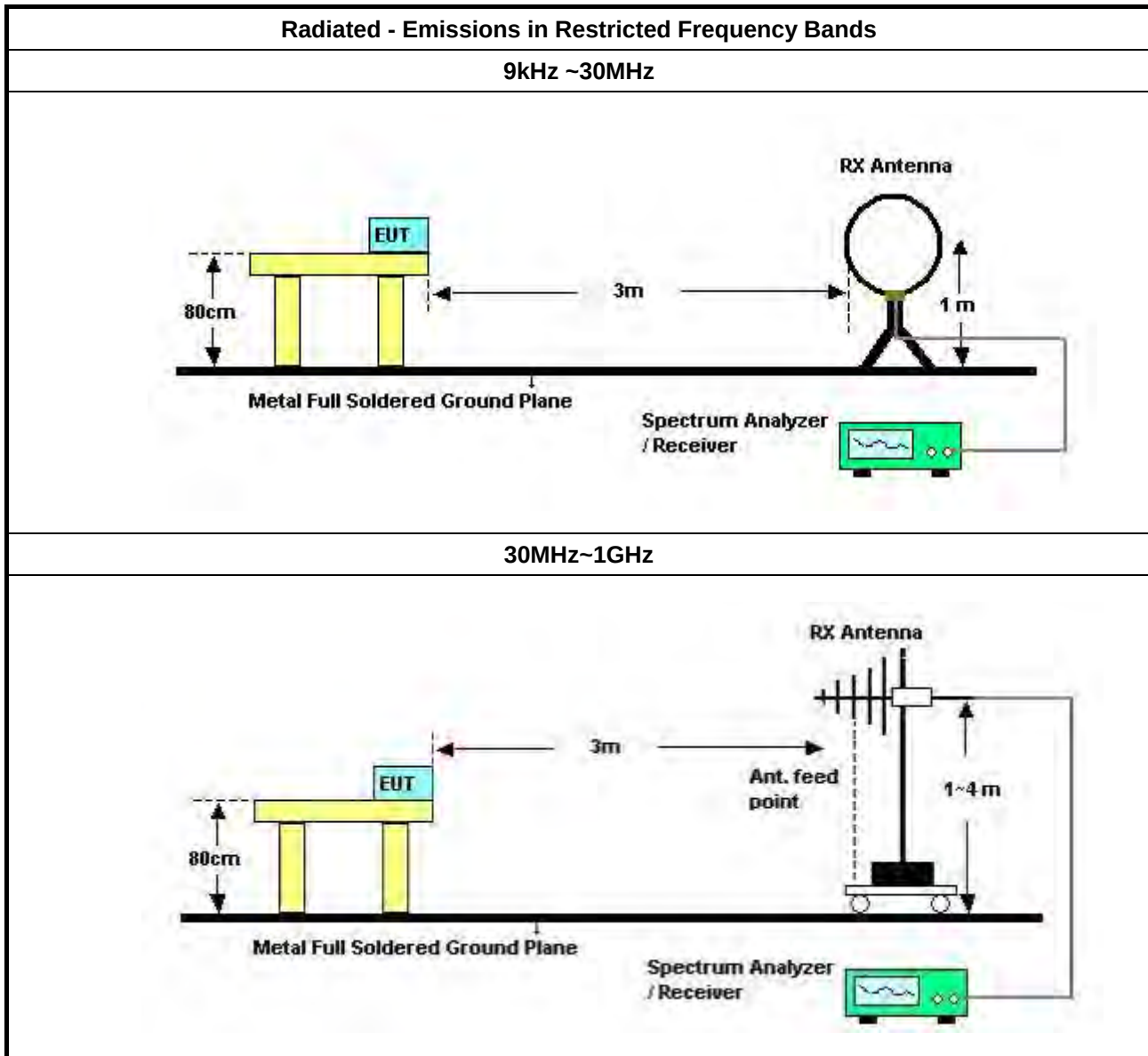
#### 3.6.2 Measuring Instruments

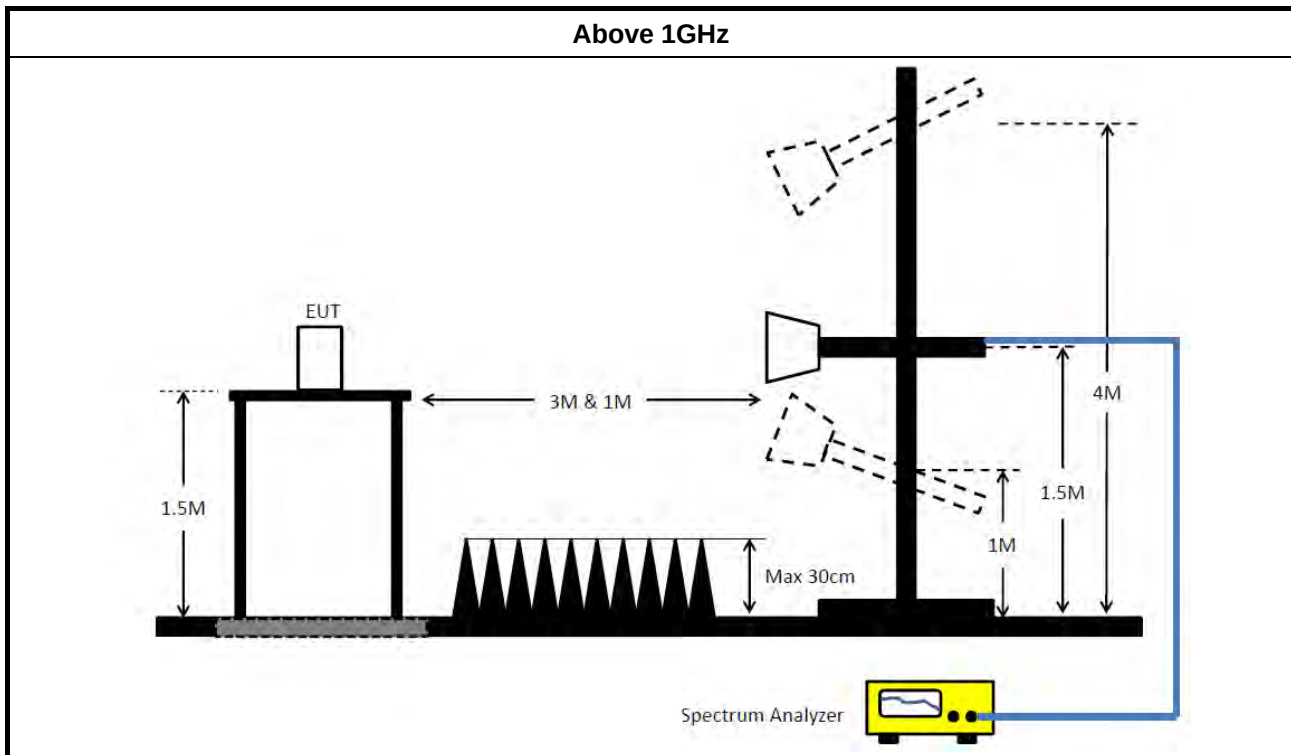
Refer a test equipment and calibration data table in this test report.

### 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).<br/>Devices with multiple transmit chains using options given below:<br/>(1) Measure and sum the spectra across the outputs or<br/>(2) Measure and add 10 log(N) dB</li> </ul>                                                                                       |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>For 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 + Cable Loss + Read Level - Preamp Factor = 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 10 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                        | Manufacturer   | Model No.          | Serial No.       | Characteristics  | Calibration Date | Calibration Due Date | Remark                |
|-----------------------------------|----------------|--------------------|------------------|------------------|------------------|----------------------|-----------------------|
| EMI Receiver                      | Agilent        | N9038A             | My52260123       | 9kHz ~ 8.45GHz   | Feb. 26, 2020    | Feb. 25, 2021        | Conduction (CO01-CB)  |
| LISN                              | F.C.C.         | FCC-LISN-50-16-2   | 04083            | 150kHz ~ 100MHz  | Dec. 25, 2019    | Dec. 24, 2020        | Conduction (CO01-CB)  |
| LISN                              | Schwarzbeck    | NSLK 8127          | 8127647          | 9kHz ~ 30MHz     | Feb. 25, 2020    | Feb. 24, 2021        | Conduction (CO01-CB)  |
| COND Cable                        | Woken          | Cable              | Low cable-CO01   | 9kHz ~ 30MHz     | May 21, 2019     | May 20, 2020         | Conduction (CO01-CB)  |
| Software                          | Audix          | E3                 | 6.120210n        | -                | N.C.R.           | N.C.R.               | Conduction (CO01-CB)  |
| Bilog Antenna with 6dB Attenuator | TESEQ & EMCI   | CBL 6112D & N-6-06 | 35236 & AT-N0610 | 30MHz ~ 2GHz     | Mar. 28, 2019    | Mar. 27, 2020        | Radiation (03CH05-CB) |
| Pre-Amplifier                     | EMCI           | EMC330N            | 980331           | 20MHz ~ 3GHz     | May 01, 2019     | Apr. 30, 2020        | Radiation (03CH05-CB) |
| Spectrum Analyzer                 | R&S            | FSP40              | 100304           | 9kHz ~ 40GHz     | Aug. 15, 2019    | Aug. 14, 2020        | Radiation (03CH05-CB) |
| EMI Test Receiver                 | R&S            | ESCS               | 826547/017       | 9kHz ~ 2.75GHz   | May 15, 2019     | May 14, 2020         | Radiation (03CH05-CB) |
| RF Cable-low                      | Woken          | RG402              | LOW Cable-04+23  | 30MHz~1GHz       | Oct. 07, 2019    | Oct. 06, 2020        | Radiation (03CH05-CB) |
| Loop Antenna                      | Teseq          | HLA 6120           | 24155            | 9kHz - 30 MHz    | Mar. 29, 2019    | Mar. 28, 2020        | Radiation (03CH05-CB) |
| Horn Antenna                      | ETS • Lindgren | 3115               | 00143147         | 750MHz~18GHz     | Oct. 22, 2019    | Oct. 21, 2020        | Radiation (03CH04-CB) |
| Horn Antenna                      | SCHWARZBECK    | BBHA 9170          | BBHA9170507      | 15GHz ~ 40GHz    | Jun. 12, 2019    | Jun. 11, 2020        | Radiation (03CH04-CB) |
| Pre-Amplifier                     | Agilent        | 83017A             | MY53270063       | 0.5GHz ~ 26.5GHz | Mar. 19, 2019    | Mar. 18, 2020        | Radiation (03CH04-CB) |
| Pre-Amplifier                     | MITEQ          | TTA1840-35-H G     | 1864479          | 18GHz ~ 40GHz    | Jul. 03, 2019    | Jul. 02, 2020        | Radiation (03CH04-CB) |
| Spectrum Analyzer                 | R&S            | FSP40              | 100142           | 9kHz~40GHz       | Dec. 26, 2018    | Dec. 25, 2019        | Radiation (03CH04-CB) |
| Spectrum Analyzer                 | R&S            | FSP40              | 100142           | 9kHz~40GHz       | Dec. 18, 2019    | Dec. 17, 2020        | Radiation (03CH04-CB) |
| RF Cable-high                     | Woken          | RG402              | High Cable-21    | 1GHz - 18GHz     | Oct. 07, 2019    | Oct. 06, 2020        | Radiation (03CH04-CB) |
| RF Cable-high                     | Woken          | RG402              | High Cable-21+22 | 1GHz - 18GHz     | Oct. 07, 2019    | Oct. 06, 2020        | Radiation (03CH04-CB) |
| RF Cable-high                     | Woken          | RG402              | High Cable-40G#1 | 18GHz ~ 40 GHz   | Jul. 24, 2019    | Jul. 23, 2020        | Radiation (03CH04-CB) |
| RF Cable-high                     | Woken          | RG402              | High Cable-40G#2 | 18GHz ~ 40 GHz   | Jul. 24, 2019    | Jul. 23, 2020        | Radiation (03CH04-CB) |
| Spectrum analyzer                 | R&S            | FSV40              | 101027           | 9kHz~40GHz       | Jul. 02, 2019    | Jul. 01, 2020        | Conducted (TH01-CB)   |



| Instrument    | Manufacturer | Model No. | Serial No.    | Characteristics  | Calibration Date | Calibration Due Date | Remark              |
|---------------|--------------|-----------|---------------|------------------|------------------|----------------------|---------------------|
| RF Cable-high | Woken        | RG402     | High Cable-06 | 1 GHz – 26.5 GHz | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH01-CB) |
| RF Cable-high | Woken        | RG402     | High Cable-07 | 1 GHz –26.5 GHz  | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH01-CB) |
| RF Cable-high | Woken        | RG402     | High Cable-08 | 1 GHz –26.5 GHz  | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH01-CB) |
| RF Cable-high | Woken        | RG402     | High Cable-09 | 1 GHz –26.5 GHz  | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH01-CB) |
| RF Cable-high | Woken        | RG402     | High Cable-10 | 1 GHz –26.5 GHz  | Oct. 07, 2019    | Oct. 06, 2020        | Conducted (TH01-CB) |
| RF Cable-high | Woken        | RG402     | High Cable-28 | 1 GHz –26.5 GHz  | Nov. 18, 2019    | Nov. 17, 2020        | Conducted (TH01-CB) |
| Power Sensor  | Anritsu      | MA2411B   | 1126203       | 300MHz~40GHz     | Sep. 11, 2019    | Sep. 10, 2020        | Conducted (TH01-CB) |
| Power Meter   | Anritsu      | ML2495A   | 1210004       | 300MHz~40GHz     | Sep. 11, 2019    | Sep. 10, 2020        | Conducted (TH01-CB) |

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

NCR means Non-Calibration required.



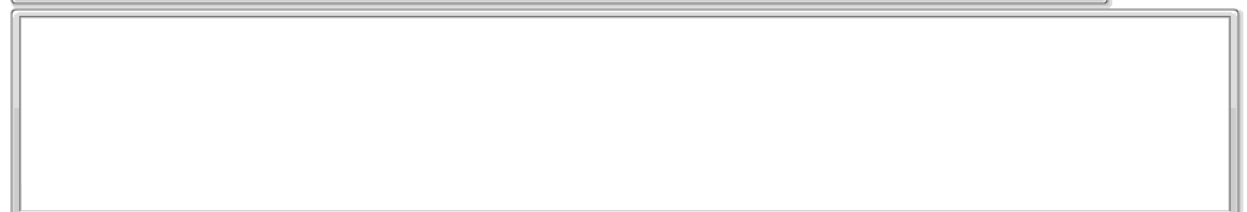
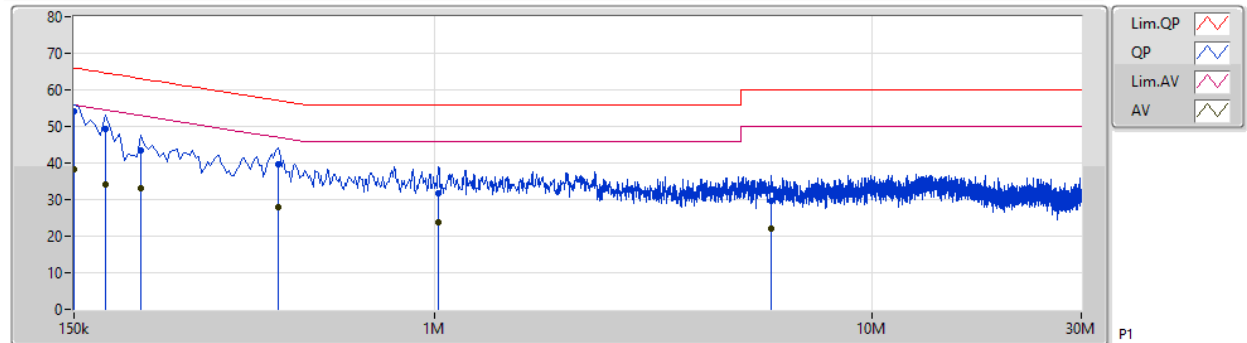
**Summary**

| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition |
|--------|--------|------|--------------|-----------------|-----------------|----------------|----------------|-----------|
| Mode 1 | Pass   | QP   | 150k         | 54.04           | 66.00           | -11.96         | 9.90           | Neutral   |



### Mode 1

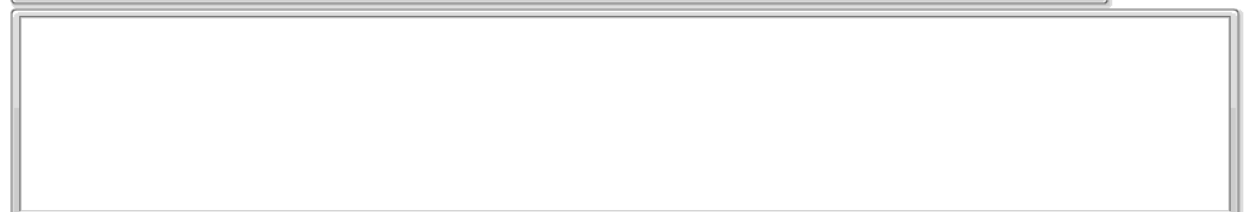
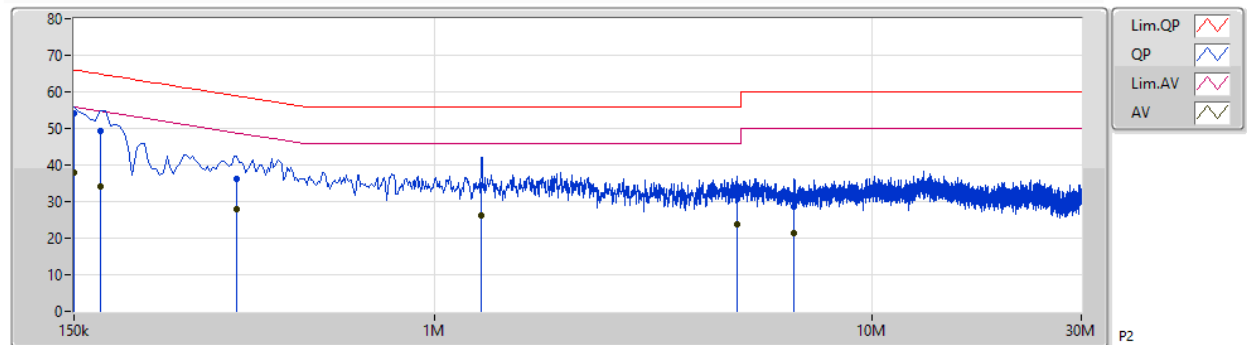
03/03/2020



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|------------|------------|------------|--|--|--|
| QP   | 150k         | 53.97           | 66.00           | -12.03         | 9.90           | Line      | "Worst" | 44.07         | 0.05       | 0.06       | 9.79       |  |  |  |
| AV   | 150k         | 38.26           | 56.00           | -17.74         | 9.90           | Line      | -       | 28.36         | 0.05       | 0.06       | 9.79       |  |  |  |
| QP   | 177k         | 49.41           | 64.62           | -15.21         | 9.90           | Line      | -       | 39.51         | 0.05       | 0.06       | 9.79       |  |  |  |
| AV   | 177k         | 34.03           | 54.62           | -20.59         | 9.90           | Line      | -       | 24.13         | 0.05       | 0.06       | 9.79       |  |  |  |
| QP   | 213k         | 43.47           | 63.09           | -19.62         | 9.90           | Line      | -       | 33.57         | 0.05       | 0.06       | 9.79       |  |  |  |
| AV   | 213k         | 33.24           | 53.09           | -19.85         | 9.90           | Line      | -       | 23.34         | 0.05       | 0.06       | 9.79       |  |  |  |
| QP   | 438k         | 39.54           | 57.11           | -17.57         | 9.92           | Line      | -       | 29.62         | 0.05       | 0.06       | 9.81       |  |  |  |
| AV   | 438k         | 27.98           | 47.11           | -19.13         | 9.92           | Line      | -       | 18.06         | 0.05       | 0.06       | 9.81       |  |  |  |
| QP   | 1.019M       | 31.72           | 56.00           | -24.28         | 9.97           | Line      | -       | 21.75         | 0.06       | 0.09       | 9.82       |  |  |  |
| AV   | 1.019M       | 23.94           | 46.00           | -22.06         | 9.97           | Line      | -       | 13.97         | 0.06       | 0.09       | 9.82       |  |  |  |
| QP   | 5.888M       | 29.49           | 60.00           | -30.51         | 10.23          | Line      | -       | 19.26         | 0.17       | 0.20       | 9.86       |  |  |  |
| AV   | 5.888M       | 22.19           | 50.00           | -27.81         | 10.23          | Line      | -       | 11.96         | 0.17       | 0.20       | 9.86       |  |  |  |

### Mode 1

03/03/2020



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|------------|------------|------------|--|--|--|
| QP   | 150k         | 54.04           | 66.00           | -11.96         | 9.90           | Neutral   | "Worst" | 44.14         | 0.05       | 0.06       | 9.79       |  |  |  |
| AV   | 150k         | 38.09           | 56.00           | -17.91         | 9.90           | Neutral   | -       | 28.19         | 0.05       | 0.06       | 9.79       |  |  |  |
| QP   | 172.5k       | 49.29           | 64.83           | -15.54         | 9.90           | Neutral   | -       | 39.39         | 0.05       | 0.06       | 9.79       |  |  |  |
| AV   | 172.5k       | 34.24           | 54.83           | -20.59         | 9.90           | Neutral   | -       | 24.34         | 0.05       | 0.06       | 9.79       |  |  |  |
| QP   | 352.5k       | 36.21           | 58.91           | -22.70         | 9.92           | Neutral   | -       | 26.29         | 0.05       | 0.06       | 9.81       |  |  |  |
| AV   | 352.5k       | 28.01           | 48.91           | -20.90         | 9.92           | Neutral   | -       | 18.09         | 0.05       | 0.06       | 9.81       |  |  |  |
| QP   | 1.28M        | 34.44           | 56.00           | -21.56         | 9.99           | Neutral   | -       | 24.45         | 0.07       | 0.10       | 9.82       |  |  |  |
| AV   | 1.28M        | 26.07           | 46.00           | -19.93         | 9.99           | Neutral   | -       | 16.08         | 0.07       | 0.10       | 9.82       |  |  |  |
| QP   | 4.898M       | 31.34           | 56.00           | -24.66         | 10.14          | Neutral   | -       | 21.20         | 0.13       | 0.18       | 9.83       |  |  |  |
| AV   | 4.898M       | 23.87           | 46.00           | -22.13         | 10.14          | Neutral   | -       | 13.73         | 0.13       | 0.18       | 9.83       |  |  |  |
| QP   | 6.617M       | 28.59           | 60.00           | -31.41         | 10.22          | Neutral   | -       | 18.37         | 0.15       | 0.20       | 9.87       |  |  |  |
| AV   | 6.617M       | 21.30           | 50.00           | -28.70         | 10.22          | Neutral   | -       | 11.08         | 0.15       | 0.20       | 9.87       |  |  |  |

**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       | 8.075M           | 11.575M         | 11M6G1D  | 8M               | 11.4M           |
| 802.11b_Nss1,(1Mbps)_1TX       | 9M               | 11.85M          | 11M8G1D  | 8.075M           | 11.425M         |
| 802.11b_Nss1,(1Mbps)_1TX       | 8.5M             | 11.55M          | 11M5G1D  | 8M               | 11.45M          |
| 802.11b_Nss1,(1Mbps)_1TX       | 8.525M           | 11.725M         | 11M7G1D  | 8.025M           | 11.525M         |
| 802.11g_Nss1,(6Mbps)_4TX       | 16.375M          | 21.575M         | 21M6D1D  | 16.325M          | 16.975M         |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 19.025M          | 19.275M         | 19M3D1D  | 18.95M           | 19.075M         |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 38.15M           | 38.3M           | 38M3D1D  | 37.85M           | 38.15M          |

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

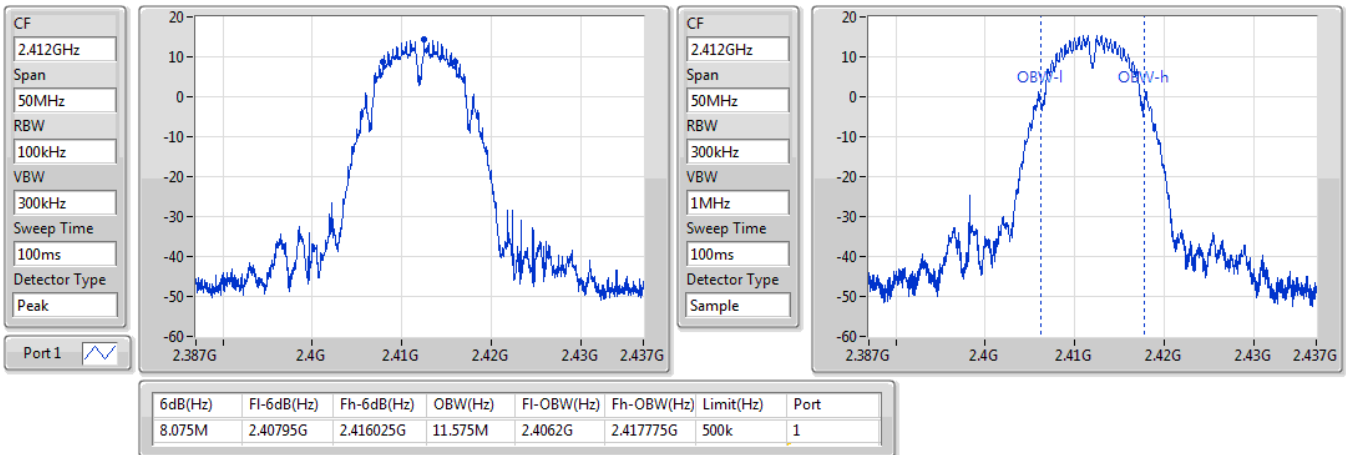
**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) | Port 3-N dB<br>(Hz) | Port 3-OBW<br>(Hz) | Port 4-N dB<br>(Hz) | Port 4-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 8.075M              | 11.575M            | -                   | -                  | -                   | -                  | -                   | -                  |
| 2437MHz                        | Pass   | 500k          | 8.05M               | 11.4M              | -                   | -                  | -                   | -                  | -                   | -                  |
| 2462MHz                        | Pass   | 500k          | 8M                  | 11.4M              | -                   | -                  | -                   | -                  | -                   | -                  |
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | -                   | -                  | 8.5M                | 11.425M            | -                   | -                  | -                   | -                  |
| 2437MHz                        | Pass   | 500k          | -                   | -                  | 8.075M              | 11.625M            | -                   | -                  | -                   | -                  |
| 2462MHz                        | Pass   | 500k          | -                   | -                  | 9M                  | 11.85M             | -                   | -                  | -                   | -                  |
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | -                   | -                  | -                   | -                  | 8.5M                | 11.525M            | -                   | -                  |
| 2437MHz                        | Pass   | 500k          | -                   | -                  | -                   | -                  | 8M                  | 11.45M             | -                   | -                  |
| 2462MHz                        | Pass   | 500k          | -                   | -                  | -                   | -                  | 8.05M               | 11.55M             | -                   | -                  |
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | -                   | -                  | -                   | -                  | -                   | -                  | 8.075M              | 11.525M            |
| 2437MHz                        | Pass   | 500k          | -                   | -                  | -                   | -                  | -                   | -                  | 8.025M              | 11.675M            |
| 2462MHz                        | Pass   | 500k          | -                   | -                  | -                   | -                  | -                   | -                  | 8.525M              | 11.725M            |
| 802.11g_Nss1,(6Mbps)_4TX       | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 16.35M              | 17M                | 16.35M              | 17.1M              | 16.375M             | 17.1M              | 16.375M             | 17.075M            |
| 2437MHz                        | Pass   | 500k          | 16.35M              | 17.85M             | 16.325M             | 19.2M              | 16.35M              | 17.875M            | 16.325M             | 21.575M            |
| 2462MHz                        | Pass   | 500k          | 16.375M             | 17.15M             | 16.35M              | 16.975M            | 16.35M              | 17.1M              | 16.375M             | 17.025M            |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 19M                 | 19.175M            | 18.975M             | 19.175M            | 19.025M             | 19.2M              | 18.975M             | 19.15M             |
| 2437MHz                        | Pass   | 500k          | 18.95M              | 19.275M            | 18.975M             | 19.175M            | 18.975M             | 19.25M             | 18.95M              | 19.2M              |
| 2462MHz                        | Pass   | 500k          | 18.95M              | 19.125M            | 19M                 | 19.125M            | 18.975M             | 19.125M            | 18.975M             | 19.075M            |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  | -                   | -                  |
| 2422MHz                        | Pass   | 500k          | 37.9M               | 38.2M              | 38M                 | 38.2M              | 38.05M              | 38.2M              | 38.1M               | 38.3M              |
| 2437MHz                        | Pass   | 500k          | 38.1M               | 38.3M              | 38.15M              | 38.3M              | 37.95M              | 38.15M             | 38.15M              | 38.3M              |
| 2452MHz                        | Pass   | 500k          | 38.1M               | 38.3M              | 38.05M              | 38.2M              | 38.1M               | 38.25M             | 37.85M              | 38.2M              |

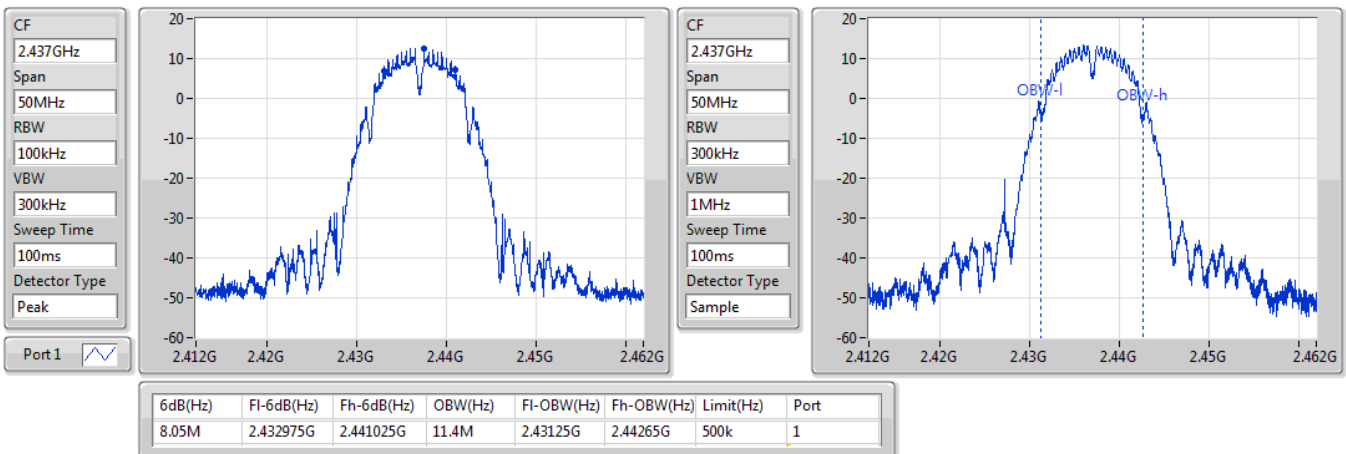
**Port X-N dB** = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

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

02/12/2019


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

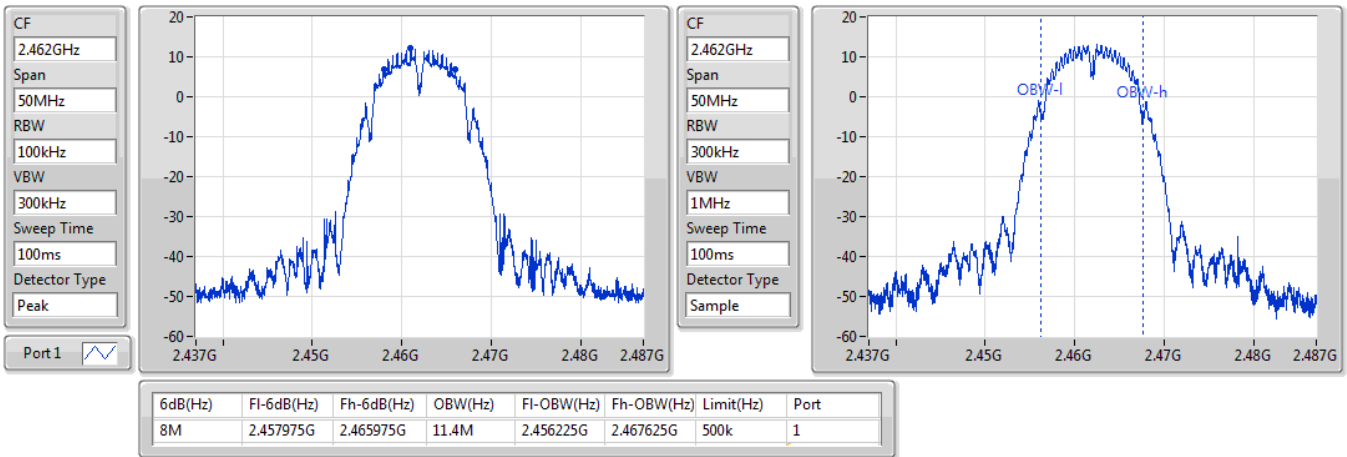
02/12/2019



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

**EBW**
**2462MHz**

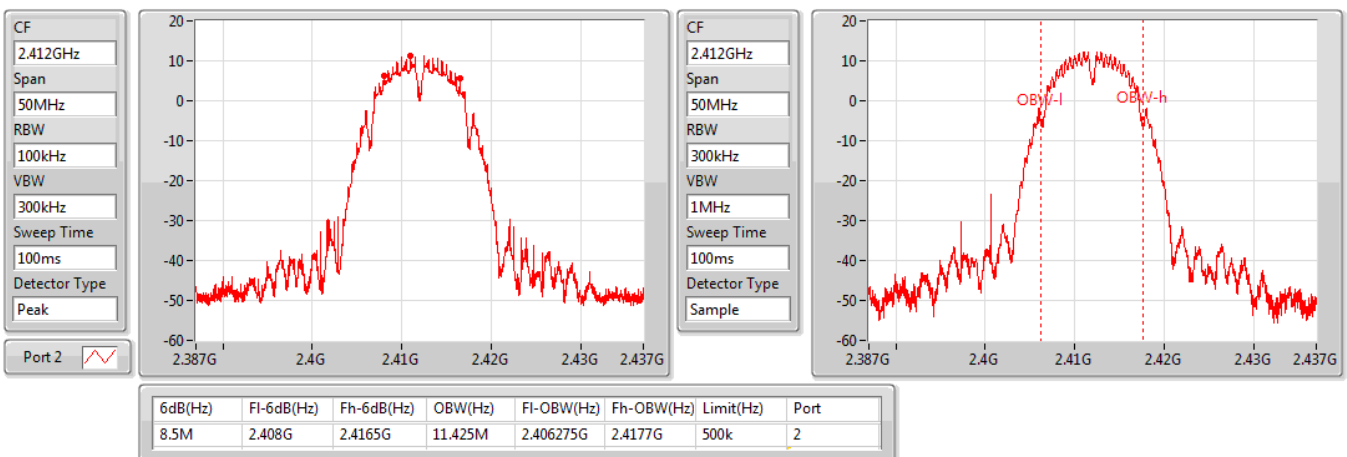
02/12/2019



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

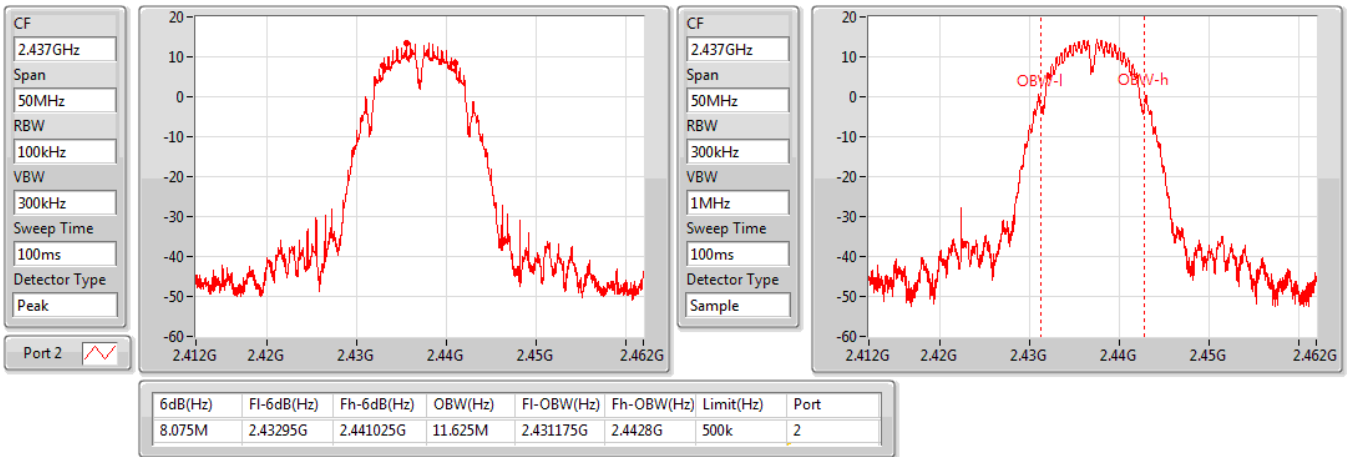
**EBW**
**2412MHz**

02/12/2019

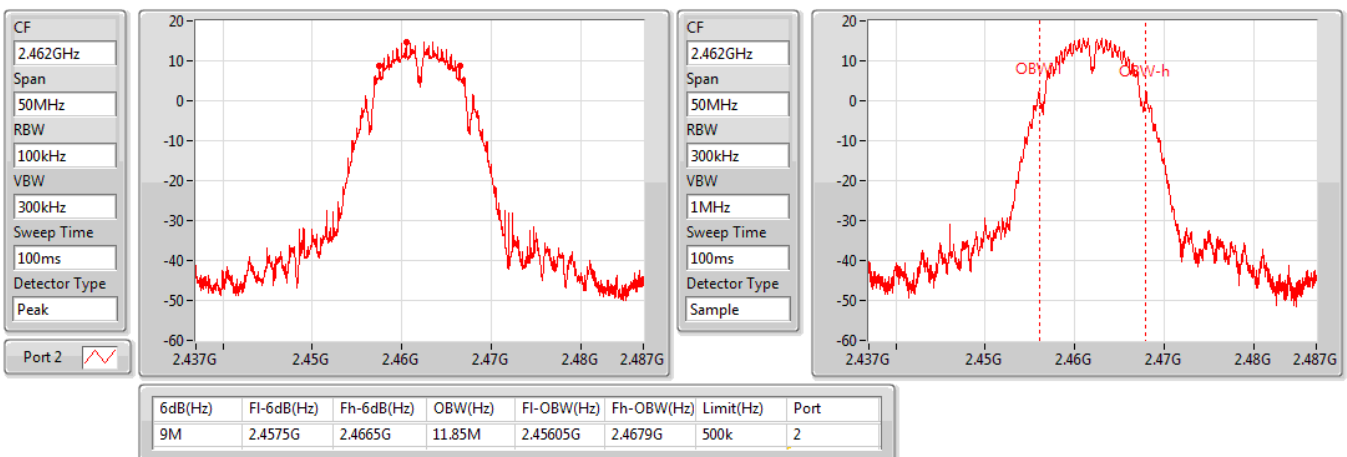


**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2437MHz**

02/12/2019

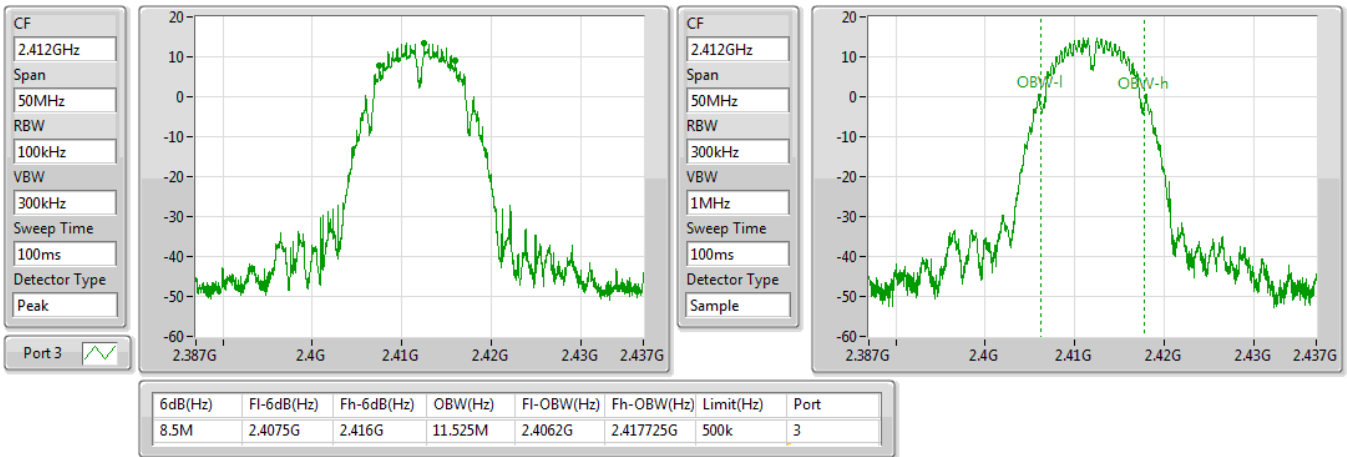

**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2462MHz**

02/12/2019

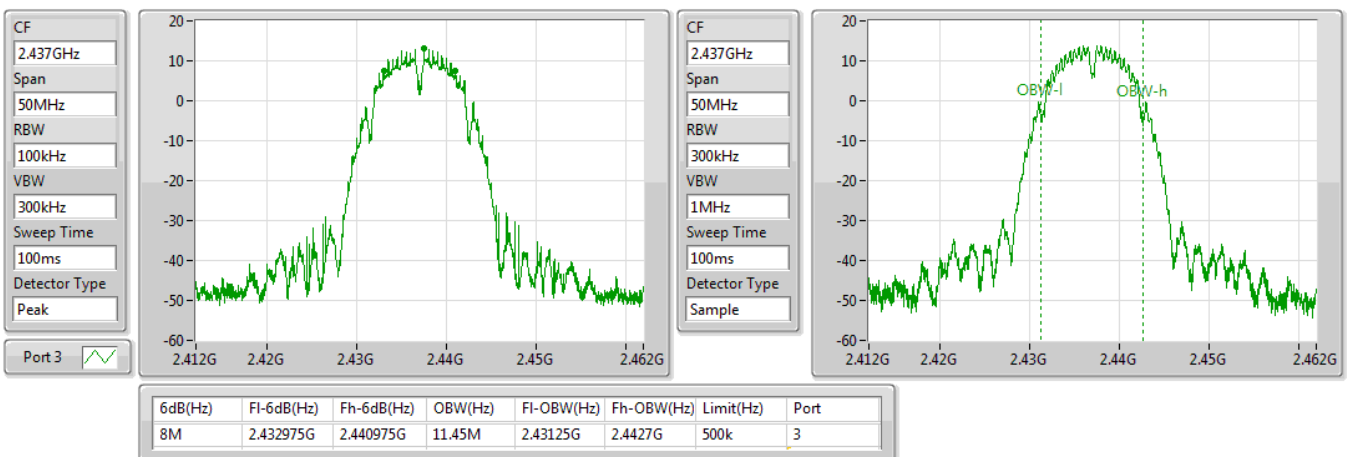


**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2412MHz**

02/12/2019


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

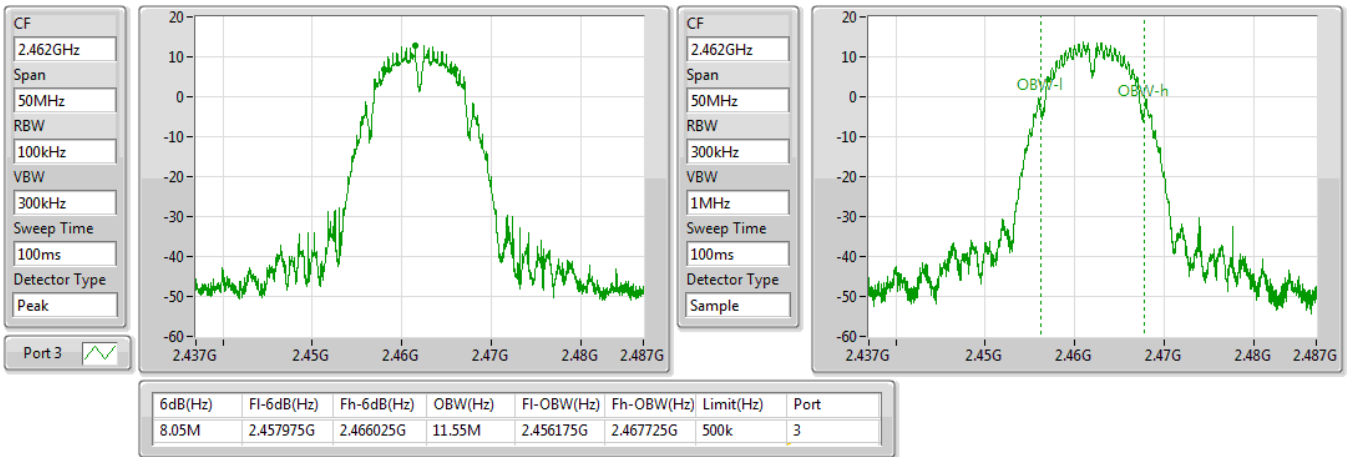
02/12/2019



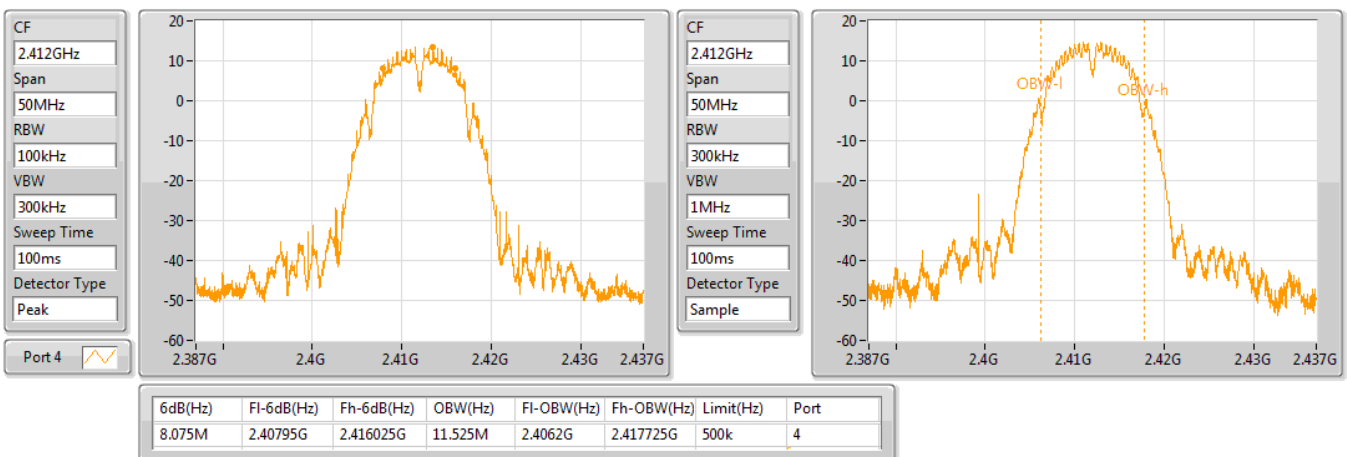


**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2462MHz**

02/12/2019

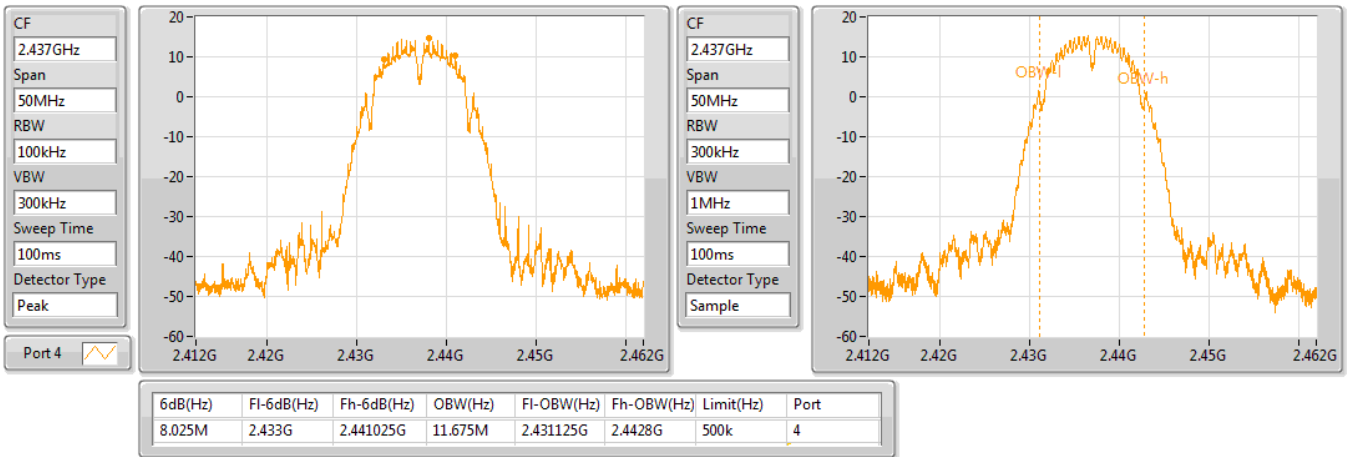

**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2412MHz**

02/12/2019

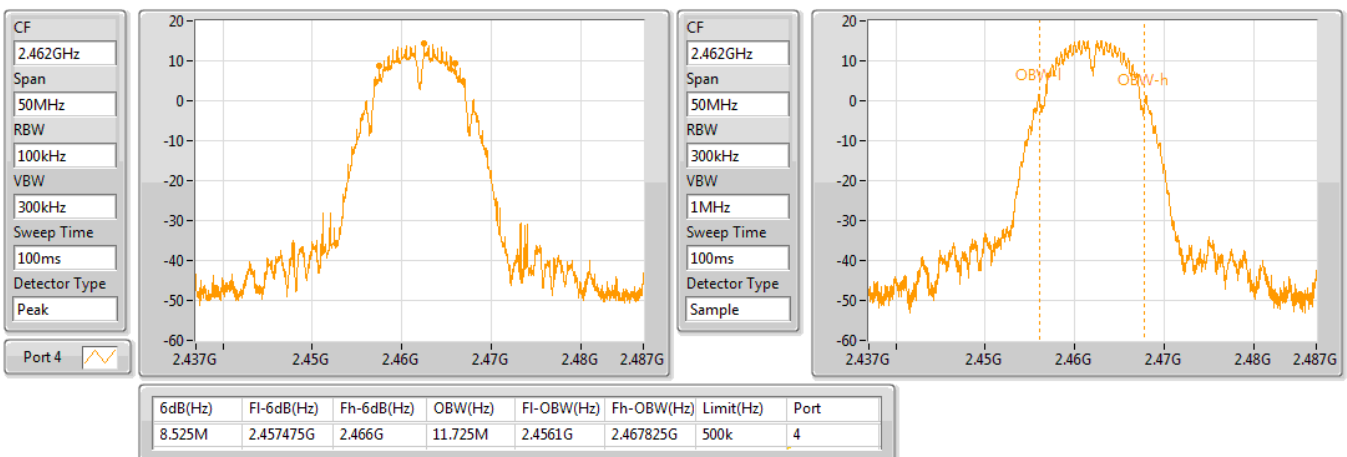


**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2437MHz**

02/12/2019


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

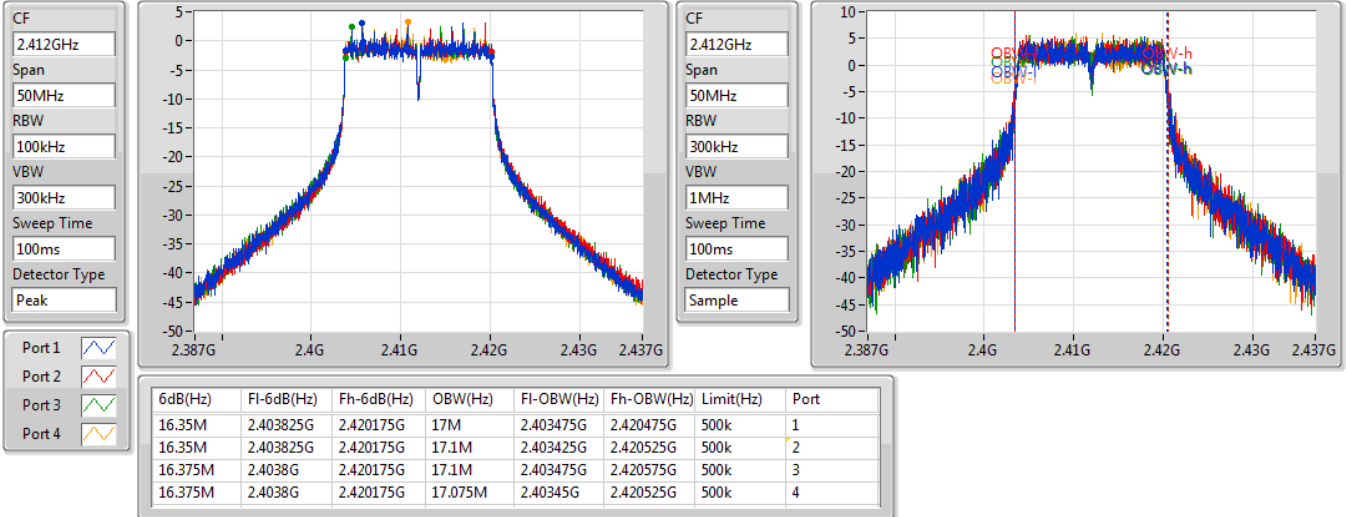
02/12/2019



## 802.11g\_Nss1,(6Mbps)\_4TX

**2412MHz**

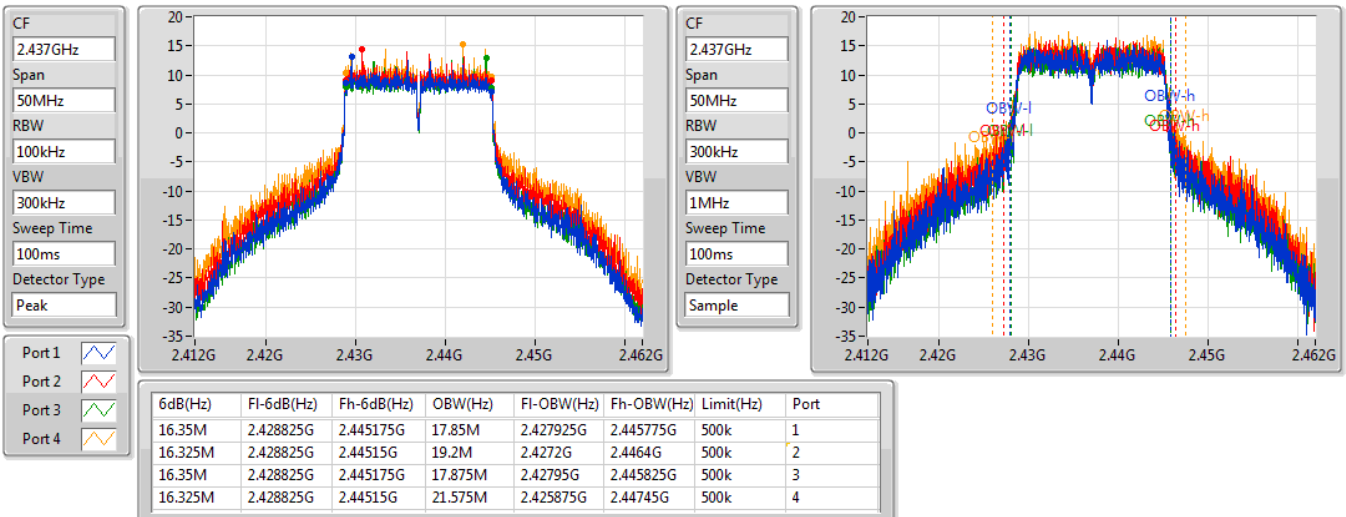
02/12/2019



## 802.11g\_Nss1,(6Mbps)\_4TX

**2437MHz**

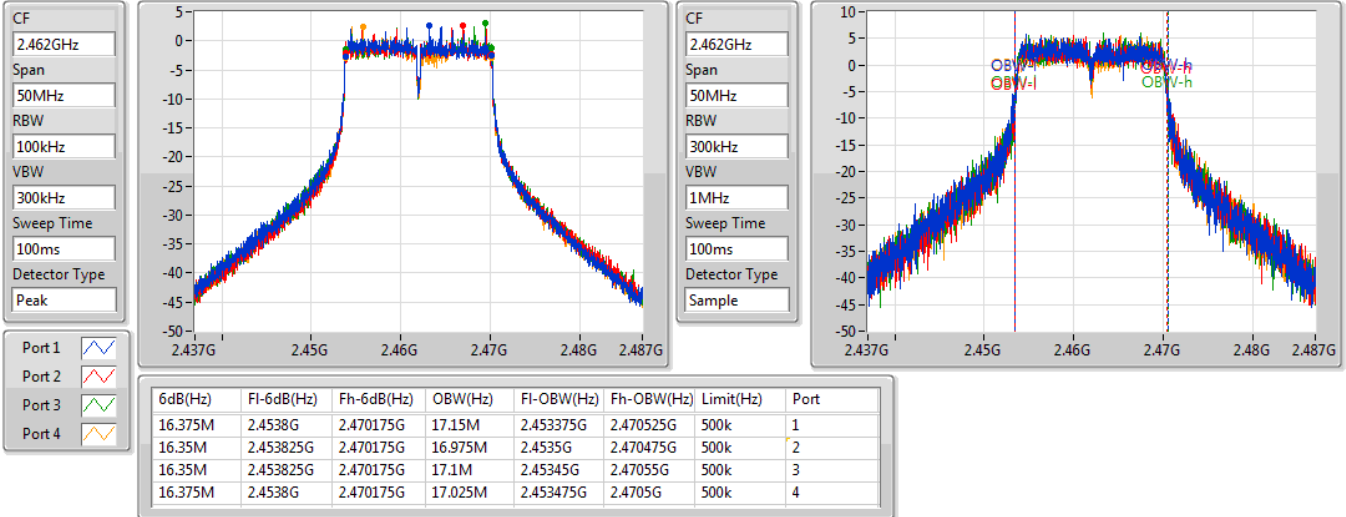
02/12/2019



## 802.11g\_Nss1,(6Mbps)\_4TX

**EBW**
**2462MHz**

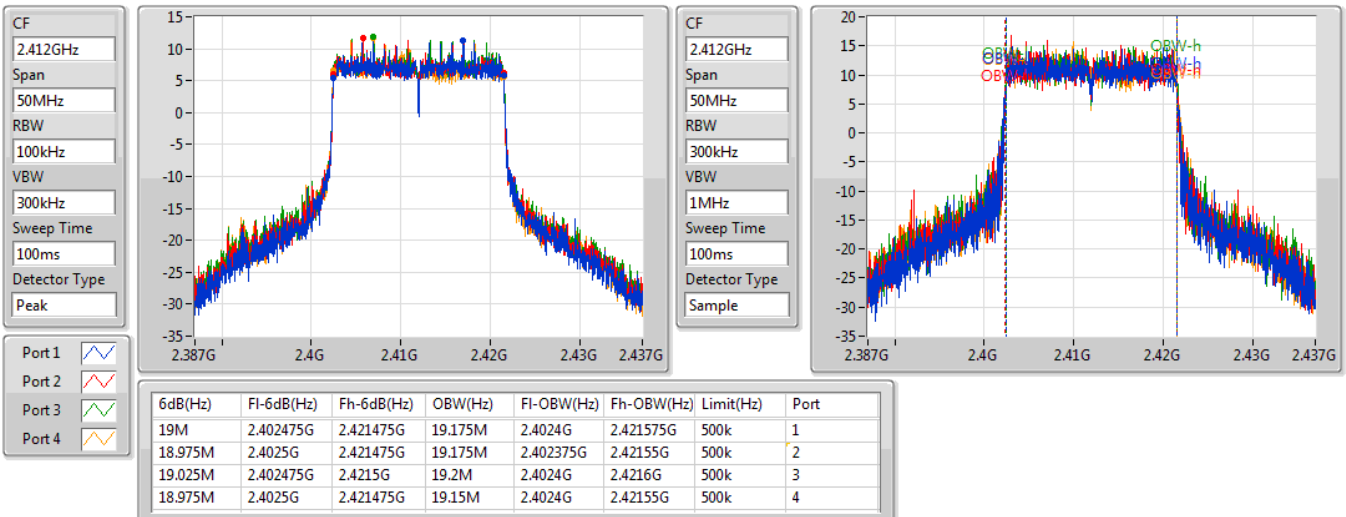
02/12/2019



## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

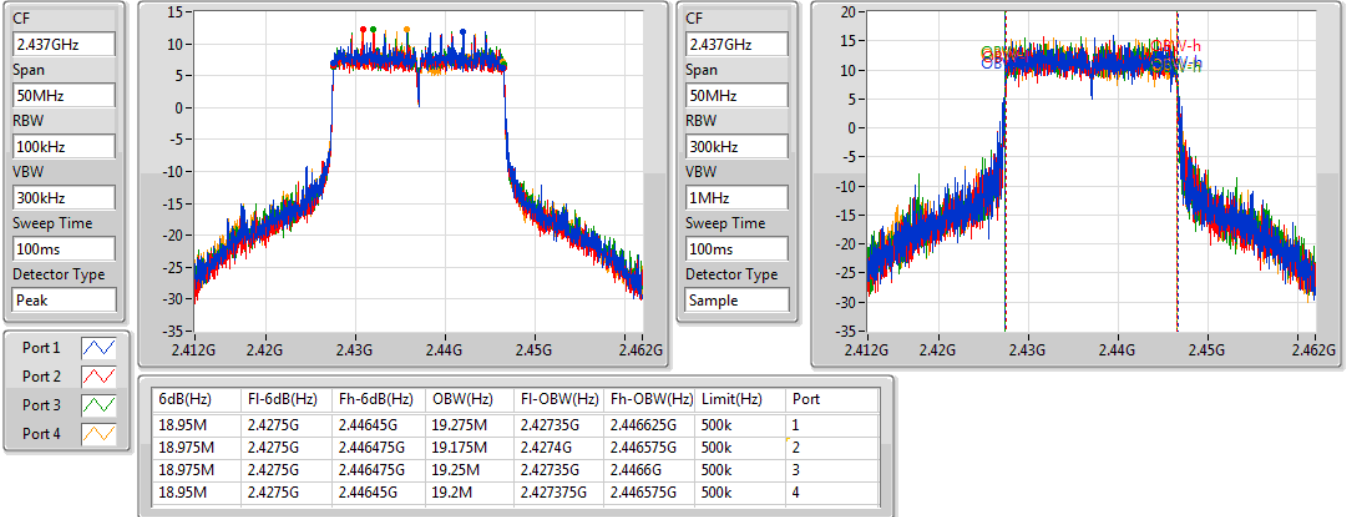
**EBW**
**2412MHz**

02/12/2019

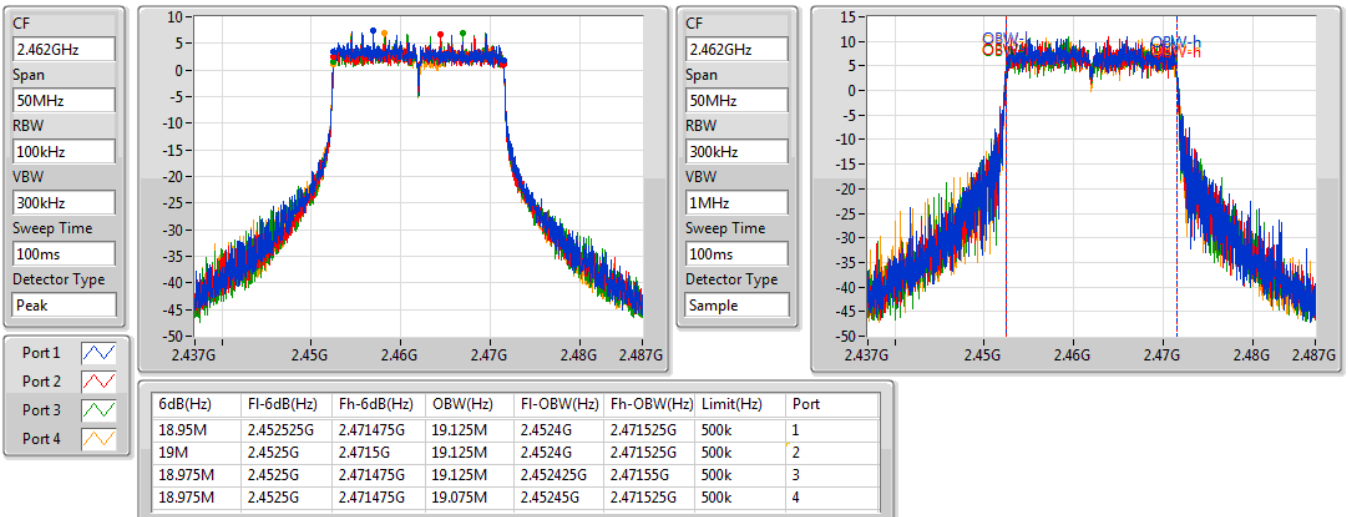


**802.11ax HEW20\_Nss1,(MCS0)\_4TX**
**EBW**
**2437MHz**

02/12/2019

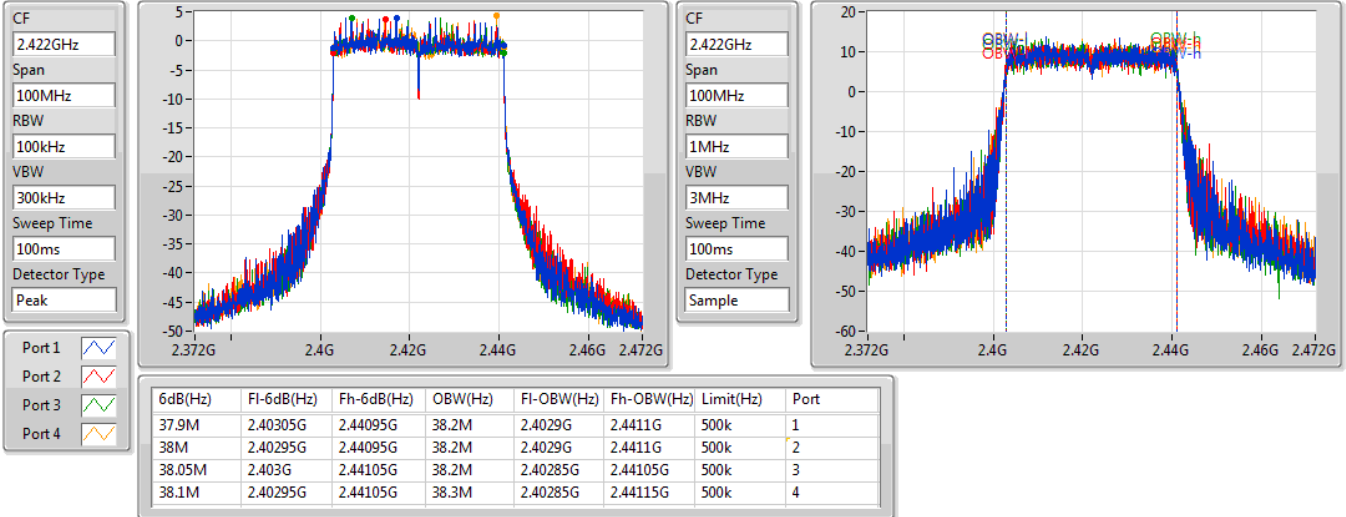

**802.11ax HEW20\_Nss1,(MCS0)\_4TX**
**EBW**
**2462MHz**

02/12/2019

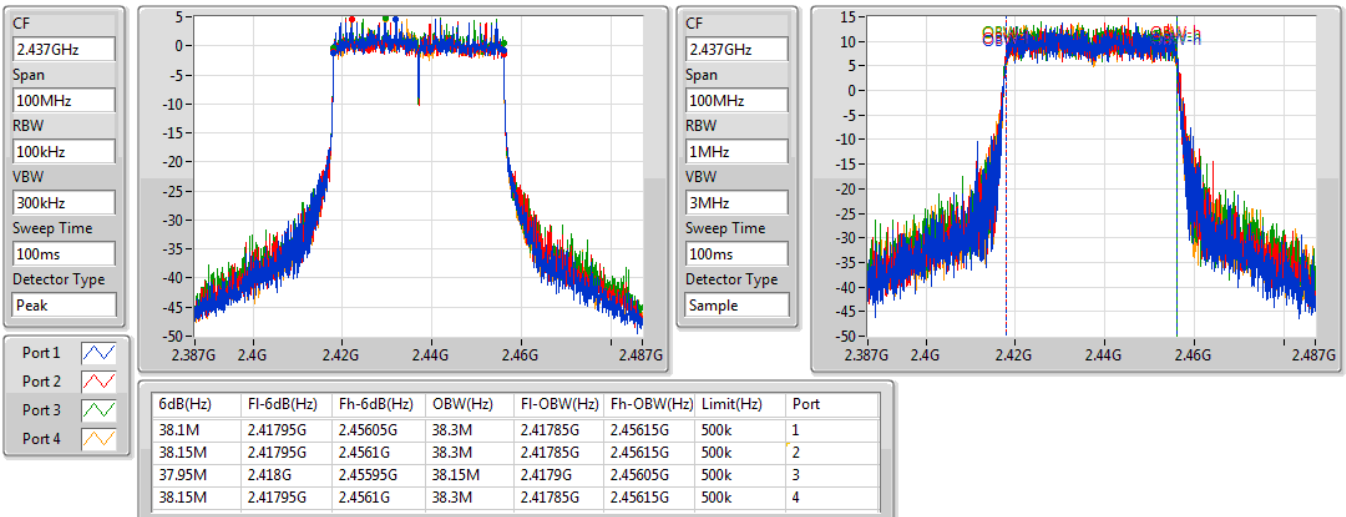


**802.11ax HEW40\_Nss1,(MCS0)\_4TX**
**EBW**
**2422MHz**

02/12/2019


**802.11ax HEW40\_Nss1,(MCS0)\_4TX**
**EBW**
**2437MHz**

02/12/2019

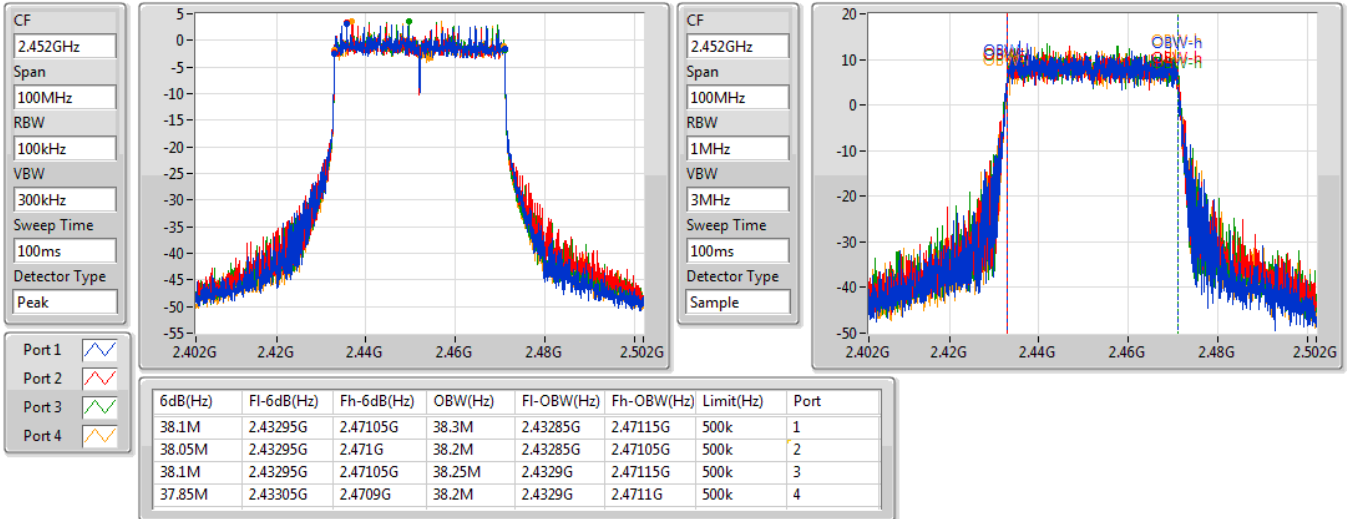


## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

2452MHz

02/12/2019





**Summary**

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) |
|--------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                  | -                    | -                  |
| 802.11b_Nss1,(1Mbps)_1TX       | 23.33                | 0.21528            |
| 802.11b_Nss1,(1Mbps)_1TX       | 23.69                | 0.23388            |
| 802.11b_Nss1,(1Mbps)_1TX       | 22.73                | 0.18750            |
| 802.11b_Nss1,(1Mbps)_1TX       | 23.38                | 0.21777            |
| 802.11g_Nss1,(6Mbps)_4TX       | 29.78                | 0.95060            |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 29.88                | 0.97275            |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 25.83                | 0.38282            |



## Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Port 4<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -               | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.80        | 23.33           | -               | -               | -               | 23.33                | 30.00                |
| 2437MHz                        | Pass   | 2.80        | 21.22           | -               | -               | -               | 21.22                | 30.00                |
| 2462MHz                        | Pass   | 2.80        | 21.07           | -               | -               | -               | 21.07                | 30.00                |
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -               | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.80        | -               | 20.23           | -               | -               | 20.23                | 30.00                |
| 2437MHz                        | Pass   | 2.80        | -               | 22.29           | -               | -               | 22.29                | 30.00                |
| 2462MHz                        | Pass   | 2.80        | -               | 23.69           | -               | -               | 23.69                | 30.00                |
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -               | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.80        | -               | -               | 22.73           | -               | 22.73                | 30.00                |
| 2437MHz                        | Pass   | 2.80        | -               | -               | 21.78           | -               | 21.78                | 30.00                |
| 2462MHz                        | Pass   | 2.80        | -               | -               | 21.61           | -               | 21.61                | 30.00                |
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -               | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.80        | -               | -               | -               | 22.65           | 22.65                | 30.00                |
| 2437MHz                        | Pass   | 2.80        | -               | -               | -               | 23.38           | 23.38                | 30.00                |
| 2462MHz                        | Pass   | 2.80        | -               | -               | -               | 23.31           | 23.31                | 30.00                |
| 802.11g_Nss1,(6Mbps)_4TX       | -      | -           | -               | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.80        | 14.88           | 14.95           | 14.81           | 14.61           | 20.83                | 30.00                |
| 2417MHz                        | Pass   | 2.80        | 23.32           | 23.16           | 23.40           | 23.17           | 29.28                | 30.00                |
| 2437MHz                        | Pass   | 2.80        | 23.76           | 23.60           | 23.86           | 23.83           | 29.78                | 30.00                |
| 2457MHz                        | Pass   | 2.80        | 23.08           | 23.04           | 22.86           | 23.11           | 29.04                | 30.00                |
| 2462MHz                        | Pass   | 2.80        | 14.89           | 15.16           | 14.73           | 14.98           | 20.96                | 30.00                |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 2.80        | 19.56           | 19.91           | 19.79           | 19.82           | 25.79                | 30.00                |
| 2417MHz                        | Pass   | 2.80        | 21.41           | 21.74           | 21.58           | 21.85           | 27.67                | 30.00                |
| 2437MHz                        | Pass   | 2.80        | 23.71           | 23.99           | 23.89           | 23.84           | 29.88                | 30.00                |
| 2457MHz                        | Pass   | 2.80        | 20.56           | 20.25           | 20.21           | 20.52           | 26.41                | 30.00                |
| 2462MHz                        | Pass   | 2.80        | 19.70           | 20.09           | 19.96           | 20.00           | 25.96                | 30.00                |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                    | -                    |
| 2422MHz                        | Pass   | 2.80        | 18.24           | 18.46           | 18.55           | 18.67           | 24.50                | 30.00                |
| 2437MHz                        | Pass   | 2.80        | 19.64           | 19.63           | 20.18           | 19.77           | 25.83                | 30.00                |
| 2452MHz                        | Pass   | 2.80        | 18.31           | 18.39           | 18.62           | 18.44           | 24.46                | 30.00                |

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

**Summary**

| Mode                           | PD<br>(dBm/RBW) |
|--------------------------------|-----------------|
| 2.4-2.4835GHz                  | -               |
| 802.11b_Nss1,(1Mbps)_1TX       | 0.01            |
| 802.11b_Nss1,(1Mbps)_1TX       | 1.03            |
| 802.11b_Nss1,(1Mbps)_1TX       | -0.12           |
| 802.11b_Nss1,(1Mbps)_1TX       | 1.86            |
| 802.11g_Nss1,(6Mbps)_4TX       | 3.43            |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 2.83            |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | -5.23           |

RBW=3 kHz.

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | Port 3<br>(dBm/RBW) | Port 4<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -                   | -                   | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 2.80        | 0.01                | -                   | -                   | -                   | 0.01            | 8.00                  |
| 2437MHz                        | Pass   | 2.80        | -1.86               | -                   | -                   | -                   | -1.86           | 8.00                  |
| 2462MHz                        | Pass   | 2.80        | -1.99               | -                   | -                   | -                   | -1.99           | 8.00                  |
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -                   | -                   | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 2.80        | -                   | -2.56               | -                   | -                   | -2.56           | 8.00                  |
| 2437MHz                        | Pass   | 2.80        | -                   | 0.29                | -                   | -                   | 0.29            | 8.00                  |
| 2462MHz                        | Pass   | 2.80        | -                   | 1.03                | -                   | -                   | 1.03            | 8.00                  |
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -                   | -                   | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 2.80        | -                   | -                   | -0.12               | -                   | -0.12           | 8.00                  |
| 2437MHz                        | Pass   | 2.80        | -                   | -                   | -0.92               | -                   | -0.92           | 8.00                  |
| 2462MHz                        | Pass   | 2.80        | -                   | -                   | -0.64               | -                   | -0.64           | 8.00                  |
| 802.11b_Nss1,(1Mbps)_1TX       | -      | -           | -                   | -                   | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 2.80        | -                   | -                   | -                   | 0.24                | 0.24            | 8.00                  |
| 2437MHz                        | Pass   | 2.80        | -                   | -                   | -                   | 1.86                | 1.86            | 8.00                  |
| 2462MHz                        | Pass   | 2.80        | -                   | -                   | -                   | 1.02                | 1.02            | 8.00                  |
| 802.11g_Nss1,(6Mbps)_4TX       | -      | -           | -                   | -                   | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 8.82        | -11.17              | -11.22              | -10.57              | -10.62              | -5.37           | 5.18                  |
| 2437MHz                        | Pass   | 8.82        | -2.19               | -1.43               | -1.99               | -1.35               | 3.43            | 5.18                  |
| 2462MHz                        | Pass   | 8.82        | -11.13              | -10.93              | -10.71              | -10.40              | -5.03           | 5.18                  |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | -      | -           | -                   | -                   | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 8.82        | -3.01               | -2.84               | -2.88               | -2.82               | 2.83            | 5.18                  |
| 2437MHz                        | Pass   | 8.82        | -2.43               | -2.80               | -2.85               | -2.18               | 2.20            | 5.18                  |
| 2462MHz                        | Pass   | 8.82        | -7.09               | -7.15               | -7.60               | -7.05               | -1.66           | 5.18                  |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | -      | -           | -                   | -                   | -                   | -                   | -               | -                     |
| 2422MHz                        | Pass   | 8.82        | -11.61              | -11.25              | -10.51              | -11.14              | -5.54           | 5.18                  |
| 2437MHz                        | Pass   | 8.82        | -10.36              | -9.59               | -9.54               | -9.78               | -5.23           | 5.18                  |
| 2452MHz                        | Pass   | 8.82        | -11.83              | -11.44              | -11.46              | -10.53              | -6.79           | 5.18                  |

**DG** = Directional Gain; RBW=3 kHz;

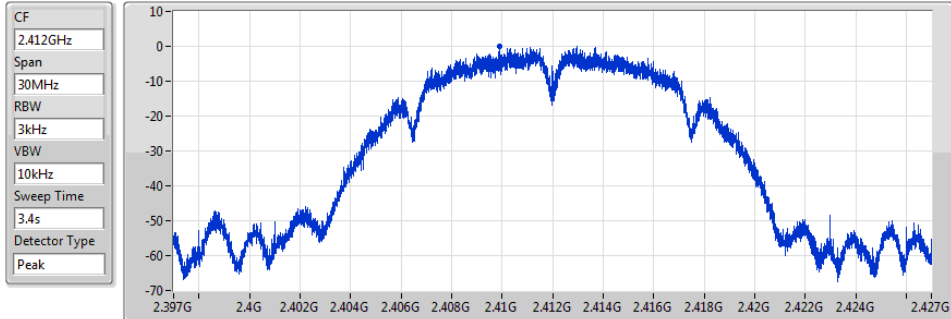
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

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

PSD

2412MHz

02/12/2019



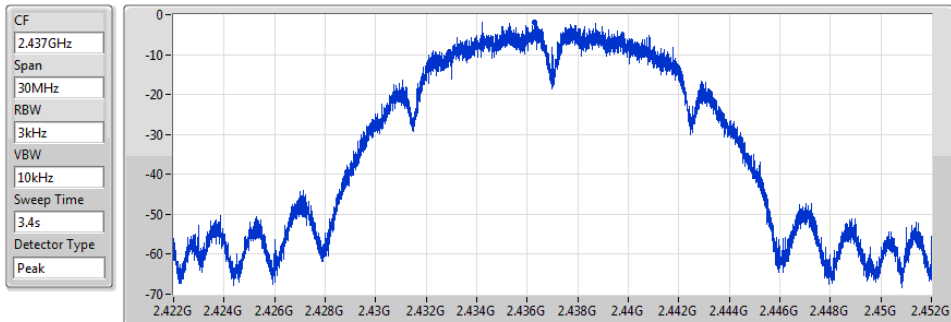
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.01      | 0.01      | 0.01      |

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

PSD

2437MHz

02/12/2019



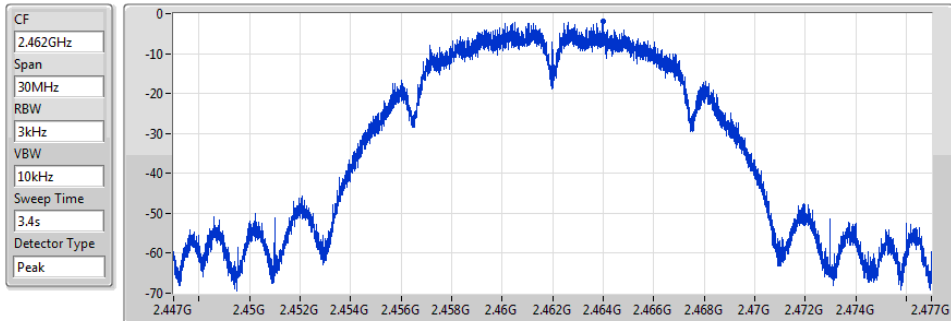
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.86     | -1.86     | -1.86     |

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

PSD

2462MHz

02/12/2019



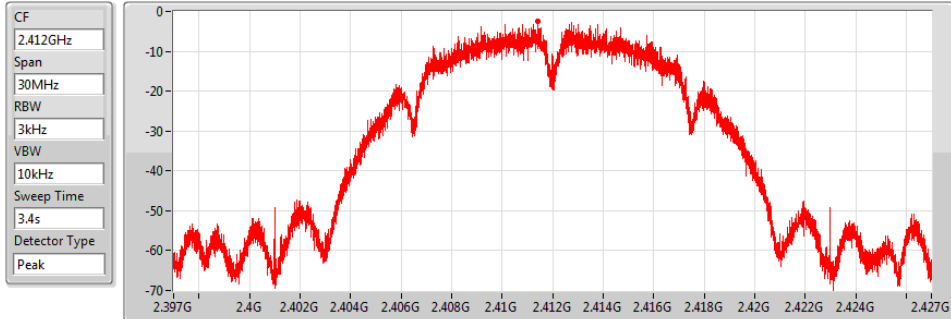
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.99     | -1.99     | -1.99     |

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

PSD

2412MHz

02/12/2019



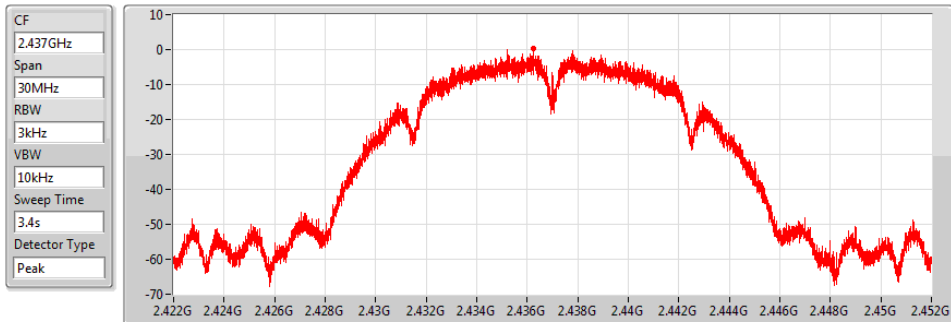
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -2.56    | -2.56    |          | -2.56    |

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

PSD

2437MHz

02/12/2019



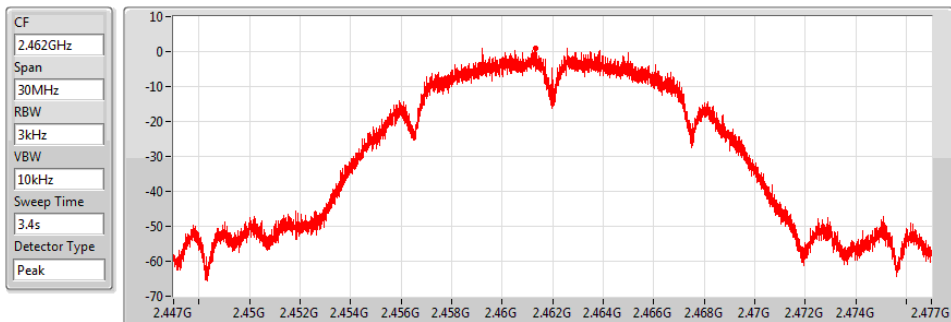
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 0.29     | 0.29     |          | 0.29     |

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

PSD

2462MHz

02/12/2019



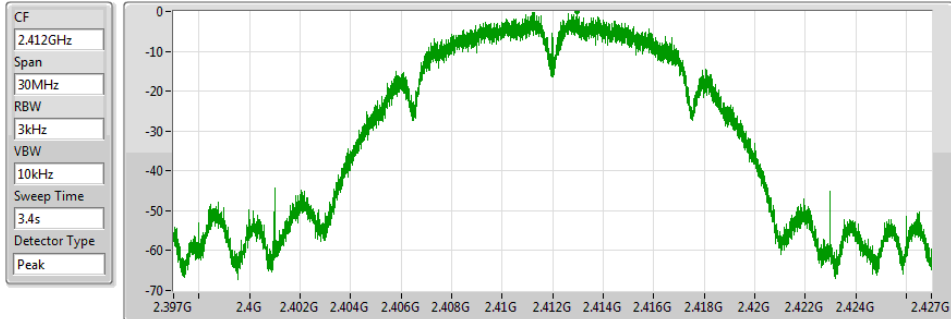
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 1.03     | 1.03     |          | 1.03     |

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

PSD

2412MHz

02/12/2019



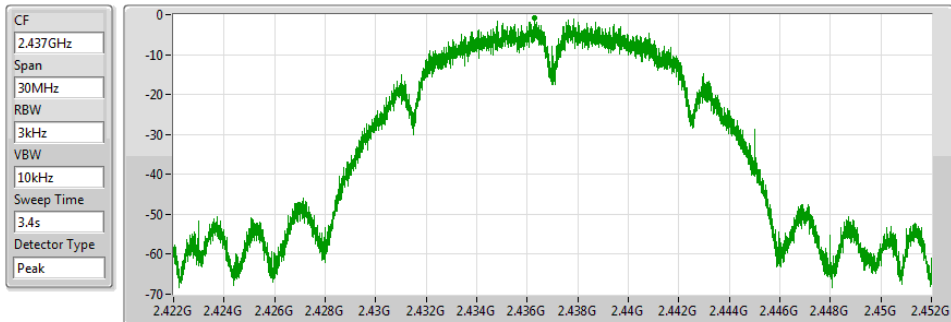
| Sum      | PD       | Port 1   | Port 2   | Port 3   |
|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -0.12    | -0.12    |          |          | -0.12    |

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

PSD

2437MHz

02/12/2019



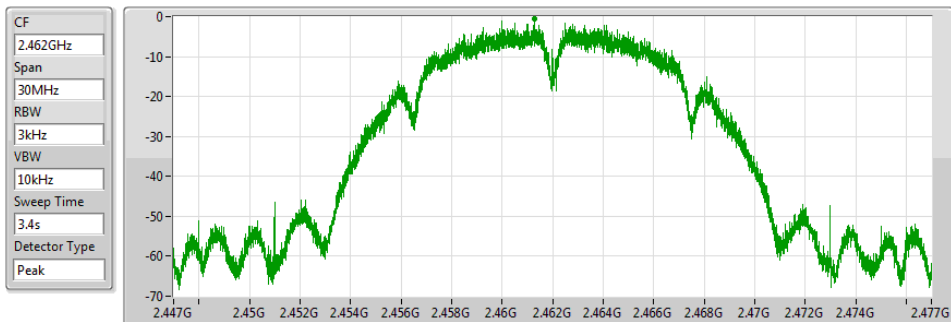
| Sum      | PD       | Port 1   | Port 2   | Port 3   |
|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -0.92    | -0.92    |          |          | -0.92    |

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

PSD

2462MHz

02/12/2019



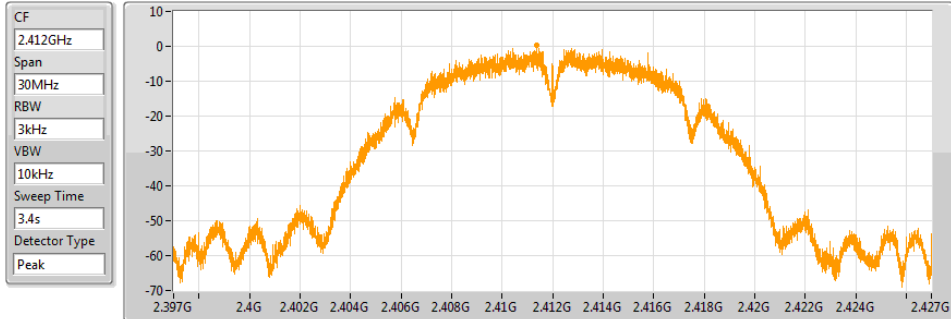
| Sum      | PD       | Port 1   | Port 2   | Port 3   |
|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -0.64    | -0.64    |          |          | -0.64    |

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

PSD

2412MHz

02/12/2019



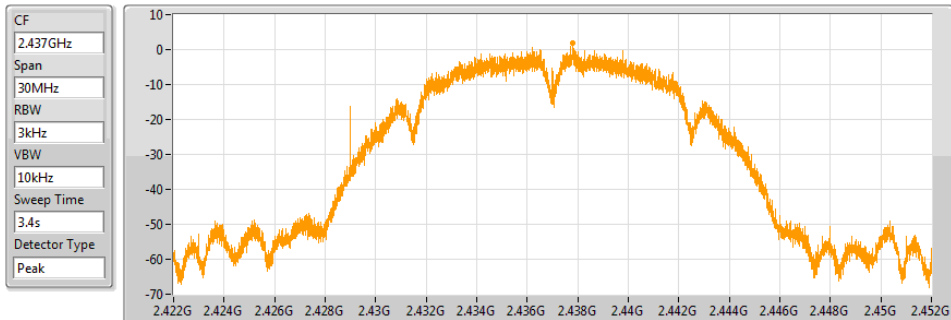
| Sum          | PD           | Port 1       | Port 2       | Port 3       | Port 4       |
|--------------|--------------|--------------|--------------|--------------|--------------|
| (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) |
| 0.24         | 0.24         |              |              |              | 0.24         |

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

PSD

2437MHz

02/12/2019



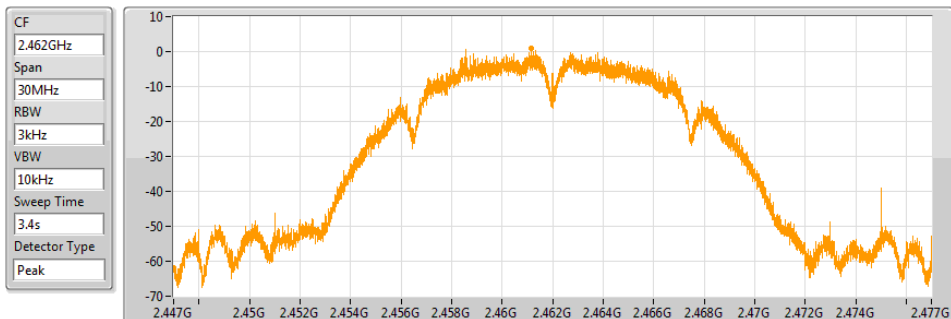
| Sum          | PD           | Port 1       | Port 2       | Port 3       | Port 4       |
|--------------|--------------|--------------|--------------|--------------|--------------|
| (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) |
| 1.86         | 1.86         |              |              |              | 1.86         |

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

PSD

2462MHz

02/12/2019



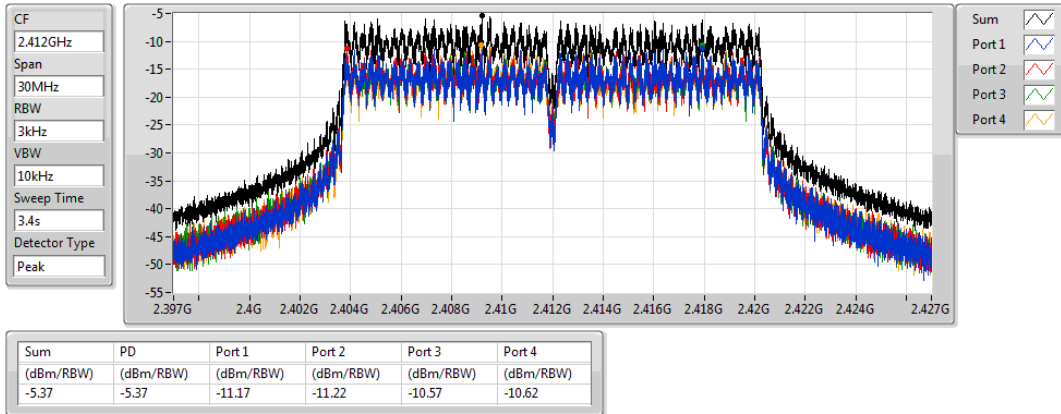
| Sum          | PD           | Port 1       | Port 2       | Port 3       | Port 4       |
|--------------|--------------|--------------|--------------|--------------|--------------|
| (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) |
| 1.02         | 1.02         |              |              |              | 1.02         |

## 802.11g\_Nss1,(6Mbps)\_4TX

## PSD

2412MHz

02/12/2019

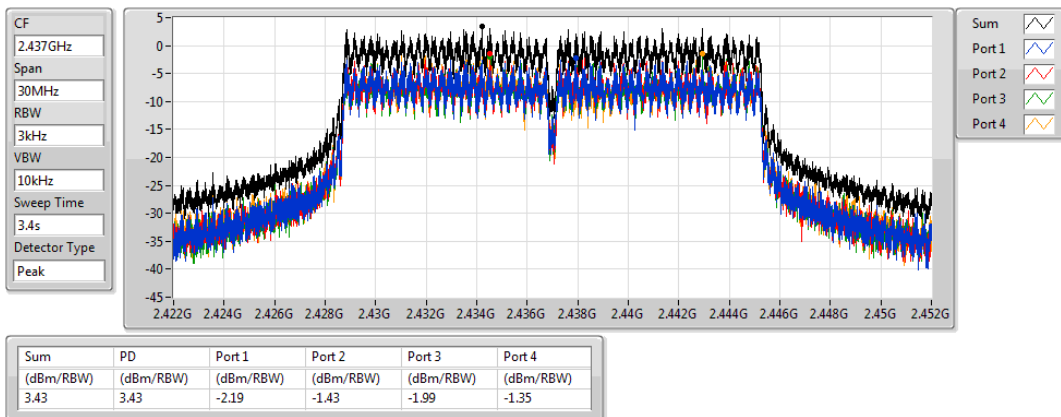


## 802.11g\_Nss1,(6Mbps)\_4TX

## PSD

2437MHz

02/12/2019

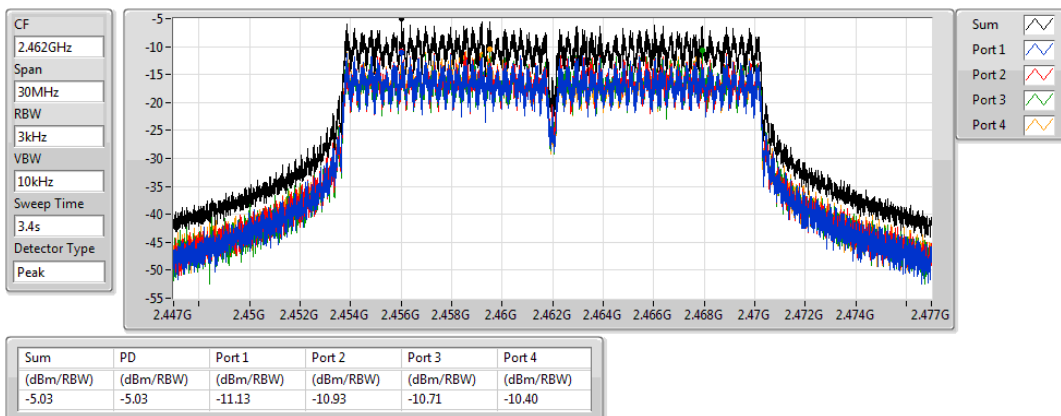


## 802.11g\_Nss1,(6Mbps)\_4TX

## PSD

2462MHz

02/12/2019



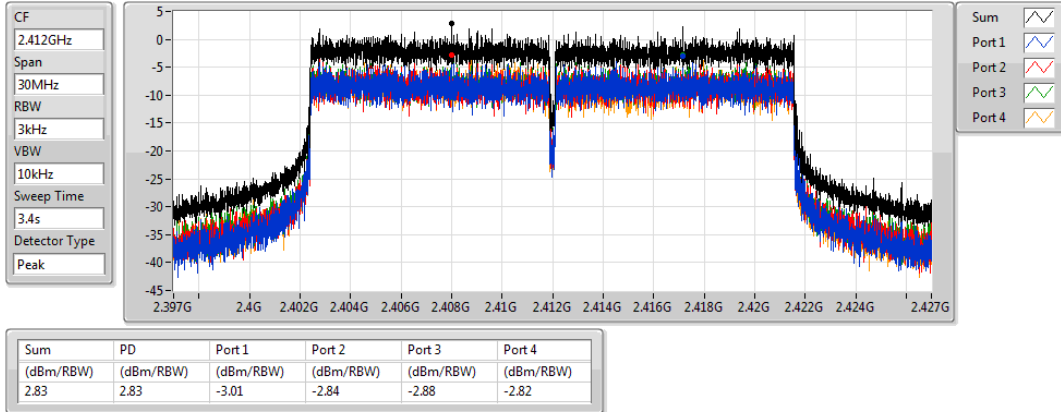


## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

2412MHz

02/12/2019

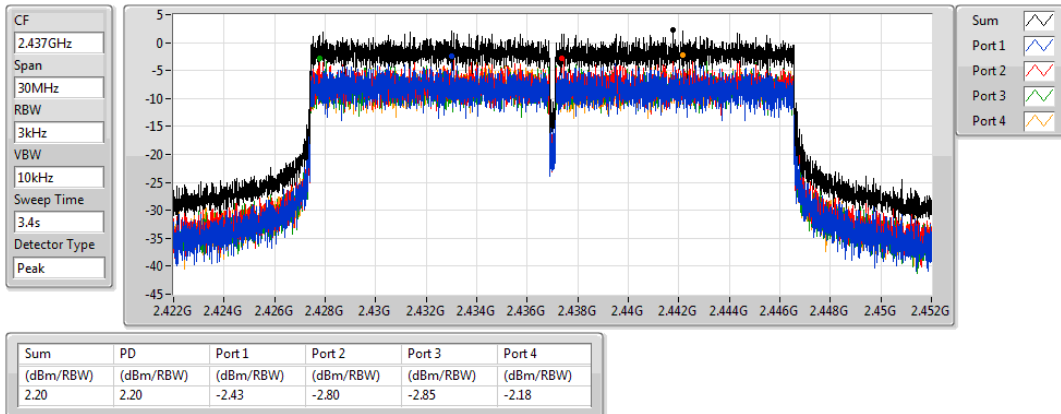


## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

2437MHz

02/12/2019

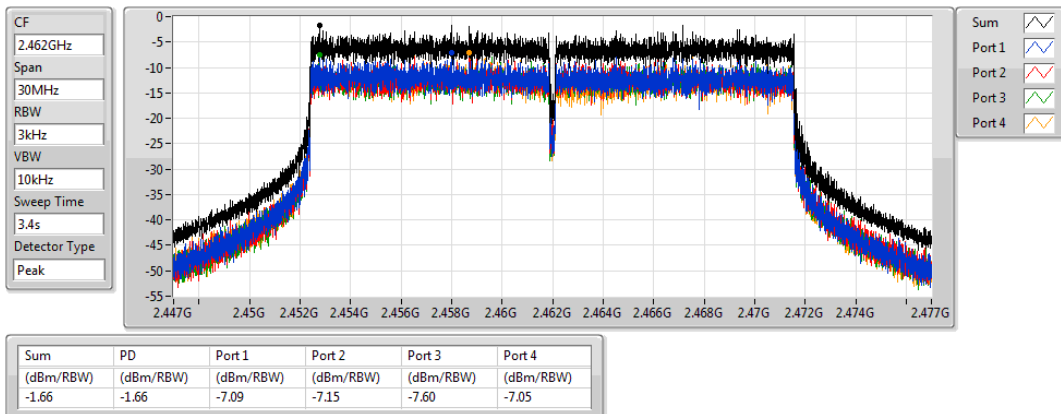


## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

2462MHz

02/12/2019

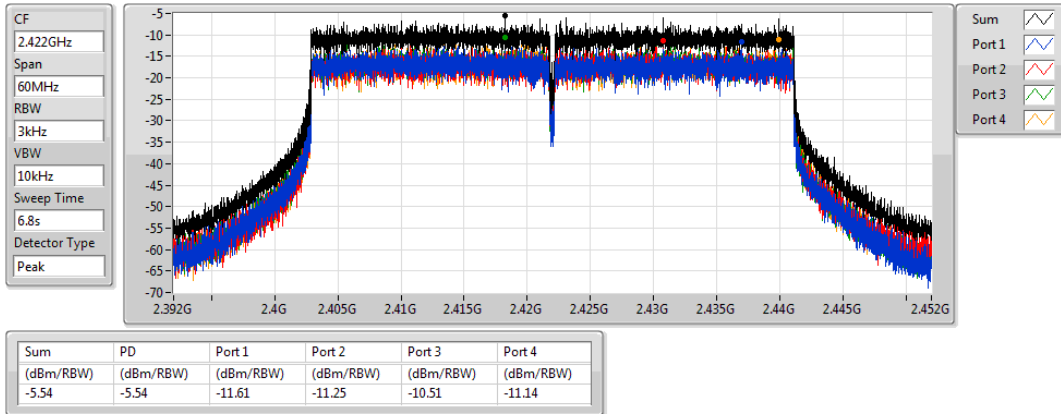


## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

2422MHz

02/12/2019

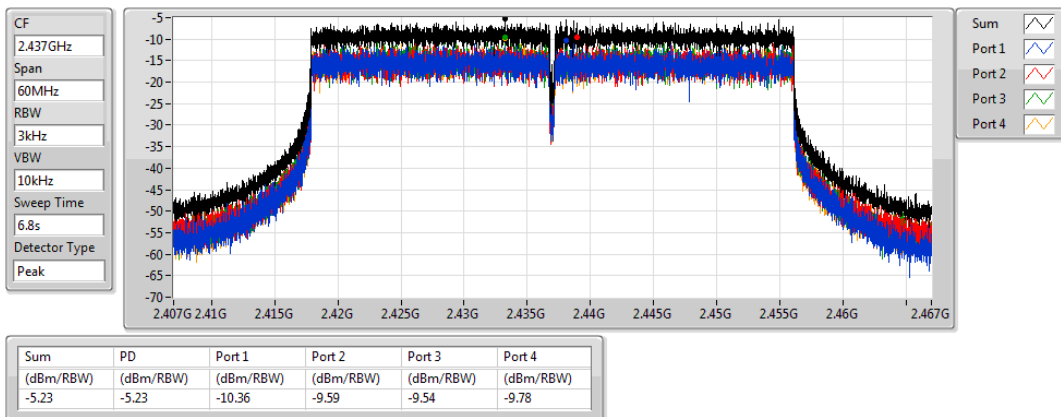


## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

2437MHz

02/12/2019

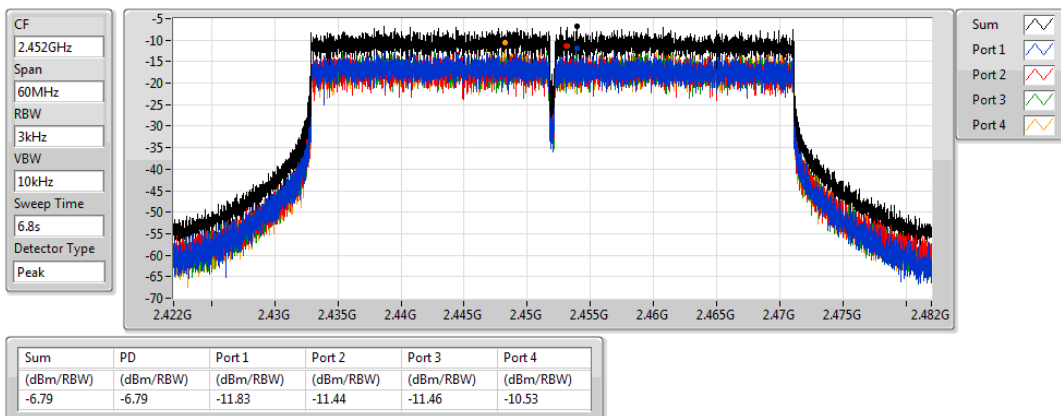


## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

2452MHz

02/12/2019



**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) | Port |
|--------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz                  | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 802.11b_Nss1,(1Mbps)_1TX       | Pass   | 2.41148G    | 14.50        | -15.50         | 673.66M      | -35.20         | 2.39852G     | -32.43         | 2.497G       | -40.19         | 24.81457G    | -35.51         | 1    |
| 802.11b_Nss1,(1Mbps)_1TX       | Pass   | 2.46304G    | 14.67        | -15.33         | 673.66M      | -41.35         | 2.39998G     | -35.10         | 2.50804G     | -41.35         | 21.70719G    | -36.18         | 2    |
| 802.11b_Nss1,(1Mbps)_1TX       | Pass   | 2.41148G    | 14.01        | -15.99         | 673.66M      | -38.17         | 2.39856G     | -33.13         | 2.49298G     | -40.38         | 17.11637G    | -35.91         | 3    |
| 802.11b_Nss1,(1Mbps)_1TX       | Pass   | 2.43799G    | 14.26        | -15.74         | 673.66M      | -38.04         | 2.39854G     | -34.84         | 2.50404G     | -40.15         | 24.98876G    | -35.64         | 4    |
| 802.11g_Nss1,(6Mbps)_4TX       | Pass   | 2.43073G    | 12.41        | -17.59         | 1.77867G     | -42.09         | 2.39998G     | -24.07         | 2.49956G     | -41.70         | 2.56002G     | -36.27         | 4    |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | Pass   | 2.43073G    | 12.40        | -17.60         | 2.02594G     | -40.48         | 2.3994G      | -21.23         | 2.5016G      | -41.75         | 21.87015G    | -36.84         | 2    |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | Pass   | 2.44075G    | 4.86         | -25.14         | 1.74263G     | -42.16         | 2.39996G     | -25.80         | 2.51798G     | -42.42         | 24.04645G    | -35.67         | 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) | Port |
|--------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_Nss1.(1Mbps)_1TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.41148G    | 14.50        | -15.50         | 673.66M      | -35.20         | 2.39852G     | -32.43         | 2.497G       | -40.19         | 24.81457G    | -35.51         | 1    |
| 2437MHz                        | Pass   | 2.41148G    | 14.50        | -15.50         | 698.71M      | -40.56         | 2.39638G     | -40.82         | 2.52202G     | -41.13         | 21.87015G    | -35.99         | 1    |
| 2462MHz                        | Pass   | 2.41148G    | 14.50        | -15.50         | 723.76M      | -40.46         | 2.3913G      | -41.73         | 2.49764G     | -40.39         | 21.93196G    | -35.45         | 1    |
| 802.11b_Nss1.(1Mbps)_1TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.46304G    | 14.67        | -15.33         | 673.66M      | -41.35         | 2.39998G     | -35.10         | 2.50804G     | -41.35         | 21.70719G    | -36.18         | 2    |
| 2437MHz                        | Pass   | 2.46304G    | 14.67        | -15.33         | 698.71M      | -39.33         | 2.39542G     | -40.34         | 2.52154G     | -40.20         | 23.51655G    | -36.42         | 2    |
| 2462MHz                        | Pass   | 2.46304G    | 14.67        | -15.33         | 723.76M      | -36.44         | 2.396G       | -39.56         | 2.48812G     | -39.57         | 21.63695G    | -36.52         | 2    |
| 802.11b_Nss1.(1Mbps)_1TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.41148G    | 14.01        | -15.99         | 673.66M      | -38.17         | 2.39856G     | -33.13         | 2.49298G     | -40.38         | 17.11637G    | -35.91         | 3    |
| 2437MHz                        | Pass   | 2.41148G    | 14.01        | -15.99         | 698.71M      | -40.38         | 2.39898G     | -40.21         | 2.52198G     | -40.99         | 21.85891G    | -36.25         | 3    |
| 2462MHz                        | Pass   | 2.41148G    | 14.01        | -15.99         | 723.76M      | -39.87         | 2.392G       | -40.52         | 2.498G       | -40.97         | 24.33413G    | -36.47         | 3    |
| 802.11b_Nss1.(1Mbps)_1TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43799G    | 14.26        | -15.74         | 673.66M      | -38.04         | 2.39854G     | -34.84         | 2.50404G     | -40.15         | 24.98876G    | -35.64         | 4    |
| 2437MHz                        | Pass   | 2.43799G    | 14.26        | -15.74         | 698.71M      | -37.10         | 2.396G       | -40.36         | 2.522G       | -40.31         | 21.71843G    | -36.08         | 4    |
| 2462MHz                        | Pass   | 2.43799G    | 14.26        | -15.74         | 723.76M      | -38.45         | 2.39002G     | -41.46         | 2.487G       | -40.62         | 24.99438G    | -36.36         | 4    |
| 802.11g_Nss1.(6Mbps)_4TX       | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 598.23M      | -42.81         | 2.39984G     | -25.09         | 2.50282G     | -42.48         | 21.62291G    | -36.54         | 1    |
| 2412MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 1.88177G     | -42.35         | 2.39964G     | -26.06         | 2.5116G      | -41.22         | 24.98033G    | -36.28         | 2    |
| 2412MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 680.65M      | -42.30         | 2.39948G     | -25.20         | 2.50344G     | -41.64         | 21.92634G    | -37.24         | 3    |
| 2412MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 1.77867G     | -42.09         | 2.39998G     | -24.07         | 2.49956G     | -41.70         | 2.56002G     | -36.27         | 4    |
| 2437MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 531.82M      | -42.44         | 2.39808G     | -39.87         | 2.4958G      | -41.67         | 24.96909G    | -36.55         | 1    |
| 2437MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 2.30525G     | -42.21         | 2.39366G     | -40.45         | 2.50198G     | -42.02         | 21.98815G    | -36.06         | 2    |
| 2437MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 1.65401G     | -42.03         | 2.39816G     | -40.66         | 2.5136G      | -41.56         | 21.85891G    | -36.13         | 3    |
| 2437MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 1.63916G     | -42.60         | 2.3957G      | -40.69         | 2.51172G     | -41.26         | 21.61729G    | -36.75         | 4    |
| 2462MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 604.35M      | -42.75         | 2.39266G     | -41.38         | 2.48422G     | -27.39         | 21.71281G    | -36.84         | 1    |
| 2462MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 509.11M      | -41.78         | 2.39562G     | -41.23         | 2.48388G     | -25.08         | 24.54204G    | -36.40         | 2    |
| 2462MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 421.15M      | -42.76         | 2.39658G     | -41.80         | 2.48356G     | -27.60         | 24.98033G    | -36.77         | 3    |
| 2462MHz                        | Pass   | 2.43073G    | 12.41        | -17.59         | 140.68M      | -42.39         | 2.39816G     | -41.87         | 2.4836G      | -27.71         | 2.56002G     | -35.87         | 4    |
| 802.11ax HEW20_Nss1.(MCS0)_4TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 336.4M       | -42.16         | 2.39996G     | -21.59         | 2.51204G     | -41.61         | 24.99719G    | -36.99         | 1    |
| 2412MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 2.02594G     | -40.48         | 2.3994G      | -21.23         | 2.5016G      | -41.75         | 21.87015G    | -36.84         | 2    |
| 2412MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 1.86662G     | -42.92         | 2.39904G     | -21.33         | 2.51938G     | -41.36         | 24.94943G    | -35.89         | 3    |
| 2412MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 2.19719G     | -42.43         | 2.3997G      | -21.43         | 2.5028G      | -41.16         | 23.49688G    | -36.66         | 4    |
| 2437MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 39.03M       | -42.36         | 2.3997G      | -39.49         | 2.48912G     | -41.26         | 24.21332G    | -35.83         | 1    |
| 2437MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 208.83M      | -42.10         | 2.39964G     | -39.14         | 2.52224G     | -40.48         | 23.59803G    | -36.30         | 2    |
| 2437MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 687.64M      | -41.26         | 2.39974G     | -38.90         | 2.4902G      | -41.26         | 21.40938G    | -36.38         | 3    |
| 2437MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 366.1M       | -41.75         | 2.39604G     | -37.91         | 2.48484G     | -41.17         | 2.56002G     | -34.70         | 4    |
| 2462MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 64.95M       | -41.47         | 2.39792G     | -42.34         | 2.48398G     | -36.45         | 24.91852G    | -36.37         | 1    |
| 2462MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 2.05302G     | -42.80         | 2.39608G     | -42.02         | 2.4838G      | -34.31         | 24.99438G    | -36.53         | 2    |
| 2462MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 69.9M        | -41.64         | 2.39588G     | -41.41         | 2.48422G     | -36.41         | 24.00822G    | -35.15         | 3    |
| 2462MHz                        | Pass   | 2.43073G    | 12.40        | -17.60         | 1.94147G     | -42.55         | 2.39958G     | -42.12         | 2.48354G     | -35.94         | 24.89886G    | -36.28         | 4    |
| 802.11ax HEW40_Nss1.(MCS0)_4TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2422MHz                        | Pass   | 2.44075G    | 4.86         | -25.14         | 1.74263G     | -42.16         | 2.39996G     | -25.80         | 2.51798G     | -42.42         | 24.04645G    | -35.67         | 1    |
| 2422MHz                        | Pass   | 2.44075G    | 4.86         | -25.14         | 627.98M      | -43.36         | 2.39928G     | -26.76         | 2.54586G     | -42.35         | 21.79999G    | -35.97         | 2    |
| 2422MHz                        | Pass   | 2.44075G    | 4.86         | -25.14         | 152.23M      | -42.65         | 2.39844G     | -27.45         | 2.5173G      | -41.62         | 24.00438G    | -37.21         | 3    |
| 2422MHz                        | Pass   | 2.44075G    | 4.86         | -25.14         | 143.36M      | -42.77         | 2.3998G      | -28.96         | 2.56002G     | -34.72         | 21.66538G    | -36.77         | 4    |
| 2437MHz                        | Pass   | 2.44075G    | 4.86         | -25.14         | 145.36M      | -42.48         | 2.39836G     | -36.91         | 2.56006G     | -41.74         | 24.91586G    | -36.87         | 1    |



## CSE(Non-restricted Band)

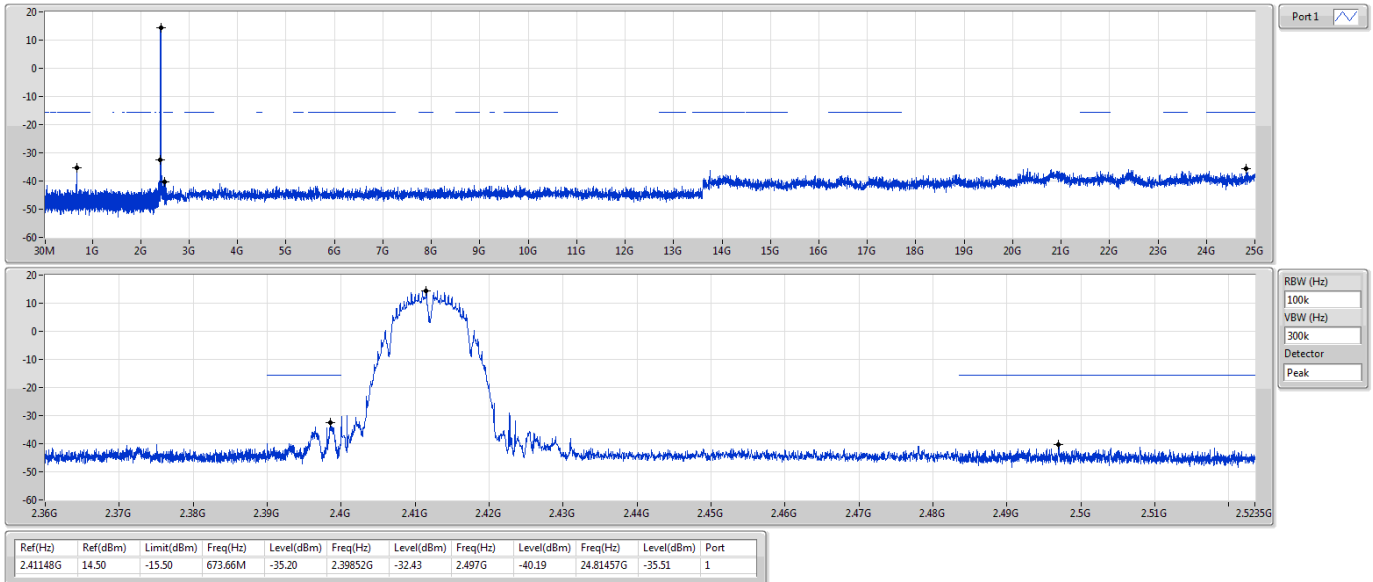
## Appendix E

| 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) | Port |
|---------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2437MHz | Pass   | 2.44075G    | 4.86         | -25.14         | 450.22M      | -42.39         | 2.39832G     | -33.04         | 2.48398G     | -40.33         | 23.57528G    | -36.46         | 2    |
| 2437MHz | Pass   | 2.44075G    | 4.86         | -25.14         | 2.12879G     | -43.08         | 2.3992G      | -33.04         | 2.48382G     | -39.72         | 24.99439G    | -35.78         | 3    |
| 2437MHz | Pass   | 2.44075G    | 4.86         | -25.14         | 547.25M      | -42.87         | 2.39924G     | -35.06         | 2.56002G     | -34.48         | 24.92428G    | -36.50         | 4    |
| 2452MHz | Pass   | 2.44075G    | 4.86         | -25.14         | 835.79M      | -42.57         | 2.39472G     | -42.75         | 2.48446G     | -40.30         | 21.76634G    | -36.49         | 1    |
| 2452MHz | Pass   | 2.44075G    | 4.86         | -25.14         | 2.13795G     | -42.49         | 2.398G       | -42.10         | 2.48518G     | -37.51         | 24.04084G    | -37.14         | 2    |
| 2452MHz | Pass   | 2.44075G    | 4.86         | -25.14         | 1.9224G      | -42.51         | 2.39184G     | -43.15         | 2.48546G     | -37.53         | 21.93461G    | -36.31         | 3    |
| 2452MHz | Pass   | 2.44075G    | 4.86         | -25.14         | 647.73M      | -42.67         | 2.39484G     | -42.68         | 2.56002G     | -35.10         | 23.42945G    | -36.69         | 4    |

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

CSE NdB

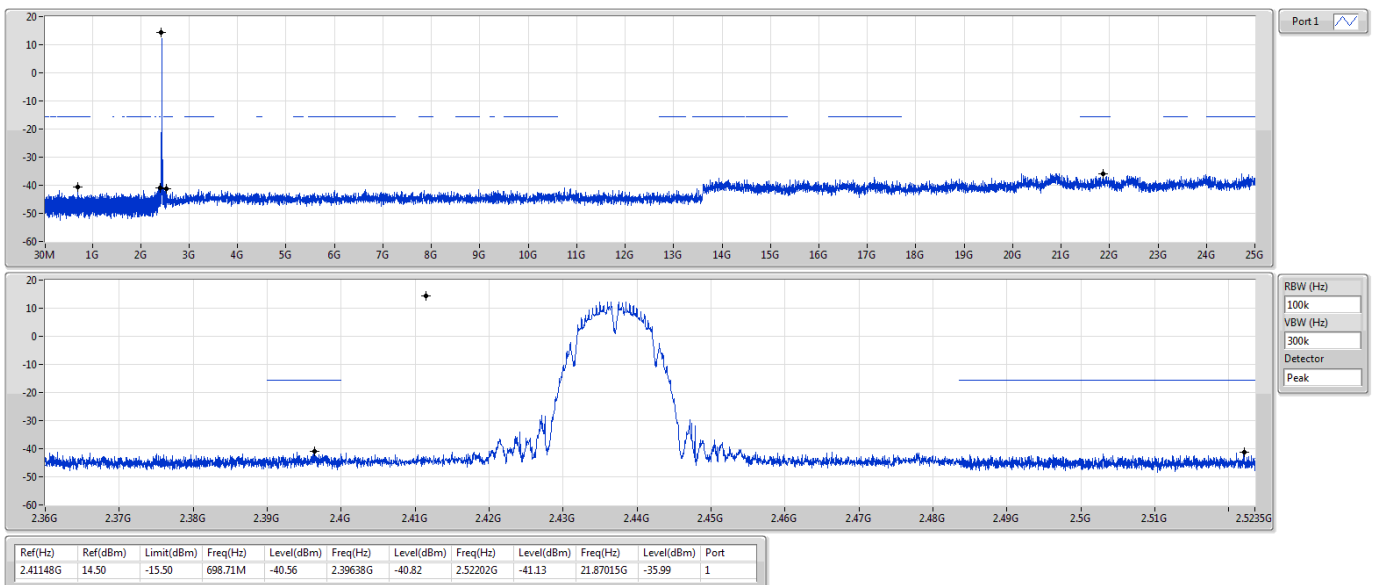
2412MHz



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

CSE NdB

2437MHz

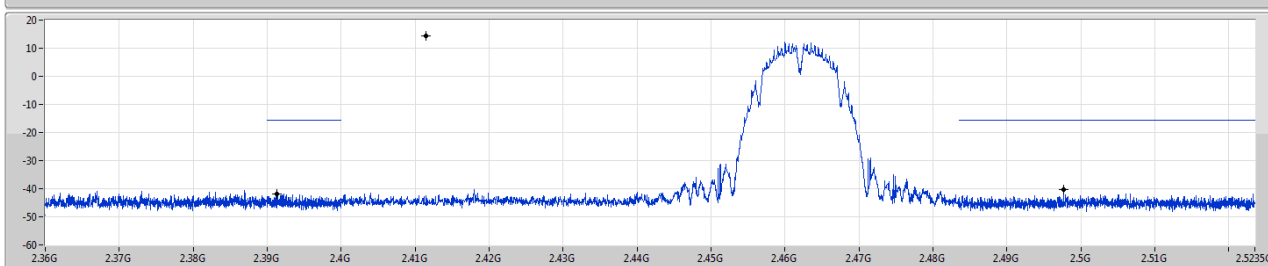
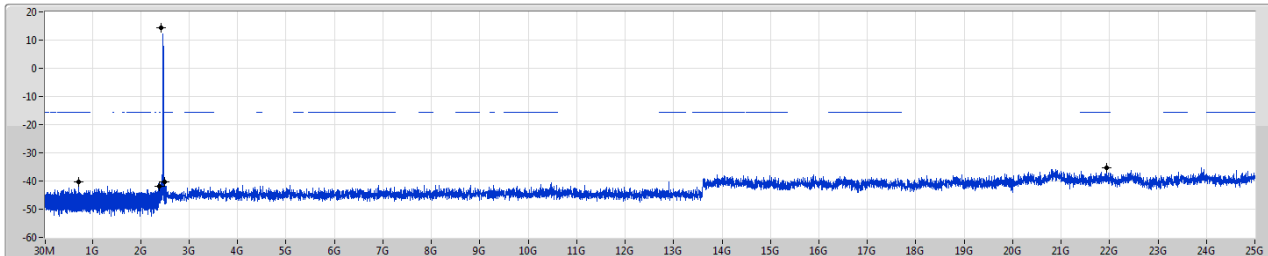


## 802.11b\_Nss1,(1Mbps)\_1TX

CSE NdB

2462MHz

02/12/2019



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

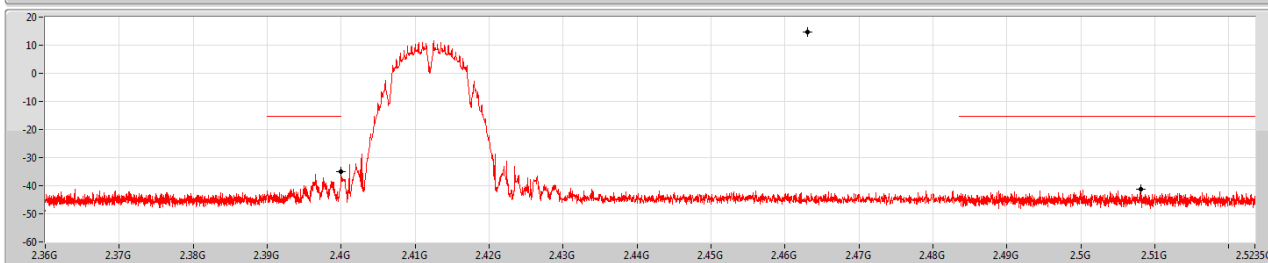
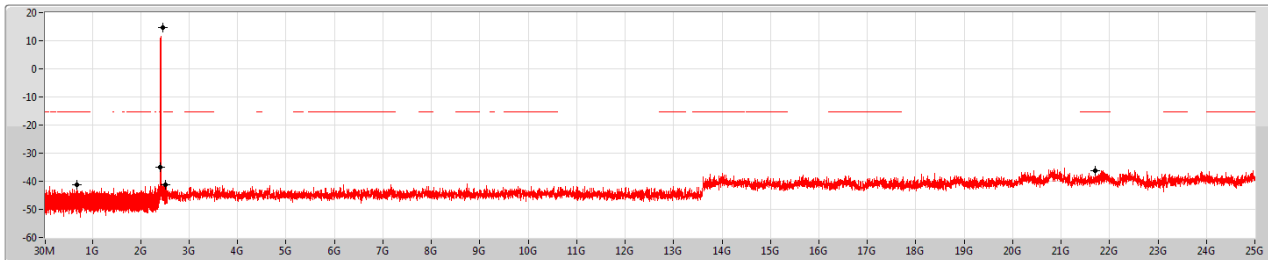
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.41148G | 14.50    | -15.50     | 723.76M  | -40.46     | 2.3913G  | -41.73     | 2.49764G | -40.39     | 21.93196G | -35.45     | 1    |

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

CSE NdB

2412MHz

02/12/2019



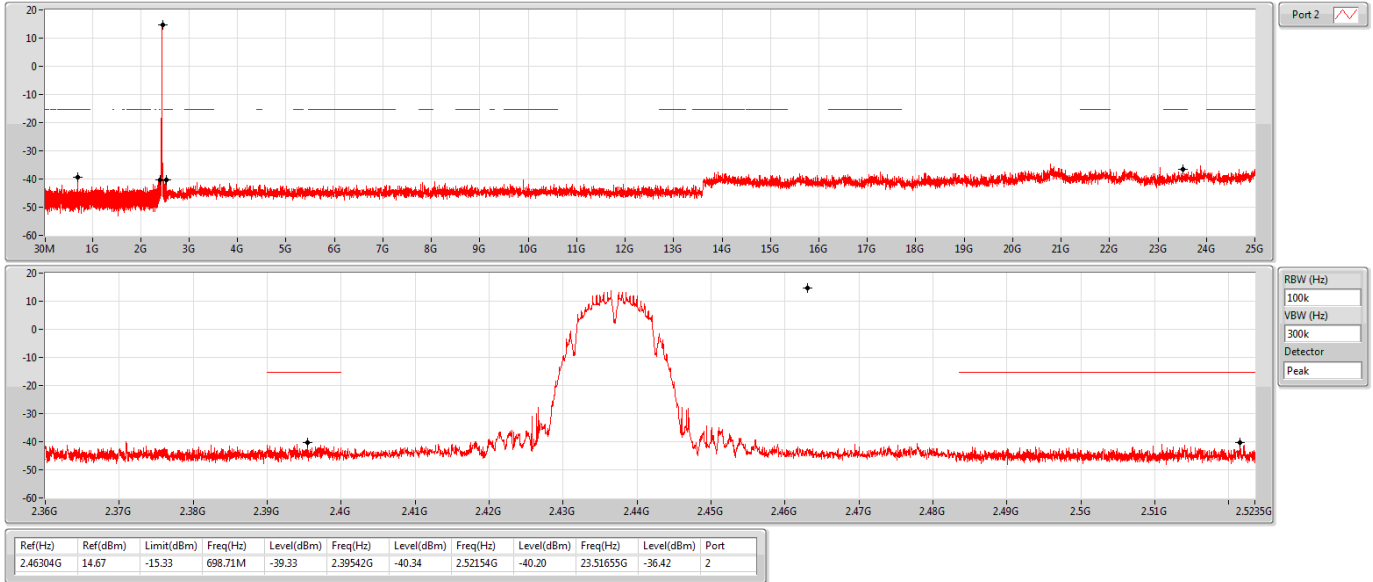
RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.46304G | 14.67    | -15.33     | 673.66M  | -41.35     | 2.39998G | -35.10     | 2.50804G | -41.35     | 21.70719G | -36.18     | 2    |

802.11b\_Nss1,(1Mbps)\_1TX

CSE NdB

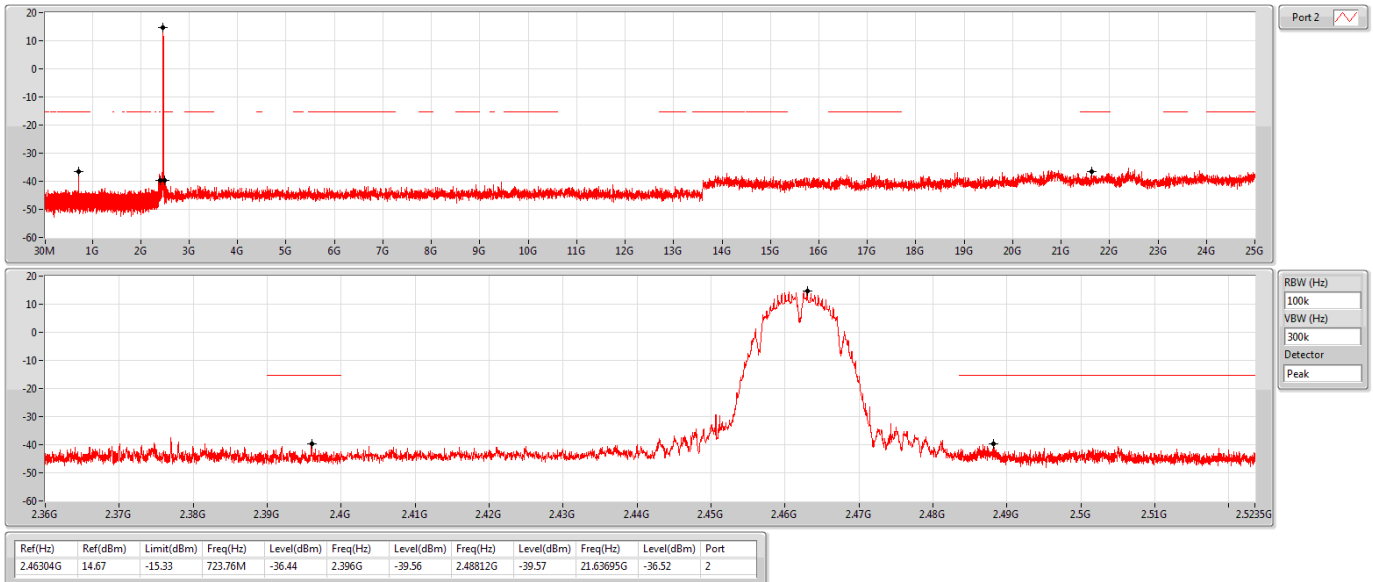
2437MHz



802.11b\_Nss1,(1Mbps)\_1TX

CSE NdB

2462MHz





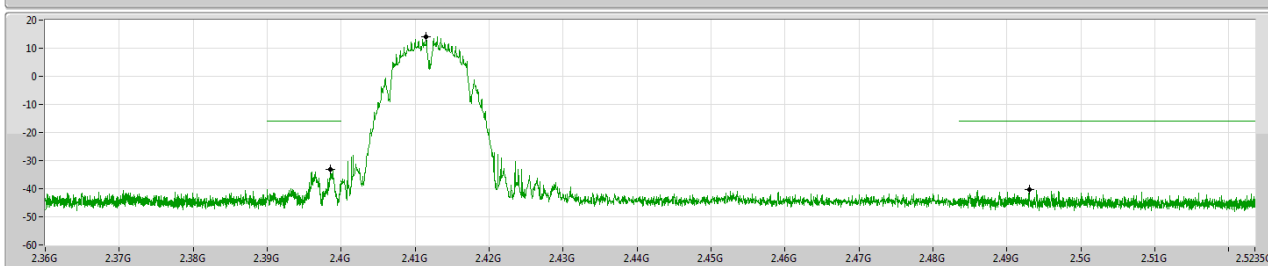
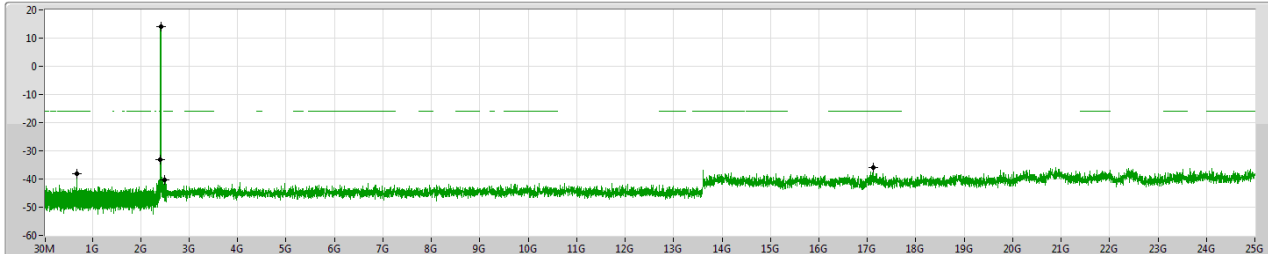
802.11b\_Nss1,(1Mbps)\_1TX

CSE NdB

2412MHz

02/12/2019

Port 3



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) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.41148G | 14.01    | -15.99     | 673.66M  | -38.17     | 2.39856G | -33.13     | 2.49298G | -40.38     | 17.11637G | -35.91     | 3    |

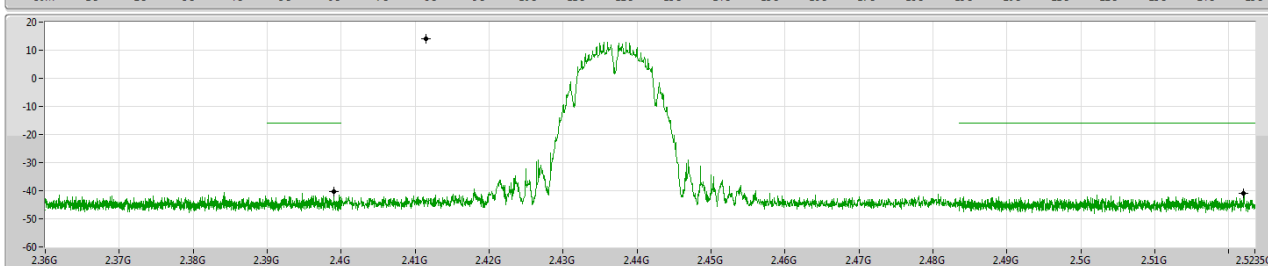
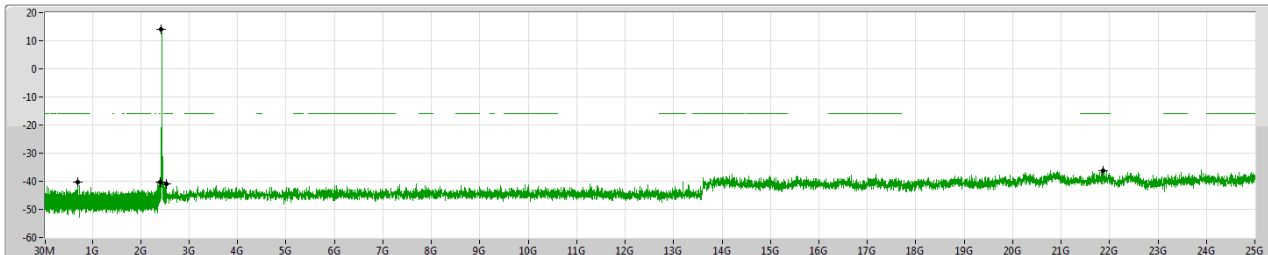
802.11b\_Nss1,(1Mbps)\_1TX

CSE NdB

2437MHz

02/12/2019

Port 3



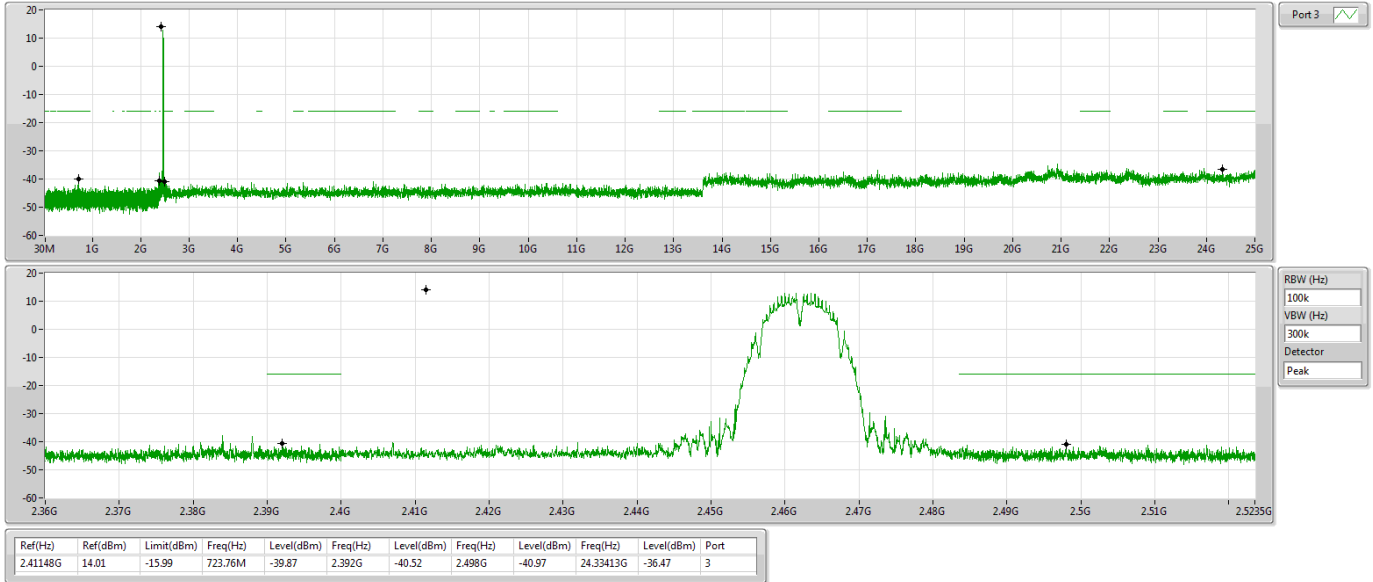
RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.41148G | 14.01    | -15.99     | 698.71M  | -40.38     | 2.39898G | -40.21     | 2.52198G | -40.99     | 21.85891G | -36.25     | 3    |

802.11b\_Nss1,(1Mbps)\_1TX

CSE NdB

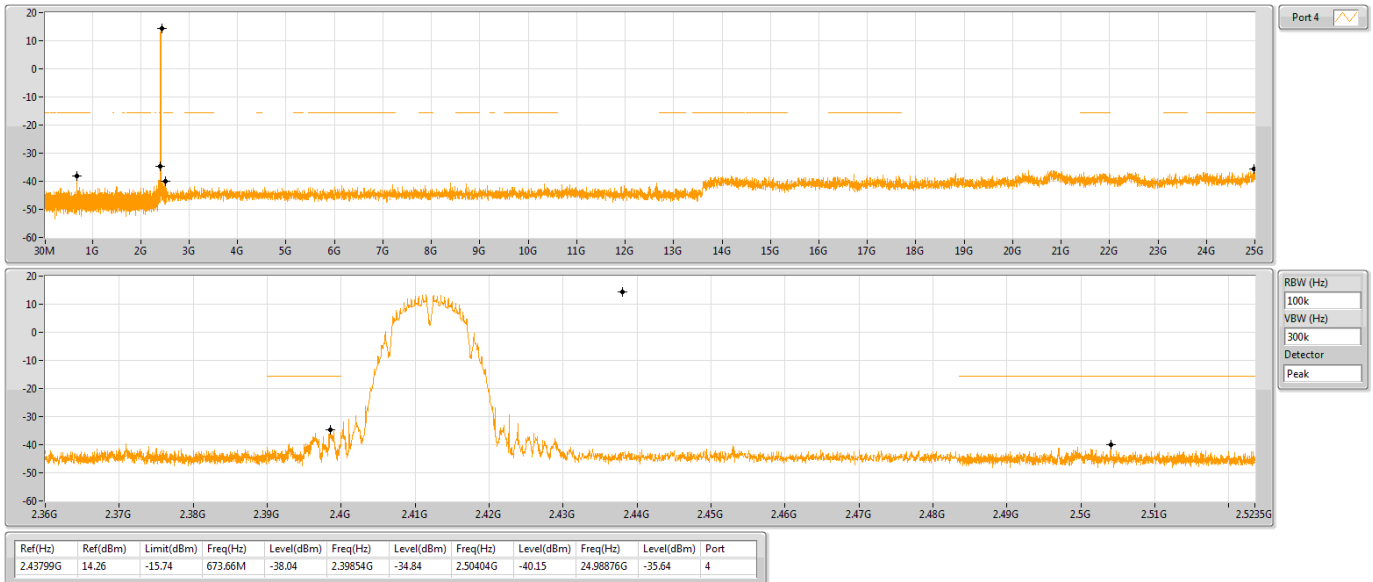
2462MHz



802.11b\_Nss1,(1Mbps)\_1TX

CSE NdB

2412MHz



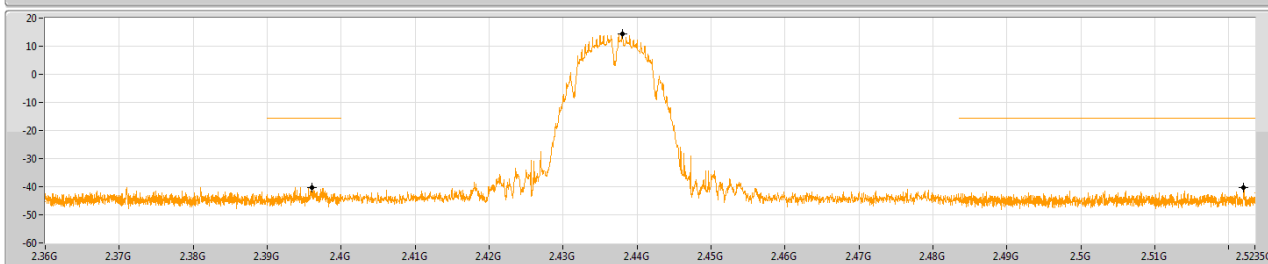
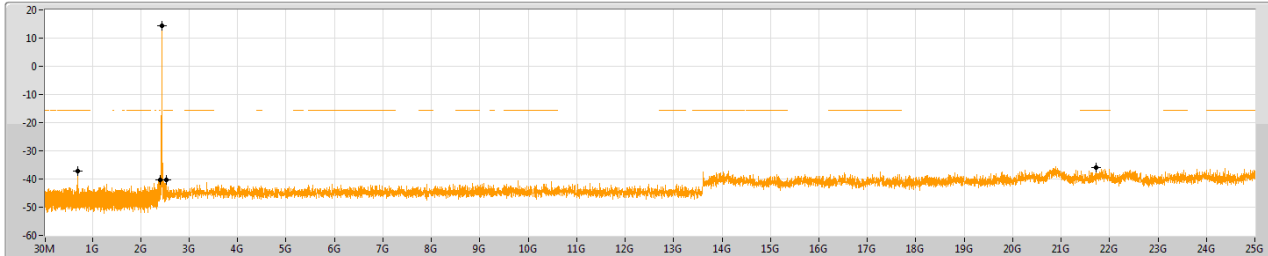
802.11b\_Nss1,(1Mbps)\_1TX

2437MHz

CSE NdB

02/12/2019

Port 4



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) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.43799G | 14.26    | -15.74     | 698.71M  | -37.10     | 2.396G   | -40.36     | 2.522G   | -40.31     | 2.171843G | -36.08     | 4    |

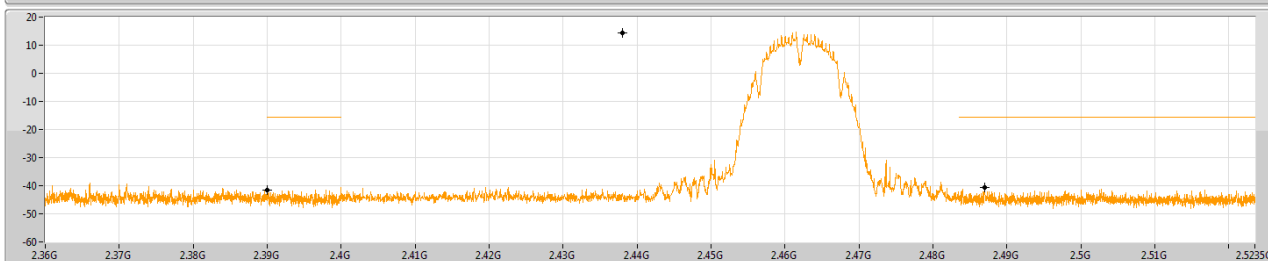
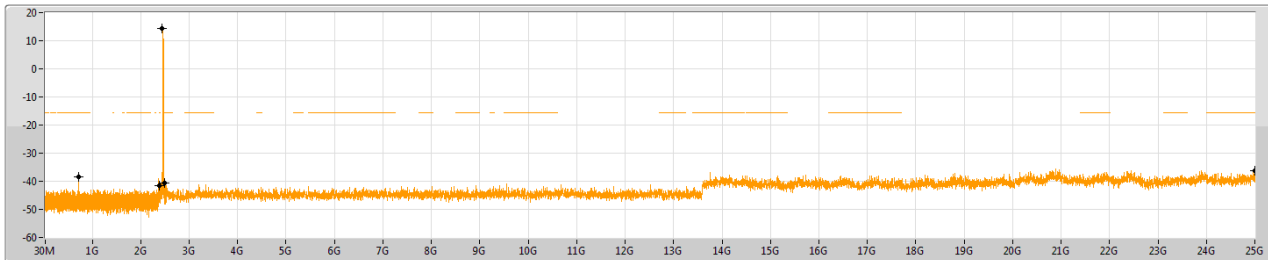
802.11b\_Nss1,(1Mbps)\_1TX

2462MHz

CSE NdB

02/12/2019

Port 4



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

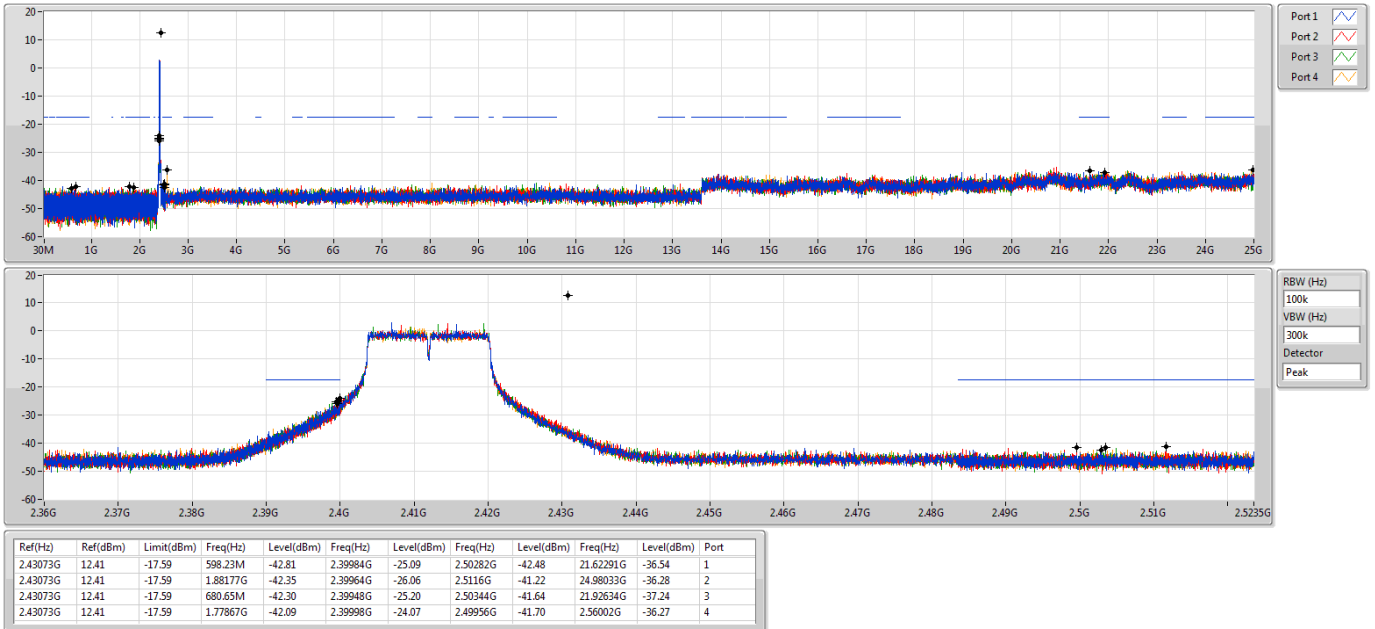
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.43799G | 14.26    | -15.74     | 723.76M  | -38.45     | 2.39002G | -41.46     | 2.487G   | -40.62     | 2.499438G | -36.36     | 4    |

## 802.11g\_Nss1,(6Mbps)\_4TX

CSE NdB

2412MHz

02/12/2019

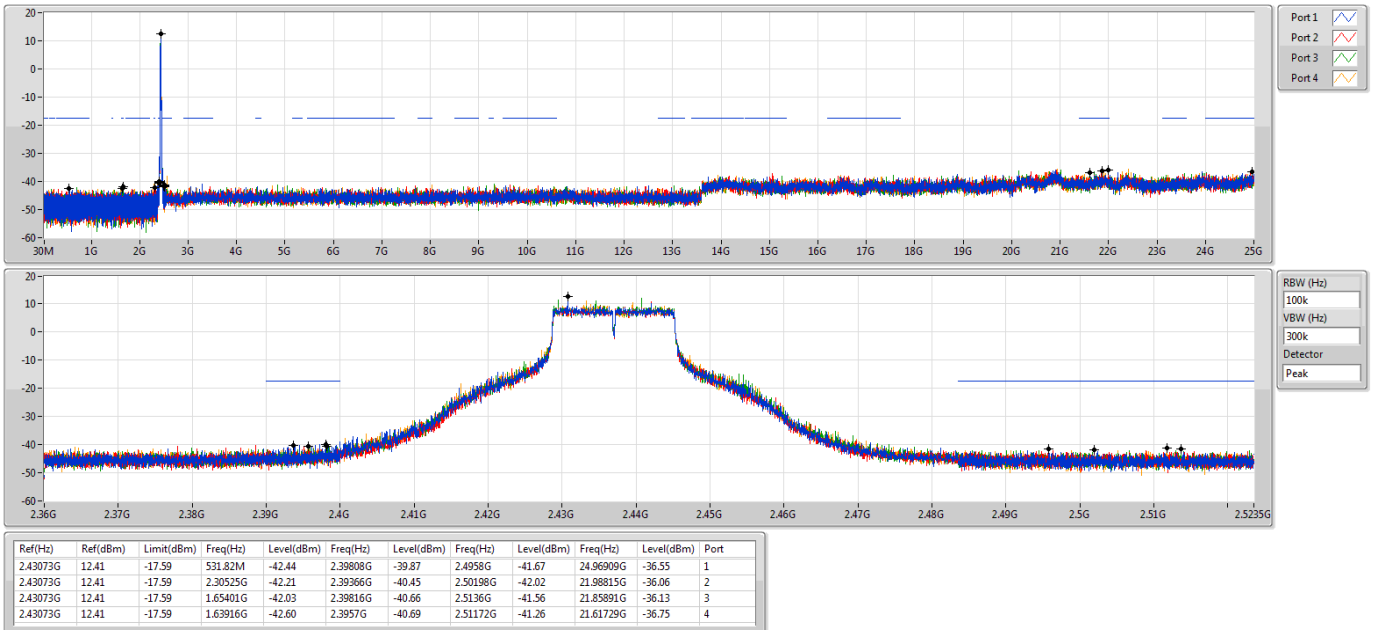


## 802.11g\_Nss1,(6Mbps)\_4TX

CSE NdB

2437MHz

02/12/2019

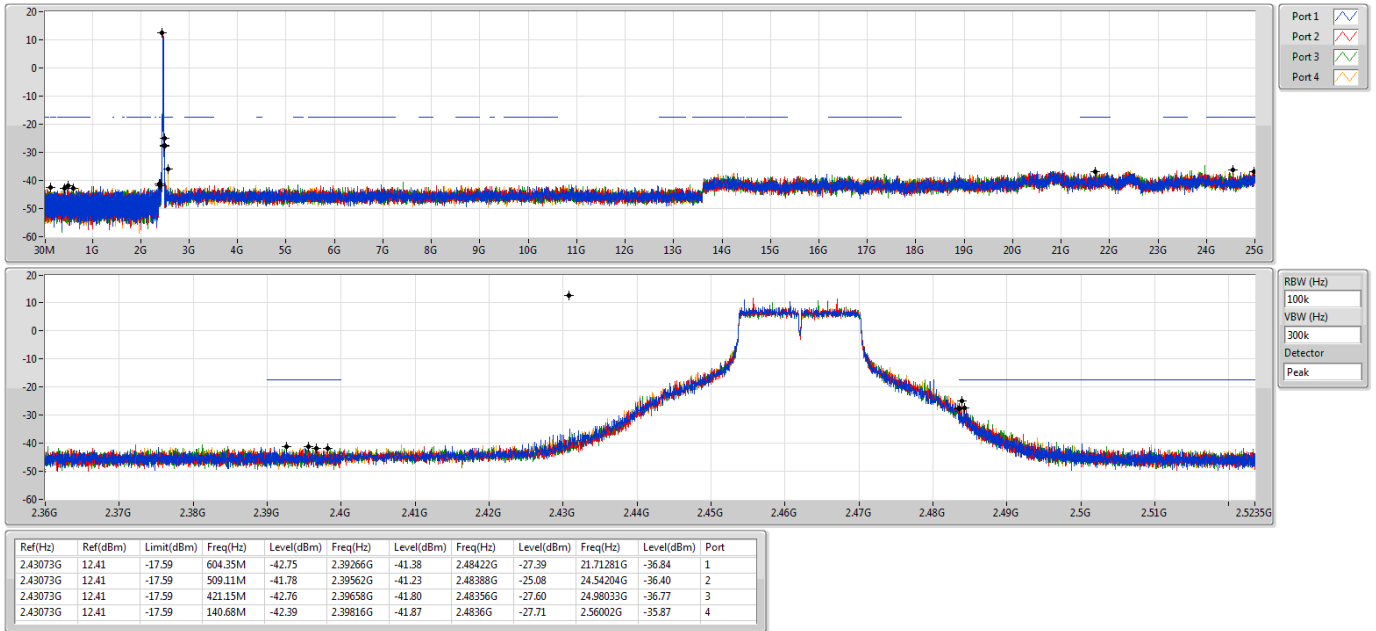


## 802.11g\_Nss1,(6Mbps)\_4TX

2462MHz

CSE NdB

02/12/2019

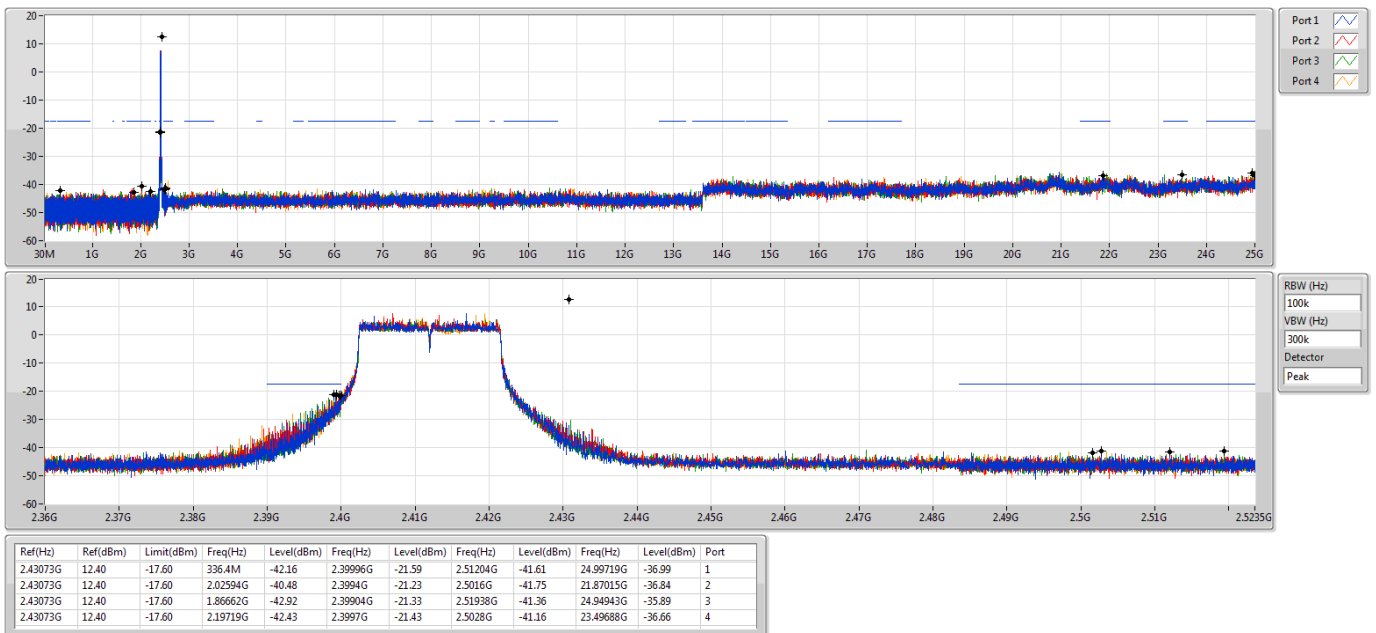


## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

2412MHz

CSE NdB

02/12/2019

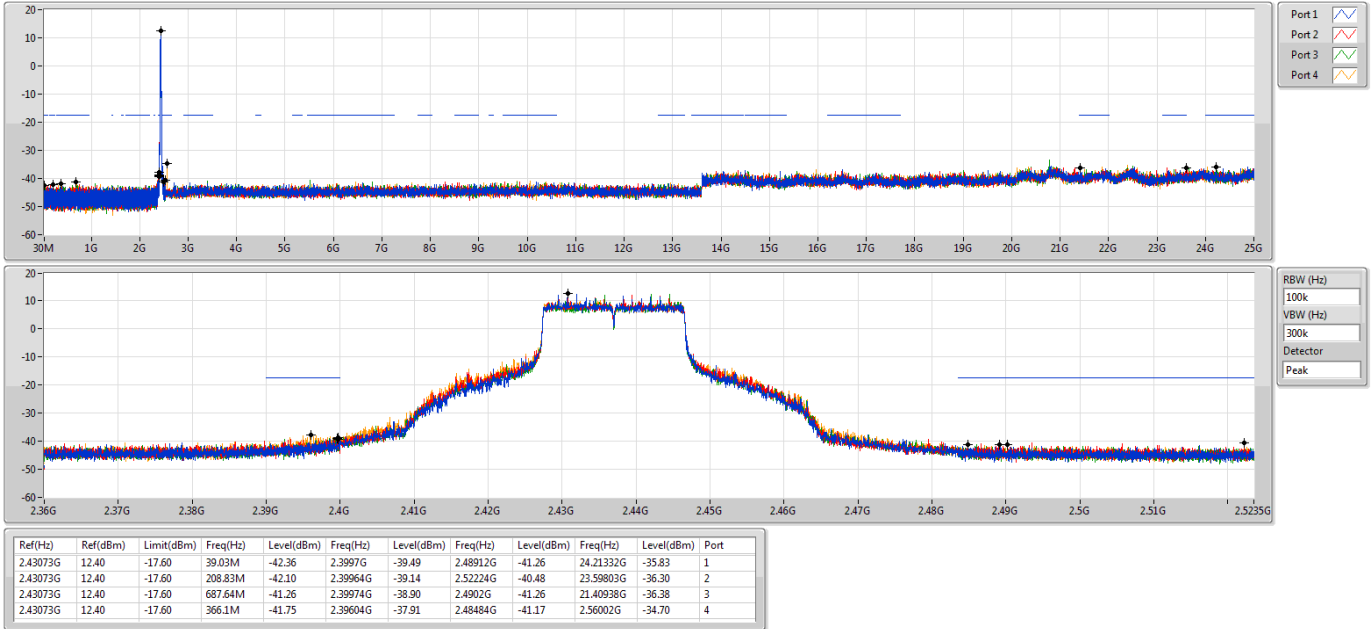


802.11ax HEW20\_Nss1,(MCS0)\_4TX

CSE NdB

2437MHz

02/12/2019

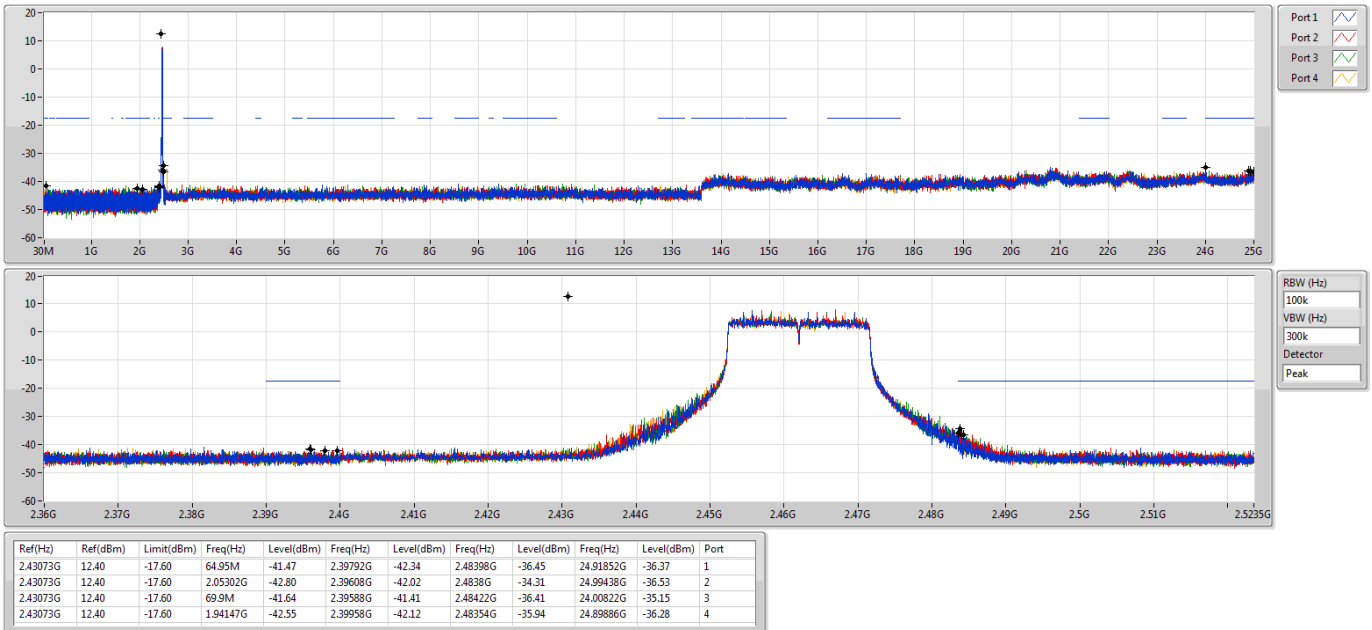


802.11ax HEW20\_Nss1,(MCS0)\_4TX

CSE NdB

2462MHz

02/12/2019

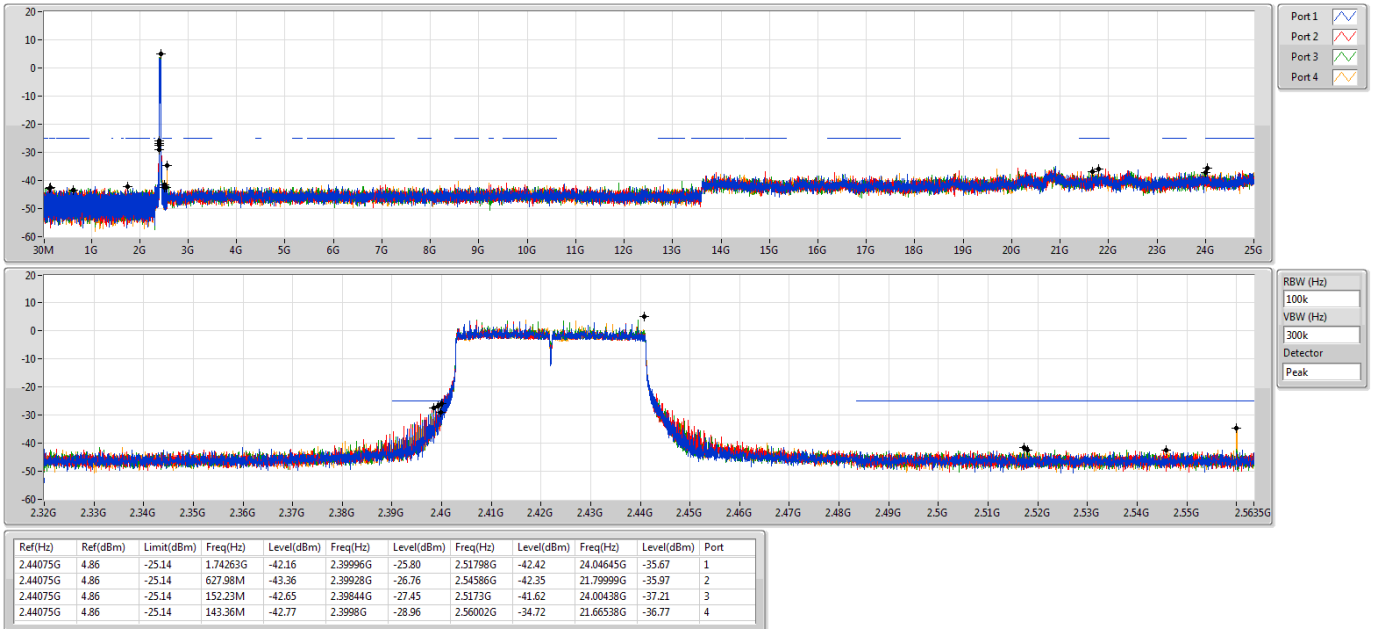


## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

CSE NdB

2422MHz

02/12/2019

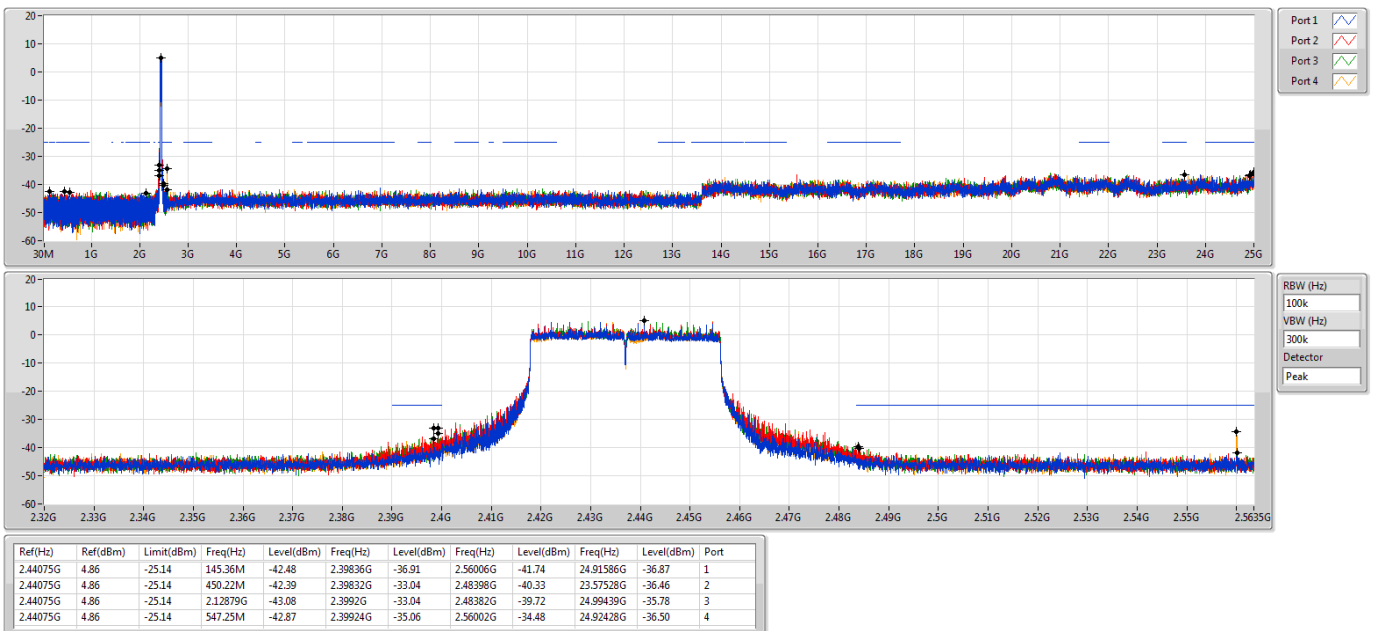


## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

CSE NdB

2437MHz

02/12/2019

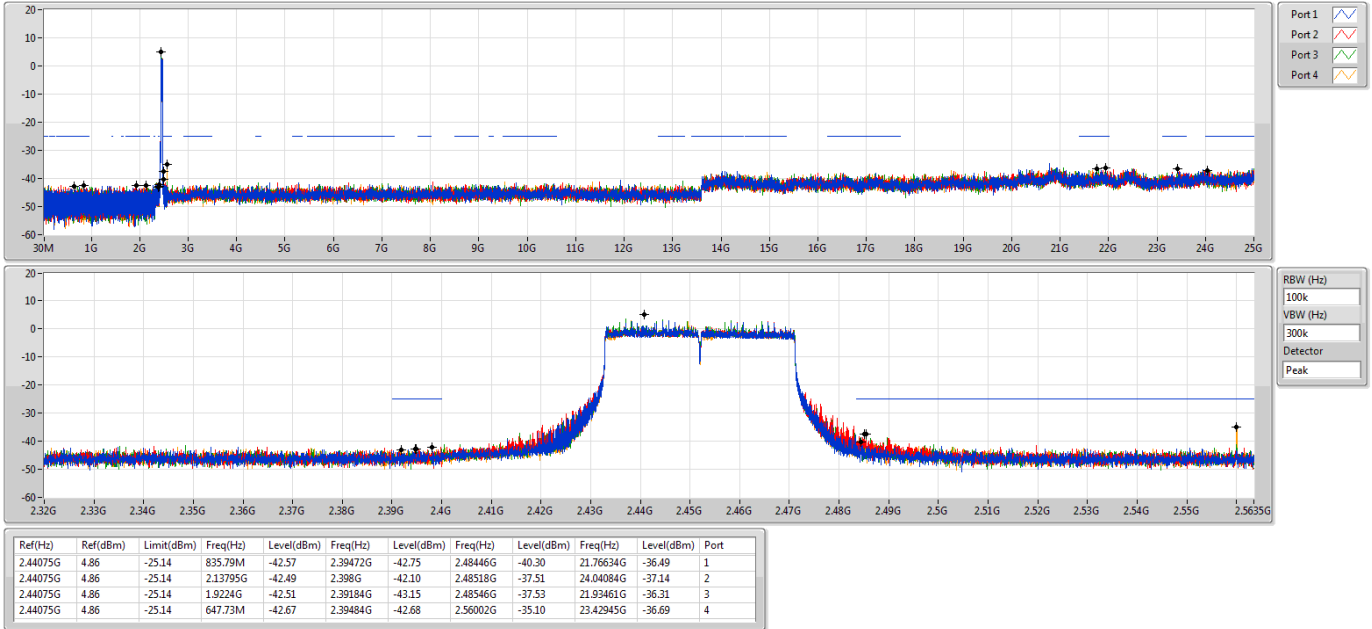


802.11ax HEW40\_Nss1,(MCS0)\_4TX

CSE NdB

2452MHz

02/12/2019





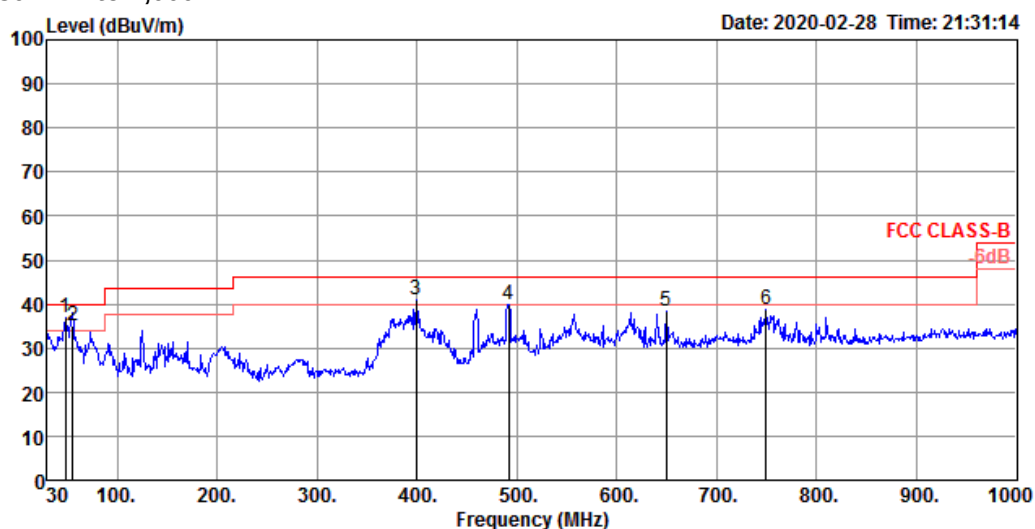


## Radiated Emission below 1GHz Result

Appendix F.1

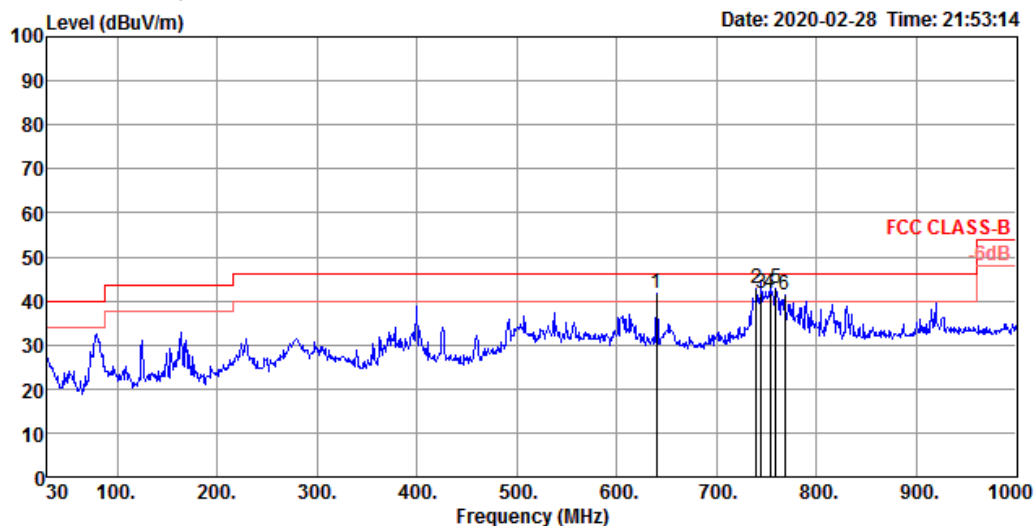
|           |        |                 |                     |
|-----------|--------|-----------------|---------------------|
| Test Mode | Mode 1 | Frequency Range | 30 MHz to 1,000 MHz |
|-----------|--------|-----------------|---------------------|

### Vertical 30 MHz to 1,000 MHz



|   | Freq   | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark   | Pol/Phase |
|---|--------|--------|--------|-------|-------|--------------|--------|-------|-------|----------|-----------|
|   | MHz    | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg      |           |
| 1 | 48.43  | 36.82  | 40.00  | -3.18 | 52.14 | 0.92         | 15.46  | 31.70 | 100   | 226 Peak | VERTICAL  |
| 2 | 55.22  | 35.08  | 40.00  | -4.92 | 52.34 | 0.92         | 13.62  | 31.80 | 100   | 24 QP    | VERTICAL  |
| 3 | 399.57 | 40.97  | 46.00  | -5.03 | 48.13 | 2.56         | 22.47  | 32.19 | 150   | 343 Peak | VERTICAL  |
| 4 | 491.72 | 39.94  | 46.00  | -6.06 | 45.79 | 2.91         | 23.69  | 32.45 | 125   | 142 Peak | VERTICAL  |
| 5 | 649.83 | 38.46  | 46.00  | -7.54 | 42.25 | 3.25         | 25.50  | 32.54 | 125   | 342 Peak | VERTICAL  |
| 6 | 749.74 | 38.73  | 46.00  | -7.27 | 41.22 | 3.64         | 26.20  | 32.33 | 100   | 130 Peak | VERTICAL  |

## Horizontal 30 MHz to 1,000 MHz



|   | Freq   | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark   | Pol/Phase  |
|---|--------|--------|--------|-------|-------|--------------|--------|-------|-------|----------|------------|
|   | MHz    | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg      |            |
| 1 | 640.13 | 41.57  | 46.00  | -4.43 | 45.41 | 3.26         | 25.40  | 32.50 | 150   | 74 Peak  | HORIZONTAL |
| 2 | 740.04 | 42.85  | 46.00  | -3.15 | 45.52 | 3.61         | 26.08  | 32.36 | 100   | 160 Peak | HORIZONTAL |
| 3 | 744.89 | 41.78  | 46.00  | -4.22 | 44.36 | 3.63         | 26.14  | 32.35 | 189   | 100 QP   | HORIZONTAL |
| 4 | 753.62 | 41.55  | 46.00  | -4.45 | 44.00 | 3.65         | 26.23  | 32.33 | 124   | 100 QP   | HORIZONTAL |
| 5 | 759.44 | 42.94  | 46.00  | -3.06 | 45.30 | 3.66         | 26.31  | 32.33 | 300   | 71 Peak  | HORIZONTAL |
| 6 | 768.17 | 41.25  | 46.00  | -4.75 | 43.51 | 3.67         | 26.39  | 32.32 | 200   | 94 Peak  | HORIZONTAL |



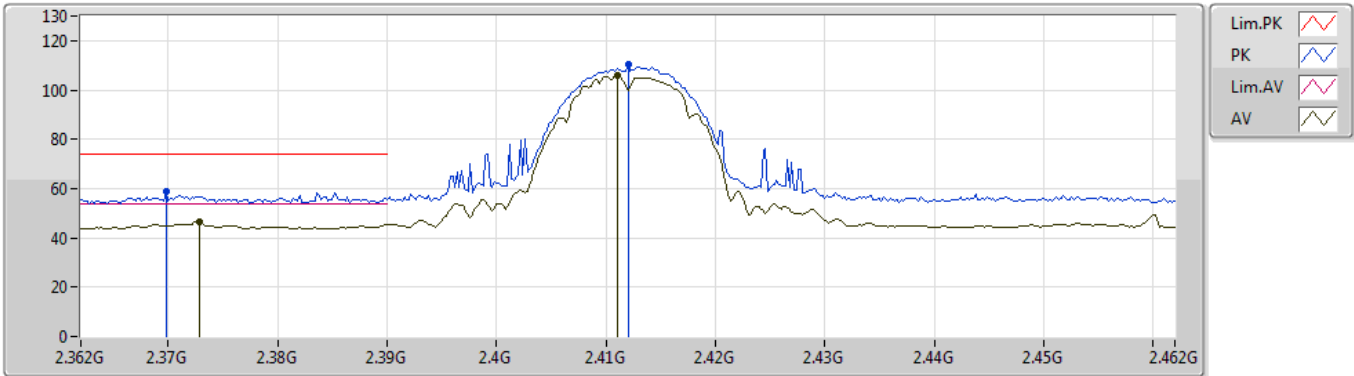
**Summary**

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 2.4-2.4835GHz            | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| 802.11b_Nss1,(1Mbps)_1TX | Pass   | AV   | 4.92398G     | 53.98             | 54.00             | -0.02          | 3.92           | 3           | Vertical  | 91             | 1.46          | -        |

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

02/03/2020

### 2412MHz\_TX



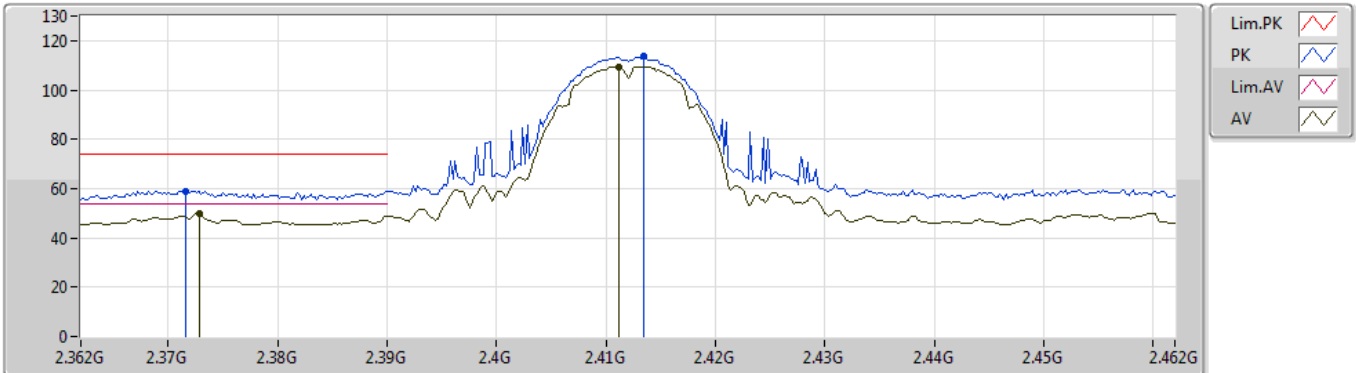
EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.3698G      | 59.06             | 74.00             | -14.94         | 30.13          | 3           | Vertical  | 68             | 1.45          | -       | 28.93         |  |  |  |
| AV   | 2.3728G      | 46.56             | 54.00             | -7.44          | 30.13          | 3           | Vertical  | 68             | 1.45          | -       | 16.43         |  |  |  |
| PK   | 2.412G       | 110.49            | Inf               | -Inf           | 30.16          | 3           | Vertical  | 68             | 1.45          | -       | 80.33         |  |  |  |
| AV   | 2.411G       | 106.15            | Inf               | -Inf           | 30.15          | 3           | Vertical  | 68             | 1.45          | -       | 76.00         |  |  |  |

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

02/03/2020

### 2412MHz\_TX



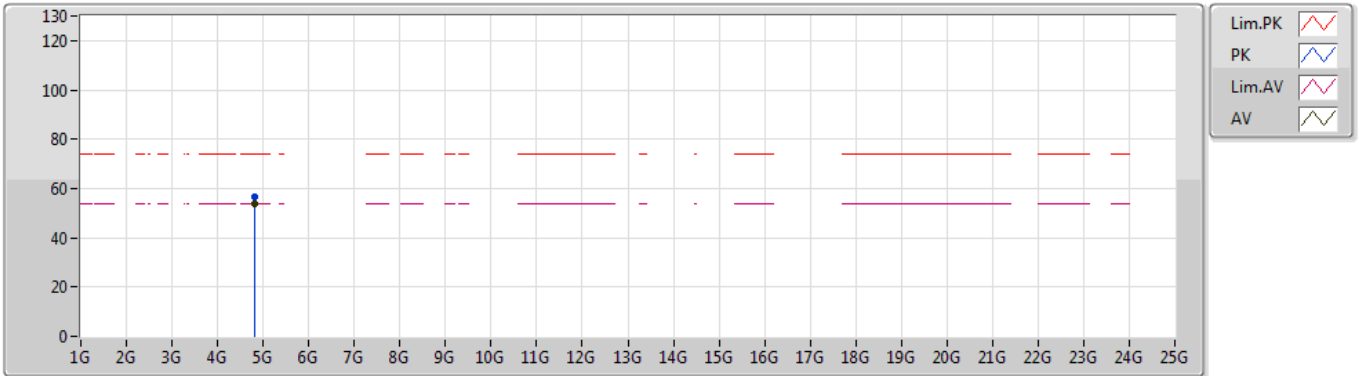
EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3716G      | 59.06             | 74.00             | -14.94         | 30.13          | 3           | Horizontal | 152            | 1.63          | -       | 28.93         |
| AV   | 2.3728G      | 49.99             | 54.00             | -4.01          | 30.13          | 3           | Horizontal | 152            | 1.63          | -       | 19.86         |
| PK   | 2.4134G      | 113.99            | Inf               | -Inf           | 30.16          | 3           | Horizontal | 152            | 1.63          | -       | 83.83         |
| AV   | 2.4112G      | 109.47            | Inf               | -Inf           | 30.15          | 3           | Horizontal | 152            | 1.63          | -       | 79.32         |

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

02/03/2020

## 2412MHz\_TX

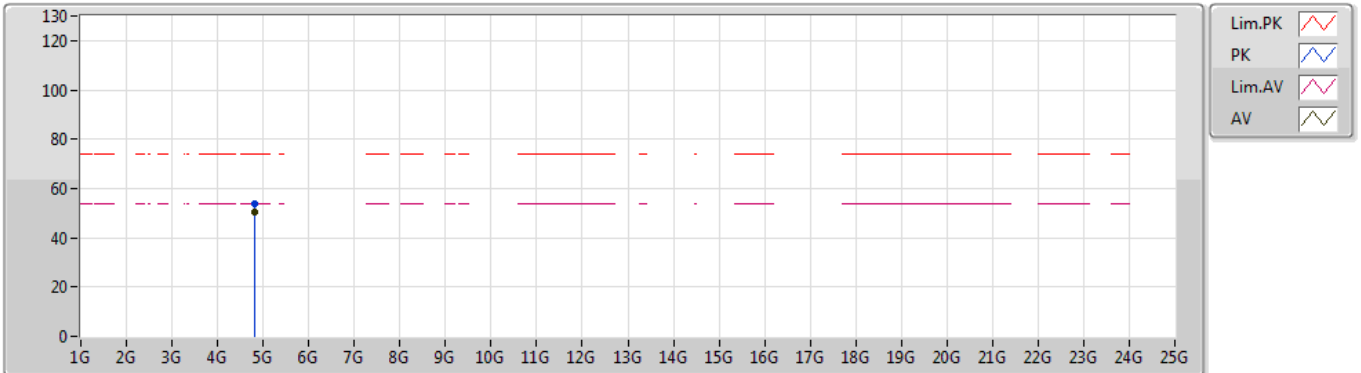

EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82391G     | 56.42             | 74.00             | -17.58         | 3.48           | 3           | Vertical  | 98             | 1.57          | -       | 52.94         |  |  |  |
| AV   | 4.82398G     | 53.78             | 54.00             | -0.22          | 3.48           | 3           | Vertical  | 98             | 1.57          | -       | 50.30         |  |  |  |

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

02/03/2020

## 2412MHz\_TX

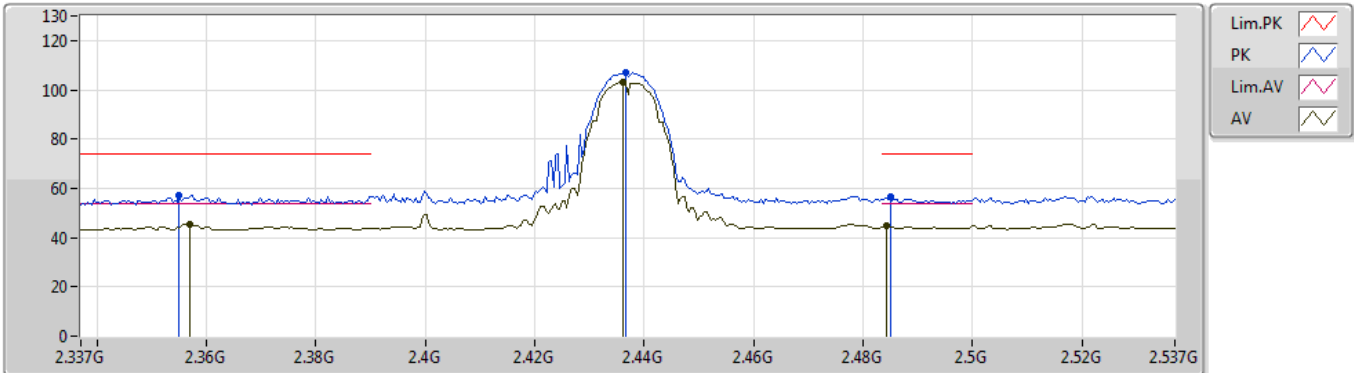

EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82394G     | 54.06             | 74.00             | -19.94         | 3.48           | 3           | Horizontal | 79             | 1.60          | -       | 50.58         |  |  |  |
| AV   | 4.82394G     | 50.52             | 54.00             | -3.48          | 3.48           | 3           | Horizontal | 79             | 1.60          | -       | 47.04         |  |  |  |

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

02/03/2020

### 2437MHz\_TX



EUT Y\_1TX\_ANT0  
04-F-W-3

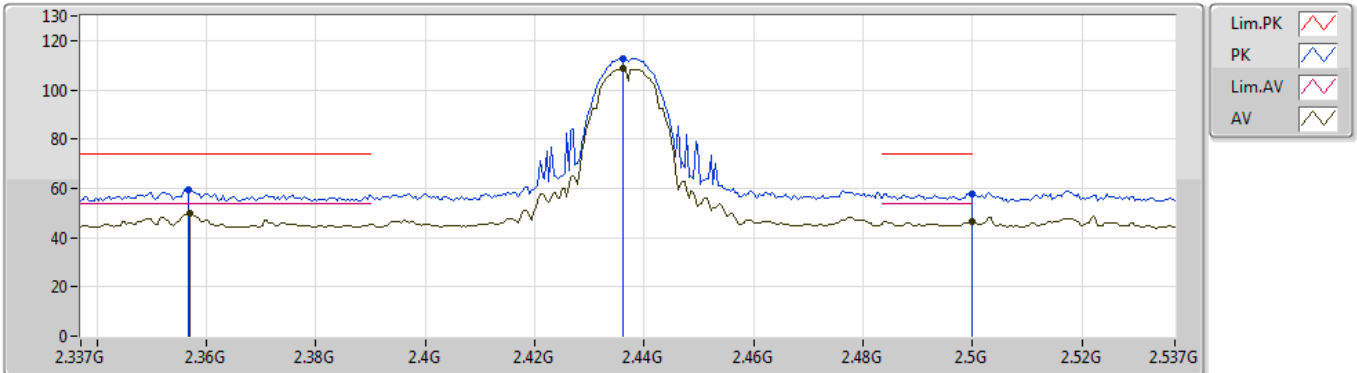
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.355G       | 57.28             | 74.00             | -16.72         | 30.15          | 3           | Vertical  | 59             | 1.49          | -       | 27.13         |
| AV   | 2.357G       | 45.29             | 54.00             | -8.71          | 30.14          | 3           | Vertical  | 59             | 1.49          | -       | 15.15         |
| PK   | 2.4366G      | 107.21            | Inf               | -Inf           | 30.27          | 3           | Vertical  | 59             | 1.49          | -       | 76.94         |
| AV   | 2.4362G      | 103.06            | Inf               | -Inf           | 30.26          | 3           | Vertical  | 59             | 1.49          | -       | 72.80         |
| PK   | 2.485G       | 56.74             | 74.00             | -17.26         | 30.48          | 3           | Vertical  | 59             | 1.49          | -       | 26.26         |
| AV   | 2.4842G      | 44.70             | 54.00             | -9.30          | 30.48          | 3           | Vertical  | 59             | 1.49          | -       | 14.22         |



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

02/03/2020

### 2437MHz\_TX



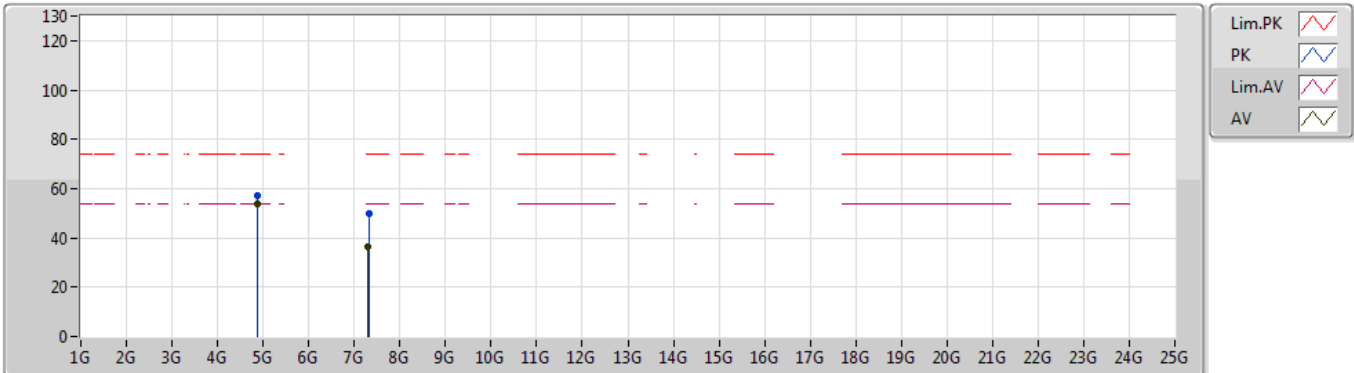
EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3566G      | 59.54             | 74.00             | -14.46         | 30.14          | 3           | Horizontal | 151            | 1.49          | -       | 29.40         |
| AV   | 2.357G       | 49.71             | 54.00             | -4.29          | 30.14          | 3           | Horizontal | 151            | 1.49          | -       | 19.57         |
| PK   | 2.4362G      | 112.88            | Inf               | -Inf           | 30.26          | 3           | Horizontal | 151            | 1.49          | -       | 82.62         |
| AV   | 2.4362G      | 108.53            | Inf               | -Inf           | 30.26          | 3           | Horizontal | 151            | 1.49          | -       | 78.27         |
| PK   | 2.4998G      | 57.85             | 74.00             | -16.15         | 30.55          | 3           | Horizontal | 151            | 1.49          | -       | 27.30         |
| AV   | 2.4998G      | 46.52             | 54.00             | -7.48          | 30.55          | 3           | Horizontal | 151            | 1.49          | -       | 15.97         |

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

02/03/2020

### 2437MHz\_TX



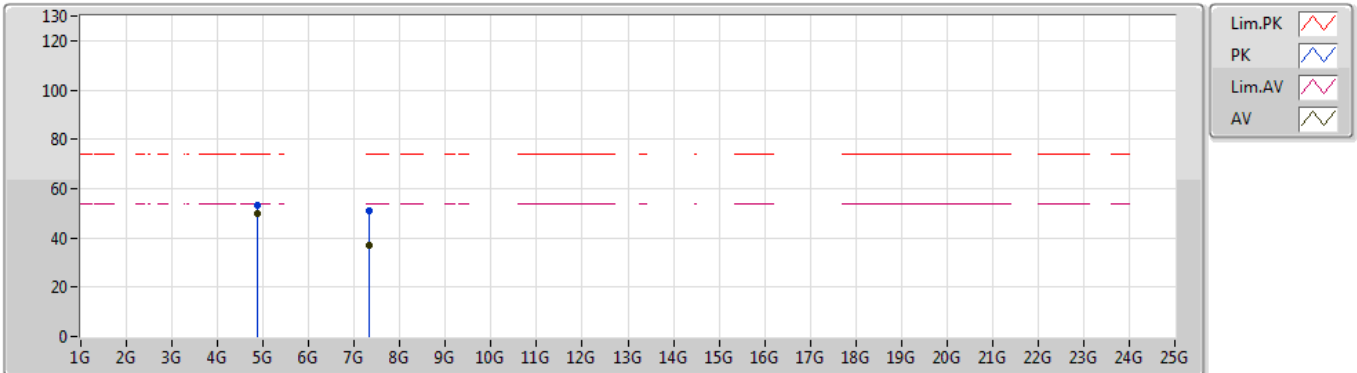
EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.87414G     | 56.95             | 74.00             | -17.05         | 3.73           | 3           | Vertical  | 87             | 1.53          | -       | 53.22         |  |  |  |
| AV   | 4.87398G     | 53.78             | 54.00             | -0.22          | 3.73           | 3           | Vertical  | 87             | 1.53          | -       | 50.05         |  |  |  |
| PK   | 7.31752G     | 49.93             | 74.00             | -24.07         | 9.58           | 3           | Vertical  | 149            | 1.50          | -       | 40.35         |  |  |  |
| AV   | 7.30136G     | 36.16             | 54.00             | -17.84         | 9.58           | 3           | Vertical  | 149            | 1.50          | -       | 26.58         |  |  |  |

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

02/03/2020

### 2437MHz\_TX



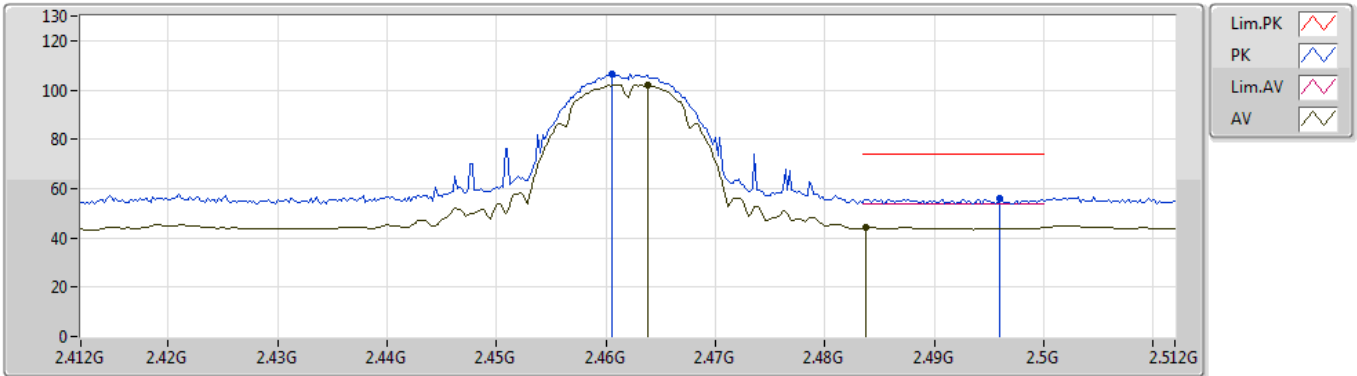
EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.87394G     | 53.26             | 74.00             | -20.74         | 3.73           | 3           | Horizontal | 78             | 1.46          | -       | 49.53         |  |  |  |
| AV   | 4.87398G     | 49.80             | 54.00             | -4.20          | 3.73           | 3           | Horizontal | 78             | 1.46          | -       | 46.07         |  |  |  |
| PK   | 7.31344G     | 50.78             | 74.00             | -23.22         | 9.57           | 3           | Horizontal | 358            | 1.84          | -       | 41.21         |  |  |  |
| AV   | 7.31176G     | 36.77             | 54.00             | -17.23         | 9.59           | 3           | Horizontal | 358            | 1.84          | -       | 27.18         |  |  |  |

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

02/03/2020

### 2462MHz\_TX



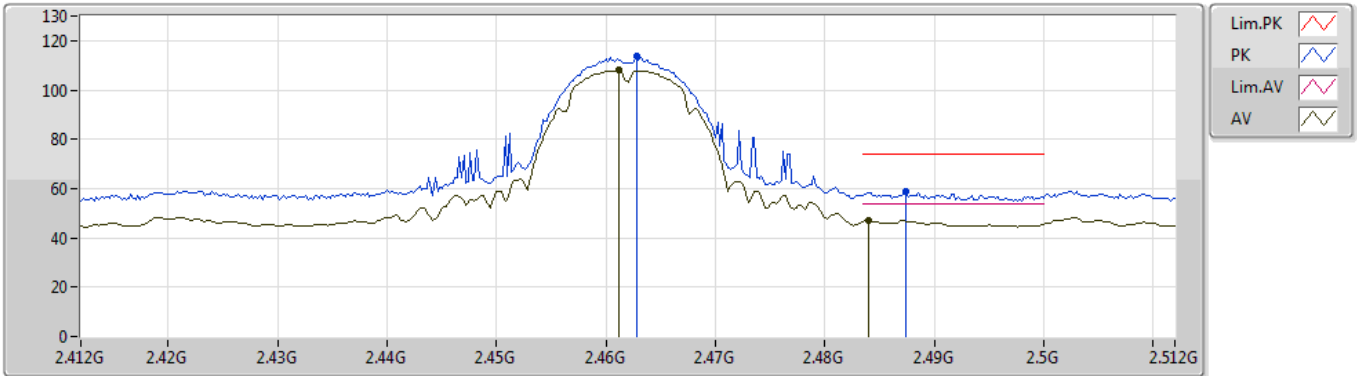
EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.4606G      | 106.71            | Inf               | -Inf           | 30.37          | 3           | Vertical  | 77             | 1.24          | -       | 76.34         |  |  |  |
| AV   | 2.4638G      | 102.08            | Inf               | -Inf           | 30.39          | 3           | Vertical  | 77             | 1.24          | -       | 71.69         |  |  |  |
| PK   | 2.496G       | 55.76             | 74.00             | -18.24         | 30.53          | 3           | Vertical  | 77             | 1.24          | -       | 25.23         |  |  |  |
| AV   | 2.4838G      | 44.38             | 54.00             | -9.62          | 30.48          | 3           | Vertical  | 77             | 1.24          | -       | 13.90         |  |  |  |

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

02/03/2020

### 2462MHz\_TX



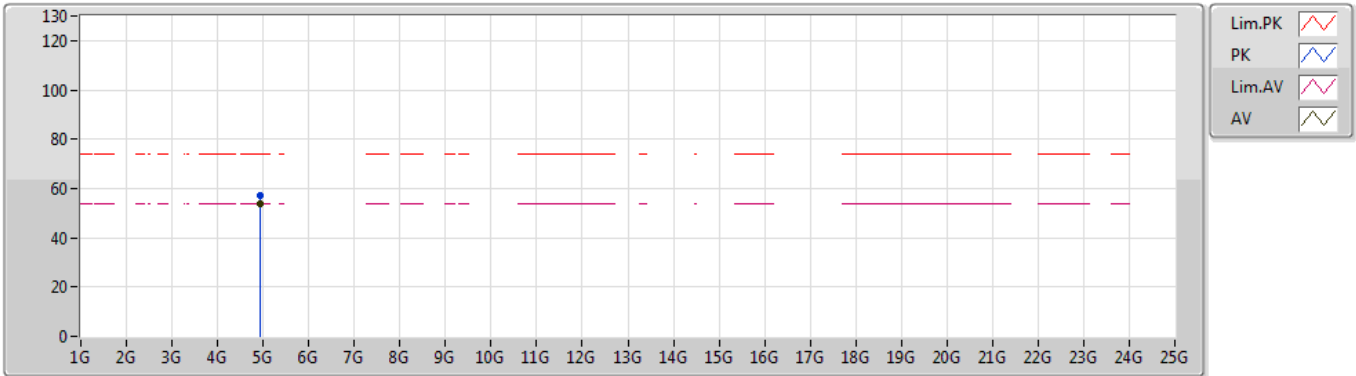
EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.4628G      | 113.99            | Inf               | -Inf           | 30.38          | 3           | Horizontal | 151            | 1.33          | -       | 83.61         |
| AV   | 2.4612G      | 108.01            | Inf               | -Inf           | 30.37          | 3           | Horizontal | 151            | 1.33          | -       | 77.64         |
| PK   | 2.4874G      | 58.98             | 74.00             | -15.02         | 30.49          | 3           | Horizontal | 151            | 1.33          | -       | 28.49         |
| AV   | 2.484G       | 47.18             | 54.00             | -6.82          | 30.48          | 3           | Horizontal | 151            | 1.33          | -       | 16.70         |

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

02/03/2020

## 2462MHz\_TX

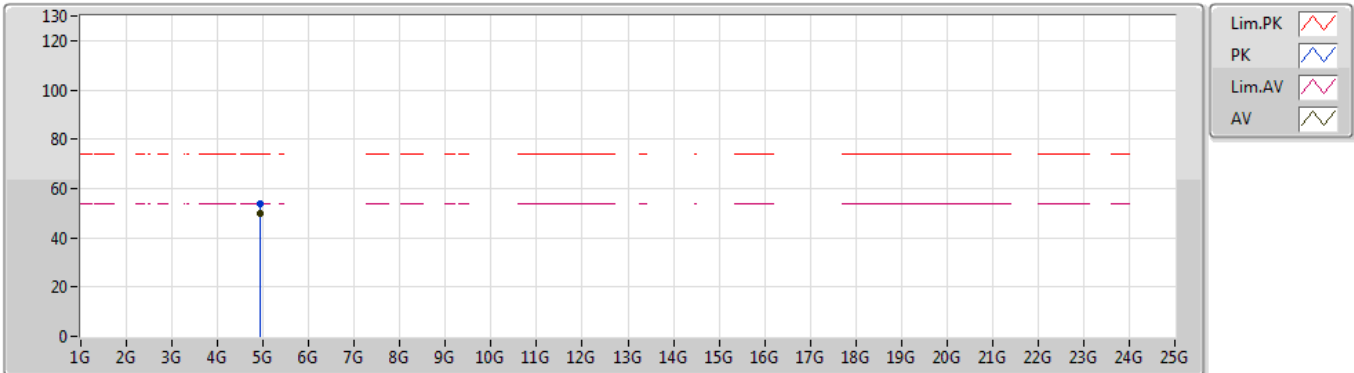

EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.92387G     | 56.98             | 74.00             | -17.02         | 3.92           | 3           | Vertical  | 91             | 1.46          | -       | 53.06         |  |  |  |
| AV   | 4.92398G     | 53.98             | 54.00             | -0.02          | 3.92           | 3           | Vertical  | 91             | 1.46          | -       | 50.06         |  |  |  |

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

02/03/2020

### 2462MHz\_TX



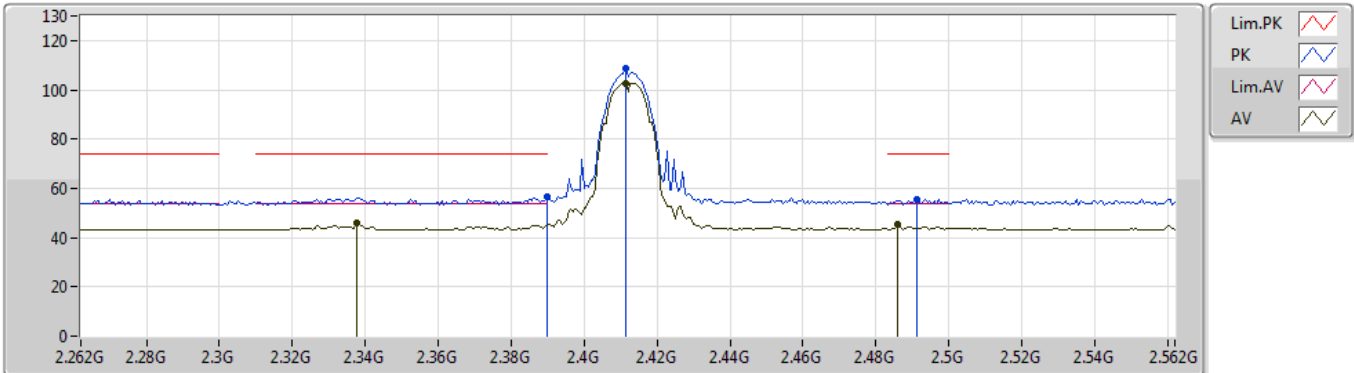
EUT Y\_1TX\_ANT0  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.92393G     | 53.63             | 74.00             | -20.37         | 3.92           | 3           | Horizontal | 139            | 1.73          | -       | 49.71         |  |  |  |
| AV   | 4.92397G     | 49.82             | 54.00             | -4.18          | 3.92           | 3           | Horizontal | 139            | 1.73          | -       | 45.90         |  |  |  |

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

02/03/2020

### 2412MHz\_TX



EUT Y\_1TX\_ANT1  
04-F-W-3

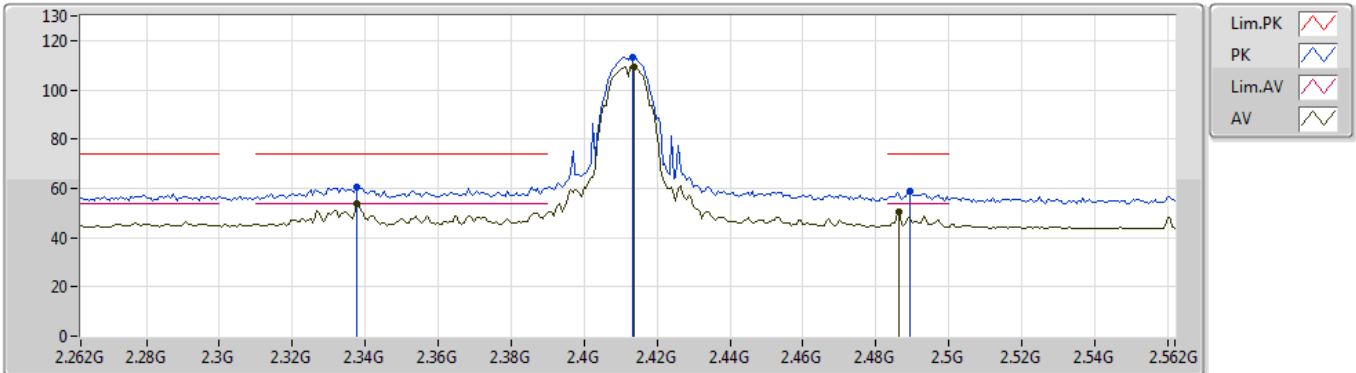
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3898G      | 56.35             | 74.00             | -17.65         | 30.11          | 3           | Vertical  | 328            | 2.99          | -       | 26.24         |
| AV   | 2.3376G      | 46.17             | 54.00             | -7.83          | 30.16          | 3           | Vertical  | 328            | 2.99          | -       | 16.01         |
| PK   | 2.4114G      | 108.65            | Inf               | -Inf           | 30.16          | 3           | Vertical  | 328            | 2.99          | -       | 78.49         |
| AV   | 2.4114G      | 102.79            | Inf               | -Inf           | 30.16          | 3           | Vertical  | 328            | 2.99          | -       | 72.63         |
| PK   | 2.4912G      | 55.70             | 74.00             | -18.30         | 30.51          | 3           | Vertical  | 328            | 2.99          | -       | 25.19         |
| AV   | 2.4858G      | 45.17             | 54.00             | -8.83          | 30.48          | 3           | Vertical  | 328            | 2.99          | -       | 14.69         |



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

02/03/2020

### 2412MHz\_TX



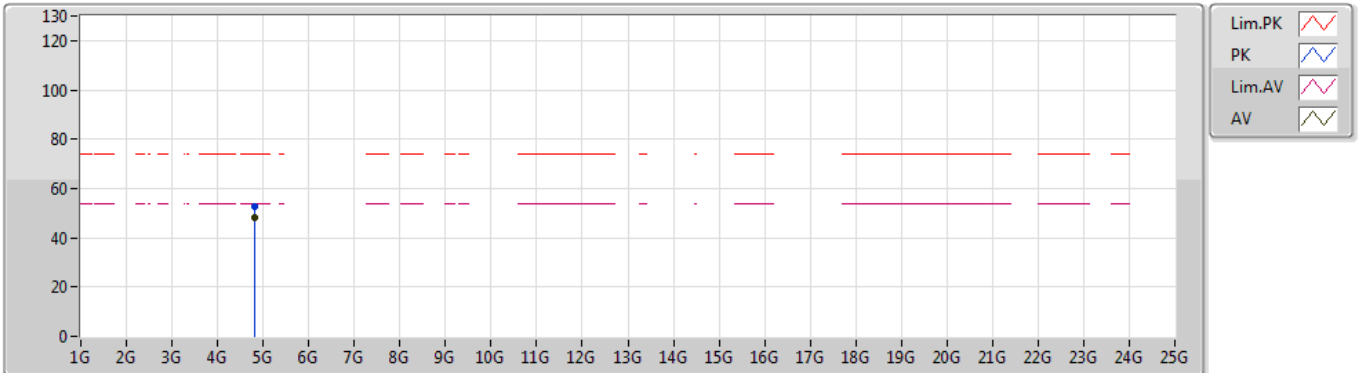
EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3376G      | 60.57             | 74.00             | -13.43         | 30.16          | 3           | Horizontal | 280            | 1.82          | -       | 30.41         |
| AV   | 2.3376G      | 53.91             | 54.00             | -0.09          | 30.16          | 3           | Horizontal | 280            | 1.82          | -       | 23.75         |
| PK   | 2.4132G      | 113.38            | Inf               | -Inf           | 30.16          | 3           | Horizontal | 280            | 1.82          | -       | 83.22         |
| AV   | 2.4138G      | 109.21            | Inf               | -Inf           | 30.17          | 3           | Horizontal | 280            | 1.82          | -       | 79.04         |
| PK   | 2.4894G      | 58.59             | 74.00             | -15.41         | 30.50          | 3           | Horizontal | 280            | 1.82          | -       | 28.09         |
| AV   | 2.4864G      | 50.16             | 54.00             | -3.84          | 30.49          | 3           | Horizontal | 280            | 1.82          | -       | 19.67         |

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

02/03/2020

## 2412MHz\_TX

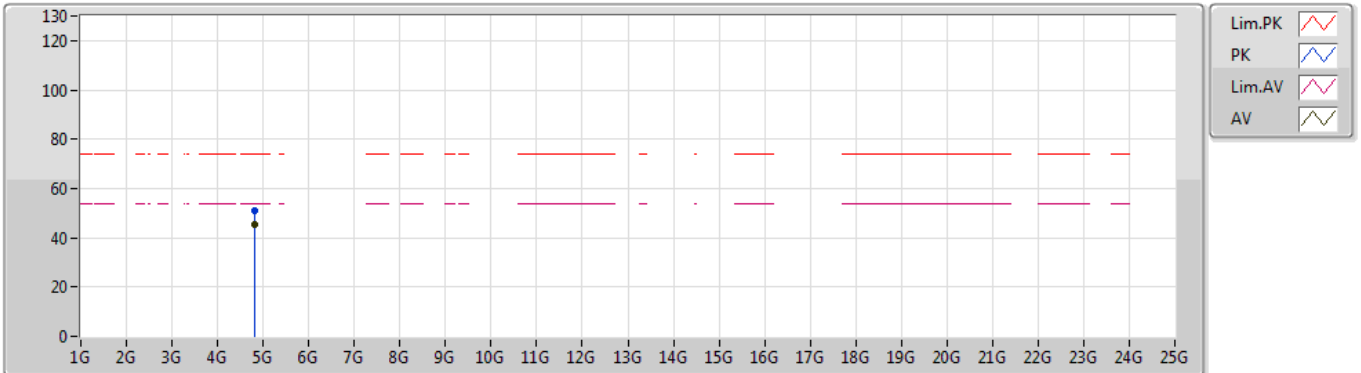

EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.824G       | 52.82             | 74.00             | -21.18         | 3.48           | 3           | Vertical  | 99             | 1.49          | -       | 49.34         |  |  |  |
| AV   | 4.82394G     | 48.34             | 54.00             | -5.66          | 3.48           | 3           | Vertical  | 99             | 1.49          | -       | 44.86         |  |  |  |

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

02/03/2020

### 2412MHz\_TX



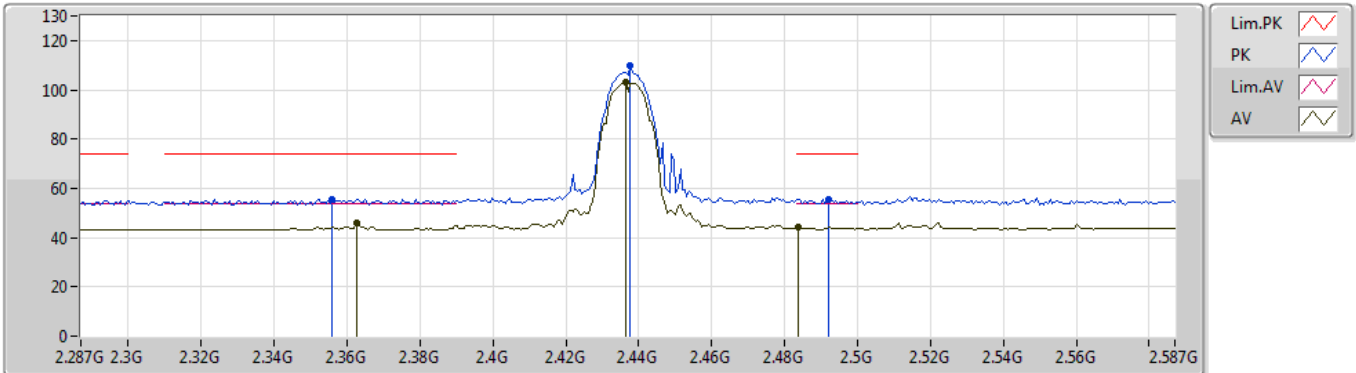
EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82396G     | 50.95             | 74.00             | -23.05         | 3.48           | 3           | Horizontal | 80             | 1.67          | -       | 47.47         |  |  |  |
| AV   | 4.82396G     | 45.34             | 54.00             | -8.66          | 3.48           | 3           | Horizontal | 80             | 1.67          | -       | 41.86         |  |  |  |

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

02/03/2020

### 2437MHz\_TX



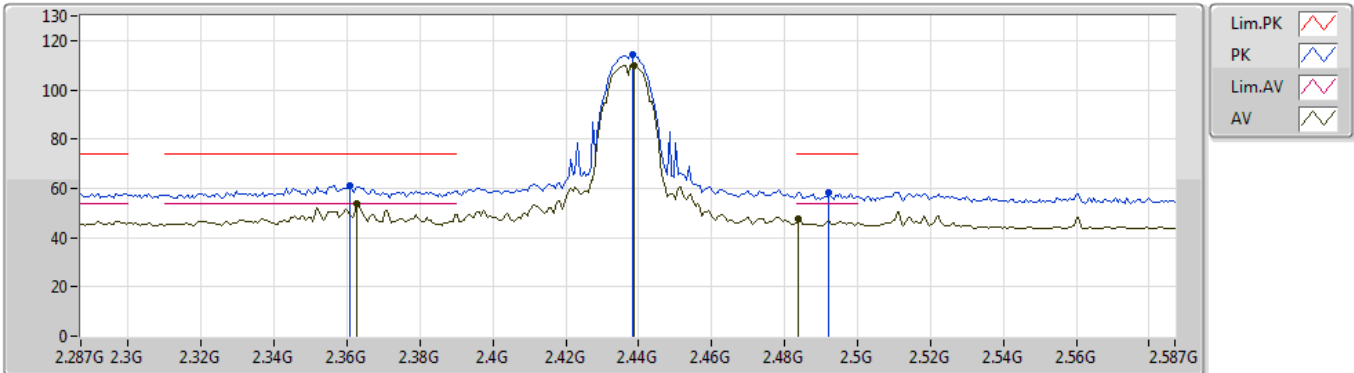
EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.356G       | 55.71             | 74.00             | -18.29         | 30.14          | 3           | Vertical  | 324            | 2.92          | -       | 25.57         |
| AV   | 2.3626G      | 45.67             | 54.00             | -8.33          | 30.14          | 3           | Vertical  | 324            | 2.92          | -       | 15.53         |
| PK   | 2.4376G      | 109.57            | Inf               | -Inf           | 30.27          | 3           | Vertical  | 324            | 2.92          | -       | 79.30         |
| AV   | 2.4364G      | 102.85            | Inf               | -Inf           | 30.27          | 3           | Vertical  | 324            | 2.92          | -       | 72.58         |
| PK   | 2.4922G      | 55.52             | 74.00             | -18.48         | 30.52          | 3           | Vertical  | 324            | 2.92          | -       | 25.00         |
| AV   | 2.4838G      | 44.47             | 54.00             | -9.53          | 30.48          | 3           | Vertical  | 324            | 2.92          | -       | 13.99         |

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

02/03/2020

### 2437MHz\_TX



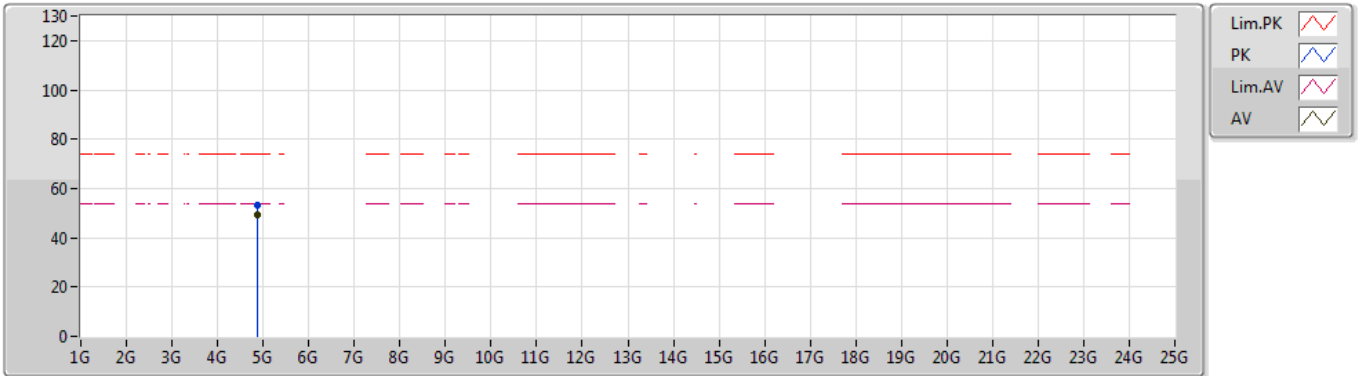
EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3608G      | 61.10             | 74.00             | -12.90         | 30.14          | 3           | Horizontal | 282            | 1.71          | -       | 30.96         |
| AV   | 2.3626G      | 53.94             | 54.00             | -0.06          | 30.14          | 3           | Horizontal | 282            | 1.71          | -       | 23.80         |
| PK   | 2.4382G      | 114.16            | Inf               | -Inf           | 30.27          | 3           | Horizontal | 282            | 1.71          | -       | 83.89         |
| AV   | 2.4388G      | 110.07            | Inf               | -Inf           | 30.28          | 3           | Horizontal | 282            | 1.71          | -       | 79.79         |
| PK   | 2.4922G      | 58.46             | 74.00             | -15.54         | 30.52          | 3           | Horizontal | 282            | 1.71          | -       | 27.94         |
| AV   | 2.4838G      | 47.77             | 54.00             | -6.23          | 30.48          | 3           | Horizontal | 282            | 1.71          | -       | 17.29         |

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

02/03/2020

### 2437MHz\_TX



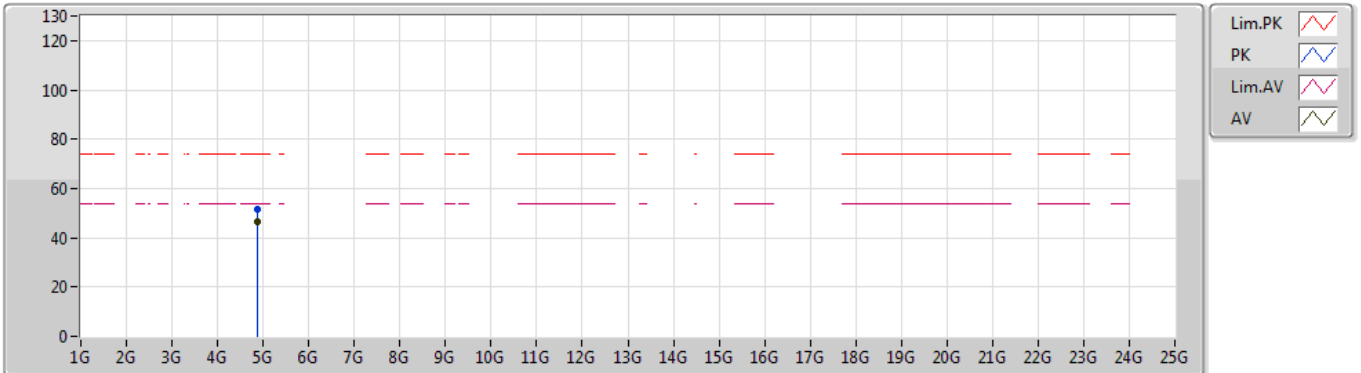
EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.8739G      | 53.13             | 74.00             | -20.87         | 3.73           | 3           | Vertical  | 97             | 1.50          | -       | 49.40         |  |  |  |
| AV   | 4.874G       | 49.50             | 54.00             | -4.50          | 3.73           | 3           | Vertical  | 97             | 1.50          | -       | 45.77         |  |  |  |

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

02/03/2020

## 2437MHz\_TX

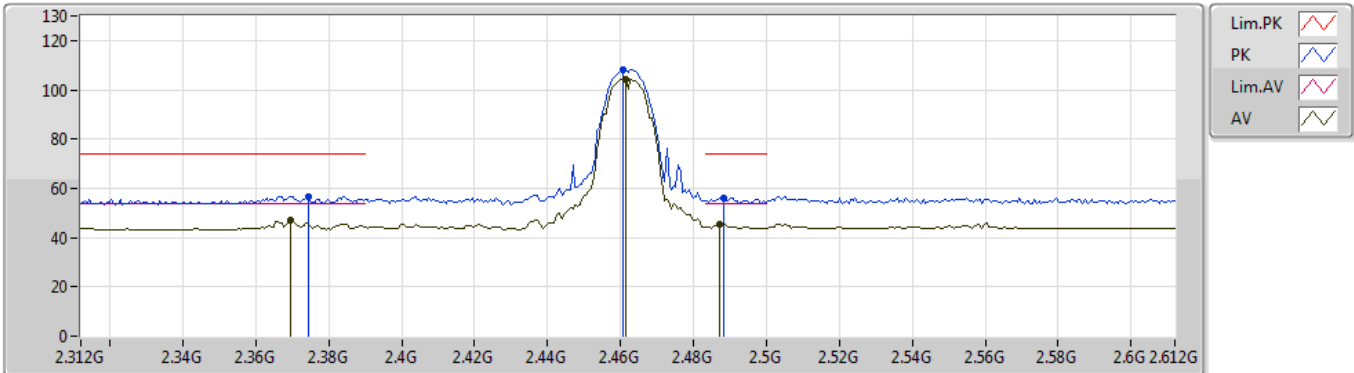

EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.87408G     | 51.37             | 74.00             | -22.63         | 3.73           | 3           | Horizontal | 74             | 1.70          | -       | 47.64         |  |  |  |
| AV   | 4.87398G     | 46.76             | 54.00             | -7.24          | 3.73           | 3           | Horizontal | 74             | 1.70          | -       | 43.03         |  |  |  |

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

02/03/2020

### 2462MHz\_TX



EUT Y\_1TX\_ANT1  
04-F-W-3

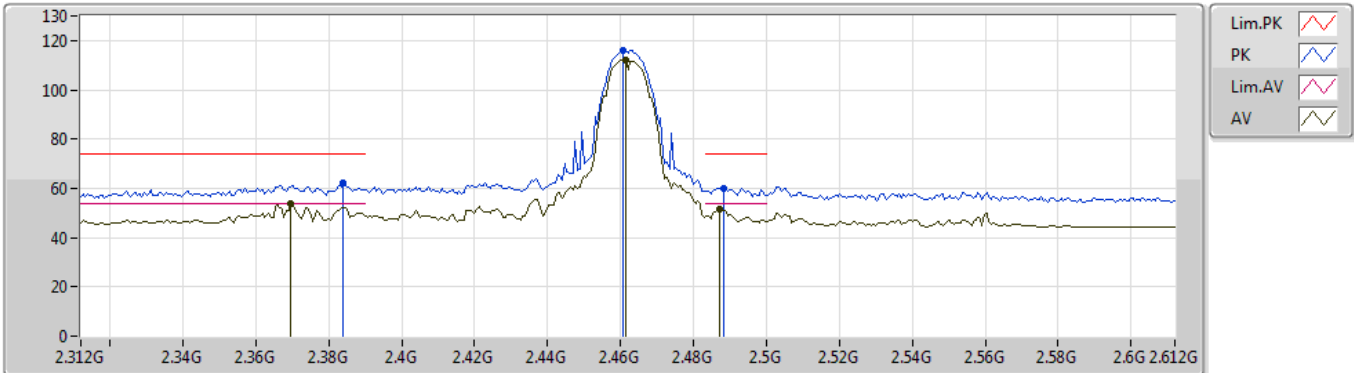
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.3744G      | 56.80             | 74.00             | -17.20         | 30.13          | 3           | Vertical  | 339            | 2.97          | -       | 26.67         |  |  |  |
| AV   | 2.3696G      | 47.19             | 54.00             | -6.81          | 30.13          | 3           | Vertical  | 339            | 2.97          | -       | 17.06         |  |  |  |
| PK   | 2.4608G      | 108.29            | Inf               | -Inf           | 30.37          | 3           | Vertical  | 339            | 2.97          | -       | 77.92         |  |  |  |
| AV   | 2.4614G      | 104.45            | Inf               | -Inf           | 30.38          | 3           | Vertical  | 339            | 2.97          | -       | 74.07         |  |  |  |
| PK   | 2.4884G      | 56.10             | 74.00             | -17.90         | 30.49          | 3           | Vertical  | 339            | 2.97          | -       | 25.61         |  |  |  |
| AV   | 2.4872G      | 45.47             | 54.00             | -8.53          | 30.49          | 3           | Vertical  | 339            | 2.97          | -       | 14.98         |  |  |  |



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

02/03/2020

### 2462MHz\_TX



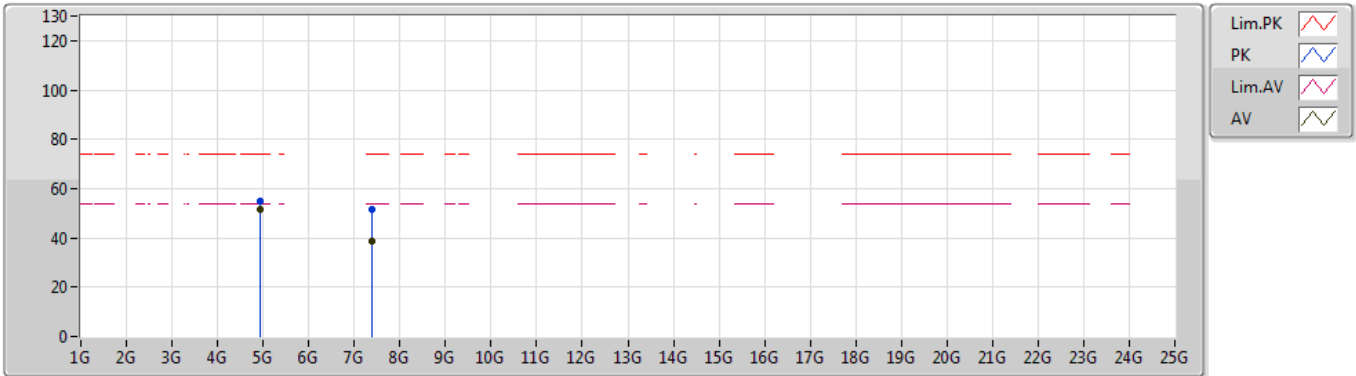
EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.384G       | 62.06             | 74.00             | -11.94         | 30.12          | 3           | Horizontal | 277            | 1.76          | -       | 31.94         |
| AV   | 2.3696G      | 53.68             | 54.00             | -0.32          | 30.13          | 3           | Horizontal | 277            | 1.76          | -       | 23.55         |
| PK   | 2.4608G      | 115.96            | Inf               | -Inf           | 30.37          | 3           | Horizontal | 277            | 1.76          | -       | 85.59         |
| AV   | 2.4614G      | 112.07            | Inf               | -Inf           | 30.38          | 3           | Horizontal | 277            | 1.76          | -       | 81.69         |
| PK   | 2.4884G      | 60.11             | 74.00             | -13.89         | 30.49          | 3           | Horizontal | 277            | 1.76          | -       | 29.62         |
| AV   | 2.4872G      | 51.79             | 54.00             | -2.21          | 30.49          | 3           | Horizontal | 277            | 1.76          | -       | 21.30         |

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

02/03/2020

### 2462MHz\_TX



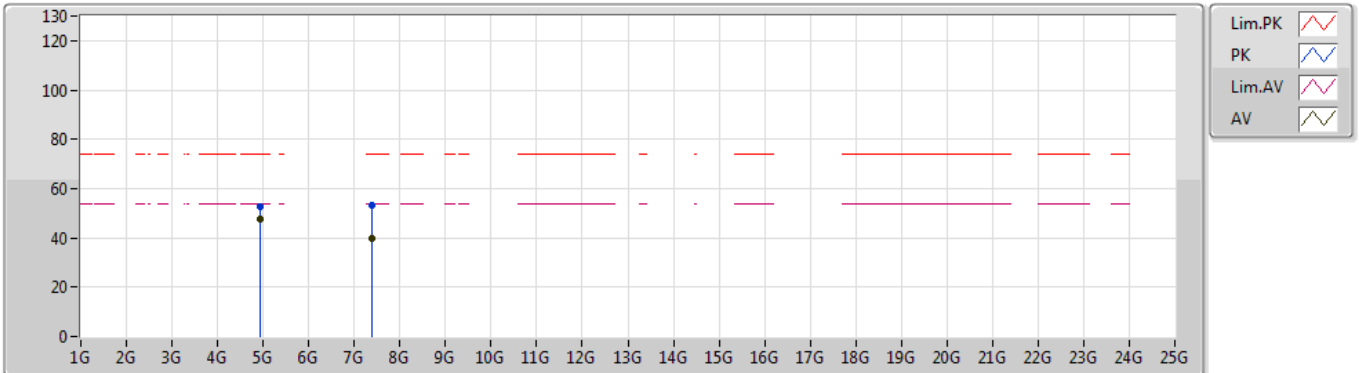
EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.92394G     | 55.09             | 74.00             | -18.91         | 3.92           | 3           | Vertical  | 102            | 1.70          | -       | 51.17         |  |  |  |
| AV   | 4.92396G     | 51.32             | 54.00             | -2.68          | 3.92           | 3           | Vertical  | 102            | 1.70          | -       | 47.40         |  |  |  |
| PK   | 7.38476G     | 51.81             | 74.00             | -22.19         | 9.60           | 3           | Vertical  | 131            | 2.30          | -       | 42.21         |  |  |  |
| AV   | 7.38514G     | 38.45             | 54.00             | -15.55         | 9.61           | 3           | Vertical  | 131            | 2.30          | -       | 28.84         |  |  |  |

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

02/03/2020

## 2462MHz\_TX

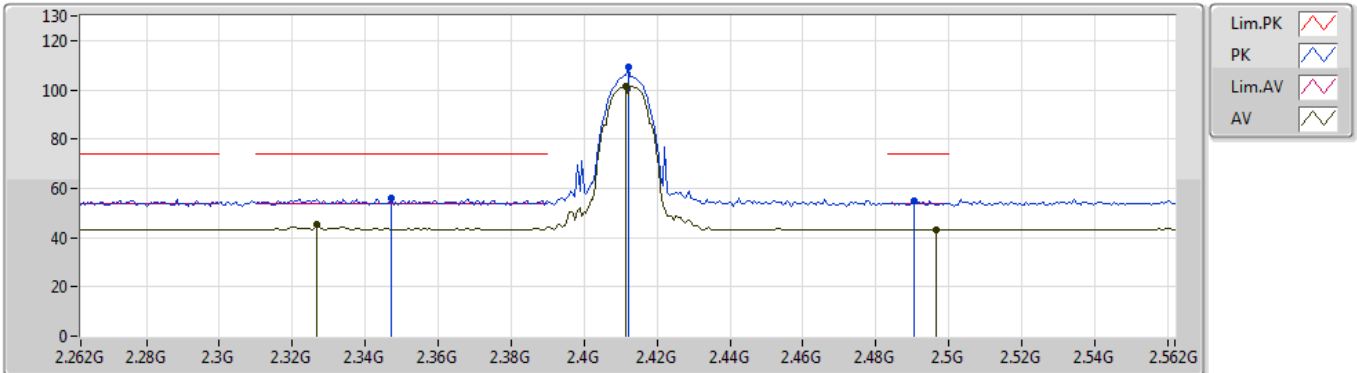

EUT Y\_1TX\_ANT1  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.92404G     | 52.51             | 74.00             | -21.49         | 3.92           | 3           | Horizontal | 74             | 1.78          | -       | 48.59         |  |  |  |
| AV   | 4.92398G     | 47.54             | 54.00             | -6.46          | 3.92           | 3           | Horizontal | 74             | 1.78          | -       | 43.62         |  |  |  |
| PK   | 7.38539G     | 53.11             | 74.00             | -20.89         | 9.61           | 3           | Horizontal | 169            | 1.48          | -       | 43.50         |  |  |  |
| AV   | 7.38528G     | 39.94             | 54.00             | -14.06         | 9.61           | 3           | Horizontal | 169            | 1.48          | -       | 30.33         |  |  |  |

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

02/03/2020

### 2412MHz\_TX



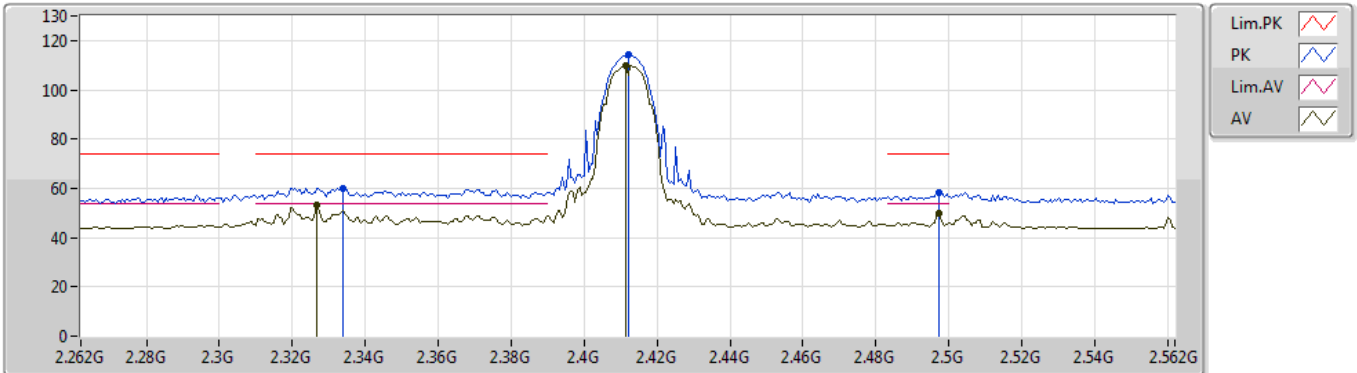
EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3472G      | 55.80             | 74.00             | -18.20         | 30.15          | 3           | Vertical  | 346            | 1.12          | -       | 25.65         |
| AV   | 2.3268G      | 45.36             | 54.00             | -8.64          | 30.17          | 3           | Vertical  | 346            | 1.12          | -       | 15.19         |
| PK   | 2.412G       | 109.28            | Inf               | -Inf           | 30.16          | 3           | Vertical  | 346            | 1.12          | -       | 79.12         |
| AV   | 2.4114G      | 101.32            | Inf               | -Inf           | 30.16          | 3           | Vertical  | 346            | 1.12          | -       | 71.16         |
| PK   | 2.4906G      | 54.82             | 74.00             | -19.18         | 30.51          | 3           | Vertical  | 346            | 1.12          | -       | 24.31         |
| AV   | 2.4966G      | 43.09             | 54.00             | -10.91         | 30.54          | 3           | Vertical  | 346            | 1.12          | -       | 12.55         |

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

02/03/2020

### 2412MHz\_TX



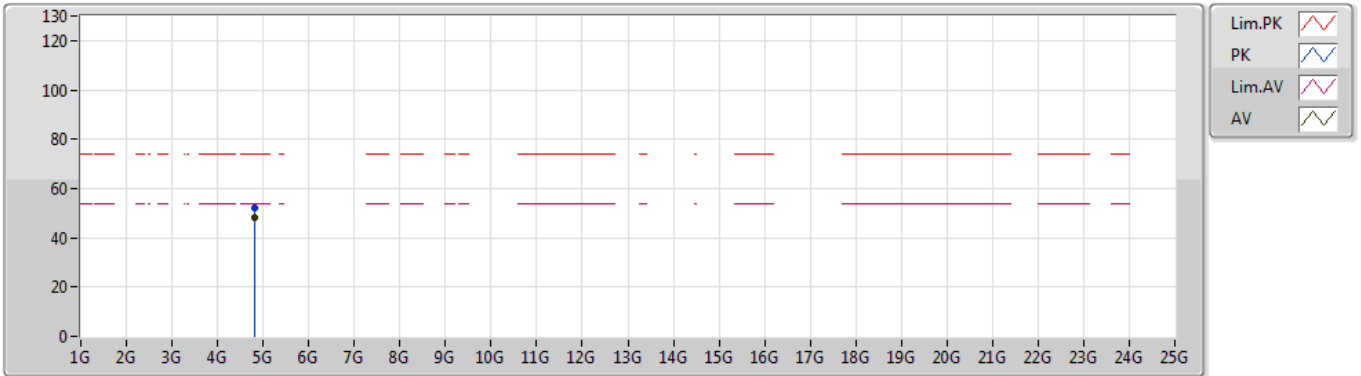
EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.334G       | 60.23             | 74.00             | -13.77         | 30.17          | 3           | Horizontal | 355            | 2.20          | -       | 30.06         |
| AV   | 2.3268G      | 53.11             | 54.00             | -0.89          | 30.17          | 3           | Horizontal | 355            | 2.20          | -       | 22.94         |
| PK   | 2.412G       | 114.32            | Inf               | -Inf           | 30.16          | 3           | Horizontal | 355            | 2.20          | -       | 84.16         |
| AV   | 2.4114G      | 109.57            | Inf               | -Inf           | 30.16          | 3           | Horizontal | 355            | 2.20          | -       | 79.41         |
| PK   | 2.4972G      | 58.53             | 74.00             | -15.47         | 30.54          | 3           | Horizontal | 355            | 2.20          | -       | 27.99         |
| AV   | 2.4972G      | 49.95             | 54.00             | -4.05          | 30.54          | 3           | Horizontal | 355            | 2.20          | -       | 19.41         |

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

02/03/2020

## 2412MHz\_TX

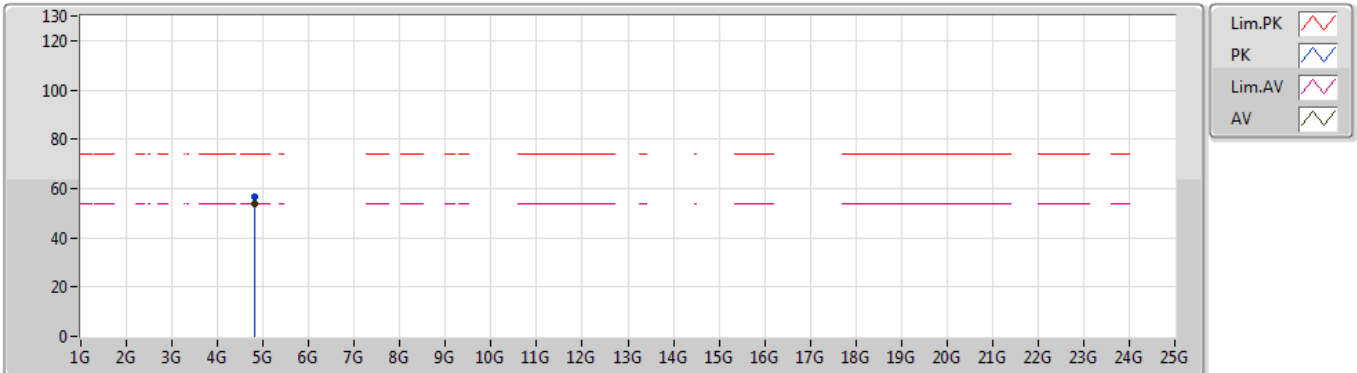

EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82397G     | 52.32             | 74.00             | -21.68         | 3.48           | 3           | Vertical  | 253            | 2.99          | -       | 48.84         |  |  |  |
| AV   | 4.82397G     | 48.37             | 54.00             | -5.63          | 3.48           | 3           | Vertical  | 253            | 2.99          | -       | 44.89         |  |  |  |

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

02/03/2020

### 2412MHz\_TX



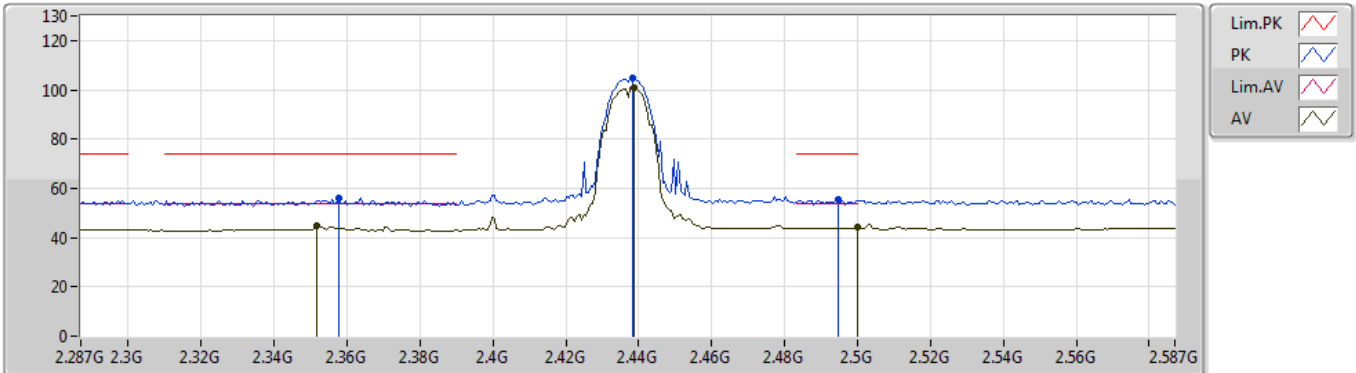
EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.824G       | 56.49             | 74.00             | -17.51         | 3.48           | 3           | Horizontal | 340            | 1.96          | -       | 53.01         |  |  |  |
| AV   | 4.82396G     | 53.87             | 54.00             | -0.13          | 3.48           | 3           | Horizontal | 340            | 1.96          | -       | 50.39         |  |  |  |

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

02/03/2020

### 2437MHz\_TX



EUT Y\_1TX\_ANT2  
04-F-W-3

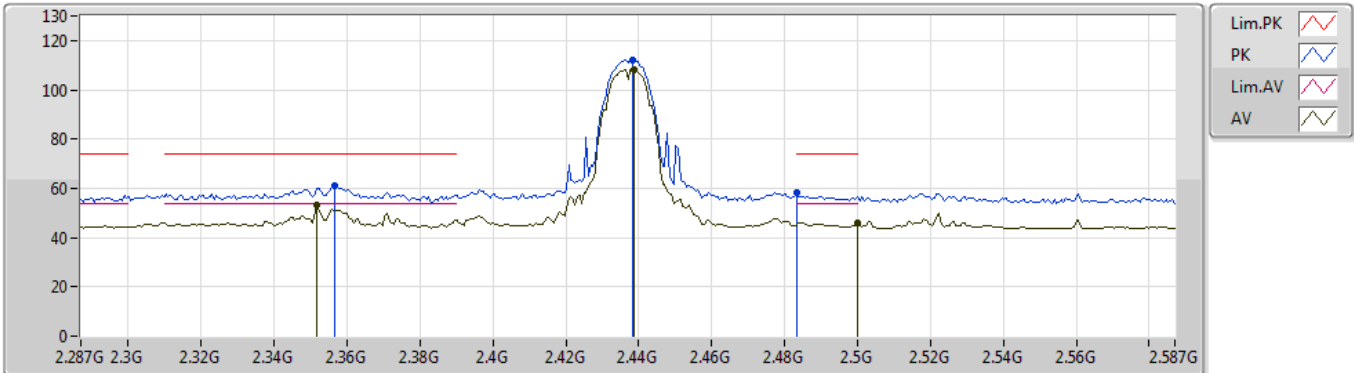
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.3578G      | 55.92             | 74.00             | -18.08         | 30.14          | 3           | Vertical  | 105            | 1.27          | -       | 25.78         |  |  |  |
| AV   | 2.3518G      | 45.06             | 54.00             | -8.94          | 30.15          | 3           | Vertical  | 105            | 1.27          | -       | 14.91         |  |  |  |
| PK   | 2.4382G      | 104.82            | Inf               | -Inf           | 30.27          | 3           | Vertical  | 105            | 1.27          | -       | 74.55         |  |  |  |
| AV   | 2.4388G      | 100.80            | Inf               | -Inf           | 30.28          | 3           | Vertical  | 105            | 1.27          | -       | 70.52         |  |  |  |
| PK   | 2.4946G      | 55.53             | 74.00             | -18.47         | 30.53          | 3           | Vertical  | 105            | 1.27          | -       | 25.00         |  |  |  |
| AV   | 2.5G         | 44.38             | 54.00             | -9.62          | 30.55          | 3           | Vertical  | 105            | 1.27          | -       | 13.83         |  |  |  |



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

02/03/2020

### 2437MHz\_TX



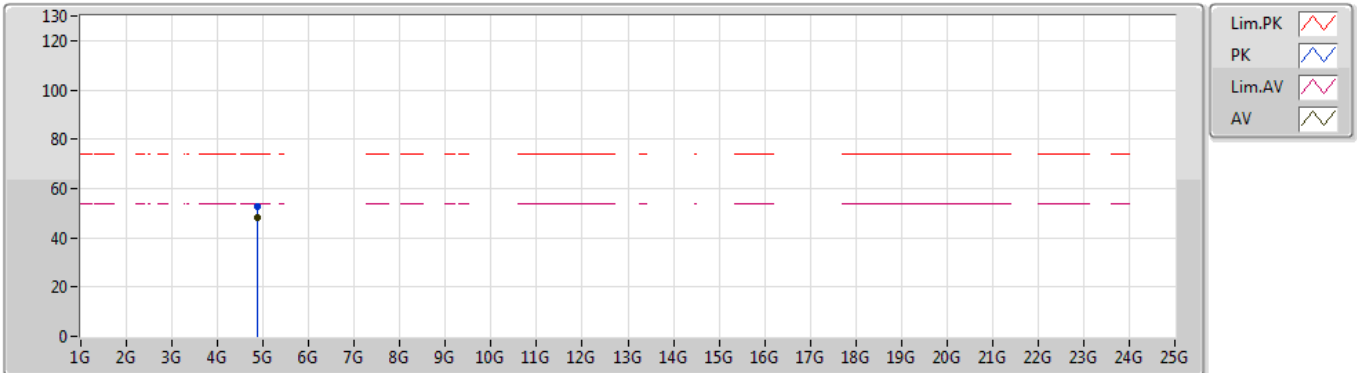
EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.356G       | 61.33             | 74.00             | -12.67         | 30.14          | 3           | Horizontal | 1              | 2.52          | -       | 31.19         |
| AV   | 2.3518G      | 53.12             | 54.00             | -0.88          | 30.15          | 3           | Horizontal | 1              | 2.52          | -       | 22.97         |
| PK   | 2.4382G      | 112.26            | Inf               | -Inf           | 30.27          | 3           | Horizontal | 1              | 2.52          | -       | 81.99         |
| AV   | 2.4388G      | 108.25            | Inf               | -Inf           | 30.28          | 3           | Horizontal | 1              | 2.52          | -       | 77.97         |
| PK   | 2.4835G      | 58.39             | 74.00             | -15.61         | 30.47          | 3           | Horizontal | 1              | 2.52          | -       | 27.92         |
| AV   | 2.5G         | 45.75             | 54.00             | -8.25          | 30.55          | 3           | Horizontal | 1              | 2.52          | -       | 15.20         |

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

02/03/2020

## 2437MHz\_TX

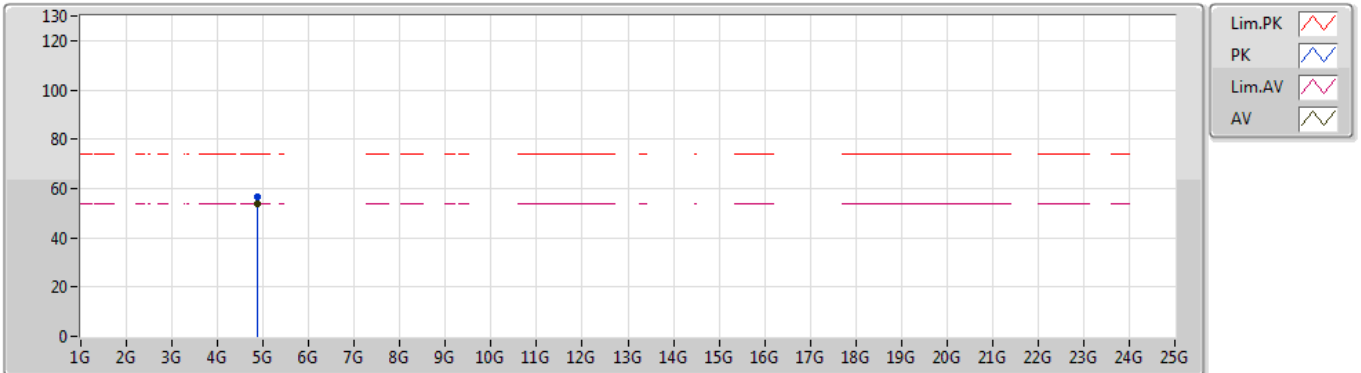

EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.87408G     | 52.75             | 74.00             | -21.25         | 3.73           | 3           | Vertical  | 255            | 2.82          | -       | 49.02         |  |  |  |
| AV   | 4.87395G     | 48.32             | 54.00             | -5.68          | 3.73           | 3           | Vertical  | 255            | 2.82          | -       | 44.59         |  |  |  |

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

02/03/2020

### 2437MHz\_TX



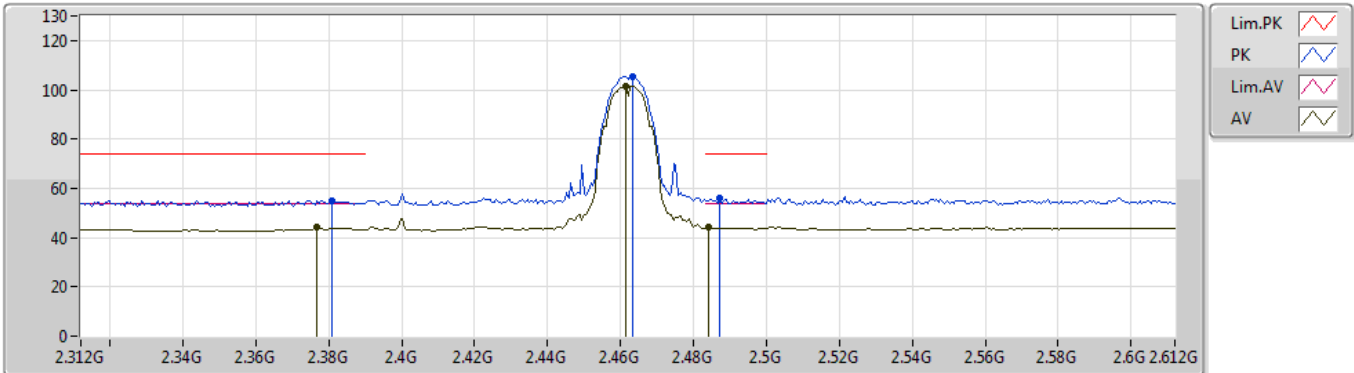
EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.87394G     | 56.81             | 74.00             | -17.19         | 3.73           | 3           | Horizontal | 339            | 1.98          | -       | 53.08         |  |  |  |
| AV   | 4.87396G     | 53.90             | 54.00             | -0.10          | 3.73           | 3           | Horizontal | 339            | 1.98          | -       | 50.17         |  |  |  |

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

02/03/2020

### 2462MHz\_TX



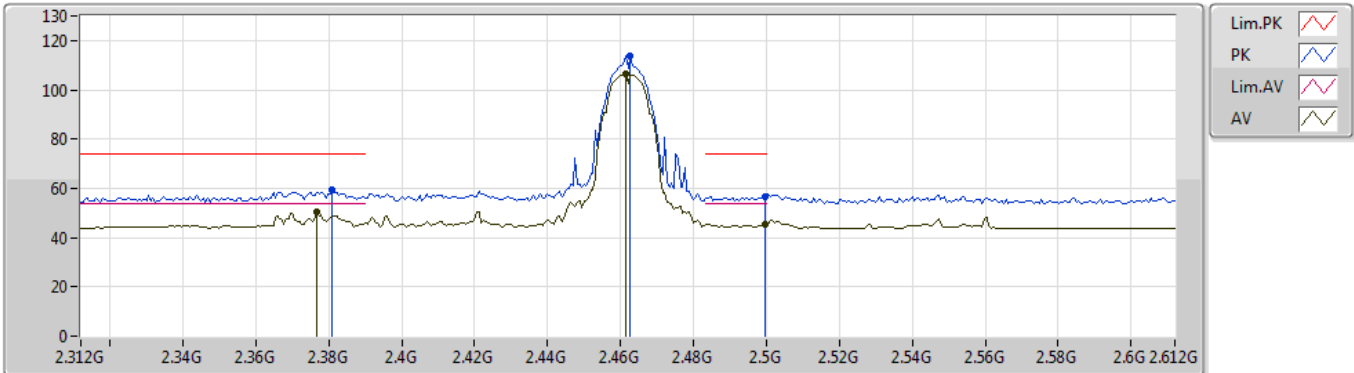
EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.381G       | 55.06             | 74.00             | -18.94         | 30.12          | 3           | Vertical  | 105            | 1.37          | -       | 24.94         |  |  |  |
| AV   | 2.3768G      | 44.01             | 54.00             | -9.99          | 30.12          | 3           | Vertical  | 105            | 1.37          | -       | 13.89         |  |  |  |
| PK   | 2.4632G      | 105.44            | Inf               | -Inf           | 30.38          | 3           | Vertical  | 105            | 1.37          | -       | 75.06         |  |  |  |
| AV   | 2.4614G      | 101.44            | Inf               | -Inf           | 30.38          | 3           | Vertical  | 105            | 1.37          | -       | 71.06         |  |  |  |
| PK   | 2.4872G      | 55.96             | 74.00             | -18.04         | 30.49          | 3           | Vertical  | 105            | 1.37          | -       | 25.47         |  |  |  |
| AV   | 2.4842G      | 44.20             | 54.00             | -9.80          | 30.48          | 3           | Vertical  | 105            | 1.37          | -       | 13.72         |  |  |  |

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

02/03/2020

### 2462MHz\_TX



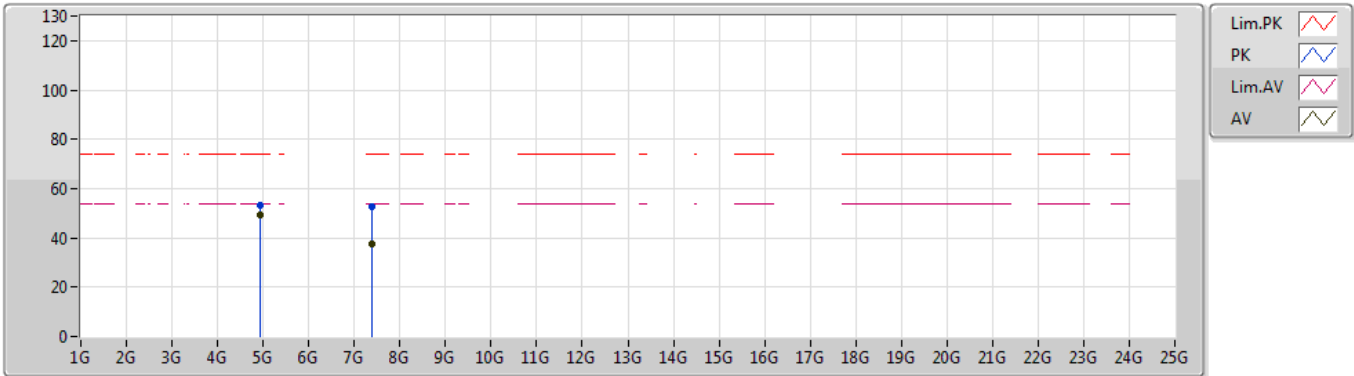
EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.381G       | 59.13             | 74.00             | -14.87         | 30.12          | 3           | Horizontal | 12             | 1.37          | -       | 29.01         |  |  |  |
| AV   | 2.3768G      | 50.38             | 54.00             | -3.62          | 30.12          | 3           | Horizontal | 12             | 1.37          | -       | 20.26         |  |  |  |
| PK   | 2.4626G      | 113.54            | Inf               | -Inf           | 30.38          | 3           | Horizontal | 12             | 1.37          | -       | 83.16         |  |  |  |
| AV   | 2.4614G      | 106.27            | Inf               | -Inf           | 30.38          | 3           | Horizontal | 12             | 1.37          | -       | 75.89         |  |  |  |
| PK   | 2.4998G      | 56.46             | 74.00             | -17.54         | 30.55          | 3           | Horizontal | 12             | 1.37          | -       | 25.91         |  |  |  |
| AV   | 2.4998G      | 45.52             | 54.00             | -8.48          | 30.55          | 3           | Horizontal | 12             | 1.37          | -       | 14.97         |  |  |  |

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

02/03/2020

### 2462MHz\_TX



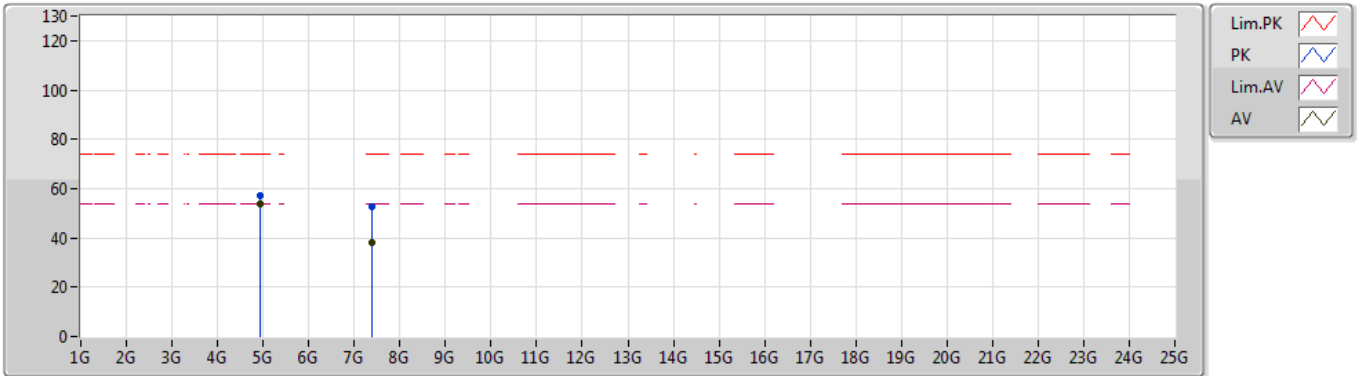
EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.92397G     | 53.49             | 74.00             | -20.51         | 3.92           | 3           | Vertical  | 252            | 2.90          | -       | 49.57         |  |  |  |
| AV   | 4.92398G     | 49.44             | 54.00             | -4.56          | 3.92           | 3           | Vertical  | 252            | 2.90          | -       | 45.52         |  |  |  |
| PK   | 7.38586G     | 52.70             | 74.00             | -21.30         | 9.61           | 3           | Vertical  | 266            | 2.84          | -       | 43.09         |  |  |  |
| AV   | 7.38458G     | 37.76             | 54.00             | -16.24         | 9.60           | 3           | Vertical  | 266            | 2.84          | -       | 28.16         |  |  |  |

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

02/03/2020

### 2462MHz\_TX



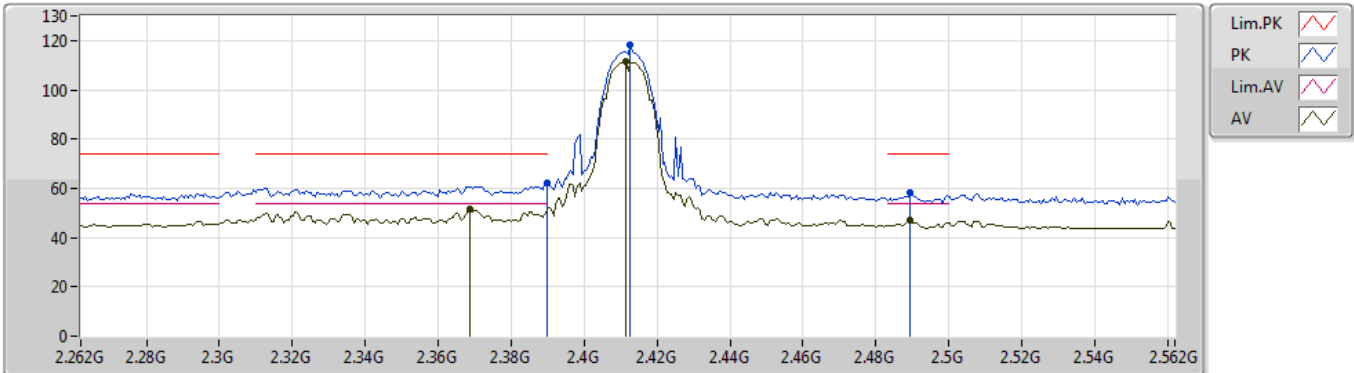
EUT Y\_1TX\_ANT2  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.92397G     | 57.24             | 74.00             | -16.76         | 3.92           | 3           | Horizontal | 339            | 1.98          | -       | 53.32         |  |  |  |
| AV   | 4.92396G     | 53.95             | 54.00             | -0.05          | 3.92           | 3           | Horizontal | 339            | 1.98          | -       | 50.03         |  |  |  |
| PK   | 7.38707G     | 52.41             | 74.00             | -21.59         | 9.61           | 3           | Horizontal | 155            | 1.69          | -       | 42.80         |  |  |  |
| AV   | 7.38504G     | 38.34             | 54.00             | -15.66         | 9.61           | 3           | Horizontal | 155            | 1.69          | -       | 28.73         |  |  |  |

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

02/03/2020

### 2412MHz\_TX



EUT Y\_1TX\_ANT3  
04-F-W-3

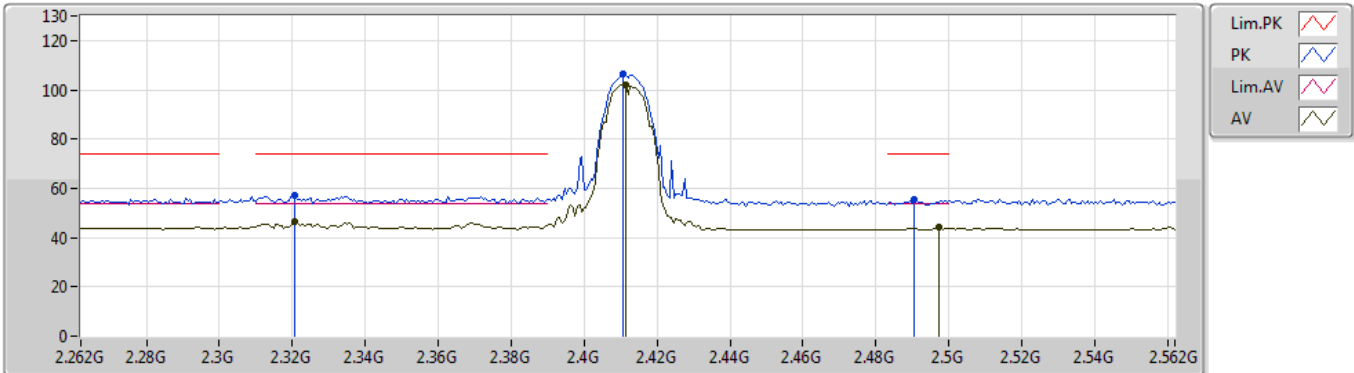
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.3898G      | 62.12             | 74.00             | -11.88         | 30.11          | 3           | Vertical  | 341            | 1.50          | -       | 32.01         |  |  |  |
| AV   | 2.3688G      | 51.46             | 54.00             | -2.54          | 30.13          | 3           | Vertical  | 341            | 1.50          | -       | 21.33         |  |  |  |
| PK   | 2.4126G      | 118.26            | Inf               | -Inf           | 30.16          | 3           | Vertical  | 341            | 1.50          | -       | 88.10         |  |  |  |
| AV   | 2.4114G      | 111.52            | Inf               | -Inf           | 30.16          | 3           | Vertical  | 341            | 1.50          | -       | 81.36         |  |  |  |
| PK   | 2.4894G      | 58.11             | 74.00             | -15.89         | 30.50          | 3           | Vertical  | 341            | 1.50          | -       | 27.61         |  |  |  |
| AV   | 2.4894G      | 46.80             | 54.00             | -7.20          | 30.50          | 3           | Vertical  | 341            | 1.50          | -       | 16.30         |  |  |  |



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

02/03/2020

### 2412MHz\_TX



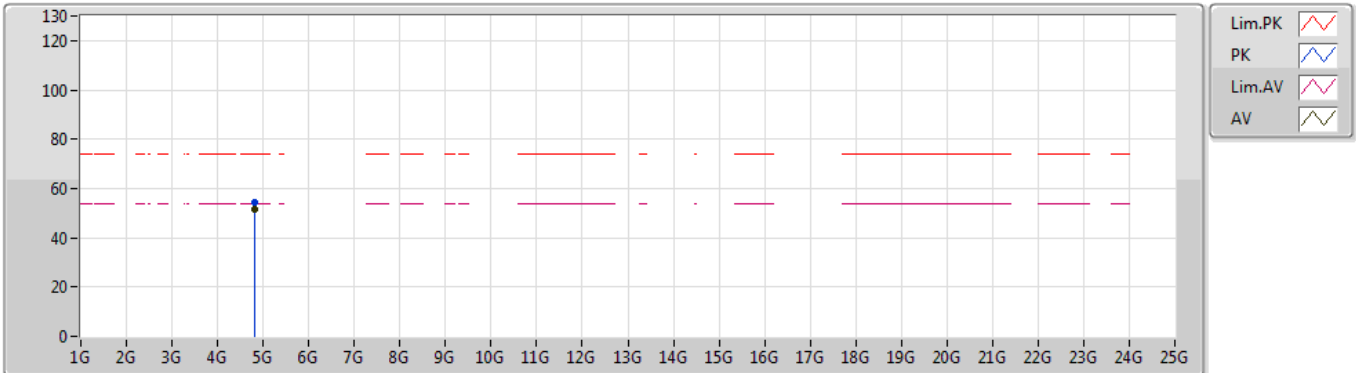
EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3208G      | 57.07             | 74.00             | -16.93         | 30.18          | 3           | Horizontal | 214            | 1.50          | -       | 26.89         |
| AV   | 2.3208G      | 46.34             | 54.00             | -7.66          | 30.18          | 3           | Horizontal | 214            | 1.50          | -       | 16.16         |
| PK   | 2.4108G      | 106.22            | Inf               | -Inf           | 30.15          | 3           | Horizontal | 214            | 1.50          | -       | 76.07         |
| AV   | 2.4114G      | 102.14            | Inf               | -Inf           | 30.16          | 3           | Horizontal | 214            | 1.50          | -       | 71.98         |
| PK   | 2.4906G      | 55.69             | 74.00             | -18.31         | 30.51          | 3           | Horizontal | 214            | 1.50          | -       | 25.18         |
| AV   | 2.4972G      | 44.10             | 54.00             | -9.90          | 30.54          | 3           | Horizontal | 214            | 1.50          | -       | 13.56         |

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

02/03/2020

### 2412MHz\_TX



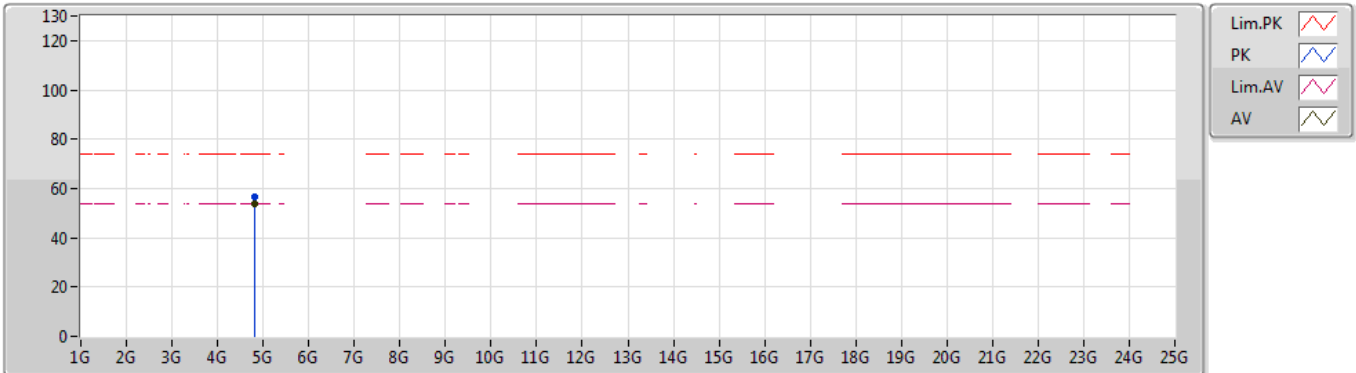
EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82396G     | 54.63             | 74.00             | -19.37         | 3.48           | 3           | Vertical  | 92             | 1.61          | -       | 51.15         |  |  |  |
| AV   | 4.82396G     | 51.56             | 54.00             | -2.44          | 3.48           | 3           | Vertical  | 92             | 1.61          | -       | 48.08         |  |  |  |

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

02/03/2020

### 2412MHz\_TX



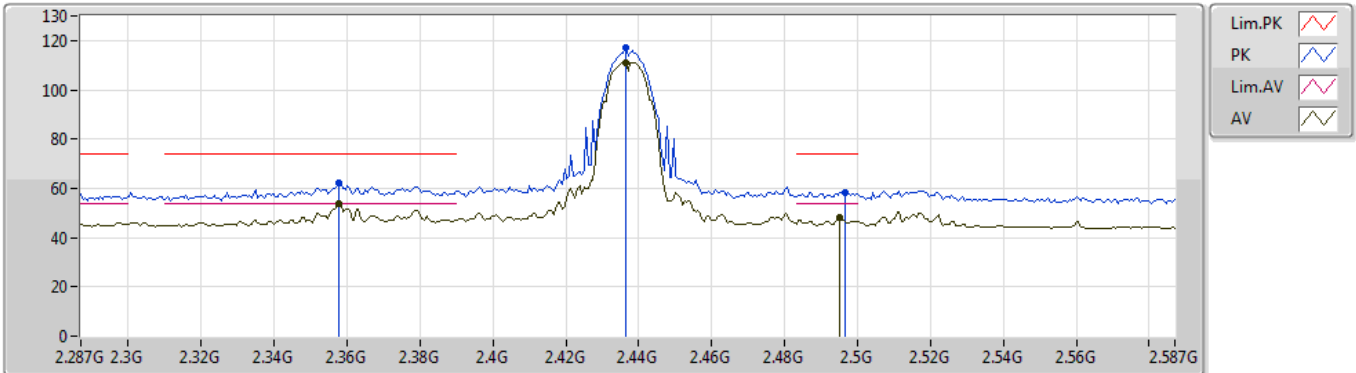
EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82402G     | 56.68             | 74.00             | -17.32         | 3.48           | 3           | Horizontal | 351            | 2.42          | -       | 53.20         |  |  |  |
| AV   | 4.82397G     | 53.98             | 54.00             | -0.02          | 3.48           | 3           | Horizontal | 351            | 2.42          | -       | 50.50         |  |  |  |

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

02/03/2020

### 2437MHz\_TX



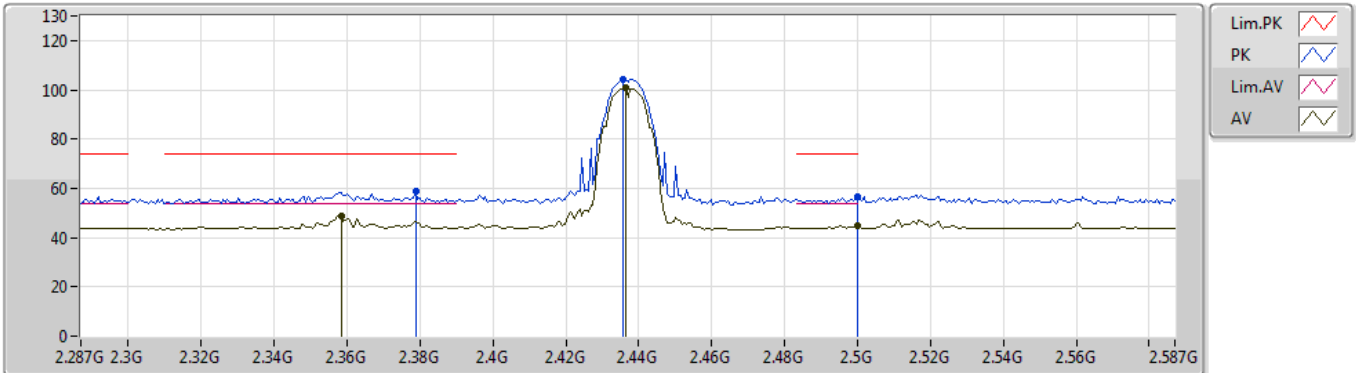
EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3578G      | 62.05             | 74.00             | -11.95         | 30.14          | 3           | Vertical  | 276            | 1.70          | -       | 31.91         |
| AV   | 2.3578G      | 53.67             | 54.00             | -0.33          | 30.14          | 3           | Vertical  | 276            | 1.70          | -       | 23.53         |
| PK   | 2.4364G      | 116.93            | Inf               | -Inf           | 30.27          | 3           | Vertical  | 276            | 1.70          | -       | 86.66         |
| AV   | 2.4364G      | 111.20            | Inf               | -Inf           | 30.27          | 3           | Vertical  | 276            | 1.70          | -       | 80.93         |
| PK   | 2.4964G      | 58.25             | 74.00             | -15.75         | 30.54          | 3           | Vertical  | 276            | 1.70          | -       | 27.71         |
| AV   | 2.4952G      | 47.92             | 54.00             | -6.08          | 30.53          | 3           | Vertical  | 276            | 1.70          | -       | 17.39         |

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

02/03/2020

### 2437MHz\_TX



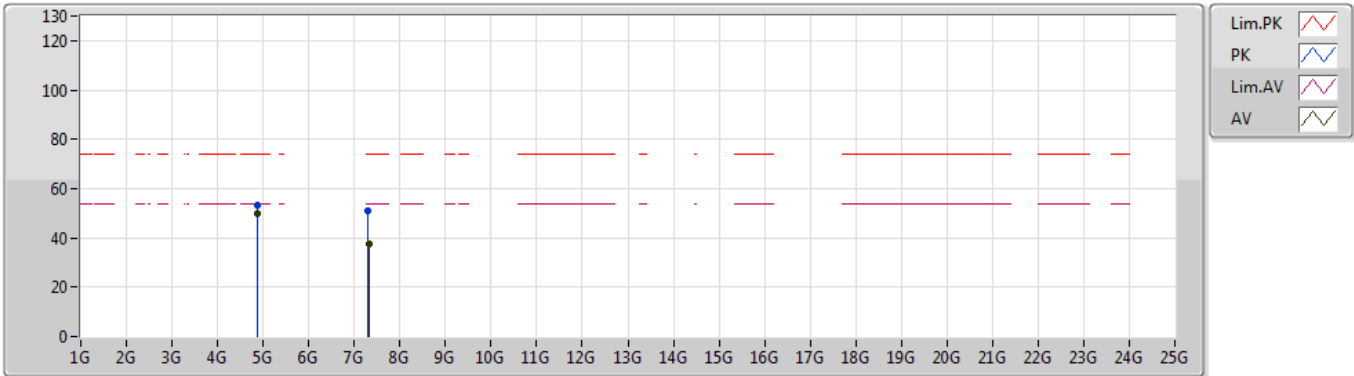
EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3788G      | 58.57             | 74.00             | -15.43         | 30.12          | 3           | Horizontal | 168            | 1.50          | -       | 28.45         |
| AV   | 2.3584G      | 49.02             | 54.00             | -4.98          | 30.14          | 3           | Horizontal | 168            | 1.50          | -       | 18.88         |
| PK   | 2.4358G      | 104.47            | Inf               | -Inf           | 30.26          | 3           | Horizontal | 168            | 1.50          | -       | 74.21         |
| AV   | 2.4364G      | 100.64            | Inf               | -Inf           | 30.27          | 3           | Horizontal | 168            | 1.50          | -       | 70.37         |
| PK   | 2.5G         | 56.63             | 74.00             | -17.37         | 30.55          | 3           | Horizontal | 168            | 1.50          | -       | 26.08         |
| AV   | 2.5G         | 44.72             | 54.00             | -9.28          | 30.55          | 3           | Horizontal | 168            | 1.50          | -       | 14.17         |

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

02/03/2020

### 2437MHz\_TX



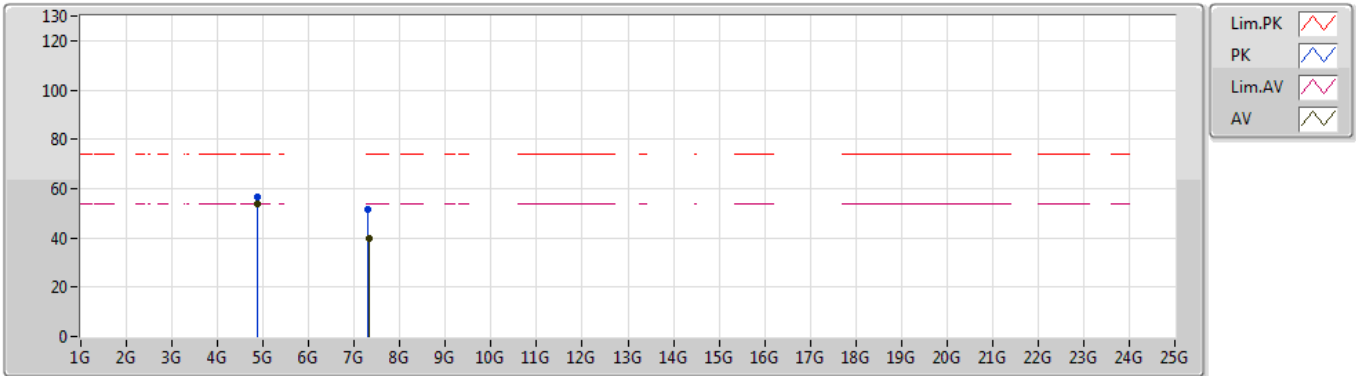
EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.874G       | 53.19             | 74.00             | -20.81         | 3.73           | 3           | Vertical  | 69             | 1.87          | -       | 49.46         |  |  |  |
| AV   | 4.87398G     | 50.08             | 54.00             | -3.92          | 3.73           | 3           | Vertical  | 69             | 1.87          | -       | 46.35         |  |  |  |
| PK   | 7.30982G     | 51.07             | 74.00             | -22.93         | 9.59           | 3           | Vertical  | 266            | 1.19          | -       | 41.48         |  |  |  |
| AV   | 7.31027G     | 37.31             | 54.00             | -16.69         | 9.59           | 3           | Vertical  | 266            | 1.19          | -       | 27.72         |  |  |  |

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

02/03/2020

### 2437MHz\_TX



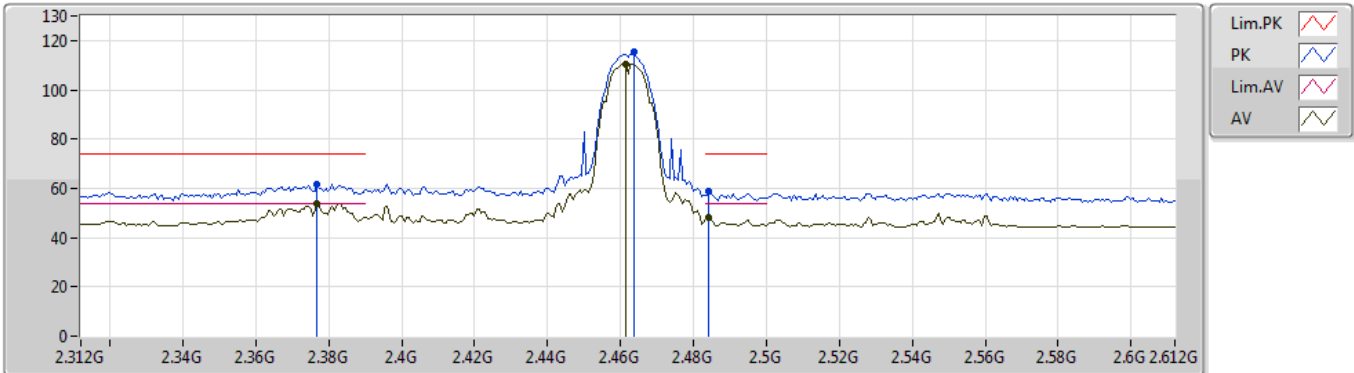
EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.87394G     | 56.51             | 74.00             | -17.49         | 3.73           | 3           | Horizontal | 337            | 2.40          | -       | 52.78         |  |  |  |
| AV   | 4.87397G     | 53.78             | 54.00             | -0.22          | 3.73           | 3           | Horizontal | 337            | 2.40          | -       | 50.05         |  |  |  |
| PK   | 7.30992G     | 51.81             | 74.00             | -22.19         | 9.59           | 3           | Horizontal | 350            | 1.54          | -       | 42.22         |  |  |  |
| AV   | 7.31188G     | 39.72             | 54.00             | -14.28         | 9.59           | 3           | Horizontal | 350            | 1.54          | -       | 30.13         |  |  |  |

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

02/03/2020

### 2462MHz\_TX



EUT Y\_1TX\_ANT3  
04-F-W-3

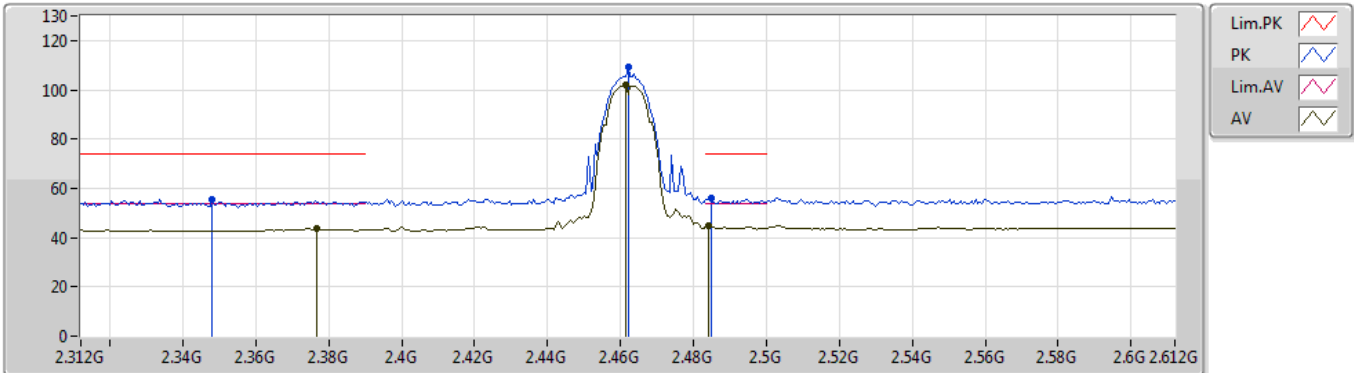
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.3768G      | 61.52             | 74.00             | -12.48         | 30.12          | 3           | Vertical  | 343            | 2.61          | -       | 31.40         |  |  |  |
| AV   | 2.3768G      | 53.88             | 54.00             | -0.12          | 30.12          | 3           | Vertical  | 343            | 2.61          | -       | 23.76         |  |  |  |
| PK   | 2.4638G      | 115.18            | Inf               | -Inf           | 30.39          | 3           | Vertical  | 343            | 2.61          | -       | 84.79         |  |  |  |
| AV   | 2.4614G      | 110.45            | Inf               | -Inf           | 30.38          | 3           | Vertical  | 343            | 2.61          | -       | 80.07         |  |  |  |
| PK   | 2.4842G      | 58.94             | 74.00             | -15.06         | 30.48          | 3           | Vertical  | 343            | 2.61          | -       | 28.46         |  |  |  |
| AV   | 2.4842G      | 48.09             | 54.00             | -5.91          | 30.48          | 3           | Vertical  | 343            | 2.61          | -       | 17.61         |  |  |  |



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

02/03/2020

### 2462MHz\_TX



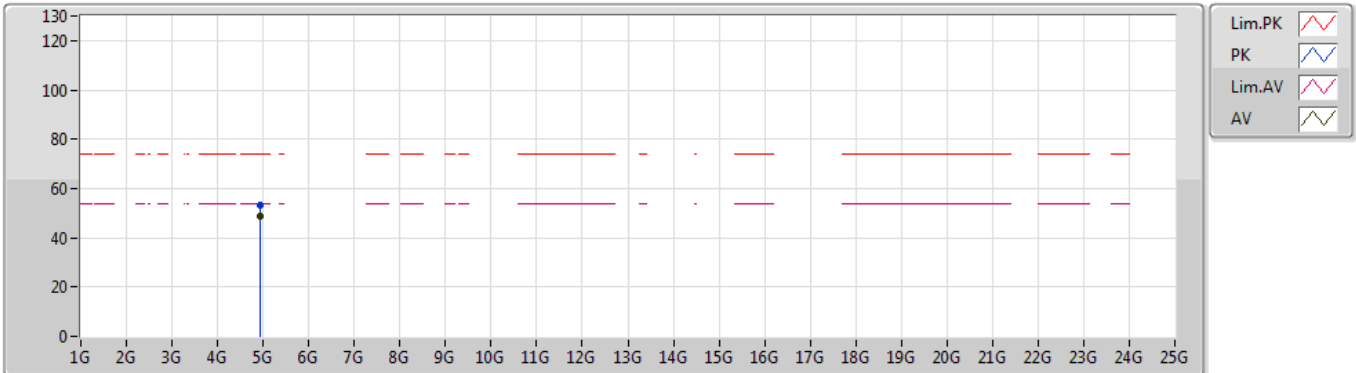
EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.348G       | 55.42             | 74.00             | -18.58         | 30.15          | 3           | Horizontal | 242            | 1.72          | -       | 25.27         |
| AV   | 2.3768G      | 43.87             | 54.00             | -10.13         | 30.12          | 3           | Horizontal | 242            | 1.72          | -       | 13.75         |
| PK   | 2.462G       | 109.54            | Inf               | -Inf           | 30.38          | 3           | Horizontal | 242            | 1.72          | -       | 79.16         |
| AV   | 2.4614G      | 101.73            | Inf               | -Inf           | 30.38          | 3           | Horizontal | 242            | 1.72          | -       | 71.35         |
| PK   | 2.4848G      | 56.00             | 74.00             | -18.00         | 30.48          | 3           | Horizontal | 242            | 1.72          | -       | 25.52         |
| AV   | 2.4842G      | 44.74             | 54.00             | -9.26          | 30.48          | 3           | Horizontal | 242            | 1.72          | -       | 14.26         |

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

02/03/2020

### 2462MHz\_TX



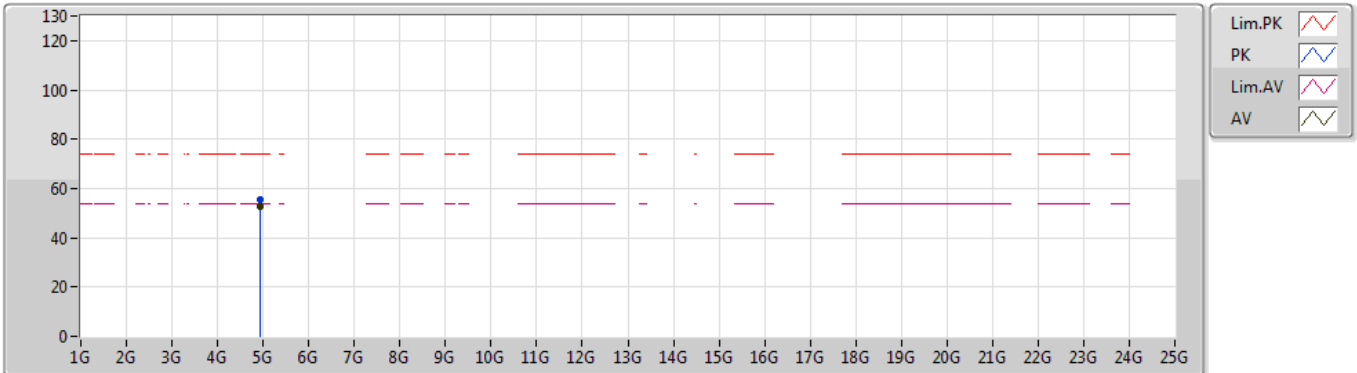
EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.92405G     | 53.32             | 74.00             | -20.68         | 3.92           | 3           | Vertical  | 107            | 1.45          | -       | 49.40         |  |  |  |
| AV   | 4.92396G     | 48.76             | 54.00             | -5.24          | 3.92           | 3           | Vertical  | 107            | 1.45          | -       | 44.84         |  |  |  |

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

02/03/2020

## 2462MHz\_TX

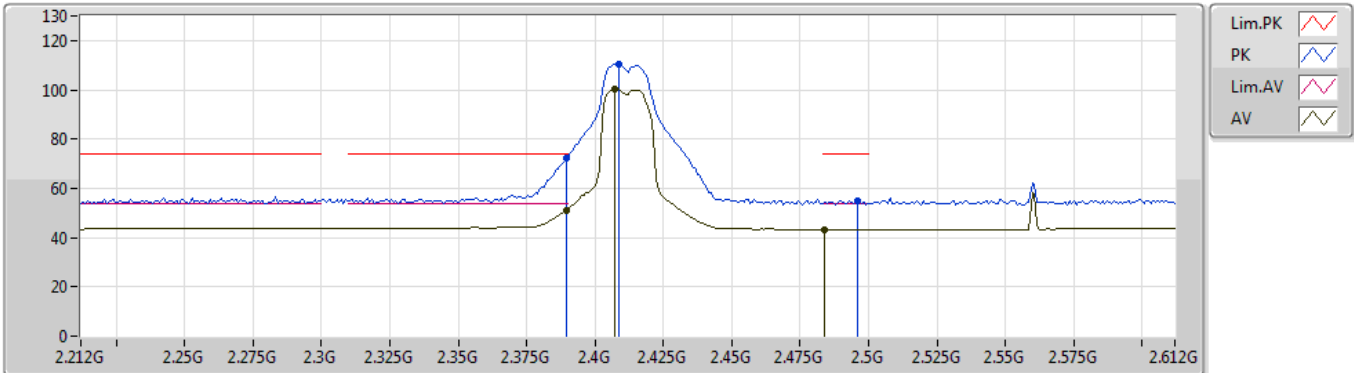

EUT Y\_1TX\_ANT3  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.924G       | 55.72             | 74.00             | -18.28         | 3.92           | 3           | Horizontal | 328            | 1.96          | -       | 51.80         |  |  |  |
| AV   | 4.92396G     | 52.73             | 54.00             | -1.27          | 3.92           | 3           | Horizontal | 328            | 1.96          | -       | 48.81         |  |  |  |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2412MHz\_TX



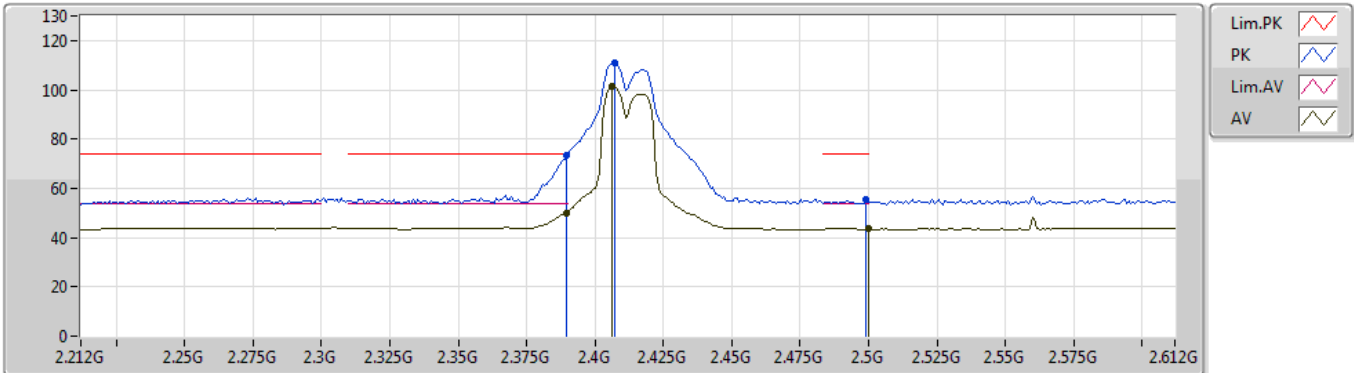
EUT\_Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3896G      | 72.50             | 74.00             | -1.50          | 30.21          | 3           | Vertical  | 336            | 1.84          | -       | 42.29         |
| AV   | 2.3896G      | 51.25             | 54.00             | -2.75          | 30.21          | 3           | Vertical  | 336            | 1.84          | -       | 21.04         |
| PK   | 2.4088G      | 110.57            | Inf               | -Inf           | 30.24          | 3           | Vertical  | 336            | 1.84          | -       | 80.33         |
| AV   | 2.4072G      | 100.28            | Inf               | -Inf           | 30.23          | 3           | Vertical  | 336            | 1.84          | -       | 70.05         |
| PK   | 2.496G       | 54.83             | 74.00             | -19.17         | 30.58          | 3           | Vertical  | 336            | 1.84          | -       | 24.25         |
| AV   | 2.484G       | 43.32             | 54.00             | -10.68         | 30.54          | 3           | Vertical  | 336            | 1.84          | -       | 12.78         |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2412MHz\_TX



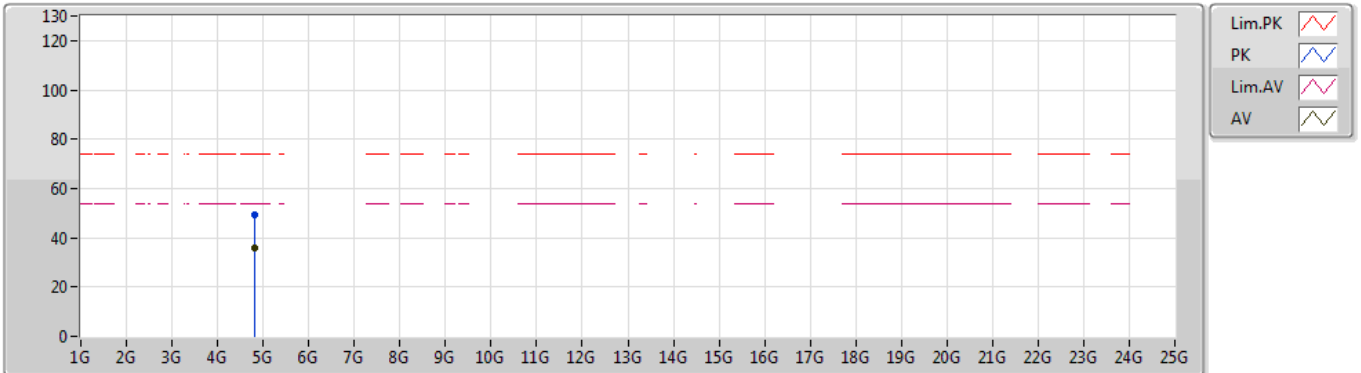
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3896G      | 73.64             | 74.00             | -0.36          | 30.21          | 3           | Horizontal | 170            | 2.41          | -       | 43.43         |
| AV   | 2.3896G      | 50.08             | 54.00             | -3.92          | 30.21          | 3           | Horizontal | 170            | 2.41          | -       | 19.87         |
| PK   | 2.4072G      | 110.76            | Inf               | -Inf           | 30.23          | 3           | Horizontal | 170            | 2.41          | -       | 80.53         |
| AV   | 2.4064G      | 101.21            | Inf               | -Inf           | 30.23          | 3           | Horizontal | 170            | 2.41          | -       | 70.98         |
| PK   | 2.4992G      | 55.52             | 74.00             | -18.48         | 30.60          | 3           | Horizontal | 170            | 2.41          | -       | 24.92         |
| AV   | 2.5G         | 43.70             | 54.00             | -10.30         | 30.60          | 3           | Horizontal | 170            | 2.41          | -       | 13.10         |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2412MHz\_TX



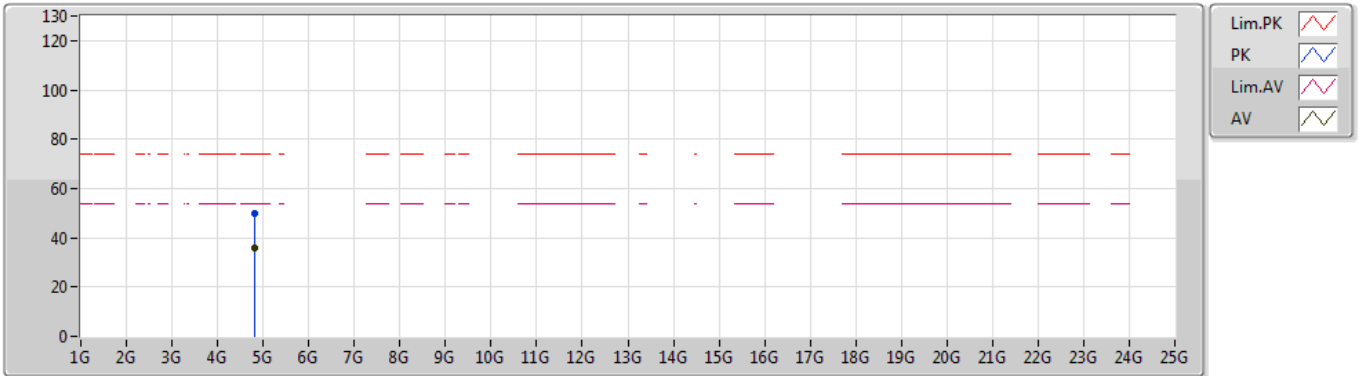
EUT\_Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82352G     | 49.47             | 74.00             | -24.53         | 3.50           | 3           | Vertical  | 87             | 1.55          | -       | 45.97         |  |  |  |
| AV   | 4.82382G     | 36.13             | 54.00             | -17.87         | 3.51           | 3           | Vertical  | 87             | 1.55          | -       | 32.62         |  |  |  |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2412MHz\_TX



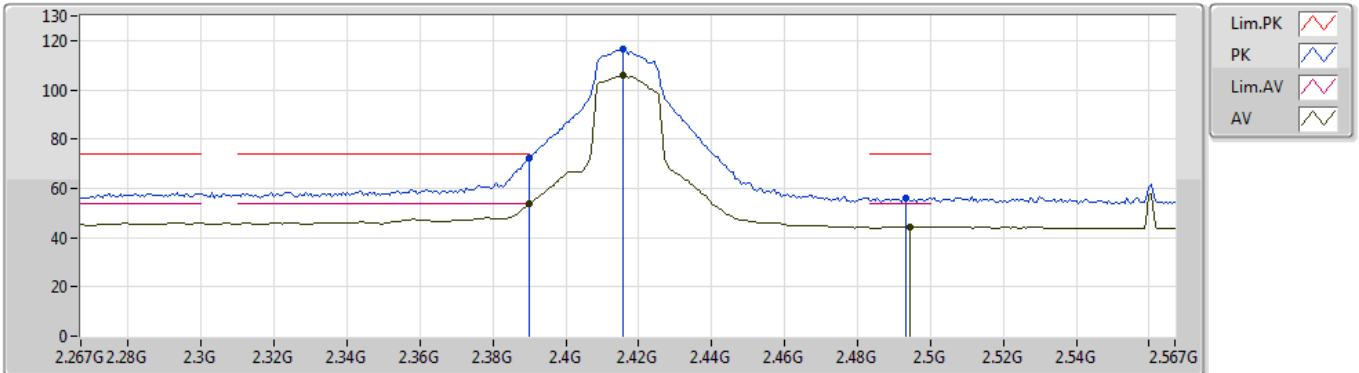
EUT\_Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82754G     | 50.08             | 74.00             | -23.92         | 3.52           | 3           | Horizontal | 328            | 1.88          | -       | 46.56         |  |  |  |
| AV   | 4.82664G     | 36.02             | 54.00             | -17.98         | 3.52           | 3           | Horizontal | 328            | 1.88          | -       | 32.50         |  |  |  |

# 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

## 2417MHz\_TX


EUT Y\_4TX  
04-F-W-3

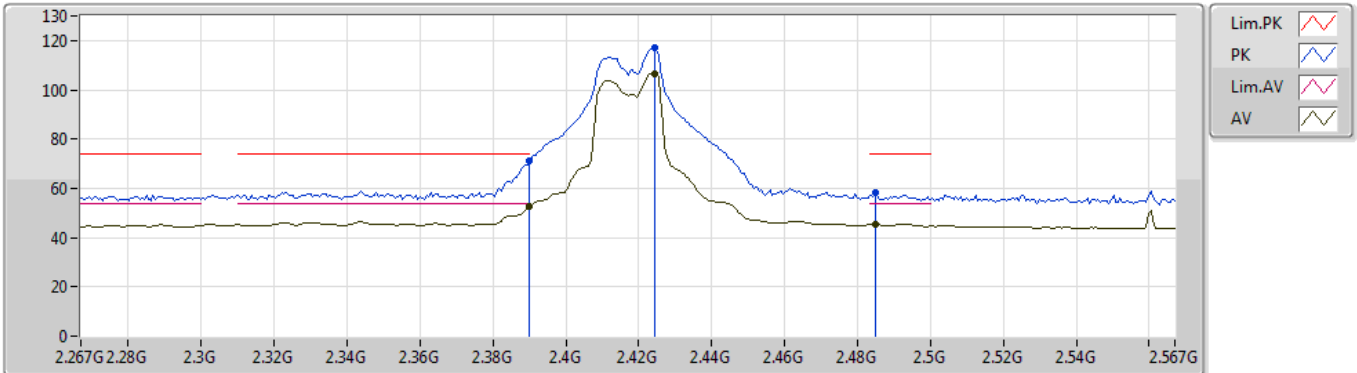
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.39G        | 72.13             | 74.00             | -1.87          | 30.21          | 3           | Vertical  | 25             | 1.50          | -       | 41.92         |  |  |  |
| AV   | 2.39G        | 53.58             | 54.00             | -0.42          | 30.21          | 3           | Vertical  | 25             | 1.50          | -       | 23.37         |  |  |  |
| PK   | 2.4158G      | 116.28            | Inf               | -Inf           | 30.26          | 3           | Vertical  | 25             | 1.50          | -       | 86.02         |  |  |  |
| AV   | 2.4158G      | 105.94            | Inf               | -Inf           | 30.26          | 3           | Vertical  | 25             | 1.50          | -       | 75.68         |  |  |  |
| PK   | 2.4932G      | 56.17             | 74.00             | -17.83         | 30.57          | 3           | Vertical  | 25             | 1.50          | -       | 25.60         |  |  |  |
| AV   | 2.4944G      | 44.44             | 54.00             | -9.56          | 30.58          | 3           | Vertical  | 25             | 1.50          | -       | 13.86         |  |  |  |



## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2417MHz\_TX



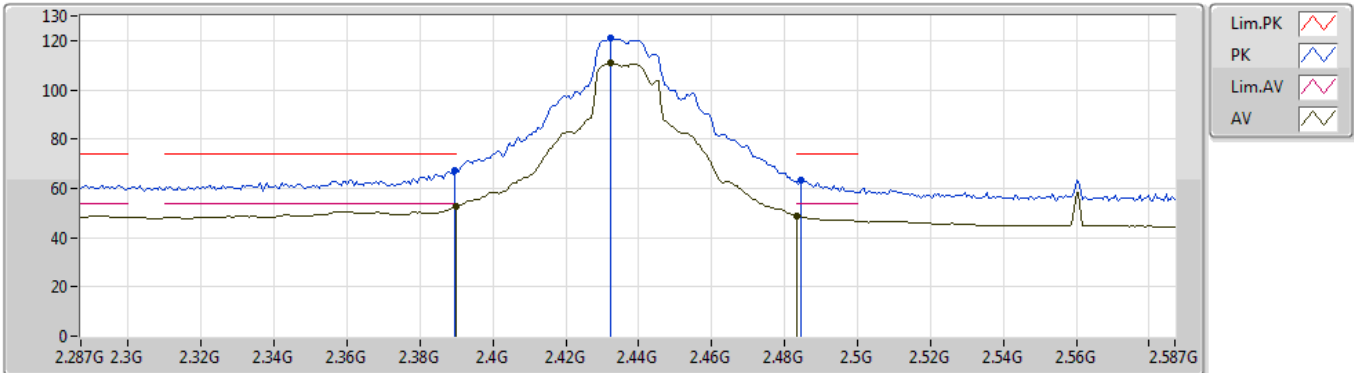
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.39G        | 70.96             | 74.00             | -3.04          | 30.21          | 3           | Horizontal | 182            | 1.55          | -       | 40.75         |  |  |  |
| AV   | 2.39G        | 52.60             | 54.00             | -1.40          | 30.21          | 3           | Horizontal | 182            | 1.55          | -       | 22.39         |  |  |  |
| PK   | 2.4242G      | 117.00            | Inf               | -Inf           | 30.30          | 3           | Horizontal | 182            | 1.55          | -       | 86.70         |  |  |  |
| AV   | 2.4242G      | 106.70            | Inf               | -Inf           | 30.30          | 3           | Horizontal | 182            | 1.55          | -       | 76.40         |  |  |  |
| PK   | 2.4848G      | 58.23             | 74.00             | -15.77         | 30.54          | 3           | Horizontal | 182            | 1.55          | -       | 27.69         |  |  |  |
| AV   | 2.4848G      | 45.39             | 54.00             | -8.61          | 30.54          | 3           | Horizontal | 182            | 1.55          | -       | 14.85         |  |  |  |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2437MHz\_TX



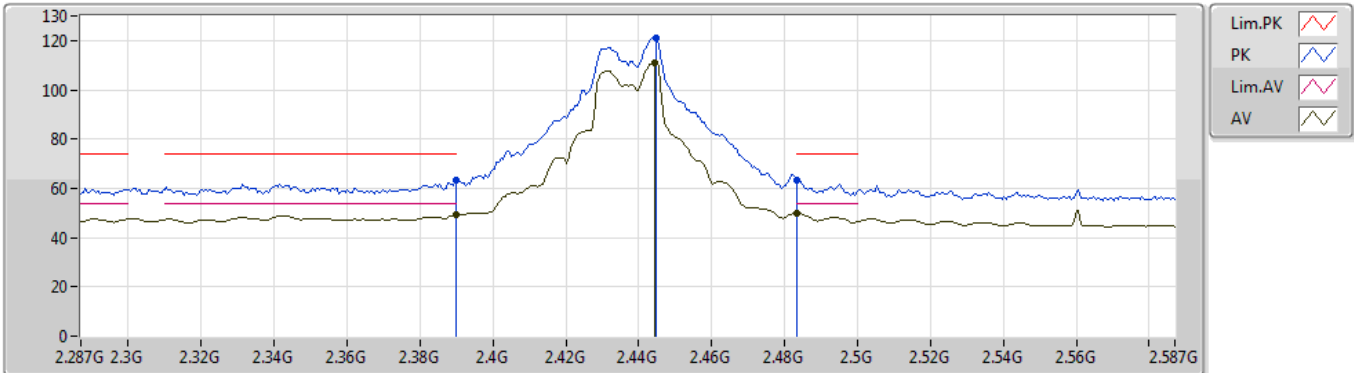
EUT\_Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3896G      | 67.11             | 74.00             | -6.89          | 30.21          | 3           | Vertical  | 4              | 1.29          | -       | 36.90         |
| AV   | 2.39G        | 52.86             | 54.00             | -1.14          | 30.21          | 3           | Vertical  | 4              | 1.29          | -       | 22.65         |
| PK   | 2.4322G      | 120.91            | Inf               | -Inf           | 30.33          | 3           | Vertical  | 4              | 1.29          | -       | 90.58         |
| AV   | 2.4322G      | 110.94            | Inf               | -Inf           | 30.33          | 3           | Vertical  | 4              | 1.29          | -       | 80.61         |
| PK   | 2.4844G      | 63.12             | 74.00             | -10.88         | 30.54          | 3           | Vertical  | 4              | 1.29          | -       | 32.58         |
| AV   | 2.4835G      | 48.67             | 54.00             | -5.33          | 30.53          | 3           | Vertical  | 4              | 1.29          | -       | 18.14         |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2437MHz\_TX



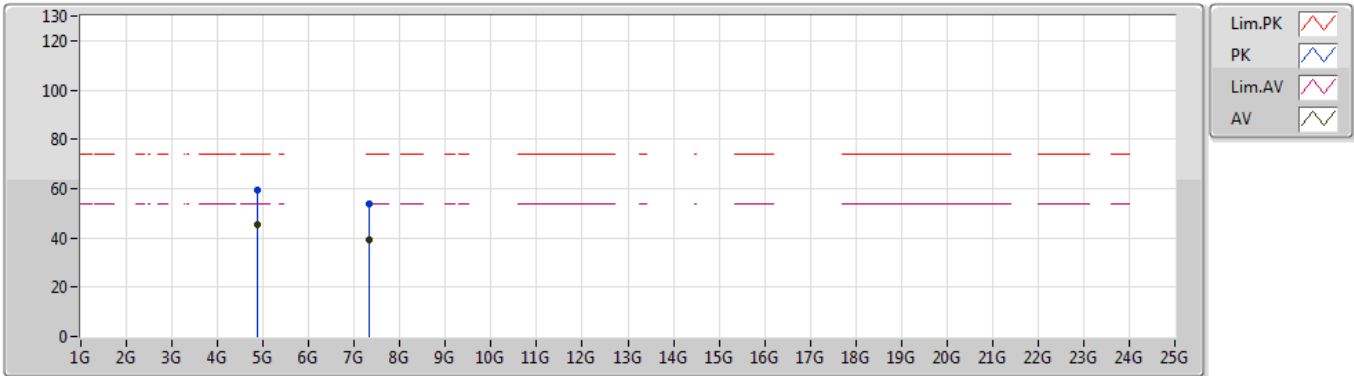
EUT\_Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.39G        | 63.08             | 74.00             | -10.92         | 30.21          | 3           | Horizontal | 182            | 1.29          | -       | 32.87         |
| AV   | 2.39G        | 49.34             | 54.00             | -4.66          | 30.21          | 3           | Horizontal | 182            | 1.29          | -       | 19.13         |
| PK   | 2.4448G      | 121.12            | Inf               | -Inf           | 30.38          | 3           | Horizontal | 182            | 1.29          | -       | 90.74         |
| AV   | 2.4442G      | 110.99            | Inf               | -Inf           | 30.38          | 3           | Horizontal | 182            | 1.29          | -       | 80.61         |
| PK   | 2.4835G      | 63.14             | 74.00             | -10.86         | 30.53          | 3           | Horizontal | 182            | 1.29          | -       | 32.61         |
| AV   | 2.4835G      | 49.92             | 54.00             | -4.08          | 30.53          | 3           | Horizontal | 182            | 1.29          | -       | 19.39         |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2437MHz\_TX



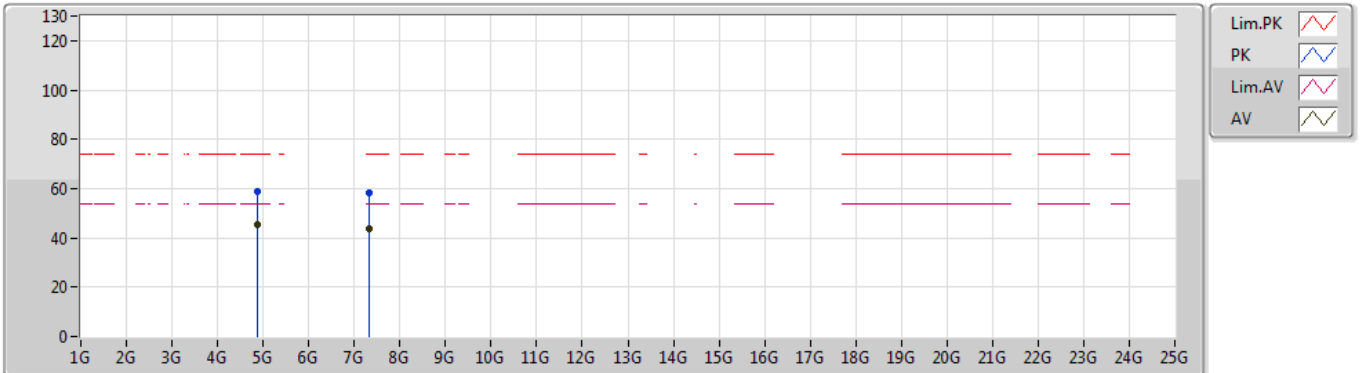
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.8746G      | 59.14             | 74.00             | -14.86         | 3.80           | 3           | Vertical  | 95             | 1.66          | -       | 55.34         |  |  |  |
| AV   | 4.87388G     | 45.28             | 54.00             | -8.72          | 3.80           | 3           | Vertical  | 95             | 1.66          | -       | 41.48         |  |  |  |
| PK   | 7.31262G     | 53.64             | 74.00             | -20.36         | 9.05           | 3           | Vertical  | 223            | 2.71          | -       | 44.59         |  |  |  |
| AV   | 7.31166G     | 39.45             | 54.00             | -14.55         | 9.06           | 3           | Vertical  | 223            | 2.71          | -       | 30.39         |  |  |  |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2437MHz\_TX



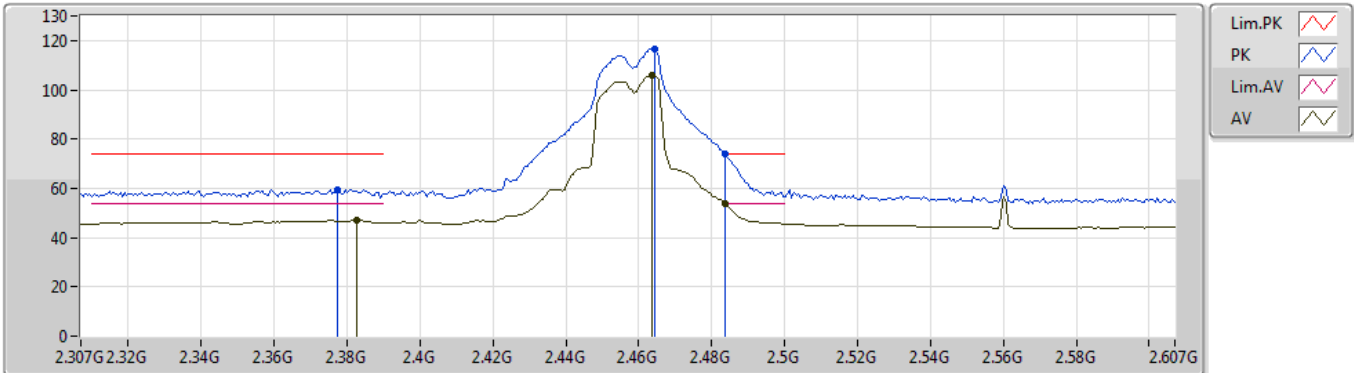
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.87784G     | 58.67             | 74.00             | -15.33         | 3.82           | 3           | Horizontal | 333            | 1.88          | -       | 54.85         |  |  |  |
| AV   | 4.87688G     | 45.49             | 54.00             | -8.51          | 3.82           | 3           | Horizontal | 333            | 1.88          | -       | 41.67         |  |  |  |
| PK   | 7.31166G     | 58.03             | 74.00             | -15.97         | 9.06           | 3           | Horizontal | 167            | 1.44          | -       | 48.97         |  |  |  |
| AV   | 7.31022G     | 43.88             | 54.00             | -10.12         | 9.05           | 3           | Horizontal | 167            | 1.44          | -       | 34.83         |  |  |  |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2457MHz\_TX



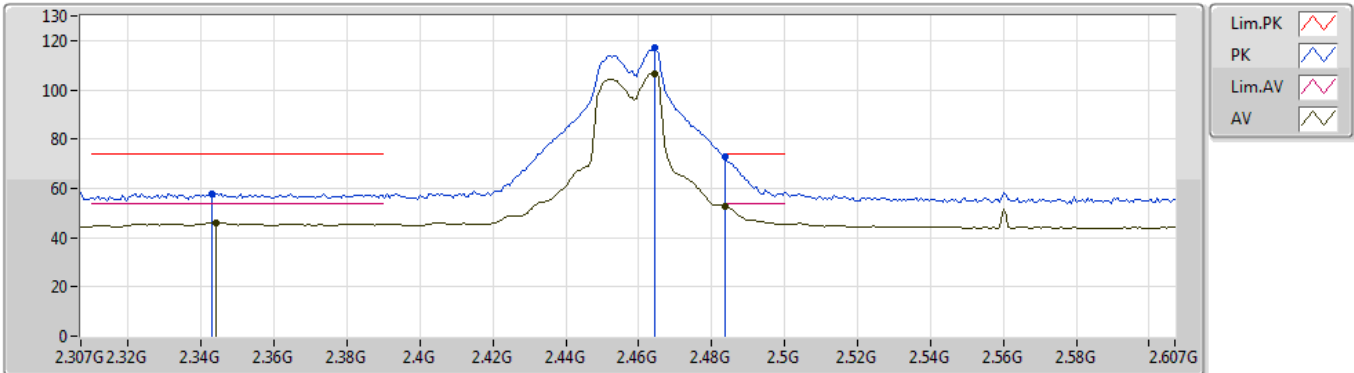
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3772G      | 59.61             | 74.00             | -14.39         | 30.22          | 3           | Vertical  | 313            | 2.66          | -       | 29.39         |
| AV   | 2.3826G      | 47.01             | 54.00             | -6.99          | 30.22          | 3           | Vertical  | 313            | 2.66          | -       | 16.79         |
| PK   | 2.4642G      | 116.78            | Inf               | -Inf           | 30.46          | 3           | Vertical  | 313            | 2.66          | -       | 86.32         |
| AV   | 2.4636G      | 106.00            | Inf               | -Inf           | 30.45          | 3           | Vertical  | 313            | 2.66          | -       | 75.55         |
| PK   | 2.4835G      | 73.95             | 74.00             | -0.05          | 30.53          | 3           | Vertical  | 313            | 2.66          | -       | 43.42         |
| AV   | 2.4835G      | 53.96             | 54.00             | -0.04          | 30.53          | 3           | Vertical  | 313            | 2.66          | -       | 23.43         |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2457MHz\_TX



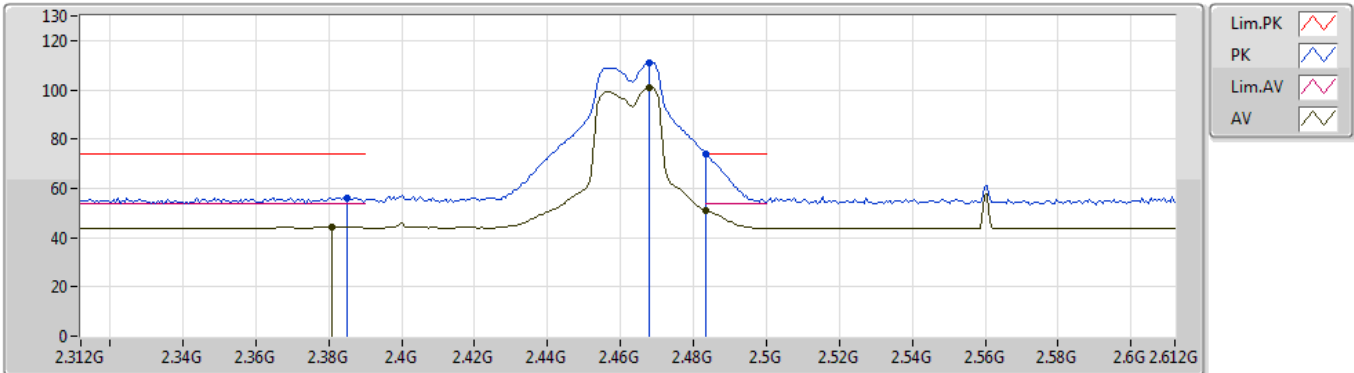
EUT\_Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.343G       | 57.96             | 74.00             | -16.04         | 30.26          | 3           | Horizontal | 183            | 1.50          | -       | 27.70         |
| AV   | 2.3442G      | 46.13             | 54.00             | -7.87          | 30.26          | 3           | Horizontal | 183            | 1.50          | -       | 15.87         |
| PK   | 2.4642G      | 116.89            | Inf               | -Inf           | 30.46          | 3           | Horizontal | 183            | 1.50          | -       | 86.43         |
| AV   | 2.4642G      | 106.63            | Inf               | -Inf           | 30.46          | 3           | Horizontal | 183            | 1.50          | -       | 76.17         |
| PK   | 2.4835G      | 72.68             | 74.00             | -1.32          | 30.53          | 3           | Horizontal | 183            | 1.50          | -       | 42.15         |
| AV   | 2.4835G      | 52.93             | 54.00             | -1.07          | 30.53          | 3           | Horizontal | 183            | 1.50          | -       | 22.40         |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2462MHz\_TX



EUT\_Y\_4TX  
04-F-W-3

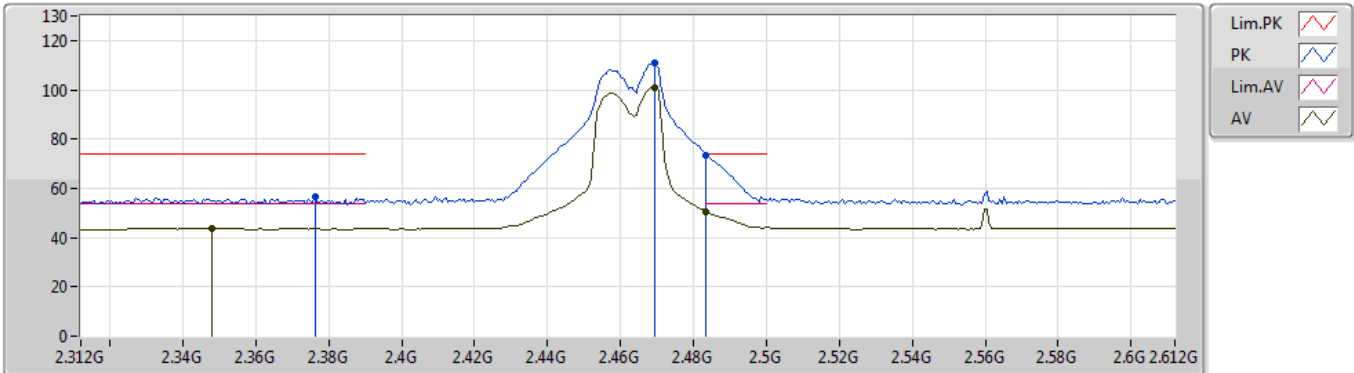
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3852G      | 56.25             | 74.00             | -17.75         | 30.21          | 3           | Vertical  | 334            | 2.77          | -       | 26.04         |
| AV   | 2.381G       | 44.21             | 54.00             | -9.79          | 30.22          | 3           | Vertical  | 334            | 2.77          | -       | 13.99         |
| PK   | 2.468G       | 111.17            | Inf               | -Inf           | 30.47          | 3           | Vertical  | 334            | 2.77          | -       | 80.70         |
| AV   | 2.468G       | 100.99            | Inf               | -Inf           | 30.47          | 3           | Vertical  | 334            | 2.77          | -       | 70.52         |
| PK   | 2.4835G      | 73.90             | 74.00             | -0.10          | 30.53          | 3           | Vertical  | 334            | 2.77          | -       | 43.37         |
| AV   | 2.4835G      | 51.10             | 54.00             | -2.90          | 30.53          | 3           | Vertical  | 334            | 2.77          | -       | 20.57         |



## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2462MHz\_TX



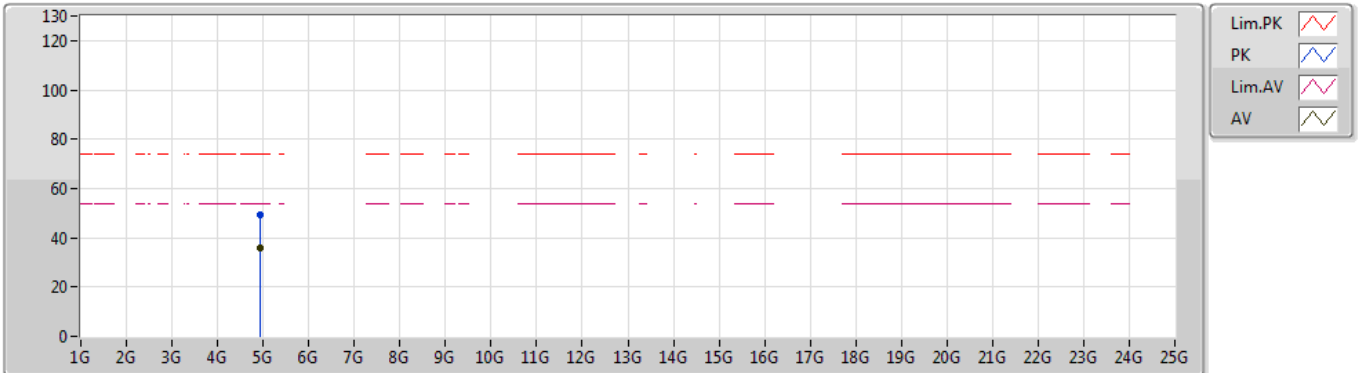
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3762G      | 56.47             | 74.00             | -17.53         | 30.22          | 3           | Horizontal | 183            | 1.50          | -       | 26.25         |
| AV   | 2.348G       | 43.89             | 54.00             | -10.11         | 30.25          | 3           | Horizontal | 183            | 1.50          | -       | 13.64         |
| PK   | 2.4692G      | 111.18            | Inf               | -Inf           | 30.48          | 3           | Horizontal | 183            | 1.50          | -       | 80.70         |
| AV   | 2.4692G      | 100.88            | Inf               | -Inf           | 30.48          | 3           | Horizontal | 183            | 1.50          | -       | 70.40         |
| PK   | 2.4835G      | 73.44             | 74.00             | -0.56          | 30.53          | 3           | Horizontal | 183            | 1.50          | -       | 42.91         |
| AV   | 2.4835G      | 50.35             | 54.00             | -3.65          | 30.53          | 3           | Horizontal | 183            | 1.50          | -       | 19.82         |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2462MHz\_TX



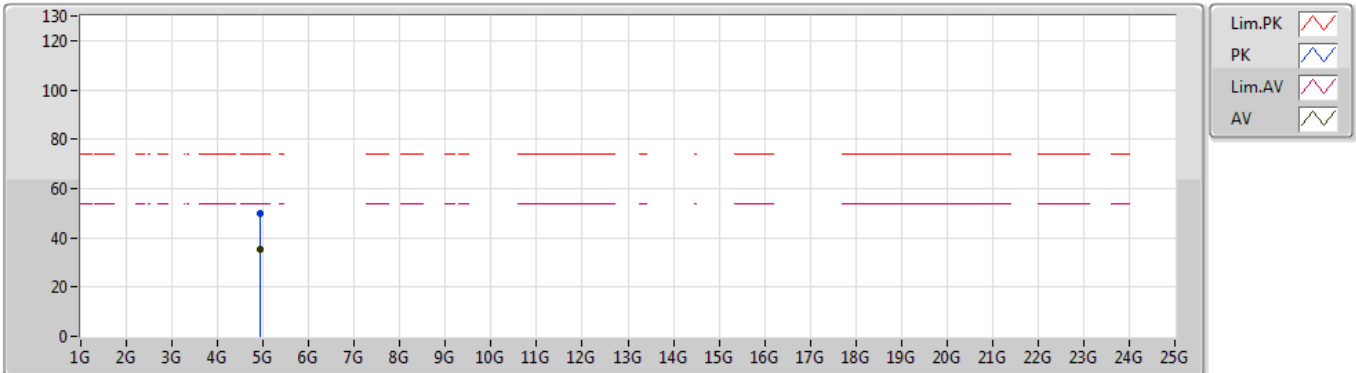
EUT\_Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.92424G     | 49.08             | 74.00             | -24.92         | 4.05           | 3           | Vertical  | 99             | 1.59          | -       | 45.03         |  |  |  |
| AV   | 4.92202G     | 35.94             | 54.00             | -18.06         | 4.03           | 3           | Vertical  | 99             | 1.59          | -       | 31.91         |  |  |  |

## 802.11g\_Nss1,(6Mbps)\_4TX

02/03/2020

### 2462MHz\_TX



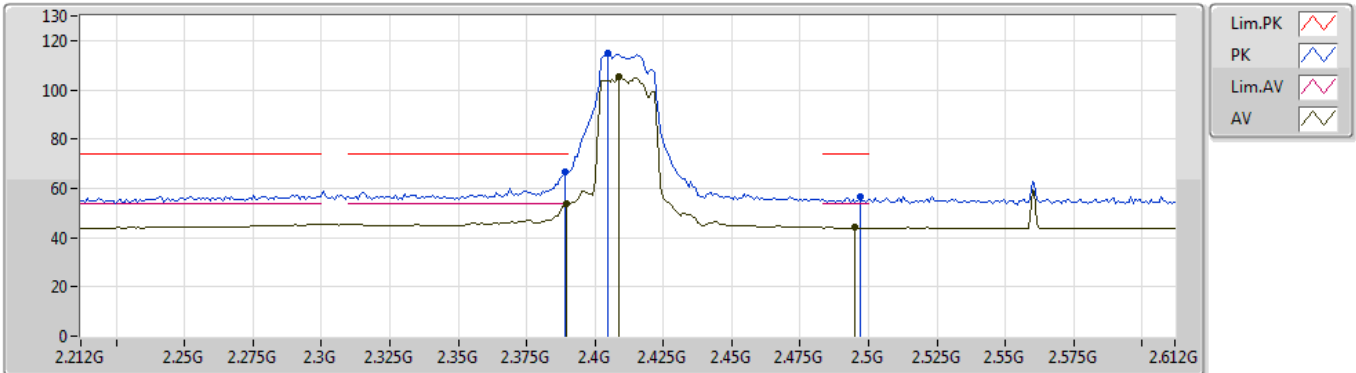
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.9255G      | 49.76             | 74.00             | -24.24         | 4.05           | 3           | Horizontal | 141            | 2.02          | -       | 45.71         |  |  |  |
| AV   | 4.924G       | 35.55             | 54.00             | -18.45         | 4.05           | 3           | Horizontal | 141            | 2.02          | -       | 31.50         |  |  |  |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2412MHz\_TX



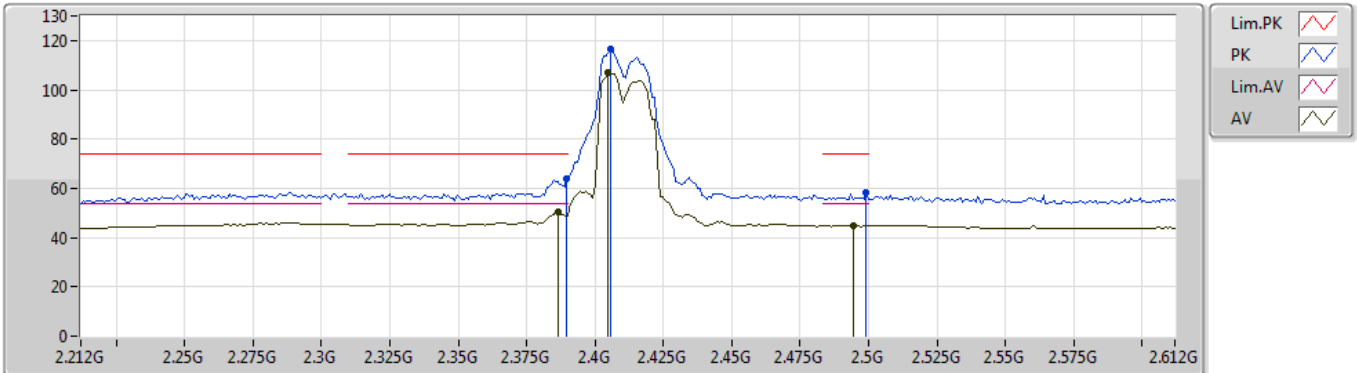
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 2.3888G      | 66.82             | 74.00             | -7.18          | 30.21          | 3           | Vertical  | 336            | 1.48          | -       | 36.61         |  |  |  |
| AV   | 2.3896G      | 53.80             | 54.00             | -0.20          | 30.21          | 3           | Vertical  | 336            | 1.48          | -       | 23.59         |  |  |  |
| PK   | 2.4048G      | 114.74            | Inf               | -Inf           | 30.22          | 3           | Vertical  | 336            | 1.48          | -       | 84.52         |  |  |  |
| AV   | 2.4088G      | 105.25            | Inf               | -Inf           | 30.24          | 3           | Vertical  | 336            | 1.48          | -       | 75.01         |  |  |  |
| PK   | 2.4968G      | 56.72             | 74.00             | -17.28         | 30.59          | 3           | Vertical  | 336            | 1.48          | -       | 26.13         |  |  |  |
| AV   | 2.4952G      | 44.02             | 54.00             | -9.98          | 30.58          | 3           | Vertical  | 336            | 1.48          | -       | 13.44         |  |  |  |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2412MHz\_TX



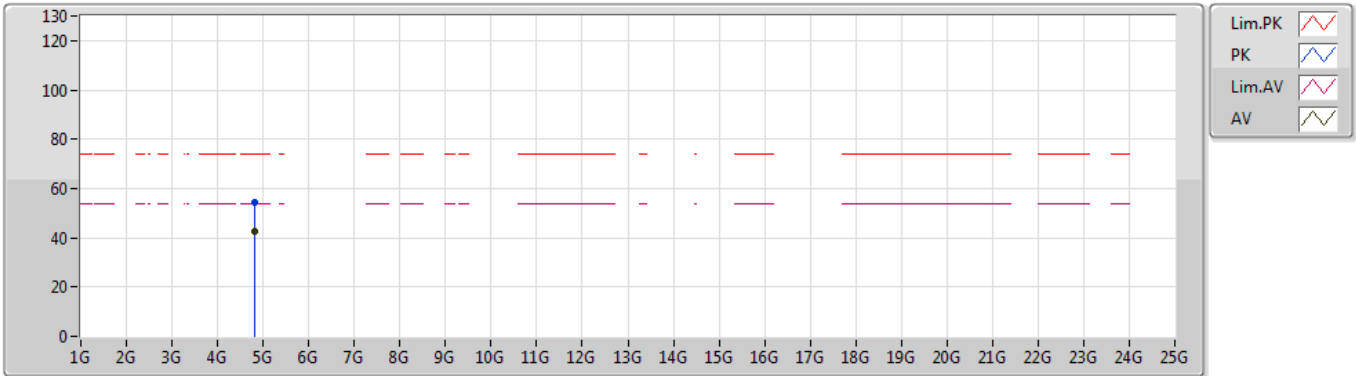
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3896G      | 63.73             | 74.00             | -10.27         | 30.21          | 3           | Horizontal | 156            | 2.95          | -       | 33.52         |
| AV   | 2.3864G      | 50.58             | 54.00             | -3.42          | 30.21          | 3           | Horizontal | 156            | 2.95          | -       | 20.37         |
| PK   | 2.4056G      | 116.66            | Inf               | -Inf           | 30.22          | 3           | Horizontal | 156            | 2.95          | -       | 86.44         |
| AV   | 2.4048G      | 106.75            | Inf               | -Inf           | 30.22          | 3           | Horizontal | 156            | 2.95          | -       | 76.53         |
| PK   | 2.4992G      | 58.29             | 74.00             | -15.71         | 30.60          | 3           | Horizontal | 156            | 2.95          | -       | 27.69         |
| AV   | 2.4944G      | 44.77             | 54.00             | -9.23          | 30.58          | 3           | Horizontal | 156            | 2.95          | -       | 14.19         |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2412MHz\_TX



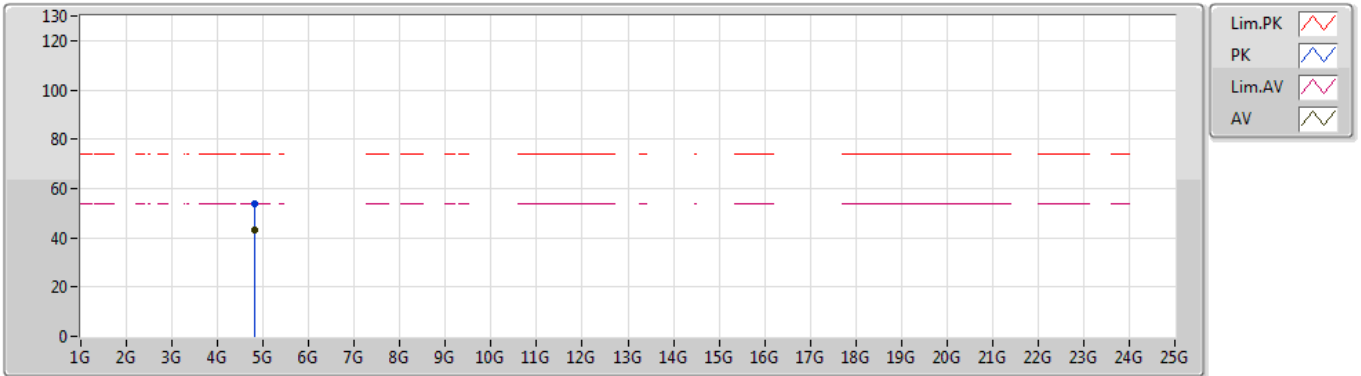
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82202G     | 54.39             | 74.00             | -19.61         | 3.49           | 3           | Vertical  | 82             | 1.50          | -       | 50.90         |  |  |  |
| AV   | 4.82196G     | 42.31             | 54.00             | -11.69         | 3.49           | 3           | Vertical  | 82             | 1.50          | -       | 38.82         |  |  |  |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2412MHz\_TX



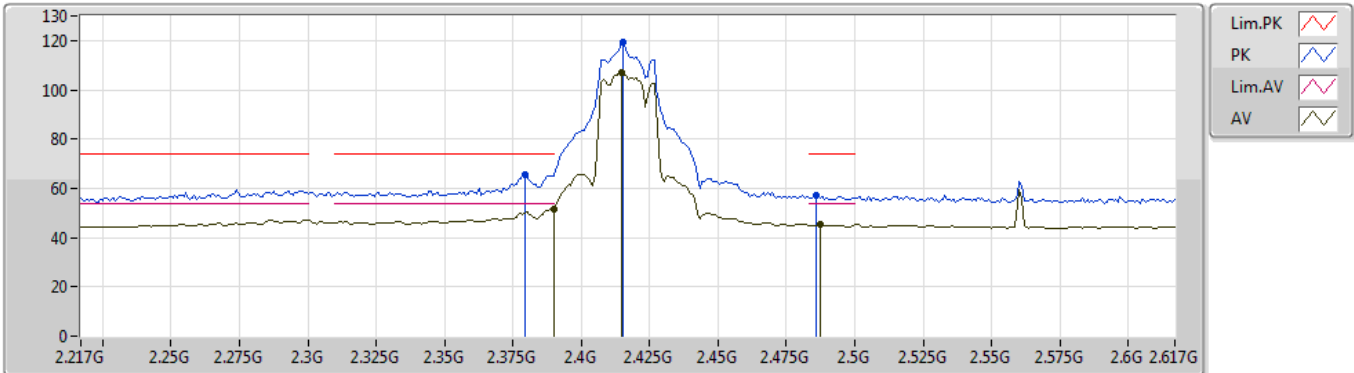
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.82826G     | 53.59             | 74.00             | -20.41         | 3.52           | 3           | Horizontal | 340            | 1.82          | -       | 50.07         |  |  |  |
| AV   | 4.82796G     | 42.99             | 54.00             | -11.01         | 3.52           | 3           | Horizontal | 340            | 1.82          | -       | 39.47         |  |  |  |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2417MHz\_TX



EUT Y\_4TX  
04-F-W-3

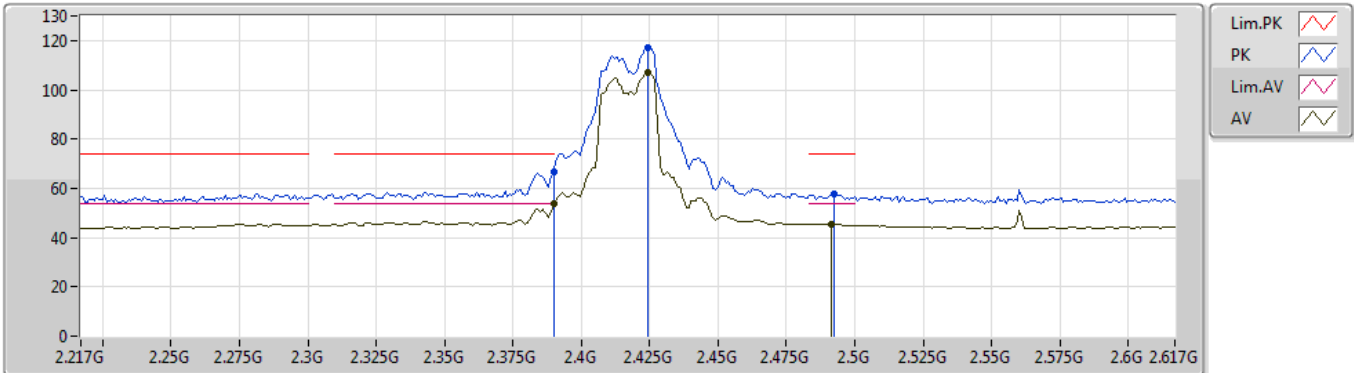
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3794G      | 65.79             | 74.00             | -8.21          | 30.22          | 3           | Vertical  | 353            | 1.07          | -       | 35.57         |
| AV   | 2.3898G      | 51.82             | 54.00             | -2.18          | 30.21          | 3           | Vertical  | 353            | 1.07          | -       | 21.61         |
| PK   | 2.4154G      | 119.33            | Inf               | -Inf           | 30.26          | 3           | Vertical  | 353            | 1.07          | -       | 89.07         |
| AV   | 2.4146G      | 107.01            | Inf               | -Inf           | 30.26          | 3           | Vertical  | 353            | 1.07          | -       | 76.75         |
| PK   | 2.4858G      | 56.91             | 74.00             | -17.09         | 30.54          | 3           | Vertical  | 353            | 1.07          | -       | 26.37         |
| AV   | 2.4874G      | 45.42             | 54.00             | -8.58          | 30.55          | 3           | Vertical  | 353            | 1.07          | -       | 14.87         |



## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2417MHz\_TX



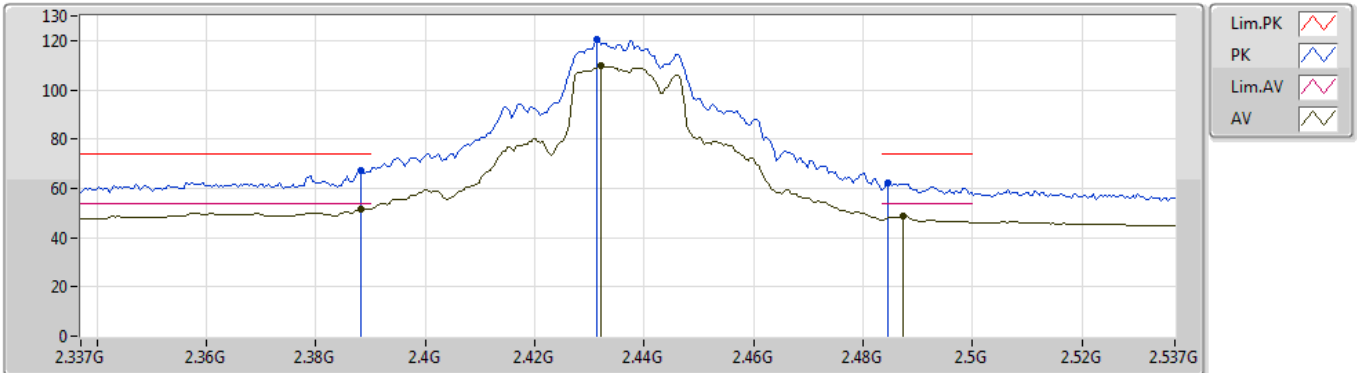
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3898G      | 66.93             | 74.00             | -7.07          | 30.21          | 3           | Horizontal | 185            | 1.55          | -       | 36.72         |
| AV   | 2.3898G      | 53.67             | 54.00             | -0.33          | 30.21          | 3           | Horizontal | 185            | 1.55          | -       | 23.46         |
| PK   | 2.4242G      | 117.34            | Inf               | -Inf           | 30.30          | 3           | Horizontal | 185            | 1.55          | -       | 87.04         |
| AV   | 2.4242G      | 107.28            | Inf               | -Inf           | 30.30          | 3           | Horizontal | 185            | 1.55          | -       | 76.98         |
| PK   | 2.4922G      | 57.52             | 74.00             | -16.48         | 30.57          | 3           | Horizontal | 185            | 1.55          | -       | 26.95         |
| AV   | 2.4914G      | 45.63             | 54.00             | -8.37          | 30.57          | 3           | Horizontal | 185            | 1.55          | -       | 15.06         |

# 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

## 2437MHz\_TX



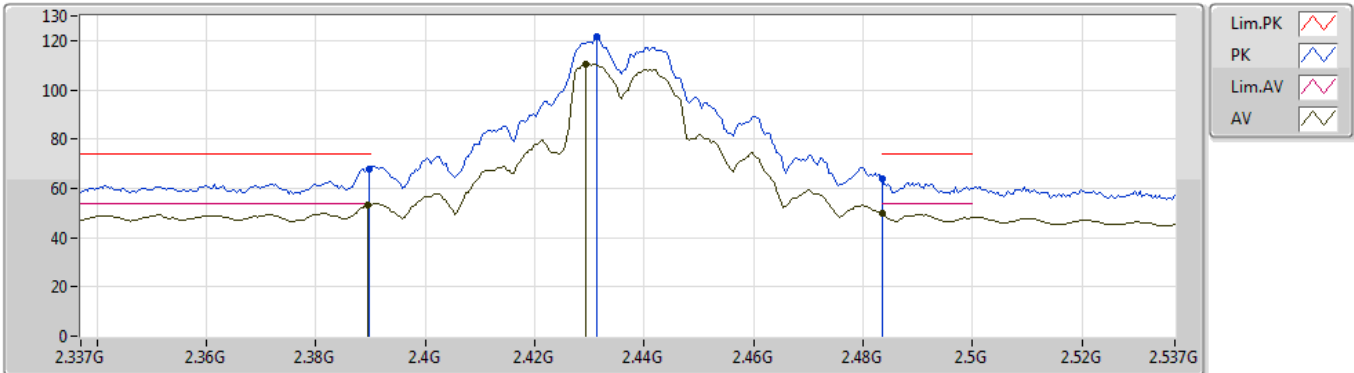
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3882G      | 67.25             | 74.00             | -6.75          | 30.21          | 3           | Vertical  | 2              | 1.29          | -       | 37.04         |
| AV   | 2.3882G      | 51.61             | 54.00             | -2.39          | 30.21          | 3           | Vertical  | 2              | 1.29          | -       | 21.40         |
| PK   | 2.4314G      | 120.41            | Inf               | -Inf           | 30.33          | 3           | Vertical  | 2              | 1.29          | -       | 90.08         |
| AV   | 2.4322G      | 109.85            | Inf               | -Inf           | 30.33          | 3           | Vertical  | 2              | 1.29          | -       | 79.52         |
| PK   | 2.4846G      | 62.39             | 74.00             | -11.61         | 30.54          | 3           | Vertical  | 2              | 1.29          | -       | 31.85         |
| AV   | 2.4874G      | 48.60             | 54.00             | -5.40          | 30.55          | 3           | Vertical  | 2              | 1.29          | -       | 18.05         |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2437MHz\_TX



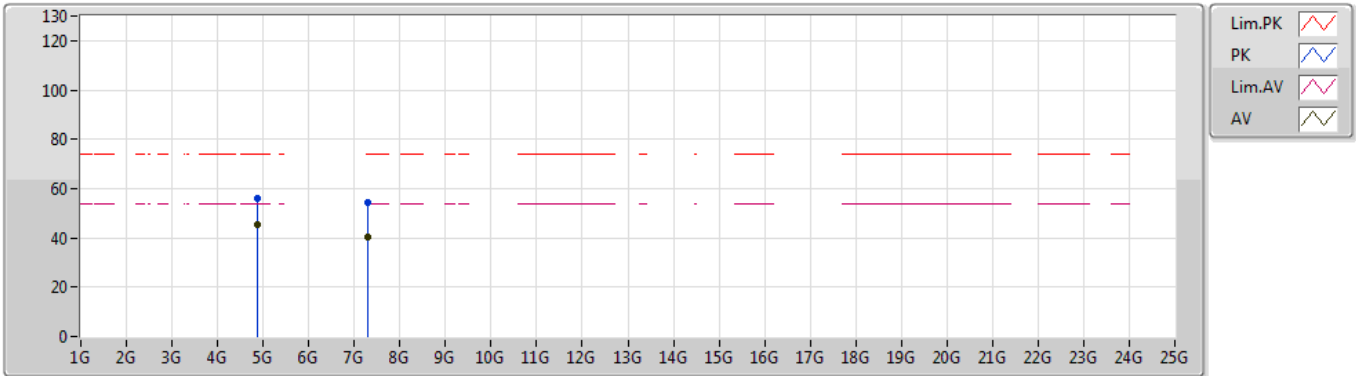
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3898G      | 68.04             | 74.00             | -5.96          | 30.21          | 3           | Horizontal | 0              | 1.84          | -       | 37.83         |
| AV   | 2.3894G      | 53.12             | 54.00             | -0.88          | 30.21          | 3           | Horizontal | 0              | 1.84          | -       | 22.91         |
| PK   | 2.4314G      | 121.54            | Inf               | -Inf           | 30.33          | 3           | Horizontal | 0              | 1.84          | -       | 91.21         |
| AV   | 2.4294G      | 110.54            | Inf               | -Inf           | 30.32          | 3           | Horizontal | 0              | 1.84          | -       | 80.22         |
| PK   | 2.4835G      | 64.14             | 74.00             | -9.86          | 30.53          | 3           | Horizontal | 0              | 1.84          | -       | 33.61         |
| AV   | 2.4835G      | 49.65             | 54.00             | -4.35          | 30.53          | 3           | Horizontal | 0              | 1.84          | -       | 19.12         |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2437MHz\_TX



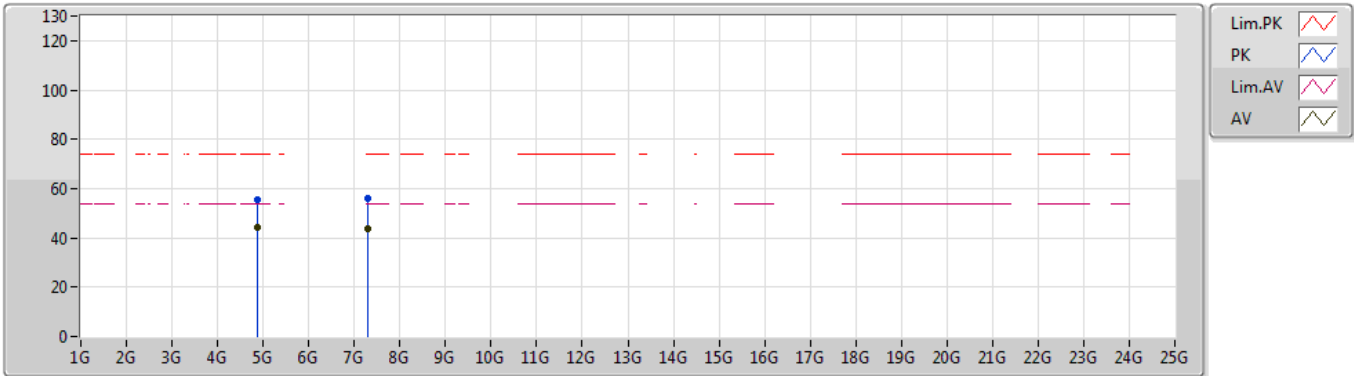
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.87504G     | 56.28             | 74.00             | -17.72         | 3.80           | 3           | Vertical  | 93             | 1.64          | -       | 52.48         |  |  |  |
| AV   | 4.87376G     | 45.33             | 54.00             | -8.67          | 3.80           | 3           | Vertical  | 93             | 1.64          | -       | 41.53         |  |  |  |
| PK   | 7.30628G     | 54.44             | 74.00             | -19.56         | 9.04           | 3           | Vertical  | 277            | 2.96          | -       | 45.40         |  |  |  |
| AV   | 7.3066G      | 40.55             | 54.00             | -13.45         | 9.04           | 3           | Vertical  | 277            | 2.96          | -       | 31.51         |  |  |  |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2437MHz\_TX



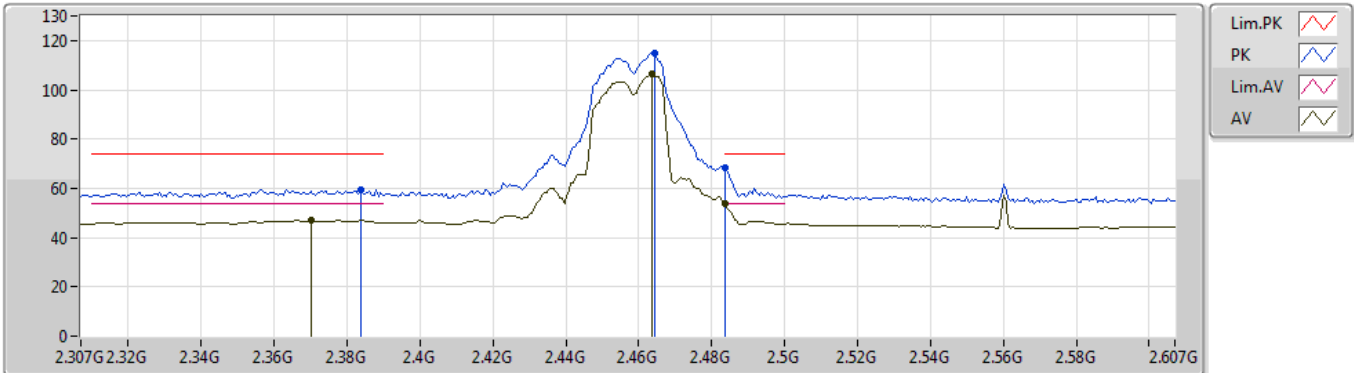
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.87512G     | 55.66             | 74.00             | -18.34         | 3.80           | 3           | Horizontal | 68             | 1.76          | -       | 51.86         |  |  |  |
| AV   | 4.87512G     | 44.18             | 54.00             | -9.82          | 3.80           | 3           | Horizontal | 68             | 1.76          | -       | 40.38         |  |  |  |
| PK   | 7.30924G     | 55.85             | 74.00             | -18.15         | 9.05           | 3           | Horizontal | 165            | 1.44          | -       | 46.80         |  |  |  |
| AV   | 7.31012G     | 43.81             | 54.00             | -10.19         | 9.05           | 3           | Horizontal | 165            | 1.44          | -       | 34.76         |  |  |  |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2457MHz\_TX



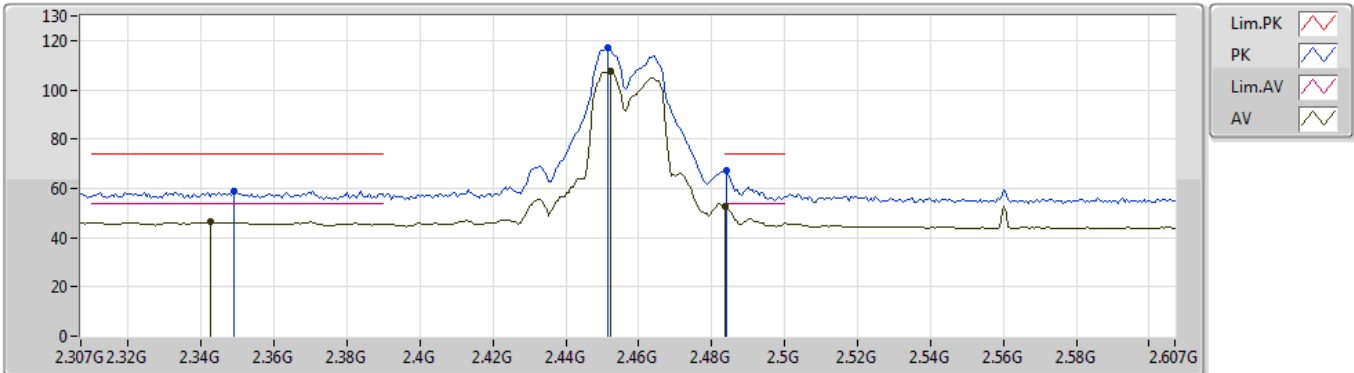
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3838G      | 59.66             | 74.00             | -14.34         | 30.22          | 3           | Vertical  | 313            | 2.65          | -       | 29.44         |
| AV   | 2.37G        | 47.00             | 54.00             | -7.00          | 30.23          | 3           | Vertical  | 313            | 2.65          | -       | 16.77         |
| PK   | 2.4642G      | 115.14            | Inf               | -Inf           | 30.46          | 3           | Vertical  | 313            | 2.65          | -       | 84.68         |
| AV   | 2.4636G      | 106.19            | Inf               | -Inf           | 30.45          | 3           | Vertical  | 313            | 2.65          | -       | 75.74         |
| PK   | 2.4835G      | 68.27             | 74.00             | -5.73          | 30.53          | 3           | Vertical  | 313            | 2.65          | -       | 37.74         |
| AV   | 2.4835G      | 53.97             | 54.00             | -0.03          | 30.53          | 3           | Vertical  | 313            | 2.65          | -       | 23.44         |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2457MHz\_TX



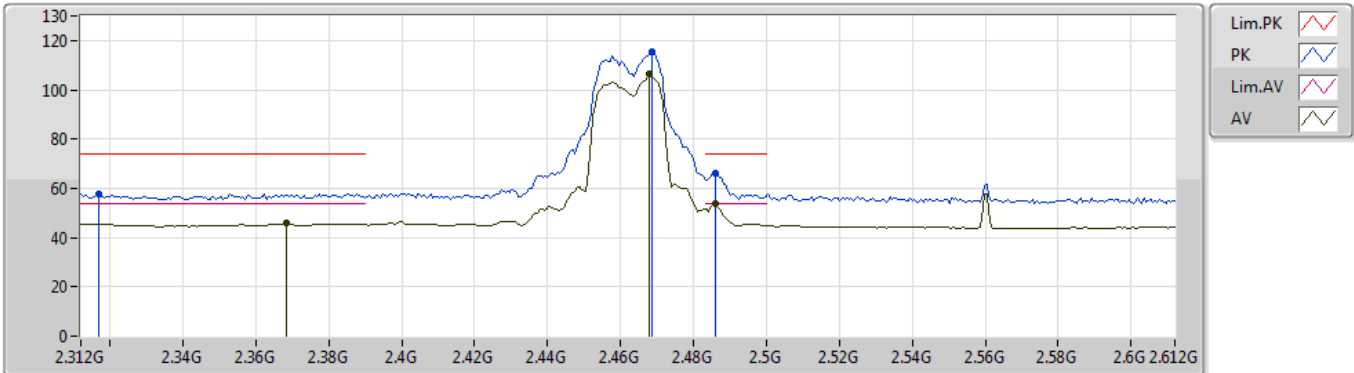
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.349G       | 58.84             | 74.00             | -15.16         | 30.25          | 3           | Horizontal | 159            | 1.02          | -       | 28.59         |
| AV   | 2.3424G      | 46.27             | 54.00             | -7.73          | 30.26          | 3           | Horizontal | 159            | 1.02          | -       | 16.01         |
| PK   | 2.4516G      | 117.25            | Inf               | -Inf           | 30.41          | 3           | Horizontal | 159            | 1.02          | -       | 86.84         |
| AV   | 2.4522G      | 107.65            | Inf               | -Inf           | 30.41          | 3           | Horizontal | 159            | 1.02          | -       | 77.24         |
| PK   | 2.484G       | 67.14             | 74.00             | -6.86          | 30.54          | 3           | Horizontal | 159            | 1.02          | -       | 36.60         |
| AV   | 2.4835G      | 52.84             | 54.00             | -1.16          | 30.53          | 3           | Horizontal | 159            | 1.02          | -       | 22.31         |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2462MHz\_TX



EUT\_Y\_4TX  
04-F-W-3

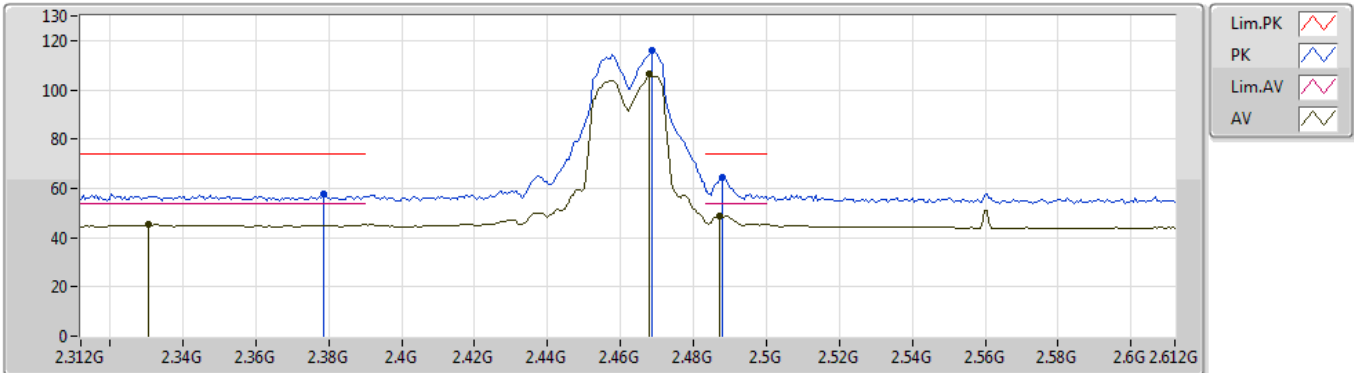
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3168G      | 57.99             | 74.00             | -16.01         | 30.28          | 3           | Vertical  | 332            | 2.77          | -       | 27.71         |
| AV   | 2.3684G      | 45.77             | 54.00             | -8.23          | 30.23          | 3           | Vertical  | 332            | 2.77          | -       | 15.54         |
| PK   | 2.4686G      | 115.52            | Inf               | -Inf           | 30.47          | 3           | Vertical  | 332            | 2.77          | -       | 85.05         |
| AV   | 2.468G       | 106.37            | Inf               | -Inf           | 30.47          | 3           | Vertical  | 332            | 2.77          | -       | 75.90         |
| PK   | 2.486G       | 66.10             | 74.00             | -7.90          | 30.54          | 3           | Vertical  | 332            | 2.77          | -       | 35.56         |
| AV   | 2.486G       | 53.74             | 54.00             | -0.26          | 30.54          | 3           | Vertical  | 332            | 2.77          | -       | 23.20         |



## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2462MHz\_TX



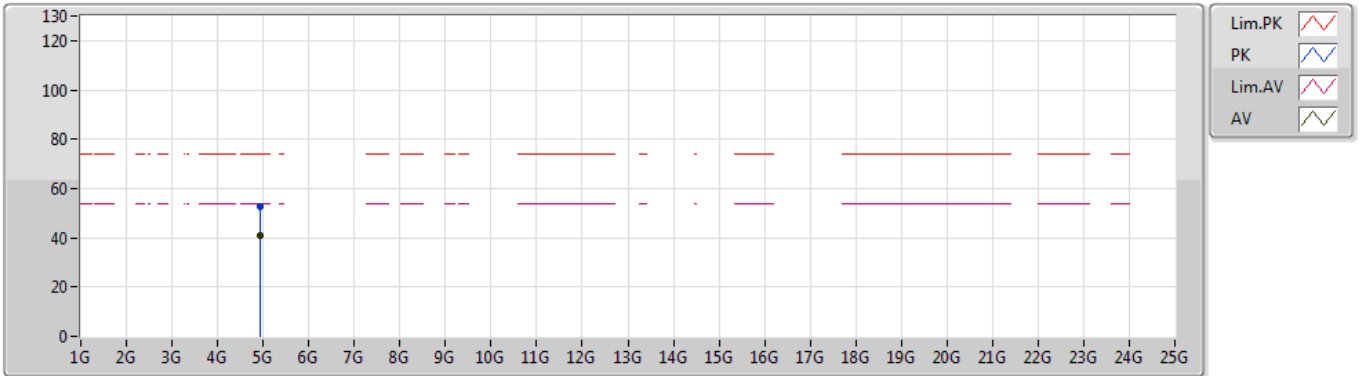
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3786G      | 57.93             | 74.00             | -16.07         | 30.22          | 3           | Horizontal | 172            | 1.52          | -       | 27.71         |
| AV   | 2.3306G      | 45.18             | 54.00             | -8.82          | 30.27          | 3           | Horizontal | 172            | 1.52          | -       | 14.91         |
| PK   | 2.4686G      | 116.22            | Inf               | -Inf           | 30.47          | 3           | Horizontal | 172            | 1.52          | -       | 85.75         |
| AV   | 2.468G       | 106.41            | Inf               | -Inf           | 30.47          | 3           | Horizontal | 172            | 1.52          | -       | 75.94         |
| PK   | 2.4878G      | 64.22             | 74.00             | -9.78          | 30.55          | 3           | Horizontal | 172            | 1.52          | -       | 33.67         |
| AV   | 2.4872G      | 48.99             | 54.00             | -5.01          | 30.55          | 3           | Horizontal | 172            | 1.52          | -       | 18.44         |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2462MHz\_TX



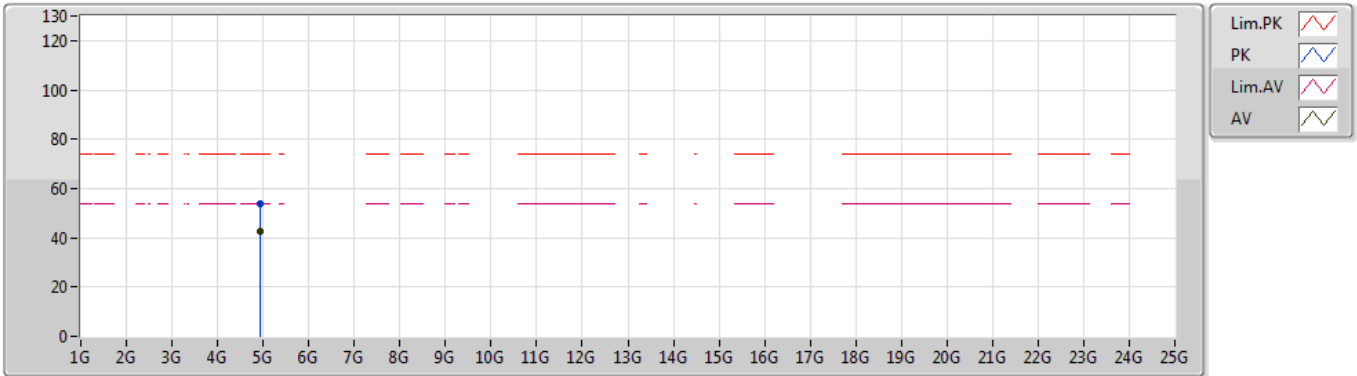
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.9284G      | 52.54             | 74.00             | -21.46         | 4.06           | 3           | Vertical  | 96             | 1.50          | -       | 48.48         |  |  |  |
| AV   | 4.9284G      | 40.87             | 54.00             | -13.13         | 4.06           | 3           | Vertical  | 96             | 1.50          | -       | 36.81         |  |  |  |

## 802.11ax HEW20\_Nss1,(MCS0)\_4TX

02/03/2020

### 2462MHz\_TX



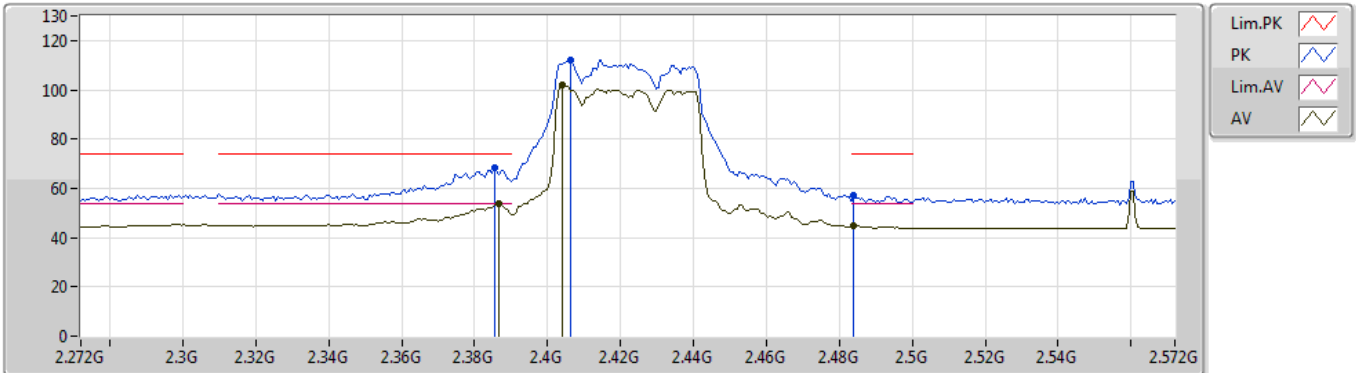
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.92576G     | 53.61             | 74.00             | -20.39         | 4.05           | 3           | Horizontal | 329            | 1.89          | -       | 49.56         |  |  |  |
| AV   | 4.92728G     | 42.68             | 54.00             | -11.32         | 4.05           | 3           | Horizontal | 329            | 1.89          | -       | 38.63         |  |  |  |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2422MHz\_TX



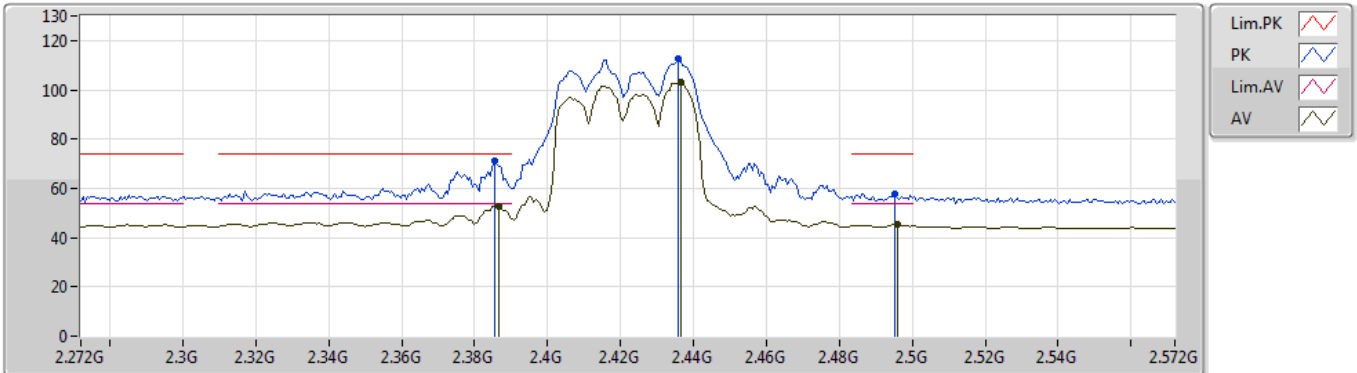
EUT\_Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.3854G      | 68.24             | 74.00             | -5.76          | 30.21          | 3           | Vertical  | 334            | 1.63          | -       | 38.03         |
| AV   | 2.3866G      | 53.94             | 54.00             | -0.06          | 30.21          | 3           | Vertical  | 334            | 1.63          | -       | 23.73         |
| PK   | 2.4064G      | 112.05            | Inf               | -Inf           | 30.23          | 3           | Vertical  | 334            | 1.63          | -       | 81.82         |
| AV   | 2.404G       | 101.77            | Inf               | -Inf           | 30.22          | 3           | Vertical  | 334            | 1.63          | -       | 71.55         |
| PK   | 2.4838G      | 56.99             | 74.00             | -17.01         | 30.54          | 3           | Vertical  | 334            | 1.63          | -       | 26.45         |
| AV   | 2.4838G      | 44.72             | 54.00             | -9.28          | 30.54          | 3           | Vertical  | 334            | 1.63          | -       | 14.18         |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2422MHz\_TX



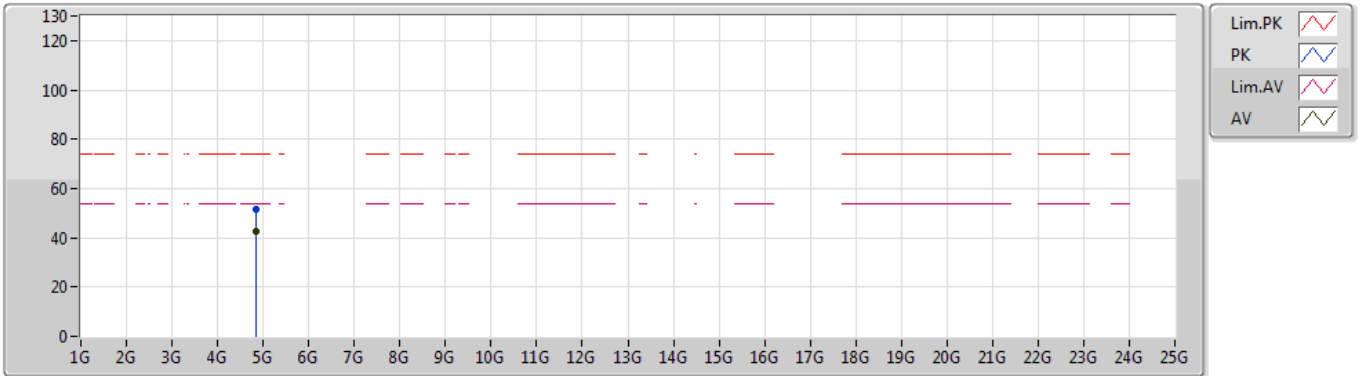
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3854G      | 71.24             | 74.00             | -2.76          | 30.21          | 3           | Horizontal | 155            | 2.81          | -       | 41.03         |
| AV   | 2.3866G      | 52.81             | 54.00             | -1.19          | 30.21          | 3           | Horizontal | 155            | 2.81          | -       | 22.60         |
| PK   | 2.4358G      | 112.40            | Inf               | -Inf           | 30.34          | 3           | Horizontal | 155            | 2.81          | -       | 82.06         |
| AV   | 2.4364G      | 102.88            | Inf               | -Inf           | 30.35          | 3           | Horizontal | 155            | 2.81          | -       | 72.53         |
| PK   | 2.4952G      | 57.97             | 74.00             | -16.03         | 30.58          | 3           | Horizontal | 155            | 2.81          | -       | 27.39         |
| AV   | 2.4958G      | 45.22             | 54.00             | -8.78          | 30.58          | 3           | Horizontal | 155            | 2.81          | -       | 14.64         |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2422MHz\_TX



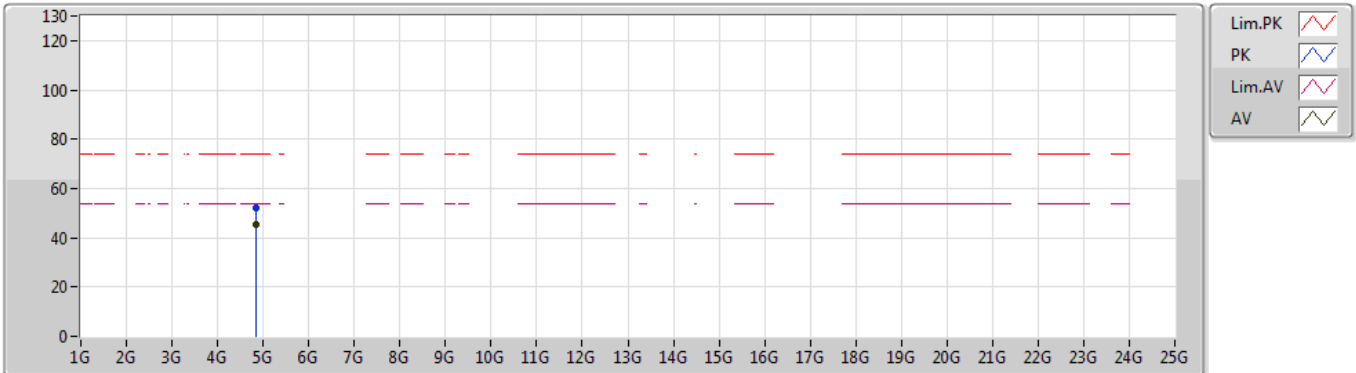
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.84304G     | 51.81             | 74.00             | -22.19         | 3.61           | 3           | Vertical  | 82             | 1.27          | -       | 48.20         |  |  |  |
| AV   | 4.84364G     | 42.50             | 54.00             | -11.50         | 3.62           | 3           | Vertical  | 82             | 1.27          | -       | 38.88         |  |  |  |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2422MHz\_TX



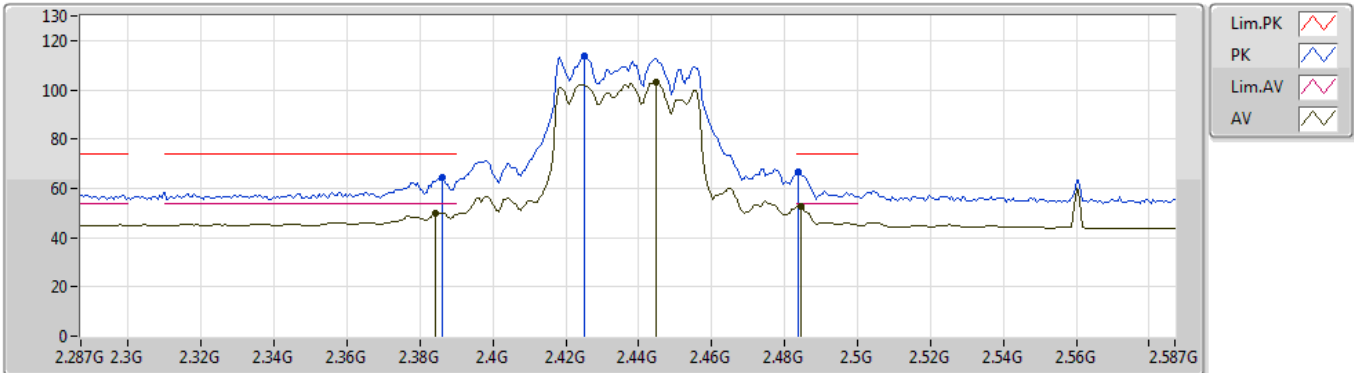
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.84376G     | 52.29             | 74.00             | -21.71         | 3.63           | 3           | Horizontal | 78             | 1.72          | -       | 48.66         |  |  |  |
| AV   | 4.84376G     | 45.20             | 54.00             | -8.80          | 3.63           | 3           | Horizontal | 78             | 1.72          | -       | 41.57         |  |  |  |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2437MHz\_TX



EUT Y\_4TX  
04-F-W-3

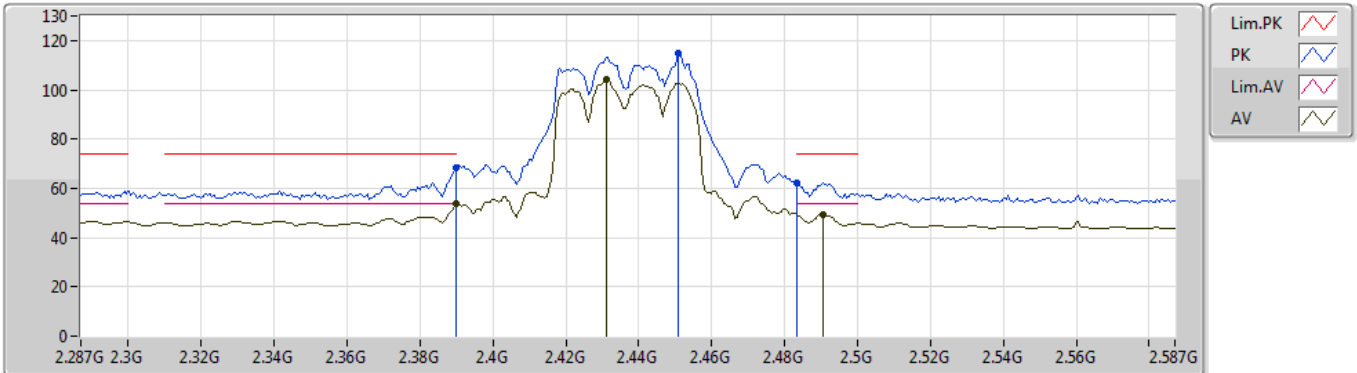
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.386G       | 64.67             | 74.00             | -9.33          | 30.21          | 3           | Vertical  | 300            | 2.55          | -       | 34.46         |
| AV   | 2.3842G      | 50.14             | 54.00             | -3.86          | 30.22          | 3           | Vertical  | 300            | 2.55          | -       | 19.92         |
| PK   | 2.425G       | 113.76            | Inf               | -Inf           | 30.30          | 3           | Vertical  | 300            | 2.55          | -       | 83.46         |
| AV   | 2.4448G      | 103.20            | Inf               | -Inf           | 30.38          | 3           | Vertical  | 300            | 2.55          | -       | 72.82         |
| PK   | 2.4838G      | 66.48             | 74.00             | -7.52          | 30.54          | 3           | Vertical  | 300            | 2.55          | -       | 35.94         |
| AV   | 2.4844G      | 52.70             | 54.00             | -1.30          | 30.54          | 3           | Vertical  | 300            | 2.55          | -       | 22.16         |



## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2437MHz\_TX



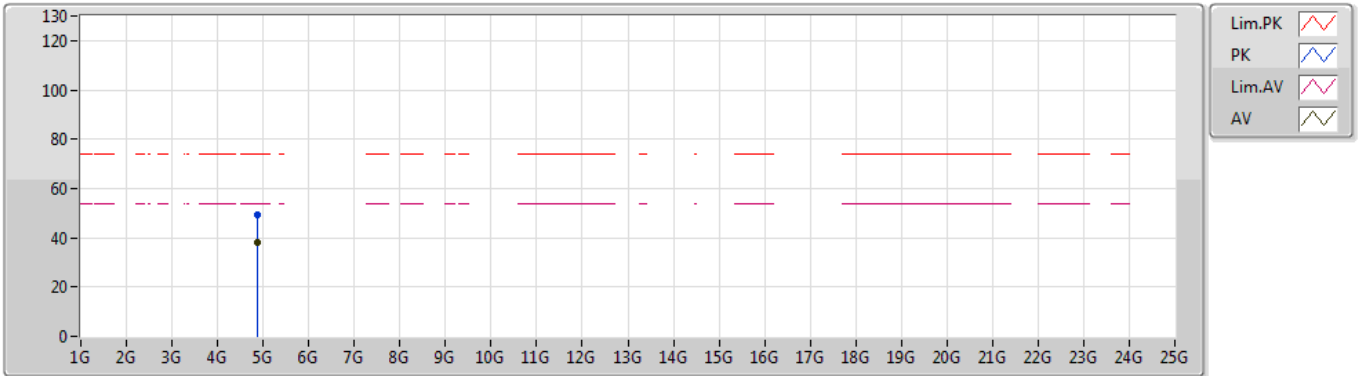
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.39G        | 68.20             | 74.00             | -5.80          | 30.21          | 3           | Horizontal | 149            | 1.73          | -       | 37.99         |
| AV   | 2.39G        | 53.75             | 54.00             | -0.25          | 30.21          | 3           | Horizontal | 149            | 1.73          | -       | 23.54         |
| PK   | 2.4508G      | 114.86            | Inf               | -Inf           | 30.40          | 3           | Horizontal | 149            | 1.73          | -       | 84.46         |
| AV   | 2.431G       | 104.07            | Inf               | -Inf           | 30.32          | 3           | Horizontal | 149            | 1.73          | -       | 73.75         |
| PK   | 2.4835G      | 62.46             | 74.00             | -11.54         | 30.53          | 3           | Horizontal | 149            | 1.73          | -       | 31.93         |
| AV   | 2.4904G      | 49.41             | 54.00             | -4.59          | 30.56          | 3           | Horizontal | 149            | 1.73          | -       | 18.85         |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2437MHz\_TX



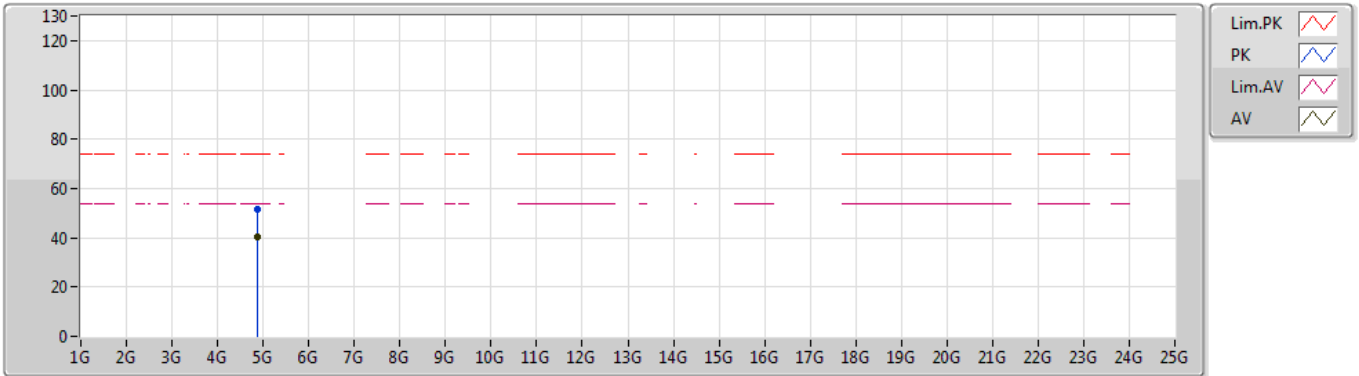
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.8722G      | 49.29             | 74.00             | -24.71         | 3.79           | 3           | Vertical  | 47             | 1.21          | -       | 45.50         |  |  |  |
| AV   | 4.8727G      | 38.12             | 54.00             | -15.88         | 3.79           | 3           | Vertical  | 47             | 1.21          | -       | 34.33         |  |  |  |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2437MHz\_TX



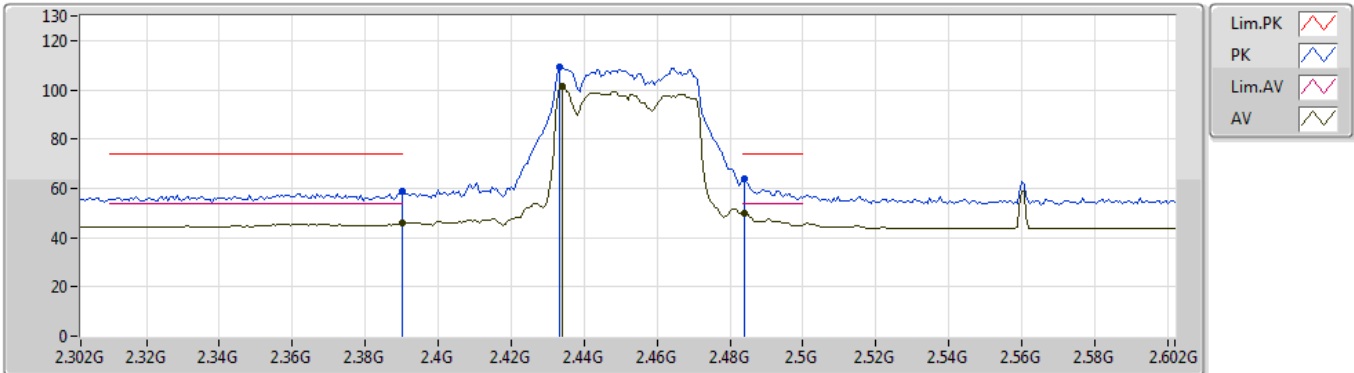
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.8775G      | 51.39             | 74.00             | -22.61         | 3.82           | 3           | Horizontal | 336            | 2.04          | -       | 47.57         |  |  |  |
| AV   | 4.8768G      | 40.34             | 54.00             | -13.66         | 3.82           | 3           | Horizontal | 336            | 2.04          | -       | 36.52         |  |  |  |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2452MHz\_TX



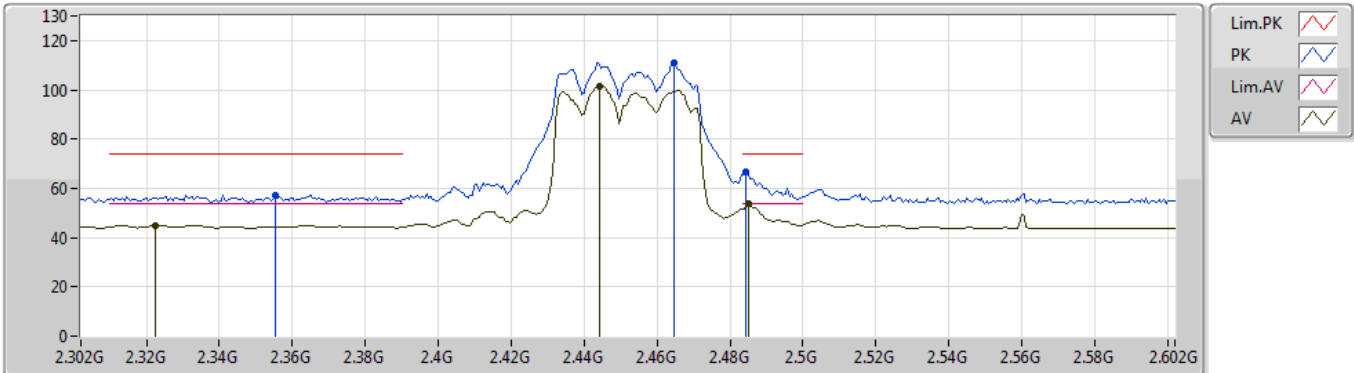
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|
| PK   | 2.39G        | 58.99             | 74.00             | -15.01         | 30.21          | 3           | Vertical  | 8              | 1.26          | -       | 28.78         |
| AV   | 2.39G        | 46.02             | 54.00             | -7.98          | 30.21          | 3           | Vertical  | 8              | 1.26          | -       | 15.81         |
| PK   | 2.4334G      | 109.19            | Inf               | -Inf           | 30.33          | 3           | Vertical  | 8              | 1.26          | -       | 78.86         |
| AV   | 2.434G       | 101.19            | Inf               | -Inf           | 30.34          | 3           | Vertical  | 8              | 1.26          | -       | 70.85         |
| PK   | 2.4838G      | 64.00             | 74.00             | -10.00         | 30.54          | 3           | Vertical  | 8              | 1.26          | -       | 33.46         |
| AV   | 2.4838G      | 49.63             | 54.00             | -4.37          | 30.54          | 3           | Vertical  | 8              | 1.26          | -       | 19.09         |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2452MHz\_TX



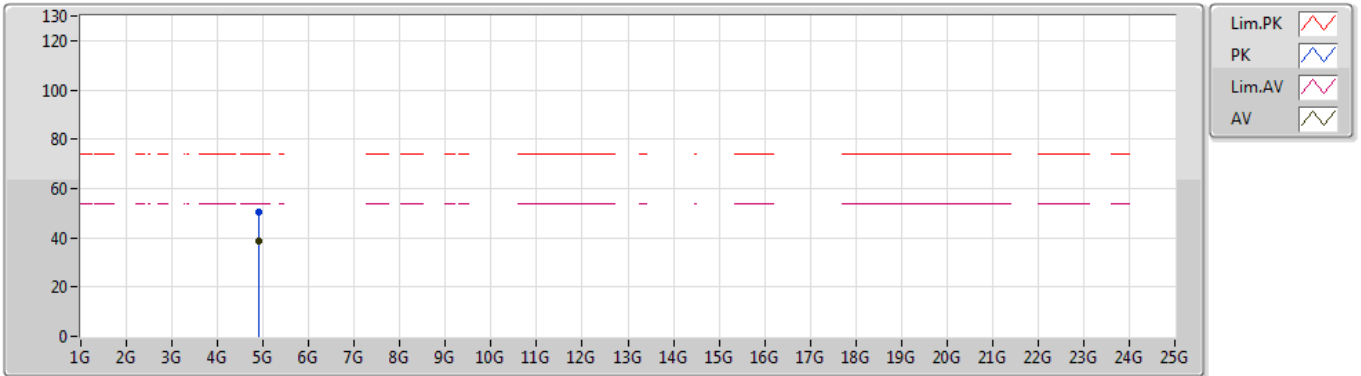
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|
| PK   | 2.3554G      | 57.28             | 74.00             | -16.72         | 30.24          | 3           | Horizontal | 135            | 1.50          | -       | 27.04         |
| AV   | 2.3224G      | 44.94             | 54.00             | -9.06          | 30.28          | 3           | Horizontal | 135            | 1.50          | -       | 14.66         |
| PK   | 2.4646G      | 110.72            | Inf               | -Inf           | 30.46          | 3           | Horizontal | 135            | 1.50          | -       | 80.26         |
| AV   | 2.4442G      | 101.34            | Inf               | -Inf           | 30.38          | 3           | Horizontal | 135            | 1.50          | -       | 70.96         |
| PK   | 2.4844G      | 66.45             | 74.00             | -7.55          | 30.54          | 3           | Horizontal | 135            | 1.50          | -       | 35.91         |
| AV   | 2.485G       | 53.54             | 54.00             | -0.46          | 30.54          | 3           | Horizontal | 135            | 1.50          | -       | 23.00         |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2452MHz\_TX



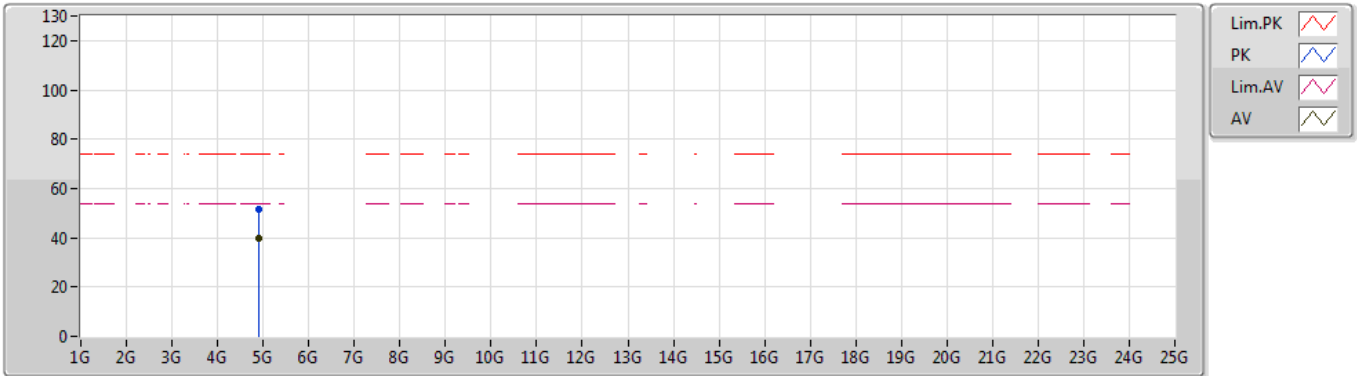
EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.9089G      | 50.51             | 74.00             | -23.49         | 3.98           | 3           | Vertical  | 94             | 1.71          | -       | 46.53         |  |  |  |
| AV   | 4.903G       | 38.68             | 54.00             | -15.32         | 3.96           | 3           | Vertical  | 94             | 1.71          | -       | 34.72         |  |  |  |

## 802.11ax HEW40\_Nss1,(MCS0)\_4TX

02/03/2020

### 2452MHz\_TX



EUT Y\_4TX  
04-F-W-3

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|--|--|--|
| PK   | 4.9081G      | 51.62             | 74.00             | -22.38         | 3.98           | 3           | Horizontal | 330            | 1.96          | -       | 47.64         |  |  |  |
| AV   | 4.9061G      | 39.68             | 54.00             | -14.32         | 3.97           | 3           | Horizontal | 330            | 1.96          | -       | 35.71         |  |  |  |

