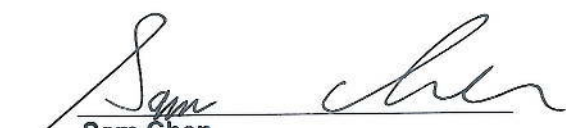


# NCC Test Report

**Equipment** : 無線接入點  
**Brand Name** : Extreme Networks  
**Model No.** : AP-7532I  
**Standard** : LP0002 Section 3.10.1 (2016-08-23)  
**Operating Band** : 2400 MHz – 2483.5 MHz  
**Function** : ☒ Point-to-multipoint; ☐ Point-to-point  
**Applicant** : 香港商極進網路有限公司台灣分公司  
台北市松山區復勢里南京東路 4 段 126 號 5 樓  
**Manufacturer** : 啟碁科技股份有限公司  
新竹科學工業園區新竹縣園區二路 20 號

The product sample received on Apr. 15, 2014 and completely tested on Oct. 26, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

  
Sam Chen  
SPORTON INTERNATIONAL INC.

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## Summary of Test Result

| Conformance Test Specifications |                  |                                             |                                   |          |
|---------------------------------|------------------|---------------------------------------------|-----------------------------------|----------|
| Report Clause                   | Ref. Std. Clause | Description                                 | Limit                             | Result   |
| 1.1.2                           | 3.10.1.4         | Antenna Requirement                         | LP0002-2.2                        | Complied |
| 3.1                             | 2.3              | AC Power-line Conducted Emissions           | LP0002-2.3                        | Complied |
| 3.2                             | 3.10.1.6         | DTS Bandwidth                               | ≥500kHz                           | Complied |
| 3.3                             | 3.10.1.2         | Maximum Conducted Output Power              | Power [dBm]:30                    | Complied |
| 3.4                             | 3.10.1.6         | Power Spectral Density                      | PSD [dBm/3kHz]:8                  | Complied |
| 3.5                             | 3.10.1.5         | Emissions in Non-restricted Frequency Bands | Non-Restricted Bands:<br>> 30 dBc | Complied |
| 3.6                             | 3.10.1.5         | Emissions in Restricted Frequency Bands     | Restricted Bands:<br>LP0002-2.8   | Complied |



SPORTON INTERNATIONAL INC.  
TEL : 886-3-3273456  
FAX : 886-3-3270973

# 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), ac (VHT20) | 2412-2462           | 1-11 [11]      |
| 2400-2483.5           | n (HT40), ac (VHT40)       | 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         | 1TX  |
| 2.4-2.4835GHz | 802.11n HT20      | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11ac VHT20    | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11n HT40      | 40         | 1TX  |
| 2.4-2.4835GHz | 802.11ac VHT40    | 40         | 1TX  |
| 2.4-2.4835GHz | 802.11b           | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11g           | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11g-BF        | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11n HT20      | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11n HT20-BF   | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11ac VHT20    | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11ac VHT20-BF | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11n HT40      | 40         | 2TX  |
| 2.4-2.4835GHz | 802.11n HT40-BF   | 40         | 2TX  |
| 2.4-2.4835GHz | 802.11ac VHT40    | 40         | 2TX  |
| 2.4-2.4835GHz | 802.11ac VHT40-BF | 40         | 2TX  |
| 2.4-2.4835GHz | 802.11b           | 20         | 3TX  |
| 2.4-2.4835GHz | 802.11g           | 20         | 3TX  |
| 2.4-2.4835GHz | 802.11g-BF        | 20         | 3TX  |
| 2.4-2.4835GHz | 802.11n HT20      | 20         | 3TX  |
| 2.4-2.4835GHz | 802.11n HT20-BF   | 20         | 3TX  |
| 2.4-2.4835GHz | 802.11ac VHT20    | 20         | 3TX  |
| 2.4-2.4835GHz | 802.11ac VHT20-BF | 20         | 3TX  |
| 2.4-2.4835GHz | 802.11n HT40      | 40         | 3TX  |
| 2.4-2.4835GHz | 802.11n HT40-BF   | 40         | 3TX  |
| 2.4-2.4835GHz | 802.11ac VHT40    | 40         | 3TX  |
| 2.4-2.4835GHz | 802.11ac VHT40-BF | 40         | 3TX  |

**Note:**

- ♦ 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ 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. | Brand    | Model Number  | Antenna Type | Connector | Antenna Gain (dBi) |      | Cable Loss (dBi) |    | True Gain (dBi) |      |
|------|----------|---------------|--------------|-----------|--------------------|------|------------------|----|-----------------|------|
|      |          |               |              |           | 2.4G               | 5G   | 2.4G             | 5G | 2.4G            | 5G   |
| 1    | MOTOROLA | BIRCH INT ANT | PIFA Antenna | U.FL      | 4.13               | 5.92 | -                | -  | 4.13            | 5.92 |
| 2    | MOTOROLA | BIRCH INT ANT | PIFA Antenna | U.FL      | 4.13               | 5.92 | -                | -  | 4.13            | 5.92 |
| 3    | MOTOROLA | BIRCH INT ANT | PIFA Antenna | U.FL      | 4.13               | 5.92 | -                | -  | 4.13            | 5.92 |
| 4    | MOTOROLA | BIRCH INT ANT | PIFA Antenna | U.FL      | 4.13               | 5.92 | -                | -  | 4.13            | 5.92 |
| 5    | MOTOROLA | BIRCH INT ANT | PIFA Antenna | U.FL      | 4.13               | 5.92 | -                | -  | 4.13            | 5.92 |
| 6    | MOTOROLA | BIRCH INT ANT | PIFA Antenna | U.FL      | 4.13               | 5.92 | -                | -  | 4.13            | 5.92 |

Note: The EUT has six antennas of the same type.

### For 2.4GHz Band:

The EUT can support 1TX/1RX, 2TX/2RX and 3TX/3RX functions.

#### For 1TX/1RX function:

Both Chain 4 (Port 1) and Chain 5 (Port 2) support transmit and receive functions, but only one of them will be used at one time.

After evaluating, Chain 4 (Port 1) has been evaluated to be the worst case, so it's selected to record in this test report.

#### For 2TX/2RX function:

Chain 4 (Port 1) and Chain 5 (Port 2) could transmit/receive simultaneously.

#### For 3TX/3RX function:

Chain 4 (Port 1), Chain 5 (Port 2) and Chain 6 (Port 3) could transmit/receive simultaneously.

### For 5GHz Band:

The EUT can support 1TX/1RX, 2TX/2RX and 3TX/3RX functions.

#### For 1TX/1RX function:

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

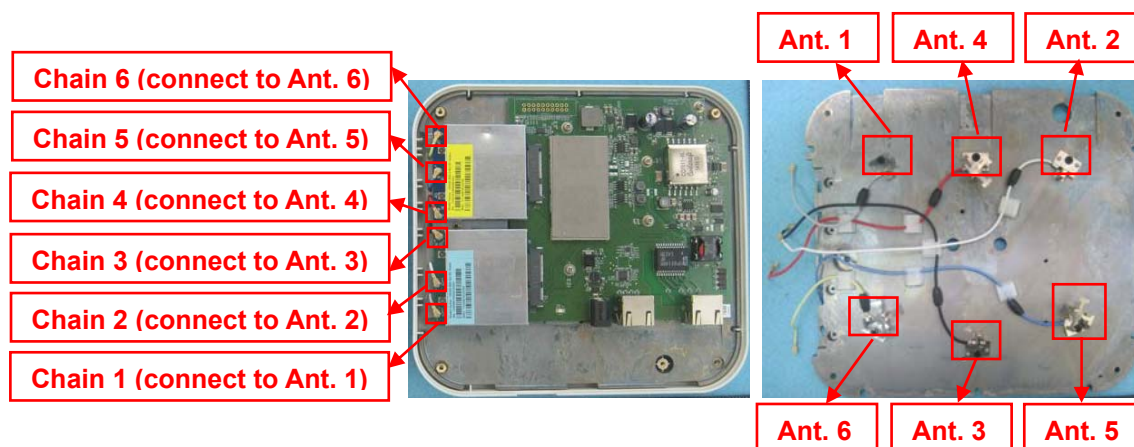
After evaluating, Chain 2 (Port 2) has been evaluated to be the worst case, so it's selected to record in this test report.

#### For 2TX/2RX function:

Chain 1 (Port 1) and Chain 2 (Port 2) could transmit/receive simultaneously.

#### For 3TX/3RX function:

Chain 1 (Port 1), Chain 2 (Port 2) and Chain 3 (Port 3) could transmit/receive simultaneously.



### 1.1.3 Mode Test Duty Cycle

For 1TX:

| Mode           | DC    | DCF(dB) | T(s)                 | VBW(Hz) $\geq 1/T$   |
|----------------|-------|---------|----------------------|----------------------|
| 802.11b        | 0.998 | 0.009   | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| 802.11ac VHT20 | 0.986 | 0.061   | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| 802.11ac VHT40 | 0.953 | 0.209   | 947.5u               | 3k                   |

For 2TX:

| Mode              | DC    | DCF(dB) | T(s)                 | VBW(Hz) $\geq 1/T$   |
|-------------------|-------|---------|----------------------|----------------------|
| 802.11b           | 0.998 | 0.009   | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| 802.11ac VHT20-BF | 0.909 | 0.414   | 3.838m               | 300                  |
| 802.11ac VHT40-BF | 0.839 | 0.762   | 3.695m               | 300                  |

For 3TX:

| Mode              | DC    | DCF(dB) | T(s)    | VBW(Hz) $\geq 1/T$ |
|-------------------|-------|---------|---------|--------------------|
| 802.11b           | 0.954 | 0.205   | 12.424m | 100                |
| 802.11ac VHT20-BF | 0.973 | 0.119   | 1.929m  | 1k                 |
| 802.11ac VHT40-BF | 0.859 | 0.66    | 1.92m   | 1k                 |

### 1.1.4 EUT Operational Condition

|                             |                                                                          |                  |                          |                     |
|-----------------------------|--------------------------------------------------------------------------|------------------|--------------------------|---------------------|
| <b>EUT Power Type</b>       | From power adapter or PoE                                                |                  |                          |                     |
| <b>Beamforming Function</b> | <input checked="" type="checkbox"/>                                      | With beamforming | <input type="checkbox"/> | Without beamforming |
|                             | The product has beamforming function for 11a/g/n/ac in 2TX/3TX function. |                  |                          |                     |

## 1.2 Testing Applied Standards

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

- ♦ NCC LP0002 (2016-08-23)
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v04
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 644545 D01 v01r02
- ♦ FCC KDB 412172 D01 v01r01

## 1.3 Testing Location Information

| Testing Location                    |        |                                                                                  |                      |                      |
|-------------------------------------|--------|----------------------------------------------------------------------------------|----------------------|----------------------|
| <input type="checkbox"/>            | HWA YA | ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.   | TEL : 886-3-327-3456 | FAX : 886-3-318-0055 |
| <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       | Gino Huang、Stim Sung、Ron Huang、Lucke Hsieh | 20°C / 55%       | Jul. 08, 2017~Sep. 25, 2017  |
| Radiated (below 1GHz)<br>For Intentional – CTX test                 | 03CH01-CB     | Welson Chen                                | 22°C / 54%       | Oct. 19, 2017~ Oct. 26, 2017 |
| Radiated (below 1GHz)<br>For Unintentional – Normal Link test       | 03CH01-CB     | Nick Peng                                  | 24°C / 56%       | Apr. 26, 2014                |
| Radiated (1GHz~5 <sup>th</sup> Harmonic)<br>For Unintentional – CRX | 03CH01-CB     | Welson Chen                                | 22°C / 54%       | Oct. 19, 2017~ Oct. 26, 2017 |
| Radiated (1GHz~10 <sup>th</sup> Harmonic)                           | 03CH01-CB     | Mars Lin                                   | 22°C / 54%       | Jul. 03, 2017~Jul. 07, 2017  |
| AC Conduction                                                       | CO01-CB       | Parody Lin                                 | 24°C / 55%       | Apr. 30, 2014                |

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)  | 2.4 dB                 | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.6 dB                 | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.7 dB                 | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB                 | Confidence levels of 95% |
| Conducted Emission                   | 1.7 dB                 | Confidence levels of 95% |
| Output Power Measurement             | 1.33 dB                | Confidence levels of 95% |
| Power Density Measurement            | 1.27 dB                | Confidence levels of 95% |
| Bandwidth Measurement                | 9.74 x10 <sup>-8</sup> | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

For 1TX:

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11b_(1Mbps)_1TX            | -             |
| 2412MHz                        | 79            |
| 2437MHz                        | 83            |
| 2462MHz                        | 79            |
| 802.11g_(6Mbps)_1TX            | -             |
| 2412MHz                        | 63            |
| 2437MHz                        | 85            |
| 2462MHz                        | 58            |
| 802.11n HT20_Nss1,(MCS0)_1TX   | -             |
| 2412MHz                        | 63            |
| 2437MHz                        | 85            |
| 2462MHz                        | 58            |
| 802.11n HT40_Nss1,(MCS0)_1TX   | -             |
| 2422MHz                        | 56            |
| 2437MHz                        | 62            |
| 2452MHz                        | 53            |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -             |
| 2412MHz                        | 63            |
| 2437MHz                        | 85            |
| 2462MHz                        | 58            |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -             |
| 2422MHz                        | 56            |
| 2437MHz                        | 62            |
| 2452MHz                        | 53            |

**For 2TX:**

| Mode                              | Power Setting |
|-----------------------------------|---------------|
| 802.11b_(1Mbps)_2TX               | -             |
| 2412MHz                           | 79            |
| 2437MHz                           | 80            |
| 2462MHz                           | 78            |
| 802.11g_(6Mbps)_2TX               | -             |
| 2412MHz                           | 64            |
| 2437MHz                           | 85            |
| 2462MHz                           | 66            |
| 802.11n HT20_Nss1,(MCS0)_2TX      | -             |
| 2412MHz                           | 64            |
| 2437MHz                           | 85            |
| 2462MHz                           | 66            |
| 802.11n HT40_Nss1,(MCS0)_2TX      | -             |
| 2422MHz                           | 58            |
| 2437MHz                           | 60            |
| 2452MHz                           | 54            |
| 802.11ac VHT20_Nss1,(MCS0)_2TX    | -             |
| 2412MHz                           | 64            |
| 2437MHz                           | 85            |
| 2462MHz                           | 66            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX    | -             |
| 2422MHz                           | 58            |
| 2437MHz                           | 60            |
| 2452MHz                           | 54            |
| 802.11g-BF_(6Mbps)_2TX            | -             |
| 2412MHz                           | 64            |
| 2437MHz                           | 85            |
| 2462MHz                           | 66            |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX   | -             |
| 2412MHz                           | 64            |
| 2437MHz                           | 85            |
| 2462MHz                           | 66            |
| 802.11ac VHT20-BF_Nss1,(MCS0)_2TX | -             |
| 2412MHz                           | 64            |
| 2437MHz                           | 85            |
| 2462MHz                           | 66            |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX   | -             |
| 2422MHz                           | 58            |
| 2437MHz                           | 60            |
| 2452MHz                           | 54            |
| 802.11ac VHT40-BF_Nss1,(MCS0)_2TX | -             |



## NCC Test Report

Report No. : TR441804-43AA

| Mode    | Power Setting |
|---------|---------------|
| 2422MHz | 58            |
| 2437MHz | 60            |
| 2452MHz | 54            |

**For 3TX:**

| Mode                              | Power Setting |
|-----------------------------------|---------------|
| 802.11b_(1Mbps)_3TX               | -             |
| 2412MHz                           | 78            |
| 2437MHz                           | 80            |
| 2462MHz                           | 79            |
| 802.11g_(6Mbps)_3TX               | -             |
| 2412MHz                           | 63            |
| 2437MHz                           | 85            |
| 2462MHz                           | 64            |
| 802.11n HT20_Nss1,(MCS0)_3TX      | -             |
| 2412MHz                           | 63            |
| 2437MHz                           | 85            |
| 2462MHz                           | 64            |
| 802.11ac VHT20_Nss1,(MCS0)_3TX    | -             |
| 2412MHz                           | 63            |
| 2437MHz                           | 85            |
| 2462MHz                           | 64            |
| 802.11n HT40_Nss1,(MCS0)_3TX      | -             |
| 2422MHz                           | 56            |
| 2437MHz                           | 62            |
| 2452MHz                           | 54            |
| 802.11ac VHT40_Nss1,(MCS0)_3TX    | -             |
| 2422MHz                           | 56            |
| 2437MHz                           | 62            |
| 2452MHz                           | 54            |
| 802.11g-BF_(6Mbps)_3TX            | -             |
| 2412MHz                           | 63            |
| 2437MHz                           | 85            |
| 2462MHz                           | 64            |
| 802.11n HT20-BF_Nss1,(MCS0)_3TX   | -             |
| 2412MHz                           | 63            |
| 2437MHz                           | 85            |
| 2462MHz                           | 64            |
| 802.11ac VHT20-BF_Nss1,(MCS0)_3TX | -             |
| 2412MHz                           | 63            |
| 2437MHz                           | 85            |
| 2462MHz                           | 64            |
| 802.11n HT40-BF_Nss1,(MCS0)_3TX   | -             |
| 2422MHz                           | 56            |
| 2437MHz                           | 62            |
| 2452MHz                           | 54            |
| 802.11ac VHT40-BF_Nss1,(MCS0)_3TX | -             |

| Mode    | Power Setting |
|---------|---------------|
| 2422MHz | 56            |
| 2437MHz | 62            |
| 2452MHz | 54            |

**Note:**

- ♦ To evaluate output power for the 11g/n(HT20/40) 1TX, 2TX & 3TX, the other test items are covered by 802.11ac VHT20/40 MCS0.
- ♦ For other tests: Beam forming cover Non-Beam forming, STBC, LDPC in DTS Band.
- ♦ For the 2.4GHz 11ac mode, this is also covered by low data rate MCS0.

## 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                                            |
| 2                                                                             | EUT + PoE                                                |
| 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>9kHz~1GHz</b>                                                                                                                                                           |                                                                                                                                                                                                                                                     |
| <b>Operating Mode</b>                                                                                                                                                      | Intentional – CTX                                                                                                                                                                                                                                   |
| The EUT was performed at Z axis and Y axis position. The worst case was found at Z axis, so it was selected to perform test and its test result was written in the report. |                                                                                                                                                                                                                                                     |
| 1                                                                                                                                                                          | EUT Z axis-2.4GHz + Adapter                                                                                                                                                                                                                         |
| 2                                                                                                                                                                          | EUT Z axis-5GHz + Adapter                                                                                                                                                                                                                           |
| 3                                                                                                                                                                          | EUT Z axis-2.4GHz + PoE                                                                                                                                                                                                                             |
| 4                                                                                                                                                                          | EUT Z axis-5GHz + PoE                                                                                                                                                                                                                               |
| For operating mode 1 is the worst case and it was record in this test report.                                                                                              |                                                                                                                                                                                                                                                     |
| <b>Operating Mode</b>                                                                                                                                                      | Unintentional – Normal Link                                                                                                                                                                                                                         |
| 1                                                                                                                                                                          | EUT Y axis + Adapter                                                                                                                                                                                                                                |
| 2                                                                                                                                                                          | EUT Z axis + Adapter                                                                                                                                                                                                                                |
| Mode 2 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.                                              |                                                                                                                                                                                                                                                     |
| 3                                                                                                                                                                          | EUT Z axis + PoE                                                                                                                                                                                                                                    |
| For operating mode 2 is the worst case and it was record in this test report.                                                                                              |                                                                                                                                                                                                                                                     |

| <b>1GHz~5<sup>th</sup> Harmonic</b>                                                                                                                                        |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Operating Mode</b>                                                                                                                                                      | Unintentional – CRX         |
| The EUT was performed at Z axis and Y axis position. The worst case was found at Z axis, so it was selected to perform test and its test result was written in the report. |                             |
| 1                                                                                                                                                                          | EUT Z axis-2.4GHz + Adapter |
| 2                                                                                                                                                                          | EUT Z axis-5GHz + Adapter   |
| 3                                                                                                                                                                          | EUT Z axis-2.4GHz + PoE     |
| 4                                                                                                                                                                          | EUT Z axis-5GHz + PoE       |
| For operating mode 4 is the worst case and it was record in this test report.                                                                                              |                             |
| <b>1GHz~10<sup>th</sup> Harmonic</b>                                                                                                                                       |                             |
| <b>Operating Mode</b>                                                                                                                                                      | Intentional – CTX           |
| 1                                                                                                                                                                          | EUT Z axis                  |
| 2                                                                                                                                                                          | EUT Y axis                  |
| Mode 2 has been evaluated to be the worst case after evaluating. Consequently, measurement will follow this same test mode.                                                |                             |

Note:

For other tests:

The PoE is for measurement only, would not be marketed, and its information as below:

| <b>Equipment</b> | <b>Brand Name</b> | <b>Model Name</b>  | <b>FCC ID</b> |
|------------------|-------------------|--------------------|---------------|
| PoE              | PHIHONG           | POE60U-560(G)-VC-R | DoC           |

For Intentional – CTX and Unintentional – CRX tests:

The PoE is for measurement only, would not be marketed, and its information as below:

| <b>Equipment</b> | <b>Brand Name</b>                              | <b>Model Name</b> | <b>FCC ID</b> |
|------------------|------------------------------------------------|-------------------|---------------|
| PoE              | MICROSEMI CORP<br>ANALOG MIXED SIGNAL<br>GROUP | PD-9001GR/AT/AC   | DoC           |

## 2.3 EUT Operation during Test

For CTX Mode:

For non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN XP were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For CRX Mode:

The EUT was programmed to be in continuously receiving mode.

For Normal Link:

During the test, the EUT operation to normal function.

## 2.4 Accessories

| Accessories |                |            |                 |                                                        |
|-------------|----------------|------------|-----------------|--------------------------------------------------------|
| No.         | Equipment Name | Brand Name | Model Name      | Rating                                                 |
| 1           | AC Adapter     | LEADER     | NU60-H120500-13 | INPUT: 100-240V ~ 50/60Hz, 1.4A<br>OUTPUT: 12.0V, 5.0A |

## 2.5 Support Equipment

For Test Site No: CO01-CB

| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| 1                 | NB*3      | DELL       | E6430      | DoC    |

For Test Site No: 03CH01-CB (below 1GHz)

Operating Mode: Intentional – CTX

| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| 1                 | NB        | DELL       | E4300      | DoC    |

Operating Mode: Unintentional – Normal Link

| Support Equipment |           |            |            |             |
|-------------------|-----------|------------|------------|-------------|
| No.               | Equipment | Brand Name | Model Name | FCC ID      |
| 1                 | NB*2      | DELL       | M1330      | E2K4965AGNM |
| 2                 | NB        | DELL       | E6430      | DoC         |

**For Test Site No: 03CH01-CB (Unintentional 1GHz~5<sup>th</sup> Harmonic)**

Operating Mode: Unintentional – CRX

| Support Equipment |           |                                                |                 |        |
|-------------------|-----------|------------------------------------------------|-----------------|--------|
| No.               | Equipment | Brand Name                                     | Model Name      | FCC ID |
| 1                 | NB        | DELL                                           | E4300           | DoC    |
| 2                 | PoE       | MICROSEMI CORP<br>ANALOG MIXED<br>SIGNAL GROUP | PD-9001GR/AT/AC | DoC    |

**For Test Site No: 03CH01-CB (Intentional 1GHz~10<sup>th</sup> Harmonic)**

For non-beamforming mode:

| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| 1                 | NB        | DELL       | E4300      | DoC    |

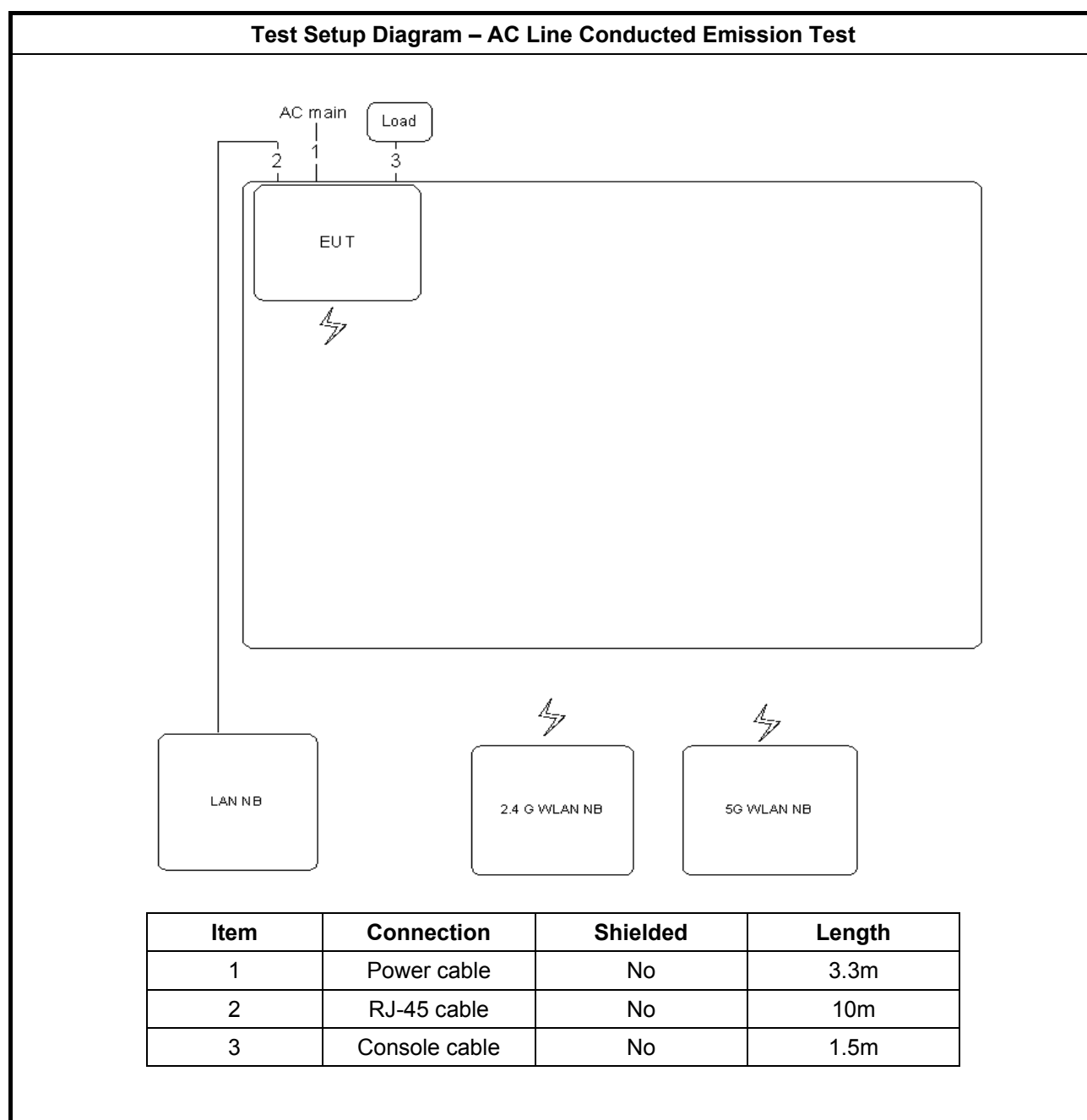
For beamforming mode:

| Support Equipment |                            |            |             |              |
|-------------------|----------------------------|------------|-------------|--------------|
| No.               | Equipment                  | Brand Name | Model Name  | FCC ID       |
| 1                 | NB*2                       | DELL       | E4300       | DoC          |
| 2                 | WLAN module<br>(RX Device) | Boardcom   | BCM943162ZP | QDS-BRCM1075 |

**For Test Site No: TH01-CB**

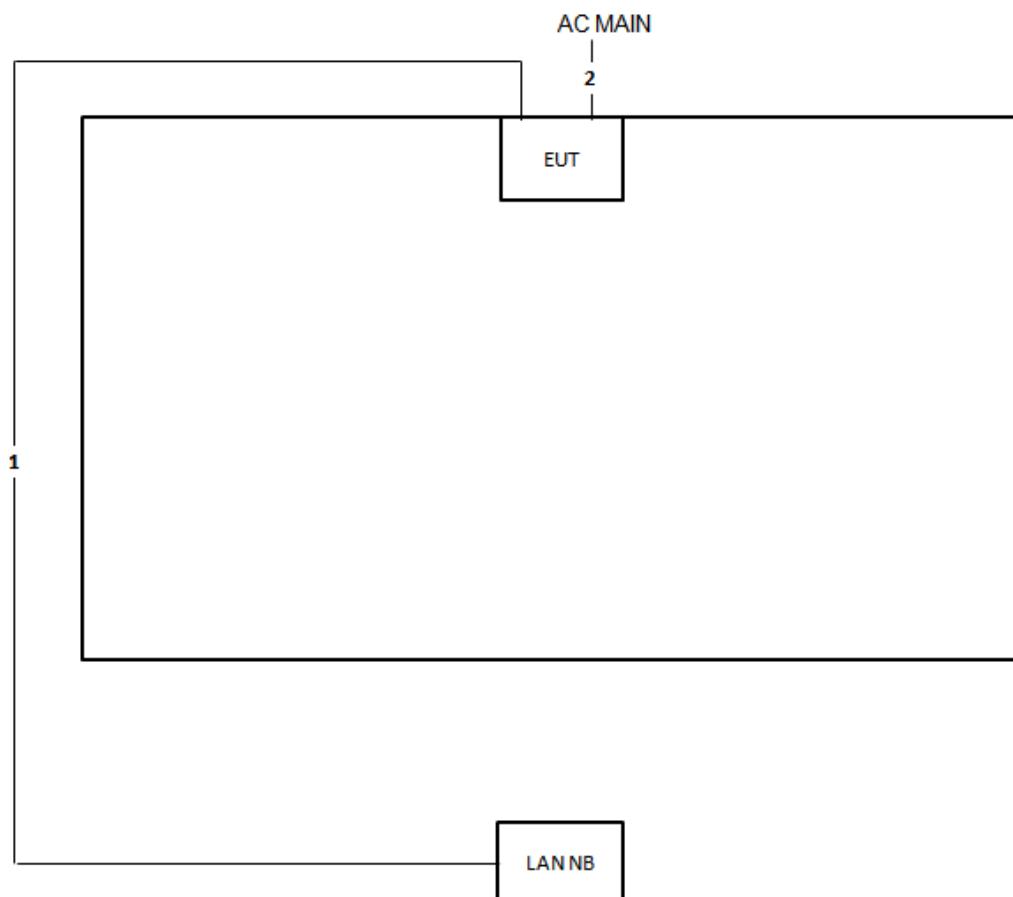
| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| 1                 | NB        | DELL       | E4300      | DoC    |

## 2.6 Test Setup Diagram



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

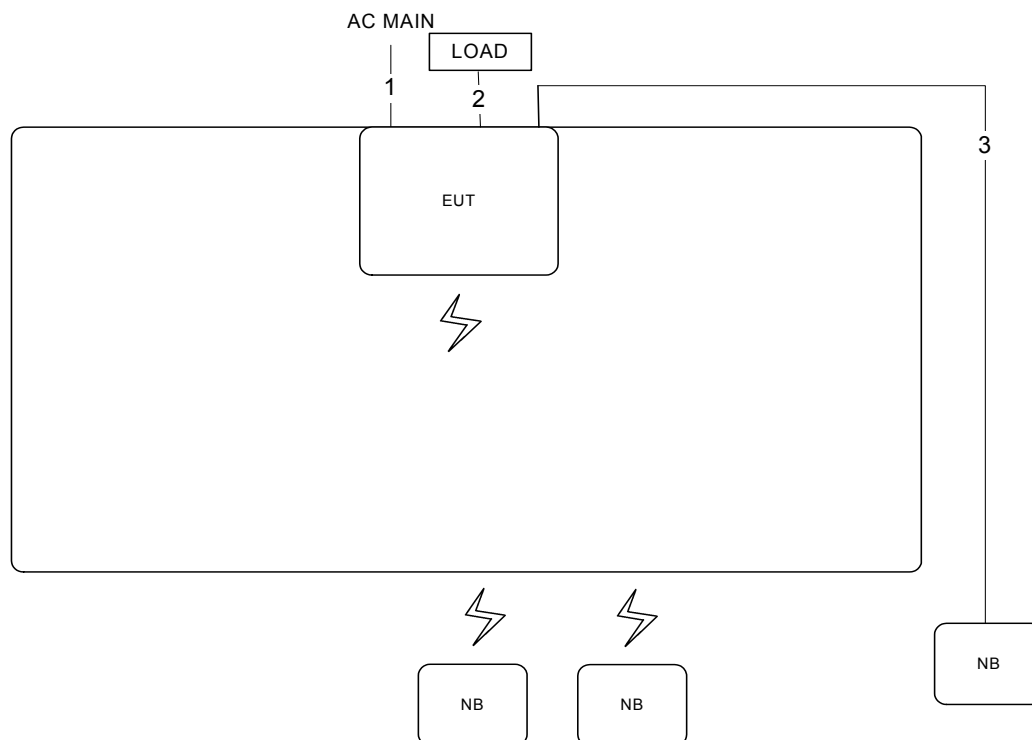
Operating Mode: Intentional – CTX



| Item | Connection  | Shielded | Length |
|------|-------------|----------|--------|
| 1    | RJ-45 cable | No       | 10m    |
| 2    | Power cable | No       | 3.3m   |

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

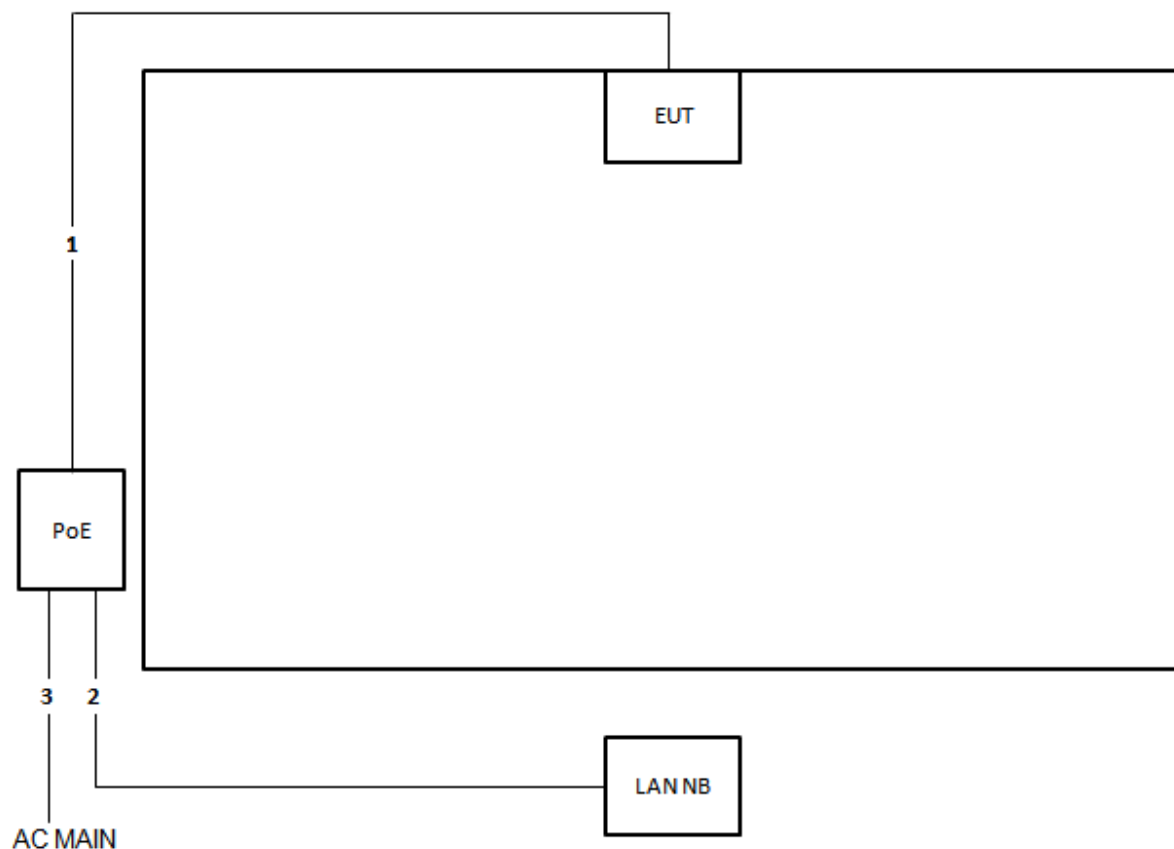
Operating Mode: Unintentional – Normal Link



| Item | Connection    | Shielded | Length |
|------|---------------|----------|--------|
| 1    | Power cable   | No       | 3.3m   |
| 2    | Console cable | No       | 1.5m   |
| 3    | RJ-45 cable   | No       | 10m    |

**Radiated Test (Unintentional 1GHz~5<sup>th</sup> Harmonic)**

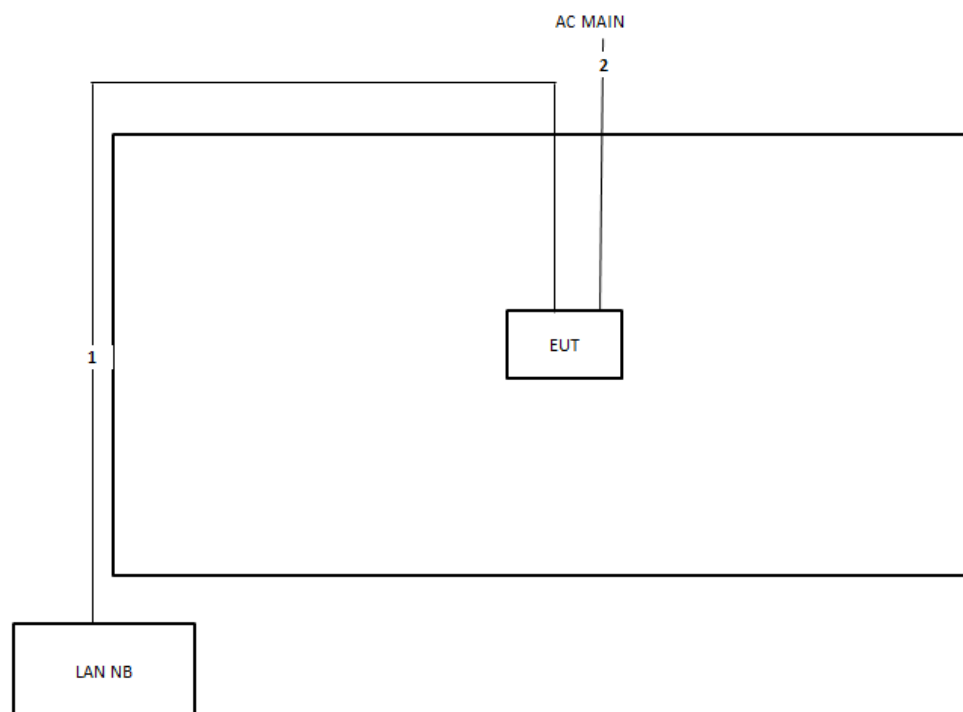
Operating Mode: Unintentional – CRX



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

**Test Setup Diagram - Radiated Test (Intentional 1GHz~10<sup>th</sup> Harmonic)**

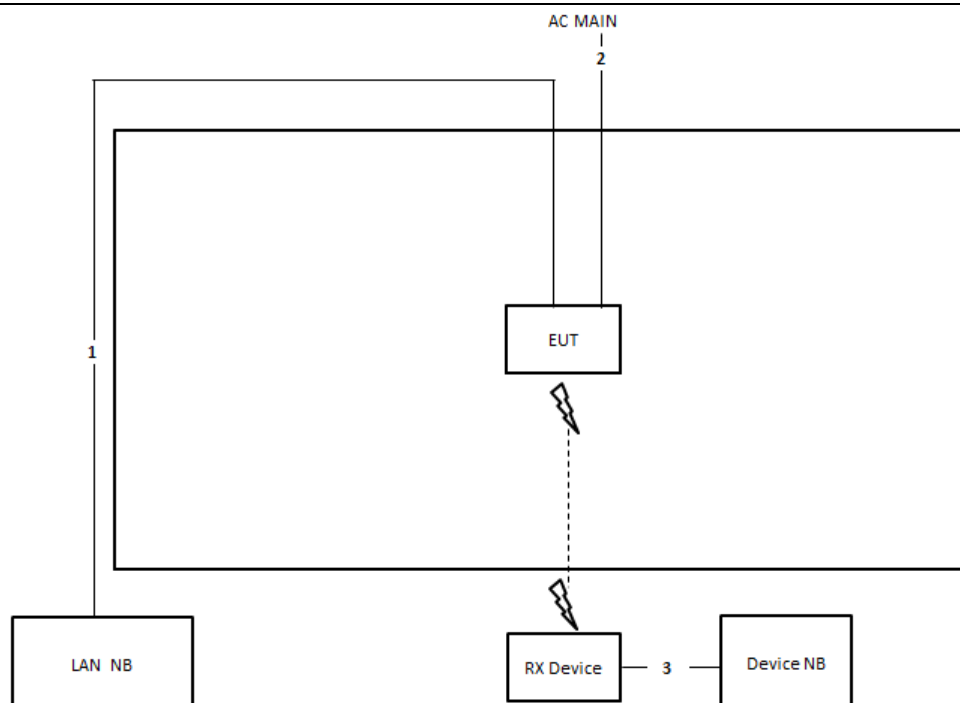
For non-beamforming mode:



| Item | Connection  | Shielded | Length |
|------|-------------|----------|--------|
| 1    | RJ-45 cable | No       | 10m    |
| 2    | Power cable | No       | 3.3m   |

**Test Setup Diagram - Radiated Test (Intentional 1GHz~10<sup>th</sup> Harmonic)**

For beamforming mode:



| Item | Connection  | Shielded | Length |
|------|-------------|----------|--------|
| 1    | RJ-45 cable | No       | 10m    |
| 2    | Power cable | No       | 3.3m   |
| 3    | RJ-45 cable | No       | 1.5m   |

### 3 Transmitter Test Result

### 3.1 AC Power-line Conducted Emissions

### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit |            |           |
|-----------------------------------------|------------|-----------|
| Frequency Emission (MHz)                | Quasi-Peak | Average   |
| 0.15-0.5                                | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                   | 56         | 46        |
| 5-30                                    | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

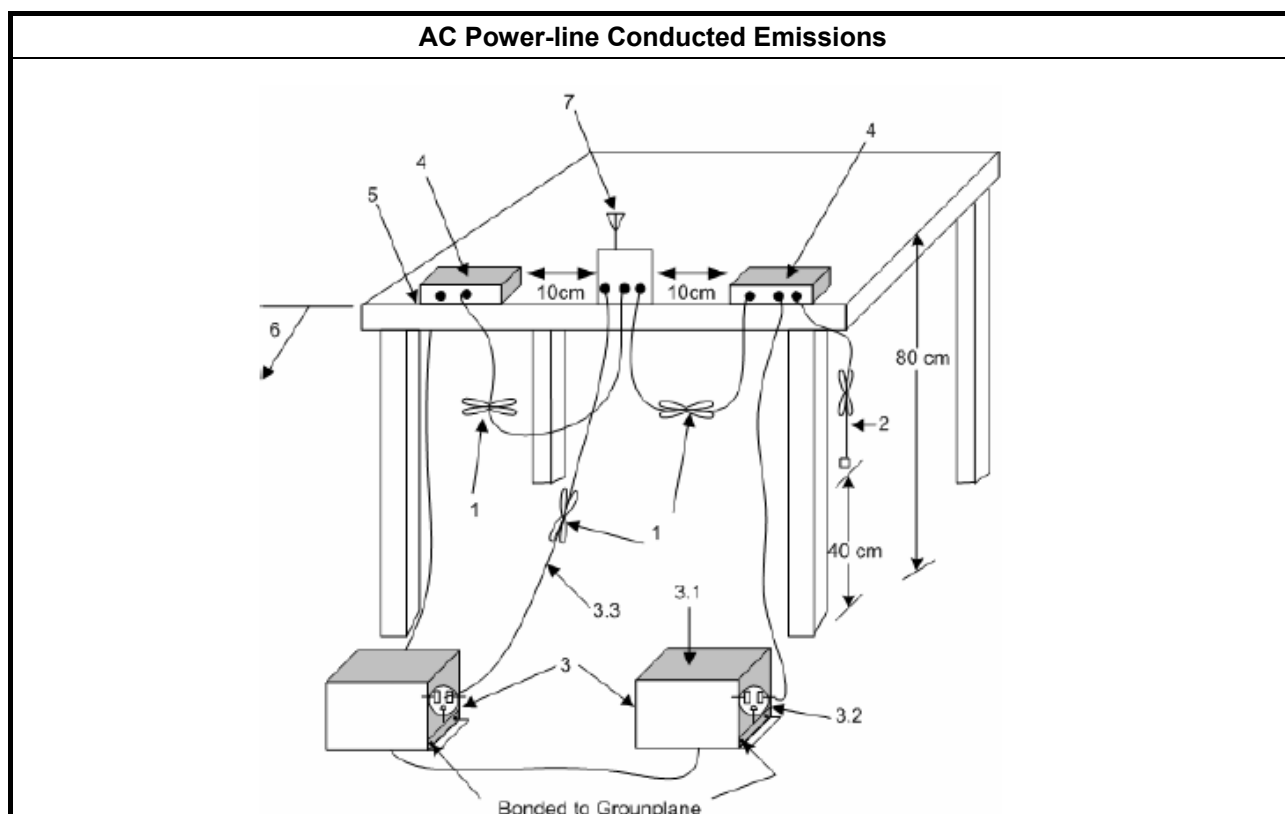
### 3.1.2 Measuring Instruments

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

### 3.1.3 Test Procedures

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

### 3.1.4 Test Setup



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

Refer as Appendix A

## 3.2 DTS Bandwidth

### 3.2.1 6dB Bandwidth Limit

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

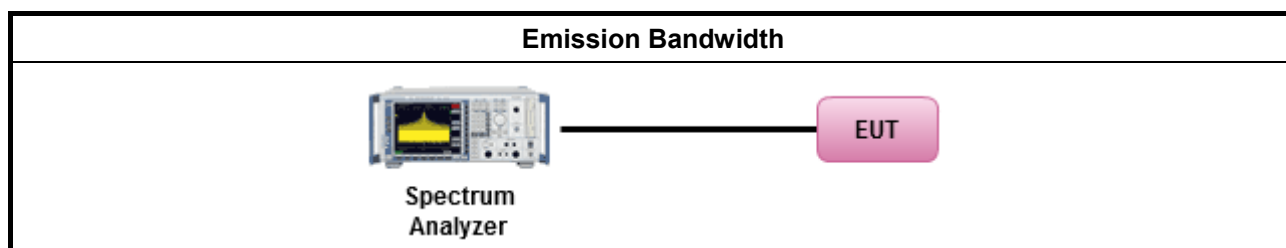
### 3.2.2 Measuring Instruments

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 8.1 Option 1 for 6 dB bandwidth measurement. |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 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                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>                                                                                                                                                                                                                                 |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>                                                                                                                                                                                                                                    |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS):</li> </ul>                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dBm</li> </ul> |
| $P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi. |                                                                                                                                                                                                                                                                                                                                                                                                             |

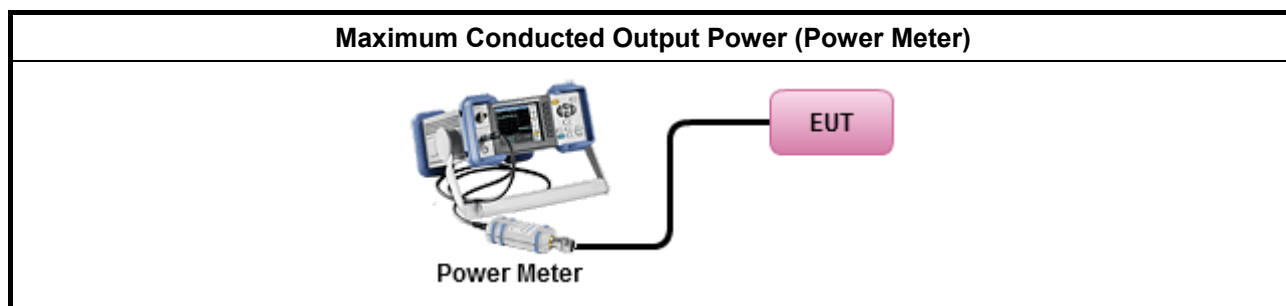
#### 3.3.2 Measuring Instruments

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 9.1.1 Option 1 (RBW $\geq$ EBW method).                                                                                                                                                                                                                                                                         |
|                                                                                         | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW $\geq$ DTS BW)                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>▪ Maximum Conducted Output Power</li> </ul>      |                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                         | [duty cycle $\geq$ 98% or external video / power trigger]                                                                                                                                                                                                                                                                                                                |
|                                                                                         | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).                                                                                                                                                                                                                                                              |
|                                                                                         | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)                                                                                                                                                                                                                                                                  |
|                                                                                         | duty cycle < 98% and average over on/off periods with duty factor                                                                                                                                                                                                                                                                                                        |
|                                                                                         | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).                                                                                                                                                                                                                                                              |
|                                                                                         | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)                                                                                                                                                                                                                                                                  |
|                                                                                         | RF power meter and average over on/off periods with duty factor or gated trigger                                                                                                                                                                                                                                                                                         |
|                                                                                         | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter).                                                                                                                                                                                                                                              |
|                                                                                         | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method.                                                                                                                                                                                                                                                                            |
|                                                                                         | <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>P_{total} = P_1 + P_2 + \dots + P_n</math><br/>           (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math>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 |

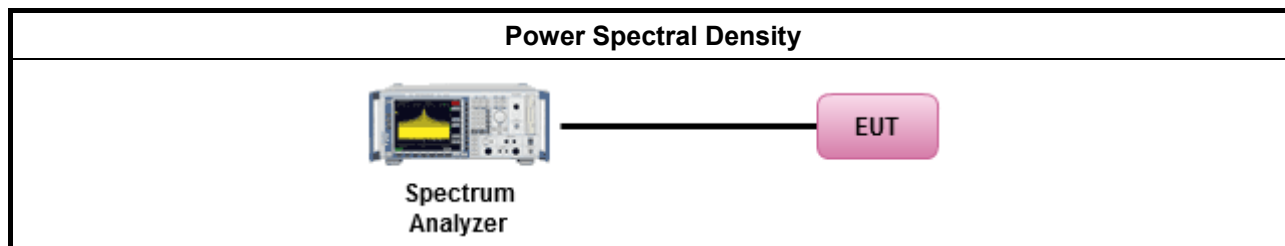
#### 3.4.2 Measuring Instruments

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 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).<br>[duty cycle $\geq$ 98% or external video / power trigger]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 10.3 Method AVGPS-1 (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 10.4 Method AVGPS-2 (slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                     | duty cycle $<$ 98% and average over on/off periods with duty factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 10.5 Method AVGPS-1 Alt (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 10.6 Method AVGPS-2 Alt. (slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ▪                                   | 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 (dB) |
| Peak output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20         |
| Average output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30         |
| <p>Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak 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> |            |

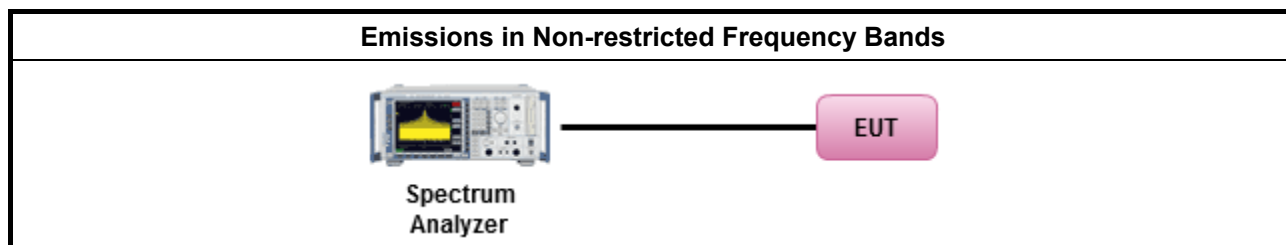
#### 3.5.2 Measuring Instruments

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 11 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.

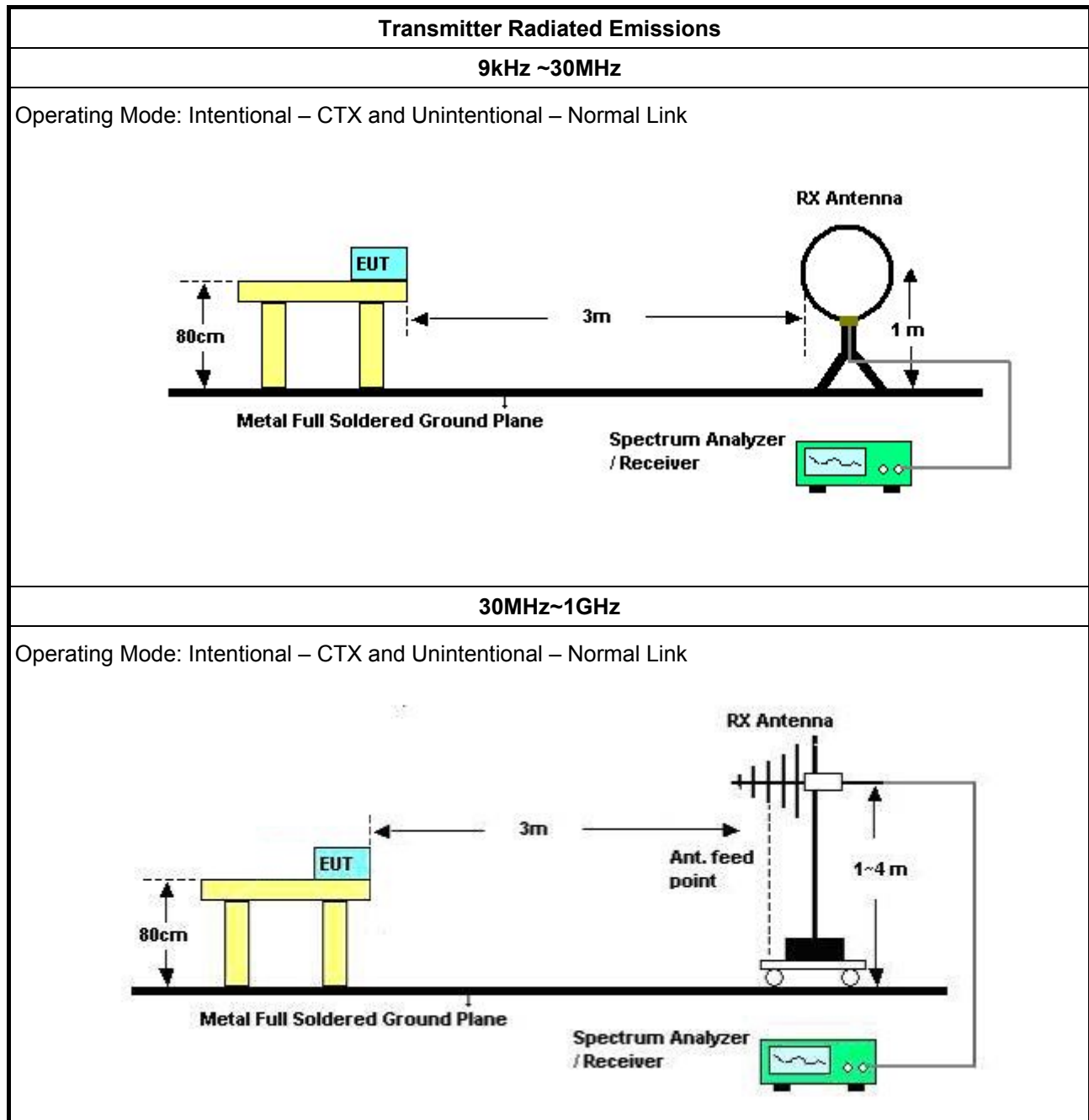
#### 3.6.2 Measuring Instruments

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

### 3.6.3 Test Procedures

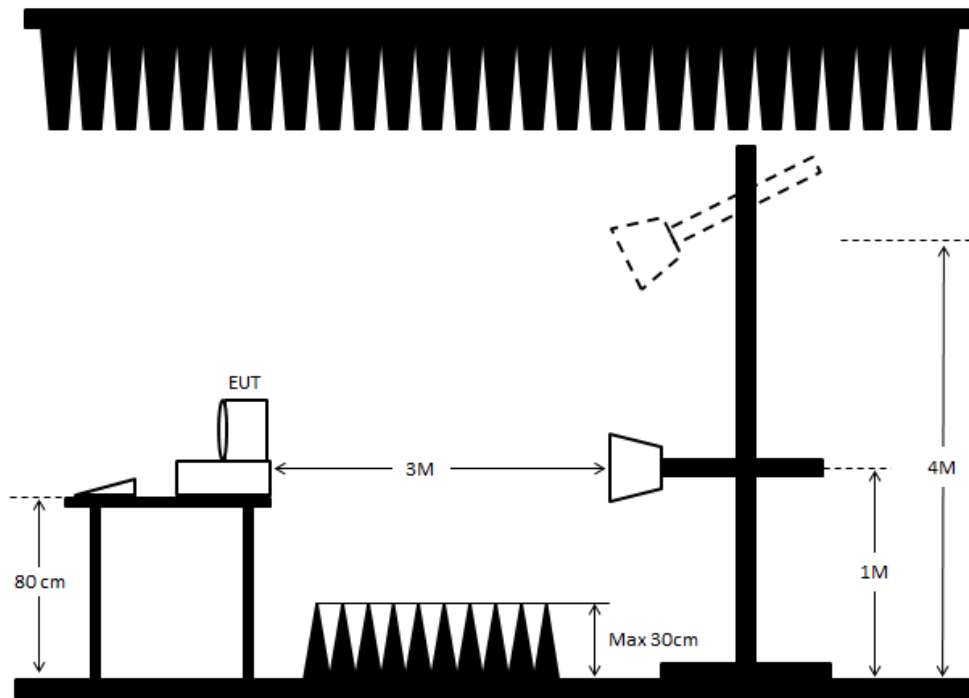
| Test Method                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 6.9.2.2 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 12 for unwanted emissions into restricted bands.</li> </ul>                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                              | <input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$ )                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                              | <input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                              | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$ ).                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                              | <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$ , where T is pulse time.                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                              | <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                              | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 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 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 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.</li> </ul>                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 13.3 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 and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2.</li> </ul>                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below:<br/>(1) Measure and sum the spectra across the outputs or<br/>(2) Measure and add <math>10 \log(N)</math> 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

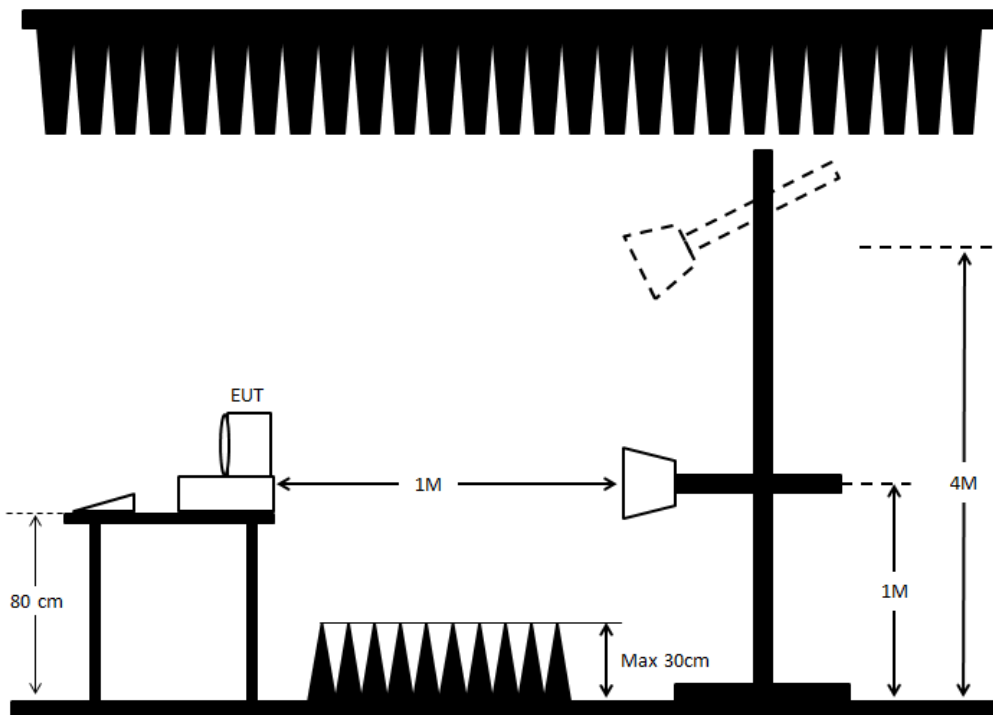


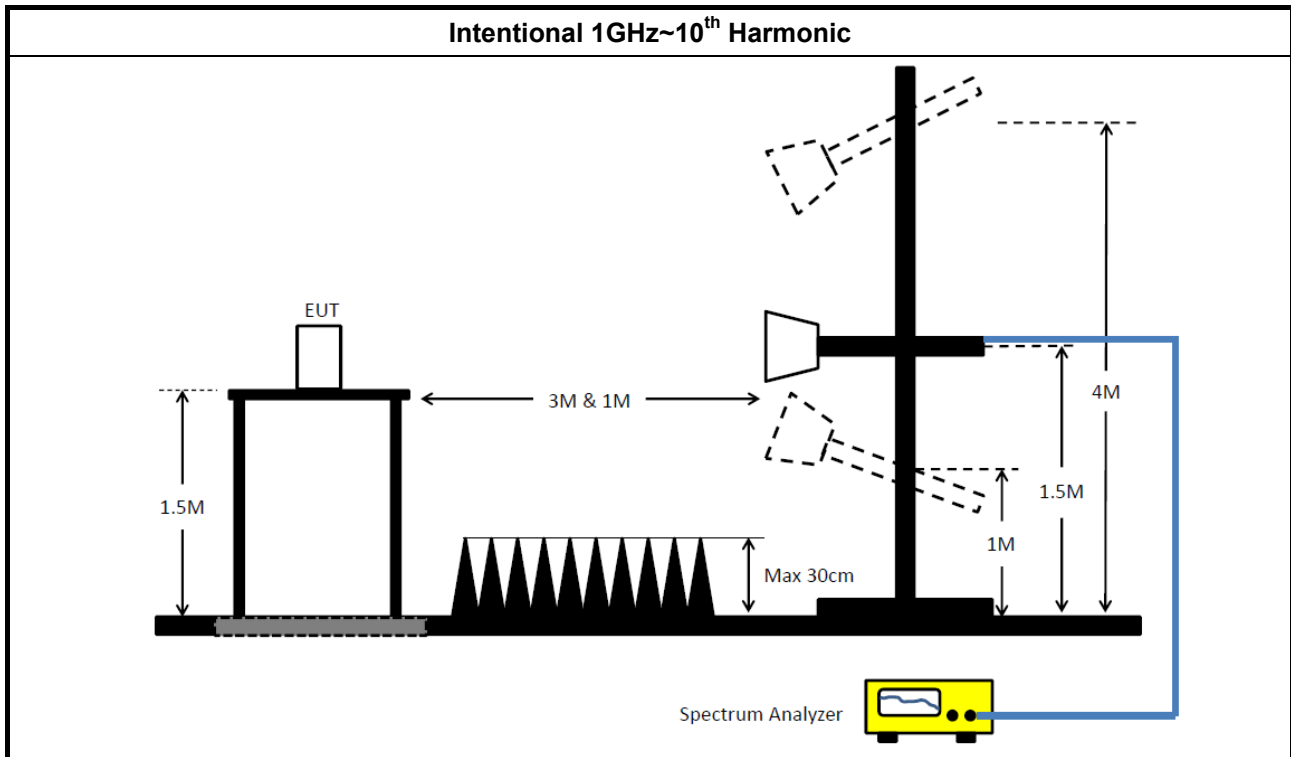
Unintentional 1GHz~5<sup>th</sup> Harmonic

1,000~18,000 MHz



18,000~30,000 MHz





### 3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

### 3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F

## 4 Test Equipment and Calibration Data

| Instrument                        | Manufacturer | Model No.         | Serial No.       | Characteristics | Calibration Date | Calibration Due Date | Remark                |
|-----------------------------------|--------------|-------------------|------------------|-----------------|------------------|----------------------|-----------------------|
| EMI Test Receiver                 | R&S          | ESCS 30           | 100355           | 9kHz ~ 2.75GHz  | Apr. 23, 2014    | Apr. 22, 2015        | Conduction (CO01-CB)  |
| LISN                              | F.C.C.       | FCC-LISN-50-1 6-2 | 04083            | 150kHz ~ 100MHz | Nov. 23, 2013    | Nov. 22, 2014        | Conduction (CO01-CB)  |
| LISN                              | Schwarzbeck  | NSLK 8127         | 8127478          | 9kHz ~ 30MHz    | Nov. 11, 2013    | Nov. 10, 2014        | Conduction (CO01-CB)  |
| COND Cable                        | Woken        | Cable             | 01               | 150kHz ~ 30MHz  | Dec. 04, 2013    | Dec. 03, 2014        | Conduction (CO01-CB)  |
| Software                          | Audix        | E3                | 5.410e           | -               | N.C.R.           | N.C.R.               | Conduction (CO01-CB)  |
| BILOG ANTENNA                     | Schaffner    | CBL6112B          | 2928             | 30MHz ~ 2GHz    | Dec. 27, 2013    | Dec. 26, 2014        | Radiation (03CH01-CB) |
| BILOG ANTENNA with 6dB Attenuator | TESEQ & EMCI | CBL6112D & N-6-06 | 37880 & AT-N0609 | 20MHz ~ 2GHz    | Aug. 30, 2016    | Aug. 29, 2017        | Radiation (03CH01-CB) |
| Horn Antenna                      | EMCO         | 3115              | 00075790         | 750MHz ~ 18GHz  | Nov. 10, 2016    | Nov. 09, 2017        | Radiation (03CH01-CB) |
| Horn Antenna                      | Schwarzbeck  | BBHA 9170         | BBHA917025 2     | 15GHz ~ 40GHz   | Jul. 25, 2016    | Jul. 24, 2017        | Radiation (03CH01-CB) |
| Horn Antenna                      | Schwarzbeck  | BBHA 9170         | BBHA917025 2     | 15GHz ~ 40GHz   | Jul. 05, 2017    | Jul. 04, 2018        | Radiation (03CH01-CB) |
| Pre-Amplifier                     | Agilent      | 8447D             | 2944A10991       | 0.1MHz ~ 1.3GHz | Nov. 12, 2013    | Nov. 11, 2014        | Radiation (03CH01-CB) |
| Pre-Amplifier                     | EMCI         | EMC330N           | 980332           | 20MHz ~ 3GHz    | May 02, 2017     | May 01, 2018         | Radiation (03CH01-CB) |
| Pre-Amplifier                     | Agilent      | 8449B             | 3008A02310       | 1GHz ~ 26.5GHz  | Jan. 16, 2017    | Jan. 15, 2018        | Radiation (03CH01-CB) |
| Pre-Amplifier                     | -            | -                 | TF-130N-R1       | 26GHz ~ 40GHz   | Jun. 20, 2017    | Jun. 19, 2018        | Radiation (03CH01-CB) |
| Spectrum analyzer                 | R&S          | FSP40             | 100019           | 9kHz~40GHz      | Dec. 02, 2013    | Dec. 01, 2014        | Radiation (03CH01-CB) |
| Spectrum Analyzer                 | R&S          | FSP40             | 100056           | 9kHz ~ 40GHz    | Nov. 22, 2016    | Nov. 21, 2017        | Radiation (03CH01-CB) |
| EMI Test Receiver                 | Agilent      | N9038A            | MY52260123       | 9kHz ~ 8GHz     | Dec. 12, 2013    | Dec. 11, 2014        | Radiation (03CH01-CB) |
| EMI Test                          | R&S          | ESCS              | 100355           | 9kHz ~ 2.75GHz  | May 06, 2017     | May 05, 2018         | Radiation (03CH01-CB) |
| Turn Table                        | INN CO       | CO 2000           | N/A              | 0 ~ 360 degree  | N.C.R.           | N.C.R.               | Radiation (03CH01-CB) |
| Antenna Mast                      | INN CO       | CO2000            | N/A              | 1 m - 4 m       | N.C.R.           | N.C.R.               | Radiation (03CH01-CB) |
| RF Cable-low                      | Woken        | Low Cable-1       | N/A              | 30MHz - 1GHz    | Nov. 17, 2013    | Nov. 16, 2014        | Radiation (03CH01-CB) |
| RF Cable-low                      | Woken        | Low Cable-16+17   | N/A              | 30 MHz ~ 1 GHz  | Oct. 24, 2016    | Oct. 23, 2017        | Radiation (03CH01-CB) |
| RF Cable-low                      | Woken        | Low Cable-16+17   | N/A              | 30 MHz ~ 1 GHz  | Oct. 11, 2017    | Oct. 10, 2018        | Radiation (03CH01-CB) |
|                                   |              |                   |                  |                 |                  |                      |                       |



## NCC Test Report

Report No. : TR441804-43AA

| Instrument        | Manufacturer | Model No.        | Serial No.    | Characteristics  | Calibration Date | Calibration Due Date | Remark                |
|-------------------|--------------|------------------|---------------|------------------|------------------|----------------------|-----------------------|
| RF Cable-high     | Woken        | High Cable-16    | N/A           | 1 GHz ~ 18 GHz   | Oct. 24, 2016    | Oct. 23, 2017        | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-16    | N/A           | 1 GHz ~ 18 GHz   | Oct. 11, 2017    | Oct. 10, 2018        | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-16+17 | N/A           | 1 GHz ~ 18 GHz   | Oct. 24, 2016    | Oct. 23, 2017        | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-16+17 | N/A           | 1 GHz ~ 18 GHz   | Oct. 11, 2017    | Oct. 10, 2018        | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G#1 | N/A           | 18GHz ~ 40 GHz   | Oct. 24, 2016    | Oct. 23, 2017        | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G#1 | N/A           | 18GHz ~ 40 GHz   | Oct. 11, 2017    | Oct. 10, 2018        | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G#2 | N/A           | 18GHz ~ 40 GHz   | Oct. 24, 2016    | Oct. 23, 2017        | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G#2 | N/A           | 18GHz ~ 40 GHz   | Oct. 11, 2017    | Oct. 10, 2018        | Radiation (03CH01-CB) |
| Loop Antenna      | Teseq        | HLA 6120         | 24155         | 9kHz - 30MHz     | Nov. 05, 2012*   | Nov. 05, 2014*       | Radiation (03CH01-CB) |
| Loop Antenna      | Teseq        | HLA 6120         | 24155         | 9kHz - 30 MHz    | Mar. 16, 2016*   | Mar. 15, 2018*       | Radiation (03CH01-CB) |
| Test Software     | Audix        | E3               | 6.2009-10-7   | N/A              | N/A              | N/A                  | Radiation (03CH01-CB) |
| Spectrum analyzer | R&S          | FSV40            | 100979        | 9kHz~40GHz       | Dec. 26, 2016    | Dec. 25, 2017        | Conducted (TH01-CB)   |
| RF Cable-high     | Woken        | RG402            | High Cable-6  | 1 GHz ~ 26.5 GHz | Oct. 24, 2016    | Oct. 23, 2017        | Conducted (TH01-CB)   |
| RF Cable-high     | Woken        | RG402            | High Cable-7  | 1 GHz ~ 26.5 GHz | Oct. 24, 2016    | Oct. 23, 2017        | Conducted (TH01-CB)   |
| RF Cable-high     | Woken        | RG402            | High Cable-8  | 1 GHz ~ 26.5 GHz | Oct. 24, 2016    | Oct. 23, 2017        | Conducted (TH01-CB)   |
| RF Cable-high     | Woken        | RG402            | High Cable-9  | 1 GHz ~ 26.5 GHz | Oct. 24, 2016    | Oct. 23, 2017        | Conducted (TH01-CB)   |
| RF Cable-high     | Woken        | RG402            | High Cable-10 | 1 GHz ~ 26.5 GHz | Oct. 24, 2016    | Oct. 23, 2017        | Conducted (TH01-CB)   |
| Power Sensor      | Agilent      | U2021XA          | MY53410001    | 50MHz~18GHz      | Nov. 22, 2016    | Nov. 21, 2017        | Conducted (TH01-CB)   |

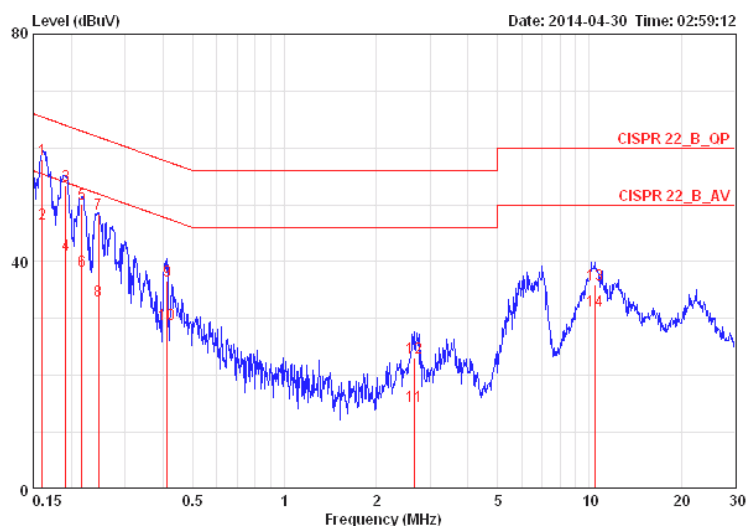
Note: Calibration Interval of instruments listed above is one year.

“\*” Calibration Interval of instruments listed above is two years.

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

### AC Power-line Conducted Emissions Result

|                    |             |             |         |
|--------------------|-------------|-------------|---------|
| Operating Mode     | 1           | Power Phase | Neutral |
| Operating Function | Normal Link |             |         |



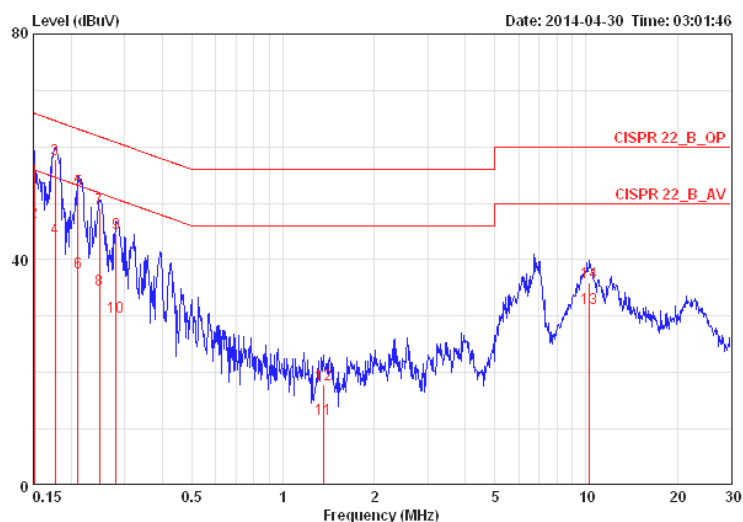
|    | Freq    | Level | Over   | Limit | LISN   | Read  | Cable | Pol/Phase | Remark  |
|----|---------|-------|--------|-------|--------|-------|-------|-----------|---------|
|    | MHz     | dBuV  | Limit  | Line  | Factor | Level | Loss  |           |         |
|    |         |       | dB     | dBuV  | dB     | dBuV  | dB    |           |         |
| 1  | 0.16070 | 57.92 | -7.51  | 65.43 | 0.07   | 57.69 | 0.16  | NEUTRAL   | QP      |
| 2  | 0.16070 | 46.56 | -8.87  | 55.43 | 0.07   | 46.33 | 0.16  | NEUTRAL   | AVERAGE |
| 3  | 0.19140 | 53.34 | -10.63 | 63.98 | 0.07   | 53.11 | 0.16  | NEUTRAL   | QP      |
| 4  | 0.19140 | 41.09 | -12.88 | 53.98 | 0.07   | 40.86 | 0.16  | NEUTRAL   | AVERAGE |
| 5  | 0.21620 | 50.08 | -12.89 | 62.96 | 0.07   | 49.84 | 0.17  | NEUTRAL   | QP      |
| 6  | 0.21620 | 38.34 | -14.63 | 52.96 | 0.07   | 38.10 | 0.17  | NEUTRAL   | AVERAGE |
| 7  | 0.24552 | 48.38 | -13.53 | 61.91 | 0.07   | 48.14 | 0.17  | NEUTRAL   | QP      |
| 8  | 0.24552 | 33.19 | -18.72 | 51.91 | 0.07   | 32.95 | 0.17  | NEUTRAL   | AVERAGE |
| 9  | 0.41266 | 36.64 | -20.95 | 57.59 | 0.07   | 36.39 | 0.18  | NEUTRAL   | QP      |
| 10 | 0.41266 | 28.97 | -18.62 | 47.59 | 0.07   | 28.72 | 0.18  | NEUTRAL   | AVERAGE |
| 11 | 2.664   | 14.66 | -31.34 | 46.00 | 0.12   | 14.27 | 0.27  | NEUTRAL   | AVERAGE |
| 12 | 2.664   | 23.08 | -32.92 | 56.00 | 0.12   | 22.69 | 0.27  | NEUTRAL   | QP      |
| 13 | 10.397  | 35.91 | -24.09 | 60.00 | 0.28   | 35.25 | 0.39  | NEUTRAL   | QP      |
| 14 | 10.397  | 31.40 | -18.60 | 50.00 | 0.28   | 30.74 | 0.39  | NEUTRAL   | AVERAGE |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

### AC Power-line Conducted Emissions Result

|                    |             |             |      |
|--------------------|-------------|-------------|------|
| Operating Mode     | 1           | Power Phase | Line |
| Operating Function | Normal Link |             |      |



|    | Freq    | Level | Over   | Limit | LISN   | Read  | Cable |           |         |
|----|---------|-------|--------|-------|--------|-------|-------|-----------|---------|
|    | MHz     | dBuV  | Limit  | Line  | Factor | Level | Loss  | Pol/Phase | Remark  |
|    |         |       | dB     | dBuV  |        | dB    | dB    |           |         |
| 1  | 0.15080 | 57.11 | -8.85  | 65.96 | 0.15   | 56.80 | 0.16  | LINE      | QP      |
| 2  | 0.15080 | 46.55 | -9.41  | 55.96 | 0.15   | 46.24 | 0.16  | LINE      | AVERAGE |
| 3  | 0.17678 | 57.73 | -6.90  | 64.64 | 0.15   | 57.42 | 0.16  | LINE      | QP      |
| 4  | 0.17678 | 43.90 | -10.73 | 54.64 | 0.15   | 43.59 | 0.16  | LINE      | AVERAGE |
| 5  | 0.21055 | 52.39 | -10.80 | 63.18 | 0.15   | 52.07 | 0.17  | LINE      | QP      |
| 6  | 0.21055 | 37.61 | -15.58 | 53.18 | 0.15   | 37.29 | 0.17  | LINE      | AVERAGE |
| 7  | 0.24814 | 49.00 | -12.82 | 61.82 | 0.15   | 48.68 | 0.17  | LINE      | QP      |
| 8  | 0.24814 | 34.69 | -17.13 | 51.82 | 0.15   | 34.37 | 0.17  | LINE      | AVERAGE |
| 9  | 0.28178 | 44.63 | -16.13 | 60.76 | 0.15   | 44.31 | 0.17  | LINE      | QP      |
| 10 | 0.28178 | 29.88 | -20.88 | 50.76 | 0.15   | 29.56 | 0.17  | LINE      | AVERAGE |
| 11 | 1.359   | 11.66 | -34.34 | 46.00 | 0.17   | 11.27 | 0.22  | LINE      | AVERAGE |
| 12 | 1.359   | 17.82 | -38.18 | 56.00 | 0.17   | 17.43 | 0.22  | LINE      | QP      |
| 13 | 10.288  | 31.36 | -18.64 | 50.00 | 0.38   | 30.60 | 0.39  | LINE      | AVERAGE |
| 14 | 10.288  | 35.95 | -24.05 | 60.00 | 0.38   | 35.19 | 0.39  | LINE      | QP      |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

**For 1TX:  
Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 802.11b_(1Mbps)_1TX            | -                | -               | -        | -                | -               |
| 2.4-2.4835GHz                  | 8.575M           | 12.144M         | 12M1G1D  | 8.05M            | 11.819M         |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -                | -               | -        | -                | -               |
| 2.4-2.4835GHz                  | 17.575M          | 18.516M         | 18M5D1D  | 17.175M          | 17.666M         |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -                | -               | -        | -                | -               |
| 2.4-2.4835GHz                  | 36.3M            | 36.232M         | 36M2D1D  | 35.7M            | 36.182M         |

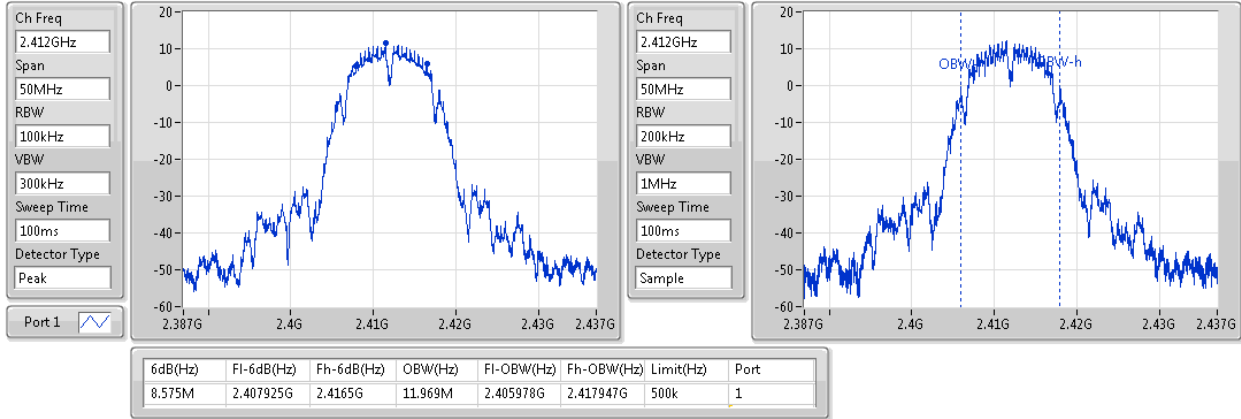
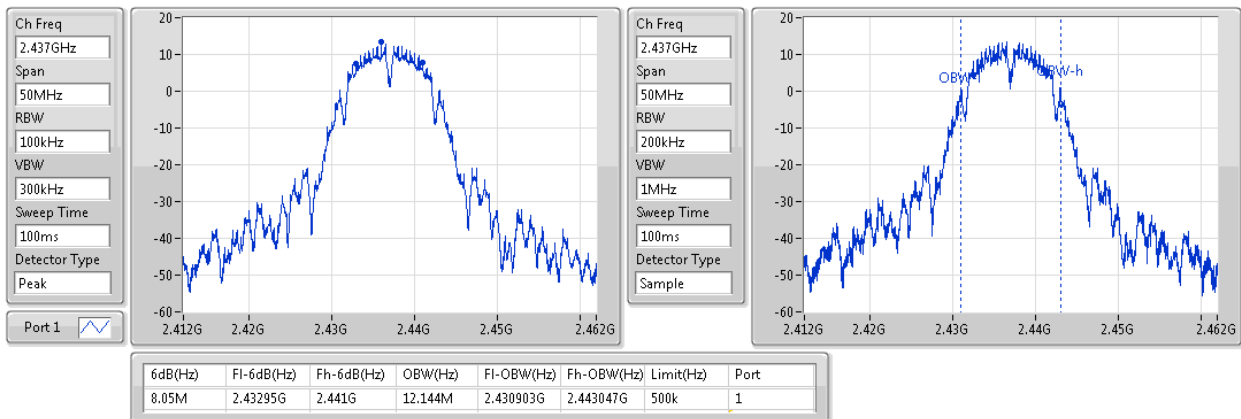
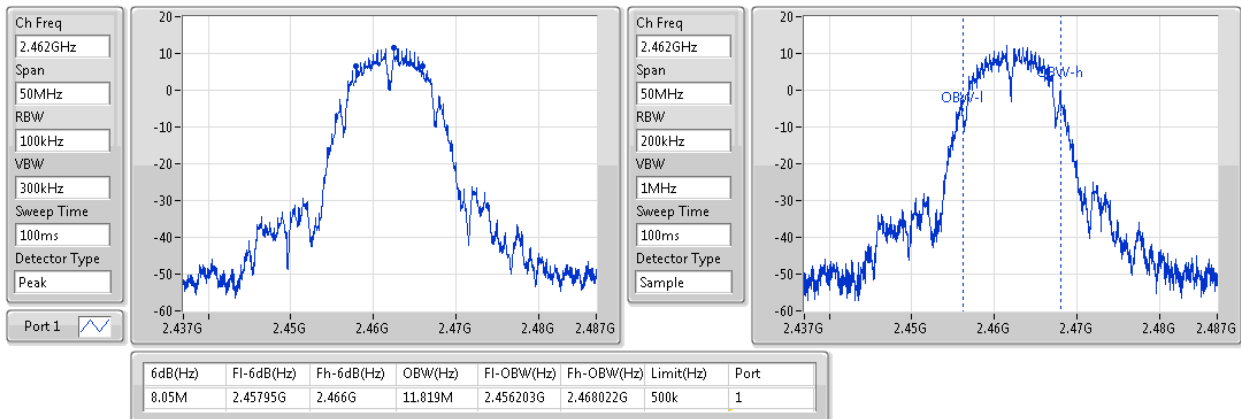
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

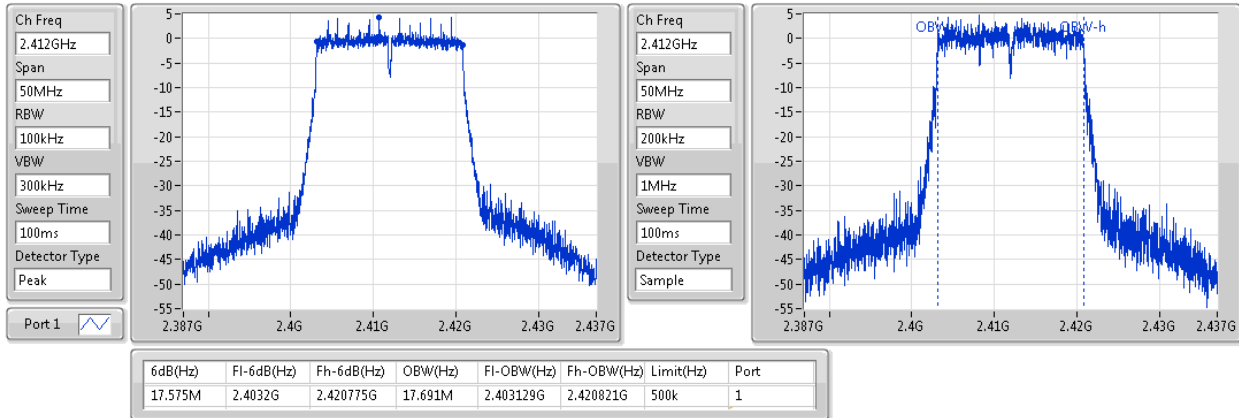
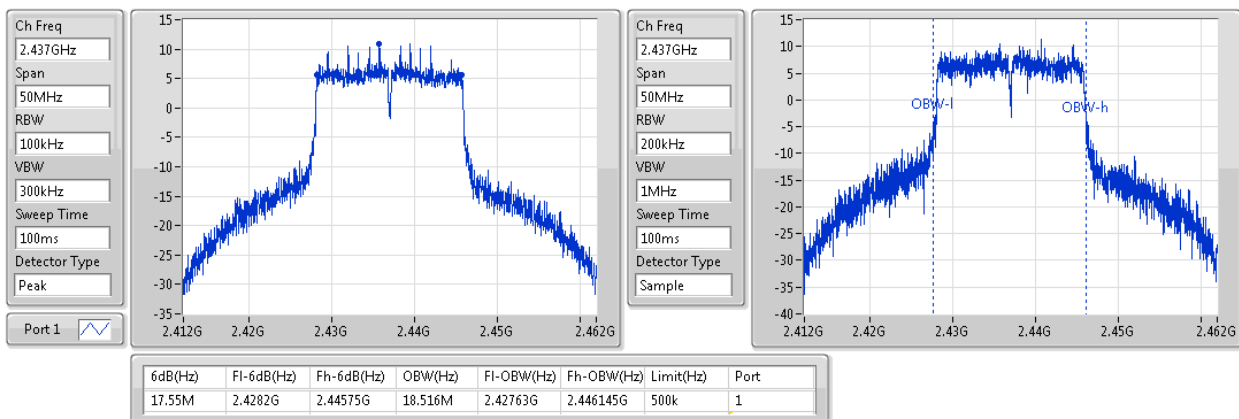
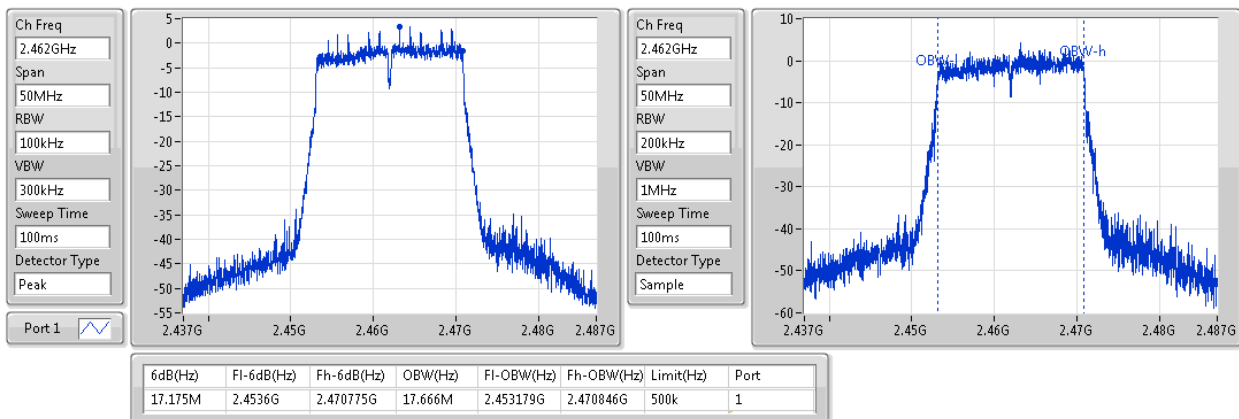
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

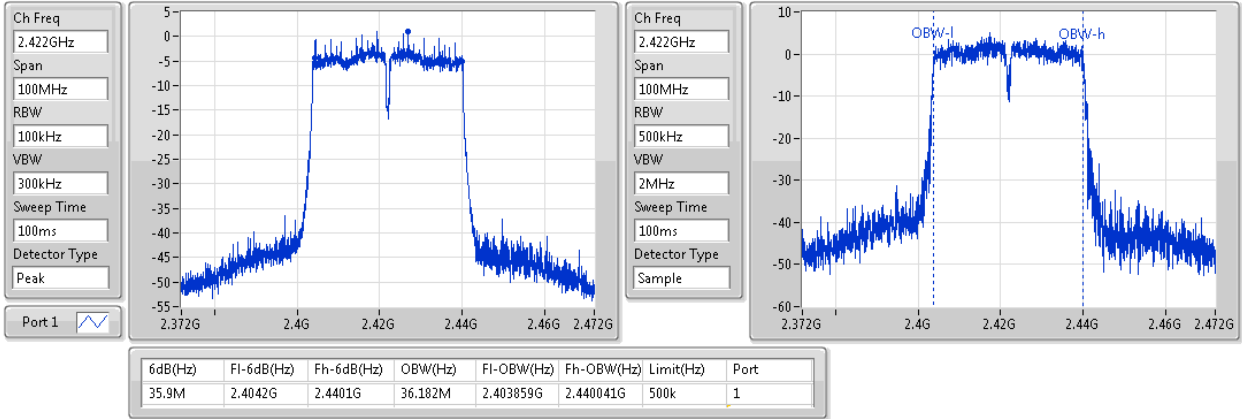
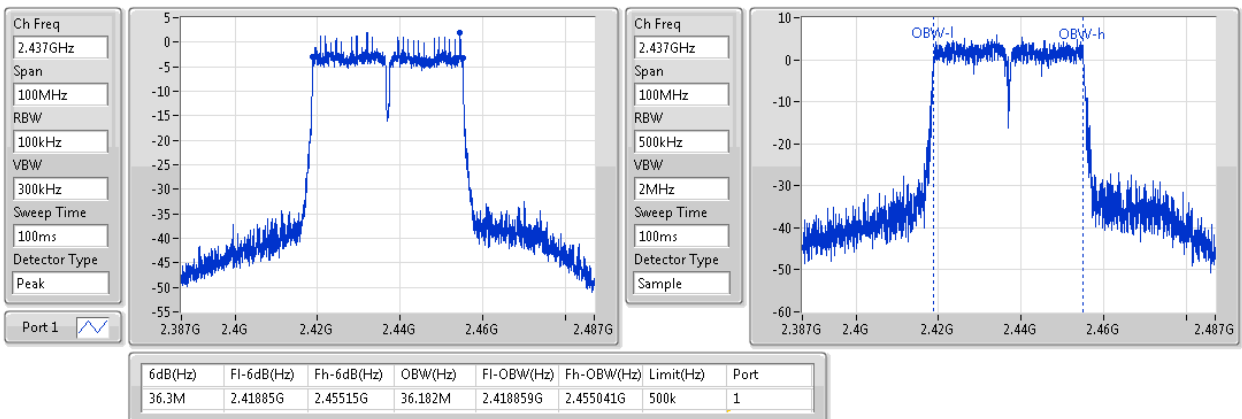
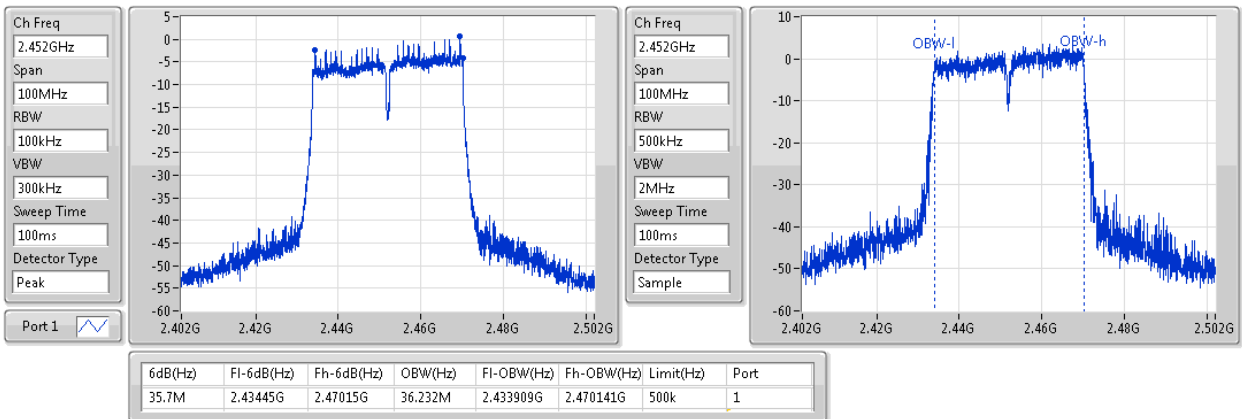
**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|
| 802.11b_(1Mbps)_1TX            | -      | -             | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 8.575M              | 11.969M            |
| 2437MHz                        | Pass   | 500k          | 8.05M               | 12.144M            |
| 2462MHz                        | Pass   | 500k          | 8.05M               | 11.819M            |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -      | -             | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 17.575M             | 17.691M            |
| 2437MHz                        | Pass   | 500k          | 17.55M              | 18.516M            |
| 2462MHz                        | Pass   | 500k          | 17.175M             | 17.666M            |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -      | -             | -                   | -                  |
| 2422MHz                        | Pass   | 500k          | 35.9M               | 36.182M            |
| 2437MHz                        | Pass   | 500k          | 36.3M               | 36.182M            |
| 2452MHz                        | Pass   | 500k          | 35.7M               | 36.232M            |

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

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

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

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


**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**2412MHz**

**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**2437MHz**

**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**2462MHz**


**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**2422MHz**

**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**2437MHz**

**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**2452MHz**


**For 2TX:  
Summary**

| Mode                              | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|-----------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 802.11b_(1Mbps)_2TX               | -                | -               | -        | -                | -               |
| 2.4-2.4835GHz                     | 9M               | 11.994M         | 12M0G1D  | 8.05M            | 11.469M         |
| 802.11ac VHT20-BF_Nss1,(MCS0)_2TX | -                | -               | -        | -                | -               |
| 2.4-2.4835GHz                     | 17.575M          | 18.541M         | 18M5D1D  | 17.525M          | 17.666M         |
| 802.11ac VHT40-BF_Nss1,(MCS0)_2TX | -                | -               | -        | -                | -               |
| 2.4-2.4835GHz                     | 36.35M           | 36.332M         | 36M3D1D  | 35.1M            | 36.032M         |

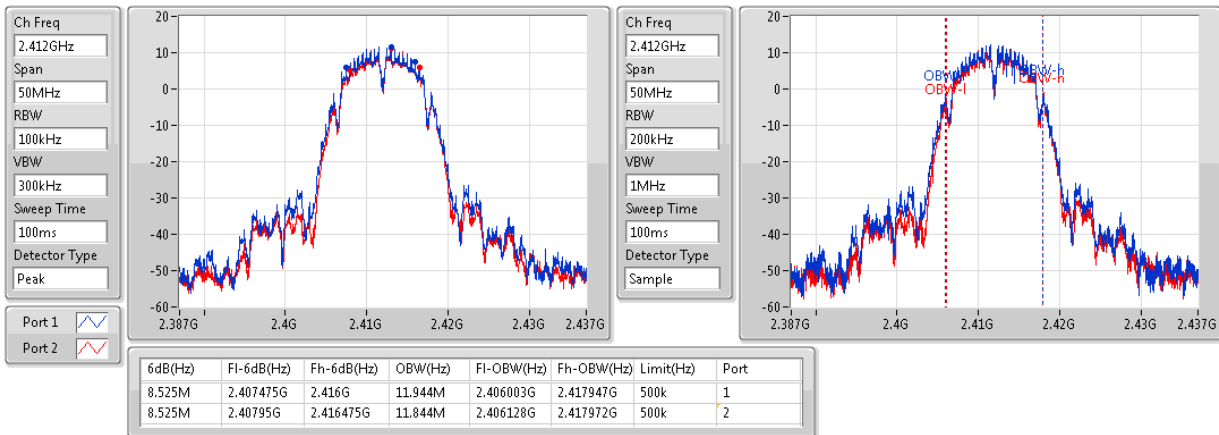
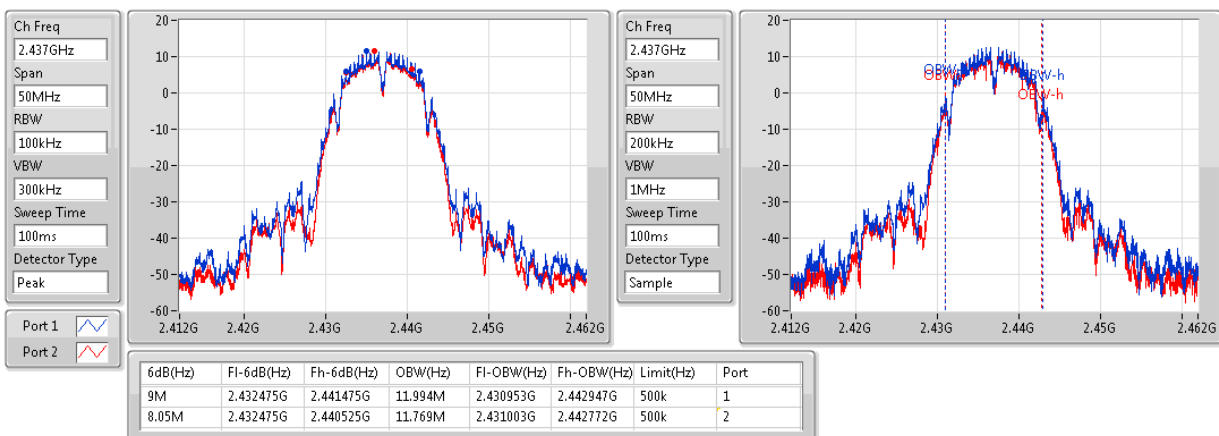
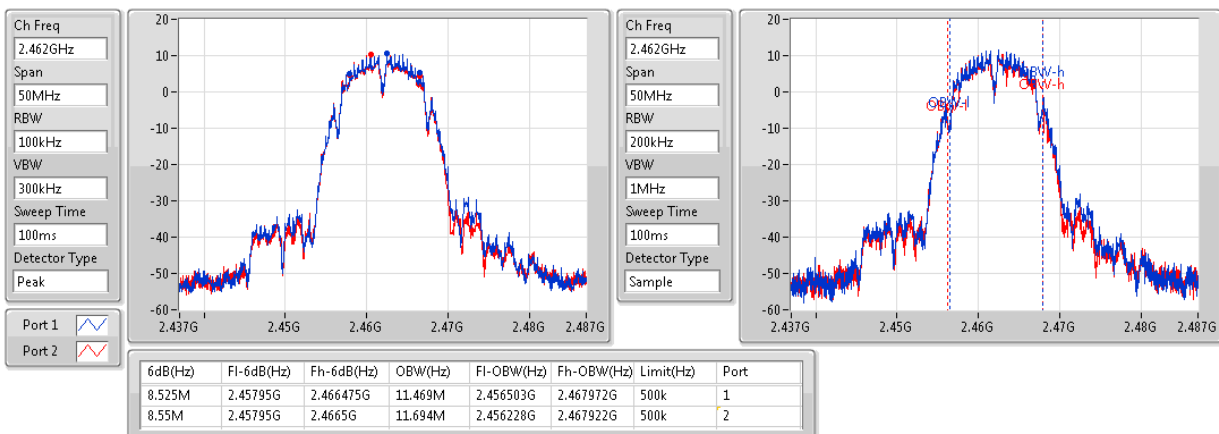
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

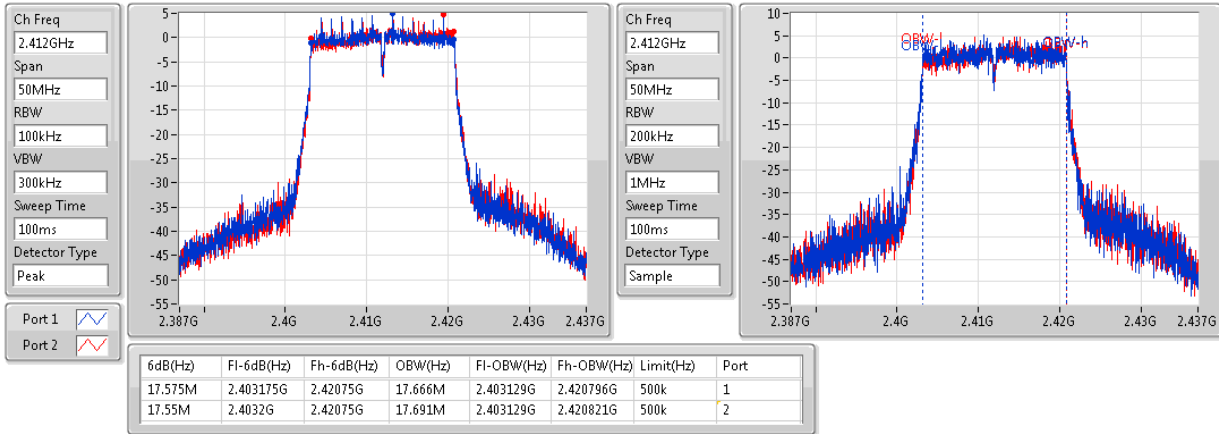
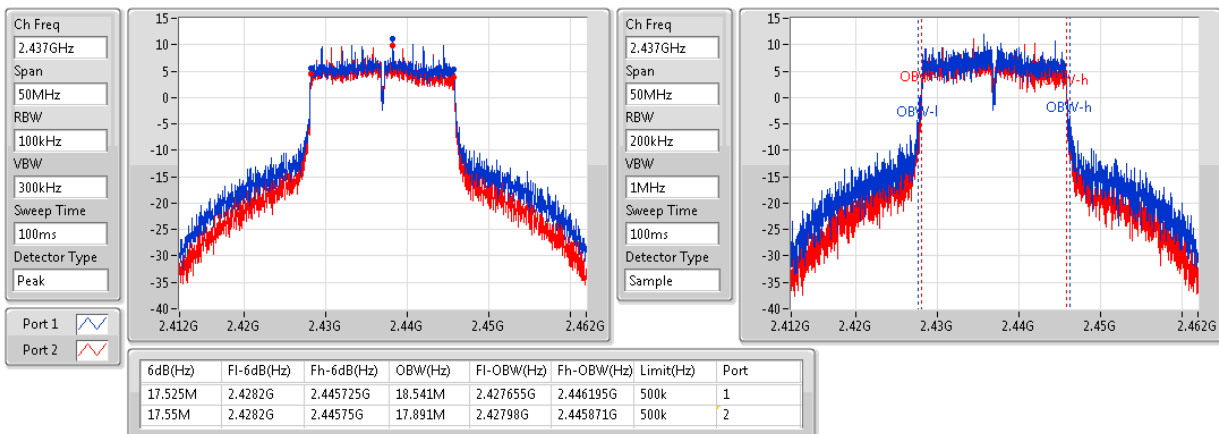
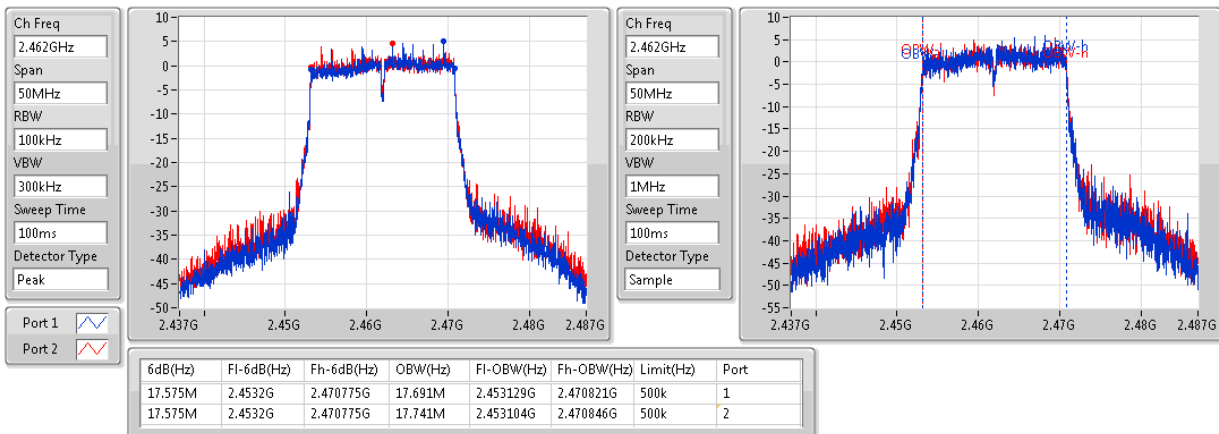
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

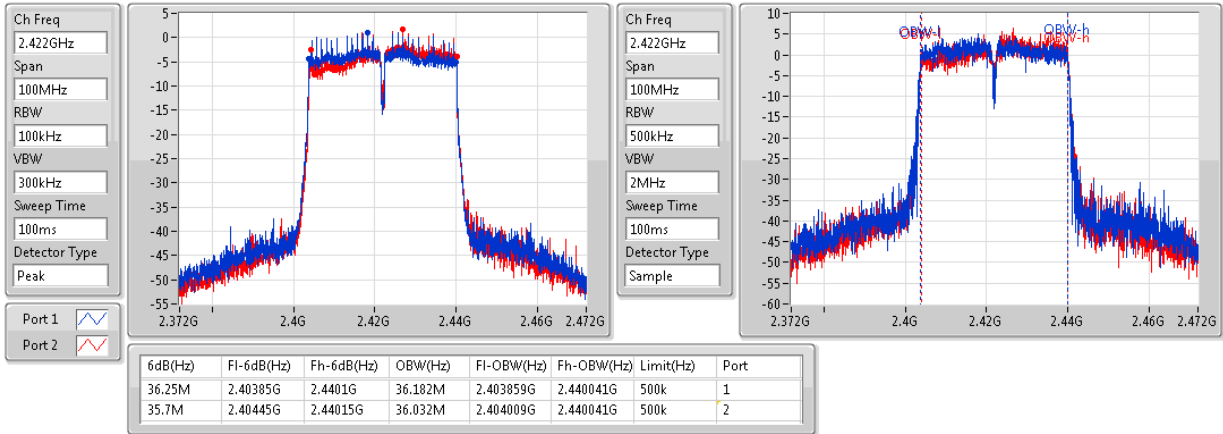
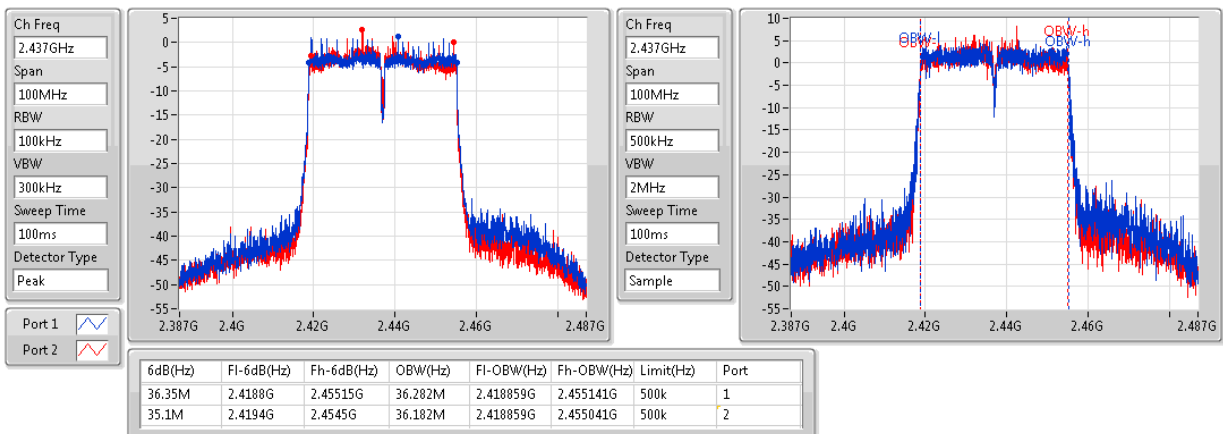
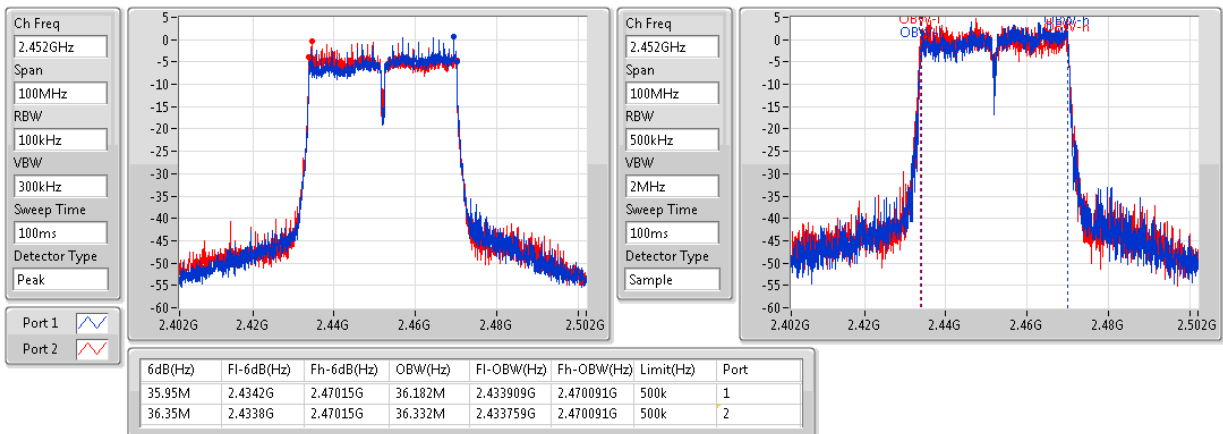
**Result**

| Mode                              | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|-----------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11b_(1Mbps)_2TX               | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                           | Pass   | 500k          | 8.525M              | 11.944M            | 8.525M              | 11.844M            |
| 2437MHz                           | Pass   | 500k          | 9M                  | 11.994M            | 8.05M               | 11.769M            |
| 2462MHz                           | Pass   | 500k          | 8.525M              | 11.469M            | 8.55M               | 11.694M            |
| 802.11ac VHT20-BF_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                           | Pass   | 500k          | 17.575M             | 17.666M            | 17.55M              | 17.691M            |
| 2437MHz                           | Pass   | 500k          | 17.525M             | 18.541M            | 17.55M              | 17.891M            |
| 2462MHz                           | Pass   | 500k          | 17.575M             | 17.691M            | 17.575M             | 17.741M            |
| 802.11ac VHT40-BF_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 2422MHz                           | Pass   | 500k          | 36.25M              | 36.182M            | 35.7M               | 36.032M            |
| 2437MHz                           | Pass   | 500k          | 36.35M              | 36.282M            | 35.1M               | 36.182M            |
| 2452MHz                           | Pass   | 500k          | 35.95M              | 36.182M            | 36.35M              | 36.332M            |

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

**802.11b\_(1Mbps)\_2TX**
**EBW**
**2412MHz**

**802.11b\_(1Mbps)\_2TX**
**EBW**
**2437MHz**

**802.11b\_(1Mbps)\_2TX**
**EBW**
**2462MHz**


**802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX**
**EBW**
**2412MHz**

**802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX**
**EBW**
**2437MHz**

**802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX**
**EBW**
**2462MHz**


**802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX**
**EBW**
**2422MHz**

**802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX**
**EBW**
**2437MHz**

**802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX**
**EBW**
**2452MHz**


**For 3TX:  
Summary**

| Mode                              | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|-----------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 802.11b_(1Mbps)_3TX               | -                | -               | -        | -                | -               |
| 2.4-2.4835GHz                     | 9.025M           | 11.969M         | 12M0G1D  | 8M               | 11.669M         |
| 802.11ac VHT20-BF_Nss1,(MCS0)_3TX | -                | -               | -        | -                | -               |
| 2.4-2.4835GHz                     | 17.575M          | 18.891M         | 18M9D1D  | 17.3M            | 17.666M         |
| 802.11ac VHT40-BF_Nss1,(MCS0)_3TX | -                | -               | -        | -                | -               |
| 2.4-2.4835GHz                     | 36.35M           | 36.282M         | 36M3D1D  | 35.45M           | 36.032M         |

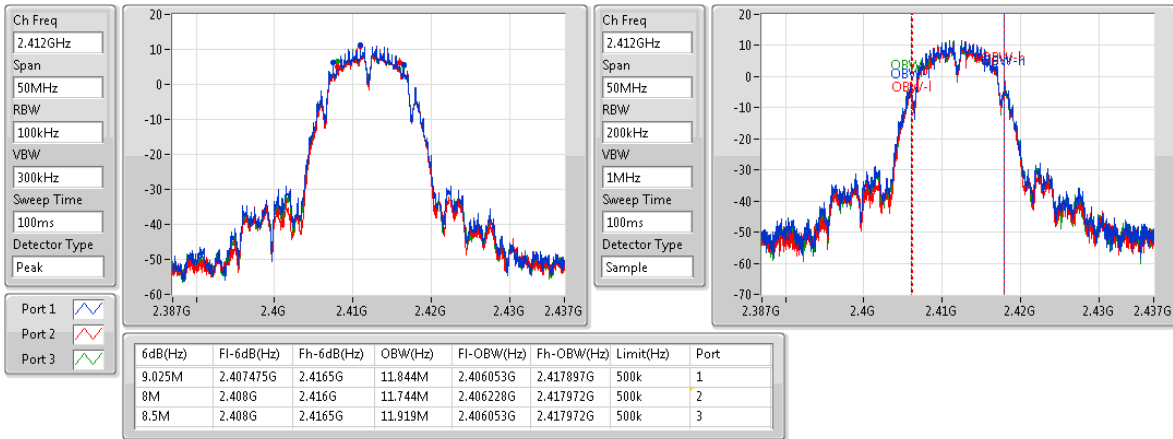
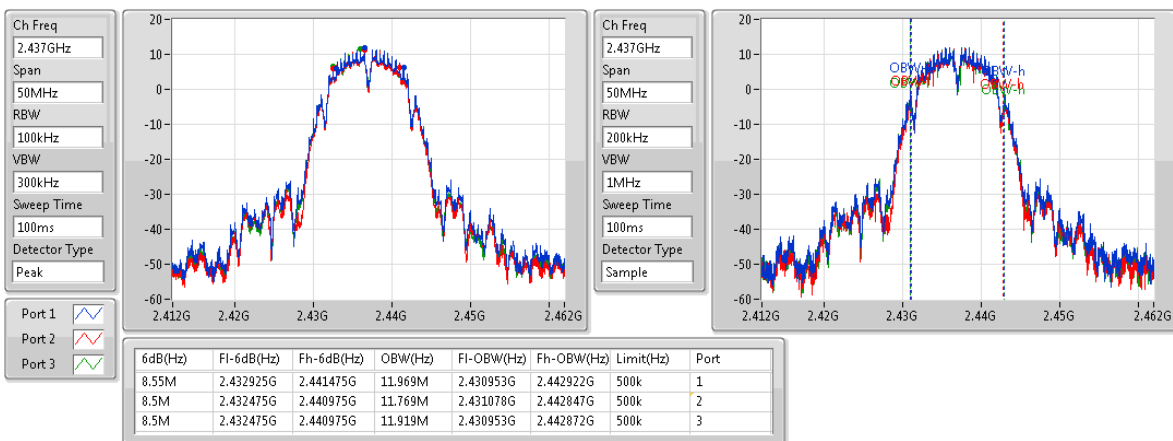
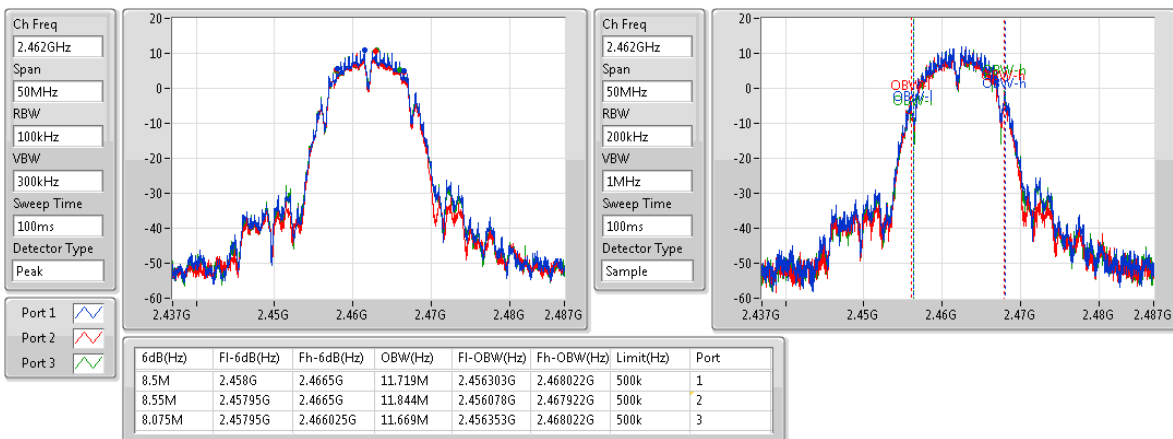
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

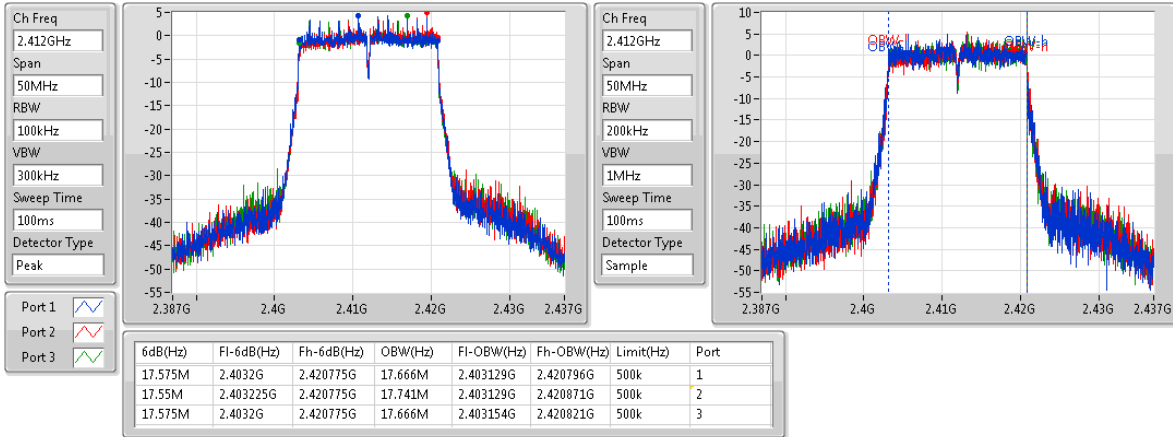
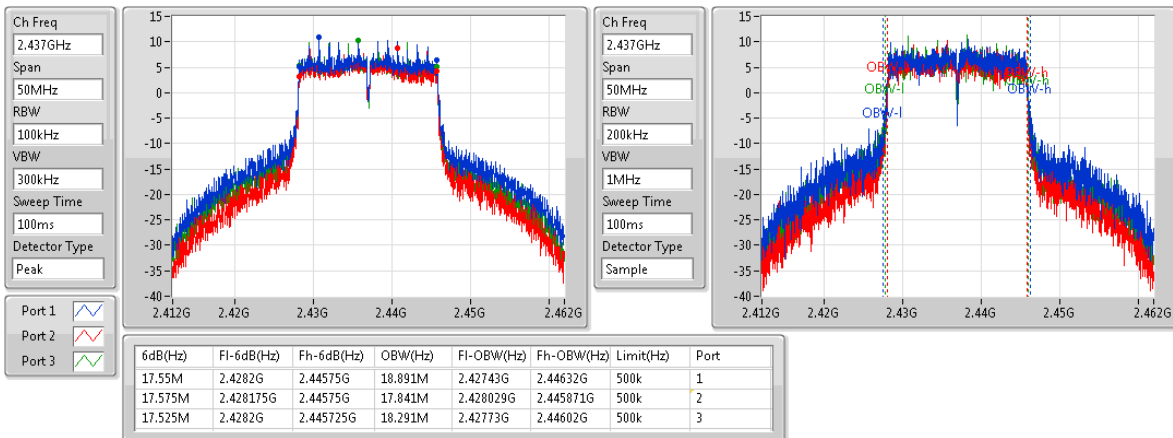
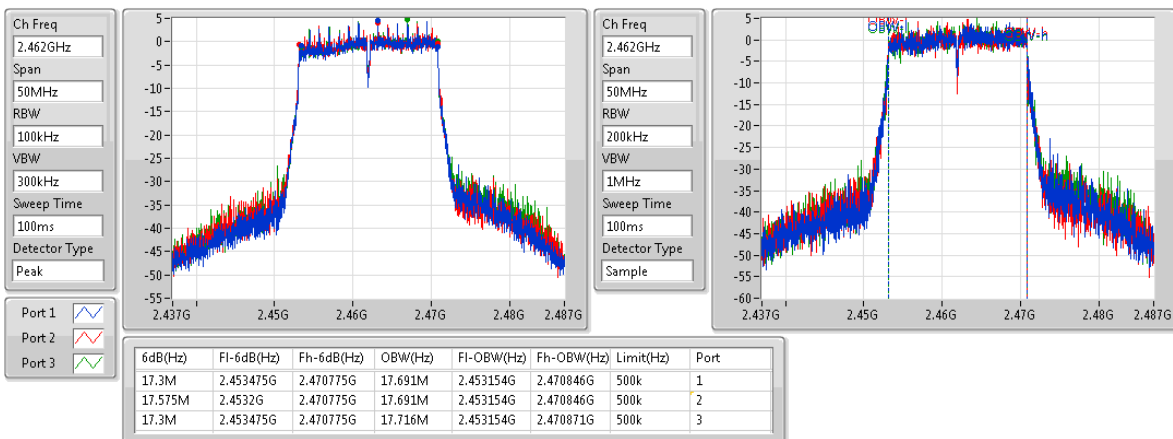
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

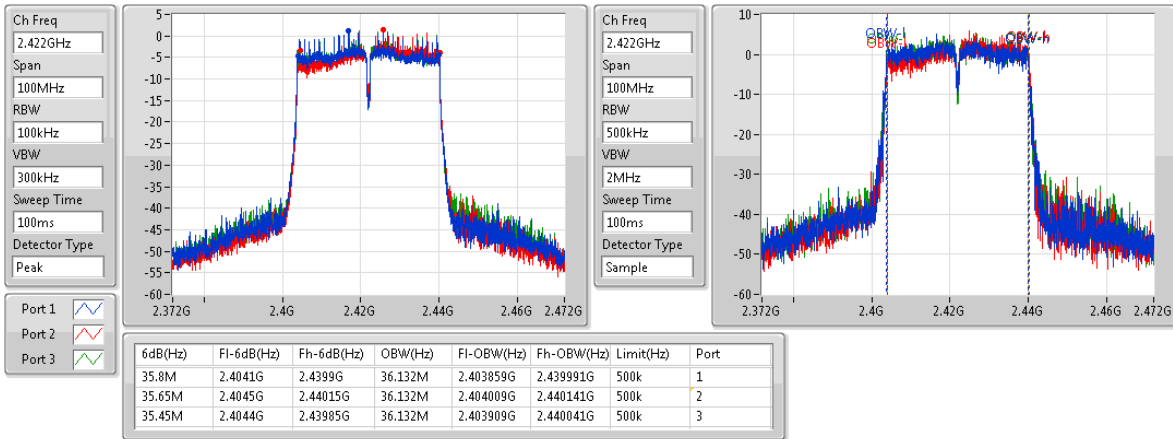
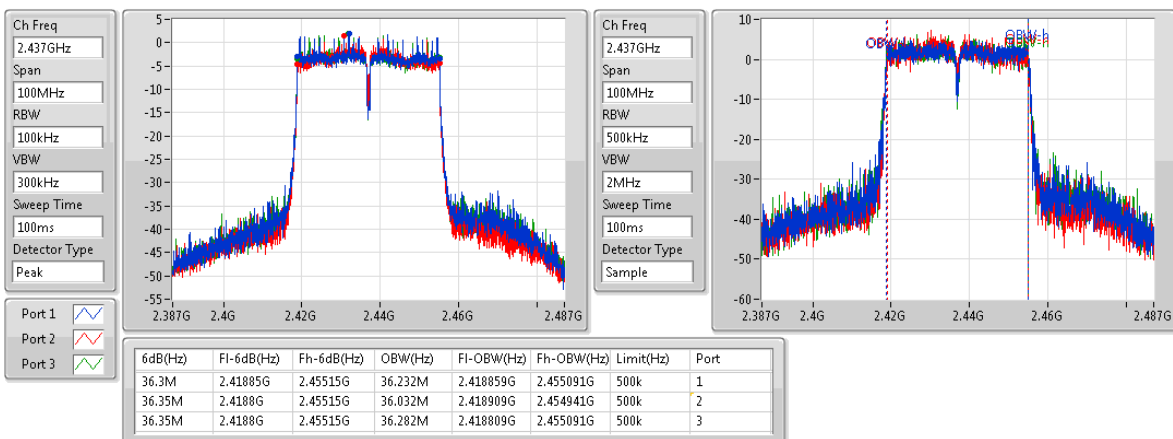
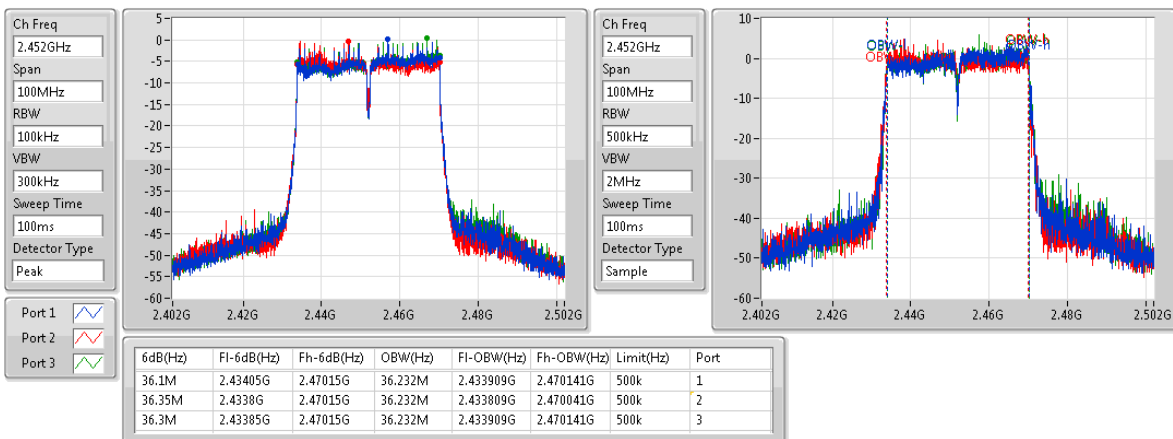
**Result**

| 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) |
|-----------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 802.11b_(1Mbps)_3TX               | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                           | Pass   | 500k          | 9.025M              | 11.844M            | 8M                  | 11.744M            | 8.5M                | 11.919M            |
| 2437MHz                           | Pass   | 500k          | 8.55M               | 11.969M            | 8.5M                | 11.769M            | 8.5M                | 11.919M            |
| 2462MHz                           | Pass   | 500k          | 8.5M                | 11.719M            | 8.55M               | 11.844M            | 8.075M              | 11.669M            |
| 802.11ac VHT20-BF_Nss1,(MCS0)_3TX | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                           | Pass   | 500k          | 17.575M             | 17.666M            | 17.55M              | 17.741M            | 17.575M             | 17.666M            |
| 2437MHz                           | Pass   | 500k          | 17.55M              | 18.891M            | 17.575M             | 17.841M            | 17.525M             | 18.291M            |
| 2462MHz                           | Pass   | 500k          | 17.3M               | 17.691M            | 17.575M             | 17.691M            | 17.3M               | 17.716M            |
| 802.11ac VHT40-BF_Nss1,(MCS0)_3TX | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  |
| 2422MHz                           | Pass   | 500k          | 35.8M               | 36.132M            | 35.65M              | 36.132M            | 35.45M              | 36.132M            |
| 2437MHz                           | Pass   | 500k          | 36.3M               | 36.232M            | 36.35M              | 36.032M            | 36.35M              | 36.282M            |
| 2452MHz                           | Pass   | 500k          | 36.1M               | 36.232M            | 36.35M              | 36.232M            | 36.3M               | 36.232M            |

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

**802.11b\_(1Mbps)\_3TX**
**EBW**
**2412MHz**

**802.11b\_(1Mbps)\_3TX**
**EBW**
**2437MHz**

**802.11b\_(1Mbps)\_3TX**
**EBW**
**2462MHz**


**802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX**
**EBW**
**2412MHz**

**802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX**
**EBW**
**2437MHz**

**802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX**
**EBW**
**2462MHz**


**802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX**
**EBW**
**2422MHz**

**802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX**
**EBW**
**2437MHz**

**802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX**
**EBW**
**2452MHz**


**For 1TX:  
Summary**

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) |
|--------------------------------|----------------------|--------------------|
| 802.11b_(1Mbps)_1TX            | -                    | -                  |
| 2.4-2.4835GHz                  | 21.68                | 0.14723            |
| 802.11g_(6Mbps)_1TX            | -                    | -                  |
| 2.4-2.4835GHz                  | 21.83                | 0.15241            |
| 802.11n HT20_Nss1,(MCS0)_1TX   | -                    | -                  |
| 2.4-2.4835GHz                  | 21.96                | 0.15704            |
| 802.11n HT40_Nss1,(MCS0)_1TX   | -                    | -                  |
| 2.4-2.4835GHz                  | 16.08                | 0.04055            |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -                    | -                  |
| 2.4-2.4835GHz                  | 21.97                | 0.15740            |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -                    | -                  |
| 2.4-2.4835GHz                  | 16.18                | 0.04150            |

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|----------------------|----------------------|
| 802.11b_(1Mbps)_1TX            | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 20.51           | 20.51                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 21.68           | 21.68                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 20.33           | 20.33                | 30.00                |
| 802.11g_(6Mbps)_1TX            | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 16.11           | 16.11                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 21.83           | 21.83                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 14.42           | 14.42                | 30.00                |
| 802.11n HT20_Nss1,(MCS0)_1TX   | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 16.18           | 16.18                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 21.96           | 21.96                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 14.57           | 14.57                | 30.00                |
| 802.11n HT40_Nss1,(MCS0)_1TX   | -      | -           | -               | -                    | -                    |
| 2422MHz                        | Pass   | 4.13        | 15.01           | 15.01                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 16.08           | 16.08                | 30.00                |
| 2452MHz                        | Pass   | 4.13        | 13.89           | 13.89                | 30.00                |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -      | -           | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 16.20           | 16.20                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 21.97           | 21.97                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 14.65           | 14.65                | 30.00                |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -      | -           | -               | -                    | -                    |
| 2422MHz                        | Pass   | 4.13        | 15.04           | 15.04                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 16.18           | 16.18                | 30.00                |
| 2452MHz                        | Pass   | 4.13        | 13.91           | 13.91                | 30.00                |

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

**For 2TX:  
Summary**

| Mode                              | Total Power<br>(dBm) | Total Power<br>(W) |
|-----------------------------------|----------------------|--------------------|
| 802.11b_(1Mbps)_2TX               | -                    | -                  |
| 2.4-2.4835GHz                     | 23.76                | 0.23768            |
| 802.11g_(6Mbps)_2TX               | -                    | -                  |
| 2.4-2.4835GHz                     | 24.88                | 0.30761            |
| 802.11n HT20_Nss1,(MCS0)_2TX      | -                    | -                  |
| 2.4-2.4835GHz                     | 24.88                | 0.30761            |
| 802.11n HT40_Nss1,(MCS0)_2TX      | -                    | -                  |
| 2.4-2.4835GHz                     | 18.78                | 0.07551            |
| 802.11ac VHT20_Nss1,(MCS0)_2TX    | -                    | -                  |
| 2.4-2.4835GHz                     | 24.88                | 0.30761            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX    | -                    | -                  |
| 2.4-2.4835GHz                     | 18.78                | 0.07551            |
| 802.11g-BF_(6Mbps)_2TX            | -                    | -                  |
| 2.4-2.4835GHz                     | 24.88                | 0.30761            |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX   | -                    | -                  |
| 2.4-2.4835GHz                     | 24.88                | 0.30761            |
| 802.11ac VHT20-BF_Nss1,(MCS0)_2TX | -                    | -                  |
| 2.4-2.4835GHz                     | 24.88                | 0.30761            |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX   | -                    | -                  |
| 2.4-2.4835GHz                     | 18.78                | 0.07551            |
| 802.11ac VHT40-BF_Nss1,(MCS0)_2TX | -                    | -                  |
| 2.4-2.4835GHz                     | 18.78                | 0.07551            |

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|
| 802.11b_(1Mbps)_2TX            | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 20.54           | 20.12           | 23.35                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 20.93           | 20.56           | 23.76                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 20.17           | 19.62           | 22.91                | 30.00                |
| 802.11g_(6Mbps)_2TX            | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 16.51           | 16.45           | 19.49                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 21.93           | 21.81           | 24.88                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 16.6            | 16.74           | 19.68                | 30.00                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 16.51           | 16.45           | 19.49                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 21.93           | 21.81           | 24.88                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 16.6            | 16.74           | 19.68                | 30.00                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    |
| 2422MHz                        | Pass   | 4.13        | 15.43           | 15.24           | 18.35                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 15.87           | 15.66           | 18.78                | 30.00                |
| 2452MHz                        | Pass   | 4.13        | 14.13           | 14.16           | 17.16                | 30.00                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 16.51           | 16.45           | 19.49                | 30.00                |

| Mode                              | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|-----------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|
| 2437MHz                           | Pass   | 4.13        | 21.93           | 21.81           | 24.88                | 30.00                |
| 2462MHz                           | Pass   | 4.13        | 16.6            | 16.74           | 19.68                | 30.00                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX    | -      | -           | -               | -               | -                    | -                    |
| 2422MHz                           | Pass   | 4.13        | 15.43           | 15.24           | 18.35                | 30.00                |
| 2437MHz                           | Pass   | 4.13        | 15.87           | 15.66           | 18.78                | 30.00                |
| 2452MHz                           | Pass   | 4.13        | 14.13           | 14.16           | 17.16                | 30.00                |
| 802.11g-BF_(6Mbps)_2TX            | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                           | Pass   | 7.14        | 16.51           | 16.45           | 19.49                | 28.86                |
| 2437MHz                           | Pass   | 7.14        | 21.93           | 21.81           | 24.88                | 28.86                |
| 2462MHz                           | Pass   | 7.14        | 16.6            | 16.74           | 19.68                | 28.86                |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                           | Pass   | 7.14        | 16.51           | 16.45           | 19.49                | 28.86                |
| 2437MHz                           | Pass   | 7.14        | 21.93           | 21.81           | 24.88                | 28.86                |
| 2462MHz                           | Pass   | 7.14        | 16.6            | 16.74           | 19.68                | 28.86                |
| 802.11ac VHT20-BF_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                           | Pass   | 7.14        | 16.51           | 16.45           | 19.49                | 28.86                |
| 2437MHz                           | Pass   | 7.14        | 21.93           | 21.81           | 24.88                | 28.86                |
| 2462MHz                           | Pass   | 7.14        | 16.6            | 16.74           | 19.68                | 28.86                |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    |
| 2422MHz                           | Pass   | 7.14        | 15.43           | 15.24           | 18.35                | 28.86                |
| 2437MHz                           | Pass   | 7.14        | 15.87           | 15.66           | 18.78                | 28.86                |
| 2452MHz                           | Pass   | 7.14        | 14.13           | 14.16           | 17.16                | 28.86                |
| 802.11ac VHT40-BF_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    |
| 2422MHz                           | Pass   | 7.14        | 15.43           | 15.24           | 18.35                | 28.86                |
| 2437MHz                           | Pass   | 7.14        | 15.87           | 15.66           | 18.78                | 28.86                |
| 2452MHz                           | Pass   | 7.14        | 14.13           | 14.16           | 17.16                | 28.86                |

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

**For 3TX:  
Summary**

| Mode                              | Total Power<br>(dBm) | Total Power<br>(W) |
|-----------------------------------|----------------------|--------------------|
| 802.11b_(1Mbps)_3TX               | -                    | -                  |
| 2.4-2.4835GHz                     | 25.22                | 0.33266            |
| 802.11g_(6Mbps)_3TX               | -                    | -                  |
| 2.4-2.4835GHz                     | 26.30                | 0.42658            |
| 802.11n HT20_Nss1,(MCS0)_3TX      | -                    | -                  |
| 2.4-2.4835GHz                     | 26.30                | 0.42658            |
| 802.11ac VHT20_Nss1,(MCS0)_3TX    | -                    | -                  |
| 2.4-2.4835GHz                     | 26.30                | 0.42658            |
| 802.11n HT40_Nss1,(MCS0)_3TX      | -                    | -                  |
| 2.4-2.4835GHz                     | 20.97                | 0.12503            |
| 802.11ac VHT40_Nss1,(MCS0)_3TX    | -                    | -                  |
| 2.4-2.4835GHz                     | 20.97                | 0.12503            |
| 802.11g-BF_(6Mbps)_3TX            | -                    | -                  |
| 2.4-2.4835GHz                     | 26.30                | 0.42658            |
| 802.11n HT20-BF_Nss1,(MCS0)_3TX   | -                    | -                  |
| 2.4-2.4835GHz                     | 26.30                | 0.42658            |
| 802.11ac VHT20-BF_Nss1,(MCS0)_3TX | -                    | -                  |
| 2.4-2.4835GHz                     | 26.30                | 0.42658            |
| 802.11n HT40-BF_Nss1,(MCS0)_3TX   | -                    | -                  |
| 2.4-2.4835GHz                     | 20.97                | 0.12503            |
| 802.11ac VHT40-BF_Nss1,(MCS0)_3TX | -                    | -                  |
| 2.4-2.4835GHz                     | 20.97                | 0.12503            |

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 802.11b_(1Mbps)_3TX            | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 20.15           | 19.63           | 20.08           | 24.73                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 20.74           | 20.23           | 20.37           | 25.22                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 20.22           | 19.6            | 19.95           | 24.70                | 30.00                |
| 802.11g_(6Mbps)_3TX            | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 16.11           | 15.82           | 16.03           | 20.76                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 21.99           | 21              | 21.53           | 26.30                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 16.03           | 16.15           | 16.27           | 20.92                | 30.00                |
| 802.11n HT20_Nss1,(MCS0)_3TX   | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 16.11           | 15.82           | 16.03           | 20.76                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 21.99           | 21              | 21.53           | 26.30                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 16.03           | 16.15           | 16.27           | 20.92                | 30.00                |
| 802.11ac VHT20_Nss1,(MCS0)_3TX | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                        | Pass   | 4.13        | 16.11           | 15.82           | 16.03           | 20.76                | 30.00                |
| 2437MHz                        | Pass   | 4.13        | 21.99           | 21              | 21.53           | 26.30                | 30.00                |
| 2462MHz                        | Pass   | 4.13        | 16.03           | 16.15           | 16.27           | 20.92                | 30.00                |
| 802.11n HT40_Nss1,(MCS0)_3TX   | -      | -           | -               | -               | -               | -                    | -                    |
| 2422MHz                        | Pass   | 4.13        | 15.04           | 14.64           | 14.99           | 19.66                | 30.00                |

| Mode                              | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|-----------------------------------|--------|-------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 2437MHz                           | Pass   | 4.13        | 16.27           | 16.11           | 16.2            | 20.97                | 30.00                |
| 2452MHz                           | Pass   | 4.13        | 14.11           | 14.09           | 14.02           | 18.84                | 30.00                |
| 802.11ac VHT40_Nss1,(MCS0)_3TX    | -      | -           | -               | -               | -               | -                    | -                    |
| 2422MHz                           | Pass   | 4.13        | 15.04           | 14.64           | 14.99           | 19.66                | 30.00                |
| 2437MHz                           | Pass   | 4.13        | 16.27           | 16.11           | 16.2            | 20.97                | 30.00                |
| 2452MHz                           | Pass   | 4.13        | 14.11           | 14.09           | 14.02           | 18.84                | 30.00                |
| 802.11g-BF_(6Mbps)_3TX            | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                           | Pass   | 8.90        | 16.11           | 15.82           | 16.03           | 20.76                | 27.10                |
| 2437MHz                           | Pass   | 8.90        | 21.99           | 21              | 21.53           | 26.30                | 27.10                |
| 2462MHz                           | Pass   | 8.90        | 16.03           | 16.15           | 16.27           | 20.92                | 27.10                |
| 802.11n HT20-BF_Nss1,(MCS0)_3TX   | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                           | Pass   | 8.90        | 16.11           | 15.82           | 16.03           | 20.76                | 27.10                |
| 2437MHz                           | Pass   | 8.90        | 21.99           | 21              | 21.53           | 26.30                | 27.10                |
| 2462MHz                           | Pass   | 8.90        | 16.03           | 16.15           | 16.27           | 20.92                | 27.10                |
| 802.11ac VHT20-BF_Nss1,(MCS0)_3TX | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                           | Pass   | 8.90        | 16.11           | 15.82           | 16.03           | 20.76                | 27.10                |
| 2437MHz                           | Pass   | 8.90        | 21.99           | 21              | 21.53           | 26.30                | 27.10                |
| 2462MHz                           | Pass   | 8.90        | 16.03           | 16.15           | 16.27           | 20.92                | 27.10                |
| 802.11n HT40-BF_Nss1,(MCS0)_3TX   | -      | -           | -               | -               | -               | -                    | -                    |
| 2422MHz                           | Pass   | 8.90        | 15.04           | 14.64           | 14.99           | 19.66                | 27.10                |
| 2437MHz                           | Pass   | 8.90        | 16.27           | 16.11           | 16.2            | 20.97                | 27.10                |
| 2452MHz                           | Pass   | 8.90        | 14.11           | 14.09           | 14.02           | 18.84                | 27.10                |
| 802.11ac VHT40-BF_Nss1,(MCS0)_3TX | -      | -           | -               | -               | -               | -                    | -                    |
| 2422MHz                           | Pass   | 8.90        | 15.04           | 14.64           | 14.99           | 19.66                | 27.10                |
| 2437MHz                           | Pass   | 8.90        | 16.27           | 16.11           | 16.2            | 20.97                | 27.10                |
| 2452MHz                           | Pass   | 8.90        | 14.11           | 14.09           | 14.02           | 18.84                | 27.10                |

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

**For 1TX:  
Summary**

| Mode                           | PD<br>(dBm/RBW) |
|--------------------------------|-----------------|
| 802.11b_(1Mbps)_1TX            | -               |
| 2.4-2.4835GHz                  | -1.22           |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -               |
| 2.4-2.4835GHz                  | -4.90           |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -               |
| 2.4-2.4835GHz                  | -12.79          |

RBW=3kHz.

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|-----------------|-----------------------|
| 802.11b_(1Mbps)_1TX            | -      | -           | -                   | -               | -                     |
| 2412MHz                        | Pass   | 4.13        | -1.80               | -1.80           | 8.00                  |
| 2437MHz                        | Pass   | 4.13        | -1.22               | -1.22           | 8.00                  |
| 2462MHz                        | Pass   | 4.13        | -3.31               | -3.31           | 8.00                  |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     |
| 2412MHz                        | Pass   | 4.13        | -9.22               | -9.22           | 8.00                  |
| 2437MHz                        | Pass   | 4.13        | -4.90               | -4.90           | 8.00                  |
| 2462MHz                        | Pass   | 4.13        | -11.05              | -11.05          | 8.00                  |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     |
| 2422MHz                        | Pass   | 4.13        | -13.24              | -13.24          | 8.00                  |
| 2437MHz                        | Pass   | 4.13        | -12.79              | -12.79          | 8.00                  |
| 2452MHz                        | Pass   | 4.13        | -15.30              | -15.30          | 8.00                  |

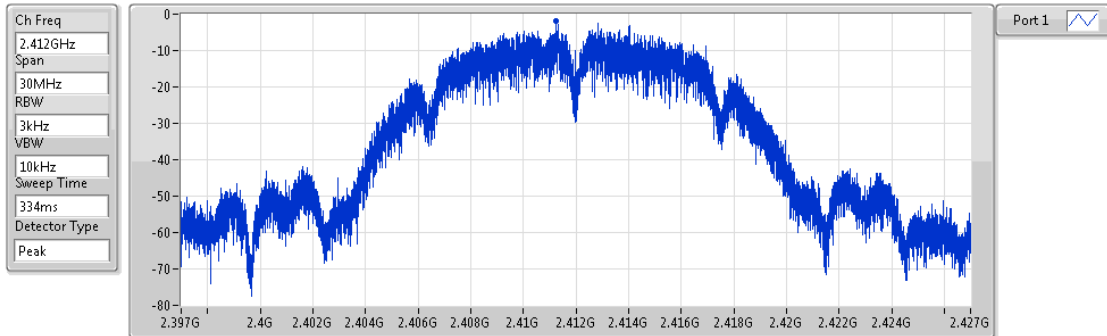
**DG** = Directional Gain; RBW=3kHz;

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

### 802.11b\_(1Mbps)\_1TX

PSD

2412MHz

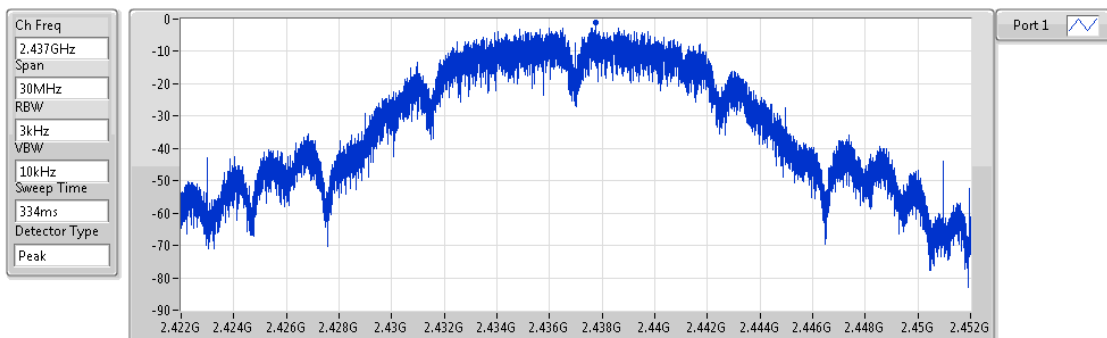


| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.80     | -1.80     | -1.80     |

### 802.11b\_(1Mbps)\_1TX

PSD

2437MHz

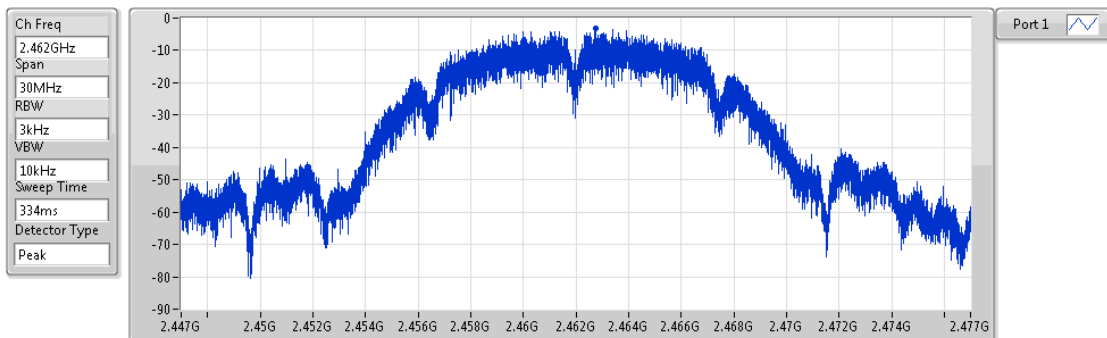


| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.22     | -1.22     | -1.22     |

### 802.11b\_(1Mbps)\_1TX

PSD

2462MHz

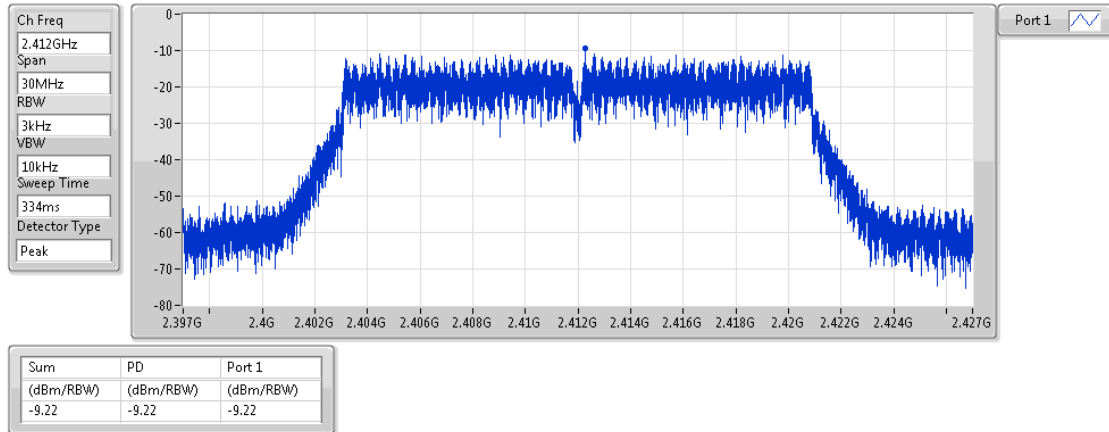


| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.31     | -3.31     | -3.31     |

### 802.11ac VHT20\_Nss1,(MCS0)\_1TX

PSD

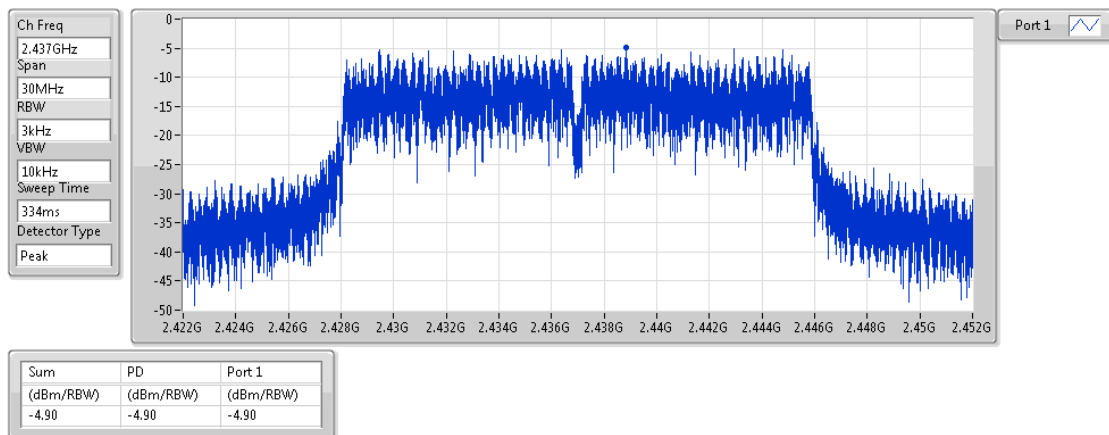
2412MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_1TX

PSD

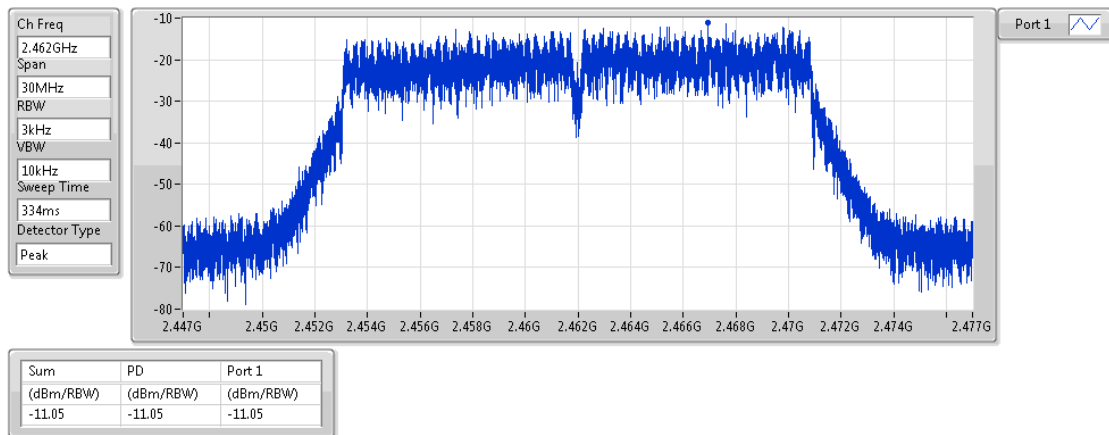
2437MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_1TX

PSD

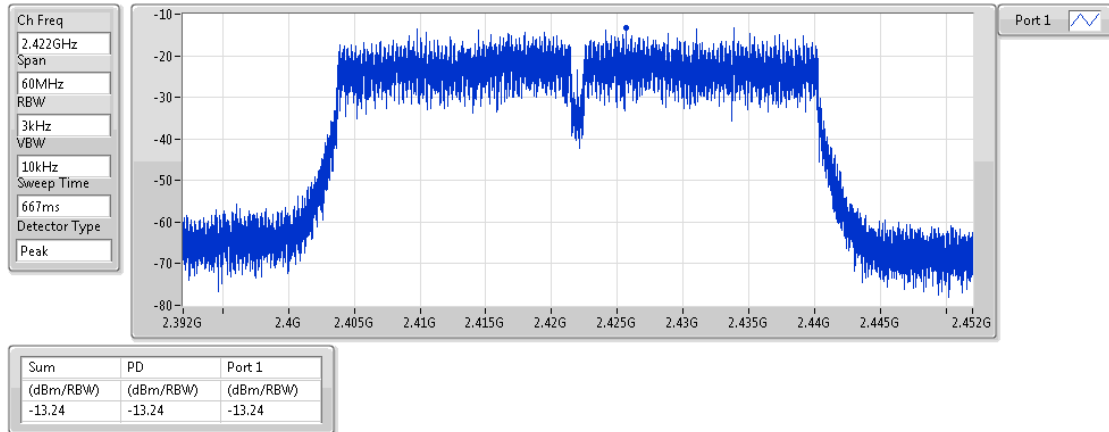
2462MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_1TX

PSD

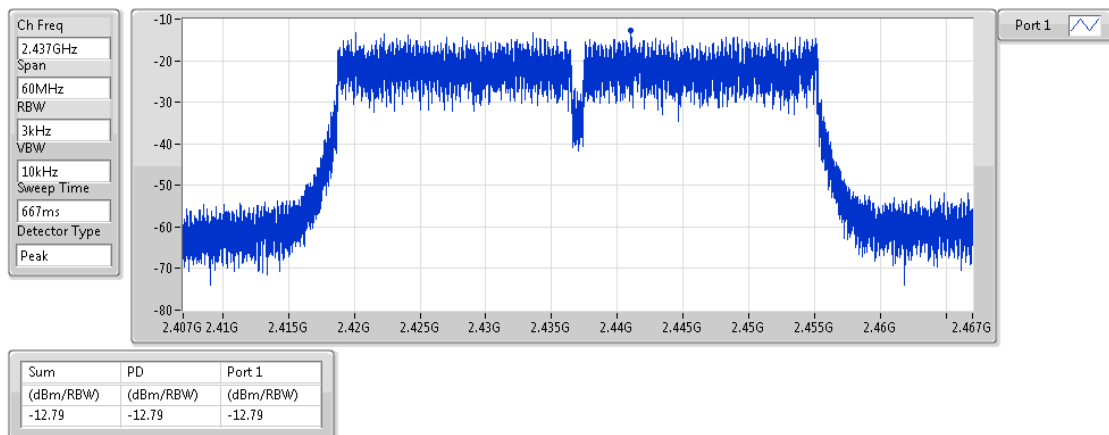
2422MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_1TX

PSD

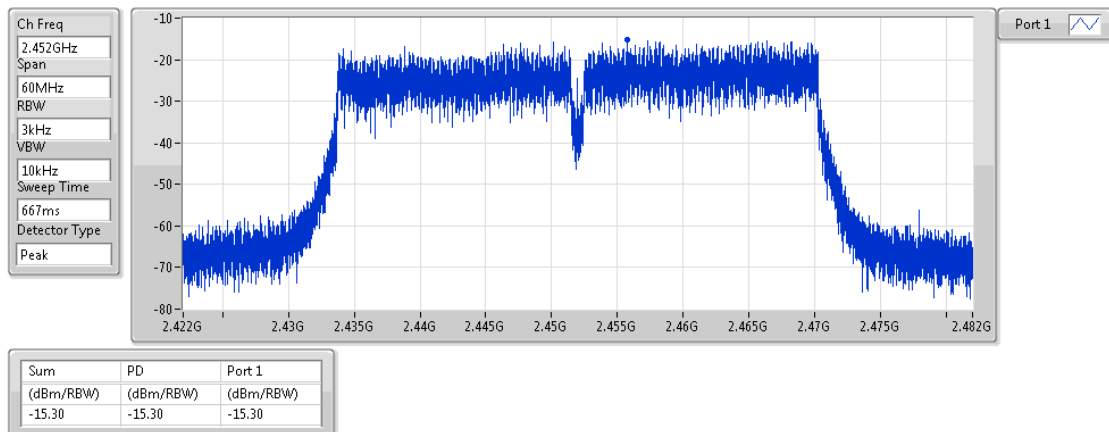
2437MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_1TX

PSD

2452MHz



**For 2TX:  
Summary**

| Mode                              | PD<br>(dBm/RBW) |
|-----------------------------------|-----------------|
| 802.11b_(1Mbps)_2TX               | -               |
| 2.4-2.4835GHz                     | -1.17           |
| 802.11ac VHT20-BF_Nss1,(MCS0)_2TX | -               |
| 2.4-2.4835GHz                     | -3.27           |
| 802.11ac VHT40-BF_Nss1,(MCS0)_2TX | -               |
| 2.4-2.4835GHz                     | -11.28          |

RBW=3kHz.

**Result**

| Mode                              | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|-----------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11b_(1Mbps)_2TX               | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                           | Pass   | 7.14        | -2.39               | -2.45               | -1.17           | 6.86                  |
| 2437MHz                           | Pass   | 7.14        | -3.13               | -3.77               | -2.02           | 6.86                  |
| 2462MHz                           | Pass   | 7.14        | -2.82               | -4.08               | -2.24           | 6.86                  |
| 802.11ac VHT20-BF_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                           | Pass   | 7.14        | -9.29               | -9.78               | -7.78           | 6.86                  |
| 2437MHz                           | Pass   | 7.14        | -4.09               | -4.55               | -3.27           | 6.86                  |
| 2462MHz                           | Pass   | 7.14        | -9.64               | -9.21               | -7.72           | 6.86                  |
| 802.11ac VHT40-BF_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2422MHz                           | Pass   | 7.14        | -13.44              | -13.45              | -11.65          | 6.86                  |
| 2437MHz                           | Pass   | 7.14        | -13.04              | -12.05              | -11.28          | 6.86                  |
| 2452MHz                           | Pass   | 7.14        | -13.84              | -15.36              | -13.21          | 6.86                  |

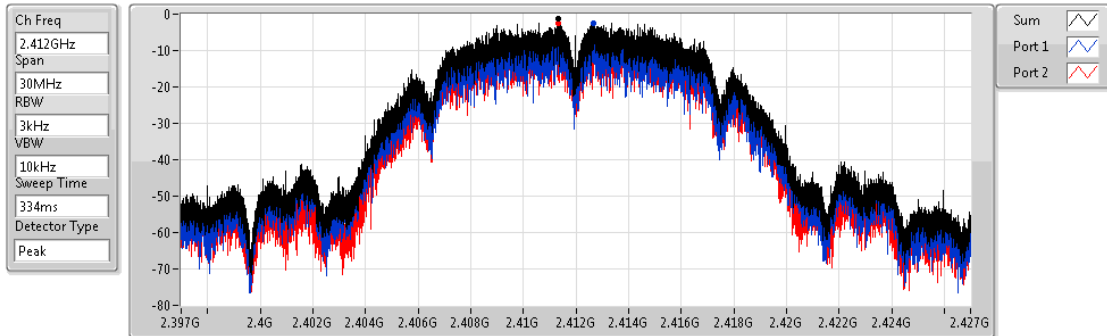
**DG** = Directional Gain; RBW=3kHz;

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

### 802.11b\_(1Mbps)\_2TX

PSD

2412MHz

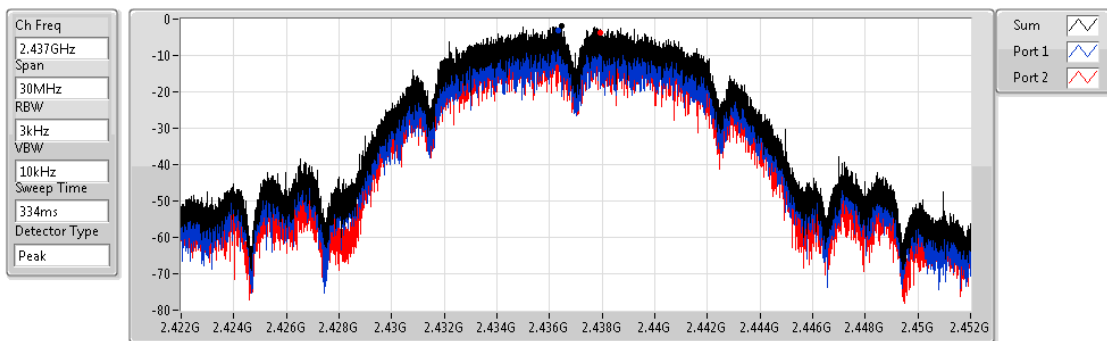


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.17     | -1.17     | -2.39     | -2.45     |

### 802.11b\_(1Mbps)\_2TX

PSD

2437MHz

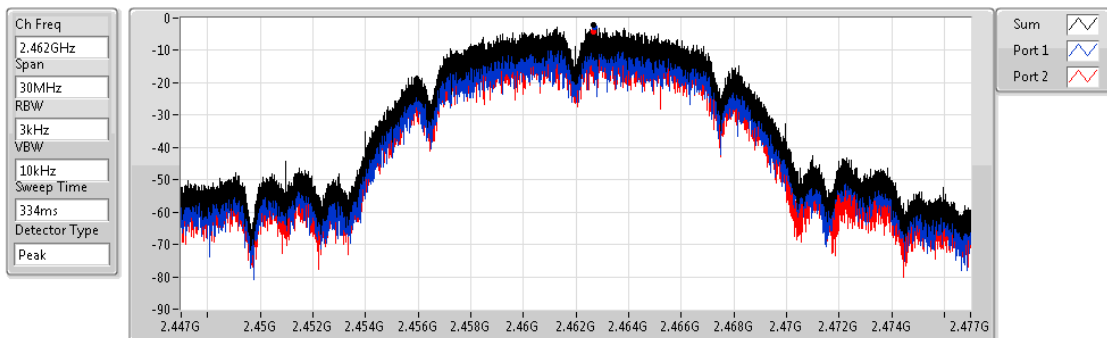


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.02     | -2.02     | -3.13     | -3.77     |

### 802.11b\_(1Mbps)\_2TX

PSD

2462MHz

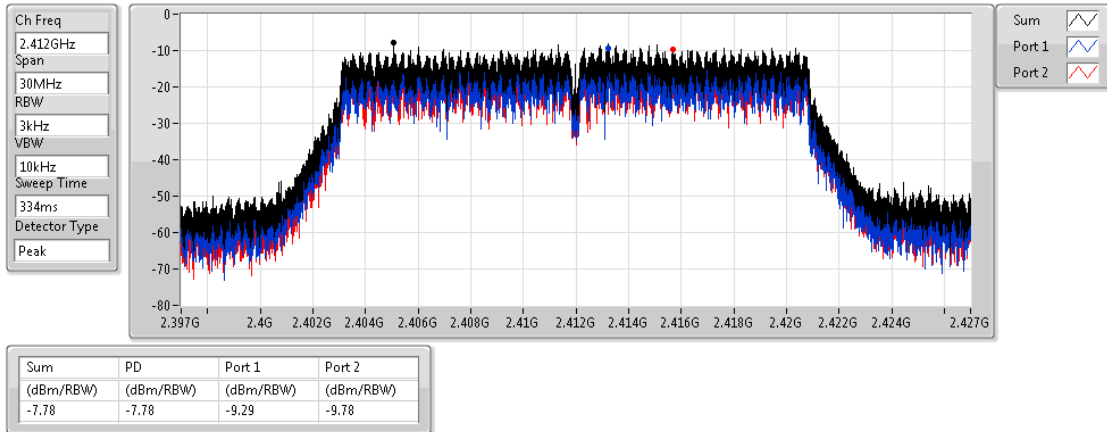


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.24     | -2.24     | -2.82     | -4.08     |

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

PSD

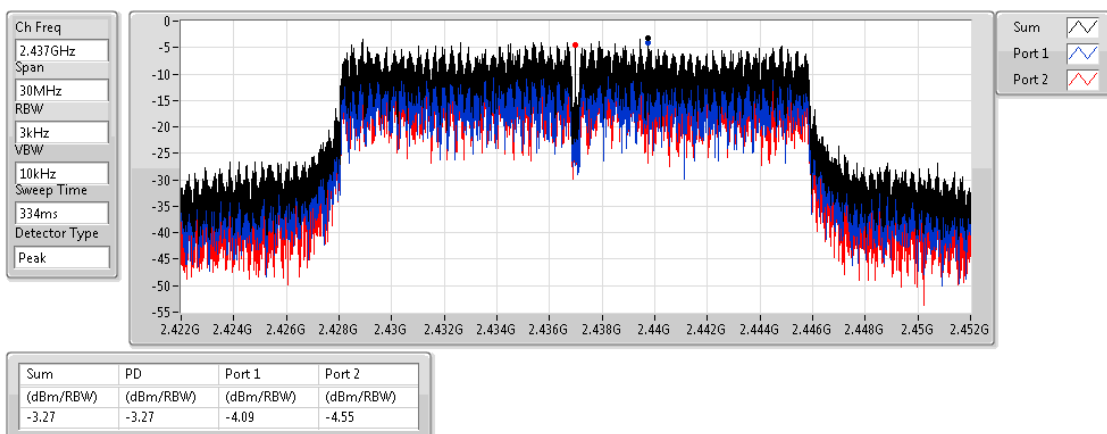
2412MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

PSD

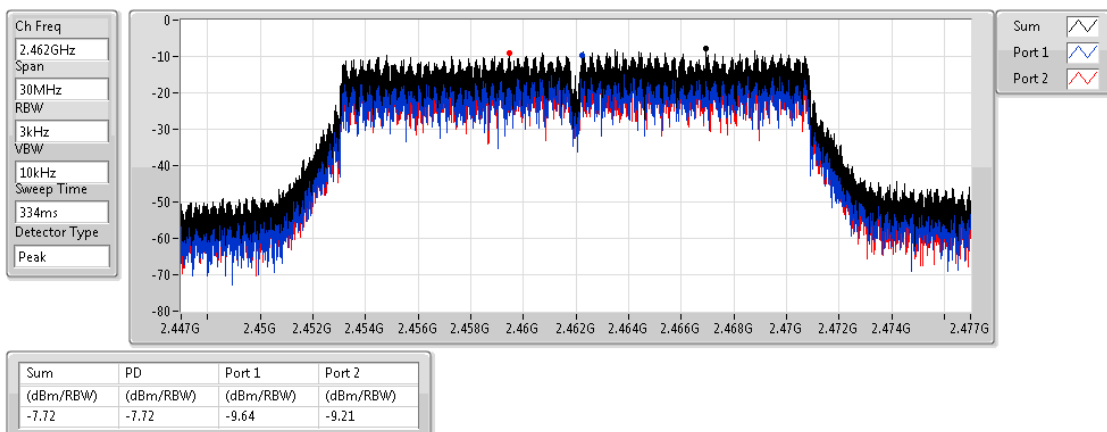
2437MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

PSD

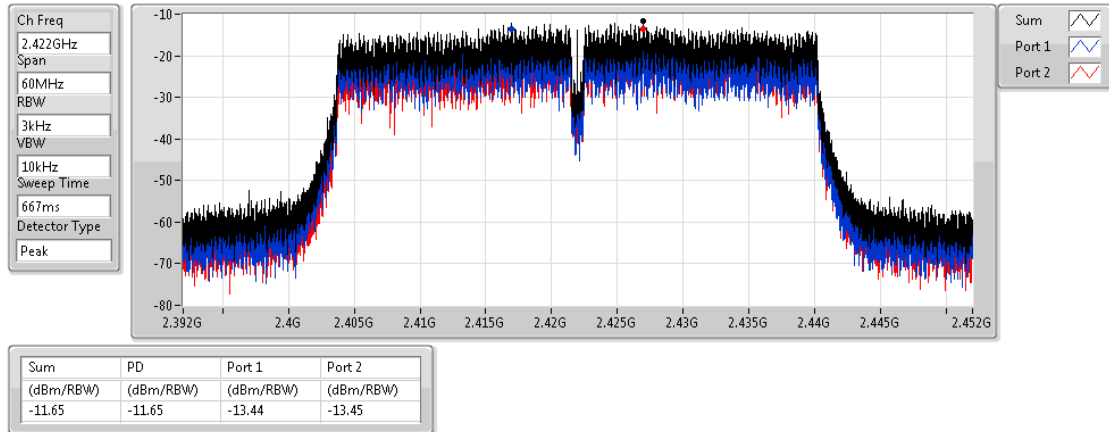
2462MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

PSD

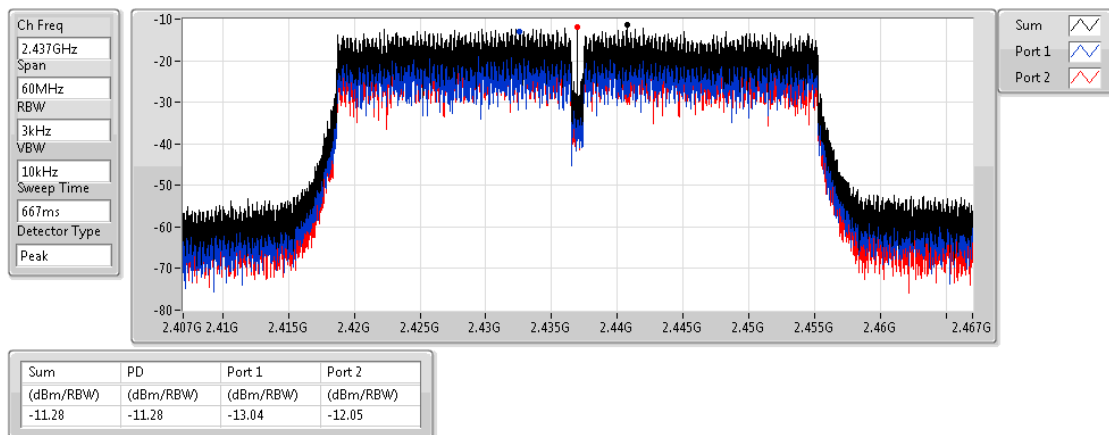
2422MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

PSD

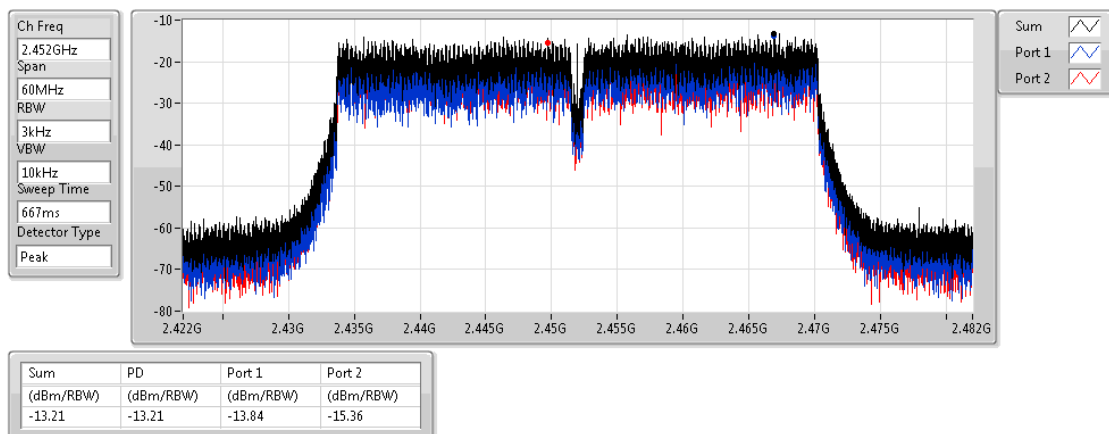
2437MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

PSD

2452MHz



**For 3TX:  
Summary**

| Mode                              | PD<br>(dBm/RBW) |
|-----------------------------------|-----------------|
| 802.11b_(1Mbps)_3TX               | -               |
| 2.4-2.4835GHz                     | -0.53           |
| 802.11ac VHT20-BF_Nss1,(MCS0)_3TX | -               |
| 2.4-2.4835GHz                     | -0.43           |
| 802.11ac VHT40-BF_Nss1,(MCS0)_3TX | -               |
| 2.4-2.4835GHz                     | -10.35          |

RBW=3kHz.

**Result**

| Mode                              | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | Port 3<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|-----------------------------------|--------|-------------|---------------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11b_(1Mbps)_3TX               | -      | -           | -                   | -                   | -                   | -               | -                     |
| 2412MHz                           | Pass   | 8.90        | -3.35               | -4.06               | -3.04               | -1.14           | 5.10                  |
| 2437MHz                           | Pass   | 8.90        | -3.40               | -3.58               | -3.39               | -0.63           | 5.10                  |
| 2462MHz                           | Pass   | 8.90        | -3.61               | -4.33               | -2.87               | -0.53           | 5.10                  |
| 802.11ac VHT20-BF_Nss1,(MCS0)_3TX | -      | -           | -                   | -                   | -                   | -               | -                     |
| 2412MHz                           | Pass   | 8.90        | -10.10              | -9.55               | -9.88               | -7.56           | 5.10                  |
| 2437MHz                           | Pass   | 8.90        | -3.00               | -5.10               | -5.55               | -0.43           | 5.10                  |
| 2462MHz                           | Pass   | 8.90        | -10.31              | -10.42              | -10.23              | -7.48           | 5.10                  |
| 802.11ac VHT40-BF_Nss1,(MCS0)_3TX | -      | -           | -                   | -                   | -                   | -               | -                     |
| 2422MHz                           | Pass   | 8.90        | -13.98              | -13.03              | -13.54              | -10.58          | 5.10                  |
| 2437MHz                           | Pass   | 8.90        | -12.85              | -11.16              | -12.96              | -10.35          | 5.10                  |
| 2452MHz                           | Pass   | 8.90        | -13.07              | -13.81              | -15.34              | -11.09          | 5.10                  |

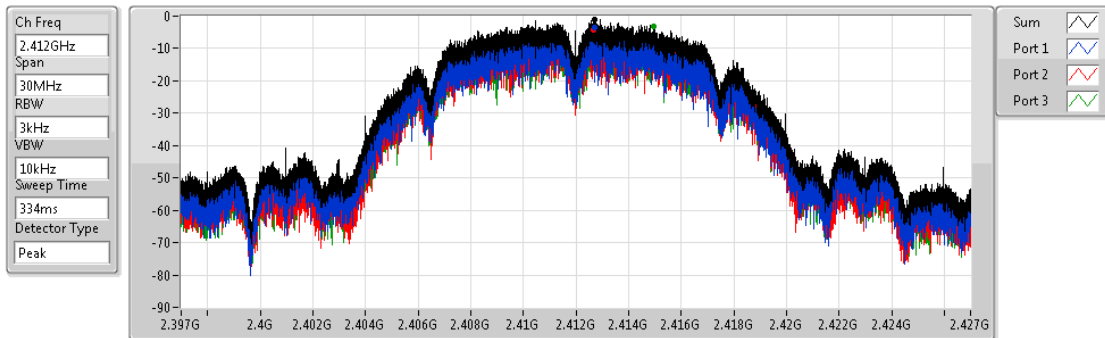
**DG** = Directional Gain; RBW=3kHz;

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

### 802.11b\_(1Mbps)\_3TX

PSD

2412MHz

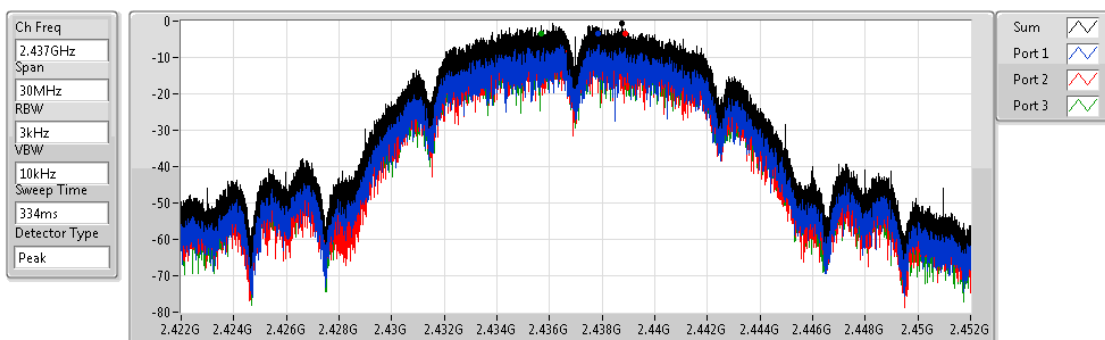


| Sum       | PD        | Port 1    | Port 2    | Port 3    |
|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.14     | -1.14     | -3.35     | -4.06     | -3.04     |

### 802.11b\_(1Mbps)\_3TX

PSD

2437MHz

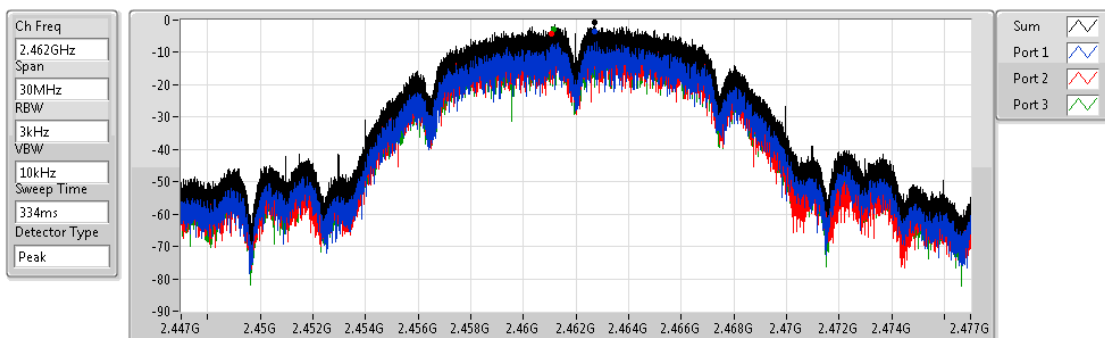


| Sum       | PD        | Port 1    | Port 2    | Port 3    |
|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.63     | -0.63     | -3.40     | -3.58     | -3.39     |

### 802.11b\_(1Mbps)\_3TX

PSD

2462MHz

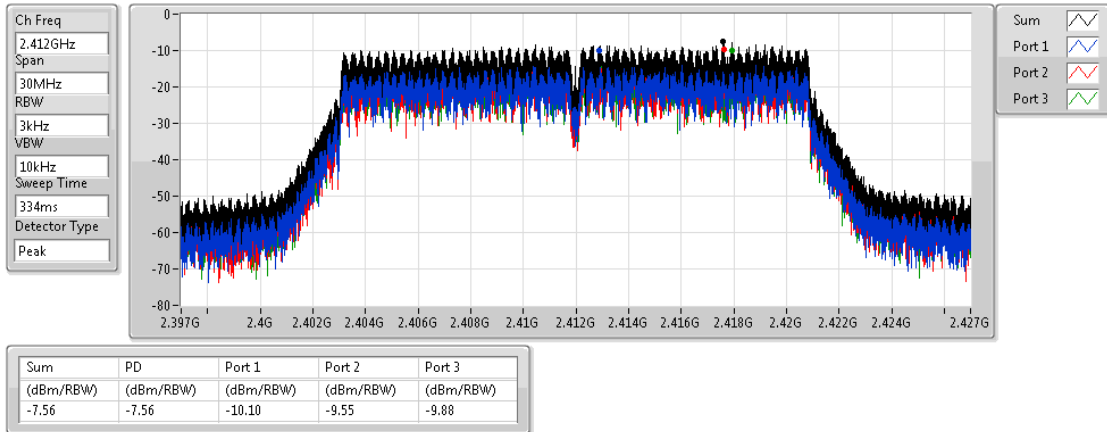


| Sum       | PD        | Port 1    | Port 2    | Port 3    |
|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.53     | -0.53     | -3.61     | -4.33     | -2.87     |

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

PSD

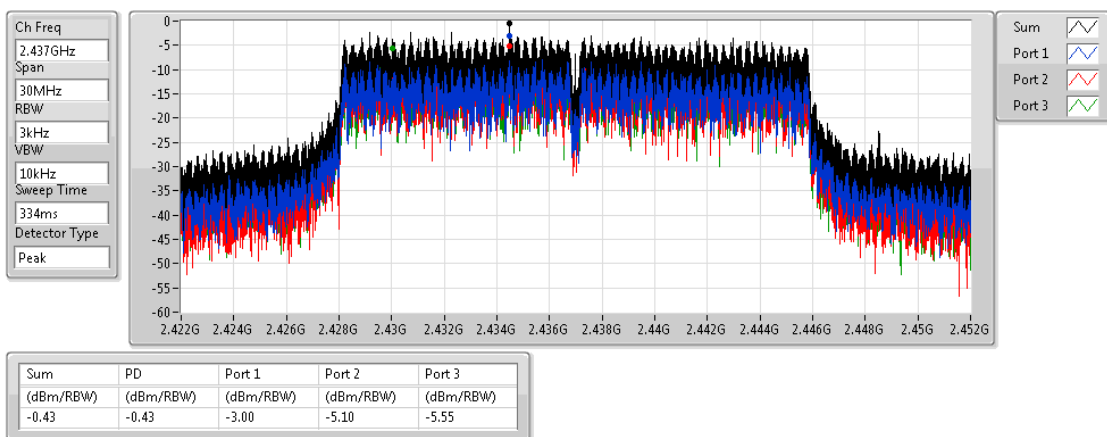
2412MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

PSD

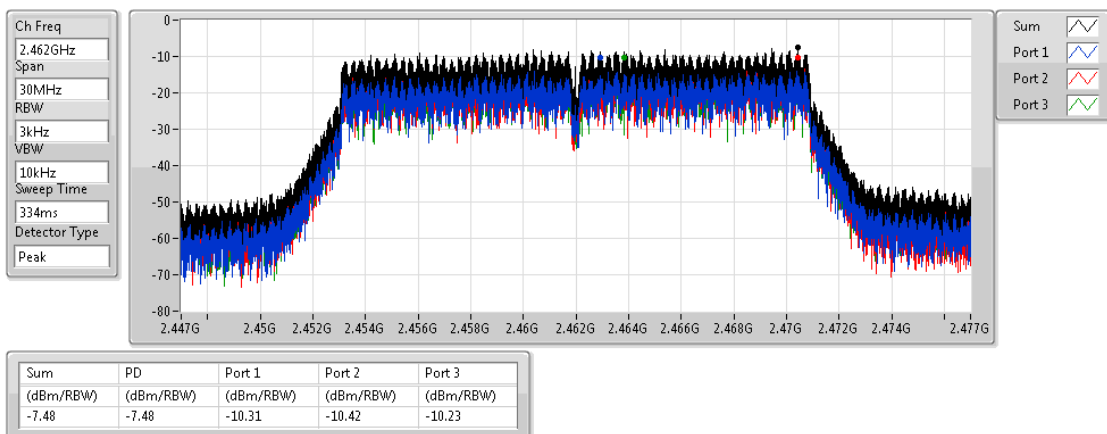
2437MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

PSD

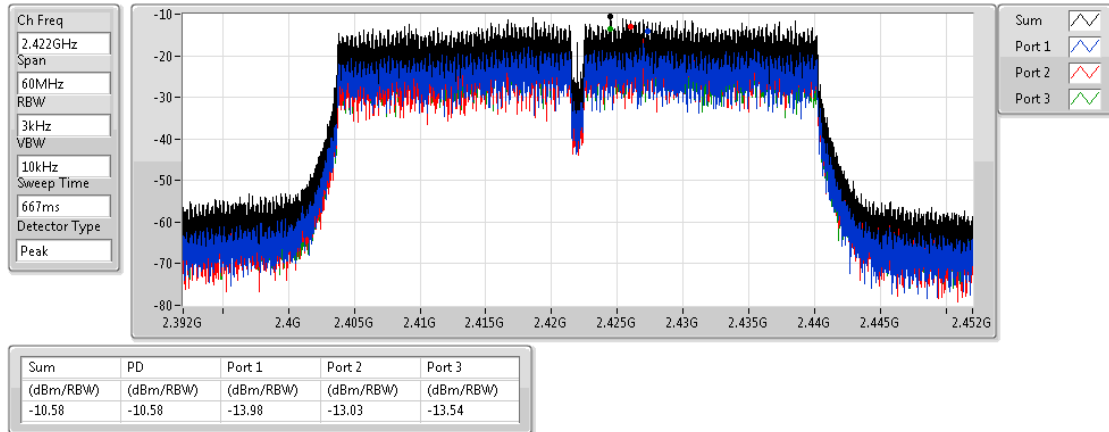
2462MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

PSD

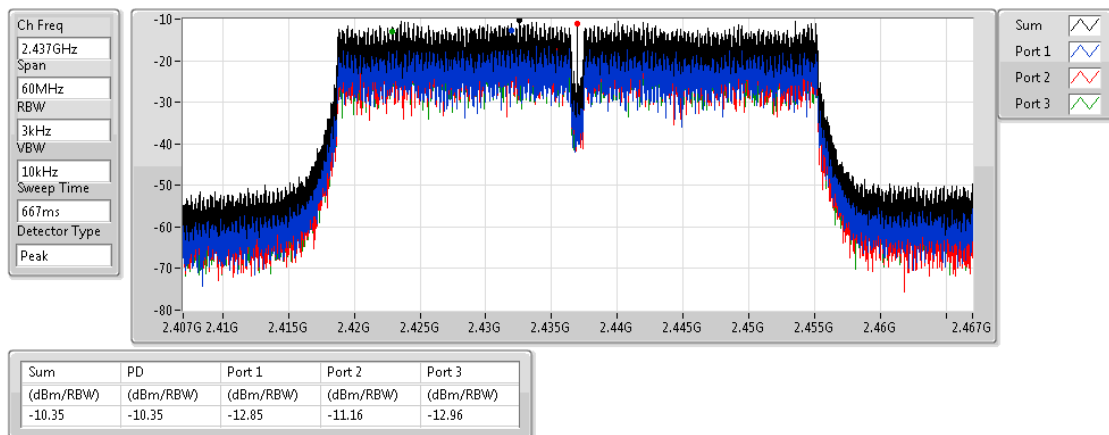
2422MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

PSD

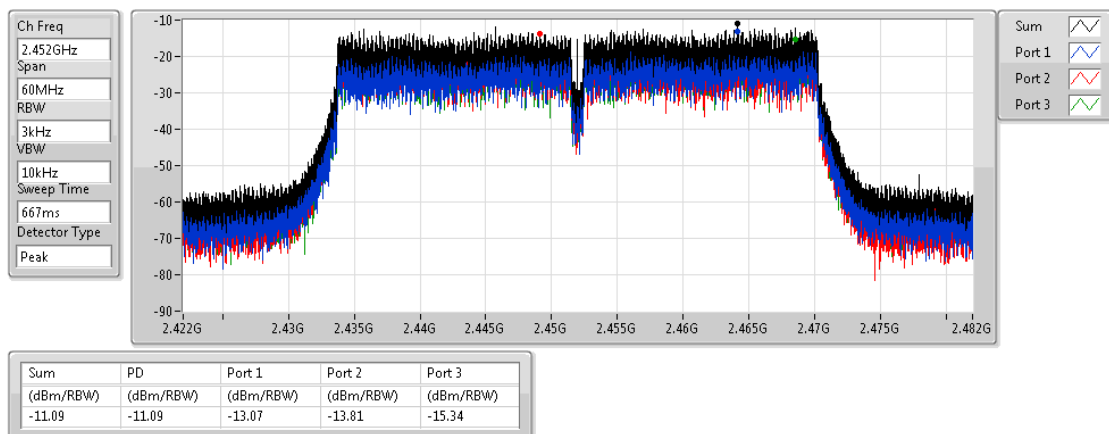
2437MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

PSD

2452MHz



### For 1TX: 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 |
|--------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2.4-2.4835GHz                  | Pass   | 2.430728G   | 1.15         | -28.85         | 2.0452G      | -63.70         | 2.39712G     | -36.39         | 2.48622G     | -55.66         | 9.684284G    | -52.43         | 1    |

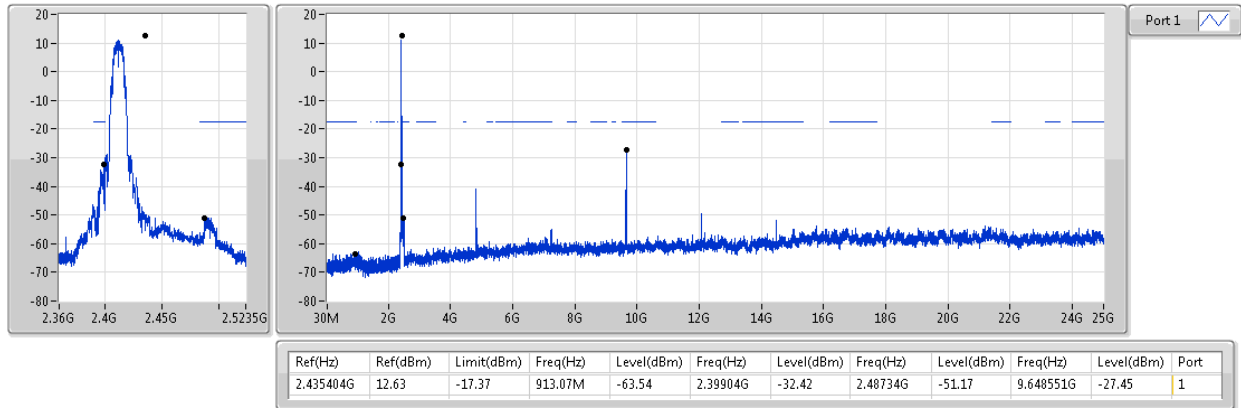
### Result

| 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_(1Mbps)_1TX            | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.435404G   | 12.63        | -17.37         | 913.07M      | -63.54         | 2.39904G     | -32.42         | 2.48734G     | -51.17         | 9.648551G    | -27.45         | 1    |
| 2437MHz                        | Pass   | 2.435404G   | 12.63        | -17.37         | 2.10603G     | -63.56         | 2.39952G     | -52.36         | 2.48558G     | -53.54         | 9.746885G    | -26.88         | 1    |
| 2462MHz                        | Pass   | 2.435404G   | 12.63        | -17.37         | 902.585M     | -62.85         | 2.3972G      | -56.98         | 2.48598G     | -48.65         | 9.848029G    | -29.21         | 1    |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                        | Pass   | 2.434402G   | 10.25        | -19.75         | 788.415M     | -63.16         | 2.39832G     | -33.20         | 2.48734G     | -48.97         | 9.65136G     | -48.41         | 1    |
| 2437MHz                        | Pass   | 2.434402G   | 10.25        | -19.75         | 1.99186G     | -63.07         | 2.3988G      | -37.59         | 2.48382G     | -44.73         | 9.746885G    | -38.66         | 1    |
| 2462MHz                        | Pass   | 2.434402G   | 10.25        | -19.75         | 838.51M      | -63.51         | 2.39008G     | -57.17         | 2.48478G     | -45.83         | 16.723029G   | -54.14         | 1    |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2422MHz                        | Pass   | 2.430728G   | 1.15         | -28.85         | 2.0452G      | -63.70         | 2.39712G     | -36.39         | 2.48622G     | -55.66         | 9.684284G    | -52.43         | 1    |
| 2437MHz                        | Pass   | 2.430728G   | 1.15         | -28.85         | 891.04M      | -63.02         | 2.39968G     | -38.35         | 2.48462G     | -45.54         | 9.748789G    | -52.71         | 1    |
| 2452MHz                        | Pass   | 2.430728G   | 1.15         | -28.85         | 223.505M     | -63.11         | 2.39744G     | -54.23         | 2.4851G      | -44.45         | 24.798072G   | -54.45         | 1    |

### 802.11b\_(1Mbps)\_1TX

CSE NdB

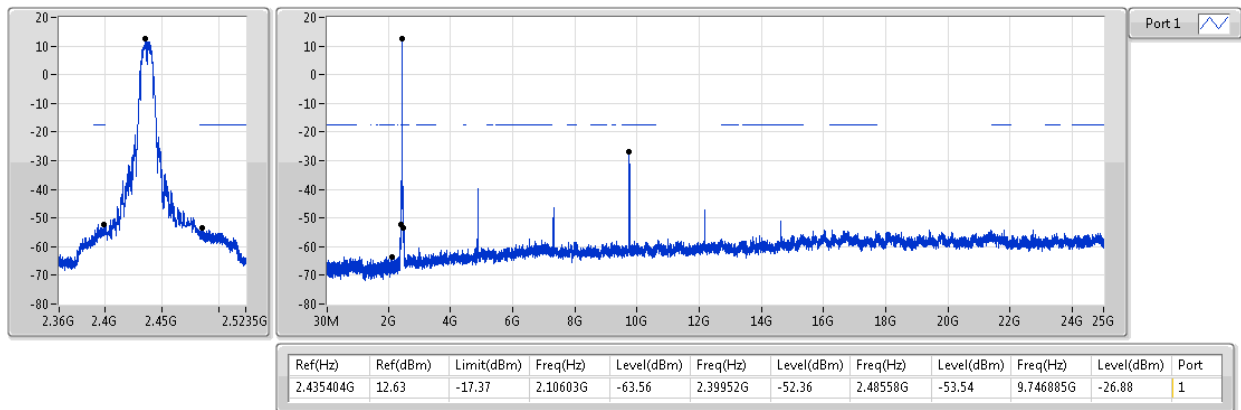
2412MHz



### 802.11b\_(1Mbps)\_1TX

CSE NdB

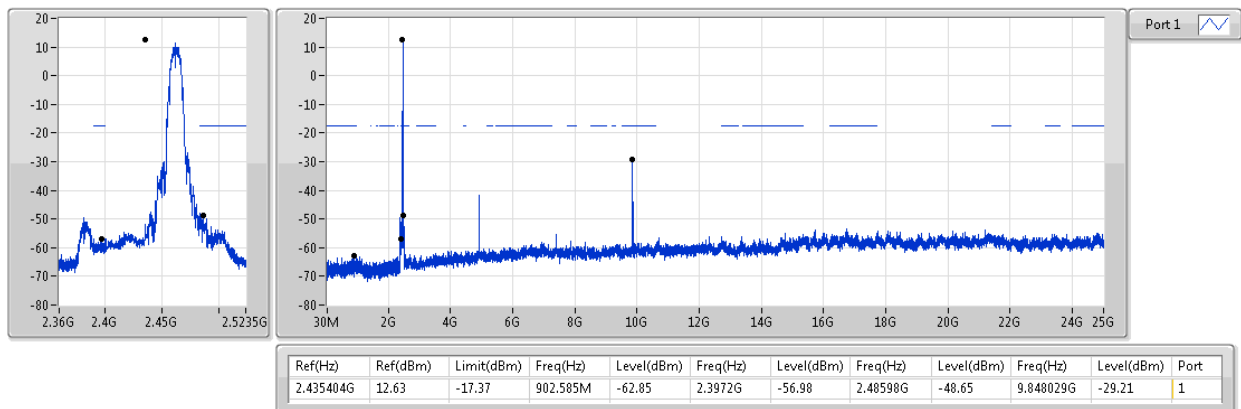
2437MHz



### 802.11b\_(1Mbps)\_1TX

CSE NdB

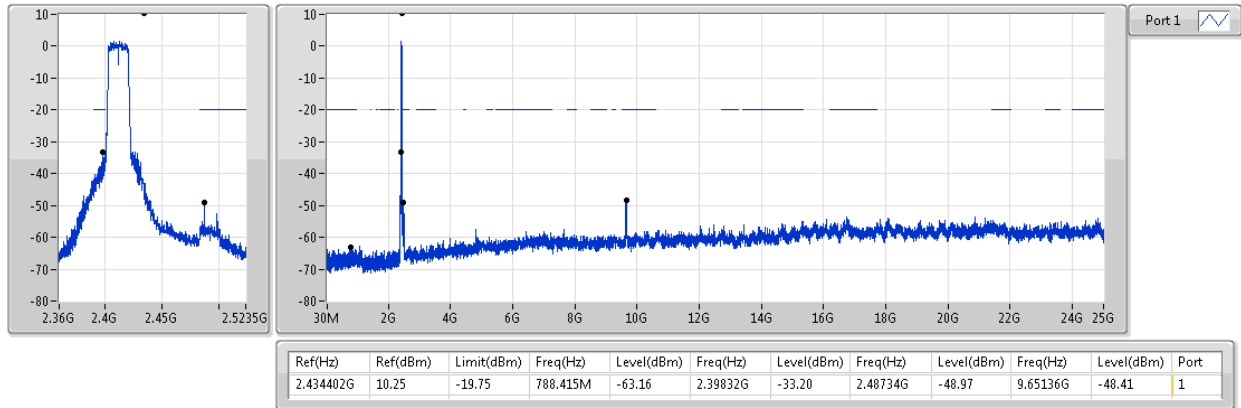
2462MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_1TX

CSE NdB

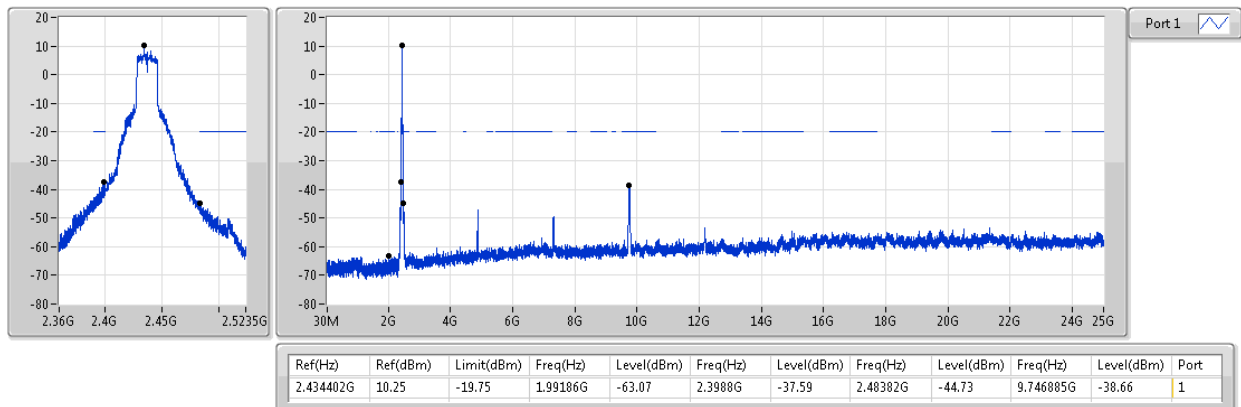
2412MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_1TX

CSE NdB

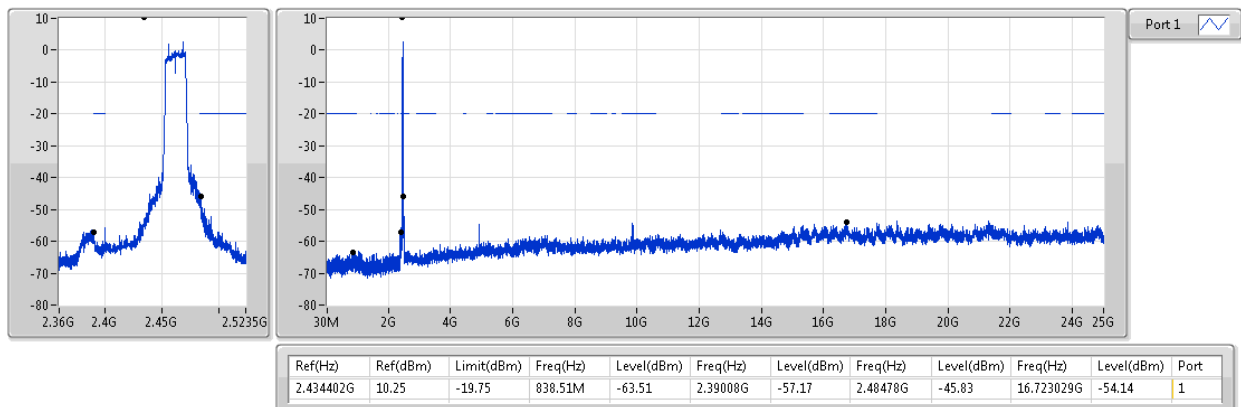
2437MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_1TX

CSE NdB

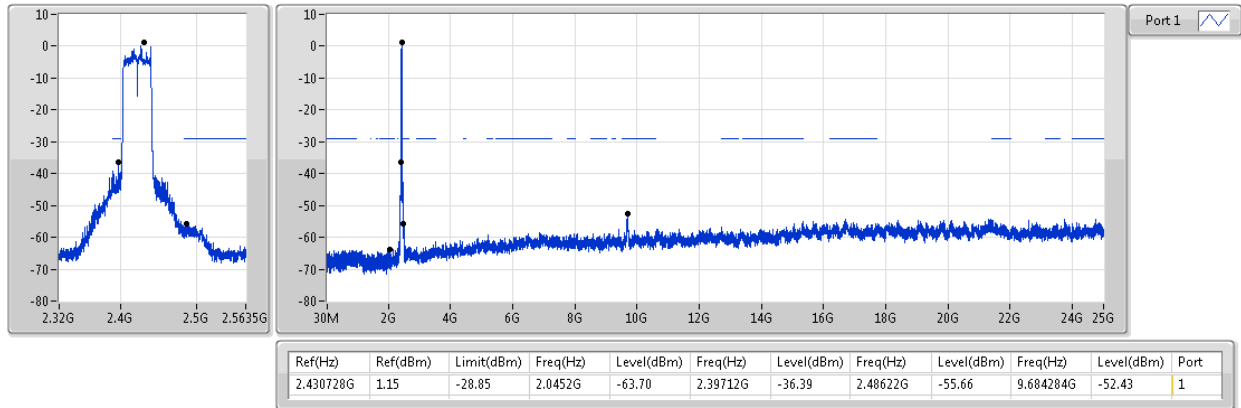
2462MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_1TX

CSE NdB

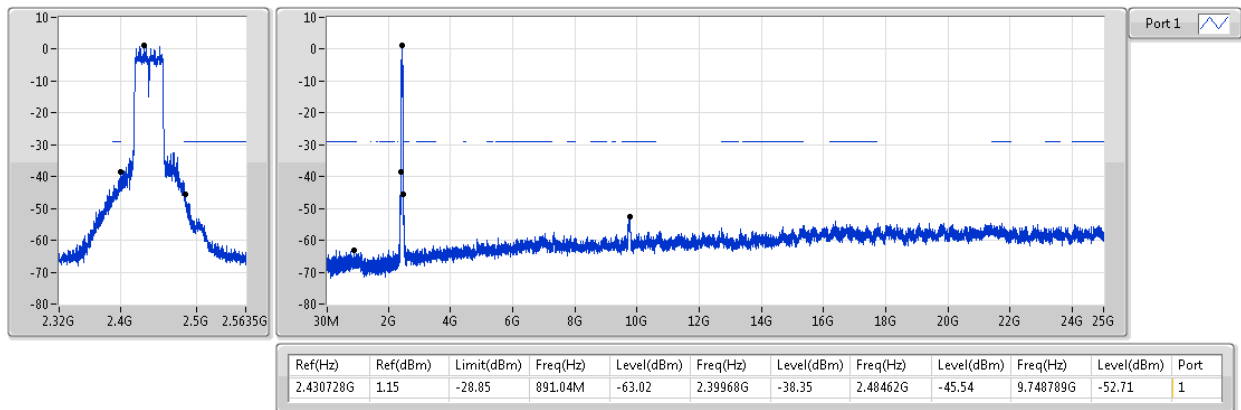
2422MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_1TX

CSE NdB

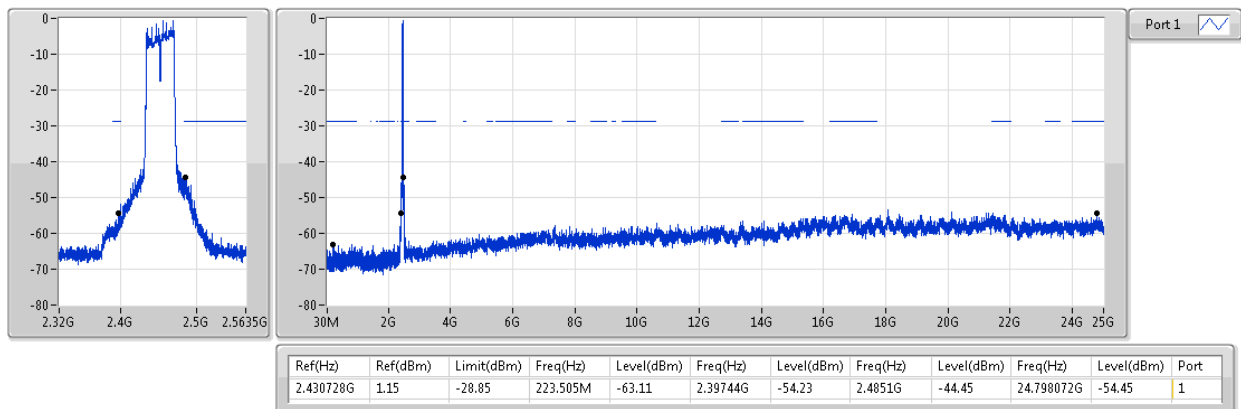
2437MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_1TX

CSE NdB

2452MHz



**For 2TX:  
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 |
|---------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_(1Mbps)_2TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2.4-2.4835GHz       | Pass   | 2.436573G   | 11.58        | -18.42         | 87.085M      | -63.24         | 2.39752G     | -56.07         | 2.4907G      | -54.23         | 9.746885G    | -27.01         | 2    |

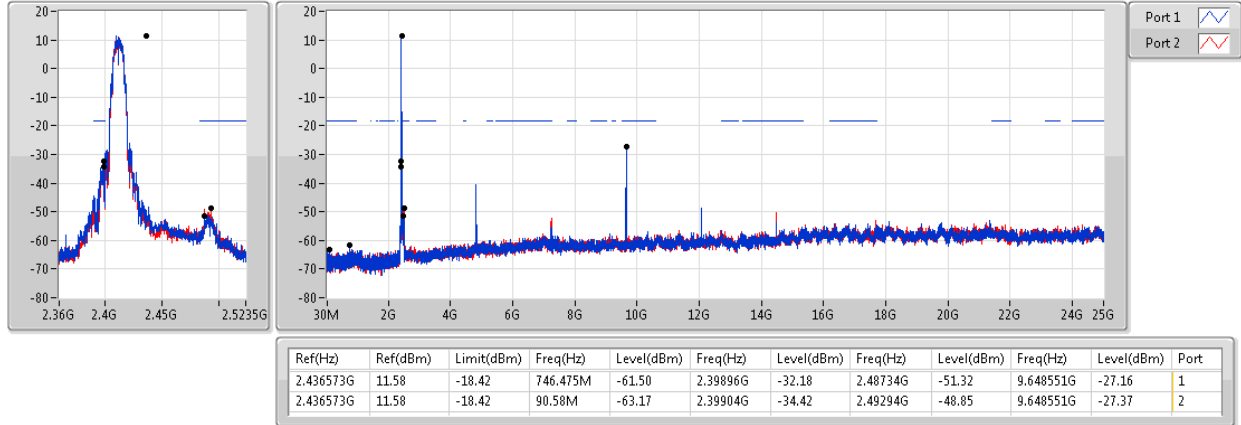
**Result**

| 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_(1Mbps)_2TX               | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                           | Pass   | 2.436573G   | 11.58        | -18.42         | 746.475M     | -61.50         | 2.39896G     | -32.18         | 2.48734G     | -51.32         | 9.648551G    | -27.16         | 1    |
| 2412MHz                           | Pass   | 2.436573G   | 11.58        | -18.42         | 90.58M       | -63.17         | 2.39904G     | -34.42         | 2.49294G     | -48.85         | 9.648551G    | -27.37         | 2    |
| 2437MHz                           | Pass   | 2.436573G   | 11.58        | -18.42         | 723.175M     | -63.13         | 2.398G       | -53.89         | 2.51318G     | -54.82         | 9.746885G    | -27.71         | 1    |
| 2437MHz                           | Pass   | 2.436573G   | 11.58        | -18.42         | 87.085M      | -63.24         | 2.39752G     | -56.07         | 2.4907G      | -54.23         | 9.746885G    | -27.01         | 2    |
| 2462MHz                           | Pass   | 2.436573G   | 11.58        | -18.42         | 225.72M      | -63.41         | 2.39944G     | -57.95         | 2.48646G     | -49.69         | 9.848029G    | -29.95         | 1    |
| 2462MHz                           | Pass   | 2.436573G   | 11.58        | -18.42         | 49.805M      | -62.97         | 2.39992G     | -58.18         | 2.48582G     | -50.39         | 9.848029G    | -29.23         | 2    |
| 802.11ac VHT20-BF_Nss1,(MCS0)_2TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                           | Pass   | 2.434402G   | 9.40         | -20.60         | 838.51M      | -63.22         | 2.39984G     | -31.87         | 2.48734G     | -49.62         | 9.642931G    | -46.70         | 1    |
| 2412MHz                           | Pass   | 2.434402G   | 9.40         | -20.60         | 32.33M       | -62.73         | 2.39992G     | -32.36         | 2.48734G     | -49.97         | 9.65136G     | -48.19         | 2    |
| 2437MHz                           | Pass   | 2.434402G   | 9.40         | -20.60         | 31.165M      | -62.35         | 2.3992G      | -38.94         | 2.48486G     | -45.21         | 9.744076G    | -39.43         | 1    |
| 2437MHz                           | Pass   | 2.434402G   | 9.40         | -20.60         | 773.27M      | -63.38         | 2.39984G     | -39.95         | 2.48366G     | -47.95         | 9.744076G    | -38.33         | 2    |
| 2462MHz                           | Pass   | 2.434402G   | 9.40         | -20.60         | 897.925M     | -63.55         | 2.3904G      | -57.09         | 2.48382G     | -36.81         | 9.853649G    | -51.02         | 1    |
| 2462MHz                           | Pass   | 2.434402G   | 9.40         | -20.60         | 32.33M       | -63.29         | 2.39048G     | -54.97         | 2.4847G      | -36.42         | 9.84522G     | -48.41         | 2    |
| 802.11ac VHT40-BF_Nss1,(MCS0)_2TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2422MHz                           | Pass   | 2.431897G   | 2.24         | -27.76         | 30M          | -61.62         | 2.39696G     | -38.16         | 2.48638G     | -55.91         | 16.213306G   | -54.31         | 1    |
| 2422MHz                           | Pass   | 2.431897G   | 2.24         | -27.76         | 31.145M      | -57.32         | 2.39696G     | -37.12         | 2.48686G     | -55.20         | 9.689893G    | -52.35         | 2    |
| 2437MHz                           | Pass   | 2.431897G   | 2.24         | -27.76         | 30M          | -60.85         | 2.39904G     | -41.60         | 2.48414G     | -44.77         | 9.74318G     | -53.01         | 1    |
| 2437MHz                           | Pass   | 2.431897G   | 2.24         | -27.76         | 30M          | -60.01         | 2.39952G     | -41.41         | 2.4843G      | -48.15         | 9.751594G    | -51.39         | 2    |
| 2452MHz                           | Pass   | 2.431897G   | 2.24         | -27.76         | 31.145M      | -62.43         | 2.39232G     | -53.37         | 2.4851G      | -43.54         | 24.433478G   | -54.66         | 1    |
| 2452MHz                           | Pass   | 2.431897G   | 2.24         | -27.76         | 30M          | -63.46         | 2.39472G     | -52.82         | 2.48494G     | -43.84         | 17.66046G    | -54.18         | 2    |

### 802.11b\_(1Mbps)\_2TX

CSE NdB

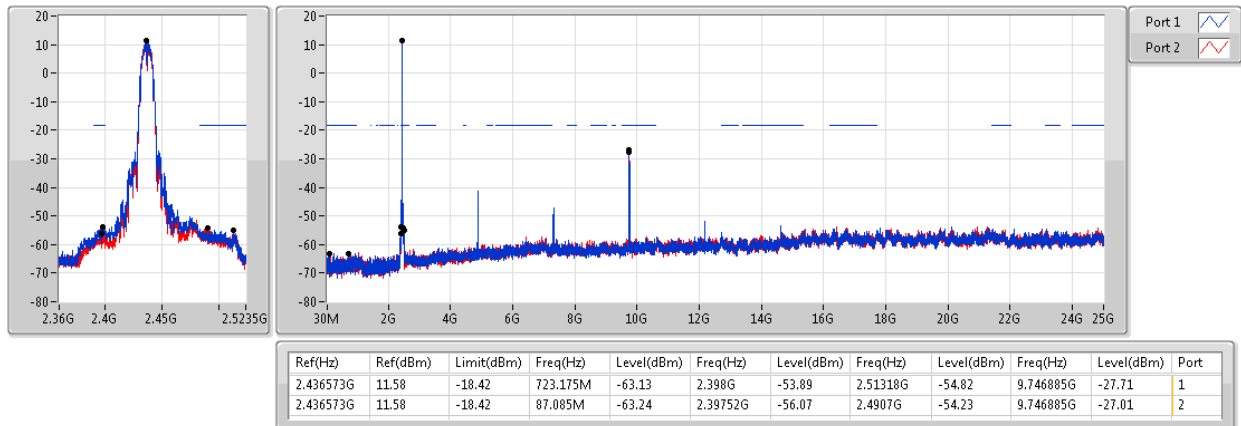
2412MHz



### 802.11b\_(1Mbps)\_2TX

CSE NdB

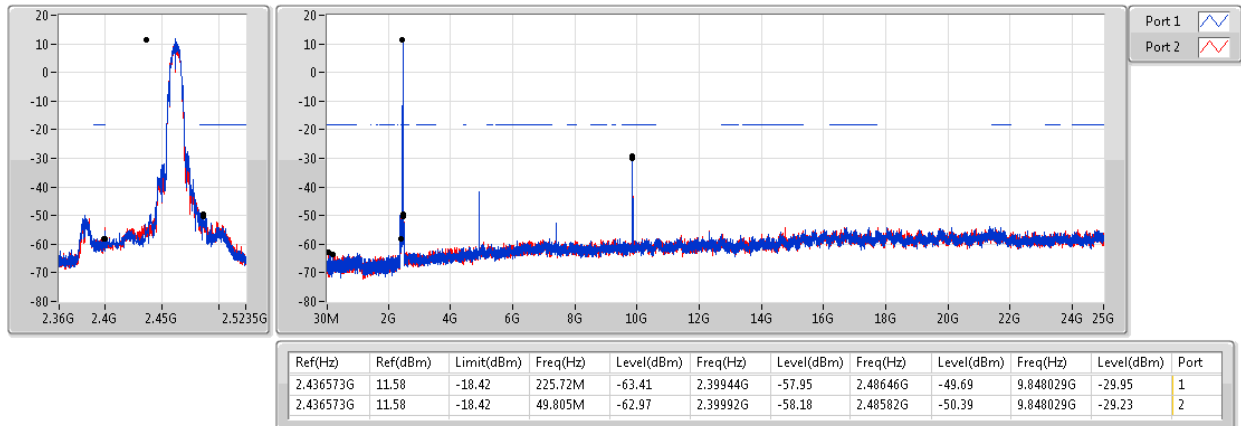
2437MHz



### 802.11b\_(1Mbps)\_2TX

CSE NdB

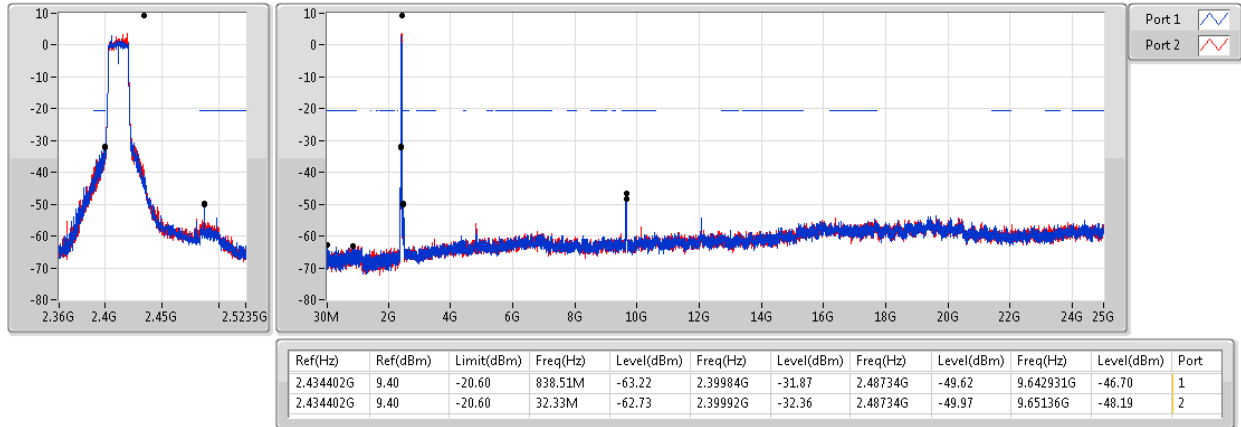
2462MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

CSE NdB

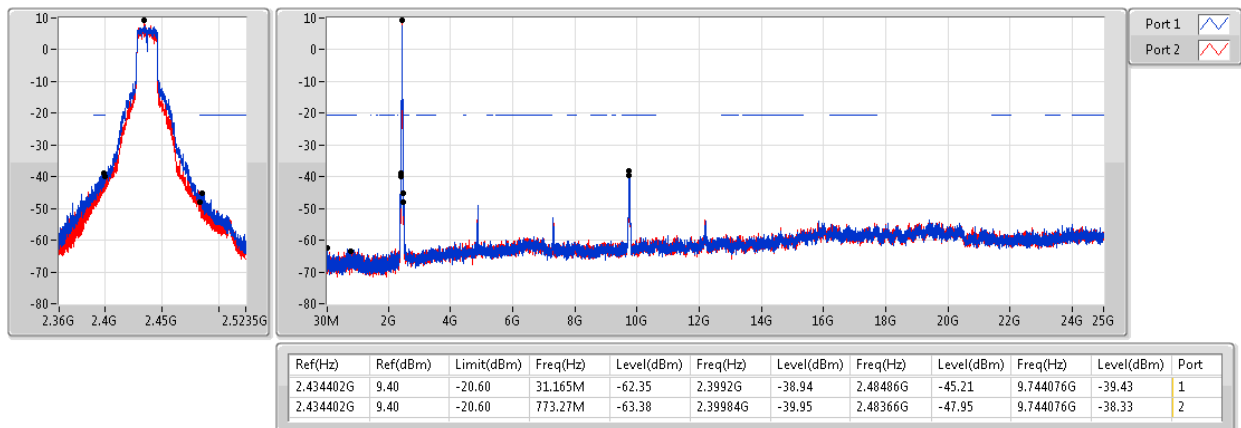
2412MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

CSE NdB

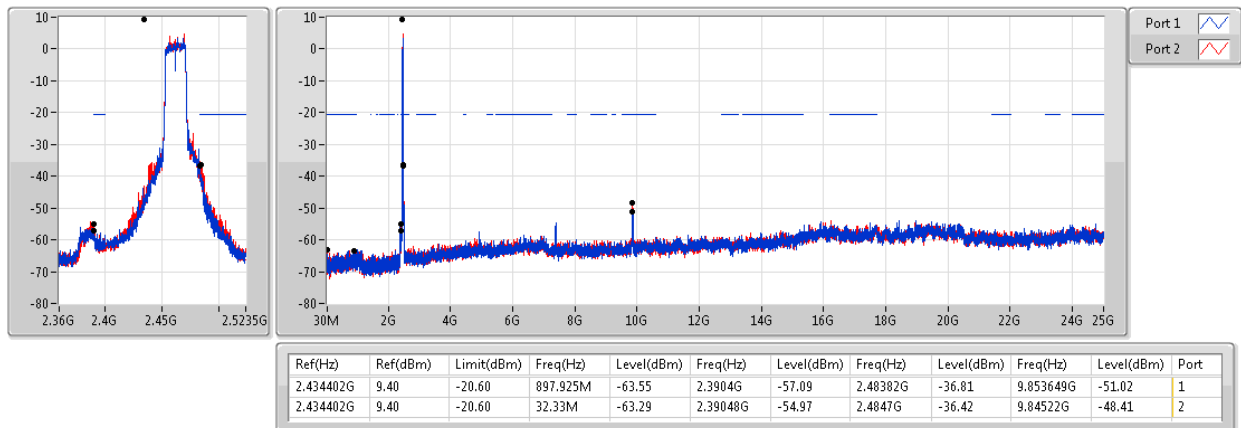
2437MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

CSE NdB

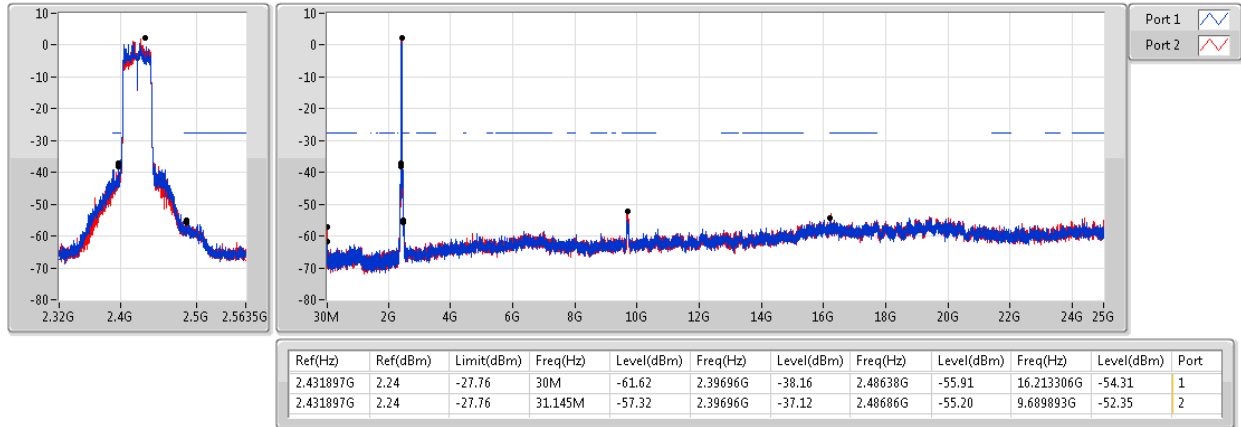
2462MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

CSE NdB

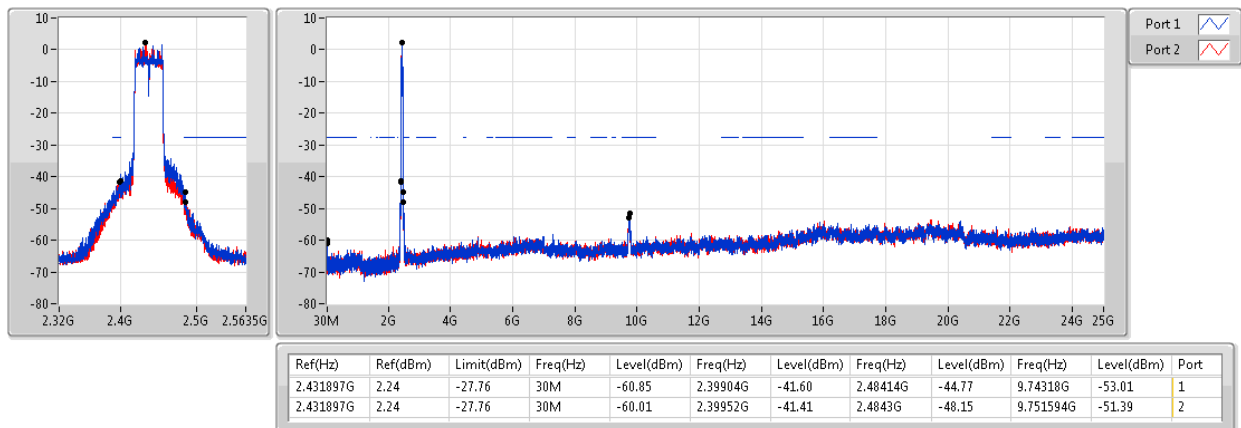
2422MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

CSE NdB

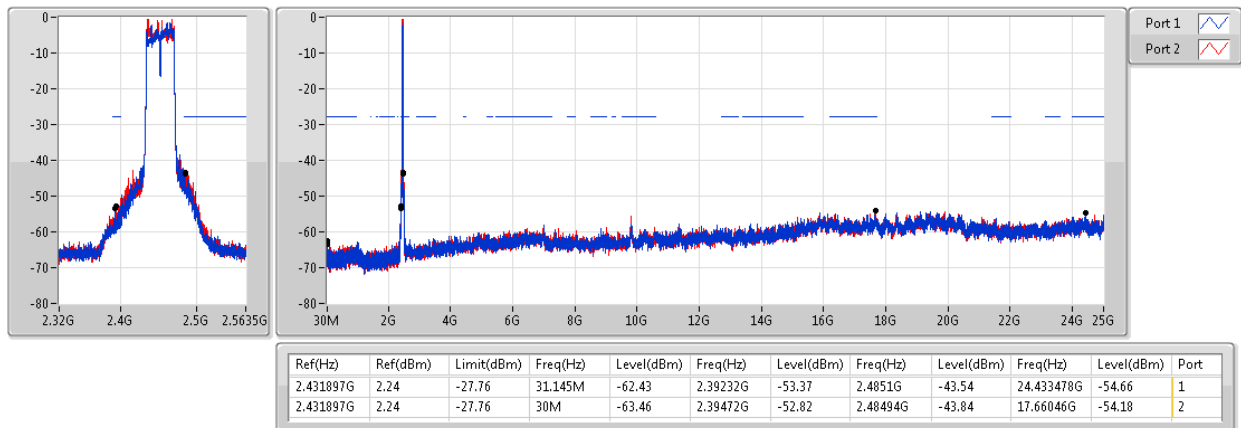
2437MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

CSE NdB

2452MHz



**For 3TX:  
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 |
|---------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_(1Mbps)_3TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2.4-2.4835GHz       | Pass   | 2.437408G   | 11.08        | -18.92         | 819.87M      | -57.92         | 2.39976G     | -55.39         | 2.48422G     | -53.43         | 9.746885G    | -26.76         | 2    |

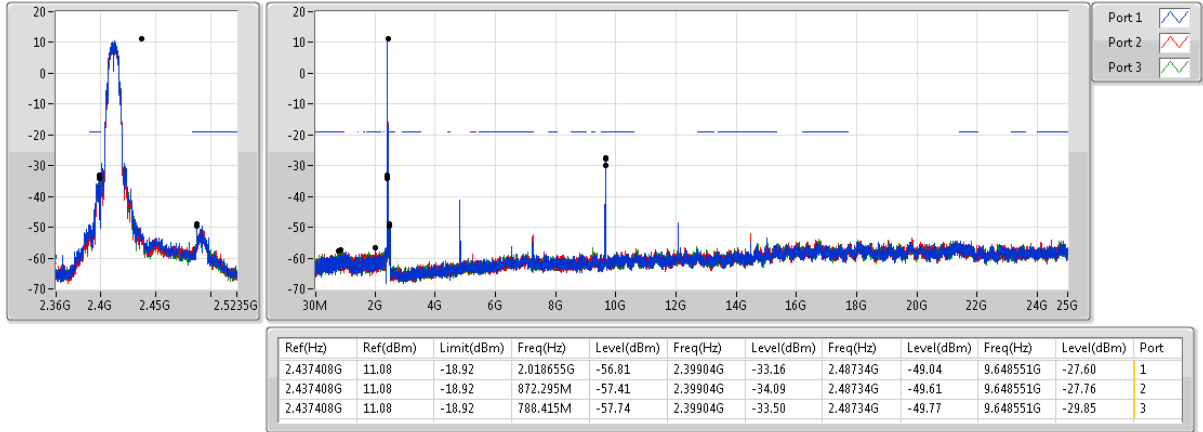
**Result**

| 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_(1Mbps)_3TX               | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                           | Pass   | 2.437408G   | 11.08        | -18.92         | 2.018655G    | -56.81         | 2.39904G     | -33.16         | 2.48734G     | -49.04         | 9.648551G    | -27.60         | 1    |
| 2412MHz                           | Pass   | 2.437408G   | 11.08        | -18.92         | 872.295M     | -57.41         | 2.39904G     | -34.09         | 2.48734G     | -49.61         | 9.648551G    | -27.76         | 2    |
| 2412MHz                           | Pass   | 2.437408G   | 11.08        | -18.92         | 788.415M     | -57.74         | 2.39904G     | -33.50         | 2.48734G     | -49.77         | 9.648551G    | -29.85         | 3    |
| 2437MHz                           | Pass   | 2.437408G   | 11.08        | -18.92         | 1.988365G    | -57.80         | 2.39752G     | -53.74         | 2.4899G      | -54.45         | 9.746885G    | -27.88         | 1    |
| 2437MHz                           | Pass   | 2.437408G   | 11.08        | -18.92         | 819.87M      | -57.92         | 2.39976G     | -55.39         | 2.48422G     | -53.43         | 9.746885G    | -26.76         | 2    |
| 2437MHz                           | Pass   | 2.437408G   | 11.08        | -18.92         | 2.002345G    | -58.10         | 2.39968G     | -53.70         | 2.51318G     | -54.97         | 9.746885G    | -30.09         | 3    |
| 2462MHz                           | Pass   | 2.437408G   | 11.08        | -18.92         | 1.87303G     | -57.18         | 2.39984G     | -56.76         | 2.48398G     | -49.41         | 9.848029G    | -29.53         | 1    |
| 2462MHz                           | Pass   | 2.437408G   | 11.08        | -18.92         | 927.05M      | -57.59         | 2.39072G     | -56.92         | 2.48598G     | -48.45         | 9.848029G    | -29.56         | 2    |
| 2462MHz                           | Pass   | 2.437408G   | 11.08        | -18.92         | 442.41M      | -57.37         | 2.39712G     | -57.58         | 2.4839G      | -49.26         | 9.848029G    | -31.63         | 3    |
| 802.11ac VHT20-BF_Nss1,(MCS0)_3TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                           | Pass   | 2.438243G   | 10.99        | -19.01         | 908.41M      | -57.46         | 2.3992G      | -31.74         | 2.48734G     | -48.84         | 9.648551G    | -48.82         | 1    |
| 2412MHz                           | Pass   | 2.438243G   | 10.99        | -19.01         | 640.46M      | -57.11         | 2.3988G      | -34.18         | 2.48734G     | -51.53         | 9.65136G     | -47.99         | 2    |
| 2412MHz                           | Pass   | 2.438243G   | 10.99        | -19.01         | 2.04545G     | -57.18         | 2.3996G      | -31.16         | 2.48734G     | -51.00         | 9.648551G    | -50.21         | 3    |
| 2437MHz                           | Pass   | 2.438243G   | 10.99        | -19.01         | 934.04M      | -57.49         | 2.39952G     | -38.06         | 2.48478G     | -43.95         | 9.752504G    | -38.25         | 1    |
| 2437MHz                           | Pass   | 2.438243G   | 10.99        | -19.01         | 882.78M      | -56.88         | 2.3992G      | -41.49         | 2.48382G     | -47.59         | 9.746885G    | -40.14         | 2    |
| 2437MHz                           | Pass   | 2.438243G   | 10.99        | -19.01         | 2.130495G    | -56.89         | 2.39976G     | -39.25         | 2.48382G     | -46.08         | 9.749695G    | -42.01         | 3    |
| 2462MHz                           | Pass   | 2.438243G   | 10.99        | -19.01         | 727.835M     | -58.08         | 2.39008G     | -57.59         | 2.48382G     | -40.25         | 9.848029G    | -50.01         | 1    |
| 2462MHz                           | Pass   | 2.438243G   | 10.99        | -19.01         | 2.14098G     | -57.70         | 2.3904G      | -55.83         | 2.48358G     | -38.61         | 9.848029G    | -48.32         | 2    |
| 2462MHz                           | Pass   | 2.438243G   | 10.99        | -19.01         | 2.30874G     | -57.19         | 2.39048G     | -56.17         | 2.48358G     | -36.36         | 9.853649G    | -52.75         | 3    |
| 802.11ac VHT40-BF_Nss1,(MCS0)_3TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2422MHz                           | Pass   | 2.432064G   | 1.68         | -28.32         | 875.01M      | -63.31         | 2.39696G     | -37.79         | 2.4995G      | -55.94         | 21.412965G   | -53.49         | 1    |
| 2422MHz                           | Pass   | 2.432064G   | 1.68         | -28.32         | 1.65132G     | -62.90         | 2.39984G     | -41.54         | 2.4867G      | -54.00         | 9.706721G    | -52.35         | 2    |
| 2422MHz                           | Pass   | 2.432064G   | 1.68         | -28.32         | 951.725M     | -63.41         | 2.39696G     | -37.34         | 2.48542G     | -55.17         | 24.837335G   | -54.26         | 3    |
| 2437MHz                           | Pass   | 2.432064G   | 1.68         | -28.32         | 729.595M     | -62.42         | 2.3992G      | -40.75         | 2.48446G     | -44.23         | 9.757203G    | -51.33         | 1    |
| 2437MHz                           | Pass   | 2.432064G   | 1.68         | -28.32         | 2.128785G    | -63.72         | 2.39712G     | -39.34         | 2.48494G     | -43.93         | 9.748789G    | -49.87         | 2    |
| 2437MHz                           | Pass   | 2.432064G   | 1.68         | -28.32         | 31.145M      | -63.23         | 2.39952G     | -38.82         | 2.48478G     | -43.81         | 9.729157G    | -53.79         | 3    |
| 2452MHz                           | Pass   | 2.432064G   | 1.68         | -28.32         | 810.89M      | -63.10         | 2.39712G     | -52.28         | 2.48878G     | -42.57         | 24.80929G    | -54.17         | 1    |
| 2452MHz                           | Pass   | 2.432064G   | 1.68         | -28.32         | 757.075M     | -62.84         | 2.39888G     | -49.69         | 2.48494G     | -40.59         | 16.34512G    | -54.12         | 2    |
| 2452MHz                           | Pass   | 2.432064G   | 1.68         | -28.32         | 881.88M      | -63.38         | 2.39952G     | -49.28         | 2.48622G     | -40.83         | 21.494297G   | -53.75         | 3    |

### 802.11b\_(1Mbps)\_3TX

CSE NdB

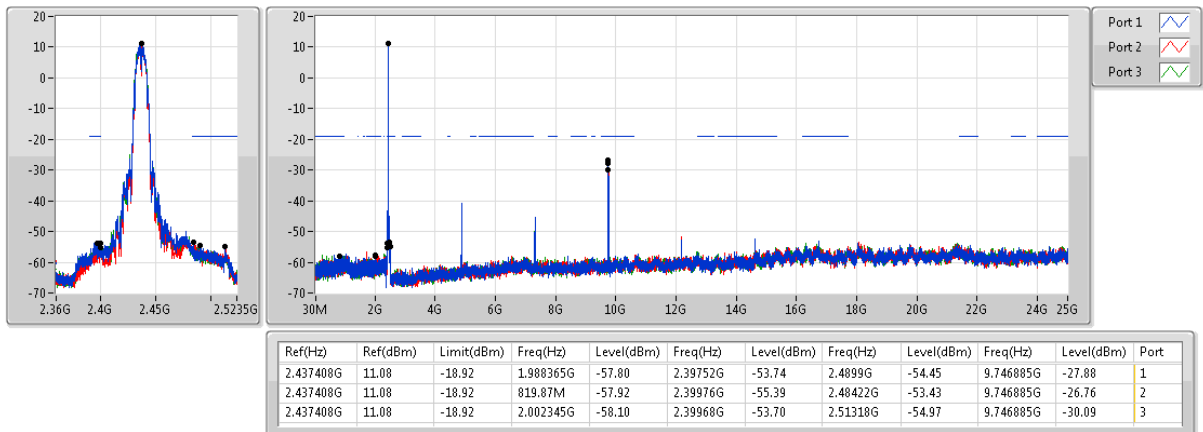
2412MHz



### 802.11b\_(1Mbps)\_3TX

CSE NdB

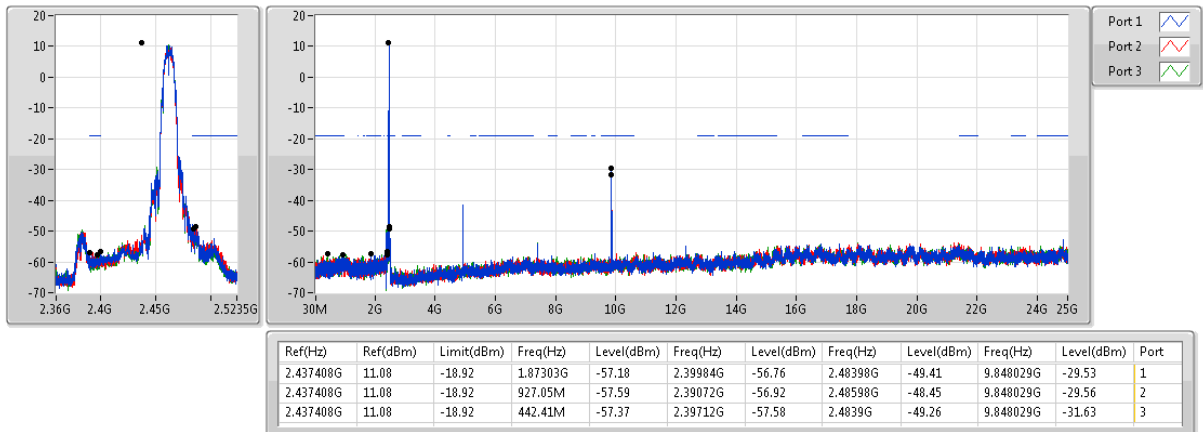
2437MHz



### 802.11b\_(1Mbps)\_3TX

CSE NdB

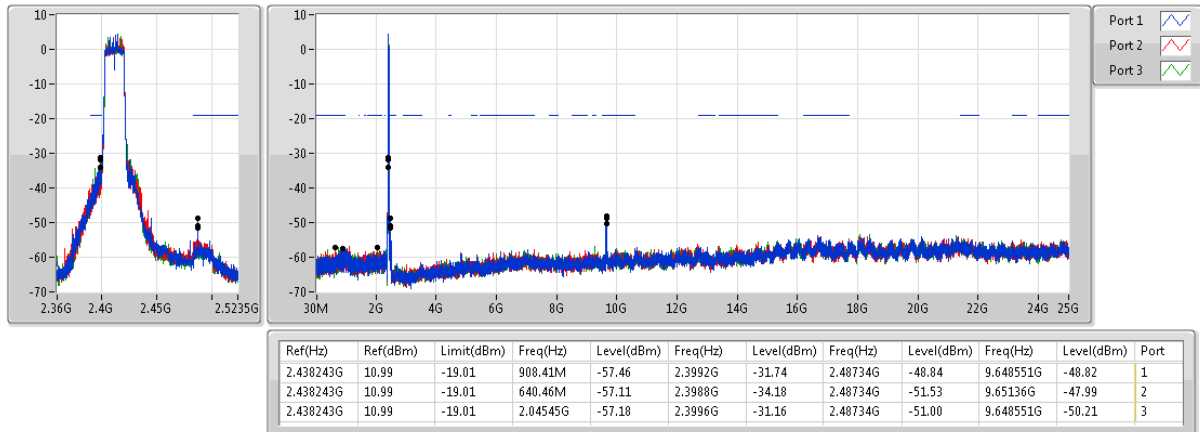
2462MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

CSE NdB

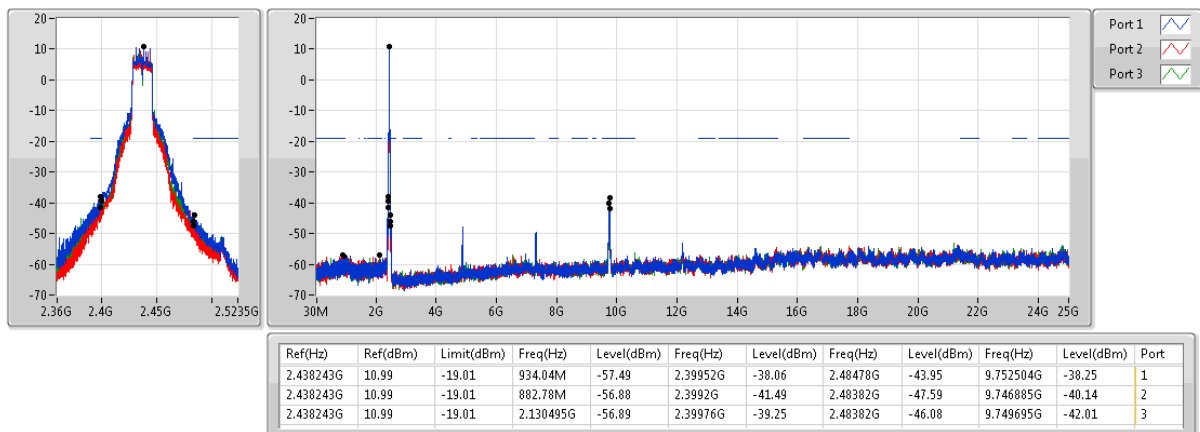
2412MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

CSE NdB

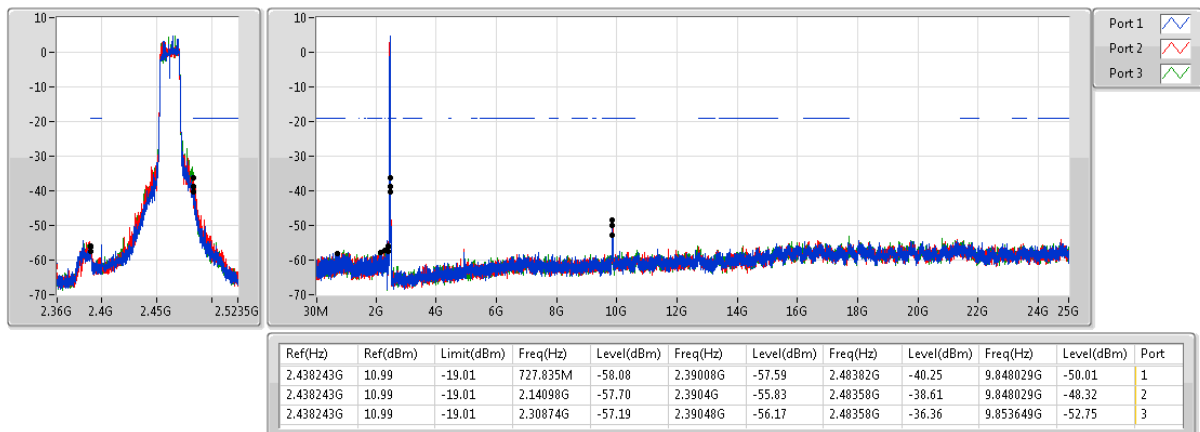
2437MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

CSE NdB

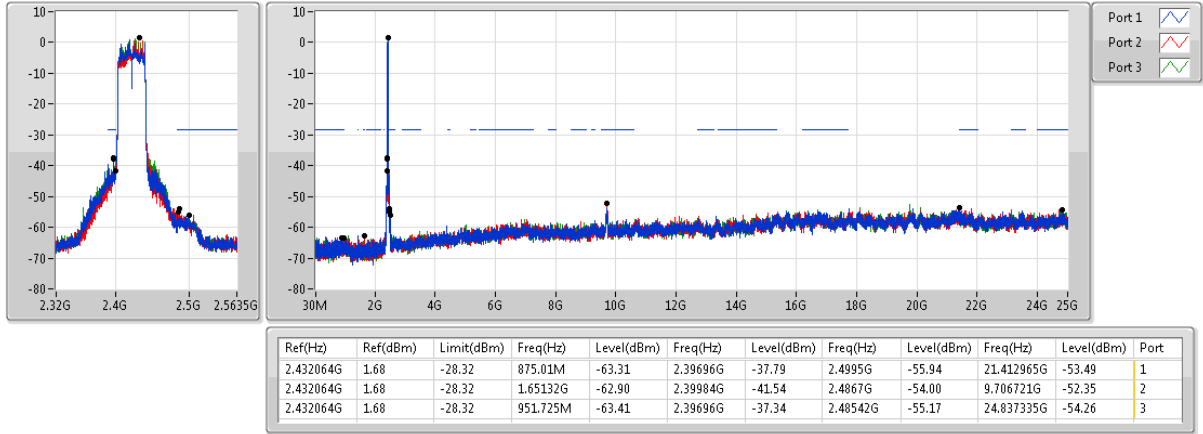
2462MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

CSE NdB

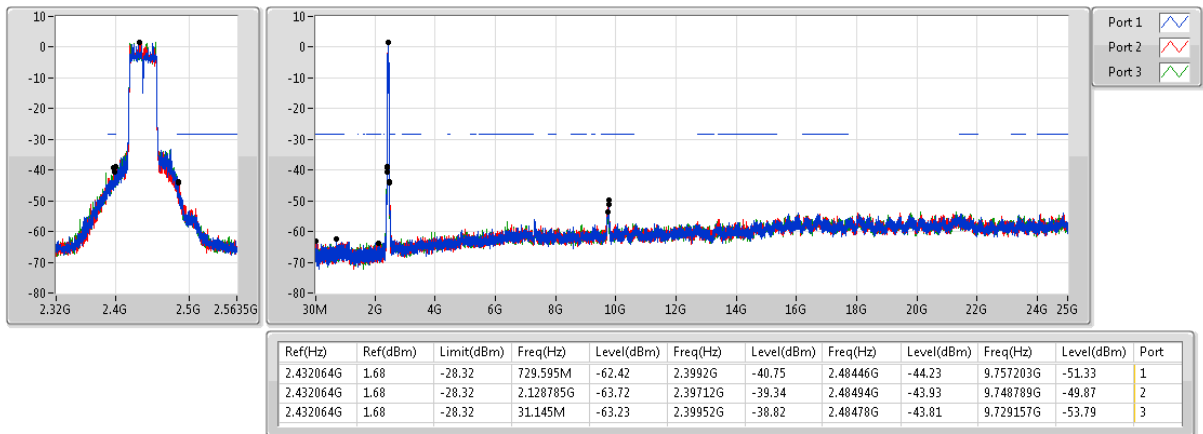
2422MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

CSE NdB

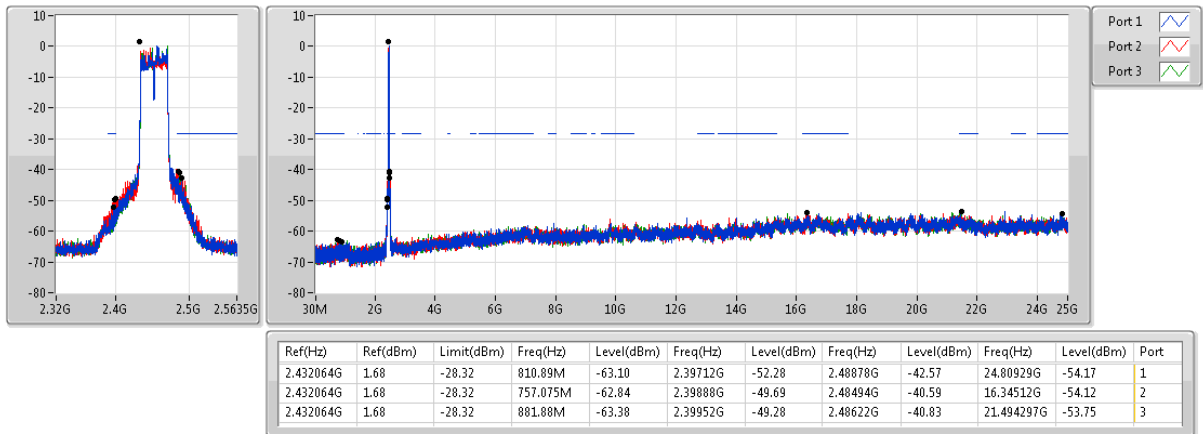
2437MHz

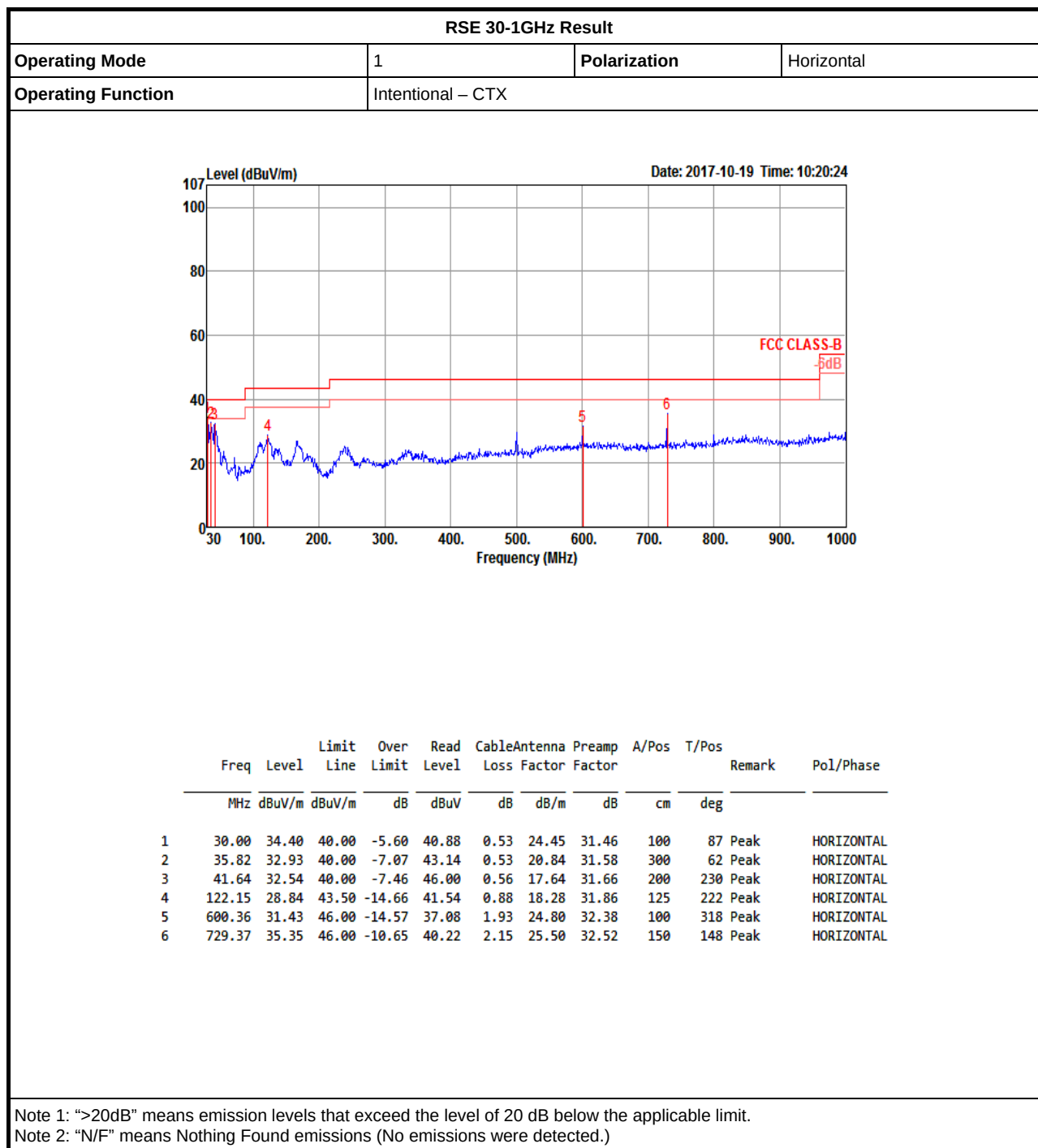


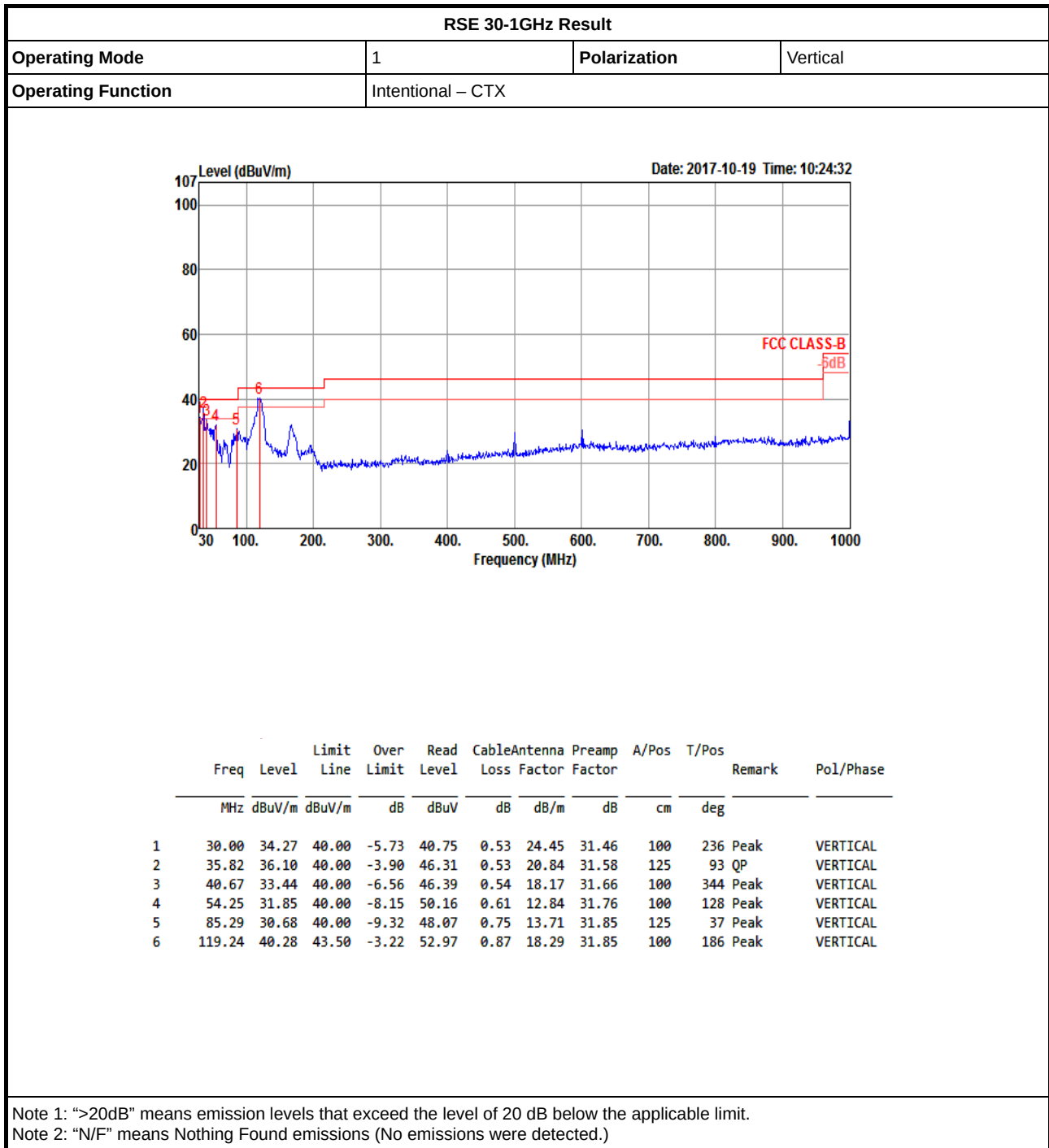
### 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

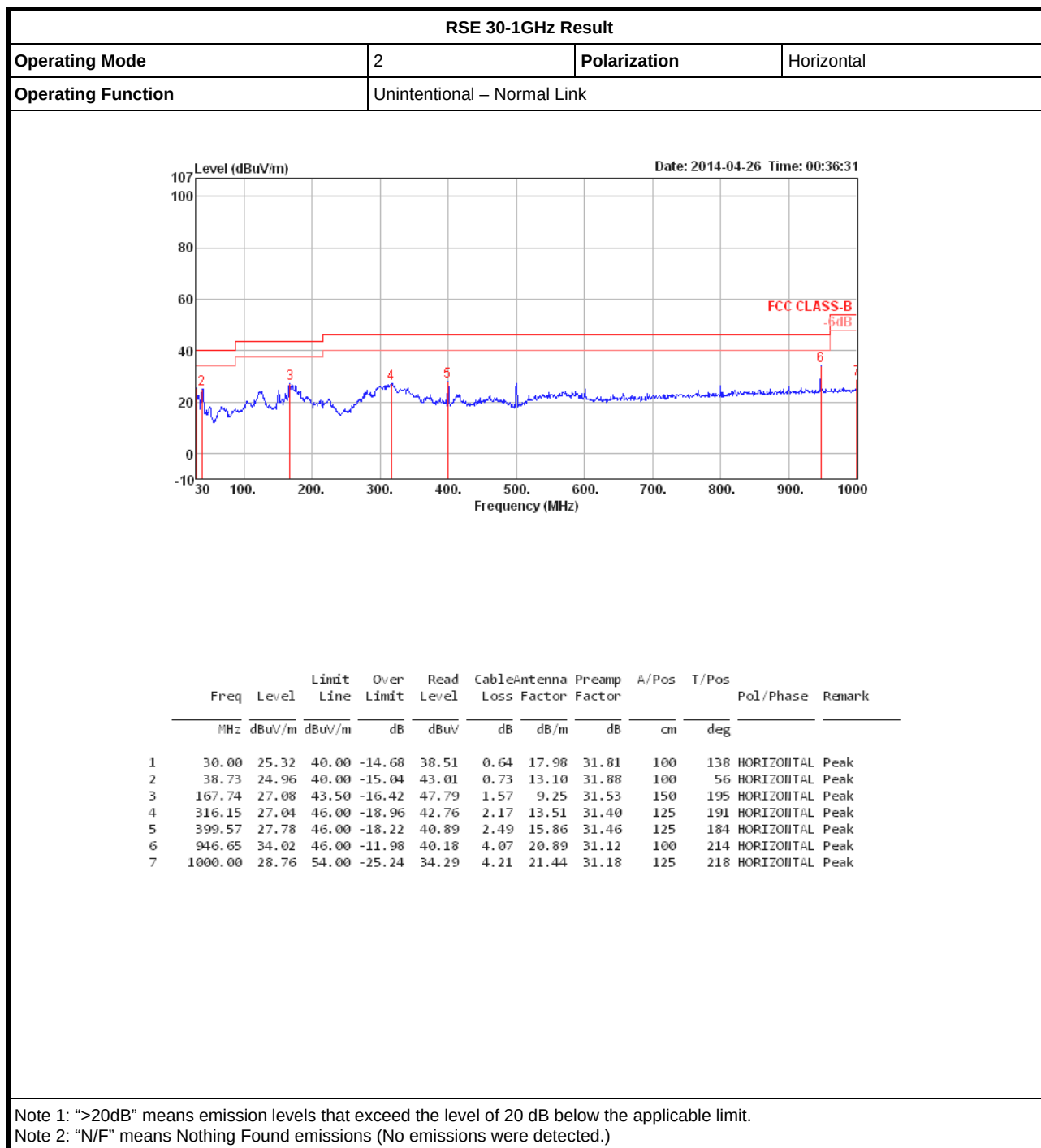
CSE NdB

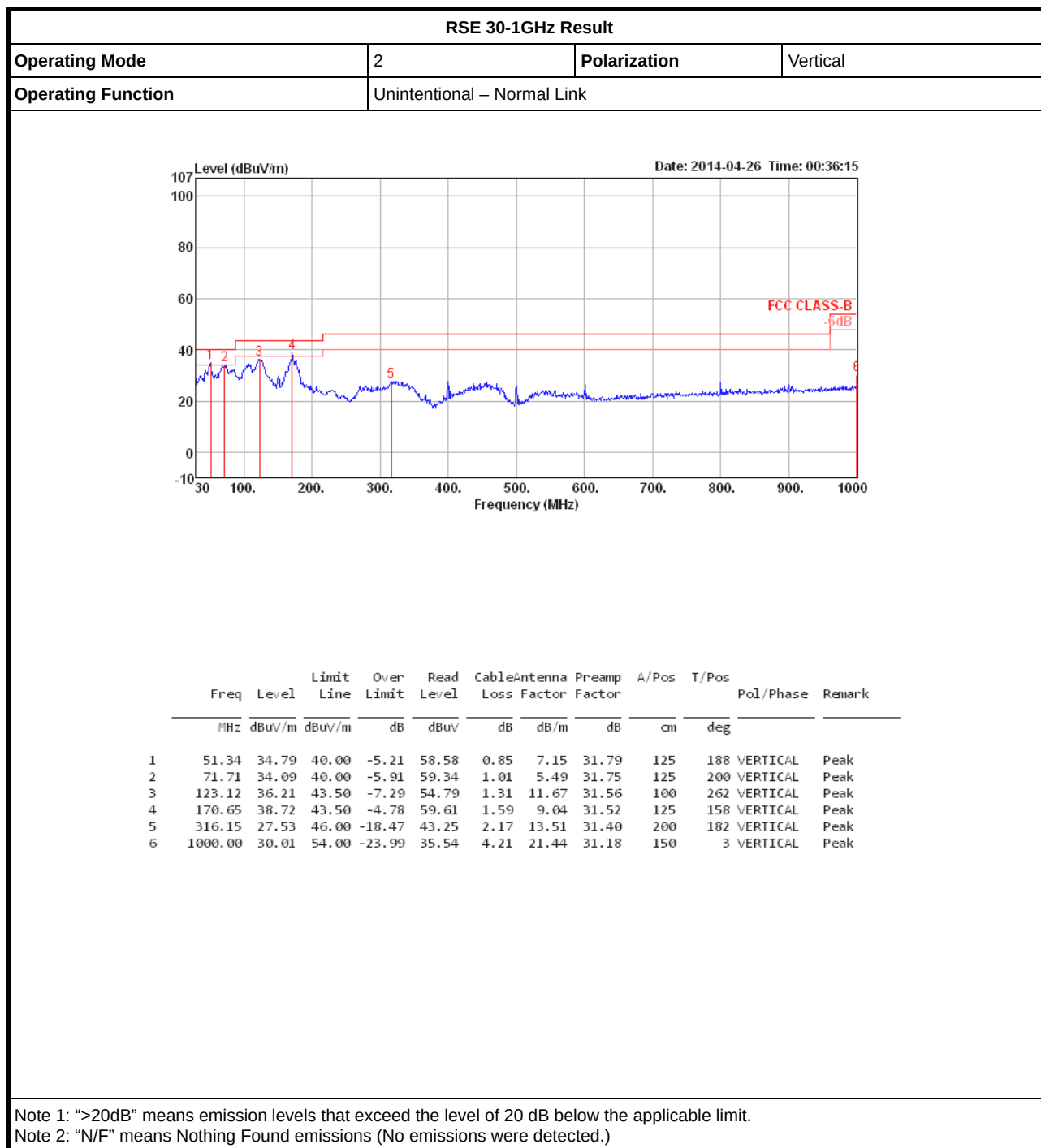
2452MHz

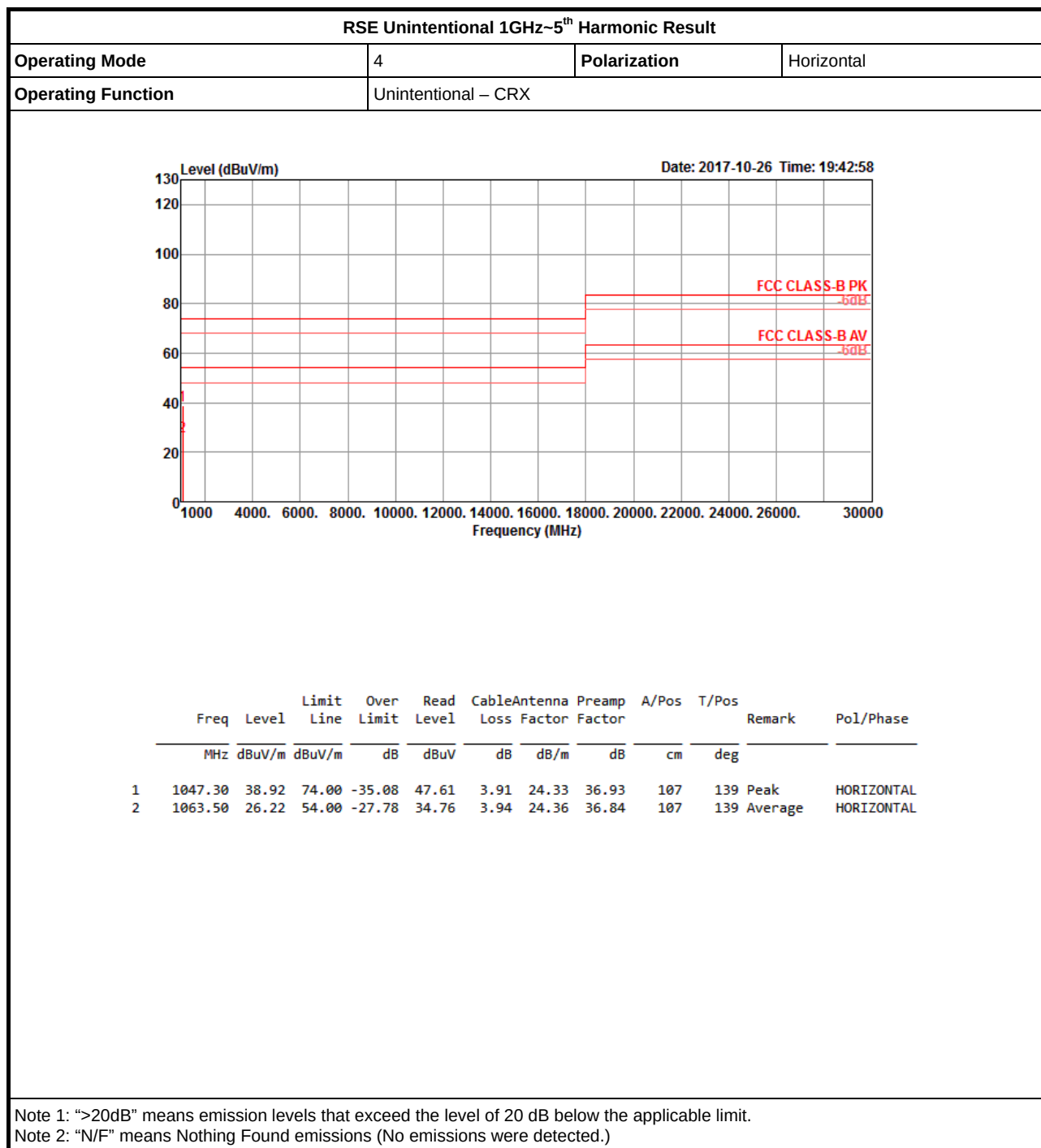


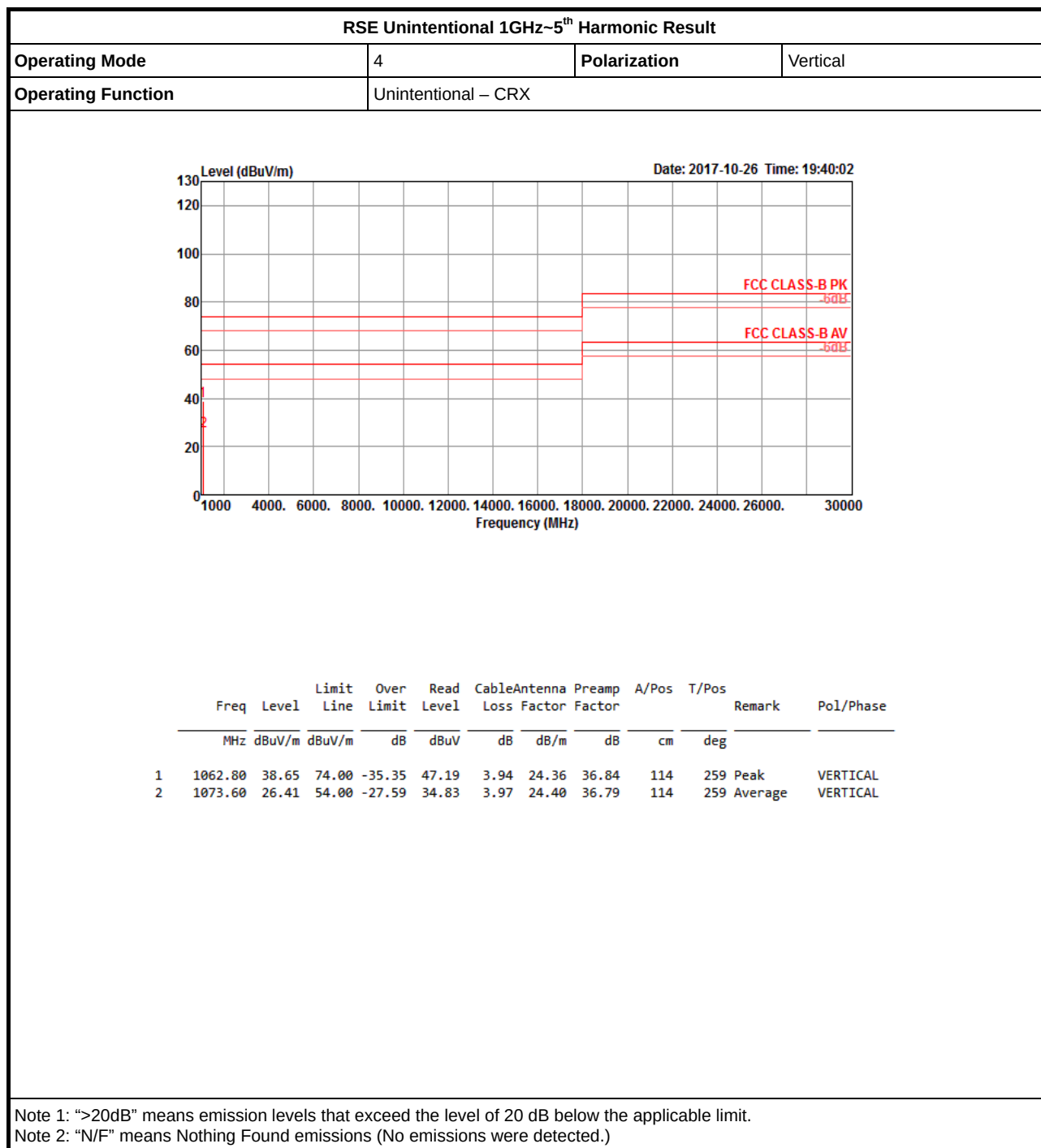










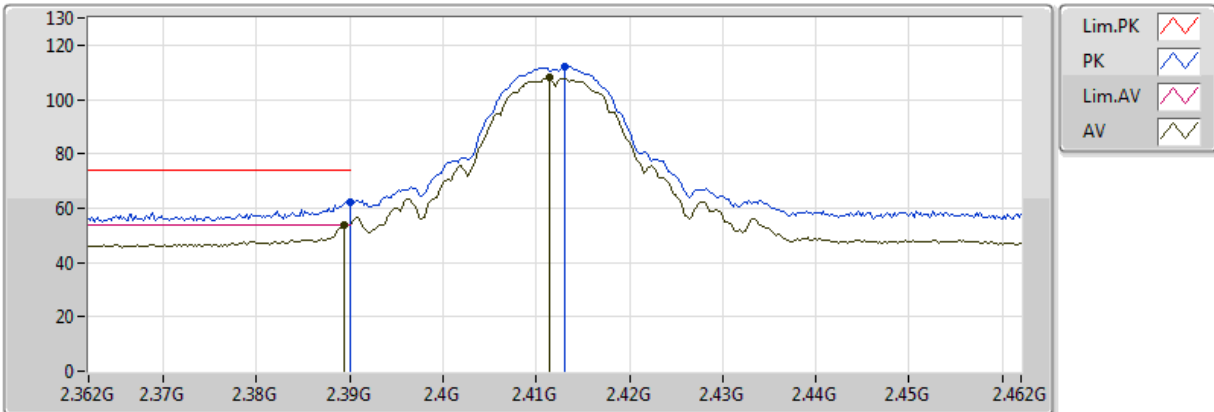


**For 1TX:  
Summary**

| Mode                           | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Pol.<br>(H/V) | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|---------------|----------------|---------------|----------|
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -             | -              | -             | -        |
| 2.4-2.4835GHz                  | Pass   | PK   | 2.4854G      | 73.97             | 74.00             | -0.03          | 32.30          | 3           | H             | 220            | 1.09          | -        |

## 802.11b\_(1Mbps)\_1TX

## 2412MHz\_TX

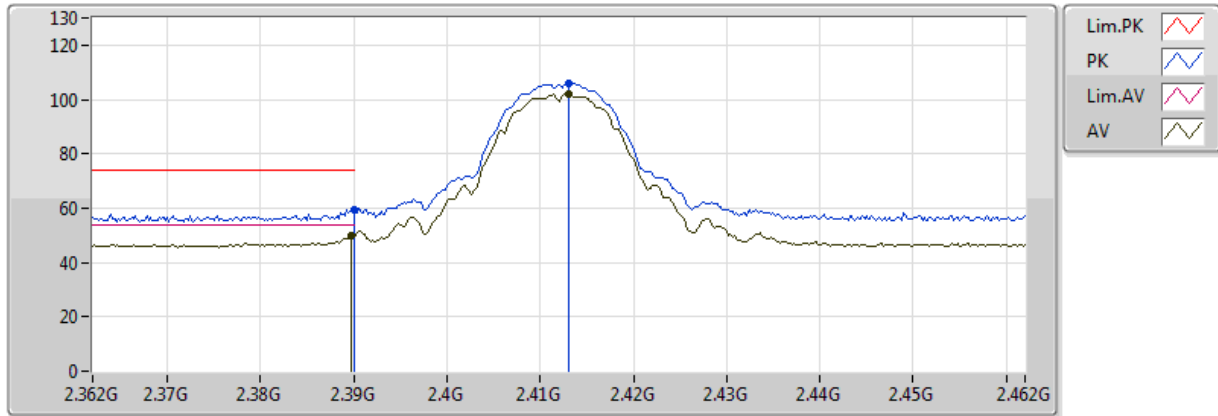


20170703  
EUT Y\_1TX Ant 0  
Setting 79  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3894G  | 53.70         | 54.00         | -0.30      | 32.01      | 3       | H         | 225        | 1.00      | -        |
| AV   | 2.4114G  | 107.97        | Inf           | -Inf       | 32.08      | 3       | H         | 225        | 1.00      | -        |
| PK   | 2.39G    | 62.11         | 74.00         | -11.89     | 32.01      | 3       | H         | 225        | 1.00      | -        |
| PK   | 2.413G   | 111.90        | Inf           | -Inf       | 32.08      | 3       | H         | 225        | 1.00      | -        |

## 802.11b\_(1Mbps)\_1TX

## 2412MHz\_TX

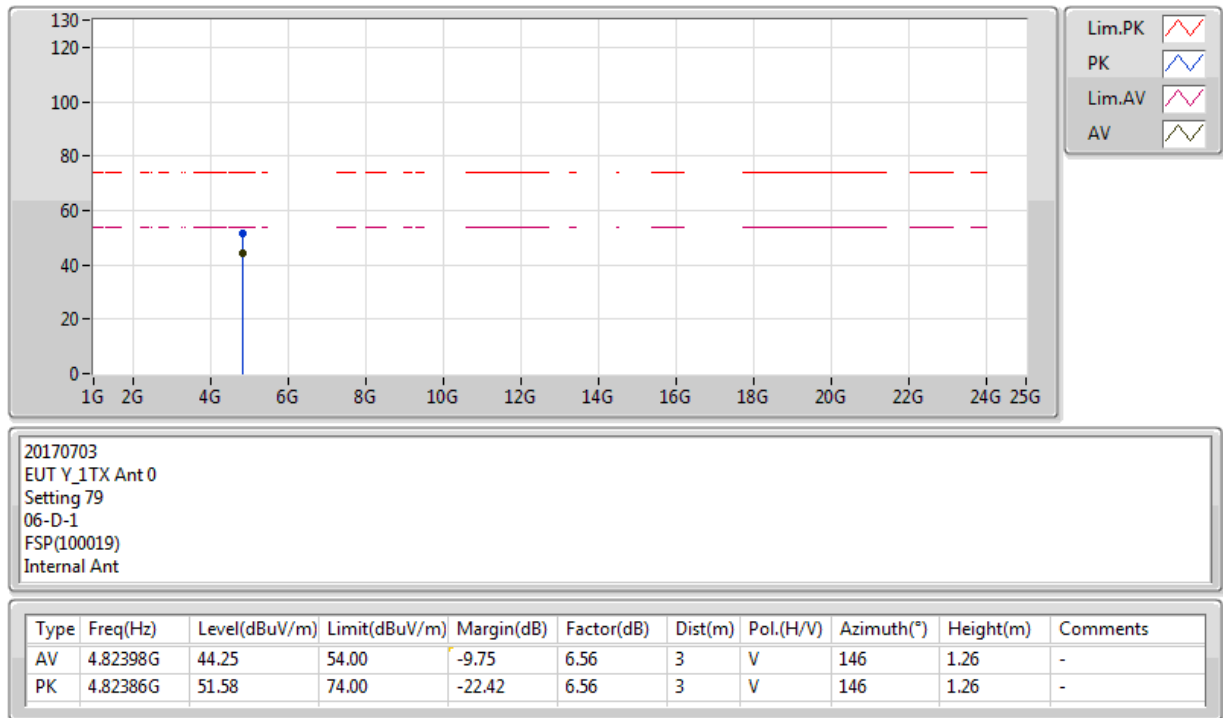


20170703  
EUT Y\_1TX Ant 0  
Setting 79  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3898G  | 49.79         | 54.00         | -4.21      | 32.01      | 3       | V         | 186        | 1.49      | -        |
| AV   | 2.413G   | 102.12        | Inf           | -Inf       | 32.08      | 3       | V         | 186        | 1.49      | -        |
| PK   | 2.39G    | 59.43         | 74.00         | -14.57     | 32.01      | 3       | V         | 186        | 1.49      | -        |
| PK   | 2.413G   | 106.07        | Inf           | -Inf       | 32.08      | 3       | V         | 186        | 1.49      | -        |

## 802.11b\_(1Mbps)\_1TX

## 2412MHz\_TX



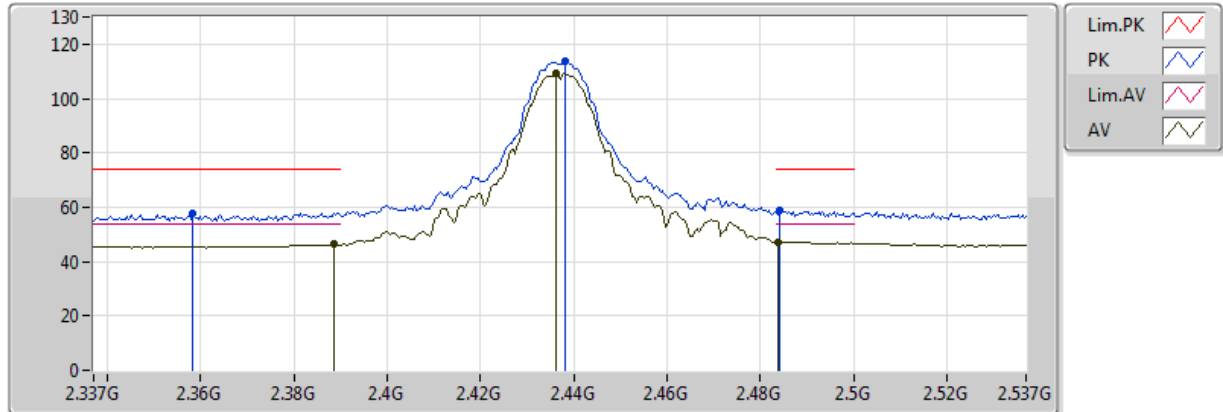
## 802.11b\_(1Mbps)\_1TX

## 2412MHz\_TX



## 802.11b\_(1Mbps)\_1TX

## 2437MHz\_TX

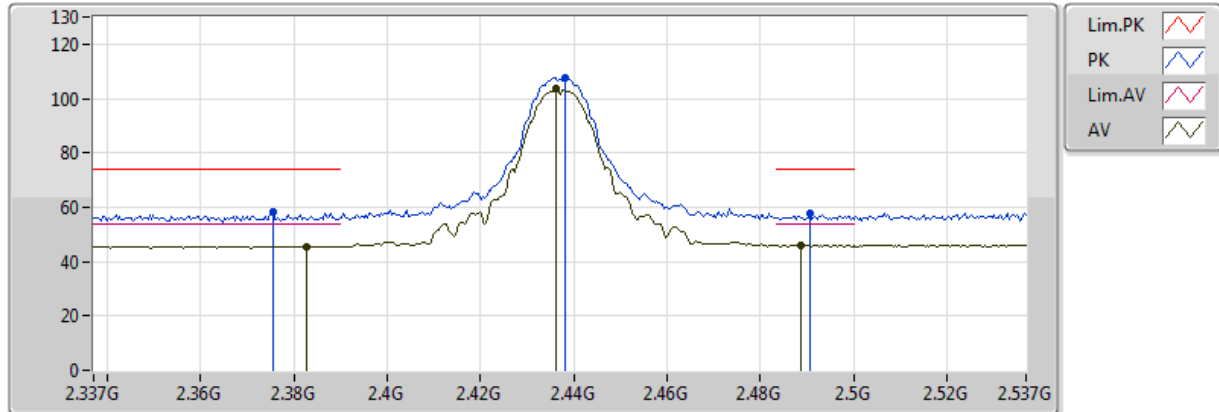


20170703  
EUT Y\_1TX Ant 0  
Setting 83  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3886G  | 46.24         | 54.00         | -7.76      | 32.00      | 3       | H         | 220        | 1.10      | -        |
| AV   | 2.4362G  | 109.25        | Inf           | -Inf       | 32.15      | 3       | H         | 220        | 1.10      | -        |
| AV   | 2.4838G  | 47.21         | 54.00         | -6.79      | 32.30      | 3       | H         | 220        | 1.10      | -        |
| PK   | 2.3582G  | 57.91         | 74.00         | -16.09     | 31.91      | 3       | H         | 220        | 1.10      | -        |
| PK   | 2.4382G  | 113.55        | Inf           | -Inf       | 32.16      | 3       | H         | 220        | 1.10      | -        |
| PK   | 2.4842G  | 58.59         | 74.00         | -15.41     | 32.30      | 3       | H         | 220        | 1.10      | -        |

## 802.11b\_(1Mbps)\_1TX

## 2437MHz\_TX

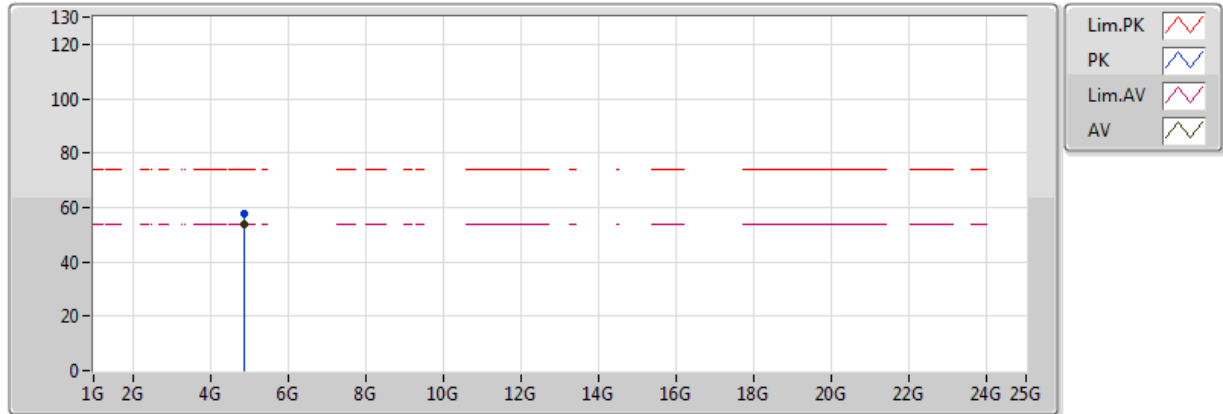


20170703  
EUT Y\_1TX Ant 0  
Setting 83  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3826G  | 45.55         | 54.00         | -8.45      | 31.99      | 3       | V         | 5          | 1.50      | -        |
| AV   | 2.4362G  | 103.42        | Inf           | -Inf       | 32.15      | 3       | V         | 5          | 1.50      | -        |
| AV   | 2.4886G  | 45.89         | 54.00         | -8.11      | 32.31      | 3       | V         | 5          | 1.50      | -        |
| PK   | 2.3754G  | 58.09         | 74.00         | -15.91     | 31.96      | 3       | V         | 5          | 1.50      | -        |
| PK   | 2.4382G  | 107.59        | Inf           | -Inf       | 32.16      | 3       | V         | 5          | 1.50      | -        |
| PK   | 2.4906G  | 57.64         | 74.00         | -16.36     | 32.32      | 3       | V         | 5          | 1.50      | -        |

## 802.11b\_(1Mbps)\_1TX

## 2437MHz\_TX



20170703  
EUT Y\_1TX Ant 0  
Setting 83  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.87394G | 53.66         | 54.00         | -0.34      | 6.72       | 3       | V         | 210        | 1.29      | -        |
| PK   | 4.87408G | 57.96         | 74.00         | -16.04     | 6.72       | 3       | V         | 210        | 1.29      | -        |

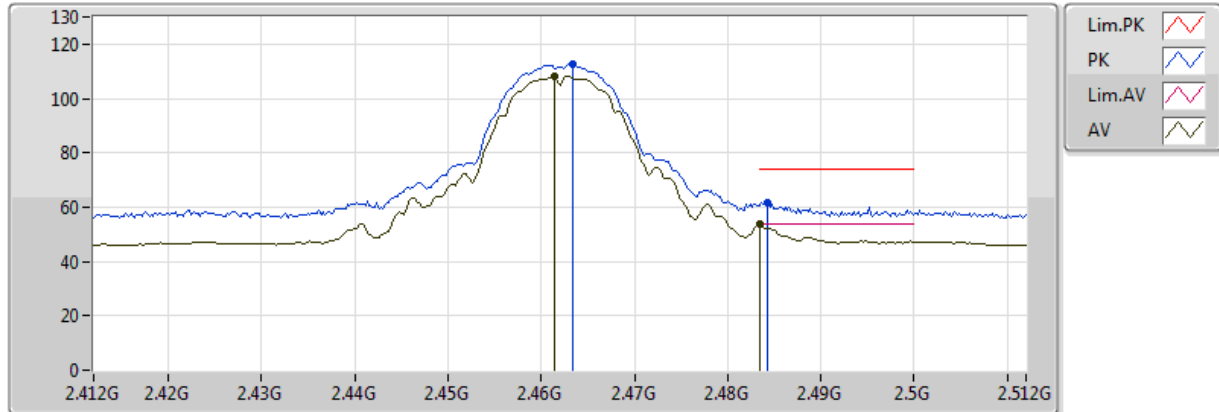
## 802.11b\_(1Mbps)\_1TX

## 2437MHz\_TX



## 802.11b\_(1Mbps)\_1TX

## 2462MHz\_TX

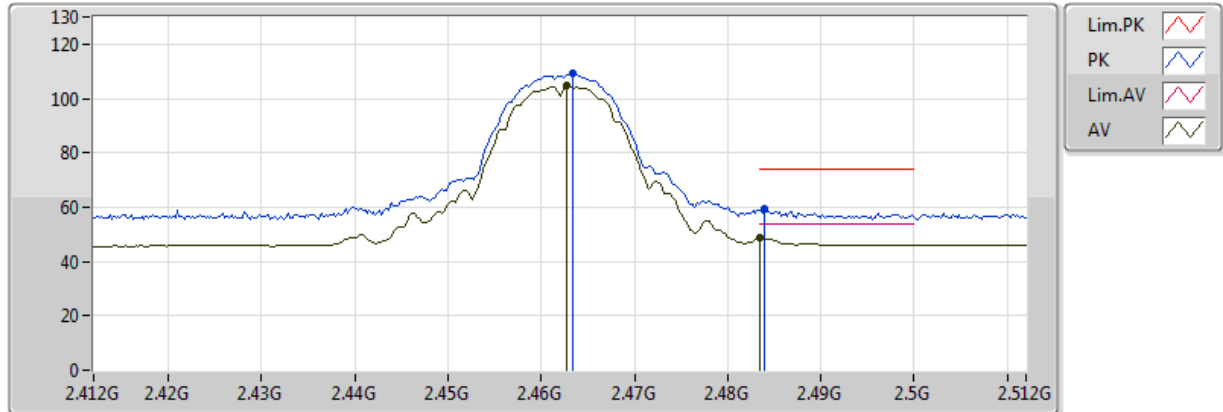


20170703  
EUT Y\_1TX Ant 0  
Setting 79  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.4614G   | 108.09        | Inf           | -Inf       | 32.23      | 3       | H         | 221        | 1.00      | -        |
| AV   | 2.483502G | 53.68         | 54.00         | -0.32      | 32.30      | 3       | H         | 221        | 1.00      | -        |
| PK   | 2.4634G   | 112.39        | Inf           | -Inf       | 32.24      | 3       | H         | 221        | 1.00      | -        |
| PK   | 2.4842G   | 61.63         | 74.00         | -12.37     | 32.30      | 3       | H         | 221        | 1.00      | -        |

## 802.11b\_(1Mbps)\_1TX

## 2462MHz\_TX

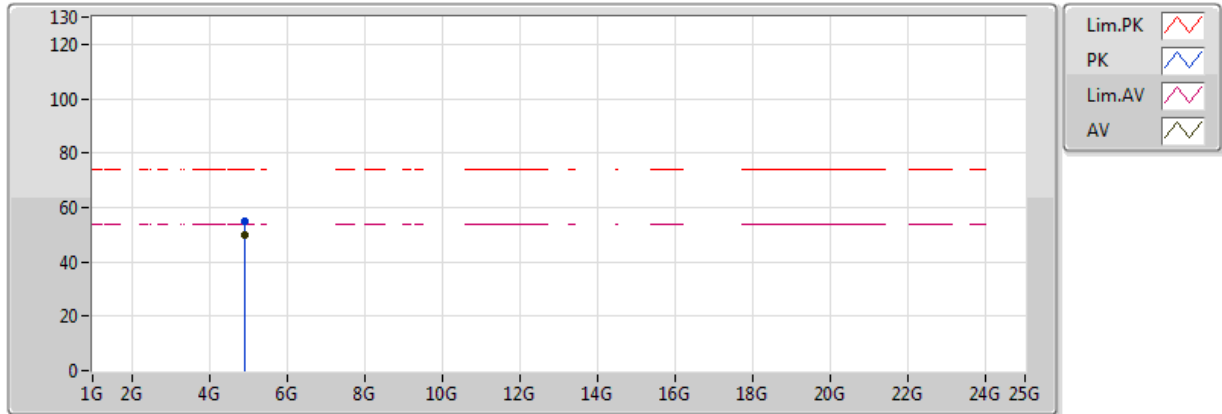


20170703  
EUT Y\_1TX Ant 0  
Setting 79  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.4628G   | 104.55        | Inf           | -Inf       | 32.23      | 3       | V         | 194        | 1.00      | -        |
| AV   | 2.483502G | 48.70         | 54.00         | -5.30      | 32.30      | 3       | V         | 194        | 1.00      | -        |
| PK   | 2.4634G   | 108.99        | Inf           | -Inf       | 32.24      | 3       | V         | 194        | 1.00      | -        |
| PK   | 2.484G    | 59.33         | 74.00         | -14.67     | 32.30      | 3       | V         | 194        | 1.00      | -        |

## 802.11b\_(1Mbps)\_1TX

## 2462MHz\_TX

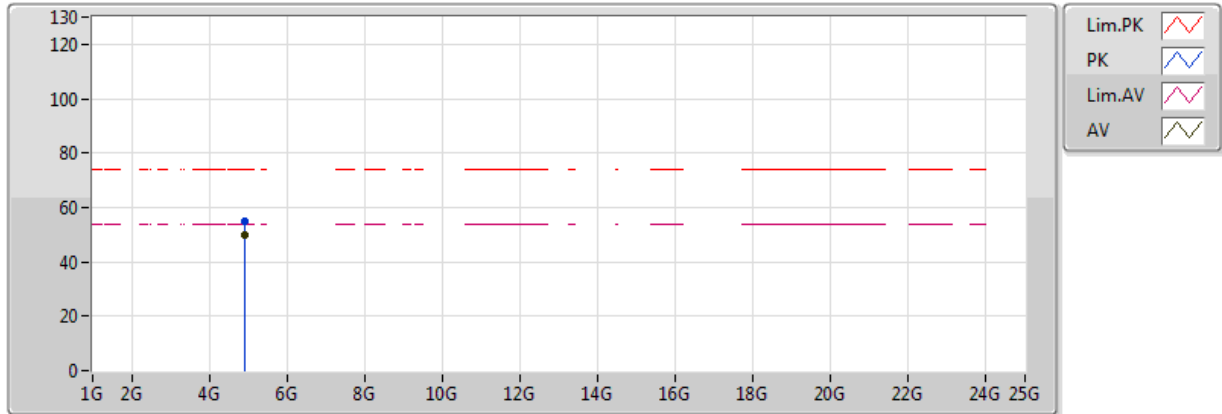


20170703  
EUT Y\_1TX Ant 0  
Setting 79  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.92398G | 49.88         | 54.00         | -4.12      | 6.87       | 3       | V         | 75         | 1.85      | -        |
| PK   | 4.92382G | 55.14         | 74.00         | -18.86     | 6.87       | 3       | V         | 75         | 1.85      | -        |

## 802.11b\_(1Mbps)\_1TX

## 2462MHz\_TX

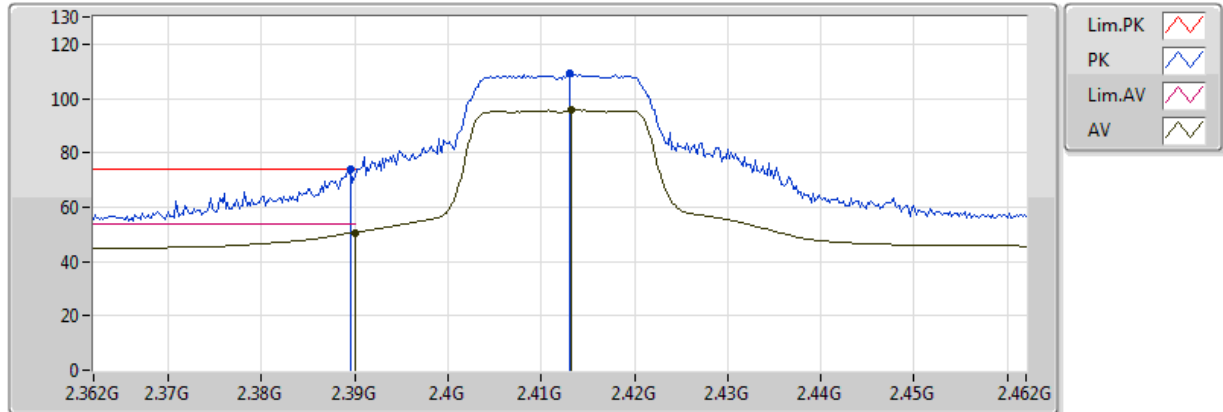


20170703  
EUT Y\_1TX Ant 0  
Setting 79  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.924G   | 49.71         | 54.00         | -4.29      | 6.87       | 3       | H         | 254        | 1.07      | -        |
| PK   | 4.92398G | 55.02         | 74.00         | -18.98     | 6.87       | 3       | H         | 254        | 1.07      | -        |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX

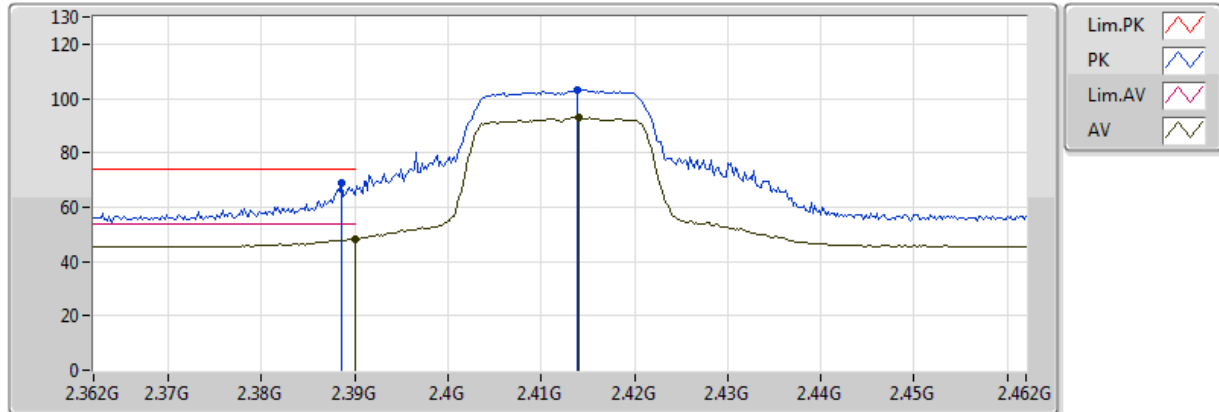


20170703  
EUT Y\_1TX Ant 0  
Setting 63  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.39G    | 50.69         | 54.00         | -3.31      | 32.01      | 3       | H         | 225        | 1.02      | -        |
| AV   | 2.4132G  | 95.69         | Inf           | -Inf       | 32.08      | 3       | H         | 225        | 1.02      | -        |
| PK   | 2.3896G  | 73.89         | 74.00         | -0.11      | 32.01      | 3       | H         | 225        | 1.02      | -        |
| PK   | 2.413G   | 109.10        | Inf           | -Inf       | 32.08      | 3       | H         | 225        | 1.02      | -        |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX



20170703  
EUT Y\_1TX Ant 0  
Setting 63  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.39G    | 48.30         | 54.00         | -5.70      | 32.01      | 3       | V         | 182        | 1.48      | -        |
| AV   | 2.414G   | 92.84         | Inf           | -Inf       | 32.08      | 3       | V         | 182        | 1.48      | -        |
| PK   | 2.3886G  | 68.80         | 74.00         | -5.20      | 32.00      | 3       | V         | 182        | 1.48      | -        |
| PK   | 2.4138G  | 103.28        | Inf           | -Inf       | 32.08      | 3       | V         | 182        | 1.48      | -        |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX



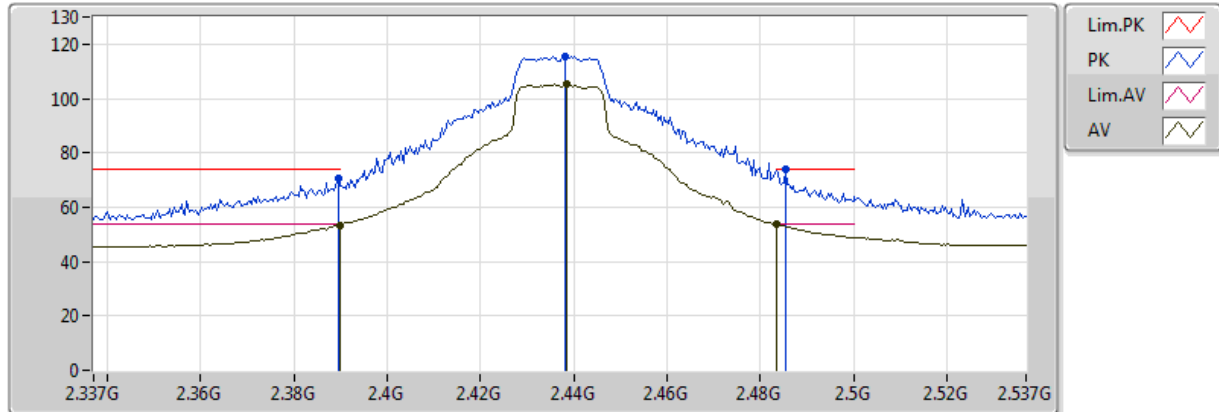
## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX



## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

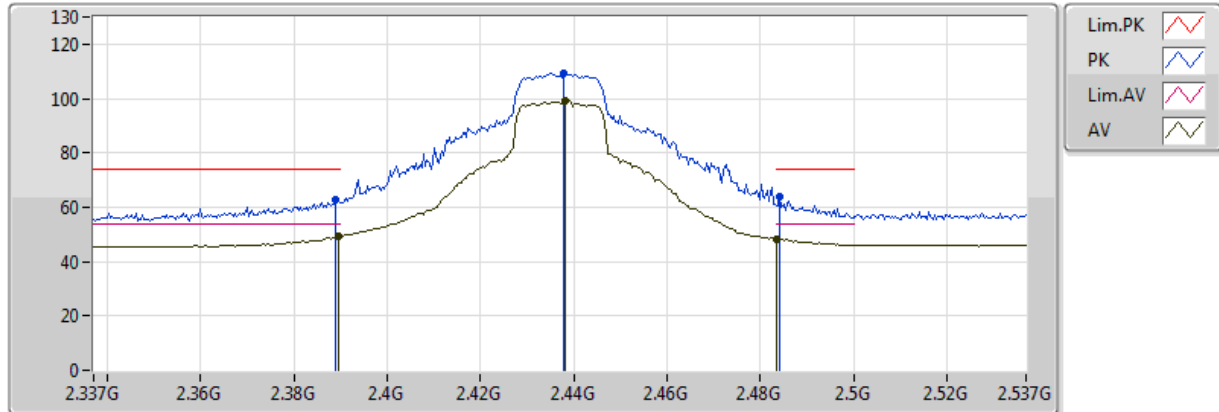


20170703  
EUT Y\_1TX Ant 0  
Setting 86  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 53.18         | 54.00         | -0.82      | 32.01      | 3       | H         | 220        | 1.09      | -        |
| AV   | 2.4386G   | 105.36        | Inf           | -Inf       | 32.16      | 3       | H         | 220        | 1.09      | -        |
| AV   | 2.483502G | 53.79         | 54.00         | -0.21      | 32.30      | 3       | H         | 220        | 1.09      | -        |
| PK   | 2.3894G   | 70.47         | 74.00         | -3.53      | 32.01      | 3       | H         | 220        | 1.09      | -        |
| PK   | 2.4382G   | 115.35        | Inf           | -Inf       | 32.16      | 3       | H         | 220        | 1.09      | -        |
| PK   | 2.4854G   | 73.97         | 74.00         | -0.03      | 32.30      | 3       | H         | 220        | 1.09      | -        |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX



20170703  
EUT Y\_1TX Ant 0  
Setting 86  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3894G   | 49.13         | 54.00         | -4.87      | 32.01      | 3       | V         | 4          | 1.50      | -        |
| AV   | 2.4382G   | 99.22         | Inf           | -Inf       | 32.16      | 3       | V         | 4          | 1.50      | -        |
| AV   | 2.483502G | 48.16         | 54.00         | -5.84      | 32.30      | 3       | V         | 4          | 1.50      | -        |
| PK   | 2.389G    | 62.68         | 74.00         | -11.32     | 32.01      | 3       | V         | 4          | 1.50      | -        |
| PK   | 2.4378G   | 109.38        | Inf           | -Inf       | 32.16      | 3       | V         | 4          | 1.50      | -        |
| PK   | 2.4842G   | 63.92         | 74.00         | -10.08     | 32.30      | 3       | V         | 4          | 1.50      | -        |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX



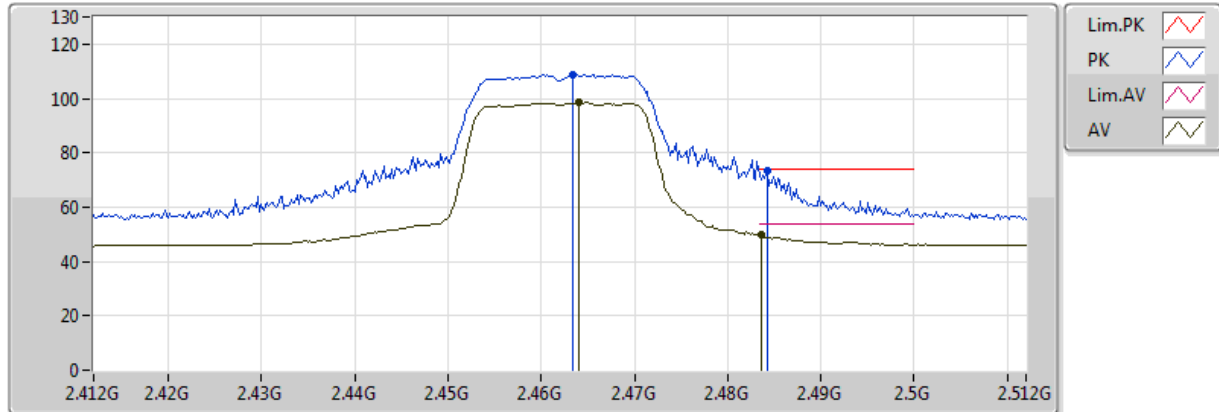
## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX



## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX

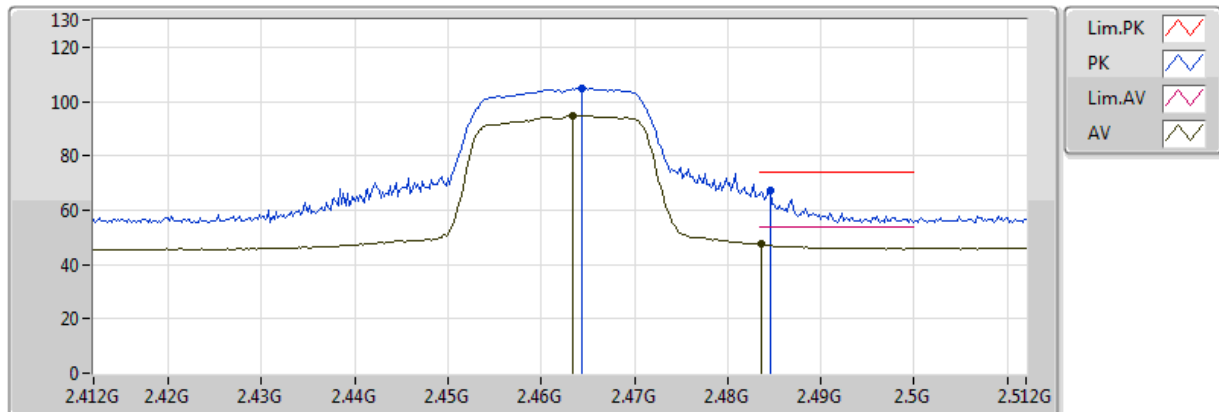


20170703  
EUT Y\_1TX Ant 0  
Setting 58  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.464G   | 98.41         | Inf           | -Inf       | 32.24      | 3       | H         | 223        | 1.02      | -        |
| AV   | 2.4836G  | 50.05         | 54.00         | -3.95      | 32.30      | 3       | H         | 223        | 1.02      | -        |
| PK   | 2.4634G  | 108.74        | Inf           | -Inf       | 32.24      | 3       | H         | 223        | 1.02      | -        |
| PK   | 2.4842G  | 73.42         | 74.00         | -0.58      | 32.30      | 3       | H         | 223        | 1.02      | -        |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX



20170703  
EUT Y\_1TX Ant 0  
Setting 58  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.4634G  | 94.80         | Inf           | -Inf       | 32.24      | 3       | V         | 196        | 1.00      | -        |
| AV   | 2.4836G  | 47.35         | 54.00         | -6.65      | 32.30      | 3       | V         | 196        | 1.00      | -        |
| PK   | 2.4644G  | 104.93        | Inf           | -Inf       | 32.24      | 3       | V         | 196        | 1.00      | -        |
| PK   | 2.4846G  | 67.03         | 74.00         | -6.97      | 32.30      | 3       | V         | 196        | 1.00      | -        |

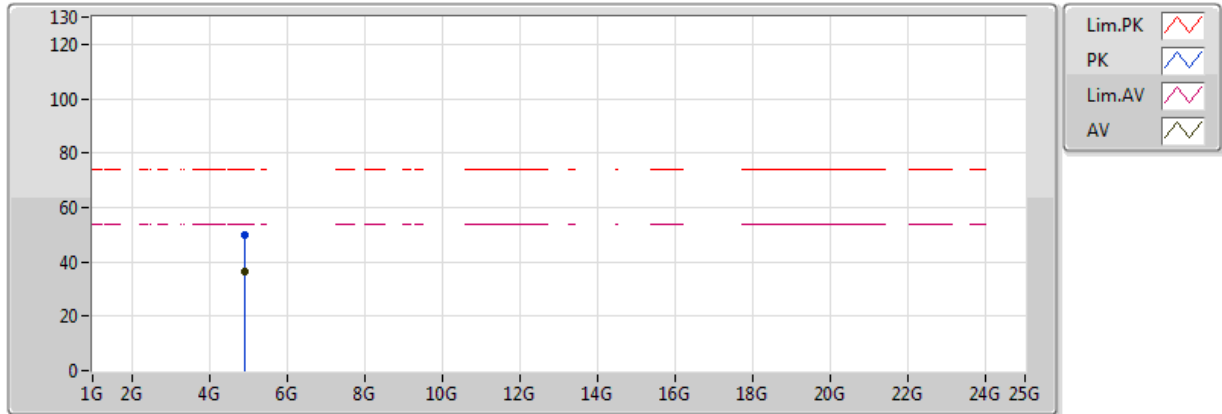
## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX



## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## 2462MHz\_TX

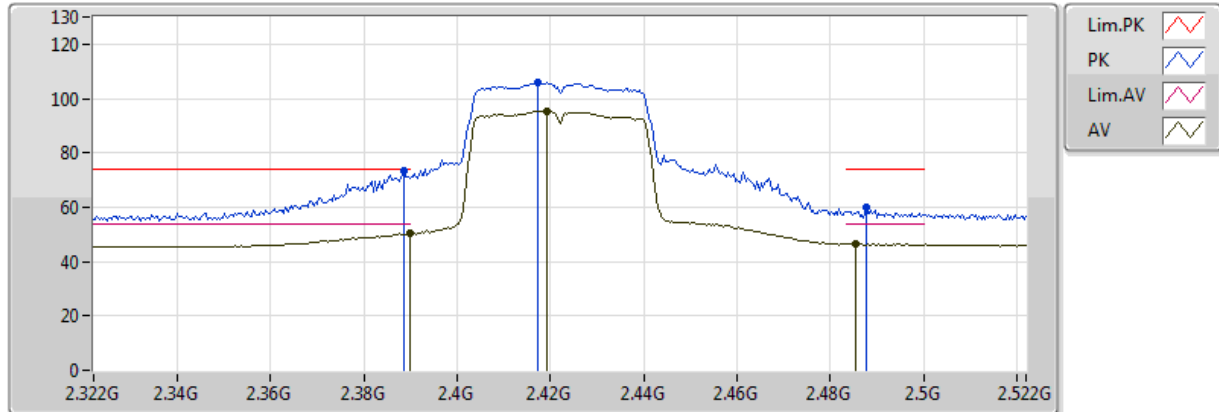


20170703  
EUT Y\_1TX Ant 0  
Setting 58  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.92678G | 36.17         | 54.00         | -17.83     | 6.88       | 3       | V         | 104        | 1.77      | -        |
| PK   | 4.92266G | 49.92         | 74.00         | -24.08     | 6.87       | 3       | V         | 104        | 1.77      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX

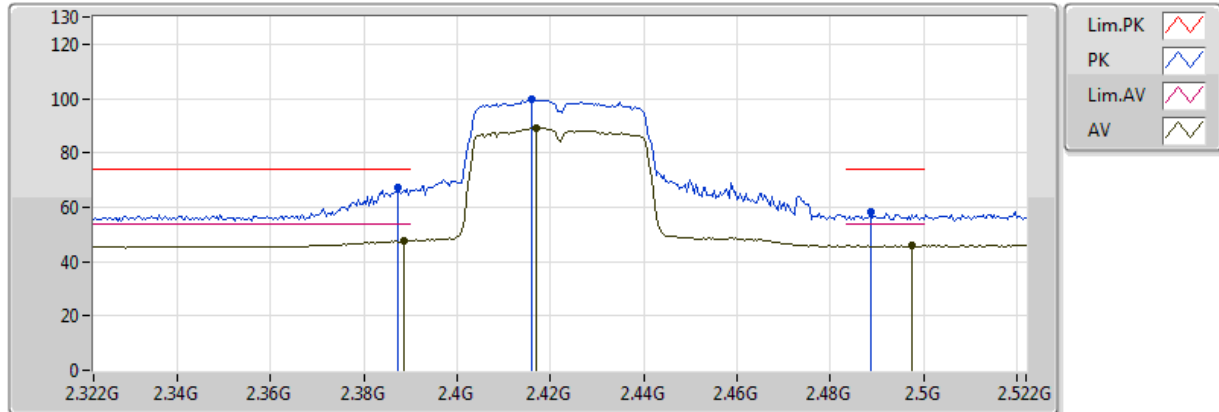


20170703  
EUT Y\_1TX Ant 0  
Setting 56  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.39G    | 50.51         | 54.00         | -3.49      | 32.01      | 3       | H         | 224        | 1.02      | -        |
| AV   | 2.4192G  | 95.37         | Inf           | -Inf       | 32.10      | 3       | H         | 224        | 1.02      | -        |
| AV   | 2.4856G  | 46.50         | 54.00         | -7.50      | 32.31      | 3       | H         | 224        | 1.02      | -        |
| PK   | 2.3884G  | 73.44         | 74.00         | -0.56      | 32.00      | 3       | H         | 224        | 1.02      | -        |
| PK   | 2.4172G  | 105.66        | Inf           | -Inf       | 32.09      | 3       | H         | 224        | 1.02      | -        |
| PK   | 2.4876G  | 60.07         | 74.00         | -13.93     | 32.31      | 3       | H         | 224        | 1.02      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX

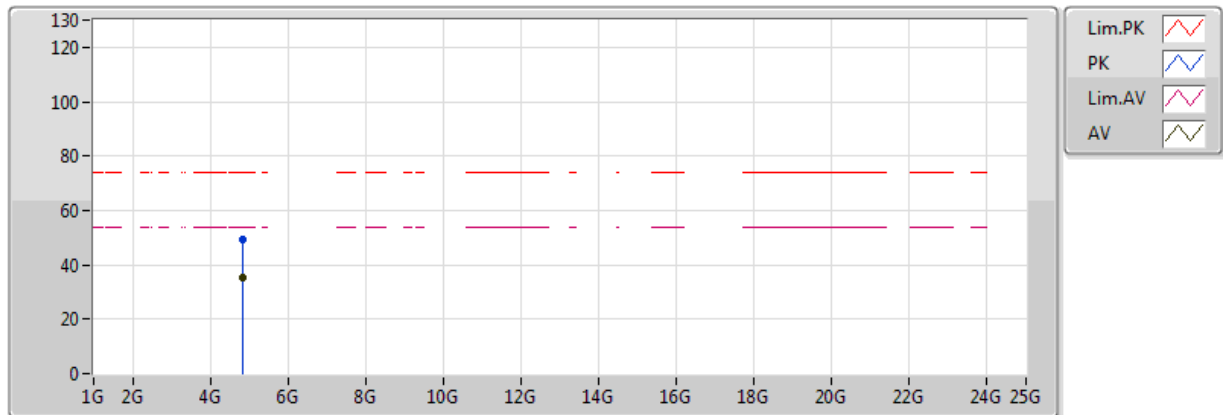


20170703  
EUT Y\_1TX Ant 0  
Setting 56  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3884G  | 47.58         | 54.00         | -6.42      | 32.00      | 3       | V         | 183        | 1.50      | -        |
| AV   | 2.4168G  | 89.18         | Inf           | -Inf       | 32.09      | 3       | V         | 183        | 1.50      | -        |
| AV   | 2.4976G  | 45.81         | 54.00         | -8.19      | 32.34      | 3       | V         | 183        | 1.50      | -        |
| PK   | 2.3872G  | 67.07         | 74.00         | -6.93      | 32.00      | 3       | V         | 183        | 1.50      | -        |
| PK   | 2.416G   | 99.54         | Inf           | -Inf       | 32.09      | 3       | V         | 183        | 1.50      | -        |
| PK   | 2.4888G  | 58.37         | 74.00         | -15.63     | 32.32      | 3       | V         | 183        | 1.50      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX



20170703  
EUT Y\_1TX Ant 0  
Setting 56  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.84892G | 35.58         | 54.00         | -18.42     | 6.64       | 3       | H         | 182        | 2.07      | -        |
| PK   | 4.8433G  | 49.17         | 74.00         | -24.83     | 6.62       | 3       | H         | 182        | 2.07      | -        |

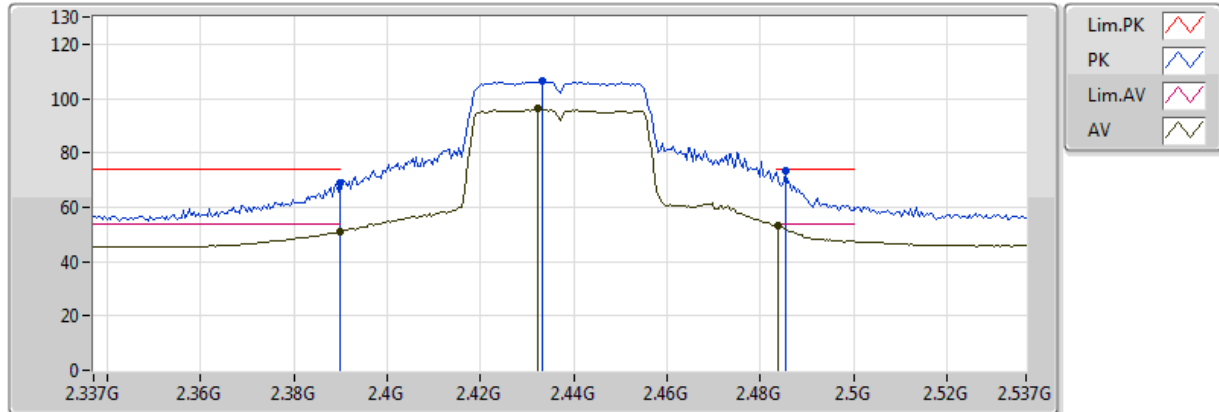
## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2422MHz\_TX



## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

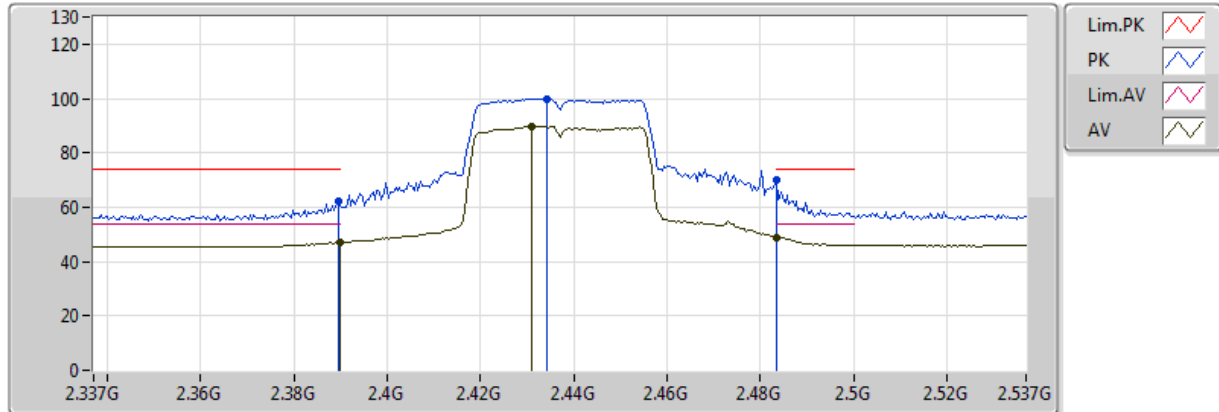


20170703  
EUT Y\_1TX Ant 0  
Setting 62  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 51.07         | 54.00         | -2.93      | 32.01      | 3       | H         | 220        | 1.09      | -        |
| AV   | 2.4322G   | 96.19         | Inf           | -Inf       | 32.14      | 3       | H         | 220        | 1.09      | -        |
| AV   | 2.4838G   | 53.21         | 54.00         | -0.79      | 32.30      | 3       | H         | 220        | 1.09      | -        |
| PK   | 2.389998G | 68.94         | 74.00         | -5.06      | 32.01      | 3       | H         | 220        | 1.09      | -        |
| PK   | 2.4334G   | 106.34        | Inf           | -Inf       | 32.14      | 3       | H         | 220        | 1.09      | -        |
| PK   | 2.4854G   | 73.56         | 74.00         | -0.44      | 32.30      | 3       | H         | 220        | 1.09      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

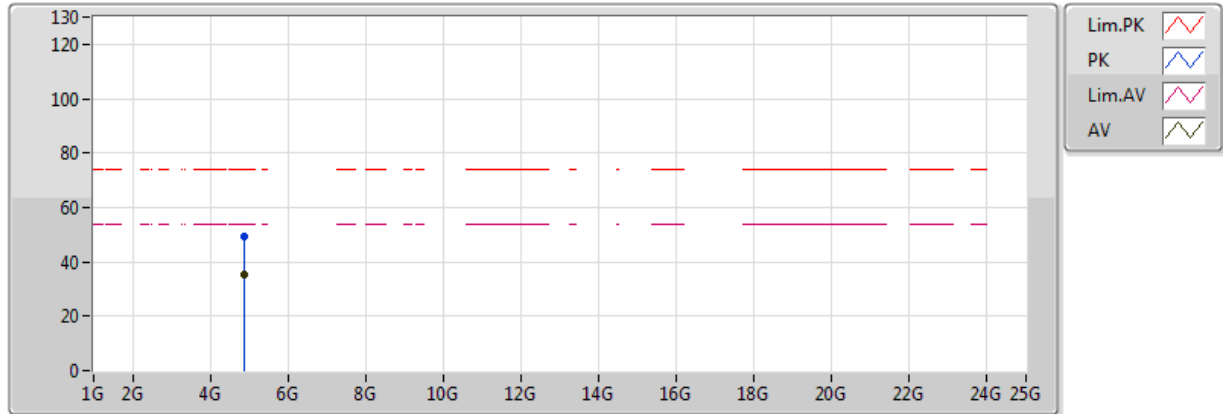


20170703  
EUT Y\_1TX Ant 0  
Setting 62  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 47.04         | 54.00         | -6.96      | 32.01      | 3       | V         | 45         | 1.47      | -        |
| AV   | 2.431G    | 89.85         | Inf           | -Inf       | 32.14      | 3       | V         | 45         | 1.47      | -        |
| AV   | 2.483502G | 48.99         | 54.00         | -5.01      | 32.30      | 3       | V         | 45         | 1.47      | -        |
| PK   | 2.3894G   | 62.00         | 74.00         | -12.00     | 32.01      | 3       | V         | 45         | 1.47      | -        |
| PK   | 2.4342G   | 99.88         | Inf           | -Inf       | 32.15      | 3       | V         | 45         | 1.47      | -        |
| PK   | 2.483502G | 69.83         | 74.00         | -4.17      | 32.30      | 3       | V         | 45         | 1.47      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

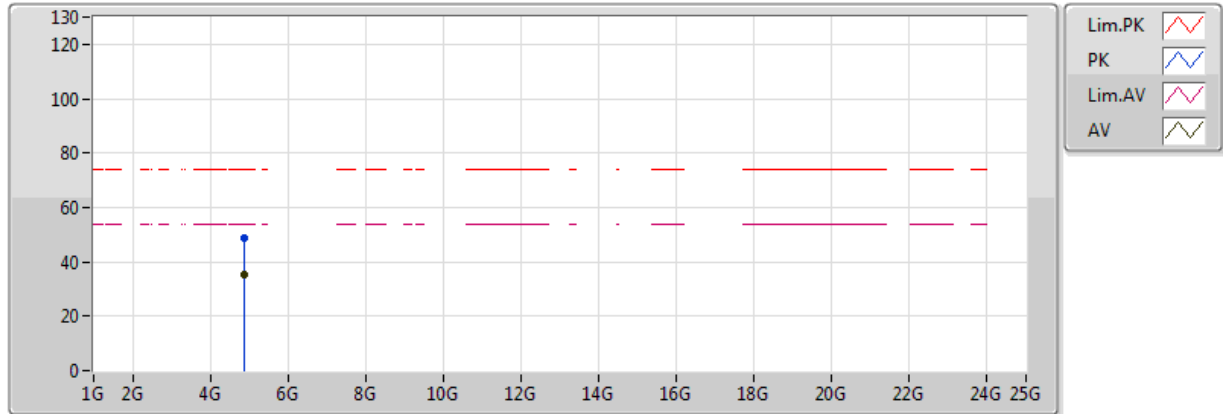


20170703  
EUT Y\_1TX Ant 0  
Setting 62  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.86968G | 35.55         | 54.00         | -18.45     | 6.71       | 3       | V         | 61         | 1.25      | -        |
| PK   | 4.87788G | 49.21         | 74.00         | -24.79     | 6.73       | 3       | V         | 61         | 1.25      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2437MHz\_TX

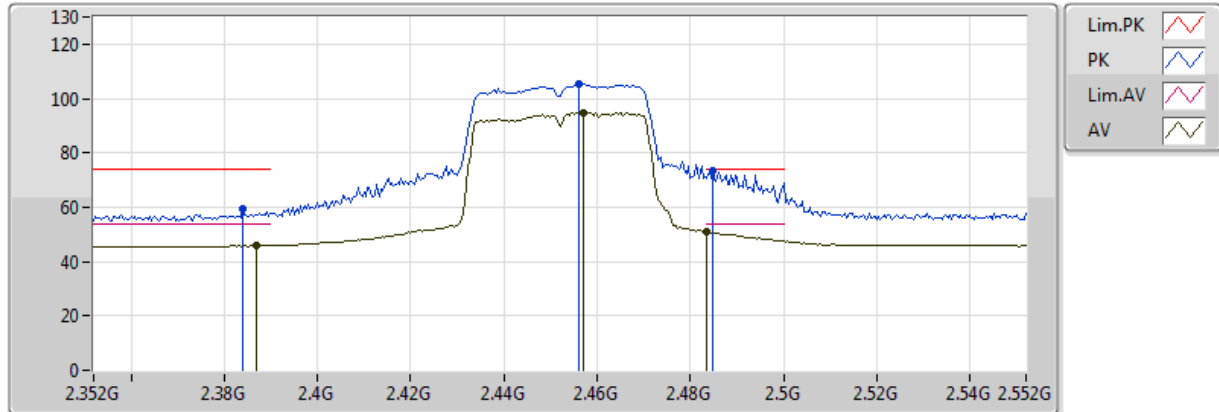


20170703  
EUT Y\_1TX Ant 0  
Setting 62  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.87728G | 35.55         | 54.00         | -18.45     | 6.73       | 3       | H         | 130        | 1.39      | -        |
| PK   | 4.877G   | 49.02         | 74.00         | -24.98     | 6.73       | 3       | H         | 130        | 1.39      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX

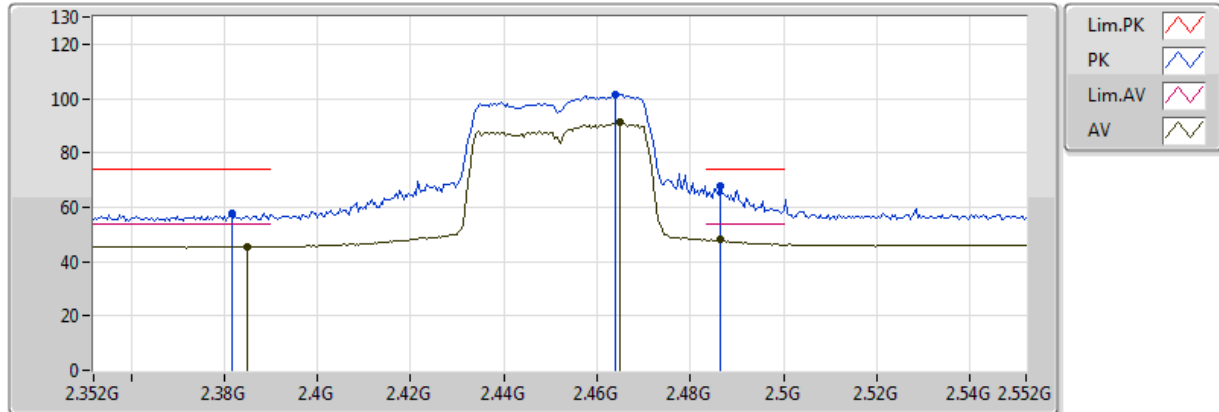


20170703  
EUT Y\_1TX Ant 0  
Setting 53  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3868G  | 46.14         | 54.00         | -7.86      | 32.00      | 3       | H         | 222        | 1.00      | -        |
| AV   | 2.4572G  | 94.95         | Inf           | -Inf       | 32.22      | 3       | H         | 222        | 1.00      | -        |
| AV   | 2.4836G  | 50.99         | 54.00         | -3.01      | 32.30      | 3       | H         | 222        | 1.00      | -        |
| PK   | 2.384G   | 59.25         | 74.00         | -14.75     | 31.99      | 3       | H         | 222        | 1.00      | -        |
| PK   | 2.456G   | 105.12        | Inf           | -Inf       | 32.21      | 3       | H         | 222        | 1.00      | -        |
| PK   | 2.4848G  | 73.66         | 74.00         | -0.34      | 32.30      | 3       | H         | 222        | 1.00      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX

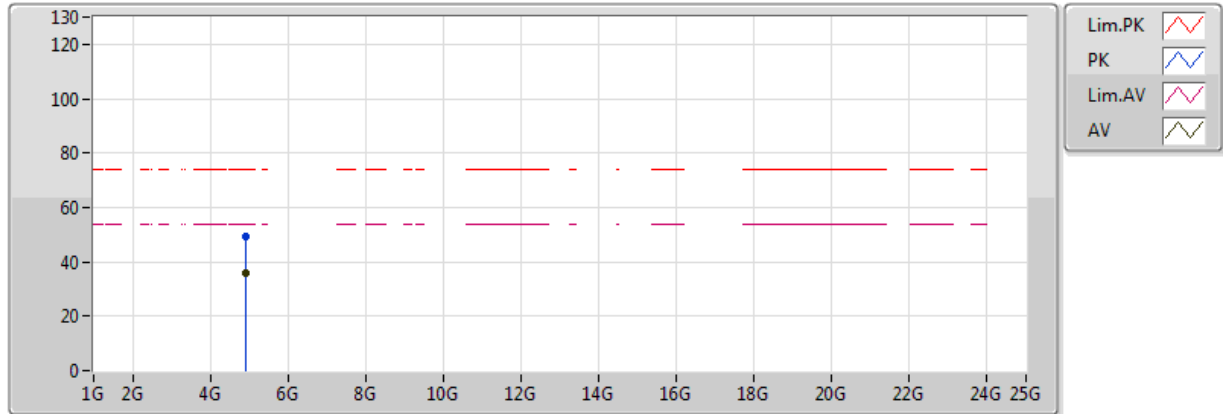


20170703  
EUT Y\_1TX Ant 0  
Setting 53  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3848G  | 45.64         | 54.00         | -8.36      | 31.99      | 3       | V         | 196        | 1.00      | -        |
| AV   | 2.4648G  | 91.08         | Inf           | -Inf       | 32.24      | 3       | V         | 196        | 1.00      | -        |
| AV   | 2.4864G  | 47.97         | 54.00         | -6.03      | 32.31      | 3       | V         | 196        | 1.00      | -        |
| PK   | 2.3816G  | 57.91         | 74.00         | -16.09     | 31.98      | 3       | V         | 196        | 1.00      | -        |
| PK   | 2.464G   | 101.59        | Inf           | -Inf       | 32.24      | 3       | V         | 196        | 1.00      | -        |
| PK   | 2.4864G  | 67.54         | 74.00         | -6.46      | 32.31      | 3       | V         | 196        | 1.00      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX

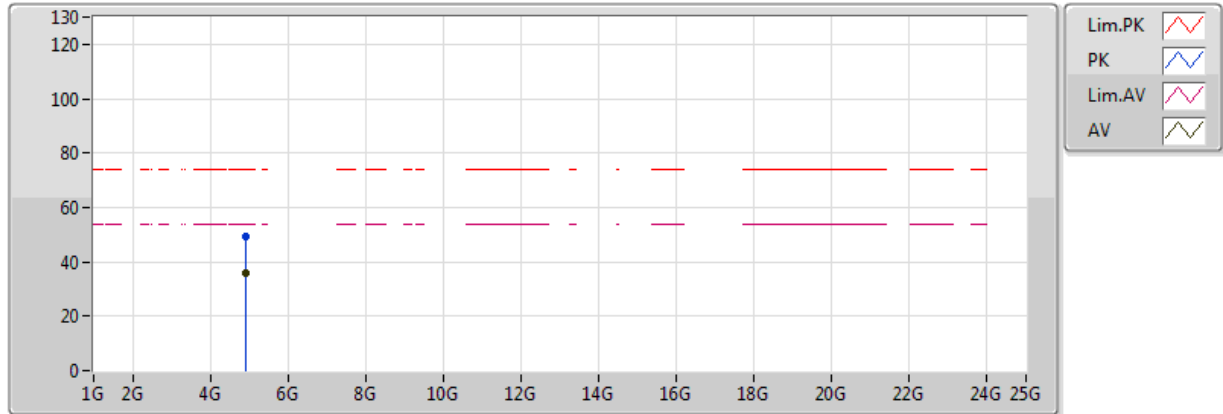


20170703  
EUT Y\_1TX Ant 0  
Setting 53  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.90578G | 35.75         | 54.00         | -18.25     | 6.82       | 3       | V         | 306        | 1.25      | -        |
| PK   | 4.90238G | 49.51         | 74.00         | -24.49     | 6.81       | 3       | V         | 306        | 1.25      | -        |

## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## 2452MHz\_TX



20170703  
EUT Y\_1TX Ant 0  
Setting 53  
06-D-1  
FSP(100019)  
Internal Ant

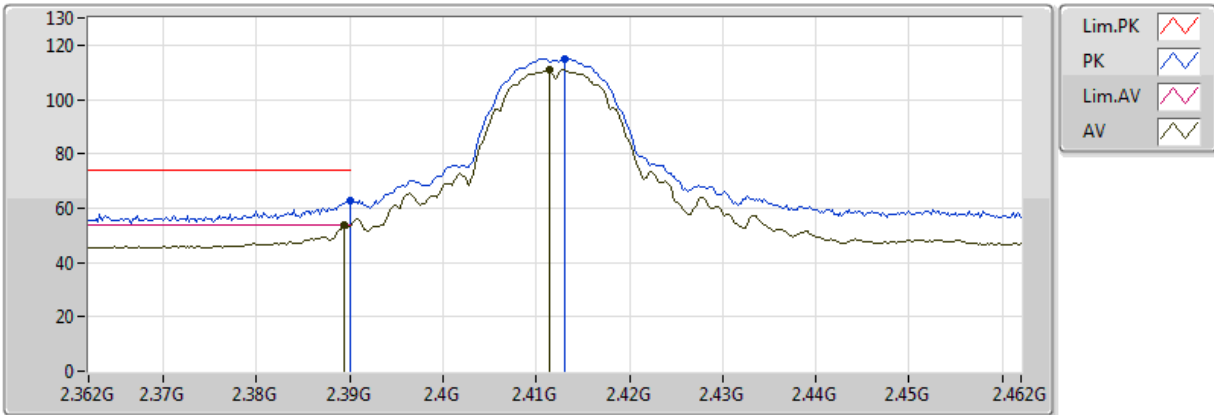
| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.90668G | 35.75         | 54.00         | -18.25     | 6.82       | 3       | H         | 305        | 2.19      | -        |
| PK   | 4.90402G | 49.45         | 74.00         | -24.55     | 6.81       | 3       | H         | 305        | 2.19      | -        |

**For 2TX:  
Summary**

| Mode                              | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Pol.<br>(H/V) | Azimuth<br>(°) | Height<br>(m) | Comments |
|-----------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|---------------|----------------|---------------|----------|
| 802.11ac VHT40-BF_Nss1,(MCS0)_2TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -             | -              | -             | -        |
| 2.4-2.4835GHz                     | Pass   | PK   | 2.389998G    | 73.98             | 74.00             | -0.02          | 32.01          | 3           | H             | 306            | 1.83          | -        |

## 802.11b\_(1Mbps)\_2TX

## 2412MHz\_TX

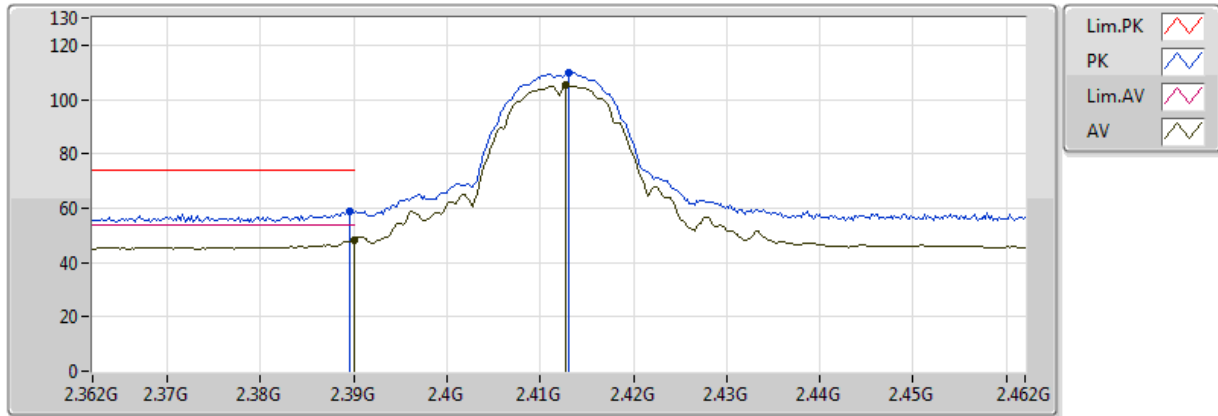


20170703  
EUT Y\_2TX Ant 0+1  
Setting 79  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3894G  | 53.58         | 54.00         | -0.42      | 32.01      | 3       | H         | 233        | 1.95      | -        |
| AV   | 2.4114G  | 110.97        | Inf           | -Inf       | 32.08      | 3       | H         | 233        | 1.95      | -        |
| PK   | 2.39G    | 62.91         | 74.00         | -11.09     | 32.01      | 3       | H         | 233        | 1.95      | -        |
| PK   | 2.413G   | 115.10        | Inf           | -Inf       | 32.08      | 3       | H         | 233        | 1.95      | -        |

## 802.11b\_(1Mbps)\_2TX

## 2412MHz\_TX



20170703  
EUT Y\_2TX Ant 0+1  
Setting 79  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.39G    | 48.02         | 54.00         | -5.98      | 32.01      | 3       | V         | 176        | 1.96      | -        |
| AV   | 2.4128G  | 105.20        | Inf           | -Inf       | 32.08      | 3       | V         | 176        | 1.96      | -        |
| PK   | 2.3896G  | 58.78         | 74.00         | -15.22     | 32.01      | 3       | V         | 176        | 1.96      | -        |
| PK   | 2.413G   | 109.74        | Inf           | -Inf       | 32.08      | 3       | V         | 176        | 1.96      | -        |

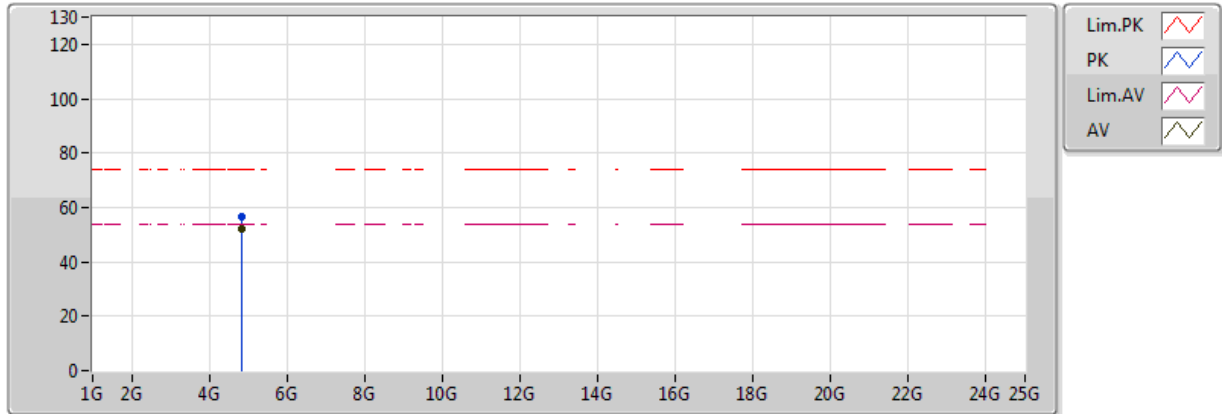
## 802.11b\_(1Mbps)\_2TX

## 2412MHz\_TX



## 802.11b\_(1Mbps)\_2TX

## 2412MHz\_TX

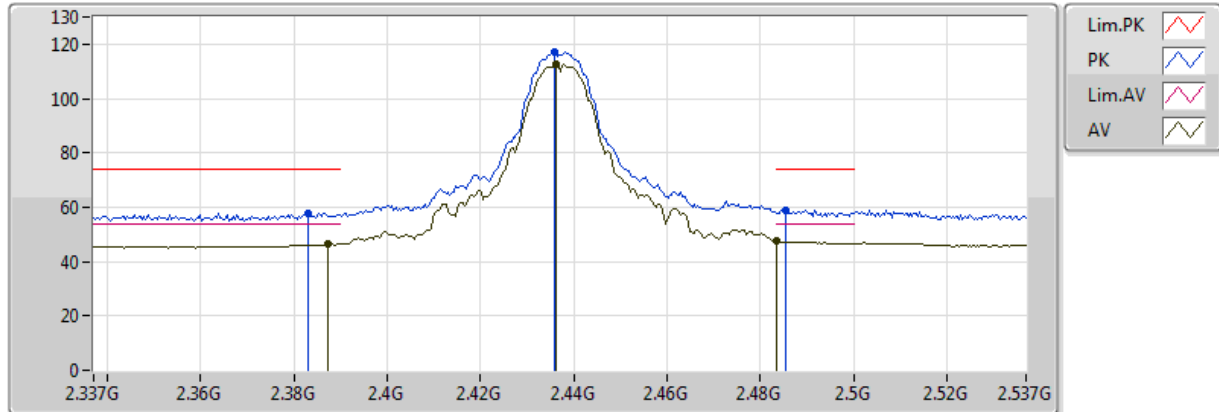


20170703  
EUT Y\_2TX Ant 0+1  
Setting 79  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.82397G | 52.20         | 54.00         | -1.80      | 6.56       | 3       | V         | 14         | 1.94      | -        |
| PK   | 4.82398G | 56.68         | 74.00         | -17.32     | 6.56       | 3       | V         | 14         | 1.94      | -        |

## 802.11b\_(1Mbps)\_2TX

## 2437MHz\_TX

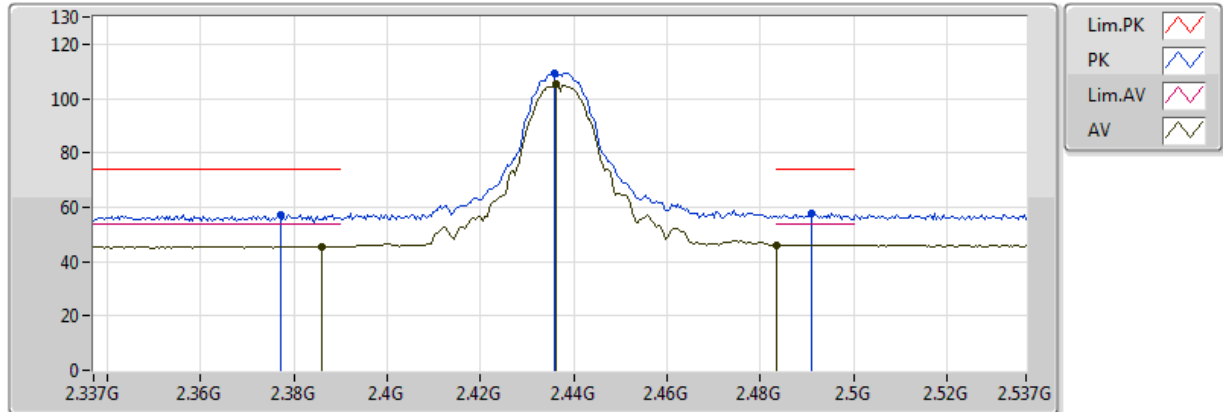


20170703  
EUT Y\_2TX Ant 0+1  
Setting 80  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3874G   | 46.50         | 54.00         | -7.50      | 32.00      | 3       | H         | 233        | 1.78      | -        |
| AV   | 2.4362G   | 112.61        | Inf           | -Inf       | 32.15      | 3       | H         | 233        | 1.78      | -        |
| AV   | 2.483502G | 47.64         | 54.00         | -6.36      | 32.30      | 3       | H         | 233        | 1.78      | -        |
| PK   | 2.383G    | 57.88         | 74.00         | -16.12     | 31.99      | 3       | H         | 233        | 1.78      | -        |
| PK   | 2.4358G   | 116.93        | Inf           | -Inf       | 32.15      | 3       | H         | 233        | 1.78      | -        |
| PK   | 2.4854G   | 59.06         | 74.00         | -14.94     | 32.30      | 3       | H         | 233        | 1.78      | -        |

## 802.11b\_(1Mbps)\_2TX

## 2437MHz\_TX

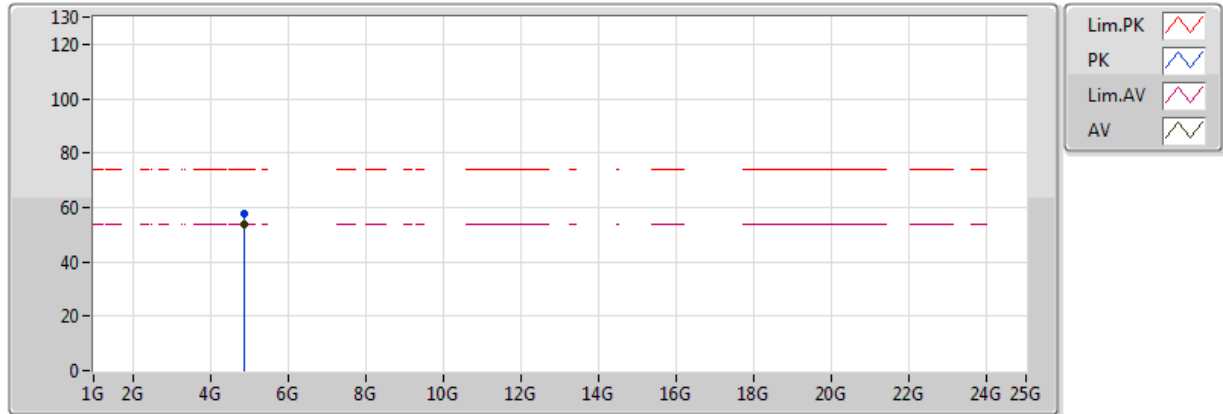


20170703  
EUT Y\_2TX Ant 0+1  
Setting 80  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3858G   | 45.55         | 54.00         | -8.45      | 32.00      | 3       | V         | 326        | 1.29      | -        |
| AV   | 2.4362G   | 105.21        | Inf           | -Inf       | 32.15      | 3       | V         | 326        | 1.29      | -        |
| AV   | 2.483502G | 46.10         | 54.00         | -7.90      | 32.30      | 3       | V         | 326        | 1.29      | -        |
| PK   | 2.377G    | 57.43         | 74.00         | -16.57     | 31.97      | 3       | V         | 326        | 1.29      | -        |
| PK   | 2.4358G   | 109.46        | Inf           | -Inf       | 32.15      | 3       | V         | 326        | 1.29      | -        |
| PK   | 2.491G    | 57.73         | 74.00         | -16.27     | 32.32      | 3       | V         | 326        | 1.29      | -        |

## 802.11b\_(1Mbps)\_2TX

## 2437MHz\_TX



20170703  
EUT Y\_2TX Ant 0+1  
Setting 80  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.873952G | 53.92         | 54.00         | -0.08      | 6.72       | 3       | V         | 22         | 1.93      | -        |
| PK   | 4.874024G | 57.98         | 74.00         | -16.02     | 6.72       | 3       | V         | 22         | 1.93      | -        |

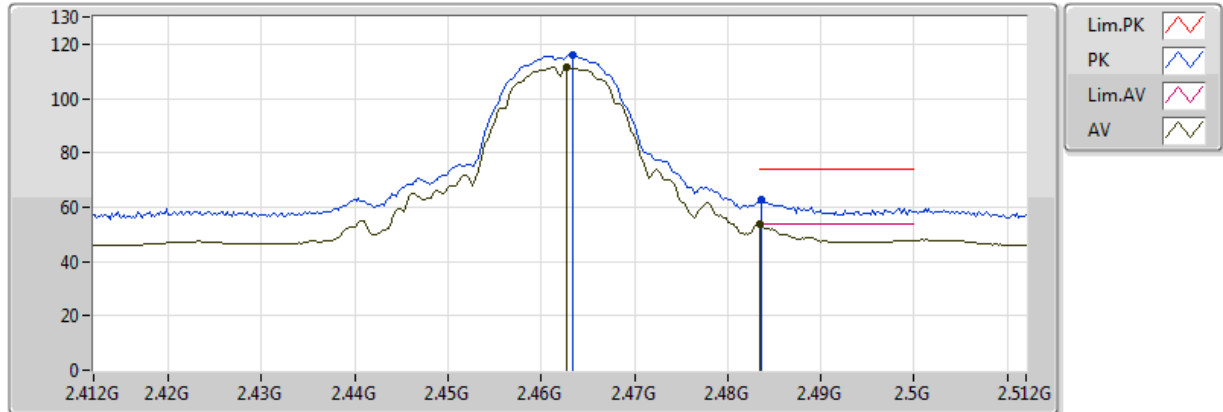
## 802.11b\_(1Mbps)\_2TX

## 2437MHz\_TX



## 802.11b\_(1Mbps)\_2TX

## 2462MHz\_TX

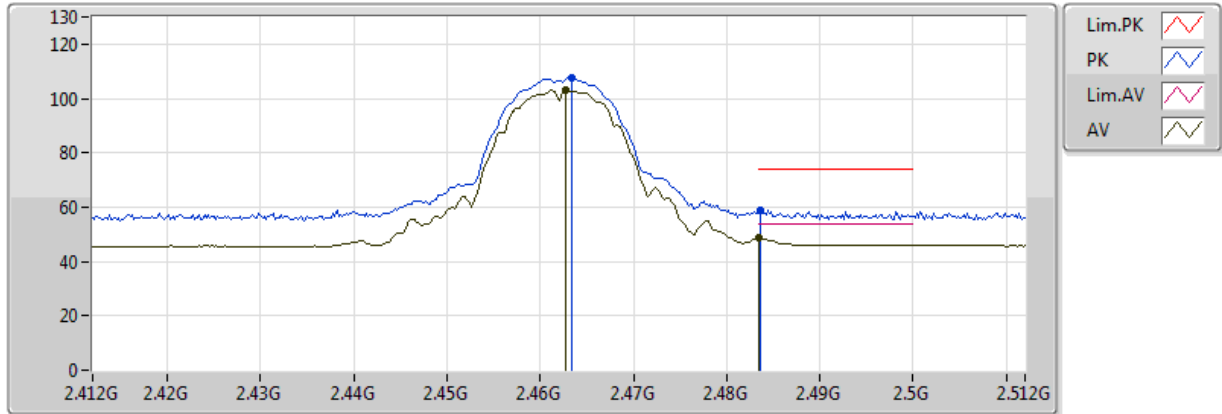


20170703  
EUT Y\_2TX Ant 0+1  
Setting 78  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.4628G   | 111.47        | Inf           | -Inf       | 32.23      | 3       | H         | 230        | 1.73      | -        |
| AV   | 2.483502G | 53.93         | 54.00         | -0.07      | 32.30      | 3       | H         | 230        | 1.73      | -        |
| PK   | 2.4634G   | 115.84        | Inf           | -Inf       | 32.24      | 3       | H         | 230        | 1.73      | -        |
| PK   | 2.4836G   | 62.54         | 74.00         | -11.46     | 32.30      | 3       | H         | 230        | 1.73      | -        |

## 802.11b\_(1Mbps)\_2TX

## 2462MHz\_TX



20170703  
EUT Y\_2TX Ant 0+1  
Setting 78  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.4628G   | 103.01        | Inf           | -Inf       | 32.23      | 3       | V         | 58         | 1.44      | -        |
| AV   | 2.483502G | 48.54         | 54.00         | -5.46      | 32.30      | 3       | V         | 58         | 1.44      | -        |
| PK   | 2.4634G   | 107.48        | Inf           | -Inf       | 32.24      | 3       | V         | 58         | 1.44      | -        |
| PK   | 2.4836G   | 58.85         | 74.00         | -15.15     | 32.30      | 3       | V         | 58         | 1.44      | -        |

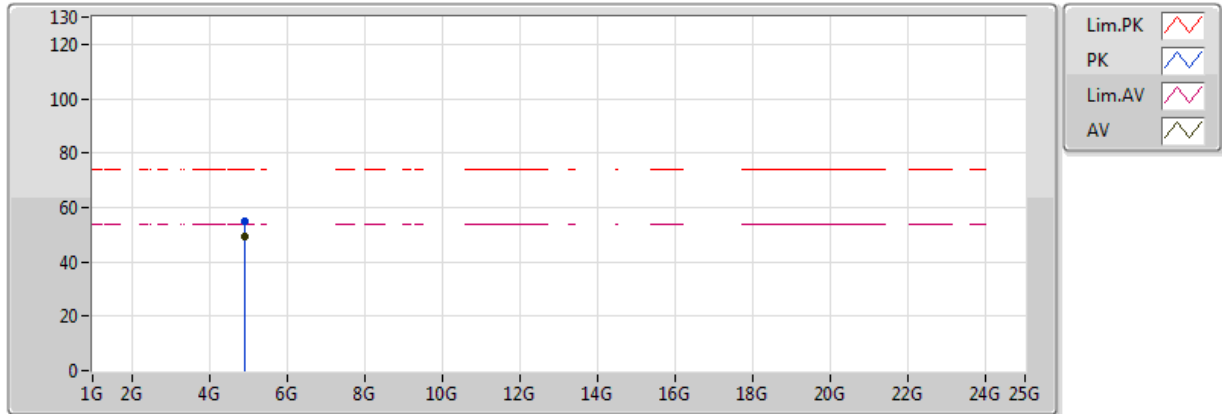
## 802.11b\_(1Mbps)\_2TX

## 2462MHz\_TX



## 802.11b\_(1Mbps)\_2TX

## 2462MHz\_TX

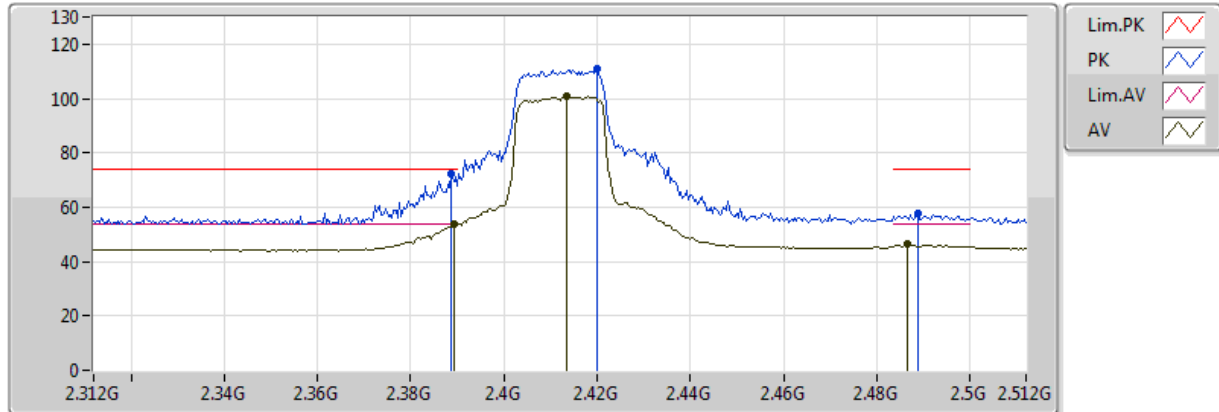


20170703  
EUT Y\_2TX Ant 0+1  
Setting 78  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.92391G  | 49.18         | 54.00         | -4.82      | 6.87       | 3       | H         | 0          | 1.39      | -        |
| PK   | 4.923712G | 54.76         | 74.00         | -19.24     | 6.87       | 3       | H         | 0          | 1.39      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2412MHz\_TX

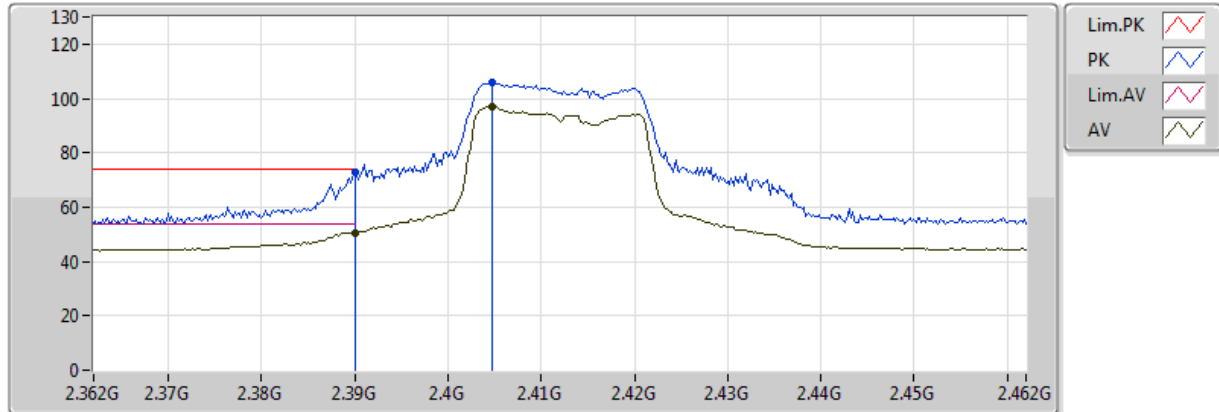


20170703  
EUT Y\_2TX Ant 0+1  
Setting 64  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3892G  | 53.82         | 54.00         | -0.18      | 32.01      | 3       | H         | 298        | 1.99      | -        |
| AV   | 2.4136G  | 100.74        | Inf           | -Inf       | 32.08      | 3       | H         | 298        | 1.99      | -        |
| AV   | 2.4864G  | 46.24         | 54.00         | -7.76      | 32.31      | 3       | H         | 298        | 1.99      | -        |
| PK   | 2.3888G  | 72.49         | 74.00         | -1.51      | 32.01      | 3       | H         | 298        | 1.99      | -        |
| PK   | 2.42G    | 110.94        | Inf           | -Inf       | 32.10      | 3       | H         | 298        | 1.99      | -        |
| PK   | 2.4888G  | 57.79         | 74.00         | -16.21     | 32.32      | 3       | H         | 298        | 1.99      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2412MHz\_TX



20170703  
EUT Y\_2TX Ant 0+1  
Setting 64  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.39G    | 50.64         | 54.00         | -3.36      | 32.01      | 3       | V         | 20         | 1.90      | -        |
| AV   | 2.4048G  | 96.75         | Inf           | -Inf       | 32.05      | 3       | V         | 20         | 1.90      | -        |
| PK   | 2.39G    | 72.80         | 74.00         | -1.20      | 32.01      | 3       | V         | 20         | 1.90      | -        |
| PK   | 2.4048G  | 106.10        | Inf           | -Inf       | 32.05      | 3       | V         | 20         | 1.90      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2412MHz\_TX



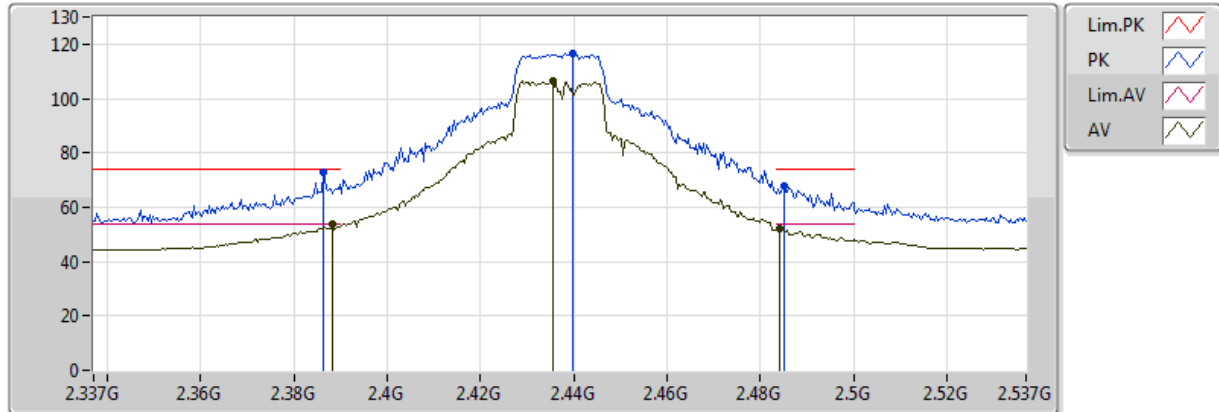
## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2412MHz\_TX



## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX

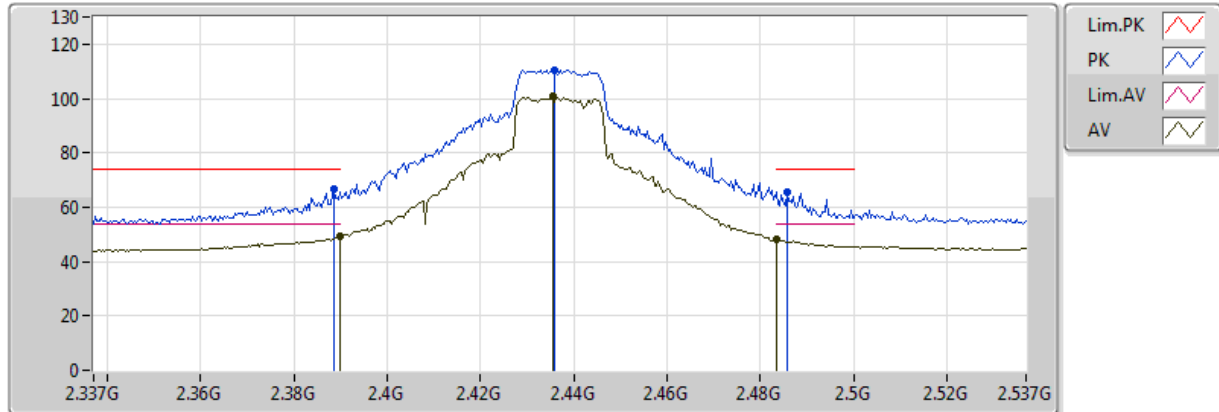


20170703  
EUT Y\_2TX Ant 0+1  
Setting 86  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3882G  | 53.95         | 54.00         | -0.05      | 32.00      | 3       | H         | 40         | 1.07      | -        |
| AV   | 2.4354G  | 106.47        | Inf           | -Inf       | 32.15      | 3       | H         | 40         | 1.07      | -        |
| AV   | 2.4842G  | 52.34         | 54.00         | -1.66      | 32.30      | 3       | H         | 40         | 1.07      | -        |
| PK   | 2.3862G  | 72.67         | 74.00         | -1.33      | 32.00      | 3       | H         | 40         | 1.07      | -        |
| PK   | 2.4398G  | 116.59        | Inf           | -Inf       | 32.16      | 3       | H         | 40         | 1.07      | -        |
| PK   | 2.485G   | 67.85         | 74.00         | -6.15      | 32.30      | 3       | H         | 40         | 1.07      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX

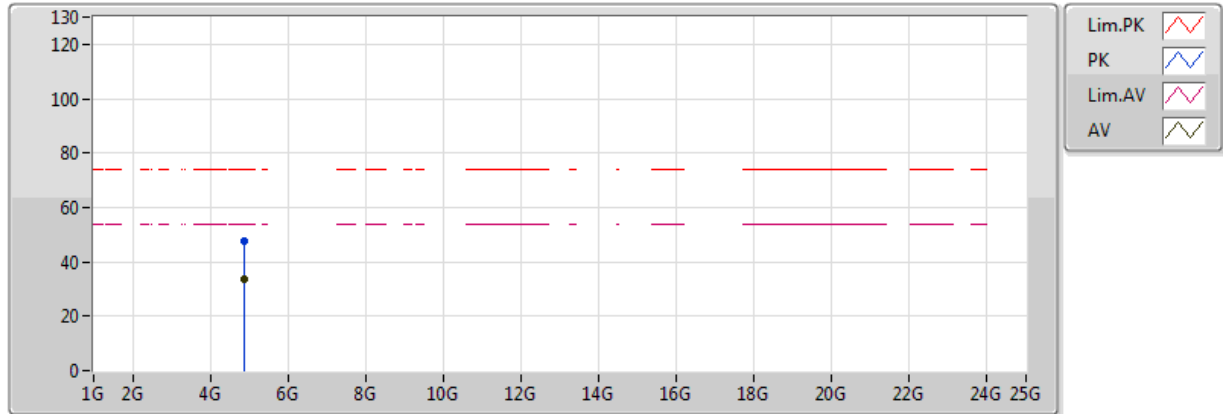


20170703  
EUT Y\_2TX Ant 0+1  
Setting 86  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 49.16         | 54.00         | -4.84      | 32.01      | 3       | V         | 340        | 1.68      | -        |
| AV   | 2.4354G   | 100.61        | Inf           | -Inf       | 32.15      | 3       | V         | 340        | 1.68      | -        |
| AV   | 2.483502G | 48.22         | 54.00         | -5.78      | 32.30      | 3       | V         | 340        | 1.68      | -        |
| PK   | 2.3886G   | 66.51         | 74.00         | -7.49      | 32.00      | 3       | V         | 340        | 1.68      | -        |
| PK   | 2.4358G   | 110.50        | Inf           | -Inf       | 32.15      | 3       | V         | 340        | 1.68      | -        |
| PK   | 2.4858G   | 65.61         | 74.00         | -8.39      | 32.31      | 3       | V         | 340        | 1.68      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX



20170703  
EUT Y\_2TX Ant 0+1  
Setting 86  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.873484G | 33.89         | 54.00         | -20.11     | 6.72       | 3       | V         | 36         | 1.50      | -        |
| PK   | 4.873512G | 47.78         | 74.00         | -26.22     | 6.72       | 3       | V         | 36         | 1.50      | -        |

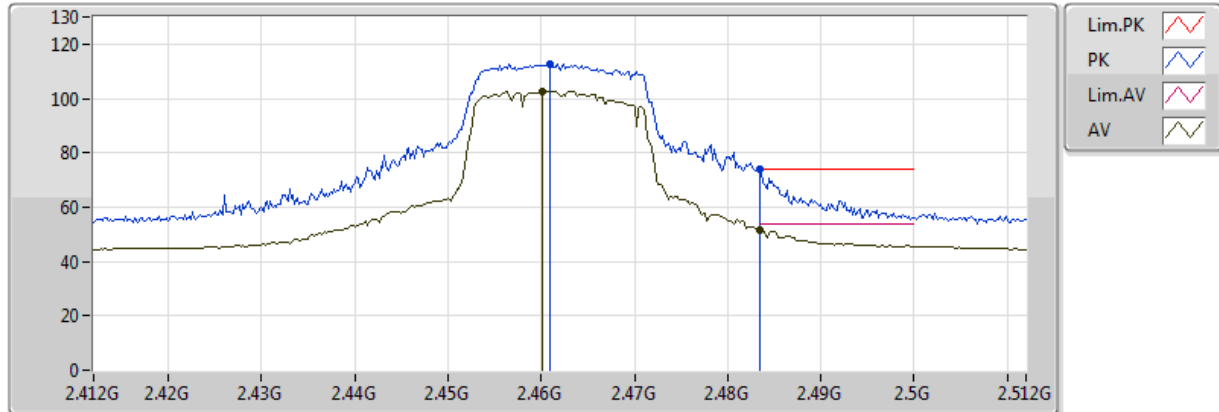
## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX



## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2462MHz\_TX

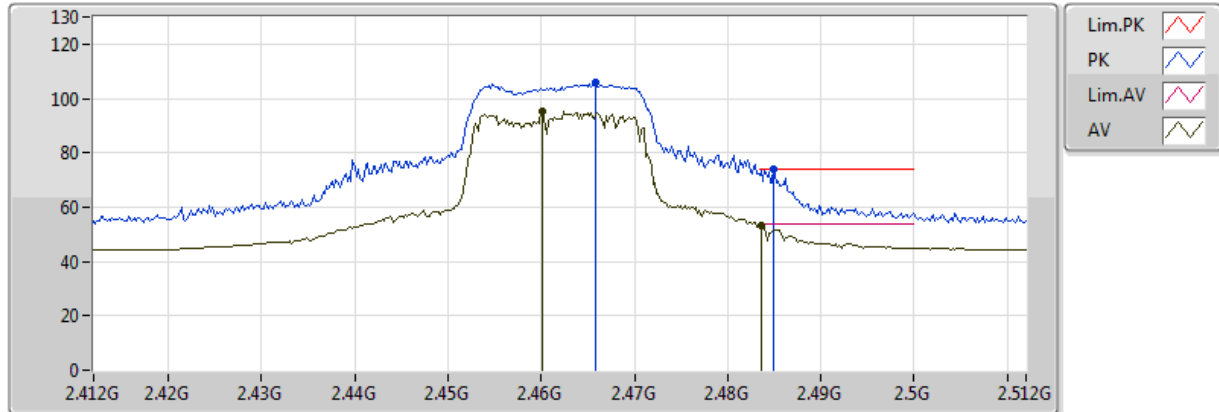


20170703  
EUT Y\_2TX Ant 0+1  
Setting 66  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.4602G   | 102.77        | Inf           | -Inf       | 32.23      | 3       | H         | 294        | 1.99      | -        |
| AV   | 2.483502G | 51.53         | 54.00         | -2.47      | 32.30      | 3       | H         | 294        | 1.99      | -        |
| PK   | 2.461G    | 112.85        | Inf           | -Inf       | 32.23      | 3       | H         | 294        | 1.99      | -        |
| PK   | 2.483502G | 73.96         | 74.00         | -0.04      | 32.30      | 3       | H         | 294        | 1.99      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2462MHz\_TX

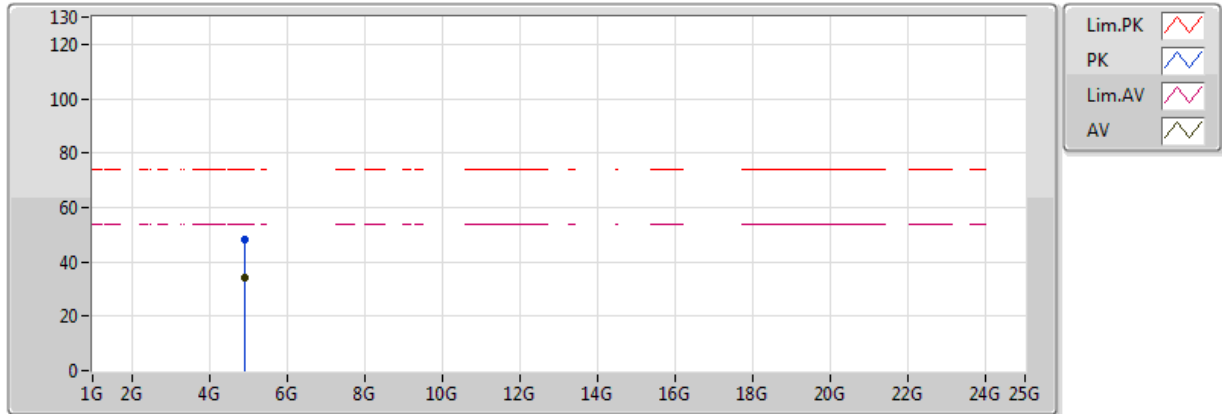


20170703  
EUT Y\_2TX Ant 0+1  
Setting 66  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.4602G  | 95.48         | Inf           | -Inf       | 32.23      | 3       | V         | 25         | 1.86      | -        |
| AV   | 2.4836G  | 53.09         | 54.00         | -0.91      | 32.30      | 3       | V         | 25         | 1.86      | -        |
| PK   | 2.4658G  | 105.85        | Inf           | -Inf       | 32.24      | 3       | V         | 25         | 1.86      | -        |
| PK   | 2.485G   | 73.96         | 74.00         | -0.04      | 32.30      | 3       | V         | 25         | 1.86      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2462MHz\_TX



20170703  
EUT Y\_2TX Ant 0+1  
Setting 66  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.924352G | 34.24         | 54.00         | -19.76     | 6.87       | 3       | V         | 124        | 1.50      | -        |
| PK   | 4.923864G | 47.96         | 74.00         | -26.04     | 6.87       | 3       | V         | 124        | 1.50      | -        |

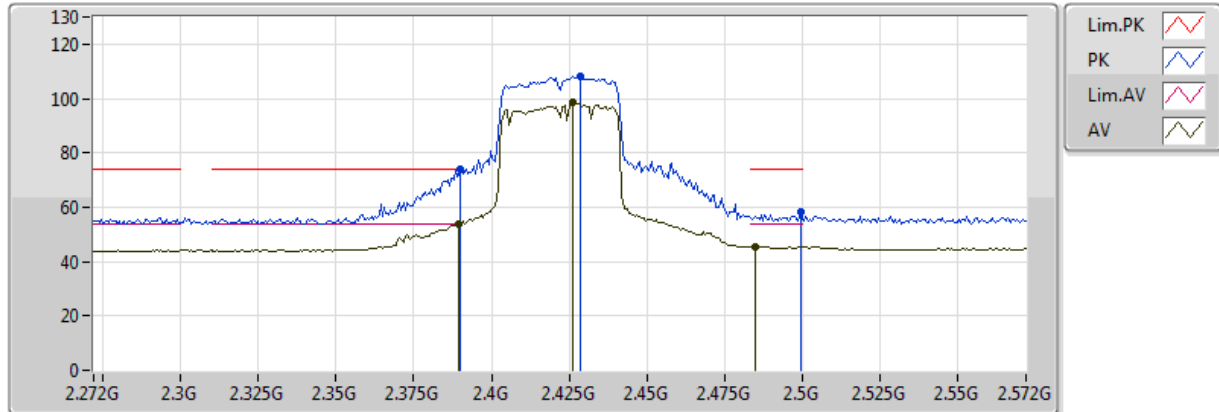
## 802.11ac VHT20-BF\_Nss1,(MCS0)\_2TX

## 2462MHz\_TX



## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2422MHz\_TX

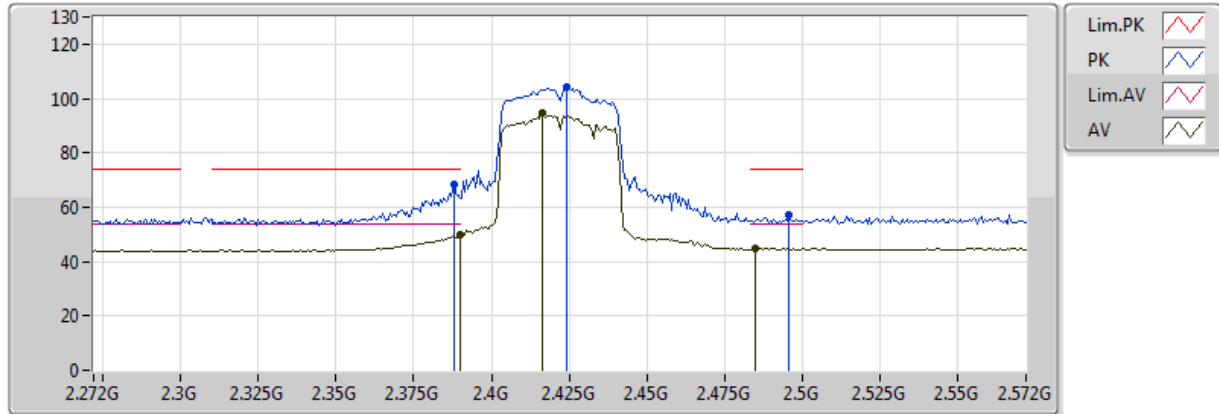


20170705  
EUT Y\_2TX Ant 0+1  
Setting 58  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3896G   | 53.93         | 54.00         | -0.07      | 32.01      | 3       | H         | 306        | 1.83      | -        |
| AV   | 2.4262G   | 98.35         | Inf           | -Inf       | 32.12      | 3       | H         | 306        | 1.83      | -        |
| AV   | 2.485G    | 45.42         | 54.00         | -8.58      | 32.30      | 3       | H         | 306        | 1.83      | -        |
| PK   | 2.389998G | 73.98         | 74.00         | -0.02      | 32.01      | 3       | H         | 306        | 1.83      | -        |
| PK   | 2.4286G   | 108.32        | Inf           | -Inf       | 32.13      | 3       | H         | 306        | 1.83      | -        |
| PK   | 2.4994G   | 58.11         | 74.00         | -15.89     | 32.35      | 3       | H         | 306        | 1.83      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2422MHz\_TX



20170705  
EUT Y\_2TX Ant 0+1  
Setting 58  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 49.61         | 54.00         | -4.39      | 32.01      | 3       | V         | 339        | 1.69      | -        |
| AV   | 2.4166G   | 94.43         | Inf           | -Inf       | 32.09      | 3       | V         | 339        | 1.69      | -        |
| AV   | 2.485G    | 44.67         | 54.00         | -9.33      | 32.30      | 3       | V         | 339        | 1.69      | -        |
| PK   | 2.3878G   | 68.17         | 74.00         | -5.83      | 32.00      | 3       | V         | 339        | 1.69      | -        |
| PK   | 2.4244G   | 103.97        | Inf           | -Inf       | 32.12      | 3       | V         | 339        | 1.69      | -        |
| PK   | 2.4958G   | 57.05         | 74.00         | -16.95     | 32.34      | 3       | V         | 339        | 1.69      | -        |

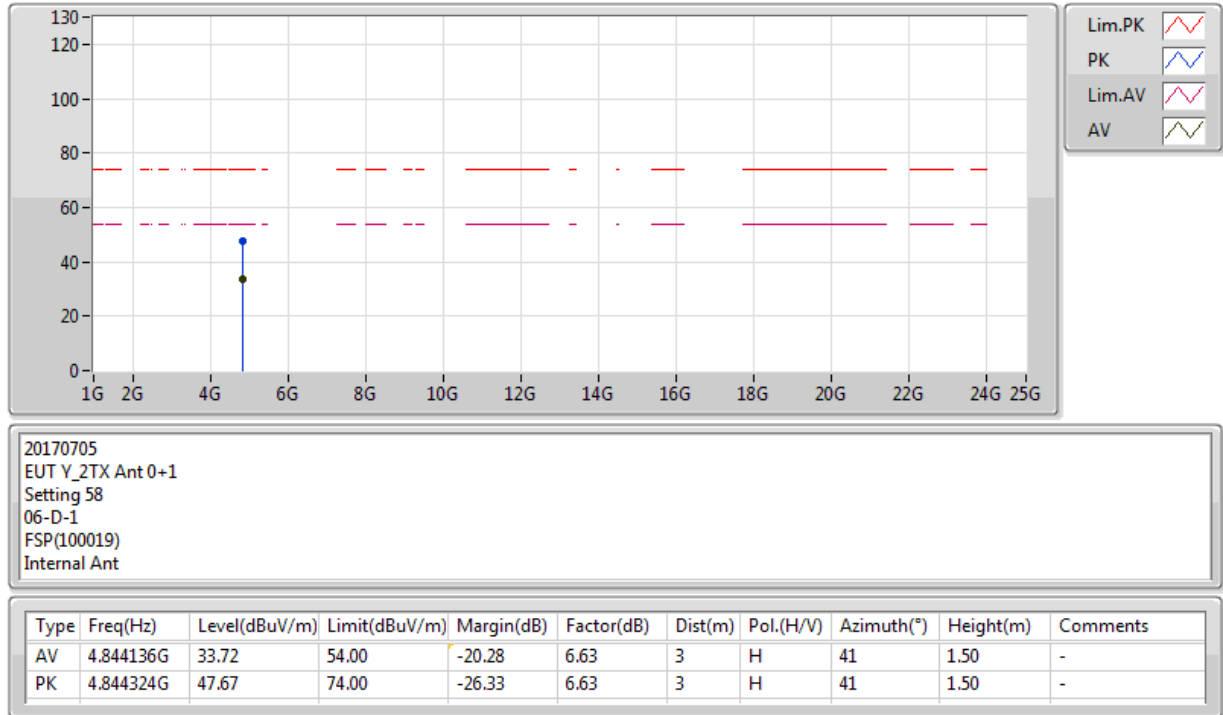
### 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

### 2422MHz\_TX



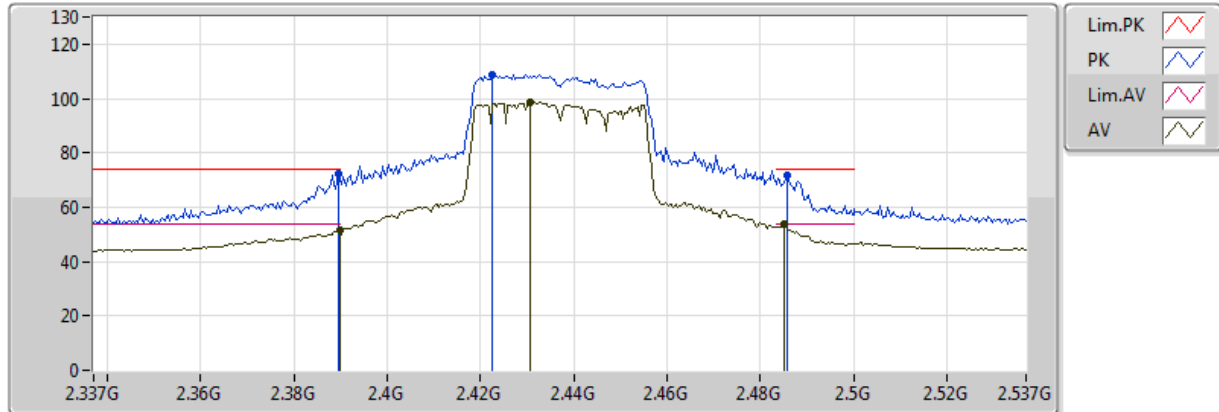
## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2422MHz\_TX



## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX

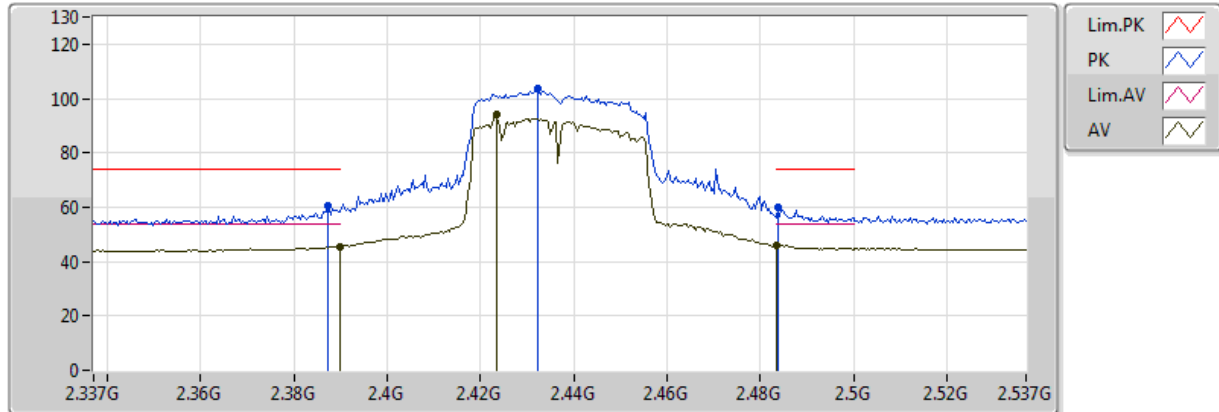


20170705  
EUT Y\_2TX Ant 0+1  
Setting 60  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 51.64         | 54.00         | -2.36      | 32.01      | 3       | H         | 311        | 1.88      | -        |
| AV   | 2.4306G   | 98.66         | Inf           | -Inf       | 32.13      | 3       | H         | 311        | 1.88      | -        |
| AV   | 2.485G    | 53.80         | 54.00         | -0.20      | 32.30      | 3       | H         | 311        | 1.88      | -        |
| PK   | 2.3894G   | 72.15         | 74.00         | -1.85      | 32.01      | 3       | H         | 311        | 1.88      | -        |
| PK   | 2.4226G   | 108.93        | Inf           | -Inf       | 32.11      | 3       | H         | 311        | 1.88      | -        |
| PK   | 2.4858G   | 71.83         | 74.00         | -2.17      | 32.31      | 3       | H         | 311        | 1.88      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX



20170705  
EUT Y\_2TX Ant 0+1  
Setting 60  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 45.47         | 54.00         | -8.53      | 32.01      | 3       | V         | 351        | 1.85      | -        |
| AV   | 2.4234G   | 94.10         | Inf           | -Inf       | 32.11      | 3       | V         | 351        | 1.85      | -        |
| AV   | 2.483502G | 45.87         | 54.00         | -8.13      | 32.30      | 3       | V         | 351        | 1.85      | -        |
| PK   | 2.3874G   | 60.55         | 74.00         | -13.45     | 32.00      | 3       | V         | 351        | 1.85      | -        |
| PK   | 2.4322G   | 103.47        | Inf           | -Inf       | 32.14      | 3       | V         | 351        | 1.85      | -        |
| PK   | 2.4838G   | 59.74         | 74.00         | -14.26     | 32.30      | 3       | V         | 351        | 1.85      | -        |

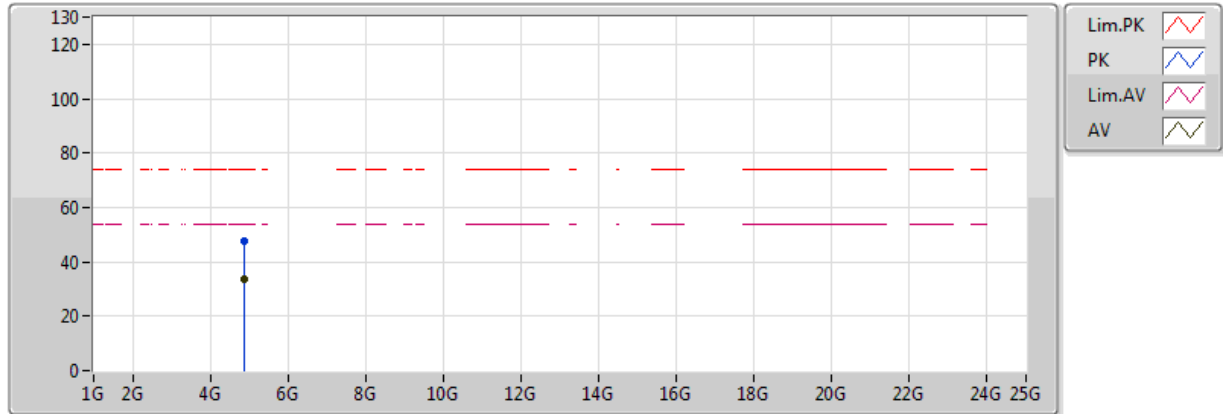
## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX



## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX

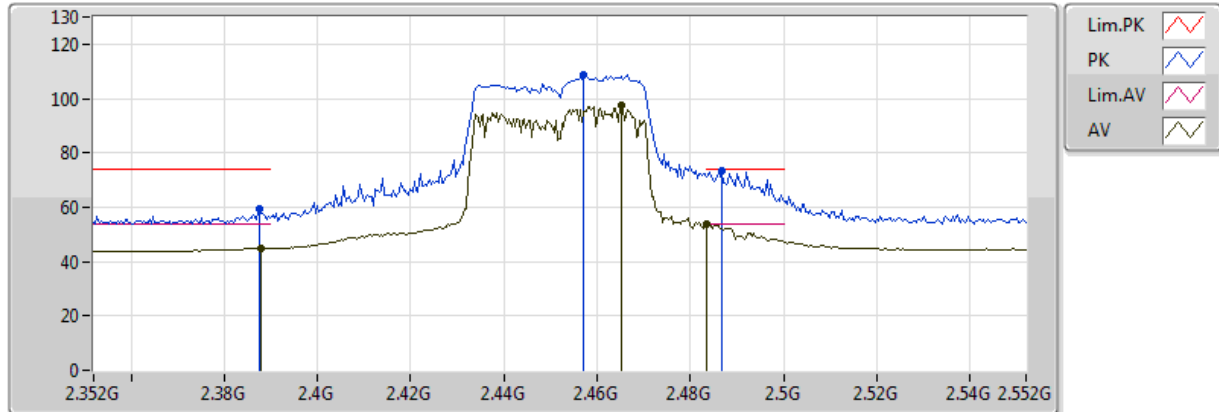


20170705  
EUT Y\_2TX Ant 0+1  
Setting 60  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.874676G | 33.86         | 54.00         | -20.14     | 6.72       | 3       | H         | 68         | 1.50      | -        |
| PK   | 4.873016G | 47.39         | 74.00         | -26.61     | 6.72       | 3       | H         | 68         | 1.50      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2452MHz\_TX

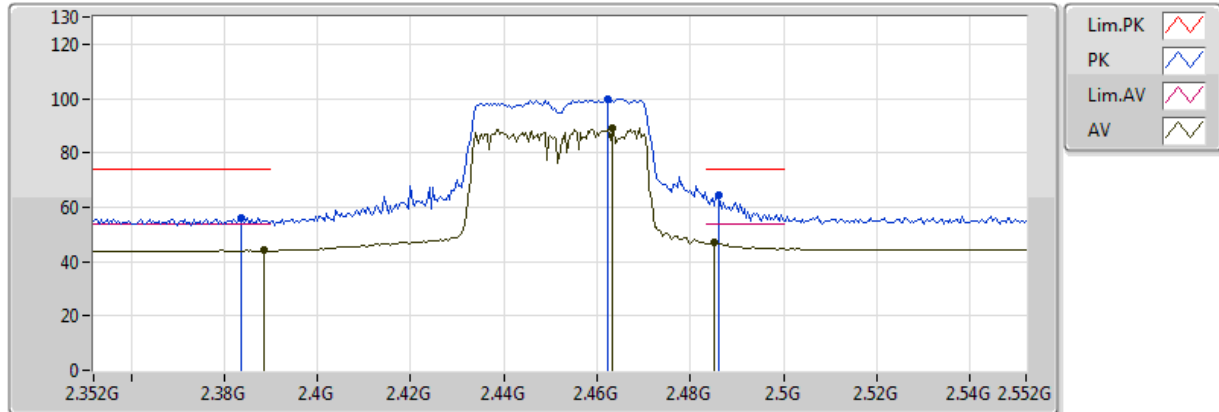


20170705  
EUT Y\_2TX Ant 0+1  
Setting 54  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.388G   | 44.92         | 54.00         | -9.08      | 32.00      | 3       | H         | 306        | 1.84      | -        |
| AV   | 2.4652G  | 97.56         | Inf           | -Inf       | 32.24      | 3       | H         | 306        | 1.84      | -        |
| AV   | 2.4836G  | 53.73         | 54.00         | -0.27      | 32.30      | 3       | H         | 306        | 1.84      | -        |
| PK   | 2.3876G  | 59.13         | 74.00         | -14.87     | 32.00      | 3       | H         | 306        | 1.84      | -        |
| PK   | 2.4572G  | 108.78        | Inf           | -Inf       | 32.22      | 3       | H         | 306        | 1.84      | -        |
| PK   | 2.4868G  | 73.20         | 74.00         | -0.80      | 32.31      | 3       | H         | 306        | 1.84      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2452MHz\_TX

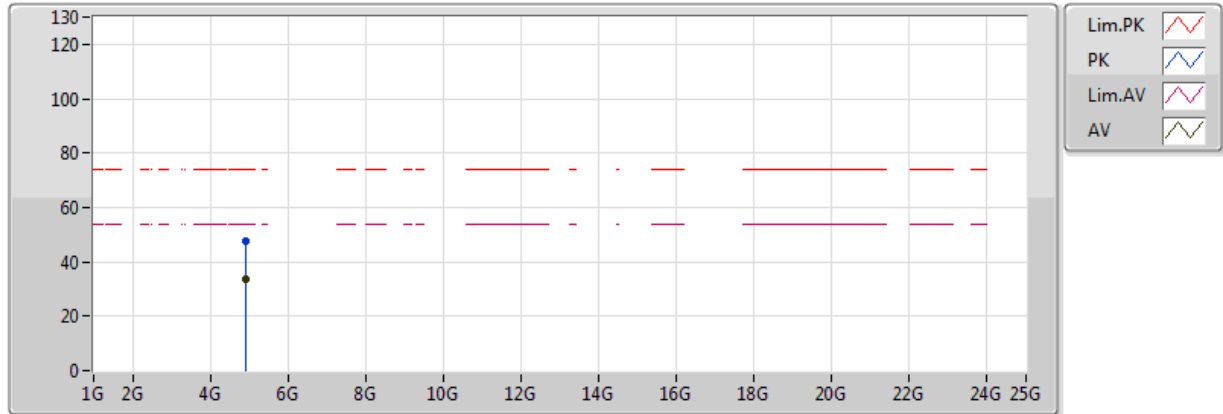


20170705  
EUT Y\_2TX Ant 0+1  
Setting 54  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3884G  | 44.03         | 54.00         | -9.97      | 32.00      | 3       | V         | 1          | 1.63      | -        |
| AV   | 2.4632G  | 88.89         | Inf           | -Inf       | 32.24      | 3       | V         | 1          | 1.63      | -        |
| AV   | 2.4852G  | 47.00         | 54.00         | -7.00      | 32.30      | 3       | V         | 1          | 1.63      | -        |
| PK   | 2.3836G  | 56.17         | 74.00         | -17.83     | 31.99      | 3       | V         | 1          | 1.63      | -        |
| PK   | 2.4624G  | 99.84         | Inf           | -Inf       | 32.23      | 3       | V         | 1          | 1.63      | -        |
| PK   | 2.486G   | 64.49         | 74.00         | -9.51      | 32.31      | 3       | V         | 1          | 1.63      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2452MHz\_TX

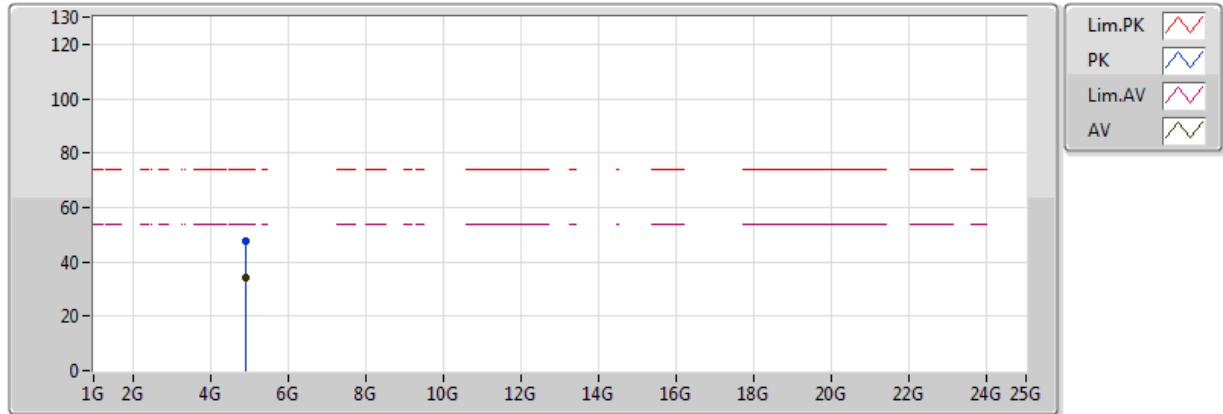


20170705  
EUT Y\_2TX Ant 0+1  
Setting 54  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.903812G | 33.84         | 54.00         | -20.16     | 6.81       | 3       | V         | 4          | 1.50      | -        |
| PK   | 4.904824G | 47.77         | 74.00         | -26.23     | 6.81       | 3       | V         | 4          | 1.50      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_2TX

## 2452MHz\_TX



20170705  
EUT Y\_2TX Ant 0+1  
Setting 54  
06-D-1  
FSP(100019)  
Internal Ant

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.90462G  | 33.93         | 54.00         | -20.07     | 6.81       | 3       | H         | 31         | 1.50      | -        |
| PK   | 4.903876G | 47.70         | 74.00         | -26.30     | 6.81       | 3       | H         | 31         | 1.50      | -        |



## RSE TX above 1GHz Result

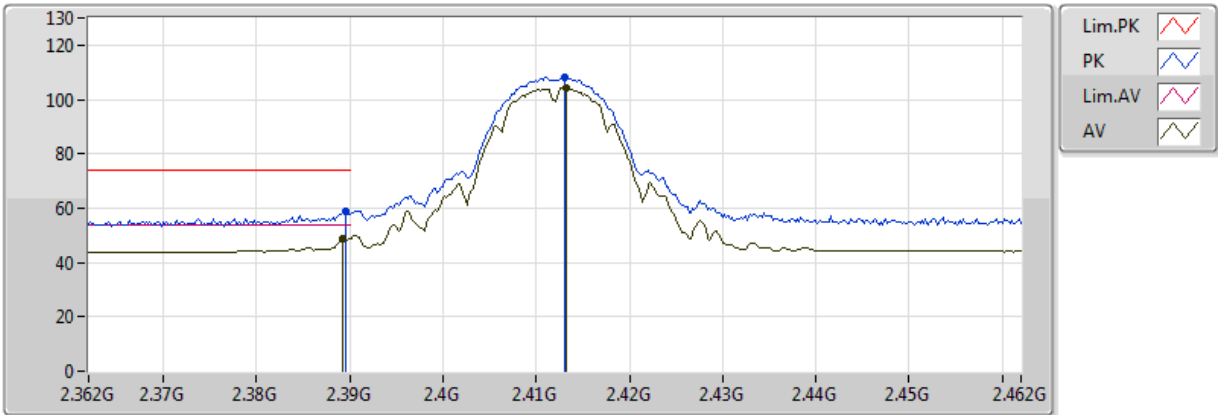
## Appendix F.2

### For 3TX: Summary

| Mode                           | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Pol.<br>(H/V) | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|---------------|----------------|---------------|----------|
| 802.11ac VHT40_Nss1,(MCS0)_3TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -             | -              | -             | -        |
| 2.4-2.4835GHz                  | Pass   | AV   | 2.3888G      | 53.99             | 54.00             | -0.01          | 32.01          | 3           | H             | 50             | 1.01          | -        |

## 802.11b\_(1Mbps)\_3TX

## 2412MHz\_TX

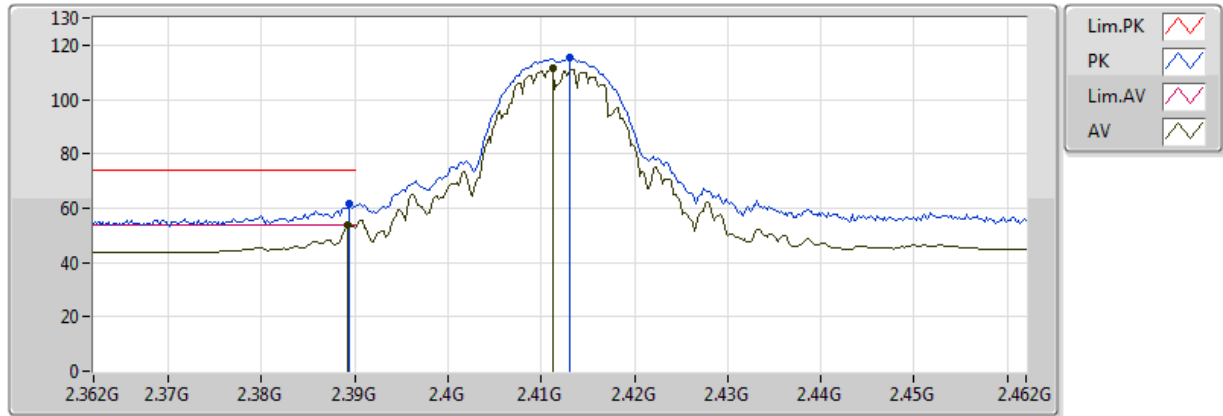


20170704  
EUT Y  
Setting 78  
06-M-0  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3892G  | 48.81         | 54.00         | -5.19      | 32.01      | 3       | V         | 27         | 1.54      | -        |
| AV   | 2.4132G  | 104.01        | Inf           | -Inf       | 32.08      | 3       | V         | 27         | 1.54      | -        |
| PK   | 2.3896G  | 58.71         | 74.00         | -15.29     | 32.01      | 3       | V         | 27         | 1.54      | -        |
| PK   | 2.413G   | 108.16        | Inf           | -Inf       | 32.08      | 3       | V         | 27         | 1.54      | -        |

## 802.11b\_(1Mbps)\_3TX

## 2412MHz\_TX

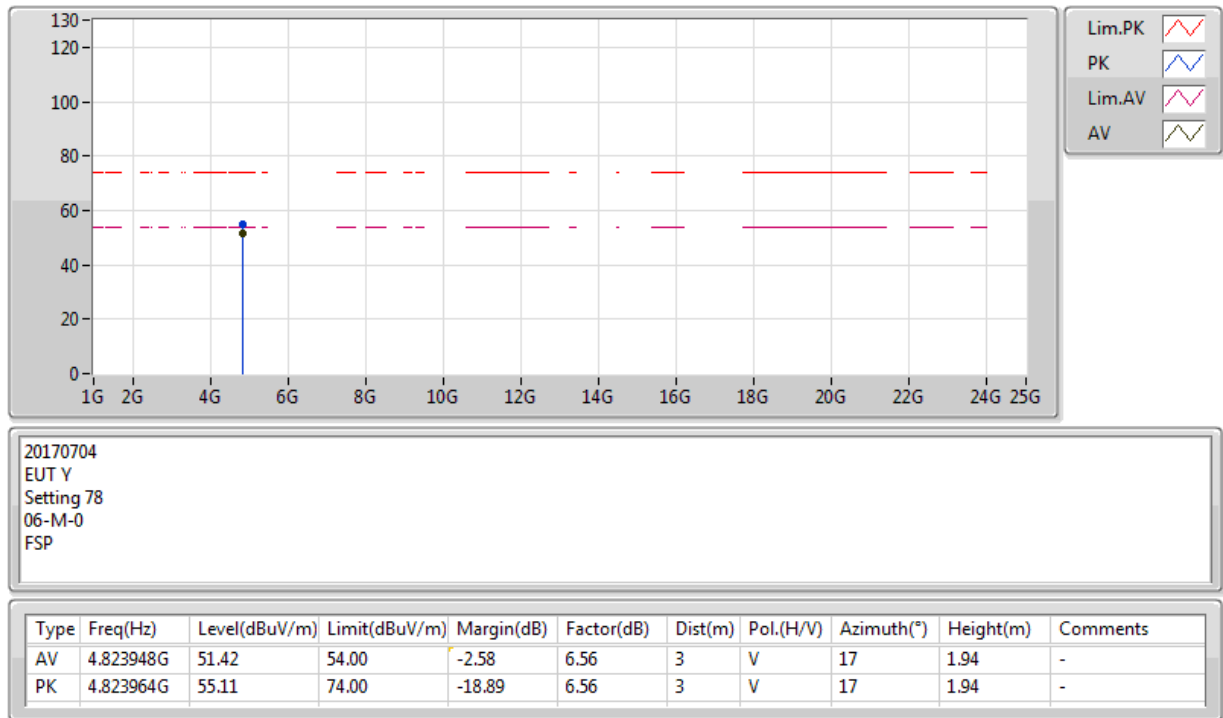


20170704  
EUT Y  
Setting 78  
06-M-0  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3892G  | 53.86         | 54.00         | -0.14      | 32.01      | 3       | H         | 325        | 1.30      | -        |
| AV   | 2.4112G  | 111.23        | Inf           | -Inf       | 32.07      | 3       | H         | 325        | 1.30      | -        |
| PK   | 2.3894G  | 61.55         | 74.00         | -12.45     | 32.01      | 3       | H         | 325        | 1.30      | -        |
| PK   | 2.413G   | 115.28        | Inf           | -Inf       | 32.08      | 3       | H         | 325        | 1.30      | -        |

## 802.11b\_(1Mbps)\_3TX

## 2412MHz\_TX



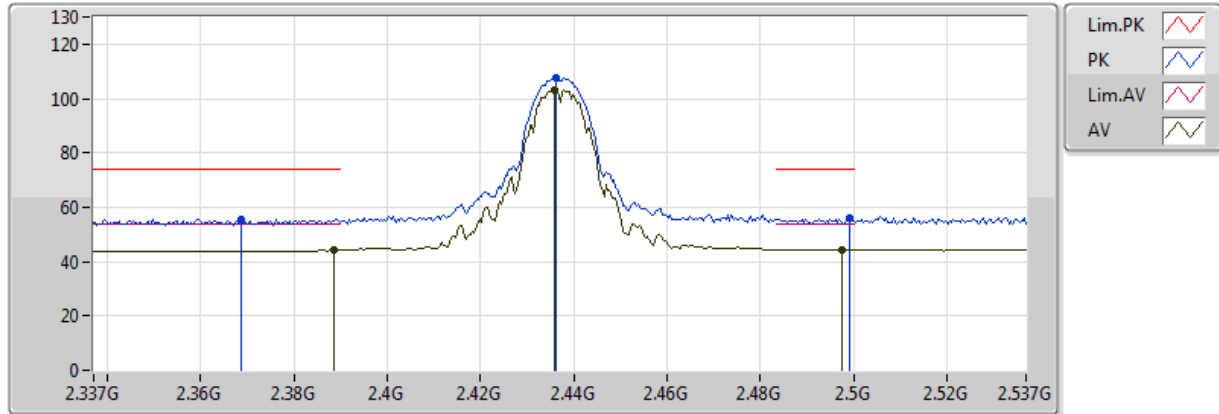
## 802.11b\_(1Mbps)\_3TX

## 2412MHz\_TX



## 802.11b\_(1Mbps)\_3TX

## 2437MHz\_TX

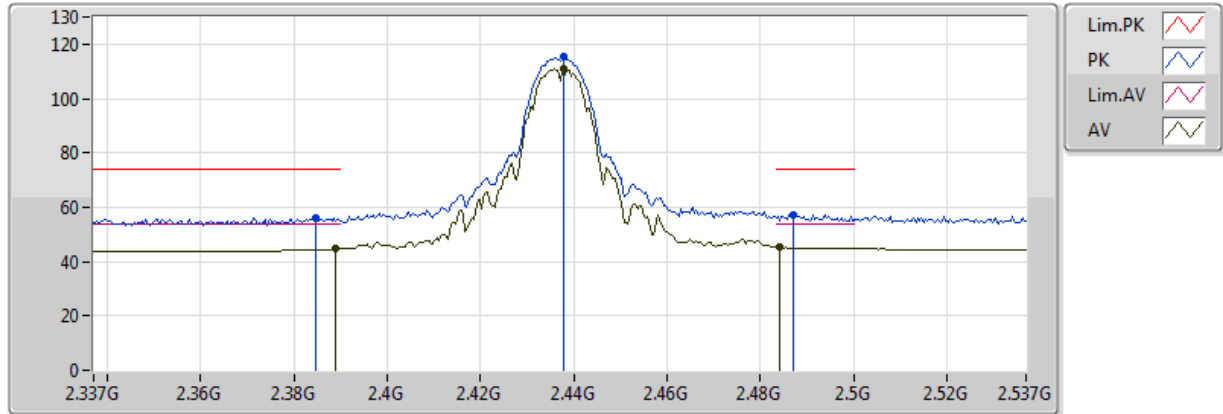


20170704  
EUT Y  
Setting 80  
06-M-0  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3886G  | 44.08         | 54.00         | -9.92      | 32.00      | 3       | V         | 27         | 1.54      | -        |
| AV   | 2.4358G  | 103.16        | Inf           | -Inf       | 32.15      | 3       | V         | 27         | 1.54      | -        |
| AV   | 2.4974G  | 44.28         | 54.00         | -9.72      | 32.34      | 3       | V         | 27         | 1.54      | -        |
| PK   | 2.3686G  | 55.64         | 74.00         | -18.36     | 31.94      | 3       | V         | 27         | 1.54      | -        |
| PK   | 2.4362G  | 107.52        | Inf           | -Inf       | 32.15      | 3       | V         | 27         | 1.54      | -        |
| PK   | 2.499G   | 55.87         | 74.00         | -18.13     | 32.35      | 3       | V         | 27         | 1.54      | -        |

## 802.11b\_(1Mbps)\_3TX

## 2437MHz\_TX

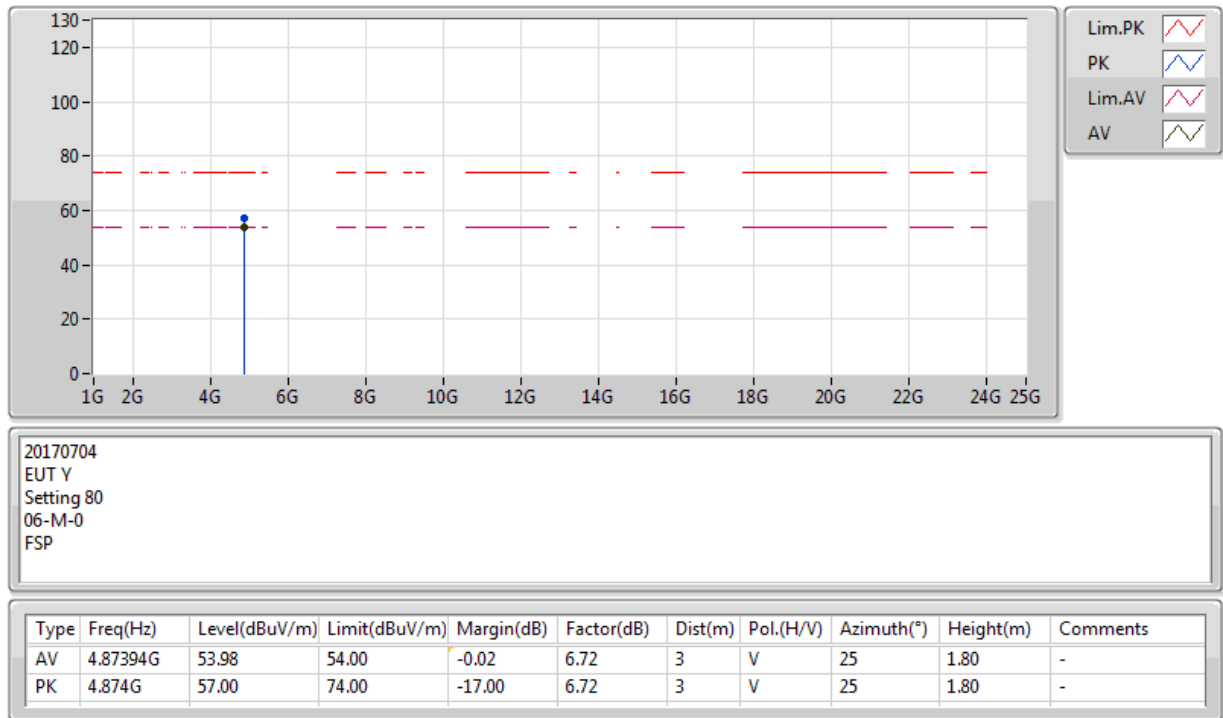


20170704  
EUT Y  
Setting 80  
06-M-0  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389G   | 44.59         | 54.00         | -9.41      | 32.01      | 3       | H         | 330        | 1.72      | -        |
| AV   | 2.4378G  | 111.00        | Inf           | -Inf       | 32.16      | 3       | H         | 330        | 1.72      | -        |
| AV   | 2.4842G  | 45.21         | 54.00         | -8.79      | 32.30      | 3       | H         | 330        | 1.72      | -        |
| PK   | 2.3846G  | 55.87         | 74.00         | -18.13     | 31.99      | 3       | H         | 330        | 1.72      | -        |
| PK   | 2.4378G  | 115.17        | Inf           | -Inf       | 32.16      | 3       | H         | 330        | 1.72      | -        |
| PK   | 2.487G   | 57.37         | 74.00         | -16.63     | 32.31      | 3       | H         | 330        | 1.72      | -        |

## 802.11b\_(1Mbps)\_3TX

## 2437MHz\_TX



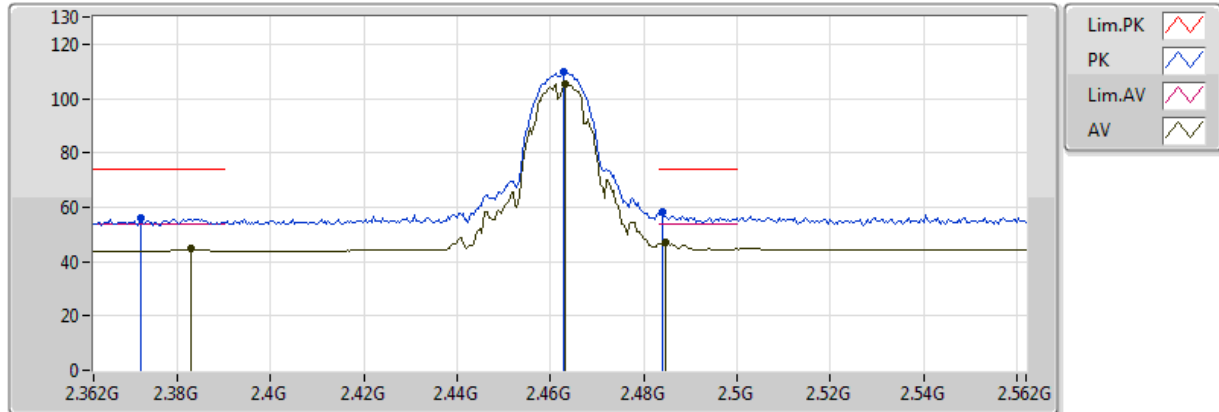
## 802.11b\_(1Mbps)\_3TX

## 2437MHz\_TX



## 802.11b\_(1Mbps)\_3TX

## 2462MHz\_TX

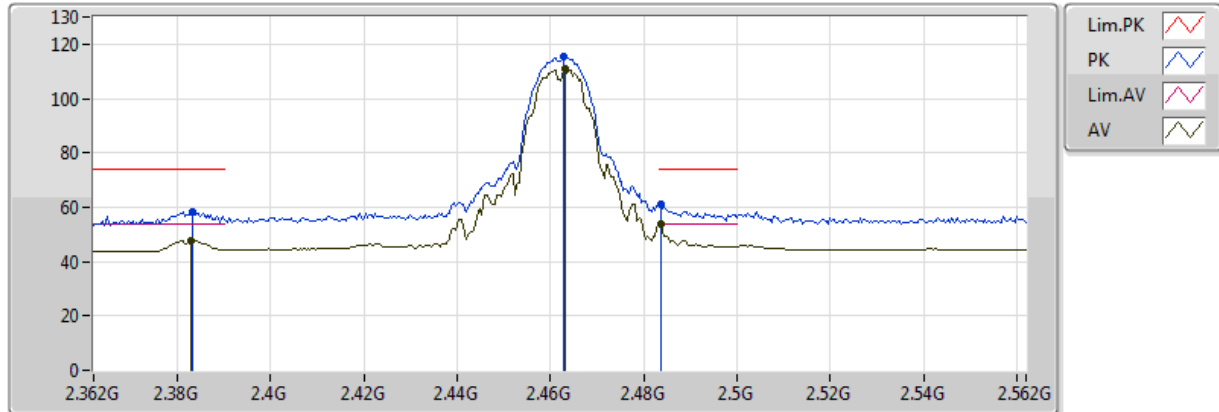


20170704  
EUT Y  
Setting 79  
06-M-0  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3828G  | 44.56         | 54.00         | -9.44      | 31.99      | 3       | V         | 139        | 1.50      | -        |
| AV   | 2.4632G  | 105.31        | Inf           | -Inf       | 32.24      | 3       | V         | 139        | 1.50      | -        |
| AV   | 2.4848G  | 47.05         | 54.00         | -6.95      | 32.30      | 3       | V         | 139        | 1.50      | -        |
| PK   | 2.372G   | 56.23         | 74.00         | -17.77     | 31.95      | 3       | V         | 139        | 1.50      | -        |
| PK   | 2.4628G  | 109.58        | Inf           | -Inf       | 32.23      | 3       | V         | 139        | 1.50      | -        |
| PK   | 2.484G   | 58.13         | 74.00         | -15.87     | 32.30      | 3       | V         | 139        | 1.50      | -        |

## 802.11b\_(1Mbps)\_3TX

## 2462MHz\_TX



20170704  
EUT Y  
Setting 79  
06-M-0  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3828G  | 47.73         | 54.00         | -6.27      | 31.99      | 3       | H         | 326        | 1.89      | -        |
| AV   | 2.4632G  | 111.00        | Inf           | -Inf       | 32.24      | 3       | H         | 326        | 1.89      | -        |
| AV   | 2.4836G  | 53.65         | 54.00         | -0.35      | 32.30      | 3       | H         | 326        | 1.89      | -        |
| PK   | 2.3832G  | 58.47         | 74.00         | -15.53     | 31.99      | 3       | H         | 326        | 1.89      | -        |
| PK   | 2.4628G  | 115.18        | Inf           | -Inf       | 32.23      | 3       | H         | 326        | 1.89      | -        |
| PK   | 2.4836G  | 60.89         | 74.00         | -13.11     | 32.30      | 3       | H         | 326        | 1.89      | -        |

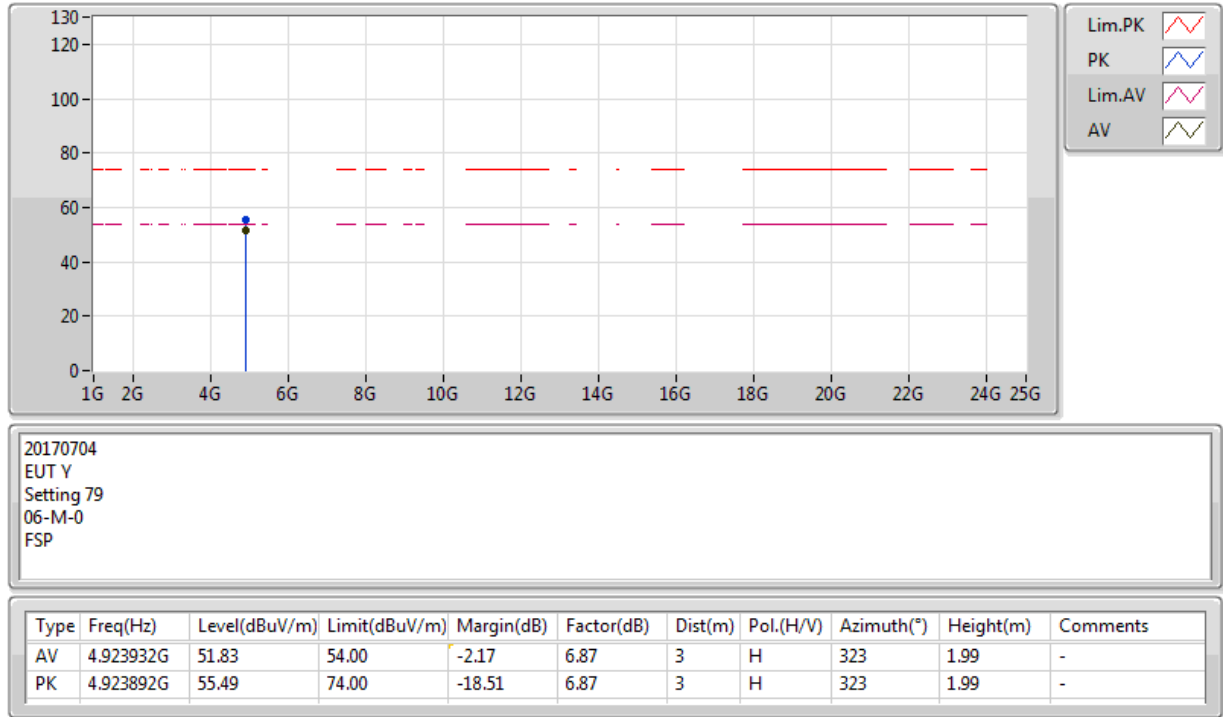
## 802.11b\_(1Mbps)\_3TX

## 2462MHz\_TX



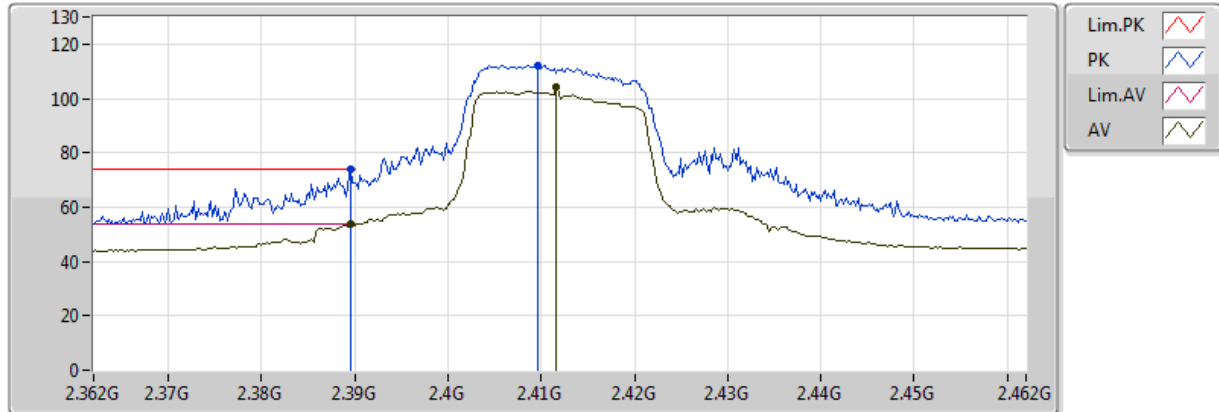
## 802.11b\_(1Mbps)\_3TX

## 2462MHz\_TX



## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2412MHz\_TX

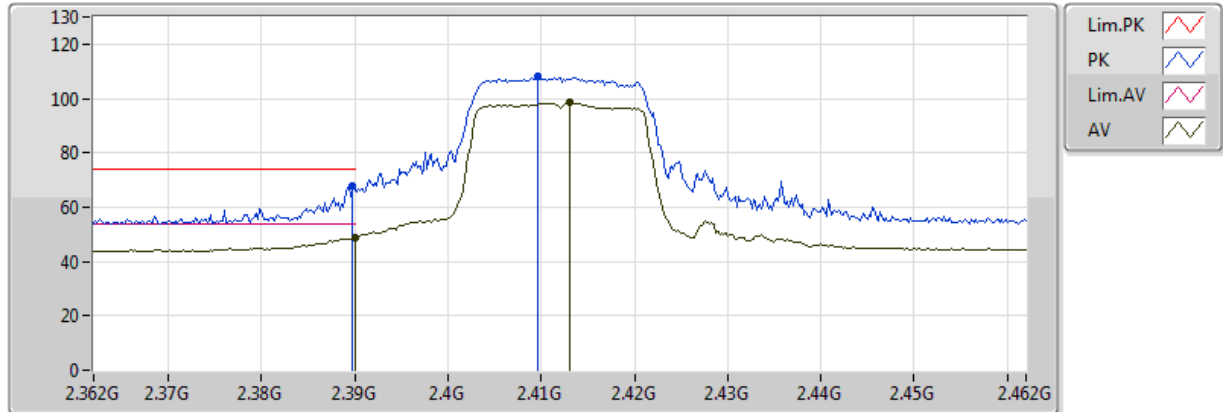


20170705  
EUT Y  
Setting 63  
06-D-1  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3896G  | 53.55         | 54.00         | -0.45      | 32.01      | 3       | H         | 327        | 1.30      | -        |
| AV   | 2.4116G  | 104.46        | Inf           | -Inf       | 32.08      | 3       | H         | 327        | 1.30      | -        |
| PK   | 2.3896G  | 73.80         | 74.00         | -0.20      | 32.01      | 3       | H         | 327        | 1.30      | -        |
| PK   | 2.4096G  | 112.32        | Inf           | -Inf       | 32.07      | 3       | H         | 327        | 1.30      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2412MHz\_TX



20170705  
EUT Y  
Setting 63  
06-D-1  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.39G    | 48.73         | 54.00         | -5.27      | 32.01      | 3       | V         | 14         | 1.94      | -        |
| AV   | 2.413G   | 98.39         | Inf           | -Inf       | 32.08      | 3       | V         | 14         | 1.94      | -        |
| PK   | 2.3898G  | 67.94         | 74.00         | -6.06      | 32.01      | 3       | V         | 14         | 1.94      | -        |
| PK   | 2.4096G  | 107.89        | Inf           | -Inf       | 32.07      | 3       | V         | 14         | 1.94      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2412MHz\_TX



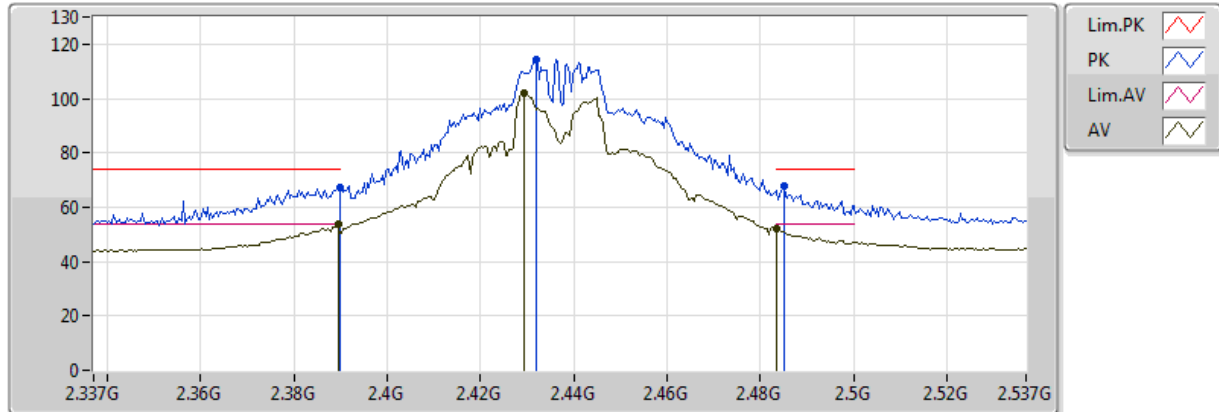
## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2412MHz\_TX



## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2437MHz\_TX

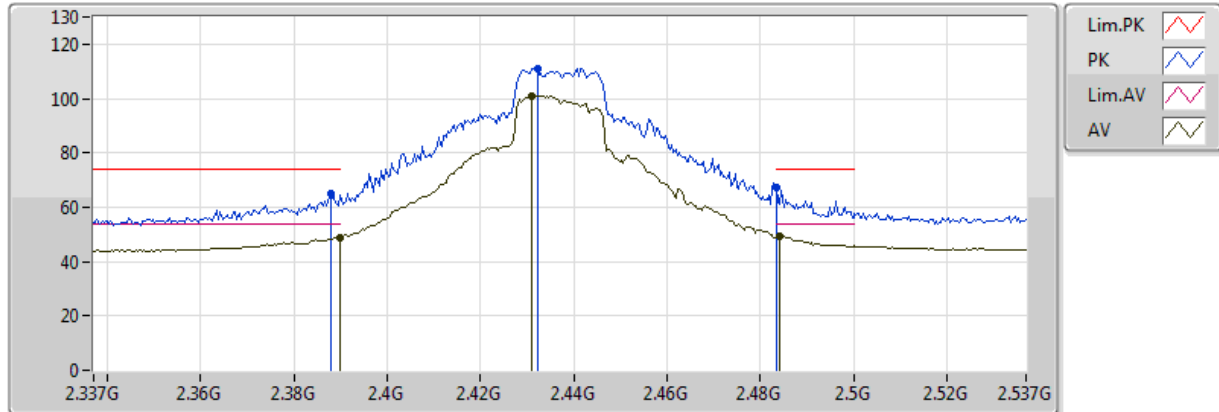


20170705  
EUT Y  
Setting 85(升1 Fail)  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3894G   | 53.74         | 54.00         | -0.26      | 32.01      | 3       | H         | 330        | 1.92      | -        |
| AV   | 2.4294G   | 102.04        | Inf           | -Inf       | 32.13      | 3       | H         | 330        | 1.92      | -        |
| AV   | 2.483502G | 52.22         | 54.00         | -1.78      | 32.30      | 3       | H         | 330        | 1.92      | -        |
| PK   | 2.389998G | 67.20         | 74.00         | -6.80      | 32.01      | 3       | H         | 330        | 1.92      | -        |
| PK   | 2.4318G   | 114.17        | Inf           | -Inf       | 32.14      | 3       | H         | 330        | 1.92      | -        |
| PK   | 2.485G    | 67.69         | 74.00         | -6.31      | 32.30      | 3       | H         | 330        | 1.92      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2437MHz\_TX



20170705  
EUT Y  
Setting 85  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 49.00         | 54.00         | -5.00      | 32.01      | 3       | V         | 11         | 1.93      | -        |
| AV   | 2.431G    | 101.01        | Inf           | -Inf       | 32.14      | 3       | V         | 11         | 1.93      | -        |
| AV   | 2.4842G   | 49.31         | 54.00         | -4.69      | 32.30      | 3       | V         | 11         | 1.93      | -        |
| PK   | 2.3878G   | 64.80         | 74.00         | -9.20      | 32.00      | 3       | V         | 11         | 1.93      | -        |
| PK   | 2.4322G   | 111.15        | Inf           | -Inf       | 32.14      | 3       | V         | 11         | 1.93      | -        |
| PK   | 2.483502G | 67.03         | 74.00         | -6.97      | 32.30      | 3       | V         | 11         | 1.93      | -        |

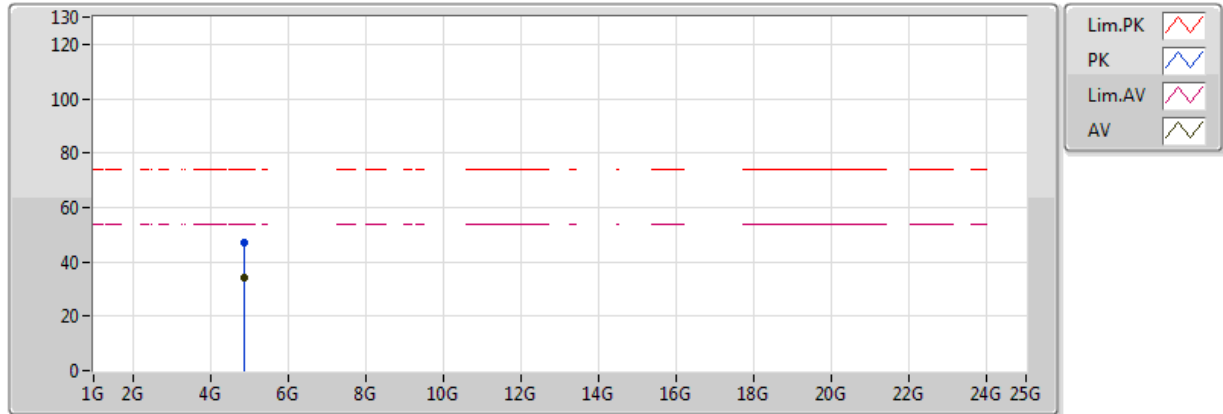
## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2437MHz\_TX



## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2437MHz\_TX

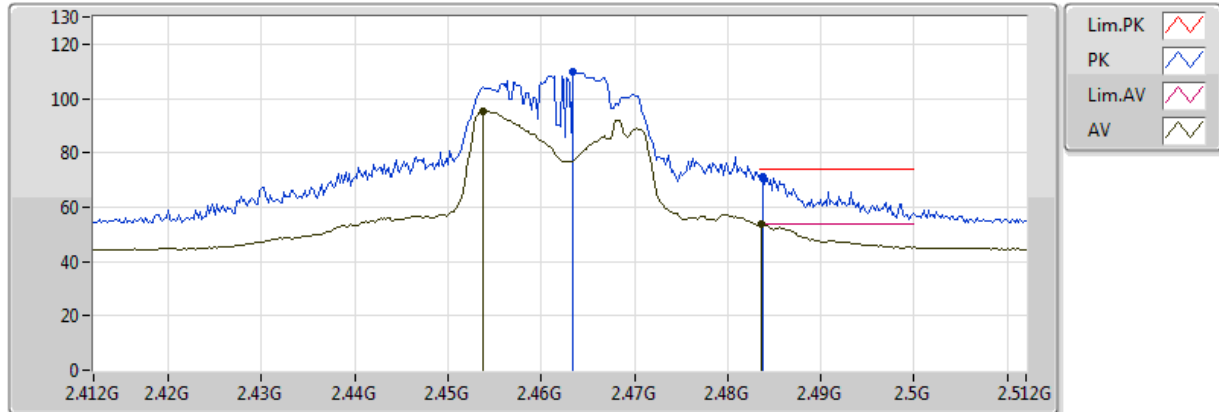


20170705  
EUT Y  
Setting 85  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.87346G  | 34.22         | 54.00         | -19.78     | 6.72       | 3       | H         | 206        | 1.50      | -        |
| PK   | 4.873008G | 47.25         | 74.00         | -26.75     | 6.72       | 3       | H         | 206        | 1.50      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

### 2462MHz\_TX

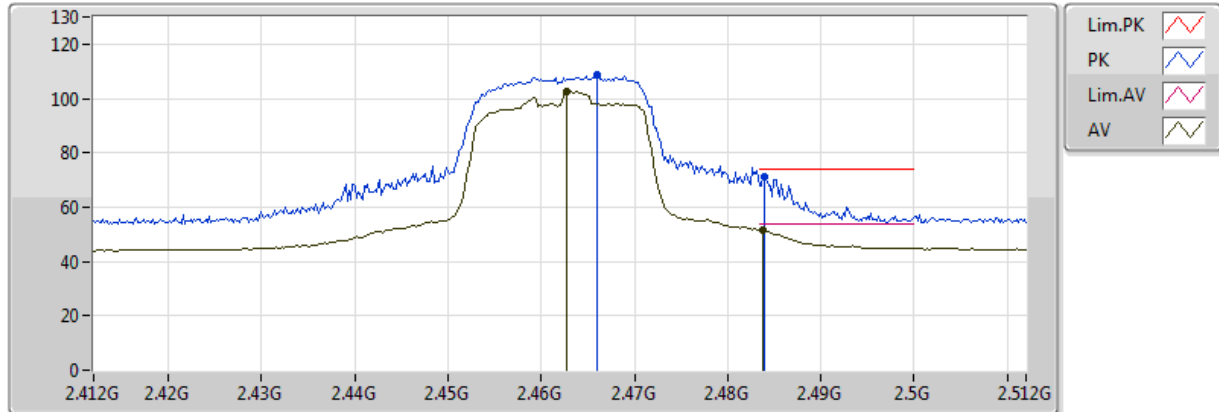


20170705  
EUT Y  
Setting 64  
06-D-1  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.4538G  | 95.47         | Inf           | -Inf       | 32.21      | 3       | H         | 333        | 1.51      | -        |
| AV   | 2.4836G  | 53.68         | 54.00         | -0.32      | 32.30      | 3       | H         | 333        | 1.51      | -        |
| PK   | 2.4634G  | 109.87        | Inf           | -Inf       | 32.24      | 3       | H         | 333        | 1.51      | -        |
| PK   | 2.4838G  | 70.99         | 74.00         | -3.01      | 32.30      | 3       | H         | 333        | 1.51      | -        |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2462MHz\_TX



20170705  
EUT Y  
Setting 64  
06-D-1  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.4628G  | 102.57        | Inf           | -Inf       | 32.23      | 3       | V         | 126        | 1.27      | -        |
| AV   | 2.4838G  | 51.64         | 54.00         | -2.36      | 32.30      | 3       | V         | 126        | 1.27      | -        |
| PK   | 2.466G   | 108.55        | Inf           | -Inf       | 32.24      | 3       | V         | 126        | 1.27      | -        |
| PK   | 2.484G   | 71.32         | 74.00         | -2.68      | 32.30      | 3       | V         | 126        | 1.27      | -        |

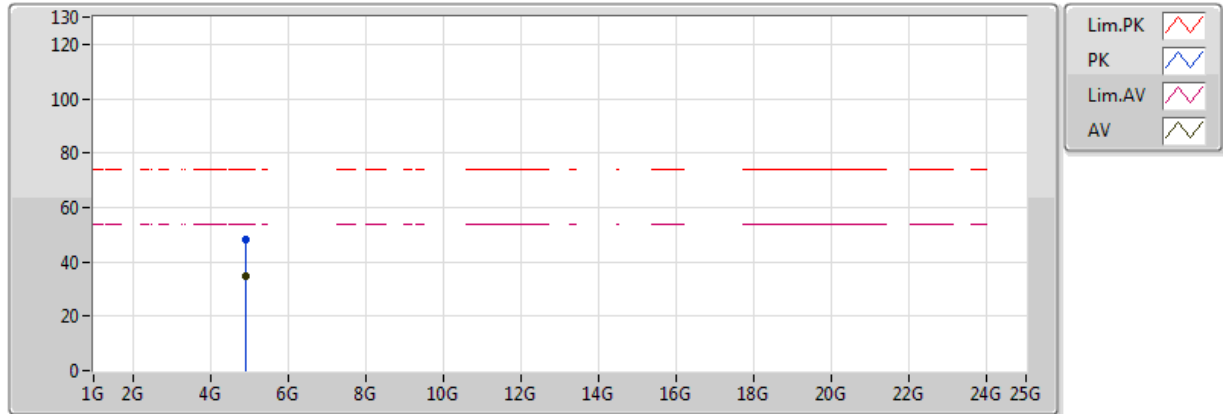
## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2462MHz\_TX



## 802.11ac VHT20-BF\_Nss1,(MCS0)\_3TX

## 2462MHz\_TX

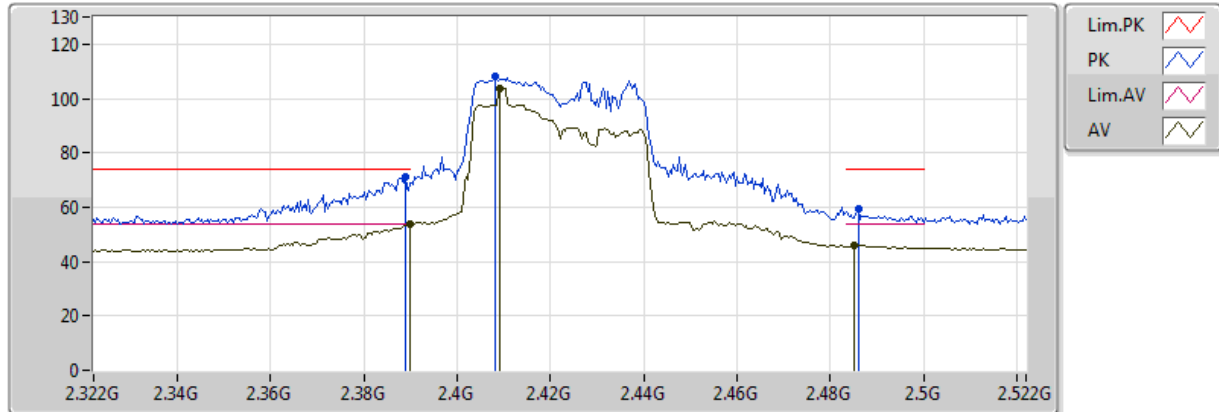


20170705  
EUT Y  
Setting 64  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.923408G | 34.81         | 54.00         | -19.19     | 6.87       | 3       | H         | 196        | 1.50      | -        |
| PK   | 4.924236G | 48.01         | 74.00         | -25.99     | 6.87       | 3       | H         | 196        | 1.50      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2422MHz\_TX

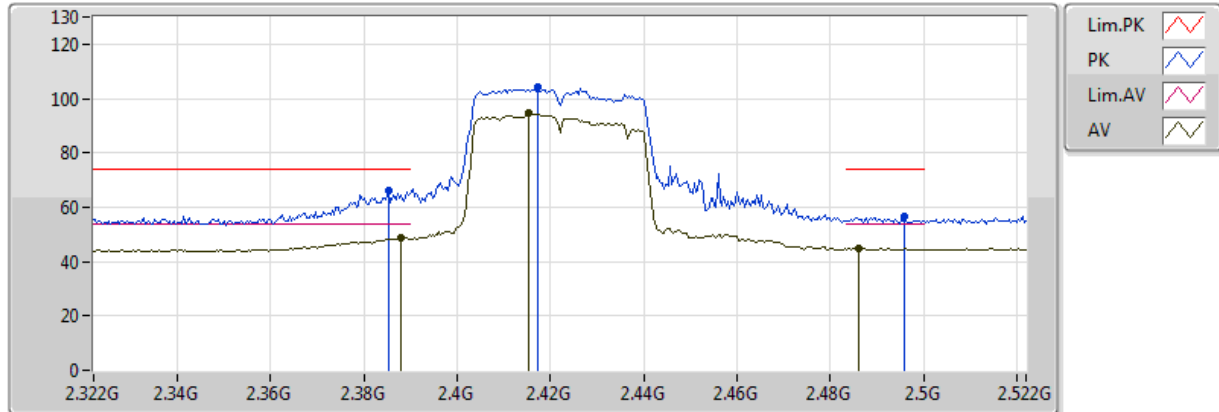


20170705  
EUT Y  
Setting 56  
06-D-1  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.39G    | 53.87         | 54.00         | -0.13      | 32.01      | 3       | H         | 327        | 1.97      | -        |
| AV   | 2.4092G  | 103.65        | Inf           | -Inf       | 32.07      | 3       | H         | 327        | 1.97      | -        |
| AV   | 2.4852G  | 45.95         | 54.00         | -8.05      | 32.30      | 3       | H         | 327        | 1.97      | -        |
| PK   | 2.3888G  | 71.23         | 74.00         | -2.77      | 32.01      | 3       | H         | 327        | 1.97      | -        |
| PK   | 2.408G   | 108.11        | Inf           | -Inf       | 32.06      | 3       | H         | 327        | 1.97      | -        |
| PK   | 2.486G   | 59.12         | 74.00         | -14.88     | 32.31      | 3       | H         | 327        | 1.97      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2422MHz\_TX



20170705  
EUT Y  
Setting 56  
06-D-1  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.388G   | 48.87         | 54.00         | -5.13      | 32.00      | 3       | V         | 13         | 1.94      | -        |
| AV   | 2.4152G  | 94.61         | Inf           | -Inf       | 32.09      | 3       | V         | 13         | 1.94      | -        |
| AV   | 2.486G   | 44.73         | 54.00         | -9.27      | 32.31      | 3       | V         | 13         | 1.94      | -        |
| PK   | 2.3852G  | 66.13         | 74.00         | -7.87      | 31.99      | 3       | V         | 13         | 1.94      | -        |
| PK   | 2.4172G  | 103.98        | Inf           | -Inf       | 32.09      | 3       | V         | 13         | 1.94      | -        |
| PK   | 2.496G   | 56.50         | 74.00         | -17.50     | 32.34      | 3       | V         | 13         | 1.94      | -        |

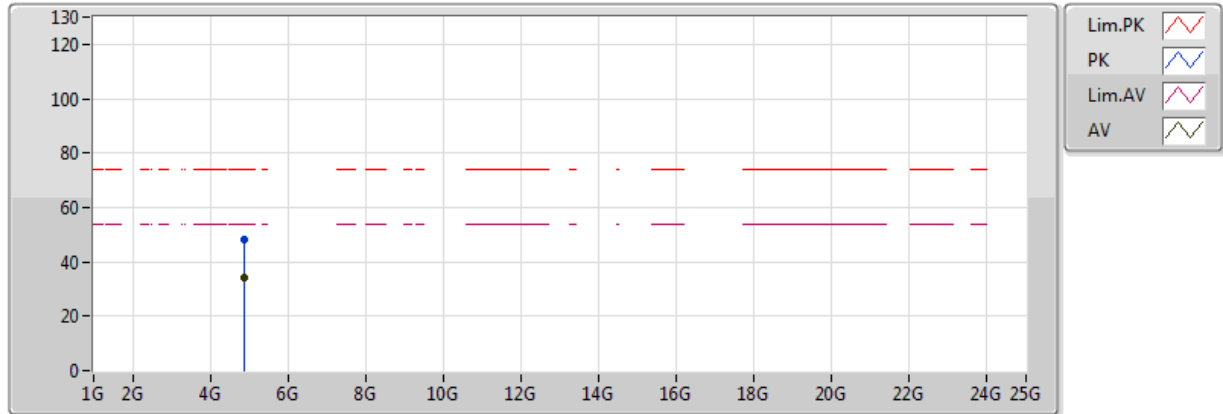
## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2422MHz\_TX



## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2422MHz\_TX

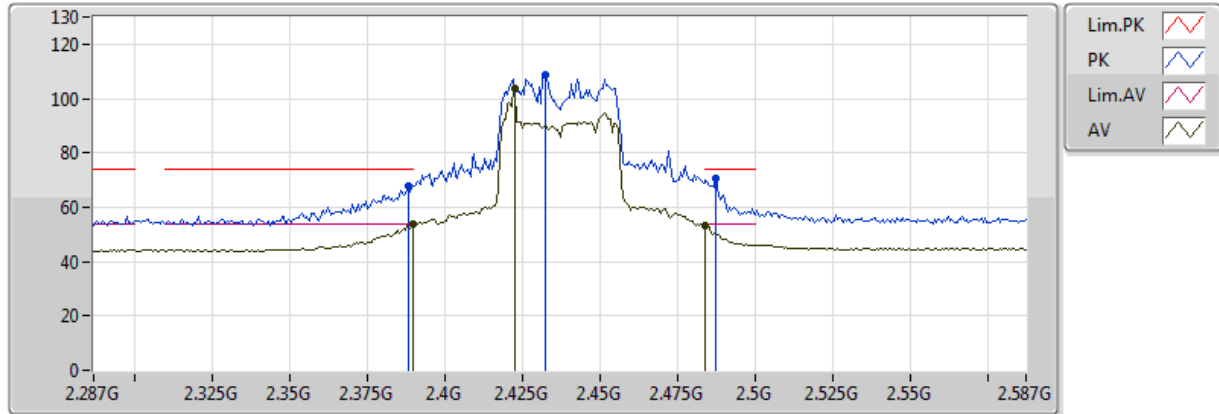


20170705  
EUT Y  
Setting 56  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.859348G | 34.29         | 54.00         | -19.71     | 6.67       | 3       | H         | 158        | 1.50      | -        |
| PK   | 4.859444G | 48.00         | 74.00         | -26.00     | 6.67       | 3       | H         | 158        | 1.50      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2437MHz\_TX

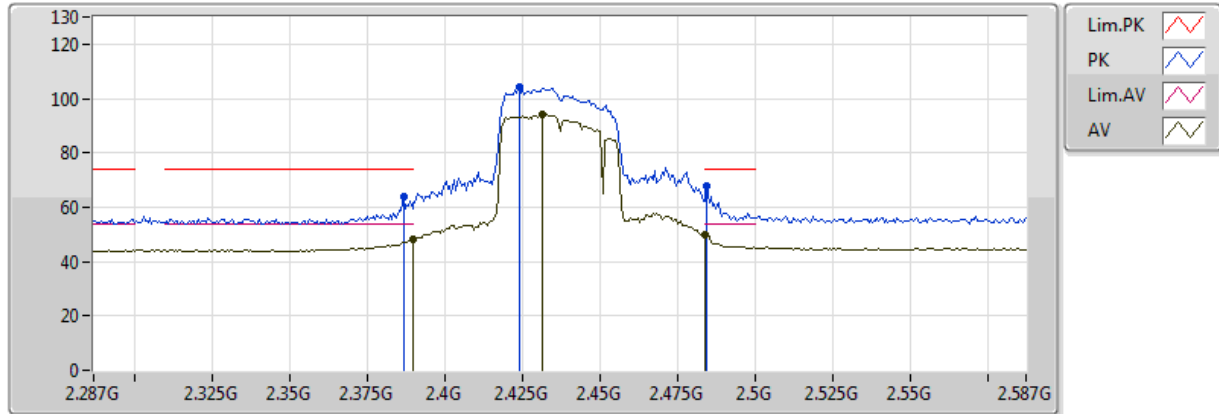


20170705  
EUT Y  
Setting 62  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 53.87         | 54.00         | -0.13      | 32.01      | 3       | H         | 325        | 1.50      | -        |
| AV   | 2.4226G   | 103.81        | Inf           | -Inf       | 32.11      | 3       | H         | 325        | 1.50      | -        |
| AV   | 2.483502G | 53.34         | 54.00         | -0.66      | 32.30      | 3       | H         | 325        | 1.50      | -        |
| PK   | 2.3884G   | 67.94         | 74.00         | -6.06      | 32.00      | 3       | H         | 325        | 1.50      | -        |
| PK   | 2.4322G   | 108.43        | Inf           | -Inf       | 32.14      | 3       | H         | 325        | 1.50      | -        |
| PK   | 2.4874G   | 70.52         | 74.00         | -3.48      | 32.31      | 3       | H         | 325        | 1.50      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2437MHz\_TX



20170705  
EUT Y  
Setting 62  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.389998G | 48.11         | 54.00         | -5.89      | 32.01      | 3       | V         | 124        | 1.35      | -        |
| AV   | 2.4316G   | 94.24         | Inf           | -Inf       | 32.14      | 3       | V         | 124        | 1.35      | -        |
| AV   | 2.483502G | 50.03         | 54.00         | -3.97      | 32.30      | 3       | V         | 124        | 1.35      | -        |
| PK   | 2.3866G   | 63.95         | 74.00         | -10.05     | 32.00      | 3       | V         | 124        | 1.35      | -        |
| PK   | 2.4238G   | 104.16        | Inf           | -Inf       | 32.11      | 3       | V         | 124        | 1.35      | -        |
| PK   | 2.4844G   | 67.85         | 74.00         | -6.15      | 32.30      | 3       | V         | 124        | 1.35      | -        |

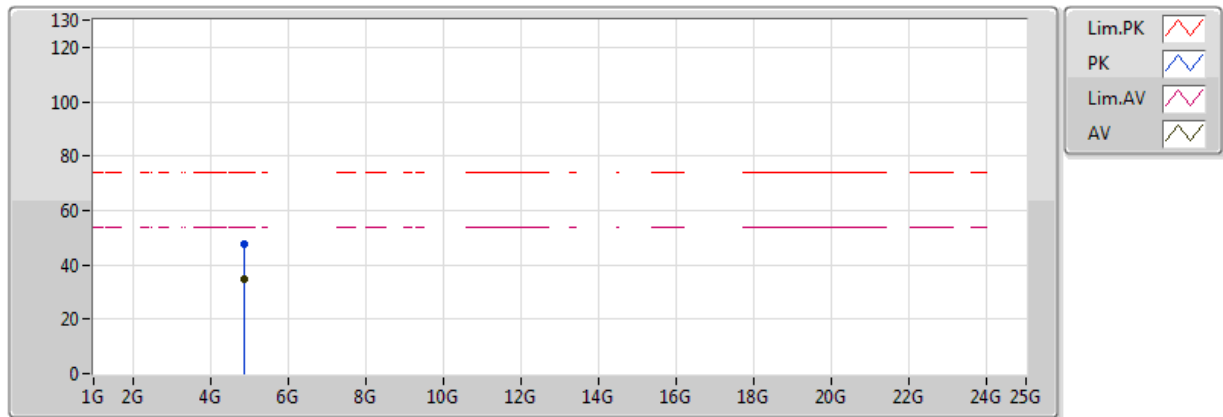
## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2437MHz\_TX



## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2437MHz\_TX

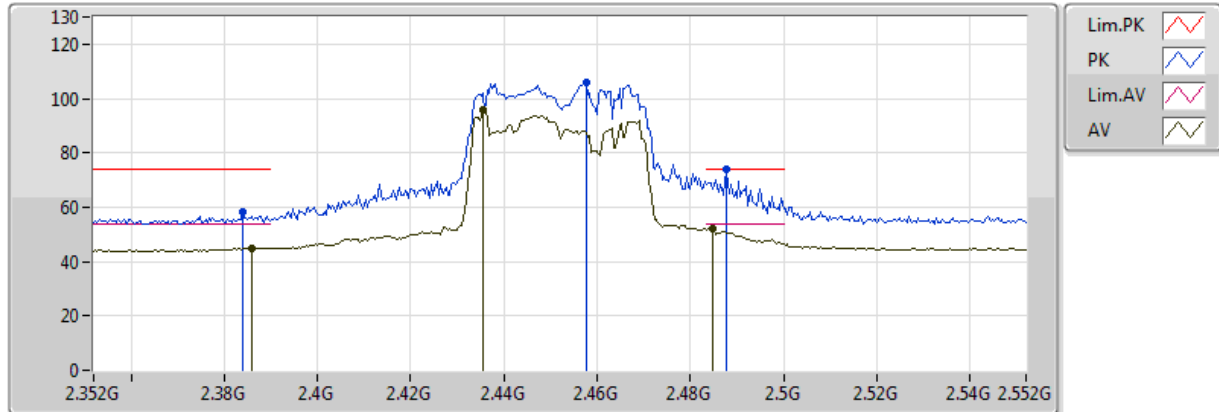


20170705  
EUT Y  
Setting 62  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.873864G | 34.54         | 54.00         | -19.46     | 6.72       | 3       | H         | 205        | 1.50      | -        |
| PK   | 4.873216G | 47.89         | 74.00         | -26.11     | 6.72       | 3       | H         | 205        | 1.50      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2452MHz\_TX

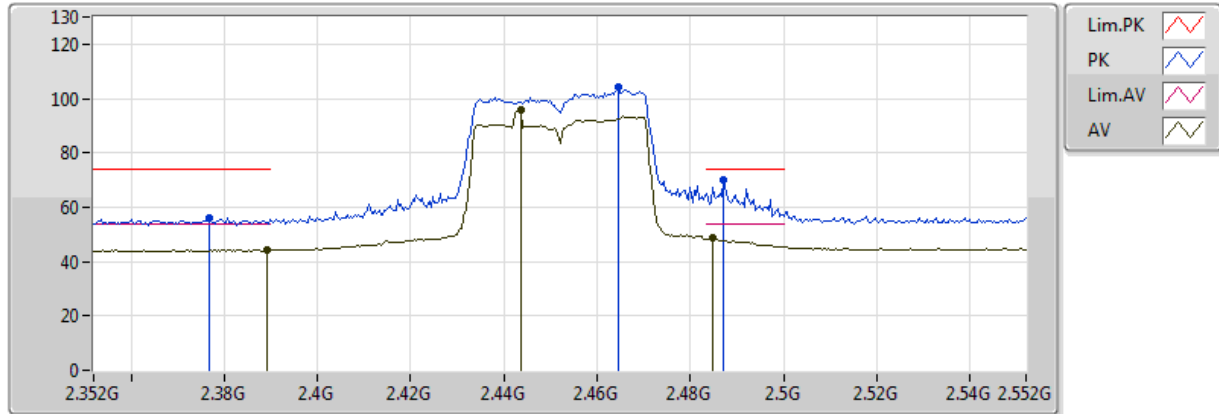


20170705  
EUT Y  
Setting 54  
06-D-1  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.386G   | 44.98         | 54.00         | -9.02      | 32.00      | 3       | H         | 326        | 1.53      | -        |
| AV   | 2.4356G  | 96.04         | Inf           | -Inf       | 32.15      | 3       | H         | 326        | 1.53      | -        |
| AV   | 2.4848G  | 52.08         | 54.00         | -1.92      | 32.30      | 3       | H         | 326        | 1.53      | -        |
| PK   | 2.384G   | 58.33         | 74.00         | -15.67     | 31.99      | 3       | H         | 326        | 1.53      | -        |
| PK   | 2.4576G  | 105.65        | Inf           | -Inf       | 32.22      | 3       | H         | 326        | 1.53      | -        |
| PK   | 2.4876G  | 73.81         | 74.00         | -0.19      | 32.31      | 3       | H         | 326        | 1.53      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2452MHz\_TX

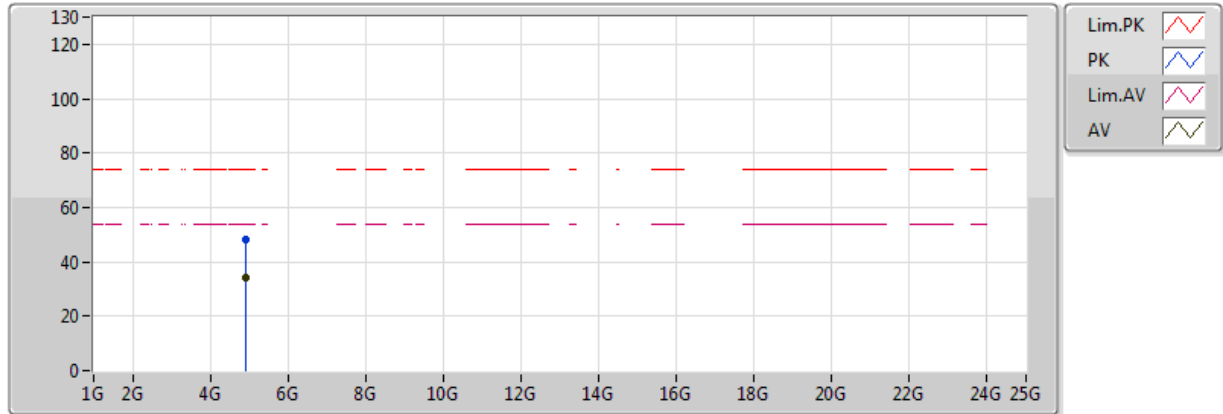


20170705  
EUT Y  
Setting 62  
06-D-1  
FSP

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 2.3892G  | 44.34         | 54.00         | -9.66      | 32.01      | 3       | V         | 130        | 1.26      | -        |
| AV   | 2.4436G  | 96.06         | Inf           | -Inf       | 32.18      | 3       | V         | 130        | 1.26      | -        |
| AV   | 2.4848G  | 48.54         | 54.00         | -5.46      | 32.30      | 3       | V         | 130        | 1.26      | -        |
| PK   | 2.3768G  | 56.02         | 74.00         | -17.98     | 31.97      | 3       | V         | 130        | 1.26      | -        |
| PK   | 2.4644G  | 104.15        | Inf           | -Inf       | 32.24      | 3       | V         | 130        | 1.26      | -        |
| PK   | 2.4872G  | 70.15         | 74.00         | -3.85      | 32.31      | 3       | V         | 130        | 1.26      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2452MHz\_TX

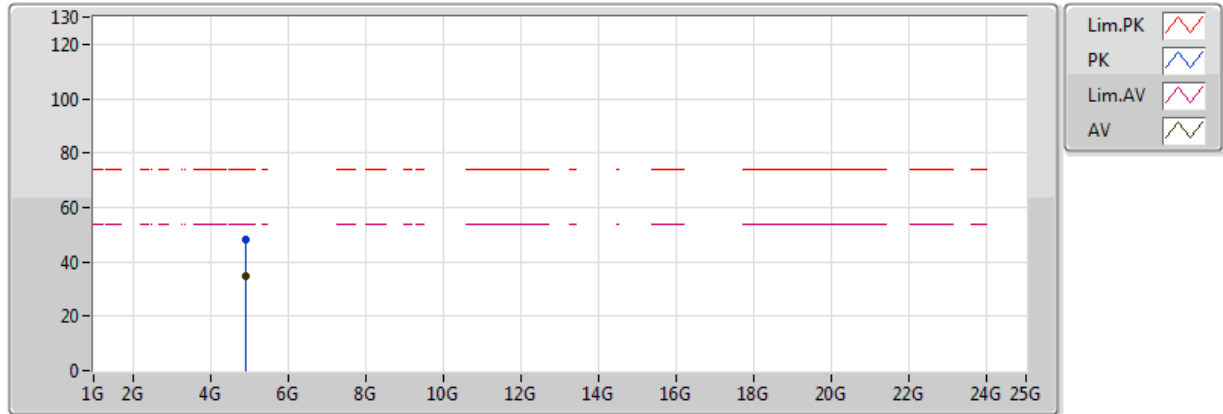


20170705  
EUT Y  
Setting 54  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.9042G   | 34.44         | 54.00         | -19.56     | 6.81       | 3       | V         | 130        | 1.50      | -        |
| PK   | 4.903512G | 47.97         | 74.00         | -26.03     | 6.81       | 3       | V         | 130        | 1.50      | -        |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_3TX

## 2452MHz\_TX



20170705  
EUT Y  
Setting 54  
06-D-1  
FSP

| Type | Freq(Hz)  | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|-----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| AV   | 4.9039G   | 34.48         | 54.00         | -19.52     | 6.81       | 3       | H         | 193        | 1.50      | -        |
| PK   | 4.903364G | 48.09         | 74.00         | -25.91     | 6.81       | 3       | H         | 193        | 1.50      | -        |

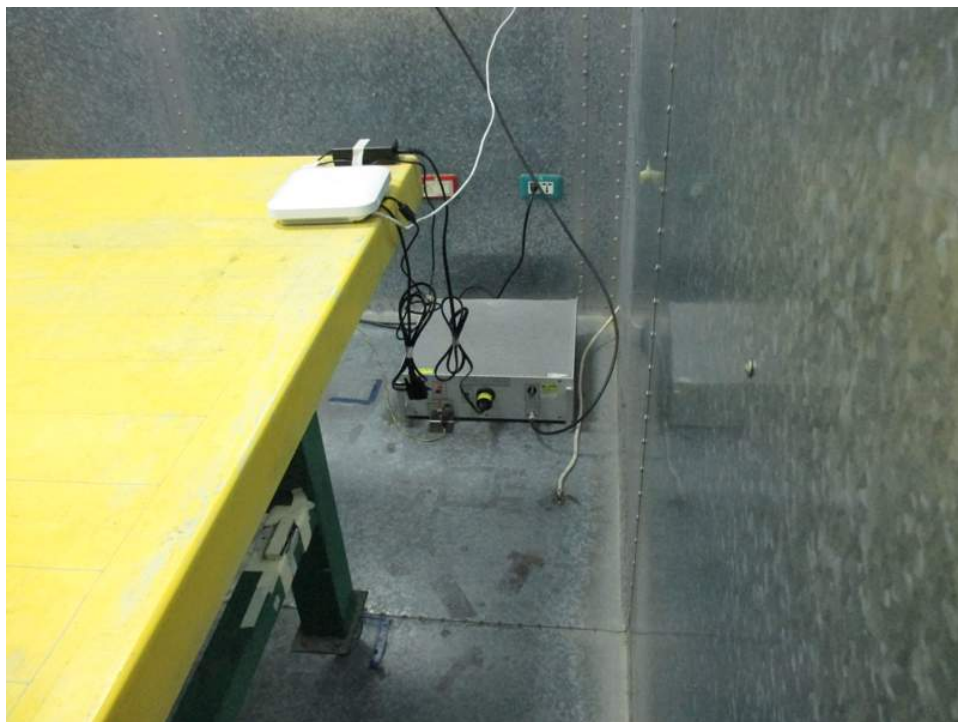
## 1. Photographs of Conducted Emissions Test Configuration

Test Mode: Mode 1

**FRONT VIEW**



**REAR VIEW**

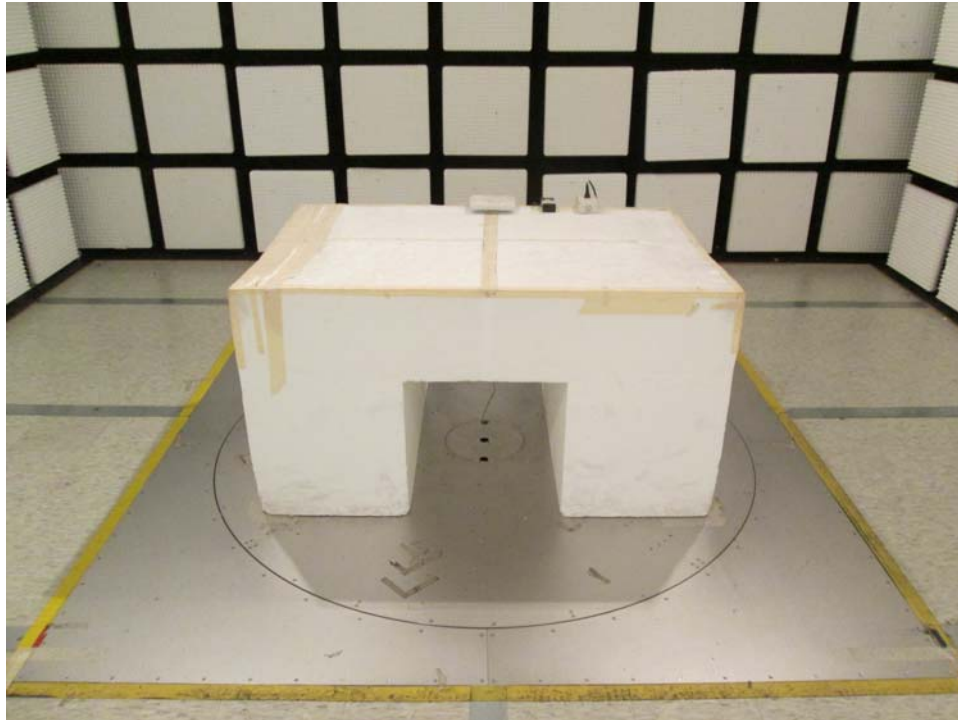


## 2. Photographs of Radiated Emissions Test Configuration

Test Configuration: 30MHz~1GHz

Operating Mode: Intentional – CTX / Test Mode: Mode 1

**FRONT VIEW**



**REAR VIEW**



**Test Configuration: Unintentional – Normal Link / Test Mode: Mode 2**

**FRONT VIEW**



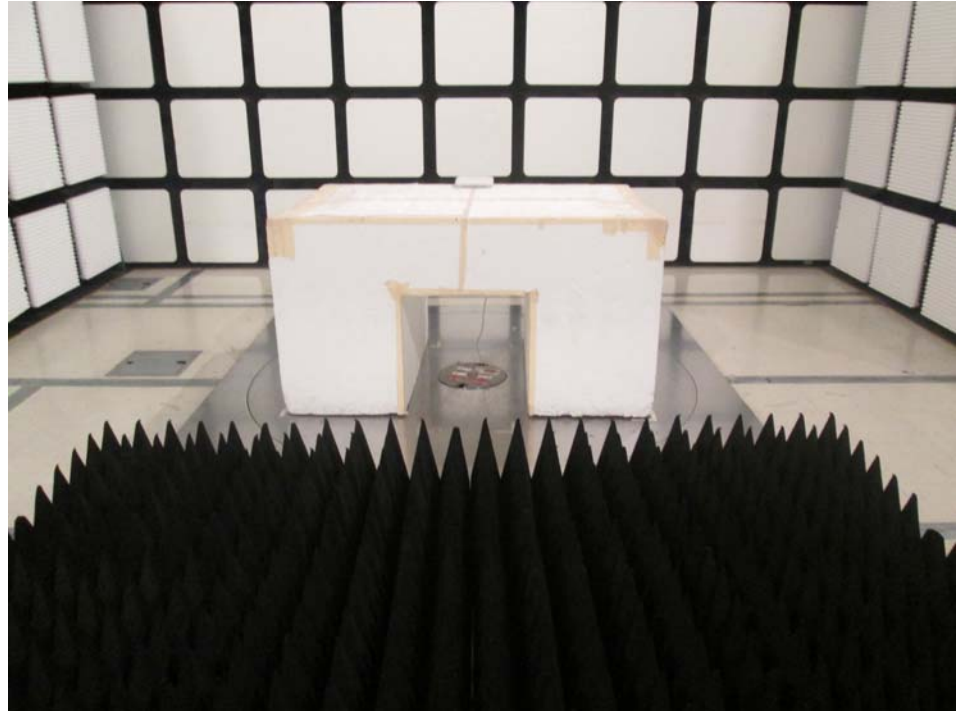
**REAR VIEW**



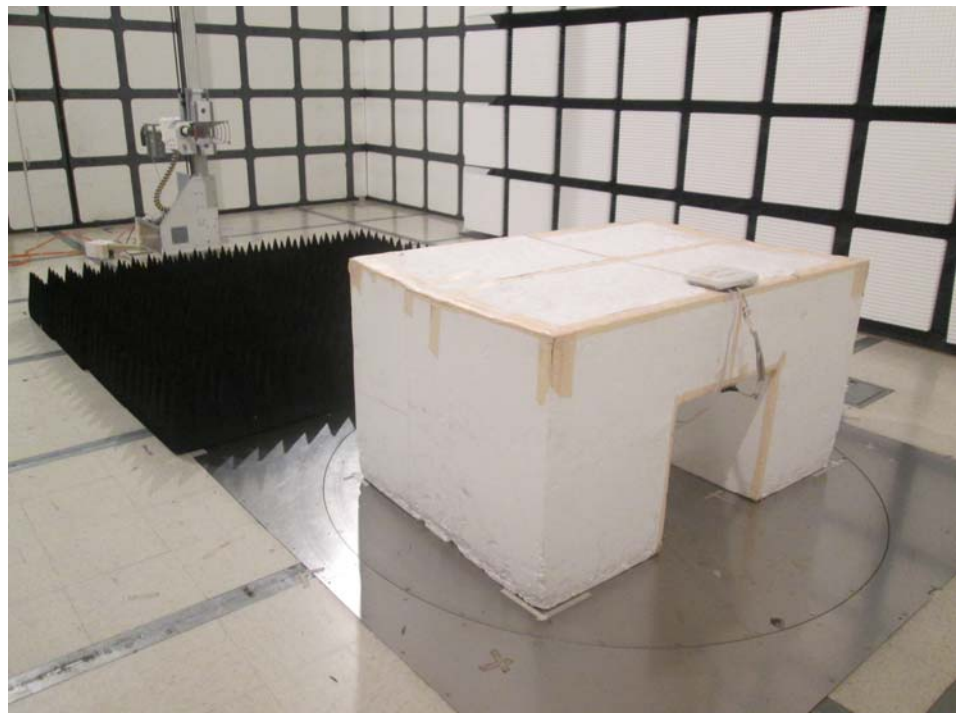
Test Configuration: Above 1GHz

Test Configuration: Unintentional 1GHz~5<sup>th</sup> Harmonic - CRX / Test Mode: Mode 4

**FRONT VIEW**

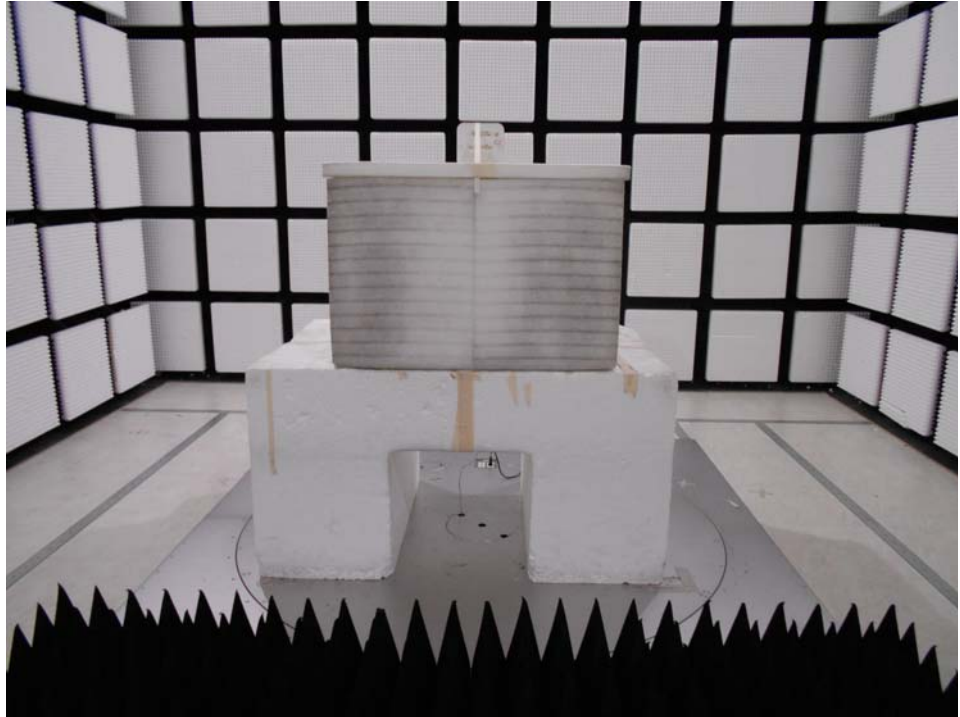


**REAR VIEW**



**Test Configuration: Intentional 1GHz~10<sup>th</sup> Harmonic**

**FRONT VIEW**



**REAR VIEW**

