

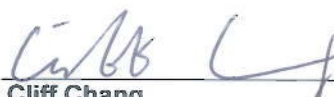


# NCC Test Report

**Equipment** : Wireless Access Point Radio module  
**Brand Name** : riverbed  
**Model No.** : XDR240  
**Standard** : LP0002 Section 3.10.1 (2016-08-23)  
**Operating Band** : 2400 MHz – 2483.5 MHz  
**Function** : ☒ Point-to-multipoint; ☐ Point-to-point  
**Applicant** : RIVERBED TECHNOLOGY INC  
680 Folsom Street San Francisco, California  
94107-1397, USA  
**Manufacturer** : RIVERBED TECHNOLOGY INC  
680 Folsom Street San Francisco, California  
94107-1397, USA

The product sample received on Jul. 22, 2016 and completely tested on Jan. 12, 2018. 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.

  
Cliff Chang  
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         | Fundamental Emission 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 |

Note 1: The EUT is a limited module which only limited to the Wireless Access Point (brand: riverbed / model: XA4240).

The EUT was installed to the Wireless Access Point (brand: riverbed / model: XA4240) to perform all the tests.

Note 2: These four radios will be operated in different bands. If they are used in the same band, the output power of each radio will be reduced to make sure that total power is equal to max output power of single radio module.



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# 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 |
|------|----------|------------|------|
| 2.4G | 11b      | 20         | 4    |
| 2.4G | 11g      | 20         | 4    |
| 2.4G | HT20     | 20         | 4    |
| 2.4G | VHT20    | 20         | 4    |
| 2.4G | VHT20,BF | 20         | 4    |
| 2.4G | HT40     | 40         | 4    |
| 2.4G | VHT40    | 40         | 4    |
| 2.4G | VHT40,BF | 40         | 4    |

**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, 1024QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

### 1.1.2 Antenna Information

| Ant. | Brand          | Model Name | Antenna Type        | Connector    | Gain (dBi) |      |
|------|----------------|------------|---------------------|--------------|------------|------|
|      |                |            |                     |              | 2.4GHz     | 5GHz |
| 1    | EMBEDDED WORKS | EW2458-02  | Dipole Antenna      | Reversed-SMA | 2          | 3    |
| Ant. | Brand          | P/N        | Antenna Type        | Connector    | Gain (dBi) |      |
|      |                |            |                     |              | 2.4GHz     | 5GHz |
| 2    | Laird          | PDQ24499   | Directional Antenna | Reversed-SMA | 8.6        | 9.4  |

Note: The EUT has two type antennas.

The system will install four modules (Radio 1(model: XDR240), Radio 2~ Radio 4(model: XDR241).

The radio 2~4 single radio is same with each other.

Each Radio could connect to 4 chains.

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

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

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

### 1.1.3 Mode Test Duty Cycle

| Mode     | DC    | T(s)                 | VBW(Hz) $\geq 1/T$   |
|----------|-------|----------------------|----------------------|
| 11b      | 0.999 | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| 11g      | 0.991 | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| VHT20    | 0.99  | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| VHT20,BF | 0.989 | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| VHT40    | 0.99  | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| VHT40,BF | 0.979 | 945u                 | 3k                   |

### 1.1.4 EUT Operational Condition

|                             |                                     |                  |                                              |
|-----------------------------|-------------------------------------|------------------|----------------------------------------------|
| <b>EUT Power Type</b>       | From Host system                    |                  |                                              |
| <b>Beamforming Function</b> | <input checked="" type="checkbox"/> | With beamforming | <input type="checkbox"/> Without beamforming |

Note: The product has beamforming function for 802.11n in 5GHz band / 802.11ac in 2.4GHz band and 5GHz band.

## 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

## 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.<br>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.<br>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                                                                                                                  | Satoshi Yang                                                               | 25°C / 61%       | Aug. 21, 2016 ~ Sep. 13, 2016   |
| Radiated       | 03CH01-CB<br>(Intentional 1GHz~10 <sup>th</sup> )                                                                        | Gino Huang /<br>Nyle Chang /<br>Eason Chen /<br>Steven Liang /<br>Peter Wu | 26°C / 59%       | Jul. 22, 2016~<br>Sep. 09, 2016 |
|                | 03CH01-CB<br>(Below 1GHz: Intentional – CTX 、<br>Unintentional – CRX and<br>Unintentional 1GHz~5 <sup>th</sup> Harmonic) | Eddie Weng                                                                 | 26°C / 59%       | Jan. 09, 2018~<br>Jan. 12, 2018 |
| AC Conduction  | CO01-CB<br>(CTX Test)                                                                                                    | Deven Huang                                                                | 24°C / 62%       | Sep. 09, 2016                   |
|                | CO01-CB<br>(CRX Test)                                                                                                    | Howard Liu                                                                 | 21°C / 40%       | Jan. 12, 2018                   |

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)  | 3.2 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% |

## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

For Dipole Antenna

| Band | Mode     | BWch (MHz) | Nss-Min | Nant | Ch. (MHz) | Range | Power Setting |
|------|----------|------------|---------|------|-----------|-------|---------------|
| 2.4G | 11b      | 20         | 1       | 4    | 2412      | L     | 74            |
| 2.4G | 11b      | 20         | 1       | 4    | 2437      | M     | 81            |
| 2.4G | 11b      | 20         | 1       | 4    | 2462      | H     | 73            |
| 2.4G | 11g      | 20         | 1       | 4    | 2412      | L     | 60            |
| 2.4G | 11g      | 20         | 1       | 4    | 2437      | M     | 78            |
| 2.4G | 11g      | 20         | 1       | 4    | 2462      | H     | 65            |
| 2.4G | VHT20    | 20         | 1,(M0)  | 4    | 2412      | L     | 64            |
| 2.4G | VHT20    | 20         | 1,(M0)  | 4    | 2437      | M     | 80            |
| 2.4G | VHT20    | 20         | 1,(M0)  | 4    | 2462      | H     | 65            |
| 2.4G | VHT40    | 40         | 1,(M0)  | 4    | 2422      | L     | 54            |
| 2.4G | VHT40    | 40         | 1,(M0)  | 4    | 2437      | M     | 59            |
| 2.4G | VHT40    | 40         | 1,(M0)  | 4    | 2452      | H     | 55            |
| 2.4G | VHT20,BF | 20         | 1,(M0)  | 4    | 2412      | L     | 57            |
| 2.4G | VHT20,BF | 20         | 1,(M0)  | 4    | 2437      | M     | 80            |
| 2.4G | VHT20,BF | 20         | 1,(M0)  | 4    | 2462      | H     | 60            |
| 2.4G | VHT40,BF | 40         | 1,(M0)  | 4    | 2422      | L     | 49            |
| 2.4G | VHT40,BF | 40         | 1,(M0)  | 4    | 2437      | M     | 58            |
| 2.4G | VHT40,BF | 40         | 1,(M0)  | 4    | 2452      | H     | 52            |

**For Directional Antenna**

| Band | Mode     | BWch (MHz) | Nss-Min | Nant | Ch. (MHz) | Range | Power Setting |
|------|----------|------------|---------|------|-----------|-------|---------------|
| 2.4G | 11b      | 20         | 1       | 4    | 2412      | L     | 69            |
| 2.4G | 11b      | 20         | 1       | 4    | 2437      | M     | 81            |
| 2.4G | 11b      | 20         | 1       | 4    | 2462      | H     | 70            |
| 2.4G | 11g      | 20         | 1       | 4    | 2412      | L     | 53            |
| 2.4G | 11g      | 20         | 1       | 4    | 2437      | M     | 79            |
| 2.4G | 11g      | 20         | 1       | 4    | 2462      | H     | 56            |
| 2.4G | VHT20    | 20         | 1,(M0)  | 4    | 2412      | L     | 56            |
| 2.4G | VHT20    | 20         | 1,(M0)  | 4    | 2437      | M     | 80            |
| 2.4G | VHT20    | 20         | 1,(M0)  | 4    | 2462      | H     | 57            |
| 2.4G | VHT40    | 40         | 1,(M0)  | 4    | 2422      | L     | 46            |
| 2.4G | VHT40    | 40         | 1,(M0)  | 4    | 2437      | M     | 54            |
| 2.4G | VHT40    | 40         | 1,(M0)  | 4    | 2452      | H     | 50            |
| 2.4G | VHT20,BF | 20         | 1,(M0)  | 4    | 2412      | L     | 55            |
| 2.4G | VHT20,BF | 20         | 1,(M0)  | 4    | 2437      | M     | 60            |
| 2.4G | VHT20,BF | 20         | 1,(M0)  | 4    | 2462      | H     | 54            |
| 2.4G | VHT40,BF | 40         | 1,(M0)  | 4    | 2422      | L     | 43            |
| 2.4G | VHT40,BF | 40         | 1,(M0)  | 4    | 2437      | M     | 51            |
| 2.4G | VHT40,BF | 40         | 1,(M0)  | 4    | 2452      | H     | 48            |

Note: 1.VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

2. There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode for 802.11ac. All test results were recorded in the report.

## 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>                                                         | Intentional – CTX                                        |
| 1                                                                             | EUT + Ant.1                                              |
| 2                                                                             | EUT + Ant.2                                              |
| For operating mode 2 is the worst case and it was record in this test report. |                                                          |
| <b>Operating Mode</b>                                                         | Unintentional – CRX                                      |
| 1                                                                             | EUT + Ant.1                                              |
| 2                                                                             | EUT + Ant.2                                              |
| For operating mode 2 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>Fundamental Emission Output Power<br>Power Spectral Density |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains                                     |

| <b>The Worst Case Mode for Following Conformance Tests</b>                                                                                                                                              |                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                                                                                                                                                                       | Emissions in Non-restricted Frequency Bands<br>Emissions in Restricted Frequency Bands                                                                                                                                                              |
| <b>Test Condition</b>                                                                                                                                                                                   | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| <b>Operating Mode &lt; 1GHz</b>                                                                                                                                                                         | Intentional - CTX                                                                                                                                                                                                                                   |
| 1                                                                                                                                                                                                       | EUT X axis + Ant.1                                                                                                                                                                                                                                  |
| 2                                                                                                                                                                                                       | EUT Y axis + Ant.1                                                                                                                                                                                                                                  |
| 3                                                                                                                                                                                                       | EUT Z axis + Ant.1                                                                                                                                                                                                                                  |
| Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.                                                                             |                                                                                                                                                                                                                                                     |
| 4                                                                                                                                                                                                       | EUT Z axis + Ant.2                                                                                                                                                                                                                                  |
| Mode 3 is the worst case, so it was selected to record in this test report.                                                                                                                             |                                                                                                                                                                                                                                                     |
| <b>Operating Mode &lt; 1GHz</b>                                                                                                                                                                         | Unintentional - CRX                                                                                                                                                                                                                                 |
| 1                                                                                                                                                                                                       | EUT X axis + Ant.1                                                                                                                                                                                                                                  |
| 2                                                                                                                                                                                                       | EUT Y axis + Ant.1                                                                                                                                                                                                                                  |
| 3                                                                                                                                                                                                       | EUT Z axis + Ant.1                                                                                                                                                                                                                                  |
| Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.                                                                             |                                                                                                                                                                                                                                                     |
| 4                                                                                                                                                                                                       | EUT Z axis + Ant.2                                                                                                                                                                                                                                  |
| Mode 3 is the worst case, so it was selected to record in this test report.                                                                                                                             |                                                                                                                                                                                                                                                     |
| <b>Operating Mode Unintentional 1GHz~5<sup>th</sup></b>                                                                                                                                                 | Unintentional - CRX                                                                                                                                                                                                                                 |
| 1                                                                                                                                                                                                       | EUT X axis + Ant.1                                                                                                                                                                                                                                  |
| 2                                                                                                                                                                                                       | EUT Y axis + Ant.1                                                                                                                                                                                                                                  |
| 3                                                                                                                                                                                                       | EUT Z axis + Ant.1                                                                                                                                                                                                                                  |
| Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.                                                                             |                                                                                                                                                                                                                                                     |
| 4                                                                                                                                                                                                       | EUT Z axis + Ant.2                                                                                                                                                                                                                                  |
| Mode 3 is the worst case, so it was selected to record in this test report.                                                                                                                             |                                                                                                                                                                                                                                                     |
| <b>Operating Mode Intentional 1GHz~10<sup>th</sup></b>                                                                                                                                                  | CTX                                                                                                                                                                                                                                                 |
| The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration. |                                                                                                                                                                                                                                                     |
| 1                                                                                                                                                                                                       | EUT Y axis + Ant.1                                                                                                                                                                                                                                  |
| 2                                                                                                                                                                                                       | EUT Y axis + Ant.2                                                                                                                                                                                                                                  |

## **2.3 EUT Operation during Test**

### **For CTX:**

#### 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 7 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 Xircon V1.0.2.25.
3. Executed "Lantest.exe " to link with the remote workstation to receive and transmit packet by RX Device and transmit duty cycle no less than 98%.

### **For CRX:**

The EUT was programmed to be in continuously Receiving mode.

## **2.4 Accessories**

N/A

## 2.5 Support Equipment

For Test Site No: CO01-CB (Intentional – CTX 、 Unintentional – CRX)

| Support Equipment |             |            |                |        |
|-------------------|-------------|------------|----------------|--------|
| No.               | Equipment   | Brand Name | Model Name     | FCC ID |
| 1                 | NB          | DELL       | E6430          | DoC    |
| 2                 | PoE         | Microsemi  | PD-9501-10G/AC | DoC    |
| 3                 | Host system | XIRRUS     | XA4240         | DoC    |

For Test Site No: 03CH01-CB

(Below 1GHz: Intentional – CTX 、 Unintentional – CRX and Unintentional 1GHz~5<sup>th</sup> Harmonic)

| Support Equipment |             |            |            |        |
|-------------------|-------------|------------|------------|--------|
| No.               | Equipment   | Brand Name | Model Name | FCC ID |
| 1                 | Notebook    | DELL       | E4300      | DoC    |
| 2                 | Host system | riverbed   | XA4240     | DoC    |
| 3                 | PoE         | Motorola   | PD-7001G   | N/A    |

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

<For Non-Beamforming Mode>

| Support Equipment |             |            |            |        |
|-------------------|-------------|------------|------------|--------|
| No.               | Equipment   | Brand Name | Model Name | FCC ID |
| 1                 | Notebook    | DELL       | E4300      | DoC    |
| 2                 | Host system | XIRRUS     | XA4240     | DoC    |
| 3                 | PoE         | Motorola   | PD-7001G   | N/A    |

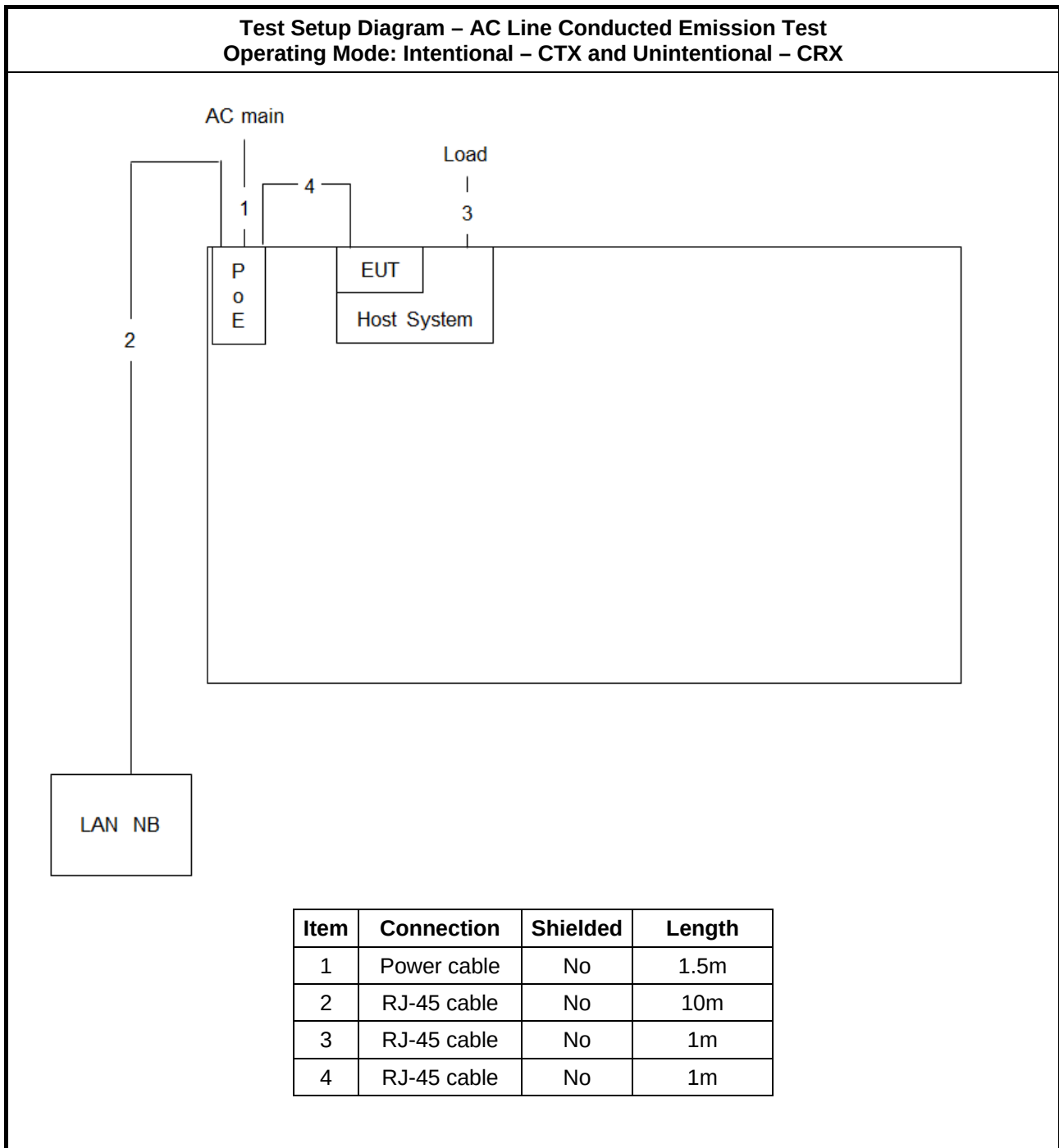
<For Beamforming Mode>

| Support Equipment |             |            |            |        |
|-------------------|-------------|------------|------------|--------|
| No.               | Equipment   | Brand Name | Model Name | FCC ID |
| 1                 | Notebook    | DELL       | E4300      | DoC    |
| 2                 | Notebook    | DELL       | E4300      | DoC    |
| 3                 | WLAN module | Broadcom   | Bcm4366    | N/A    |
| 4                 | PoE         | Motorola   | PD-7001G   | N/A    |
| 5                 | Host system | XIRRUS     | XA4240     | DoC    |

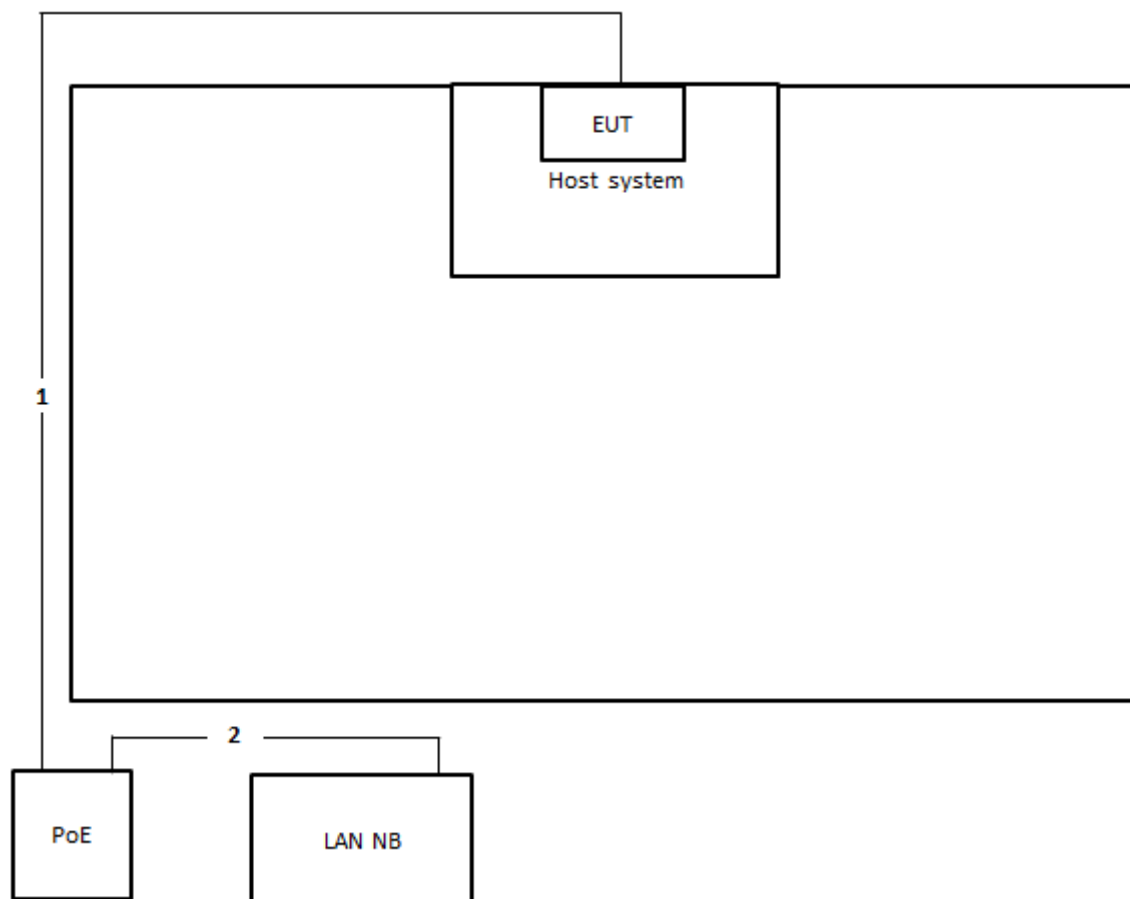
For Test Site No: TH01-CB

| Support Equipment |             |            |            |        |
|-------------------|-------------|------------|------------|--------|
| No.               | Equipment   | Brand Name | Model Name | FCC ID |
| 1                 | Notebook    | DELL       | E4300      | DoC    |
| 2                 | Host system | XIRRUS     | XA4240     | DoC    |
| 3                 | PoE         | Motorola   | PD-7001G   | N/A    |

## 2.6 Test Setup Diagram

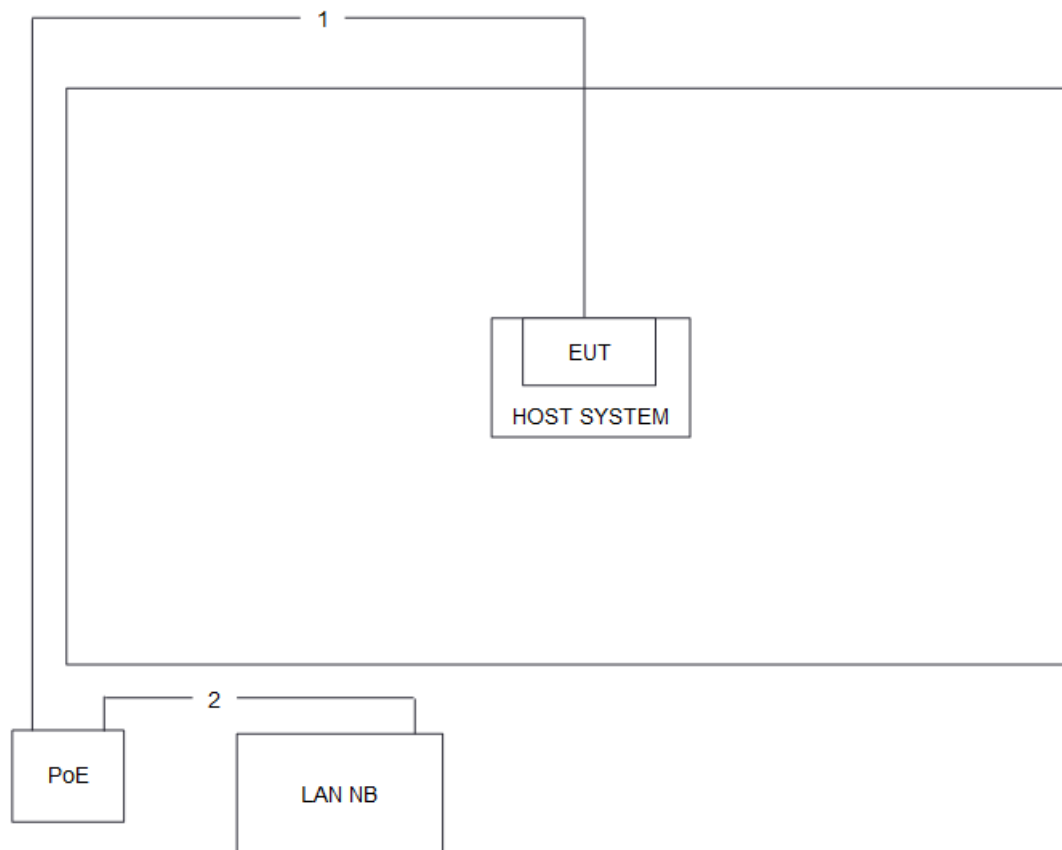


**Test Setup Diagram - Radiated Test < 1GHz and Unintentional 1GHz~5<sup>th</sup> Harmonic**  
**Operating Mode: Intentional – CTX and Unintentional – CRX**



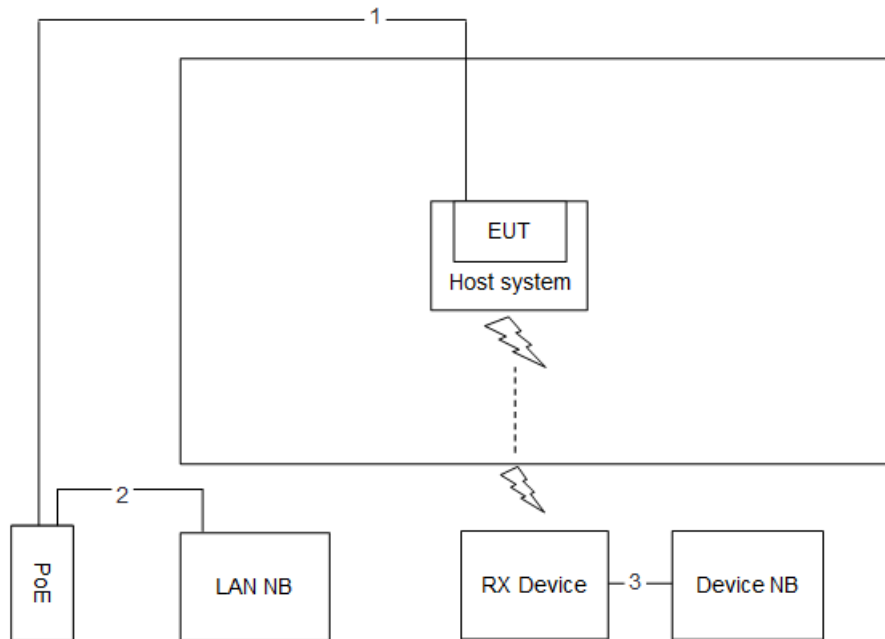
| Item | Connection  | Shielded | Length |
|------|-------------|----------|--------|
| 1    | RJ-45 cable | No       | 10m    |
| 2    | RJ-45 cable | No       | 1.5m   |

**Test Setup Diagram - Radiated Test > 1GHz <For Non-Beamforming Mode>  
Operating Mode: Intentional 1GHz~10<sup>th</sup> Harmonic**



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

**Test Setup Diagram - Radiated Test > 1GHz <For Beamforming Mode>  
Operating Mode: Intentional 1GHz~10<sup>th</sup> Harmonic**



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

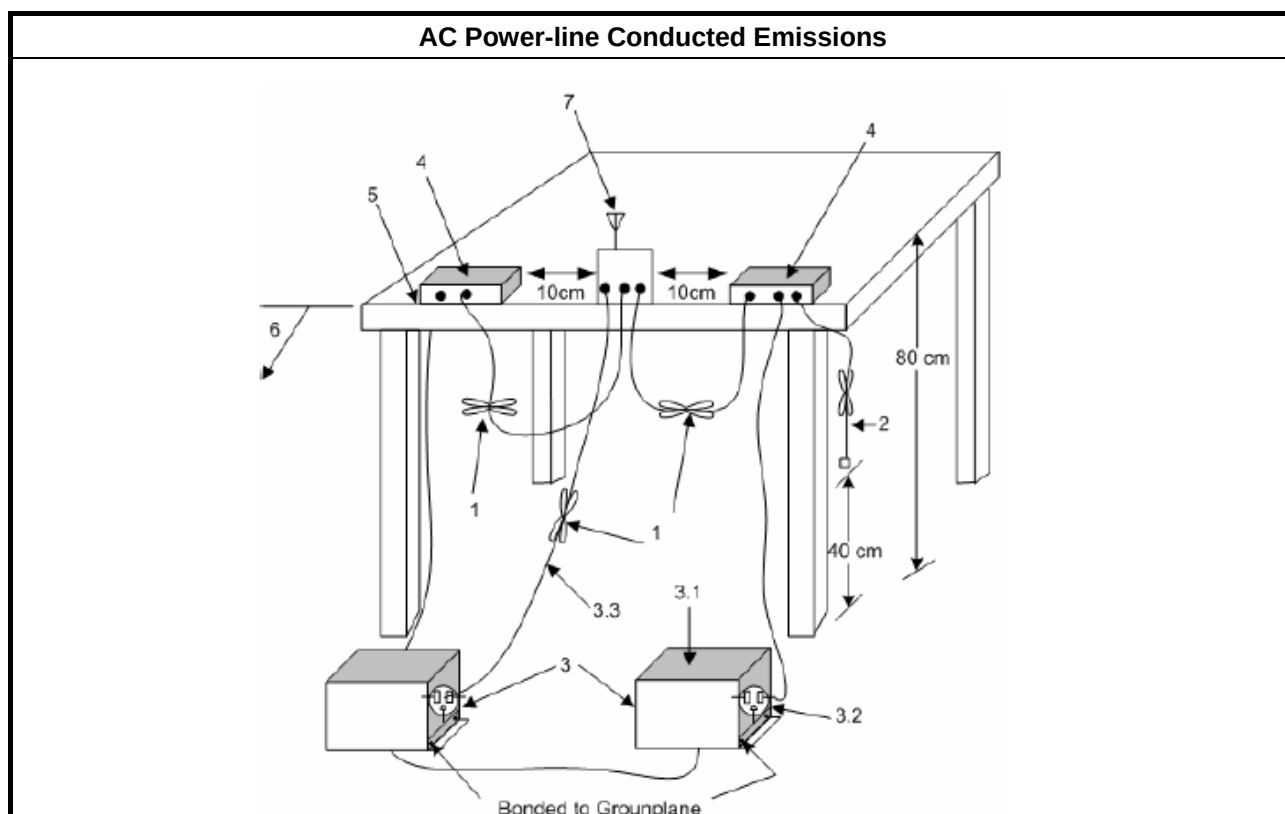
##### 3.1.2 Measuring Instruments

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. |

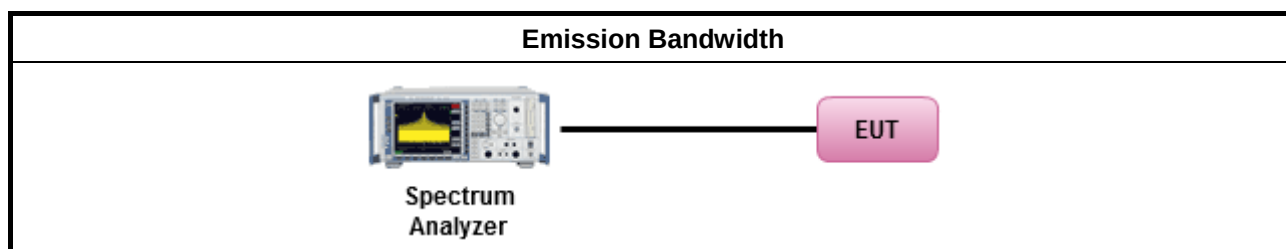
### 3.2.2 Measuring Instruments

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 Fundamental Emission Output Power

#### 3.3.1 Fundamental Emission Output Power Limit

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

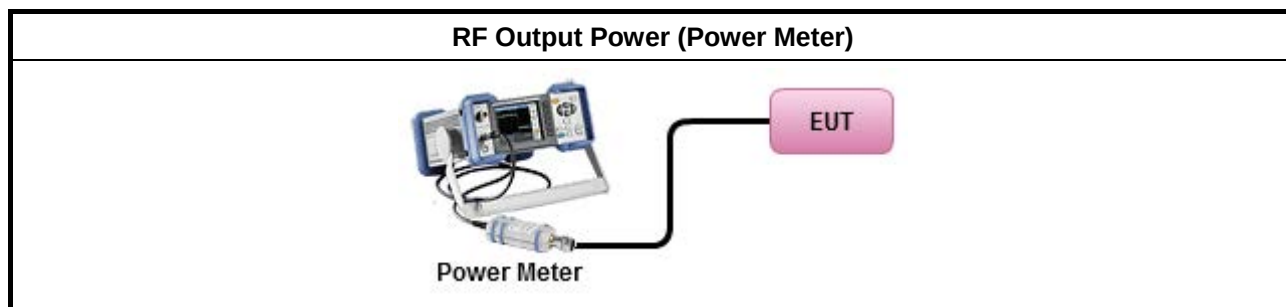
#### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Maximum Peak Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                                  |                                                                                         |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).                      |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)      |
| <ul style="list-style-type: none"> <li>Maximum Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                                       |                                                                                         |
| [duty cycle ≥ 98% or external video / power trigger]                                                                                                                                                                                                                                                                                                                   |                                                                                         |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 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). |
| <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                                                                                |
|-------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Power Spectral Density (PSD) <math>\leq 8</math> dBm/3kHz</li> </ul> |

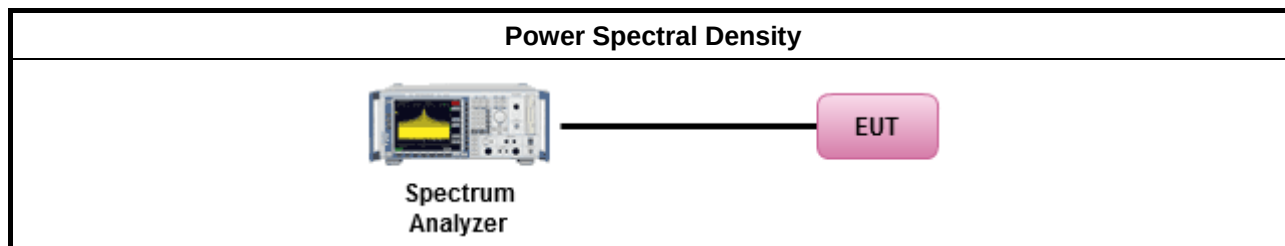
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>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).</li> </ul>                                                                                                         |
| <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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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> |            |

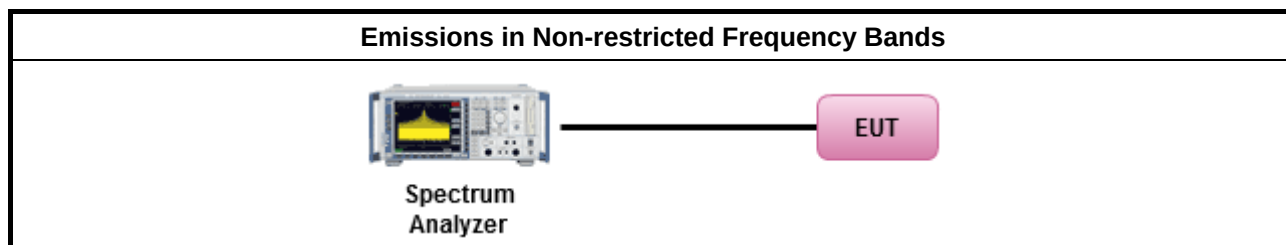
#### 3.5.2 Measuring Instruments

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.

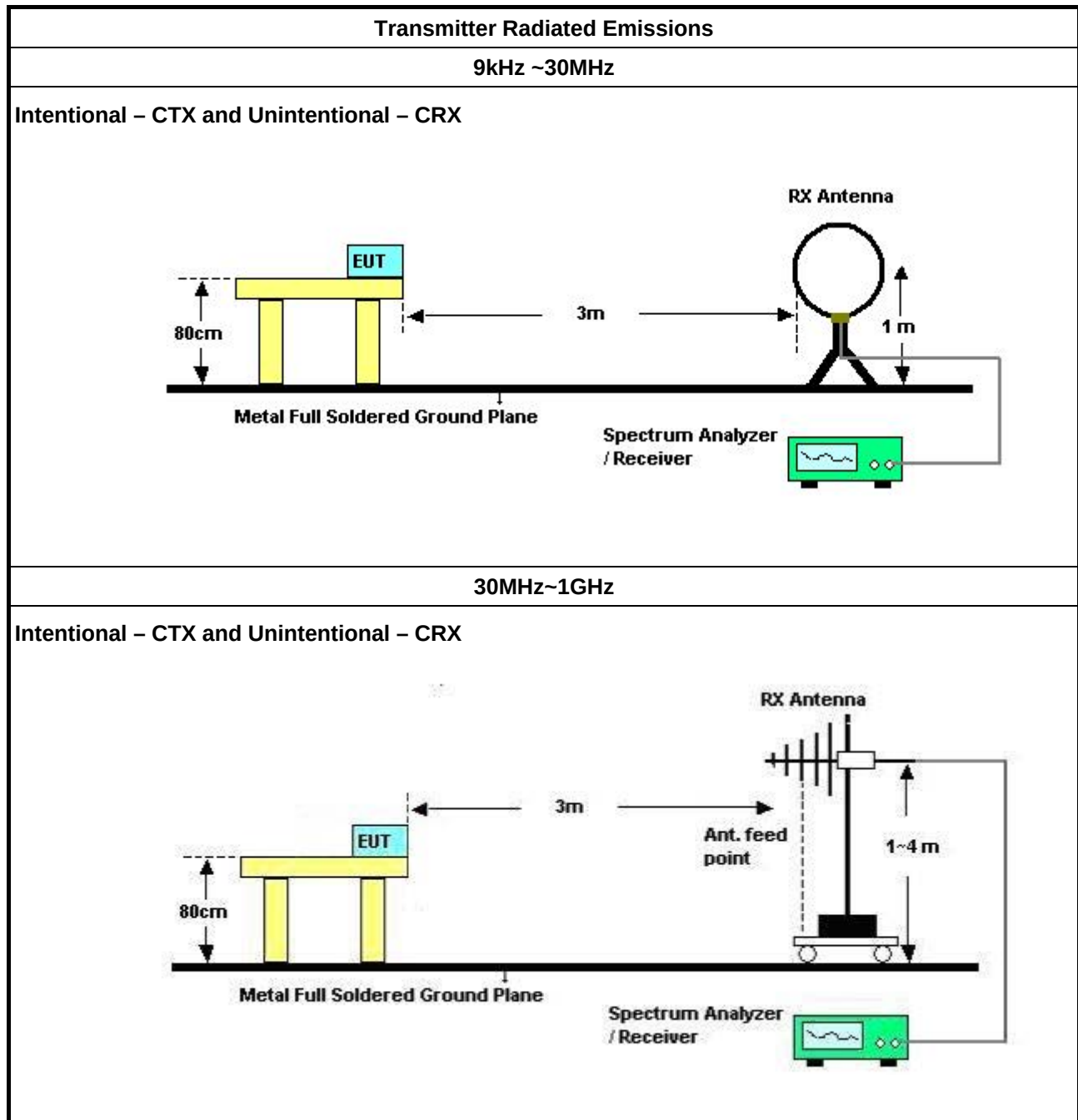
#### 3.6.2 Measuring Instruments

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

### 3.6.3 Test Procedures

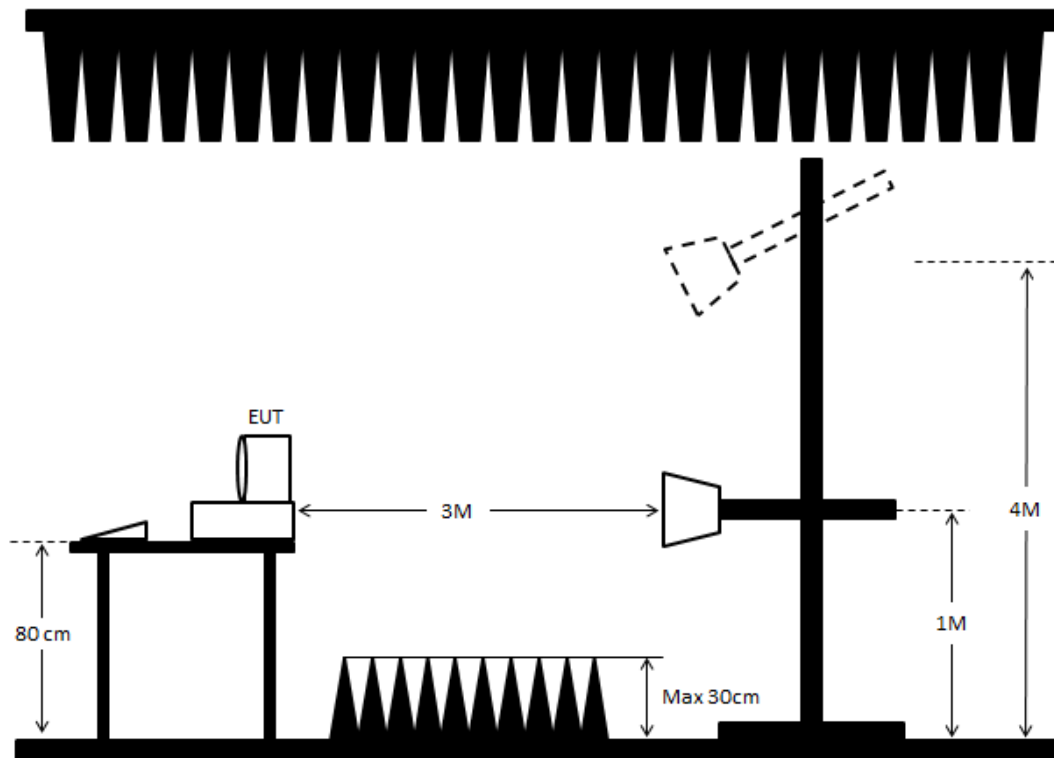
| Test Method                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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

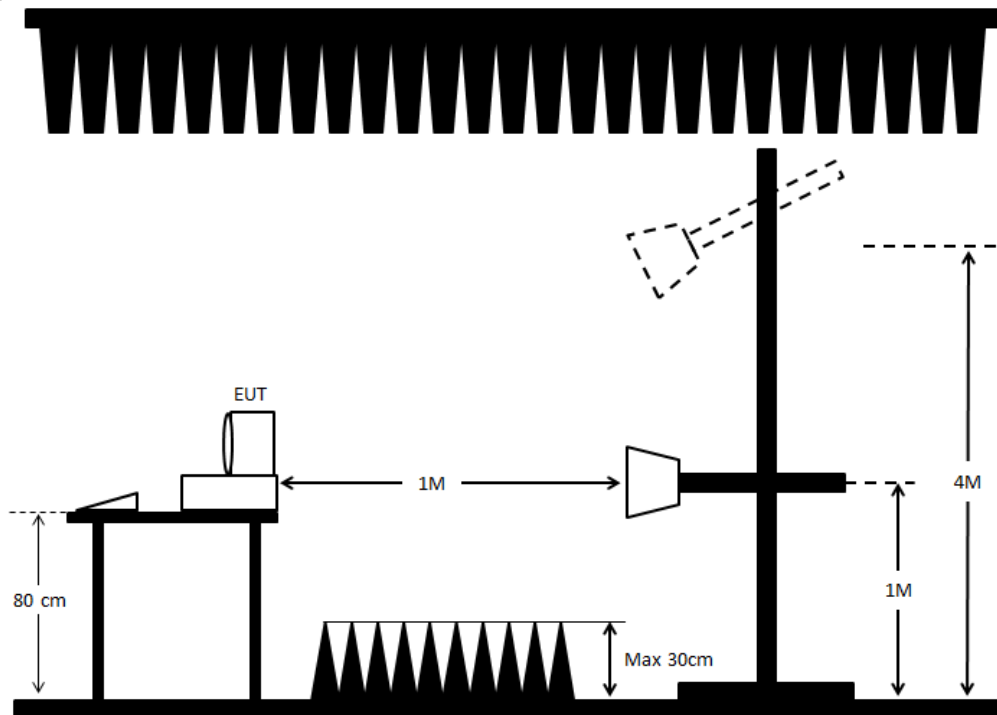


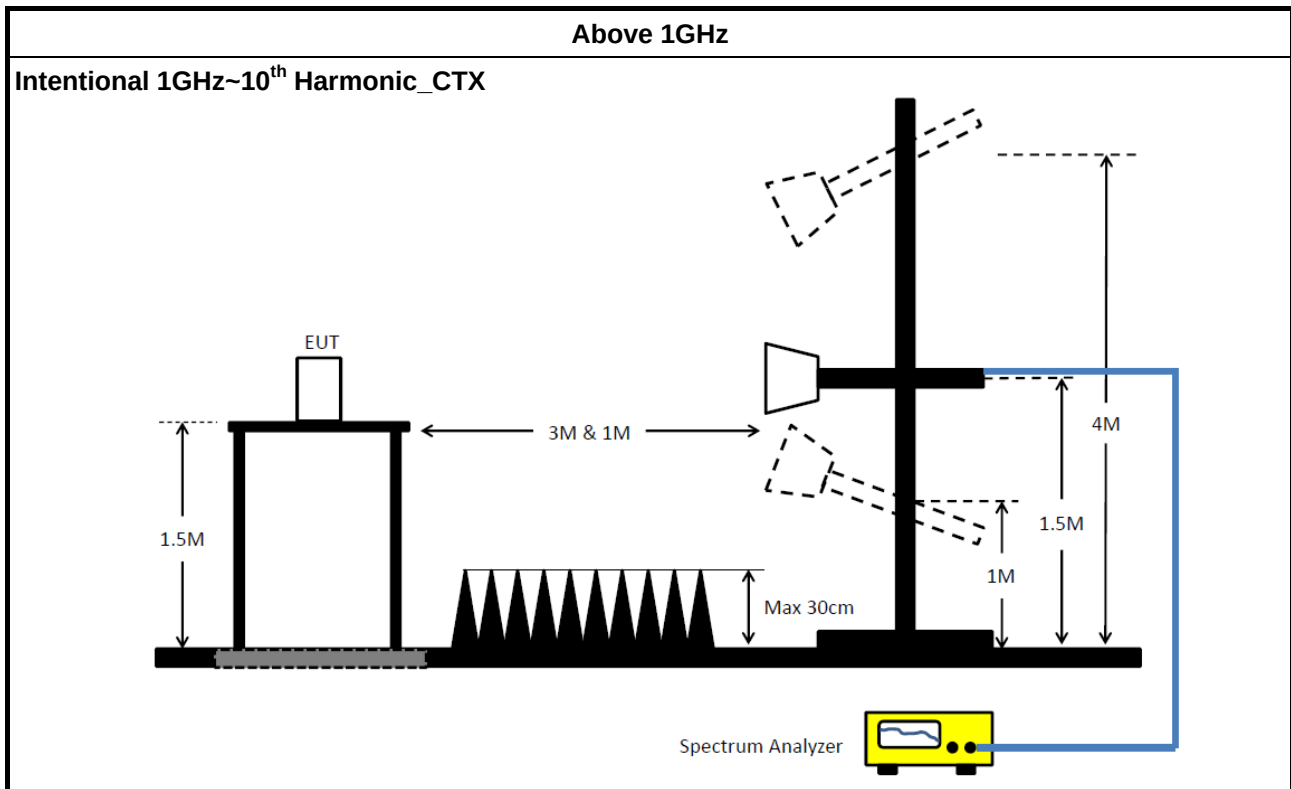
Above 1GHz

Unintentional 1GHz~5<sup>th</sup> Harmonic\_CRX  
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 Receiver                      | Agilent      | N9038A            | My52260123       | 9kHz ~ 8.45GHz  | Jan. 27, 2016    | Jan. 26, 2017        | Conduction (CO01-CB)  |
| EMI Receiver                      | Agilent      | N9038A            | My52260123       | 9kHz ~ 8.45GHz  | Jan. 23, 2017    | Jan. 22, 2018        | Conduction (CO01-CB)  |
| LISN                              | F.C.C.       | FCC-LISN-50-16-2  | 04083            | 150kHz ~ 100MHz | Dec. 08, 2015    | Dec. 07, 2016        | Conduction (CO01-CB)  |
| LISN                              | F.C.C.       | FCC-LISN-50-16-2  | 04083            | 150kHz ~ 100MHz | Dec. 20, 2017    | Dec. 19, 2018        | Conduction (CO01-CB)  |
| LISN                              | Schwarzbeck  | NSLK 8127         | 8127647          | 9kHz ~ 30MHz    | Dec. 23, 2015    | Dec. 22, 2016        | Conduction (CO01-CB)  |
| LISN                              | Schwarzbeck  | NSLK 8127         | 8127478          | 9kHz ~ 30MHz    | Nov. 13, 2017    | Nov. 12, 2018        | Conduction (CO01-CB)  |
| COND Cable                        | Woken        | Cable             | 01               | 150kHz ~ 30MHz  | May 24, 2016     | May 23, 2017         | Conduction (CO01-CB)  |
| COND Cable                        | Woken        | Cable             | 01               | 150kHz ~ 30MHz  | May 23, 2017     | May 22, 2018         | Conduction (CO01-CB)  |
| Software                          | Audix        | E3                | 6.120210n        | -               | N.C.R.           | N.C.R.               | Conduction (CO01-CB)  |
| BILOG ANTENNA with 6dB Attenuator | TESEQ & EMCI | CBL6112D & N-6-06 | 37880 & AT-N0609 | 20MHz ~ 2GHz    | Aug. 30, 2017    | Aug. 29, 2018        | Radiation (03CH01-CB) |
| Loop Antenna                      | Teseq        | HLA 6120          | 24155            | 9kHz - 30 MHz   | Mar. 16, 2016*   | Mar. 15, 2018*       | Radiation (03CH01-CB) |
| Horn Antenna                      | EMCO         | 3115              | 00075790         | 750MHz ~ 18GHz  | Nov. 20, 2017    | Nov. 19, 2018        | Radiation (03CH01-CB) |
| Horn Antenna                      | EMCO         | 3115              | 00075790         | 750MHz ~ 18GHz  | Nov. 10, 2016    | Nov. 09, 2017        | Radiation (03CH01-CB) |
| Horn Antenna                      | Schwarzbeck  | BBHA 9170         | BBHA9170252      | 15GHz ~ 40GHz   | Jul. 05, 2017    | Jul. 04, 2018        | 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                     | Agilent      | 8449B             | 3008A02310       | 1GHz ~ 26.5GHz  | Jan. 16, 2017    | Jan. 15, 2018        | Radiation (03CH01-CB) |
| Pre-Amplifier                     | MITEQ        | TTA1840-35-HG     | 1864479          | 18GHz ~ 40GHz   | Jul. 10, 2017    | Jul. 09, 2018        | Radiation (03CH01-CB) |



## NCC Test Report

Report No. : TR681228-07AA

| Instrument                 | Manufacturer | Model No.        | Serial No.    | Characteristics  | Calibration Date | Calibration Due Date | Remark                |
|----------------------------|--------------|------------------|---------------|------------------|------------------|----------------------|-----------------------|
| Spectrum Analyzer          | R&S          | FSP40            | 100056        | 9kHz ~ 40GHz     | Nov. 22, 2016    | Nov. 21, 2017        | Radiation (03CH01-CB) |
| Spectrum Analyzer          | R&S          | FSP40            | 100056        | 9kHz ~ 40GHz     | Nov. 23, 2017    | Nov. 22, 2018        | Radiation (03CH01-CB) |
| EMI Test                   | R&S          | ESCS             | 100355        | 9kHz ~ 2.75GHz   | May 06, 2017     | May 05, 2018         | 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-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-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-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) |
| Test Software              | Audix        | E3               | 6.2009-I0-7   | N/A              | N/A              | N/A                  | Radiation (03CH01-CB) |
| Spectrum analyzer          | R&S          | FSV40            | 100979        | 9kHz~40GHz       | Dec. 09, 2015    | Dec. 08, 2016        | Conducted (TH01-CB)   |
| Temp. and Humidity Chamber | Ten Billion  | TTH-D3SP         | TBN-931011    | -30~100 degree   | Jun. 03, 2016    | Jun. 02, 2017        | Conducted (TH01-CB)   |
| RF Cable-high              | Woken        | RG402            | High Cable-6  | 1 GHz ~ 26.5 GHz | Nov. 02, 2015    | Jun. 01 2016         | Conducted (TH01-CB)   |
| RF Cable-high              | Woken        | RG402            | High Cable-7  | 1 GHz ~ 26.5 GHz | Nov. 02, 2015    | Jun. 01 2016         | Conducted (TH01-CB)   |
| RF Cable-high              | Woken        | RG402            | High Cable-8  | 1 GHz ~ 26.5 GHz | Nov. 02, 2015    | Jun. 01 2016         | Conducted (TH01-CB)   |
| RF Cable-high              | Woken        | RG402            | High Cable-9  | 1 GHz ~ 26.5 GHz | Nov. 02, 2015    | Jun. 01 2016         | Conducted (TH01-CB)   |
| RF Cable-high              | Woken        | RG402            | High Cable-10 | 1 GHz ~ 26.5 GHz | Nov. 02, 2015    | Jun. 01 2016         | Conducted (TH01-CB)   |



## NCC Test Report

Report No. : TR681228-07AA

| Instrument   | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark              |
|--------------|--------------|-----------|------------|-----------------|------------------|----------------------|---------------------|
| Power Sensor | Agilent      | U2021XA   | MY53410001 | 50MHz~18GHz     | Nov. 02, 2015    | Jun. 01 2016         | 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.



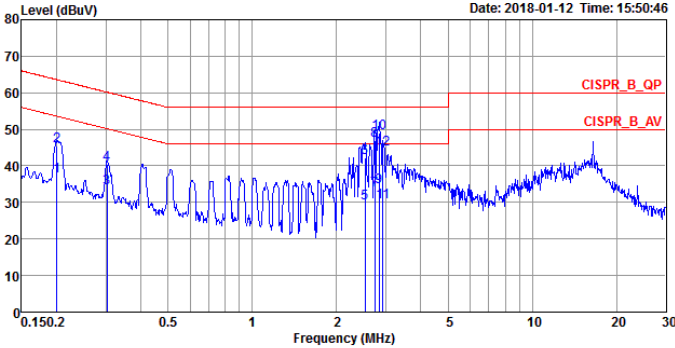
| AC Power-line Conducted Emissions Result                                                                                                                               |                   |       |            |            |            |             |            |           |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|------------|------------|------------|-------------|------------|-----------|---------|
| Operating Mode                                                                                                                                                         | 2                 |       |            |            |            | Power Phase |            | Neutral   |         |
| Operating Function                                                                                                                                                     | Intentional – CTX |       |            |            |            |             |            |           |         |
| <div><div><div>Level (dBuV)</div><div>Date: 2016-09-09 Time: 18:33:26</div><div><div>CISPR_B_QP</div><div>CISPR_B_AV</div><div>Frequency (MHz)</div></div></div></div> |                   |       |            |            |            |             |            |           |         |
|                                                                                                                                                                        | Freq              | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Pol/Phase | Remark  |
|                                                                                                                                                                        | MHz               | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |           |         |
| 1                                                                                                                                                                      | 0.1884            | 38.61 | -15.50     | 54.11      | 28.51      | 9.92        | 0.18       | NEUTRAL   | Average |
| 2                                                                                                                                                                      | 0.1884            | 46.36 | -17.75     | 64.11      | 36.26      | 9.92        | 0.18       | NEUTRAL   | QP      |
| 3                                                                                                                                                                      | 1.0265            | 30.80 | -15.20     | 46.00      | 20.14      | 9.94        | 0.72       | NEUTRAL   | Average |
| 4                                                                                                                                                                      | 1.0265            | 39.17 | -16.83     | 56.00      | 28.51      | 9.94        | 0.72       | NEUTRAL   | QP      |
| 5                                                                                                                                                                      | 1.0997            | 26.88 | -19.12     | 46.00      | 16.29      | 9.94        | 0.65       | NEUTRAL   | Average |
| 6                                                                                                                                                                      | 1.0997            | 34.00 | -22.00     | 56.00      | 23.41      | 9.94        | 0.65       | NEUTRAL   | QP      |
| 7                                                                                                                                                                      | 1.2098            | 35.96 | -10.04     | 46.00      | 25.46      | 9.94        | 0.56       | NEUTRAL   | Average |
| 8                                                                                                                                                                      | 1.2098            | 41.95 | -14.05     | 56.00      | 31.45      | 9.94        | 0.56       | NEUTRAL   | QP      |
| 9                                                                                                                                                                      | 1.5684            | 25.50 | -20.50     | 46.00      | 15.25      | 9.95        | 0.30       | NEUTRAL   | Average |
| 10                                                                                                                                                                     | 1.5684            | 39.69 | -16.31     | 56.00      | 29.44      | 9.95        | 0.30       | NEUTRAL   | QP      |
| 11                                                                                                                                                                     | 15.8854           | 30.33 | -19.67     | 50.00      | 19.87      | 10.24       | 0.22       | NEUTRAL   | Average |
| 12                                                                                                                                                                     | 15.8854           | 42.05 | -17.95     | 60.00      | 31.59      | 10.24       | 0.22       | NEUTRAL   | 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.)

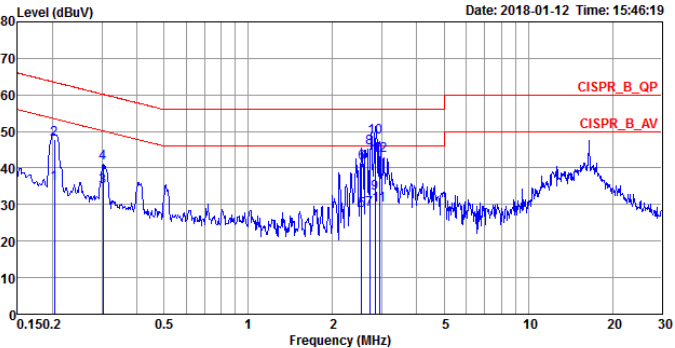
| AC Power-line Conducted Emissions Result                                                                                     |                   |       |            |             |            |             |            |           |         |
|------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|------------|-------------|------------|-------------|------------|-----------|---------|
| Operating Mode                                                                                                               | 2                 |       |            | Power Phase |            |             | Line       |           |         |
| Operating Function                                                                                                           | Intentional – CTX |       |            |             |            |             |            |           |         |
| <div><div><div>Level (dBuV)</div><div>Date: 2016-09-09 Time: 18:34:44</div><div></div><div>Frequency (MHz)</div></div></div> |                   |       |            |             |            |             |            |           |         |
|                                                                                                                              | Freq              | Level | Over Limit | Limit Line  | Read Level | LISN Factor | Cable Loss | Pol/Phase | Remark  |
|                                                                                                                              | MHz               | dBuV  | dB         | dBuV        | dBuV       | dB          | dB         |           |         |
| 1                                                                                                                            | 0.1864            | 39.73 | -14.47     | 54.20       | 29.63      | 9.92        | 0.18       | LINE      | Average |
| 2                                                                                                                            | 0.1864            | 46.84 | -17.36     | 64.20       | 36.74      | 9.92        | 0.18       | LINE      | QP      |
| 3                                                                                                                            | 1.0881            | 26.24 | -19.76     | 46.00       | 15.64      | 9.94        | 0.66       | LINE      | Average |
| 4                                                                                                                            | 1.0881            | 33.29 | -22.71     | 56.00       | 22.69      | 9.94        | 0.66       | LINE      | QP      |
| 5                                                                                                                            | 1.1173            | 34.30 | -11.70     | 46.00       | 23.72      | 9.94        | 0.64       | LINE      | Average |
| 6                                                                                                                            | 1.1173            | 42.64 | -13.36     | 56.00       | 32.06      | 9.94        | 0.64       | LINE      | QP      |
| 7                                                                                                                            | 1.2098            | 33.48 | -12.52     | 46.00       | 22.98      | 9.94        | 0.56       | LINE      | Average |
| 8                                                                                                                            | 1.2098            | 41.87 | -14.13     | 56.00       | 31.37      | 9.94        | 0.56       | LINE      | QP      |
| 9                                                                                                                            | 15.7179           | 31.40 | -18.60     | 50.00       | 20.94      | 10.24       | 0.22       | LINE      | Average |
| 10                                                                                                                           | 15.7179           | 42.55 | -17.45     | 60.00       | 32.09      | 10.24       | 0.22       | LINE      | QP      |
| 11                                                                                                                           | 20.8137           | 24.31 | -25.69     | 50.00       | 13.73      | 10.33       | 0.25       | LINE      | Average |
| 12                                                                                                                           | 20.8137           | 30.91 | -29.09     | 60.00       | 20.33      | 10.33       | 0.25       | 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.)



| AC Power-line Conducted Emissions Result                                                                                                                                                                  |                     |       |        |       |             |        |       |         |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------|--------|-------|-------------|--------|-------|---------|-----------|
| Operating Mode                                                                                                                                                                                            | 2                   |       |        |       | Power Phase |        |       | Neutral |           |
| Operating Function                                                                                                                                                                                        | Unintentional – CRX |       |        |       |             |        |       |         |           |
| <div><div><div>Level (dBuV)</div><div><div><div>Date: 2018-01-12 Time: 15:50:46</div><div></div></div></div></div></div> |                     |       |        |       |             |        |       |         |           |
|                                                                                                                                                                                                           | Freq                | Level | Over   | Limit | Read        | LISN   | Cable | Remark  | Pol/Phase |
|                                                                                                                                                                                                           | MHz                 | dBuV  | Limit  | Line  | Level       | Factor | Loss  |         |           |
| 1                                                                                                                                                                                                         | 0.2007              | 37.27 | -16.31 | 53.58 | 27.13       | 10.01  | 0.13  | Average | NEUTRAL   |
| 2                                                                                                                                                                                                         | 0.2007              | 45.36 | -18.22 | 63.58 | 35.22       | 10.01  | 0.13  | QP      | NEUTRAL   |
| 3                                                                                                                                                                                                         | 0.3035              | 33.85 | -16.30 | 50.15 | 23.64       | 10.15  | 0.06  | Average | NEUTRAL   |
| 4                                                                                                                                                                                                         | 0.3035              | 40.50 | -19.65 | 60.15 | 30.29       | 10.15  | 0.06  | QP      | NEUTRAL   |
| 5                                                                                                                                                                                                         | 2.5266              | 29.85 | -16.15 | 46.00 | 19.73       | 9.95   | 0.17  | Average | NEUTRAL   |
| 6                                                                                                                                                                                                         | 2.5266              | 42.28 | -13.72 | 56.00 | 32.16       | 9.95   | 0.17  | QP      | NEUTRAL   |
| 7                                                                                                                                                                                                         | 2.7356              | 33.49 | -12.51 | 46.00 | 23.38       | 9.95   | 0.16  | Average | NEUTRAL   |
| 8                                                                                                                                                                                                         | 2.7356              | 46.85 | -9.15  | 56.00 | 36.74       | 9.95   | 0.16  | QP      | NEUTRAL   |
| 9                                                                                                                                                                                                         | 2.8390              | 34.27 | -11.73 | 46.00 | 24.16       | 9.95   | 0.16  | Average | NEUTRAL   |
| 10                                                                                                                                                                                                        | 2.8390              | 49.13 | -6.87  | 56.00 | 39.02       | 9.95   | 0.16  | QP      | NEUTRAL   |
| 11                                                                                                                                                                                                        | 2.9307              | 30.13 | -15.87 | 46.00 | 20.03       | 9.95   | 0.15  | Average | NEUTRAL   |
| 12                                                                                                                                                                                                        | 2.9307              | 44.56 | -11.44 | 56.00 | 34.46       | 9.95   | 0.15  | QP      | NEUTRAL   |

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                                                                                                                                                                                              | 2                   |       |            |            | Power Phase |             |            | Line    |           |
| Operating Function                                                                                                                                                                                          | Unintentional – CRX |       |            |            |             |             |            |         |           |
| <div><div><div>Level (dBuV)</div><div><div><div>Date: 2018-01-12 Time: 15:46:19</div><div></div></div></div></div></div> |                     |       |            |            |             |             |            |         |           |
|                                                                                                                                                                                                             | Freq                | Level | Over Limit | Limit Line | Read Level  | LISN Factor | Cable Loss | Remark  | Pol/Phase |
|                                                                                                                                                                                                             | MHz                 | dBuV  | dB         | dBuV       | dBuV        | dB          | dB         |         |           |
| 1                                                                                                                                                                                                           | 0.2029              | 35.72 | -17.77     | 53.49      | 25.68       | 9.91        | 0.13       | Average | LINE      |
| 2                                                                                                                                                                                                           | 0.2029              | 47.83 | -15.66     | 63.49      | 37.79       | 9.91        | 0.13       | QP      | LINE      |
| 3                                                                                                                                                                                                           | 0.3035              | 34.78 | -15.37     | 50.15      | 24.79       | 9.93        | 0.06       | Average | LINE      |
| 4                                                                                                                                                                                                           | 0.3035              | 41.22 | -18.93     | 60.15      | 31.23       | 9.93        | 0.06       | QP      | LINE      |
| 5                                                                                                                                                                                                           | 2.5400              | 28.31 | -17.69     | 46.00      | 18.18       | 9.96        | 0.17       | Average | LINE      |
| 6                                                                                                                                                                                                           | 2.5400              | 41.48 | -14.52     | 56.00      | 31.35       | 9.96        | 0.17       | QP      | LINE      |
| 7                                                                                                                                                                                                           | 2.7191              | 28.64 | -17.36     | 46.00      | 18.52       | 9.96        | 0.16       | Average | LINE      |
| 8                                                                                                                                                                                                           | 2.7191              | 45.38 | -10.62     | 56.00      | 35.26       | 9.96        | 0.16       | QP      | LINE      |
| 9                                                                                                                                                                                                           | 2.8434              | 33.18 | -12.82     | 46.00      | 23.07       | 9.96        | 0.15       | Average | LINE      |
| 10                                                                                                                                                                                                          | 2.8434              | 48.30 | -7.70      | 56.00      | 38.19       | 9.96        | 0.15       | QP      | LINE      |
| 11                                                                                                                                                                                                          | 2.9405              | 29.67 | -16.33     | 46.00      | 19.56       | 9.96        | 0.15       | Average | LINE      |
| 12                                                                                                                                                                                                          | 2.9405              | 43.42 | -12.58     | 56.00      | 33.31       | 9.96        | 0.15       | QP      | LINE      |
| <div>Note 1: "&gt;20dB" means emission levels that exceed the level of 20 dB below the applicable limit.<br/>Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)</div>                |                     |       |            |            |             |             |            |         |           |



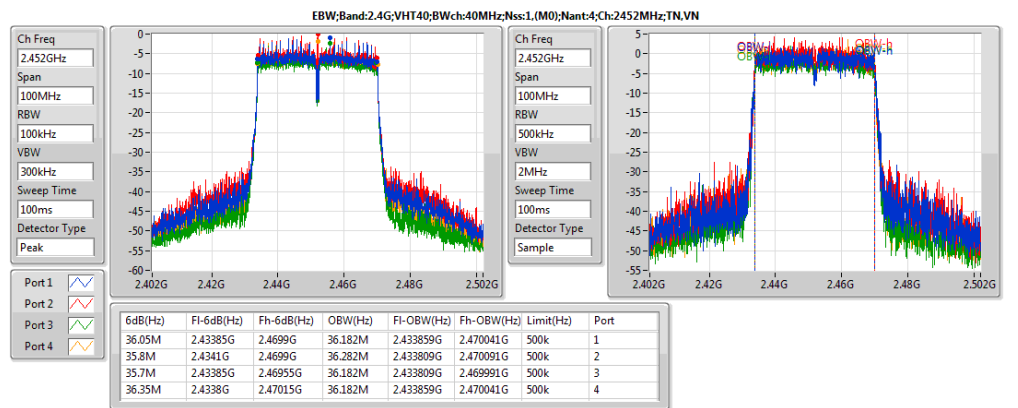
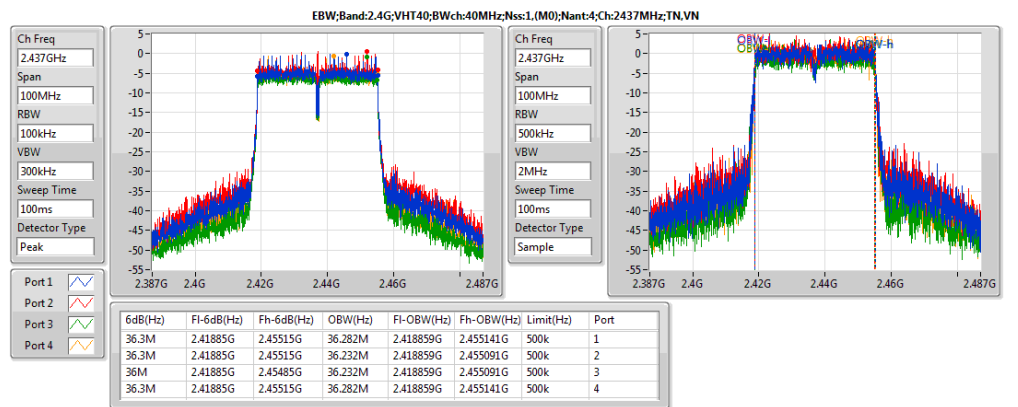
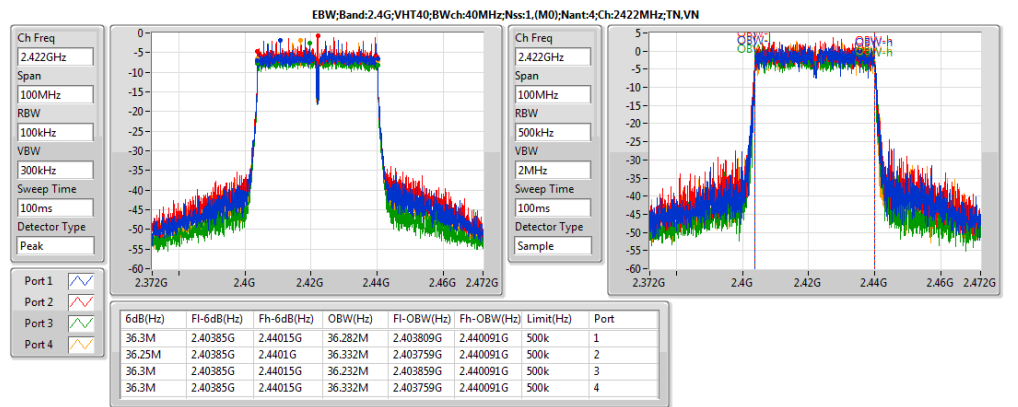
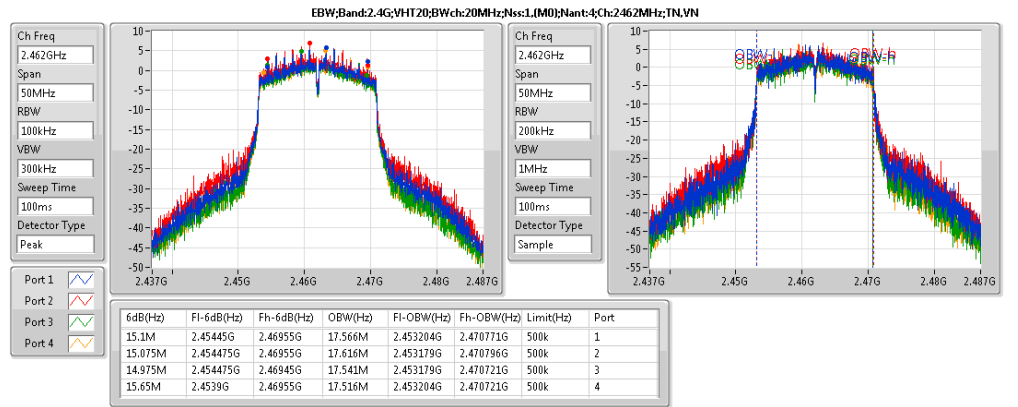
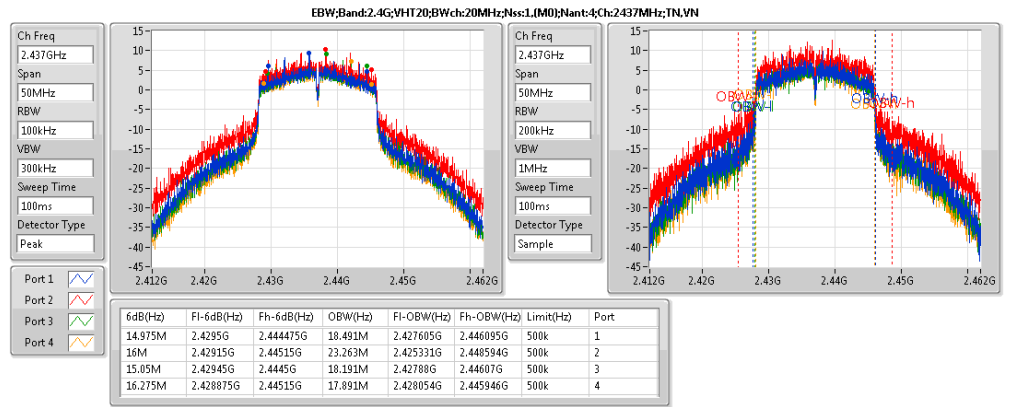
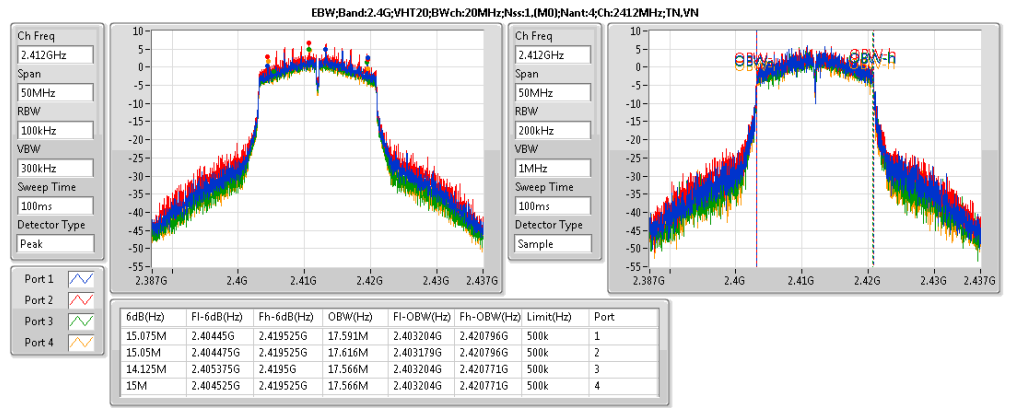
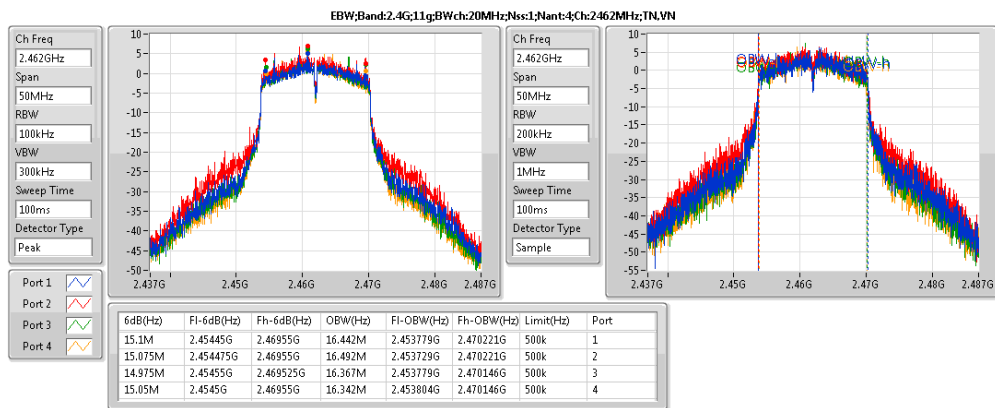
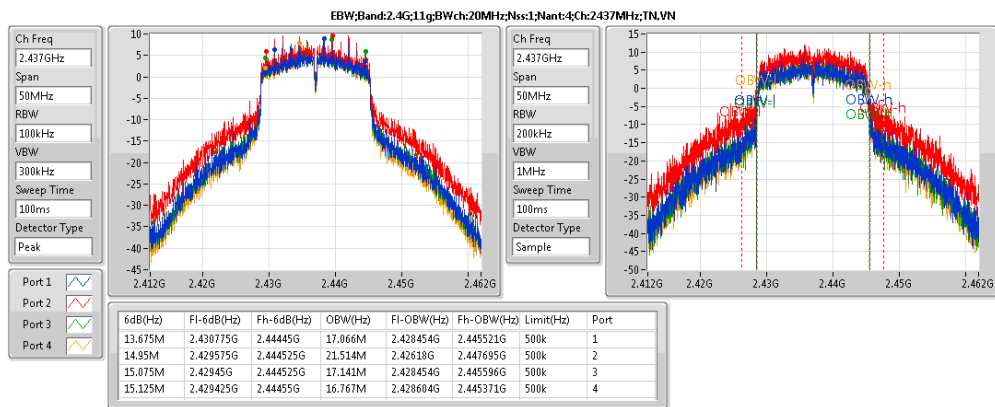
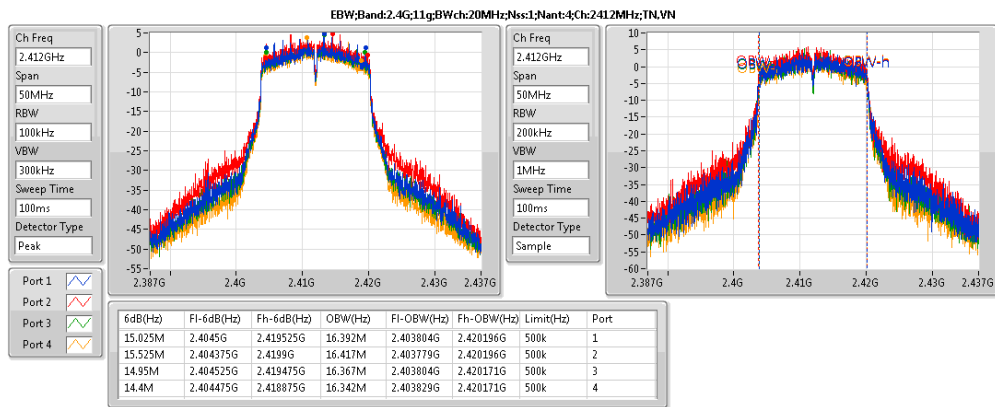
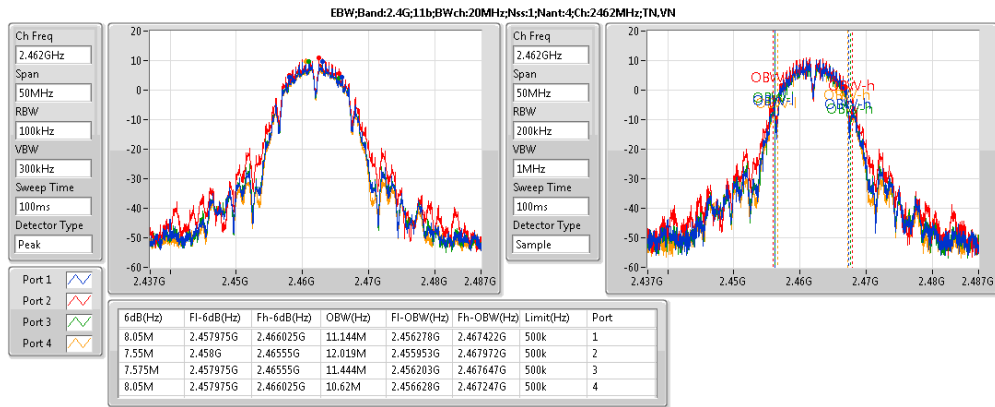
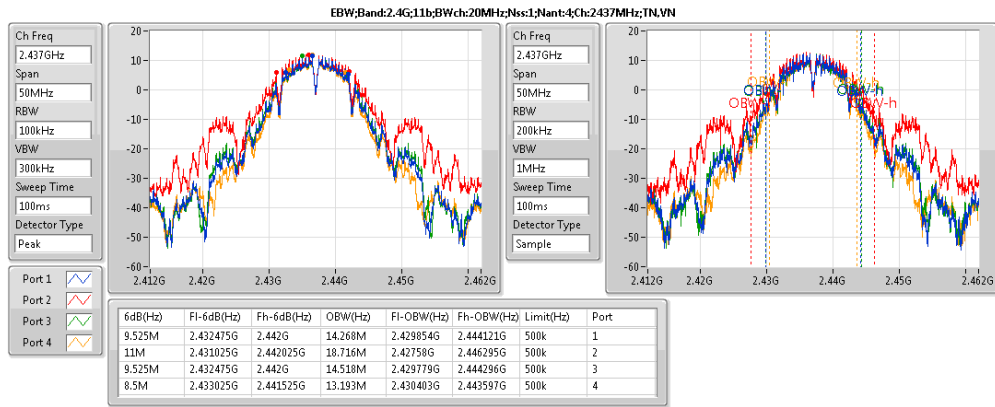
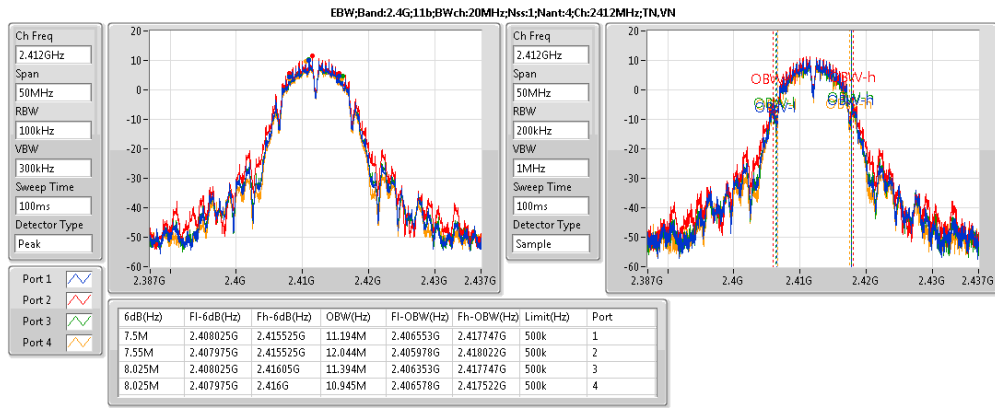
Summary

| Mode                         | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4G;11b;Nss1;Ntx4           | 11M              | 18.716M         | 18M7G1D  | 7.5M             | 10.62M          |
| 2.4G;11g;Nss1;Ntx4           | 15.525M          | 21.514M         | 21M5D1D  | 13.675M          | 16.342M         |
| 2.4G;VHT20;Nss1,(M0);Ntx4    | 16.275M          | 23.263M         | 23M3D1D  | 14.125M          | 17.516M         |
| 2.4G;VHT40;Nss1,(M0);Ntx4    | 36.35M           | 36.332M         | 36M3D1D  | 35.7M            | 36.182M         |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4 | 15.7M            | 23.238M         | 23M2D1D  | 12.55M           | 17.516M         |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4 | 36.3M            | 36.332M         | 36M3D1D  | 35.65M           | 36.182M         |



Result

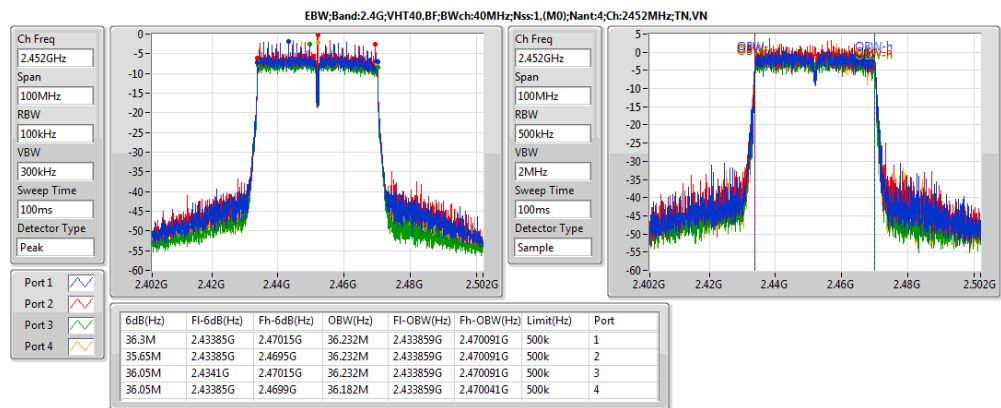
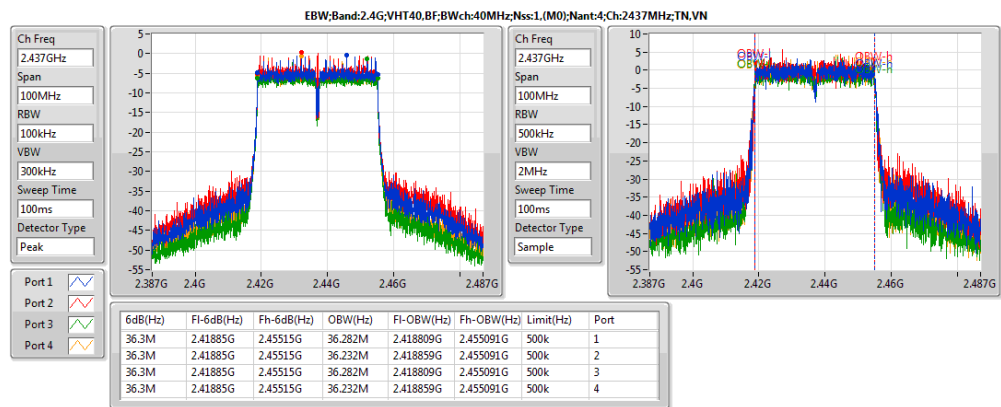
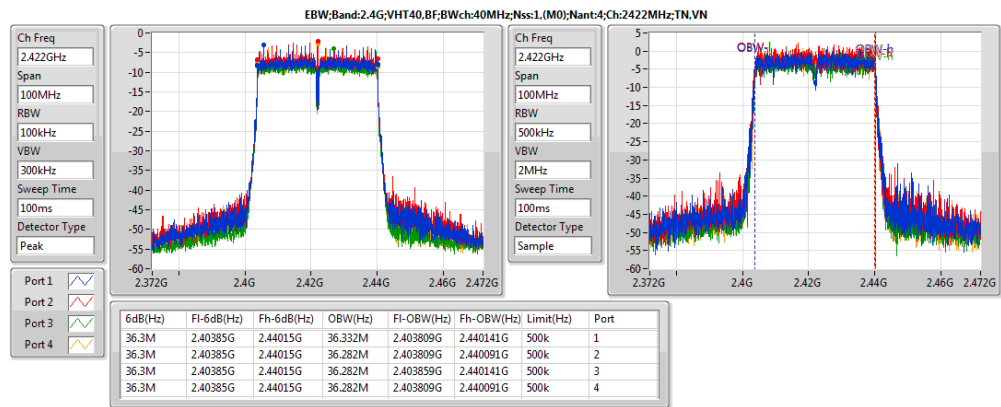
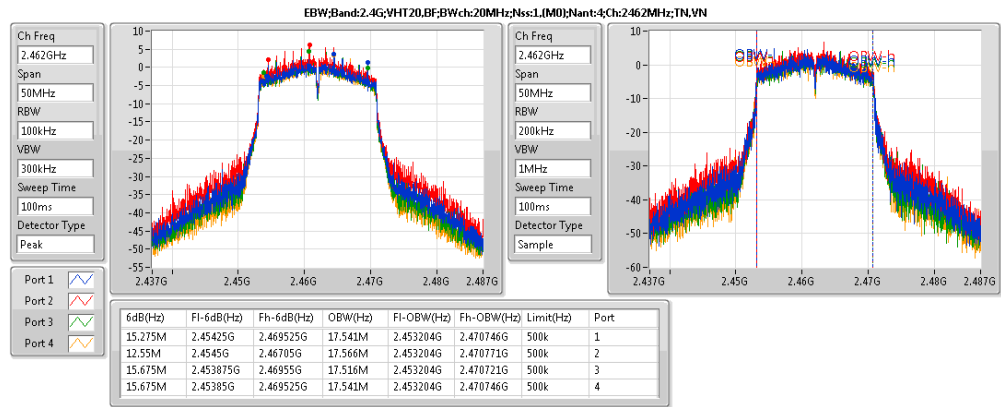
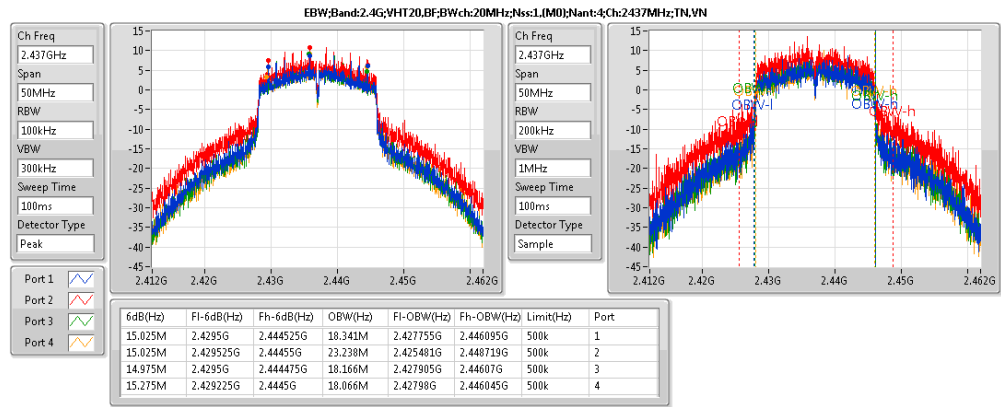
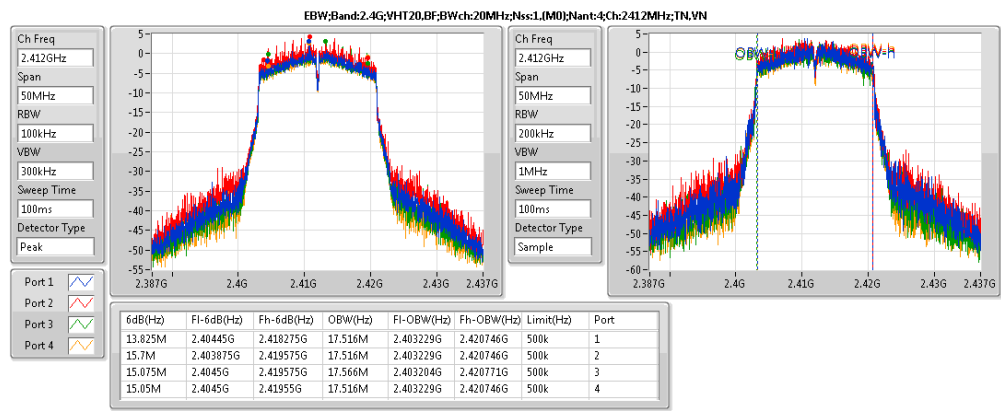
| Mode                              | Result | Limit | P1-N dB<br>(Hz) | P1-OBW<br>(Hz) | P2-N dB<br>(Hz) | P2-OBW<br>(Hz) | P3-N dB<br>(Hz) | P3-OBW<br>(Hz) | P4-N dB<br>(Hz) | P4-OBW<br>(Hz) |
|-----------------------------------|--------|-------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
| 2.4G;11b;Nss1;Ntx4;2412           | Pass   | 500k  | 7.5M            | 11.194M        | 7.55M           | 12.044M        | 8.025M          | 11.394M        | 8.025M          | 10.945M        |
| 2.4G;11b;Nss1;Ntx4;2437           | Pass   | 500k  | 9.525M          | 14.268M        | 11M             | 18.716M        | 9.525M          | 14.518M        | 8.5M            | 13.193M        |
| 2.4G;11b;Nss1;Ntx4;2462           | Pass   | 500k  | 8.05M           | 11.144M        | 7.55M           | 12.019M        | 7.575M          | 11.444M        | 8.05M           | 10.62M         |
| 2.4G;11g;Nss1;Ntx4;2412           | Pass   | 500k  | 15.025M         | 16.392M        | 15.525M         | 16.417M        | 14.95M          | 16.367M        | 14.4M           | 16.342M        |
| 2.4G;11g;Nss1;Ntx4;2437           | Pass   | 500k  | 13.675M         | 17.066M        | 14.95M          | 21.514M        | 15.075M         | 17.141M        | 15.125M         | 16.767M        |
| 2.4G;11g;Nss1;Ntx4;2462           | Pass   | 500k  | 15.1M           | 16.442M        | 15.075M         | 16.492M        | 14.975M         | 16.367M        | 15.05M          | 16.342M        |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2412    | Pass   | 500k  | 15.075M         | 17.591M        | 15.05M          | 17.616M        | 14.125M         | 17.566M        | 15M             | 17.566M        |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2437    | Pass   | 500k  | 14.975M         | 18.491M        | 16M             | 23.263M        | 15.05M          | 18.191M        | 16.275M         | 17.891M        |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2462    | Pass   | 500k  | 15.1M           | 17.566M        | 15.075M         | 17.616M        | 14.975M         | 17.541M        | 15.65M          | 17.516M        |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2422    | Pass   | 500k  | 36.3M           | 36.282M        | 36.25M          | 36.332M        | 36.3M           | 36.232M        | 36.3M           | 36.332M        |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2437    | Pass   | 500k  | 36.3M           | 36.282M        | 36.3M           | 36.232M        | 36M             | 36.232M        | 36.3M           | 36.282M        |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2452    | Pass   | 500k  | 36.05M          | 36.182M        | 35.8M           | 36.282M        | 35.7M           | 36.182M        | 36.35M          | 36.182M        |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412 | Pass   | 500k  | 13.825M         | 17.516M        | 15.7M           | 17.516M        | 15.075M         | 17.566M        | 15.05M          | 17.516M        |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437 | Pass   | 500k  | 15.025M         | 18.341M        | 15.025M         | 23.238M        | 14.975M         | 18.166M        | 15.275M         | 18.066M        |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462 | Pass   | 500k  | 15.275M         | 17.541M        | 12.55M          | 17.566M        | 15.675M         | 17.516M        | 15.675M         | 17.541M        |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422 | Pass   | 500k  | 36.3M           | 36.332M        | 36.3M           | 36.282M        | 36.3M           | 36.282M        | 36.3M           | 36.282M        |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437 | Pass   | 500k  | 36.3M           | 36.282M        | 36.3M           | 36.232M        | 36.3M           | 36.282M        | 36.3M           | 36.232M        |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452 | Pass   | 500k  | 36.3M           | 36.232M        | 35.65M          | 36.232M        | 36.05M          | 36.232M        | 36.05M          | 36.182M        |





Antenna 1 EBW Result

Appendix B





Summary

| Mode                         | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4G;11b;Nss1;Ntx4           | 10.05M           | 25.012M         | 25M0G1D  | 7.05M            | 10.295M         |
| 2.4G;11g;Nss1;Ntx4           | 16.275M          | 31.109M         | 31M1D1D  | 12.625M          | 16.317M         |
| 2.4G;VHT20;Nss1,(M0);Ntx4    | 16.3M            | 24.363M         | 24M4D1D  | 14.1M            | 17.516M         |
| 2.4G;VHT40;Nss1,(M0);Ntx4    | 36.35M           | 36.332M         | 36M3D1D  | 35.7M            | 36.182M         |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4 | 16.925M          | 17.616M         | 17M6D1D  | 13.75M           | 17.516M         |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4 | 36.35M           | 36.282M         | 36M3D1D  | 35.9M            | 36.082M         |



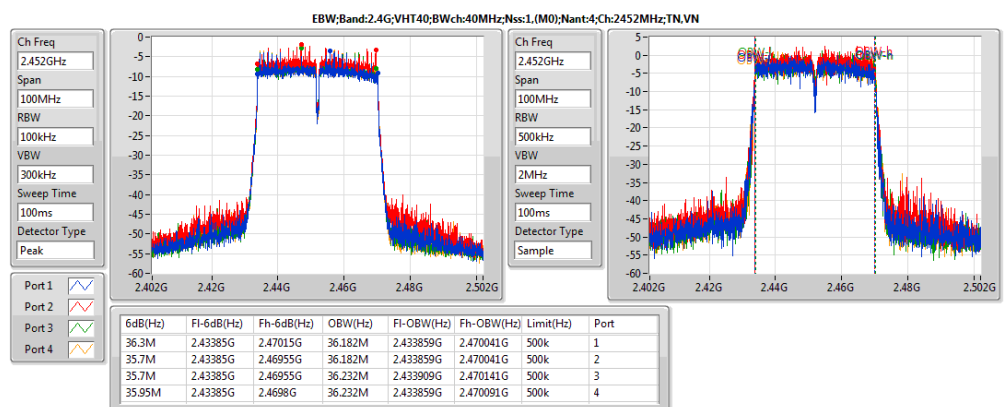
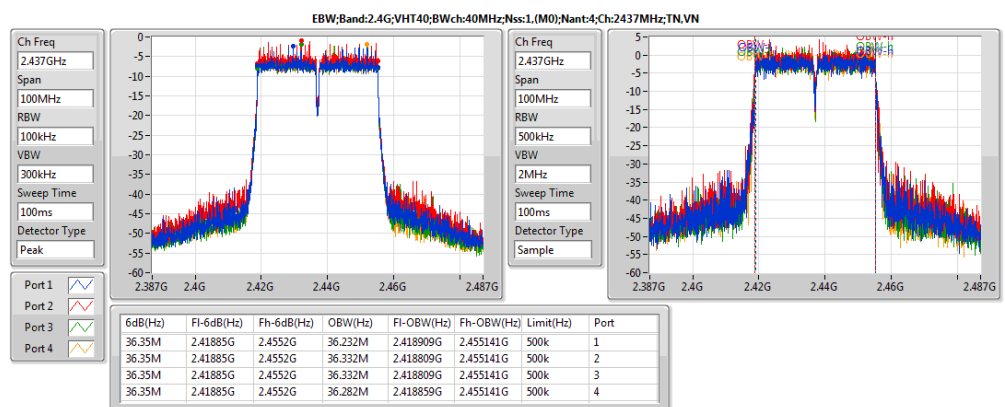
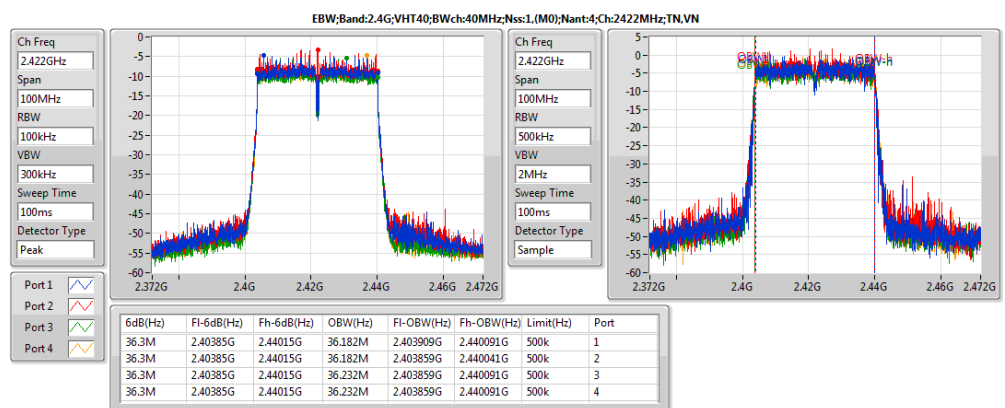
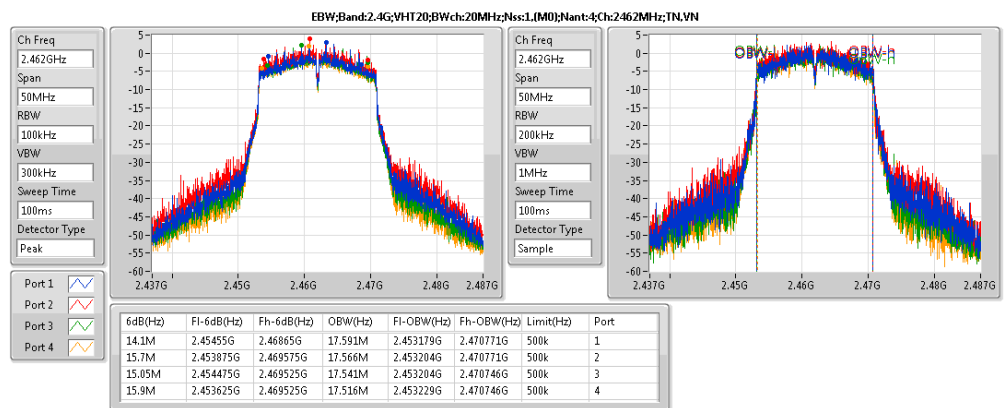
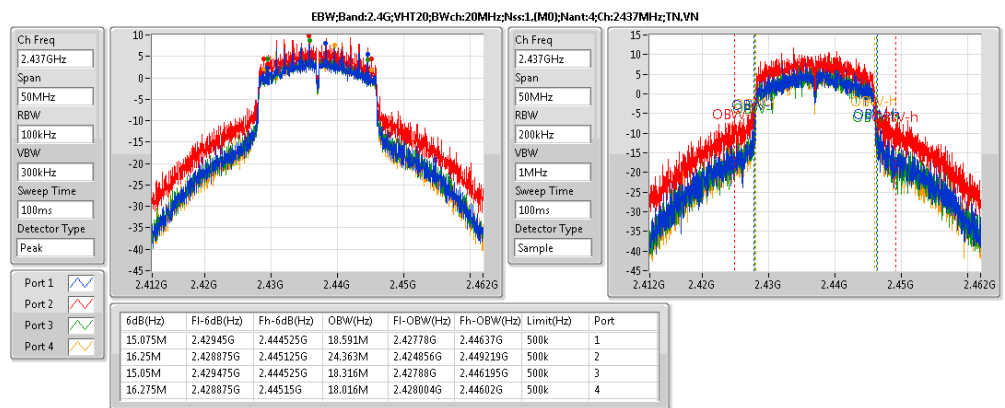
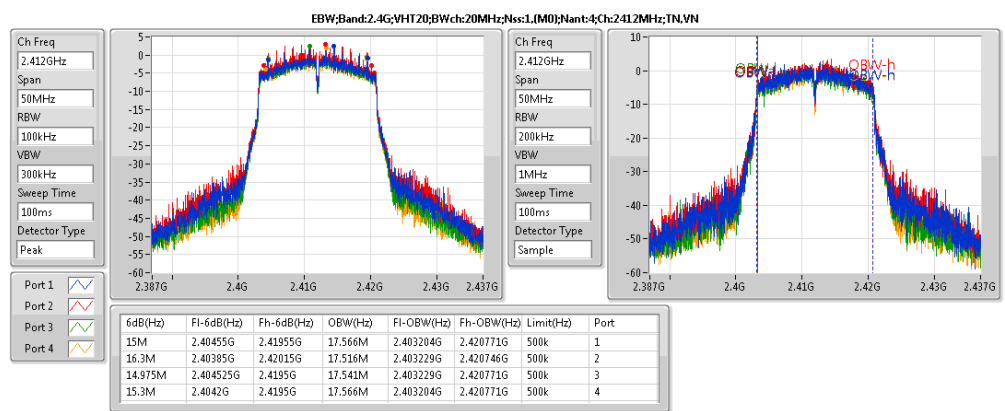
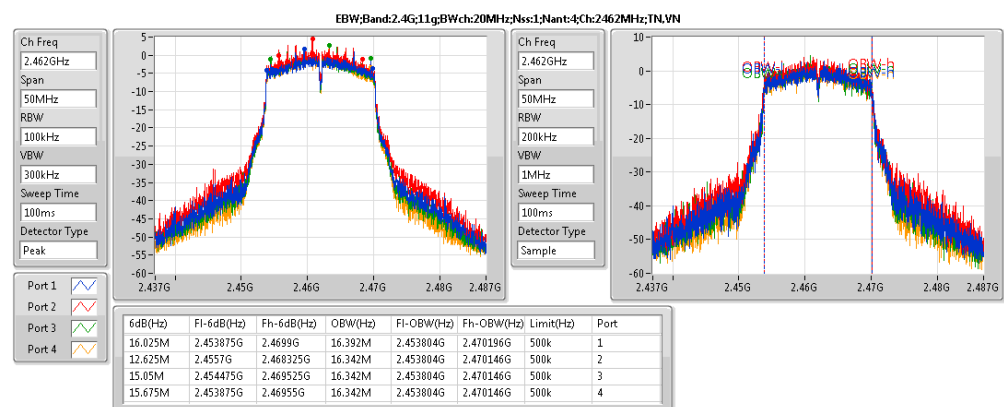
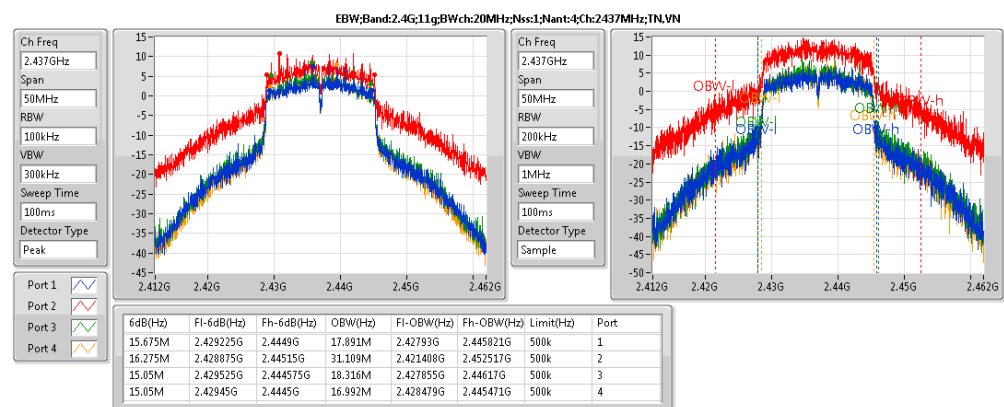
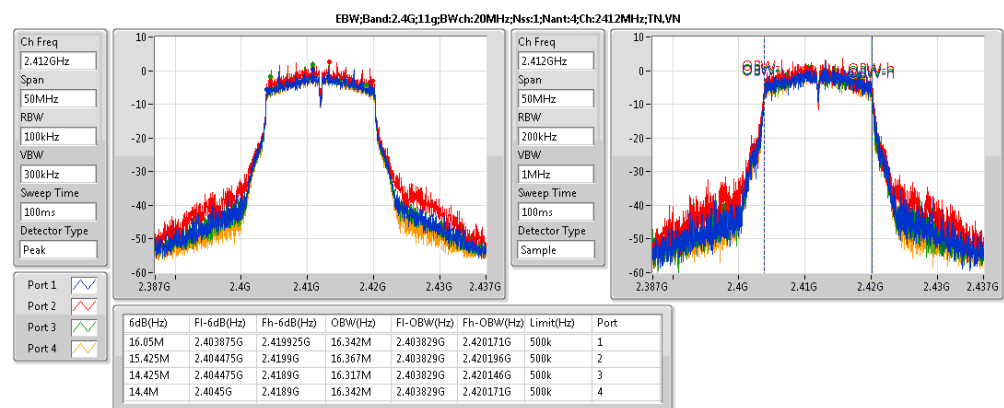
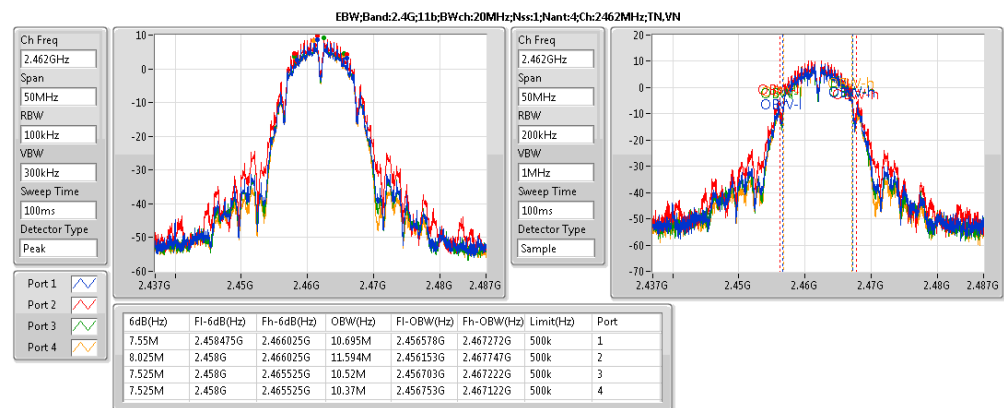
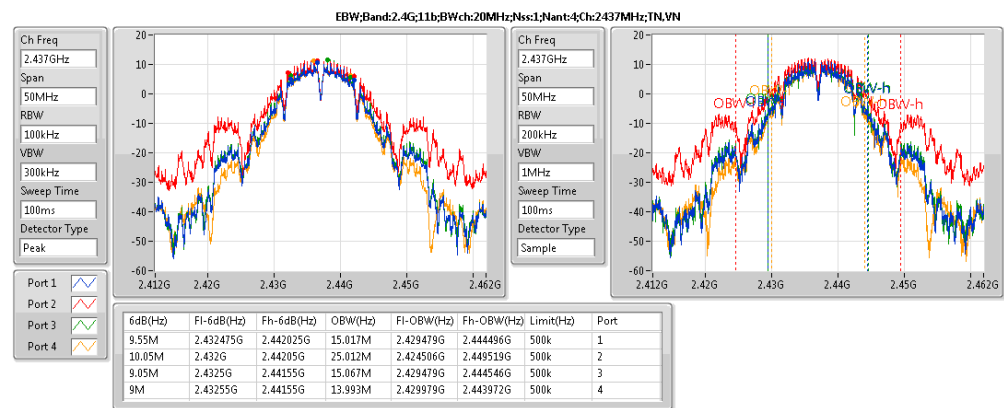
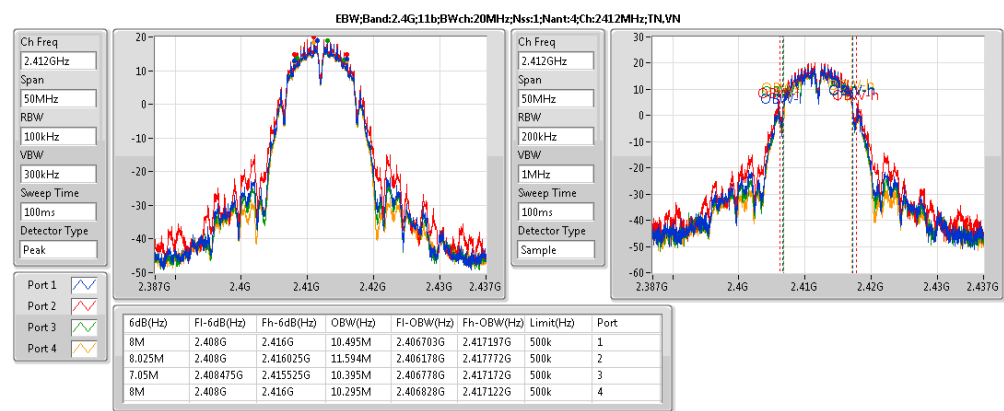
Result

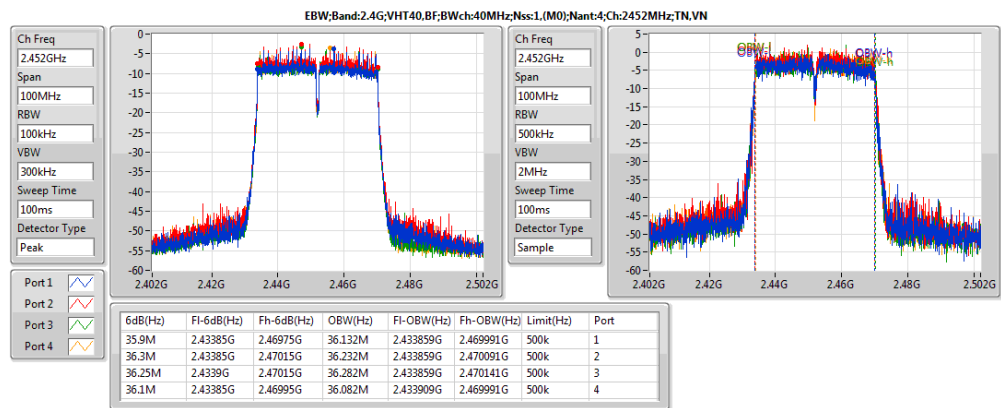
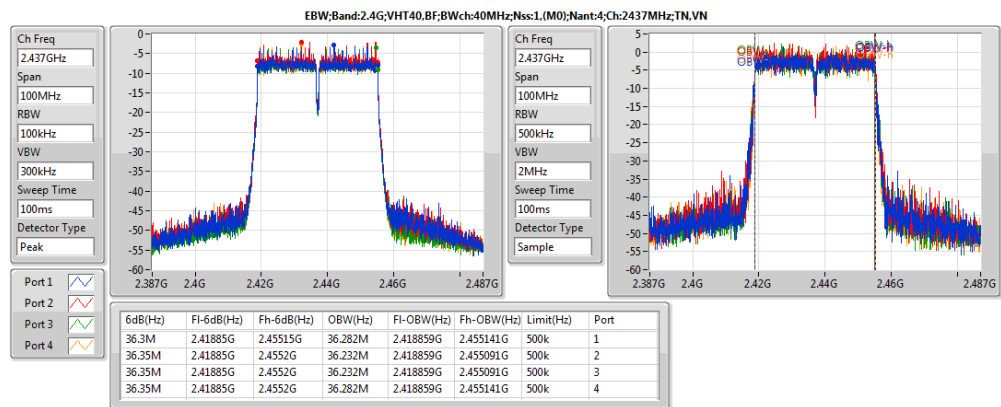
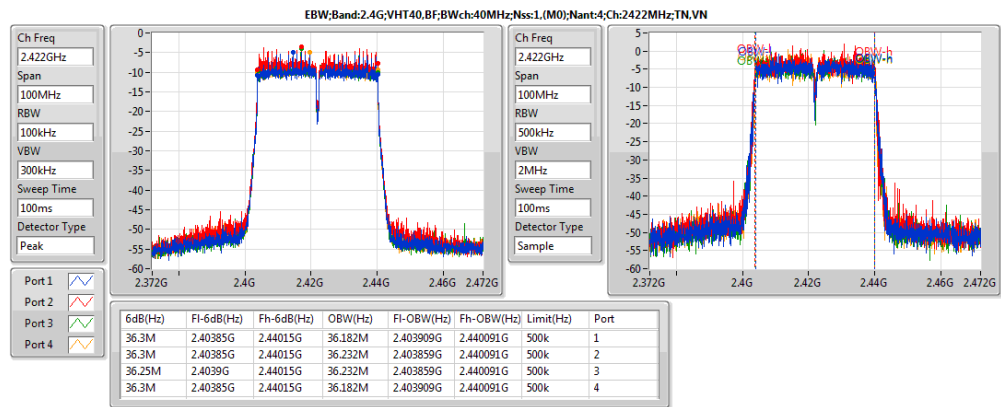
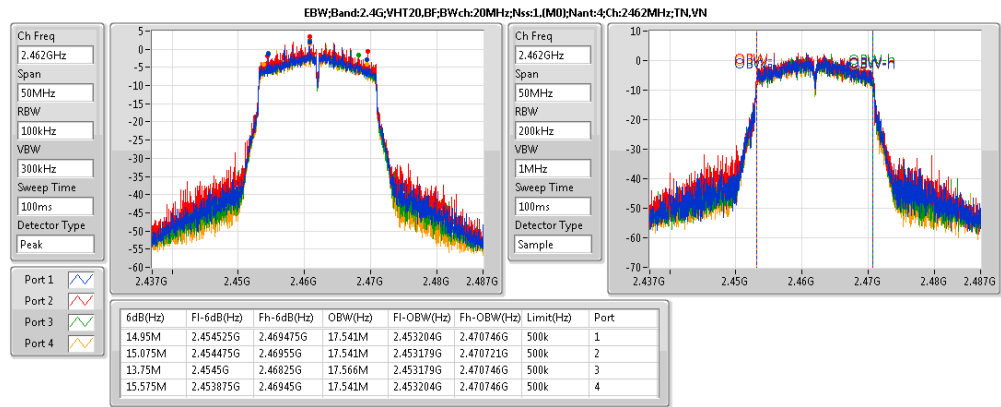
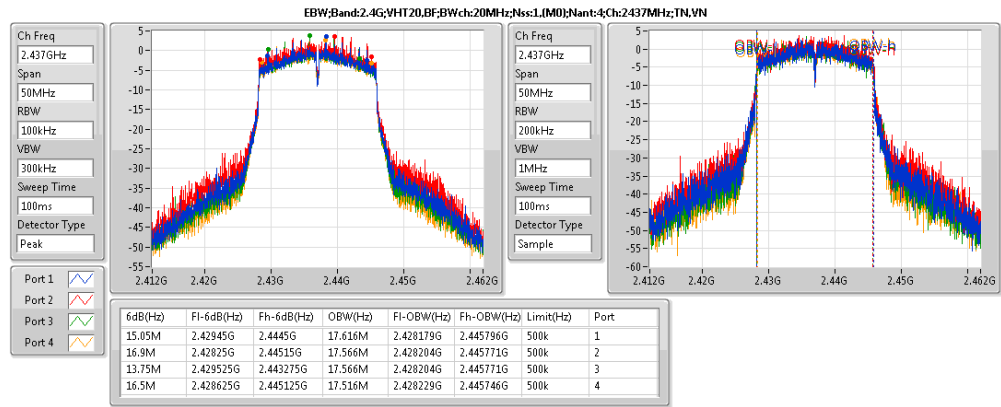
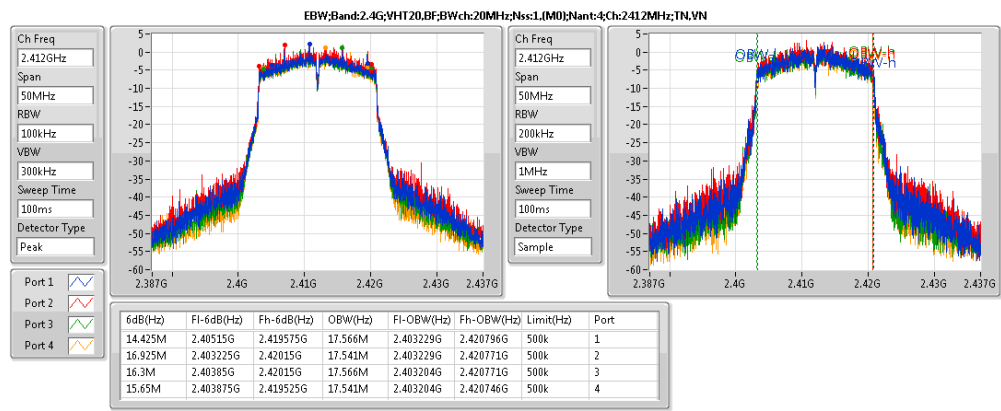
| Mode                              | Result | Limit | P1-N dB<br>(Hz) | P1-OBW<br>(Hz) | P2-N dB<br>(Hz) | P2-OBW<br>(Hz) | P3-N dB<br>(Hz) | P3-OBW<br>(Hz) | P4-N dB<br>(Hz) | P4-OBW<br>(Hz) |
|-----------------------------------|--------|-------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
| 2.4G;11b;Nss1;Ntx4;2412           | Pass   | 500k  | 8M              | 10.495M        | 8.025M          | 11.594M        | 7.05M           | 10.395M        | 8M              | 10.295M        |
| 2.4G;11b;Nss1;Ntx4;2437           | Pass   | 500k  | 9.55M           | 15.017M        | 10.05M          | 25.012M        | 9.05M           | 15.067M        | 9M              | 13.993M        |
| 2.4G;11b;Nss1;Ntx4;2462           | Pass   | 500k  | 7.55M           | 10.695M        | 8.025M          | 11.594M        | 7.525M          | 10.52M         | 7.525M          | 10.37M         |
| 2.4G;11g;Nss1;Ntx4;2412           | Pass   | 500k  | 16.05M          | 16.342M        | 15.425M         | 16.367M        | 14.425M         | 16.317M        | 14.4M           | 16.342M        |
| 2.4G;11g;Nss1;Ntx4;2437           | Pass   | 500k  | 15.675M         | 17.891M        | 16.275M         | 31.109M        | 15.05M          | 18.316M        | 15.05M          | 16.992M        |
| 2.4G;11g;Nss1;Ntx4;2462           | Pass   | 500k  | 16.025M         | 16.392M        | 12.625M         | 16.342M        | 15.05M          | 16.342M        | 15.675M         | 16.342M        |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2412    | Pass   | 500k  | 15M             | 17.566M        | 16.3M           | 17.516M        | 14.975M         | 17.541M        | 15.3M           | 17.566M        |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2437    | Pass   | 500k  | 15.075M         | 18.591M        | 16.25M          | 24.363M        | 15.05M          | 18.316M        | 16.275M         | 18.016M        |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2462    | Pass   | 500k  | 14.1M           | 17.591M        | 15.7M           | 17.566M        | 15.05M          | 17.541M        | 15.9M           | 17.516M        |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2422    | Pass   | 500k  | 36.3M           | 36.182M        | 36.3M           | 36.182M        | 36.3M           | 36.232M        | 36.3M           | 36.232M        |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2437    | Pass   | 500k  | 36.35M          | 36.232M        | 36.35M          | 36.332M        | 36.35M          | 36.332M        | 36.35M          | 36.282M        |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2452    | Pass   | 500k  | 36.3M           | 36.182M        | 35.7M           | 36.182M        | 35.7M           | 36.232M        | 35.95M          | 36.232M        |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412 | Pass   | 500k  | 14.425M         | 17.566M        | 16.925M         | 17.541M        | 16.3M           | 17.566M        | 15.65M          | 17.541M        |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437 | Pass   | 500k  | 15.05M          | 17.616M        | 16.9M           | 17.566M        | 13.75M          | 17.566M        | 16.5M           | 17.516M        |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462 | Pass   | 500k  | 14.95M          | 17.541M        | 15.075M         | 17.541M        | 13.75M          | 17.566M        | 15.575M         | 17.541M        |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422 | Pass   | 500k  | 36.3M           | 36.182M        | 36.3M           | 36.232M        | 36.25M          | 36.232M        | 36.3M           | 36.182M        |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437 | Pass   | 500k  | 36.3M           | 36.282M        | 36.35M          | 36.232M        | 36.35M          | 36.232M        | 36.35M          | 36.282M        |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452 | Pass   | 500k  | 35.9M           | 36.132M        | 36.3M           | 36.232M        | 36.25M          | 36.282M        | 36.1M           | 36.082M        |



Antenna 2 EBW Result

Appendix B







Summary

| Mode                         | Sum<br>(dBm) | Sum<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|------------------------------|--------------|------------|---------------|-------------|
| 2.4G;11b;Nss1;Ntx4           | 27.19        | 0.5236     | 29.19         | 0.82985     |
| 2.4G;11g;Nss1;Ntx4           | 25.70        | 0.37154    | 27.70         | 0.58884     |
| 2.4G;VHT20;Nss1,(M0);Ntx4    | 26.58        | 0.45499    | 28.58         | 0.72111     |
| 2.4G;VHT40;Nss1,(M0);Ntx4    | 21.25        | 0.13335    | 23.25         | 0.21135     |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4 | 26.30        | 0.42658    | 34.32         | 2.70396     |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4 | 21.11        | 0.12912    | 29.13         | 0.81846     |



Result

| Mode                              | Result | DG<br>(dBi) | EIRP<br>(dBm) | EIRP Lim.<br>(dBm) | Sum<br>(dBm) | Sum Lim.<br>(dBm) | P1<br>(dBm) | P2<br>(dBm) | P3<br>(dBm) | P4<br>(dBm) |
|-----------------------------------|--------|-------------|---------------|--------------------|--------------|-------------------|-------------|-------------|-------------|-------------|
| 2.4G;11b;Nss1;Ntx4;2412           | Pass   | 2.00        | 26.99         | 36.00              | 24.99        | 30.00             | 19.02       | 19.47       | 19.12       | 18.16       |
| 2.4G;11b;Nss1;Ntx4;2437           | Pass   | 2.00        | 29.19         | 36.00              | 27.19        | 30.00             | 20.63       | 21.84       | 21.56       | 20.47       |
| 2.4G;11b;Nss1;Ntx4;2462           | Pass   | 2.00        | 26.72         | 36.00              | 24.72        | 30.00             | 18.77       | 19.11       | 18.92       | 17.92       |
| 2.4G;11g;Nss1;Ntx4;2412           | Pass   | 2.00        | 23.57         | 36.00              | 21.57        | 30.00             | 15.61       | 16.21       | 15.85       | 14.31       |
| 2.4G;11g;Nss1;Ntx4;2437           | Pass   | 2.00        | 27.70         | 36.00              | 25.70        | 30.00             | 19.26       | 20.74       | 19.73       | 18.75       |
| 2.4G;11g;Nss1;Ntx4;2462           | Pass   | 2.00        | 24.80         | 36.00              | 22.80        | 30.00             | 16.84       | 17.29       | 17.07       | 15.77       |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2412    | Pass   | 2.00        | 24.48         | 36.00              | 22.48        | 30.00             | 16.54       | 17.14       | 16.39       | 15.64       |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2437    | Pass   | 2.00        | 28.58         | 36.00              | 26.58        | 30.00             | 21.15       | 20.27       | 20.22       | 20.53       |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2462    | Pass   | 2.00        | 24.73         | 36.00              | 22.73        | 30.00             | 16.85       | 17.13       | 17.03       | 15.69       |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2422    | Pass   | 2.00        | 21.94         | 36.00              | 19.94        | 30.00             | 13.78       | 14.71       | 14.15       | 12.83       |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2437    | Pass   | 2.00        | 23.25         | 36.00              | 21.25        | 30.00             | 15.55       | 15.87       | 15.19       | 14.12       |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2452    | Pass   | 2.00        | 22.11         | 36.00              | 20.11        | 30.00             | 14.11       | 14.65       | 14.23       | 13.25       |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412 | Pass   | 8.02        | 28.72         | 36.00              | 20.70        | 27.98             | 15.02       | 14.67       | 14.43       | 14.56       |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437 | Pass   | 8.02        | 34.32         | 36.00              | 26.30        | 27.98             | 20.91       | 19.84       | 20.27       | 20          |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462 | Pass   | 8.02        | 29.55         | 36.00              | 21.53        | 27.98             | 15.82       | 15.57       | 15.11       | 15.5        |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422 | Pass   | 8.02        | 26.88         | 36.00              | 18.86        | 27.98             | 13.08       | 12.99       | 12.24       | 13.01       |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437 | Pass   | 8.02        | 29.13         | 36.00              | 21.11        | 27.98             | 15.36       | 15          | 14.71       | 15.24       |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452 | Pass   | 8.02        | 27.38         | 36.00              | 19.36        | 27.98             | 13.72       | 13.37       | 12.68       | 13.52       |



Summary

| Mode                         | Sum<br>(dBm) | Sum<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|------------------------------|--------------|------------|---------------|-------------|
| 2.4G;11b;Nss1;Ntx4           | 27.19        | 0.5236     | 35.79         | 3.79315     |
| 2.4G;11g;Nss1;Ntx4           | 25.96        | 0.39446    | 34.56         | 2.85759     |
| 2.4G;VHT20;Nss1,(M0);Ntx4    | 26.58        | 0.45499    | 35.18         | 3.2961      |
| 2.4G;VHT40;Nss1,(M0);Ntx4    | 19.85        | 0.09661    | 28.45         | 0.69984     |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4 | 21.30        | 0.1349     | 35.92         | 3.90841     |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4 | 19.36        | 0.0863     | 33.98         | 2.50035     |



Result

| Mode                              | Result | DG<br>(dBi) | EIRP<br>(dBm) | EIRP Lim.<br>(dBm) | Sum<br>(dBm) | Sum Lim.<br>(dBm) | P1<br>(dBm) | P2<br>(dBm) | P3<br>(dBm) | P4<br>(dBm) |
|-----------------------------------|--------|-------------|---------------|--------------------|--------------|-------------------|-------------|-------------|-------------|-------------|
| 2.4G;11b;Nss1;Ntx4;2412           | Pass   | 8.60        | 32.48         | 36.00              | 23.88        | 27.40             | 17.74       | 18.67       | 18.06       | 16.73       |
| 2.4G;11b;Nss1;Ntx4;2437           | Pass   | 8.60        | 35.79         | 36.00              | 27.19        | 27.40             | 20.63       | 21.84       | 21.56       | 20.47       |
| 2.4G;11b;Nss1;Ntx4;2462           | Pass   | 8.60        | 32.82         | 36.00              | 24.22        | 27.40             | 18.25       | 18.57       | 18.65       | 17.19       |
| 2.4G;11g;Nss1;Ntx4;2412           | Pass   | 8.60        | 28.39         | 36.00              | 19.79        | 27.40             | 13.53       | 14.46       | 14.17       | 12.70       |
| 2.4G;11g;Nss1;Ntx4;2437           | Pass   | 8.60        | 34.56         | 36.00              | 25.96        | 27.40             | 19.35       | 21.1        | 19.88       | 19.13       |
| 2.4G;11g;Nss1;Ntx4;2462           | Pass   | 8.60        | 29.22         | 36.00              | 20.62        | 27.40             | 14.63       | 15.41       | 14.66       | 13.47       |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2412    | Pass   | 8.60        | 29.18         | 36.00              | 20.58        | 27.40             | 14.71       | 15.42       | 14.46       | 13.44       |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2437    | Pass   | 8.60        | 35.18         | 36.00              | 26.58        | 27.40             | 21.15       | 20.27       | 20.22       | 20.53       |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2462    | Pass   | 8.60        | 29.30         | 36.00              | 20.70        | 27.40             | 14.9        | 15.38       | 14.62       | 13.62       |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2422    | Pass   | 8.60        | 26.44         | 36.00              | 17.84        | 27.40             | 11.94       | 12.56       | 11.73       | 10.87       |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2437    | Pass   | 8.60        | 28.45         | 36.00              | 19.85        | 27.40             | 14.11       | 14.56       | 13.71       | 12.75       |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2452    | Pass   | 8.60        | 27.42         | 36.00              | 18.82        | 27.40             | 12.64       | 13.62       | 12.88       | 11.87       |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412 | Pass   | 14.62       | 34.82         | 36.00              | 20.20        | 21.38             | 14.52       | 14.17       | 13.93       | 14.06       |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437 | Pass   | 14.62       | 35.92         | 36.00              | 21.30        | 21.38             | 15.91       | 14.84       | 15.27       | 15.00       |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462 | Pass   | 14.62       | 34.65         | 36.00              | 20.03        | 21.38             | 14.32       | 14.07       | 13.61       | 14.00       |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422 | Pass   | 14.62       | 31.98         | 36.00              | 17.36        | 21.38             | 11.58       | 11.49       | 10.74       | 11.51       |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437 | Pass   | 14.62       | 33.98         | 36.00              | 19.36        | 21.38             | 13.61       | 13.25       | 12.96       | 13.49       |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452 | Pass   | 14.62       | 32.98         | 36.00              | 18.36        | 21.38             | 12.72       | 12.37       | 11.68       | 12.52       |



Summary

| Mode                         | PD<br>(dBm/RBW) | EIRP.PD<br>(dBm/RBW) |
|------------------------------|-----------------|----------------------|
| 2.4G;11b;Nss1;Ntx4           | 1.13            | 9.15                 |
| 2.4G;11g;Nss1;Ntx4           | -1.20           | 6.82                 |
| 2.4G;VHT20;Nss1,(M0);Ntx4    | -2.57           | 5.46                 |
| 2.4G;VHT40;Nss1,(M0);Ntx4    | 2.61            | 10.63                |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4 | -2.16           | 5.86                 |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4 | 2.03            | 10.05                |



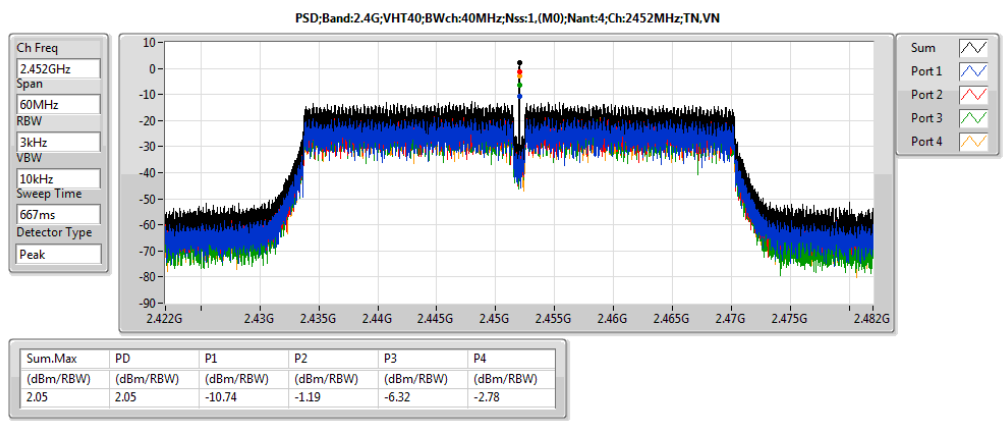
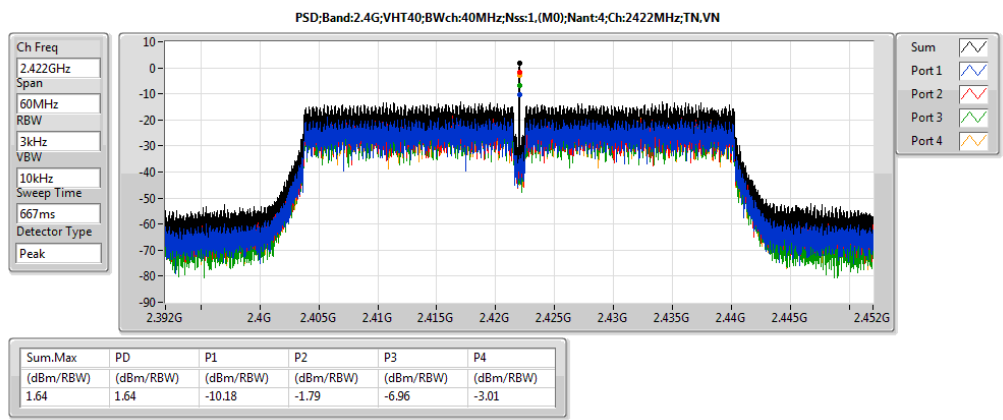
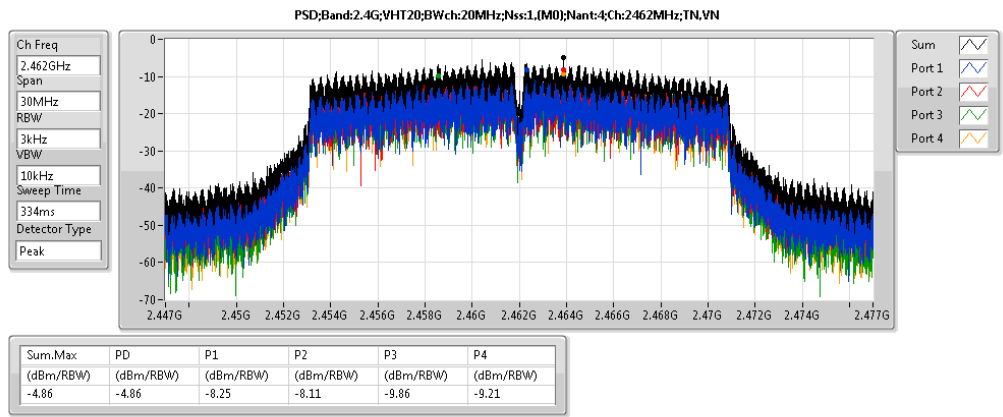
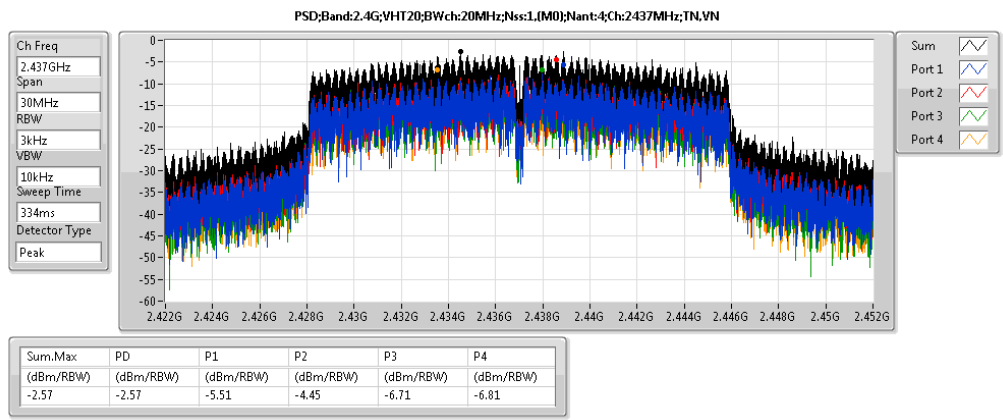
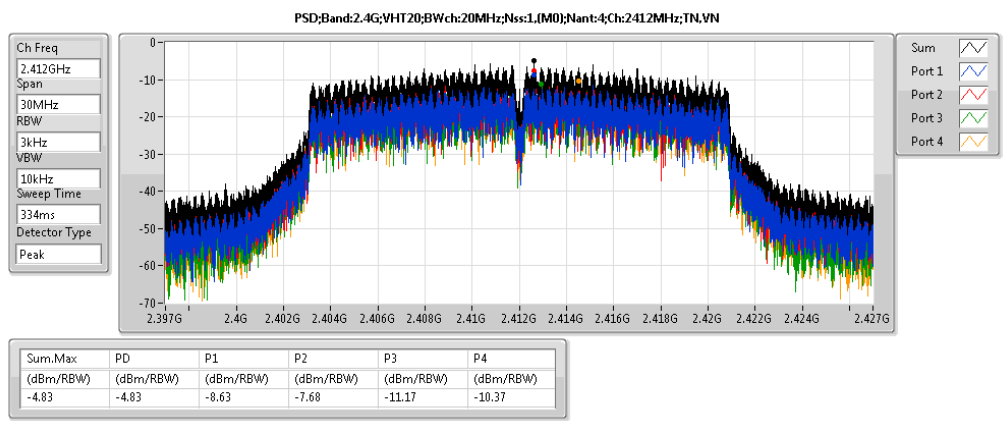
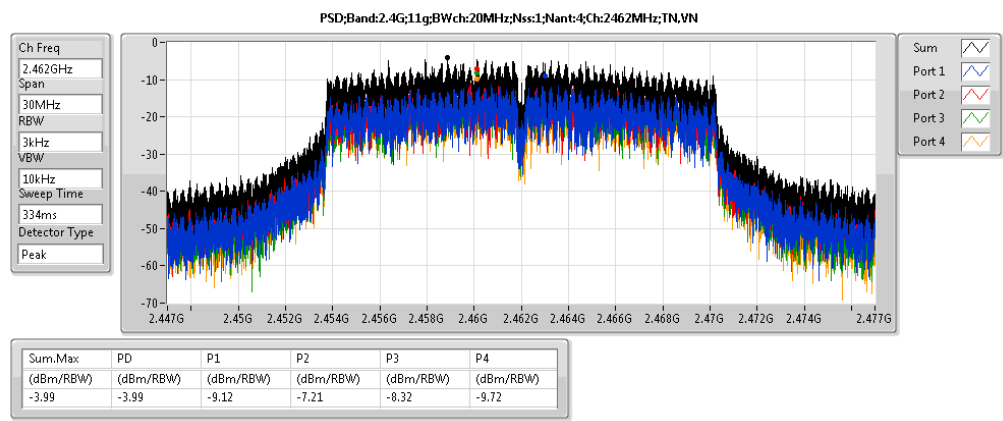
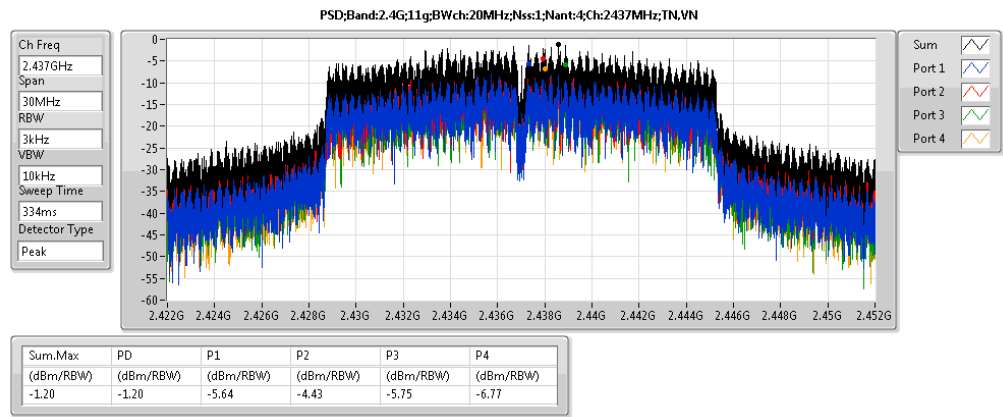
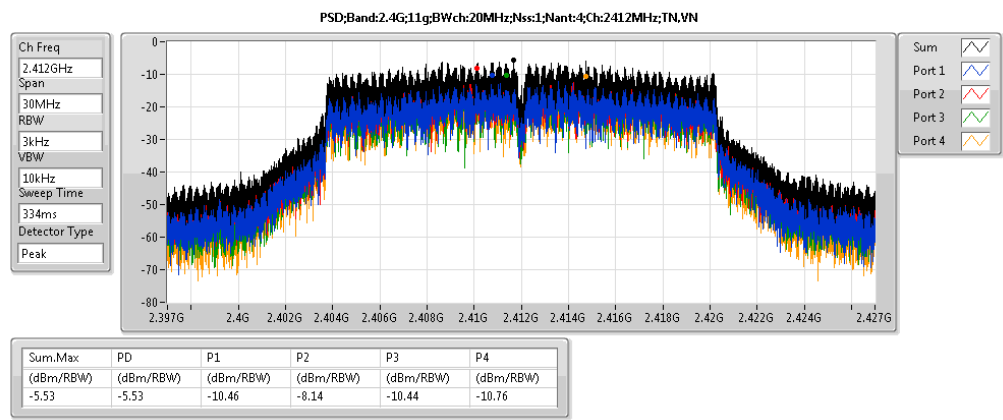
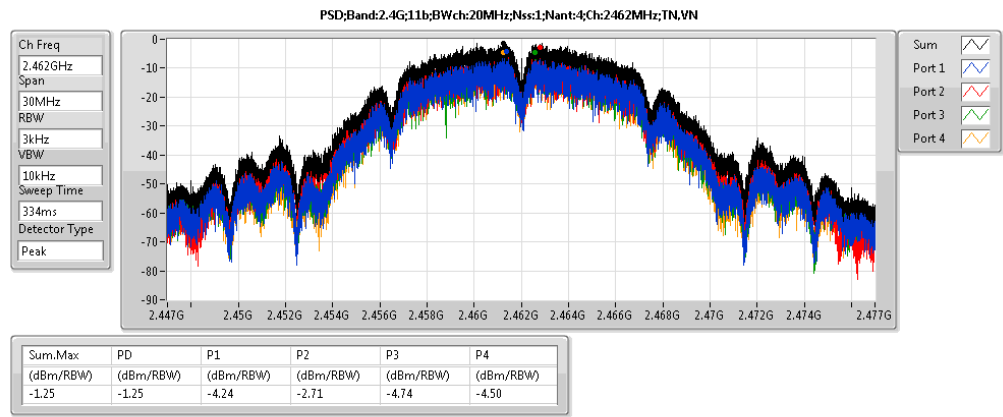
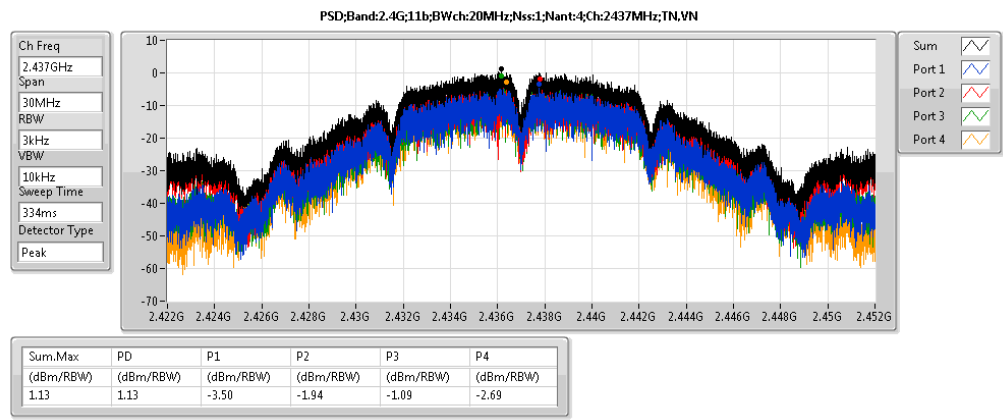
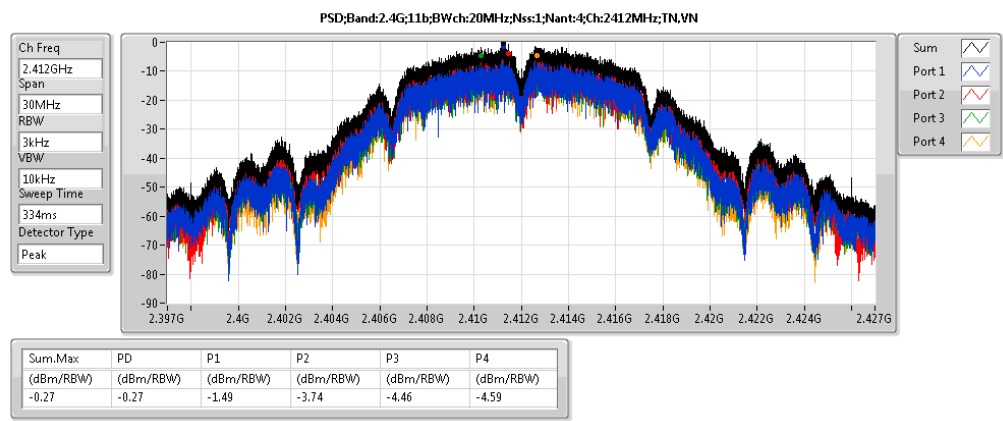
Result

| Mode                              | Result | Meas.RBW<br>(Hz) | Lim.RBW<br>(Hz) | BWCF<br>(dB) | DG<br>(dBi) | Sum.Max<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD.Limit<br>(dBm/RBW) | EIRP.PD<br>(dBm/RBW) | EIRP.PD.Li<br>m<br>(dBm/RBW) | P1<br>(dBm/RBW) | P2<br>(dBm/RBW) | P3<br>(dBm/RBW) | P4<br>(dBm/RBW) |
|-----------------------------------|--------|------------------|-----------------|--------------|-------------|----------------------|-----------------|-----------------------|----------------------|------------------------------|-----------------|-----------------|-----------------|-----------------|
| 2.4G;11b;Nss1;Ntx4;2412           | Pass   | 3k               | 3k              | 0.00         | 8.02        | -0.27                | -0.27           | 5.98                  | 7.76                 | Inf                          | -1.49           | -3.74           | -4.46           | -4.59           |
| 2.4G;11b;Nss1;Ntx4;2437           | Pass   | 3k               | 3k              | 0.00         | 8.02        | 1.13                 | 1.13            | 5.98                  | 9.15                 | Inf                          | -3.50           | -1.94           | -1.09           | -2.69           |
| 2.4G;11b;Nss1;Ntx4;2462           | Pass   | 3k               | 3k              | 0.00         | 8.02        | -1.25                | -1.25           | 5.98                  | 6.77                 | Inf                          | -4.24           | -2.71           | -4.74           | -4.50           |
| 2.4G;11g;Nss1;Ntx4;2412           | Pass   | 3k               | 3k              | 0.00         | 8.02        | -5.53                | -5.53           | 5.98                  | 2.49                 | Inf                          | -10.46          | -8.14           | -10.44          | -10.76          |
| 2.4G;11g;Nss1;Ntx4;2437           | Pass   | 3k               | 3k              | 0.00         | 8.02        | -1.20                | -1.20           | 5.98                  | 6.82                 | Inf                          | -5.64           | -4.43           | -5.75           | -6.77           |
| 2.4G;11g;Nss1;Ntx4;2462           | Pass   | 3k               | 3k              | 0.00         | 8.02        | -3.99                | -3.99           | 5.98                  | 4.03                 | Inf                          | -9.12           | -7.21           | -8.32           | -9.72           |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2412    | Pass   | 3k               | 3k              | 0.00         | 8.02        | -4.83                | -4.83           | 5.98                  | 3.19                 | Inf                          | -8.63           | -7.68           | -11.17          | -10.37          |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2437    | Pass   | 3k               | 3k              | 0.00         | 8.02        | -2.57                | -2.57           | 5.98                  | 5.46                 | Inf                          | -5.51           | -4.45           | -6.71           | -6.81           |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2462    | Pass   | 3k               | 3k              | 0.00         | 8.02        | -4.86                | -4.86           | 5.98                  | 3.16                 | Inf                          | -8.25           | -8.11           | -9.86           | -9.21           |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2422    | Pass   | 3k               | 3k              | 0.00         | 8.02        | 1.64                 | 1.64            | 5.98                  | 9.66                 | Inf                          | -10.18          | -1.79           | -6.96           | -3.01           |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2437    | Pass   | 3k               | 3k              | 0.00         | 8.02        | 2.61                 | 2.61            | 5.98                  | 10.63                | Inf                          | -10.73          | -0.82           | -4.96           | -2.28           |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2452    | Pass   | 3k               | 3k              | 0.00         | 8.02        | 2.05                 | 2.05            | 5.98                  | 10.07                | Inf                          | -10.74          | -1.19           | -6.32           | -2.78           |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412 | Pass   | 3k               | 3k              | 0.00         | 8.02        | -7.62                | -7.62           | 5.98                  | 0.40                 | Inf                          | -11.07          | -9.53           | -10.89          | -11.22          |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437 | Pass   | 3k               | 3k              | 0.00         | 8.02        | -2.16                | -2.16           | 5.98                  | 5.86                 | Inf                          | -6.28           | -4.73           | -6.63           | -5.89           |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462 | Pass   | 3k               | 3k              | 0.00         | 8.02        | -6.90                | -6.90           | 5.98                  | 1.13                 | Inf                          | -11.00          | -9.79           | -10.64          | -10.43          |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422 | Pass   | 3k               | 3k              | 0.00         | 8.02        | 0.16                 | 0.16            | 5.98                  | 8.18                 | Inf                          | -11.58          | -3.35           | -7.15           | -5.05           |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437 | Pass   | 3k               | 3k              | 0.00         | 8.02        | 2.03                 | 2.03            | 5.98                  | 10.05                | Inf                          | -10.96          | -1.22           | -6.82           | -2.57           |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452 | Pass   | 3k               | 3k              | 0.00         | 8.02        | 1.96                 | 1.96            | 5.98                  | 9.98                 | Inf                          | -11.36          | -1.17           | -6.36           | -3.00           |



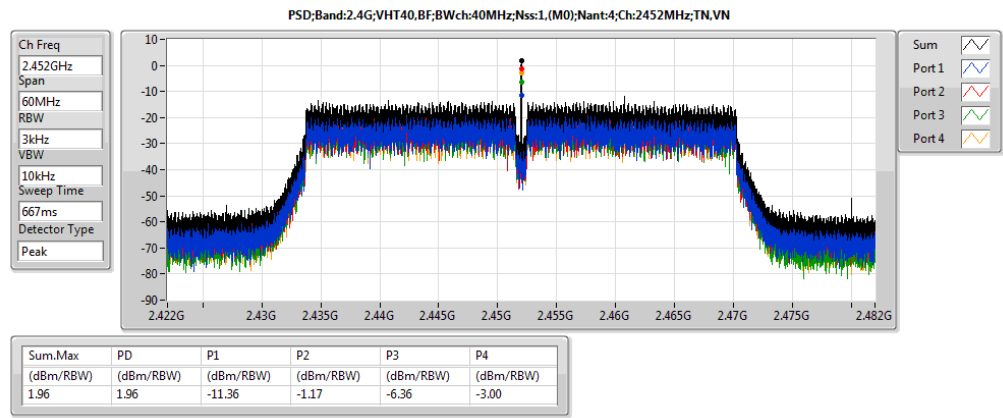
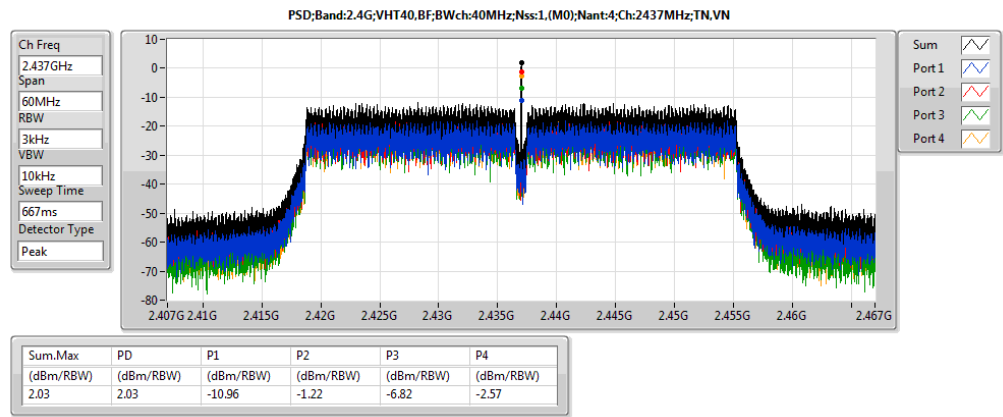
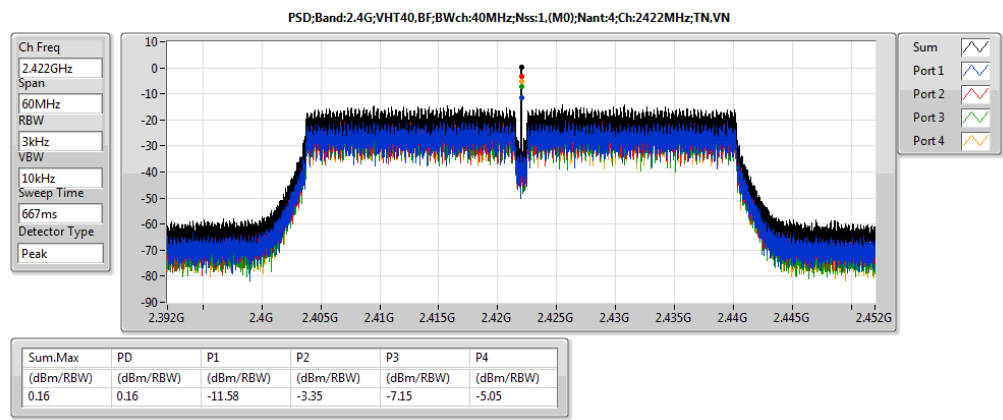
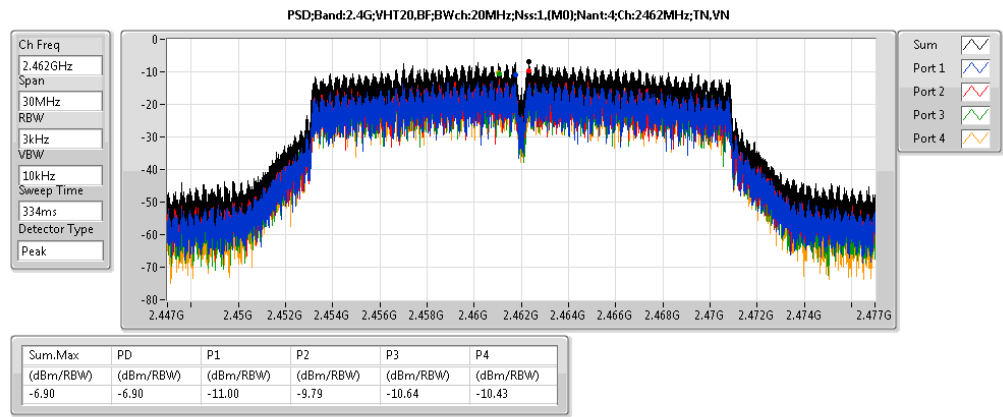
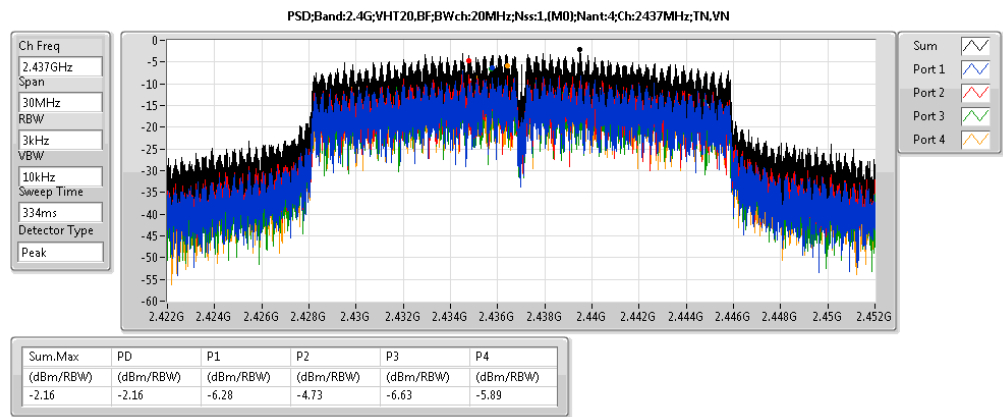
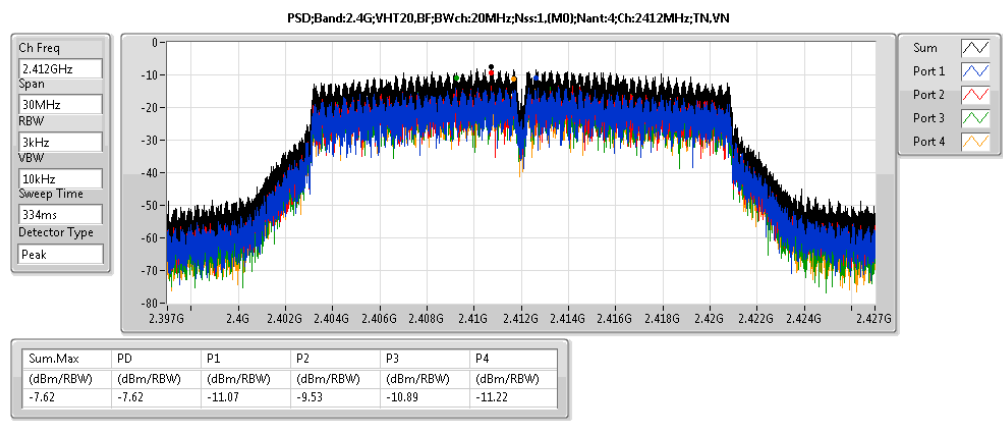
Antenna 1 PSD Result

Appendix D





Antenna 1 PSD Result





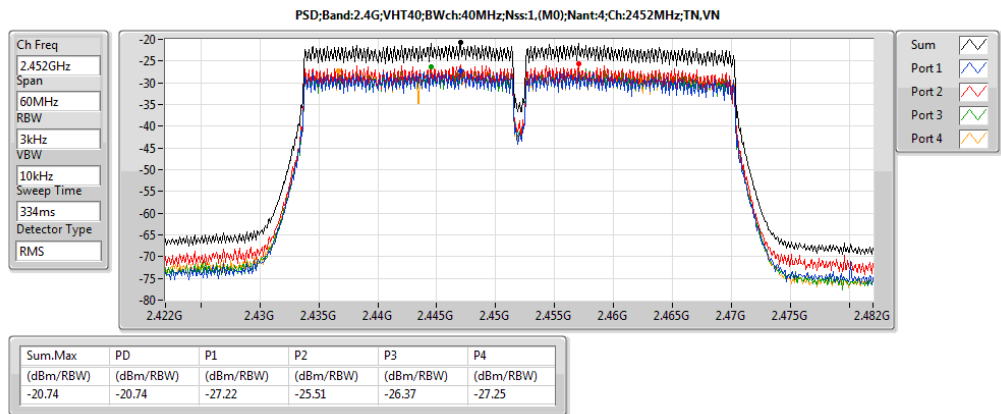
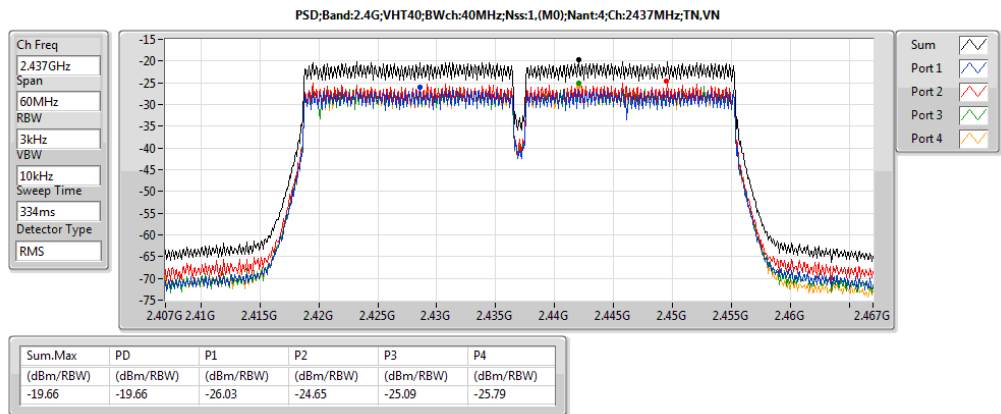
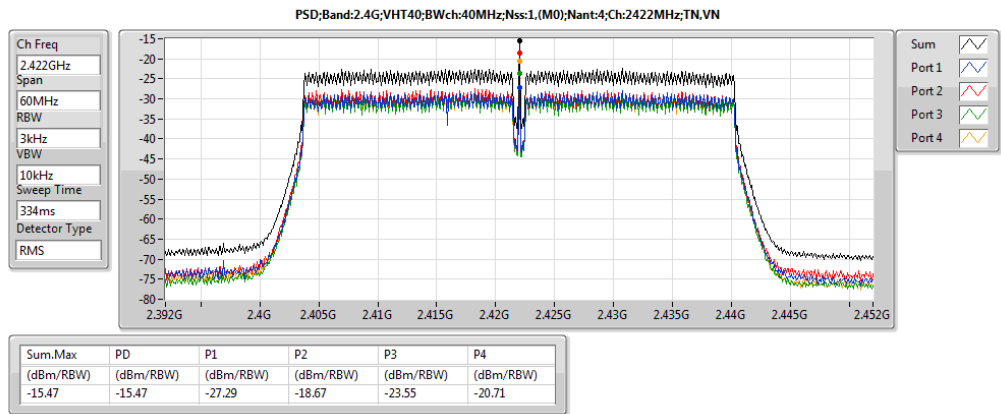
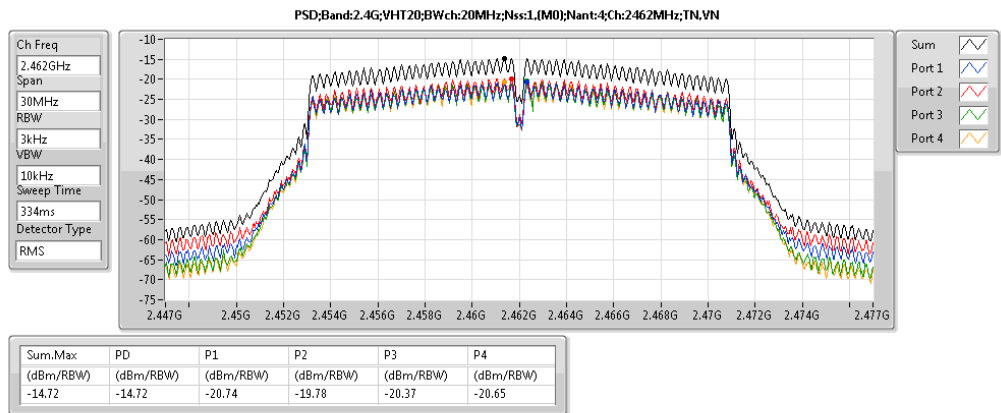
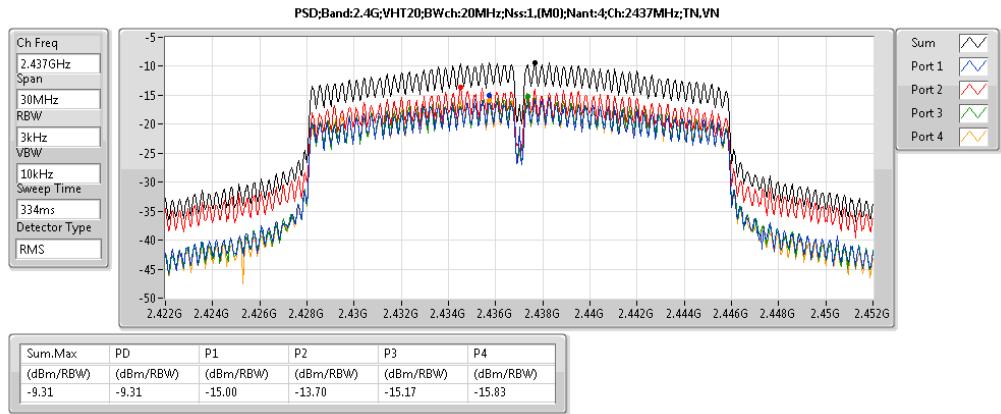
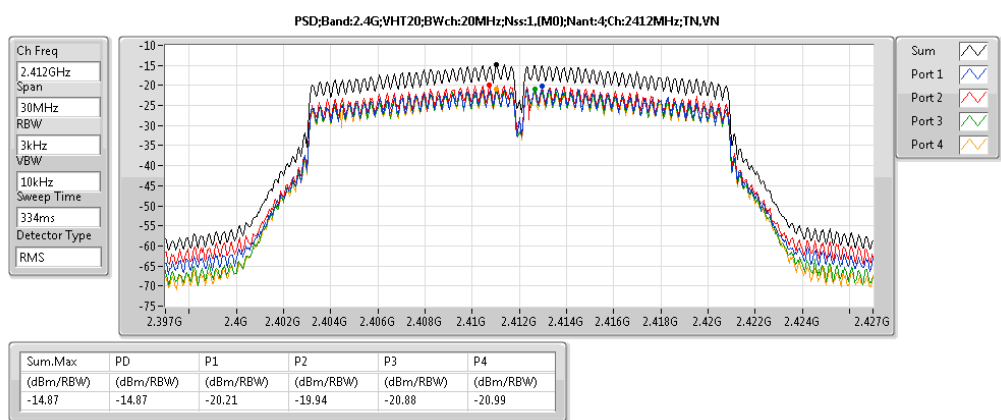
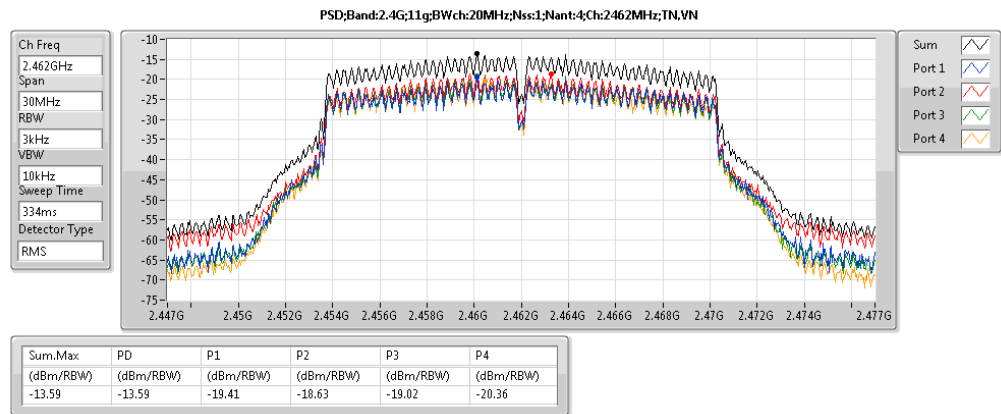
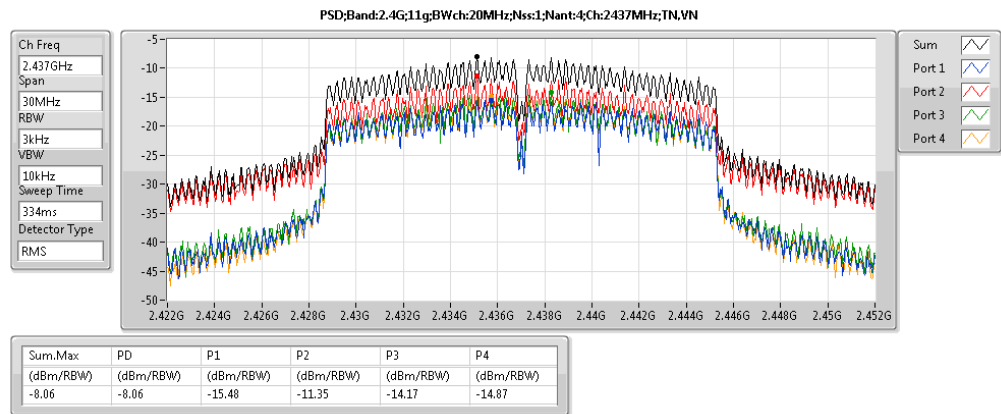
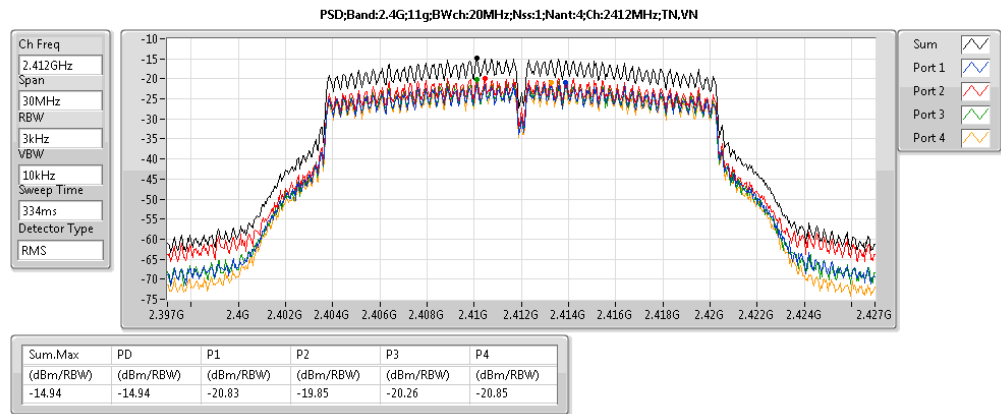
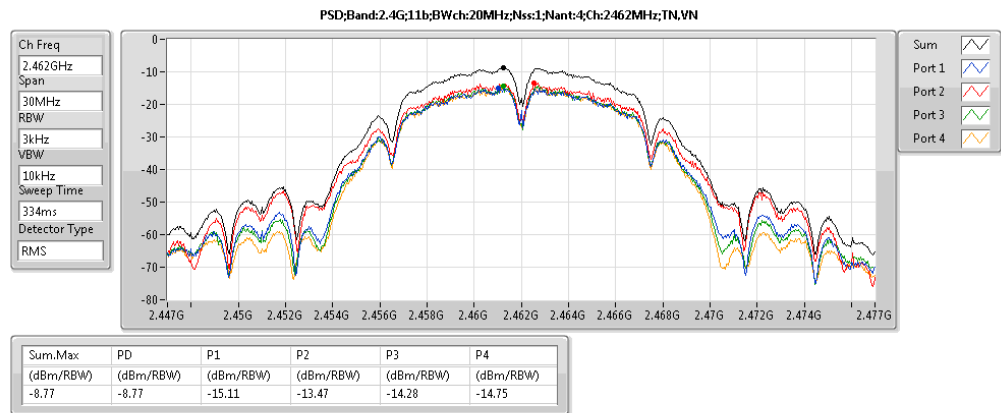
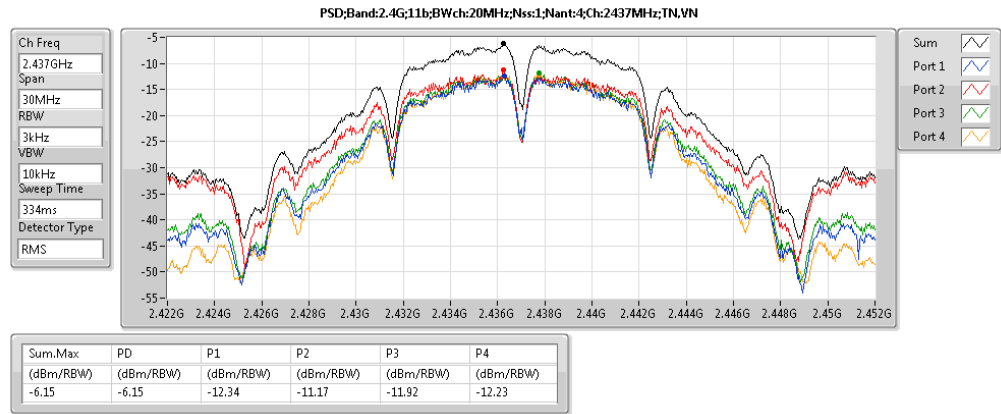
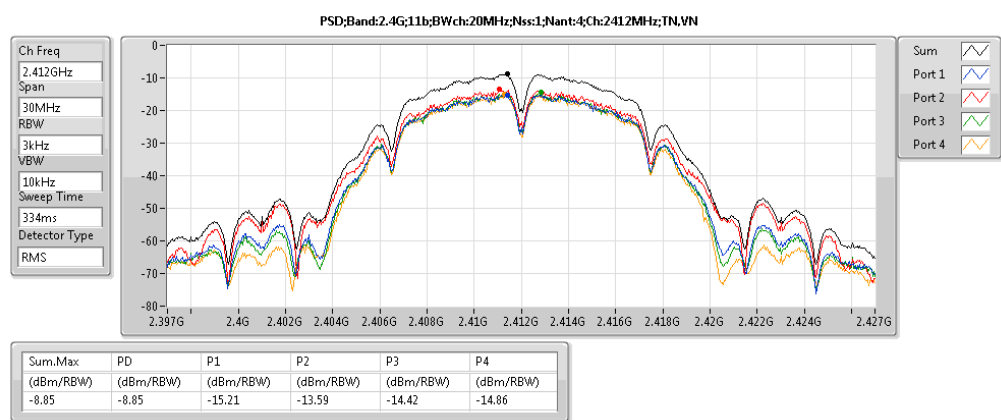
Summary

| Mode                         | PD<br>(dBm/RBW) | EIRP.PD<br>(dBm/RBW) |
|------------------------------|-----------------|----------------------|
| 2.4G;11b;Nss1;Ntx4           | -6.15           | 8.47                 |
| 2.4G;11g;Nss1;Ntx4           | -8.06           | 6.56                 |
| 2.4G;VHT20;Nss1,(M0);Ntx4    | -9.31           | 5.31                 |
| 2.4G;VHT40;Nss1,(M0);Ntx4    | -15.47          | -0.85                |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4 | -14.12          | 0.50                 |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4 | -21.01          | -6.39                |



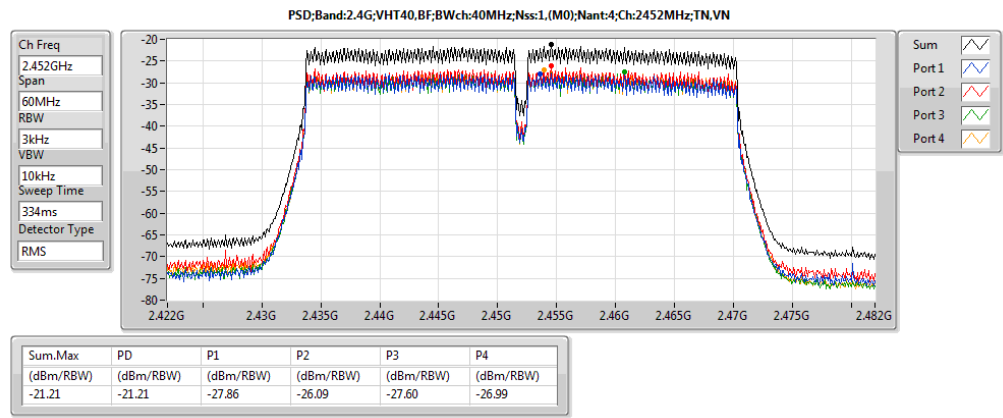
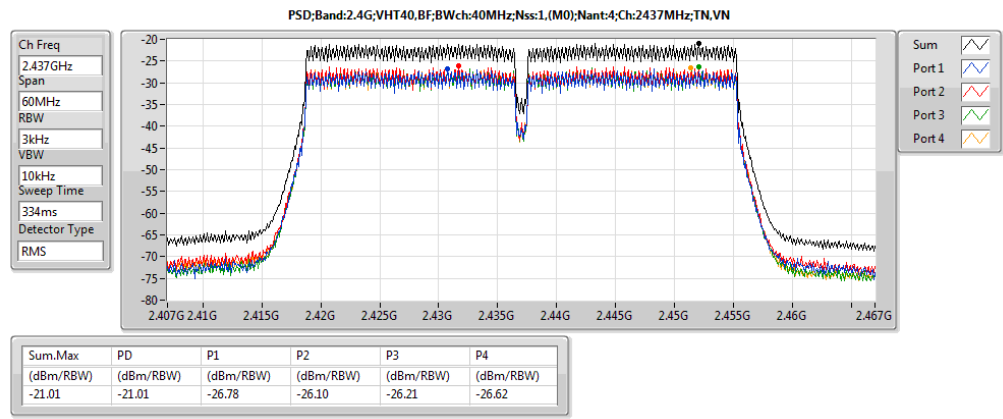
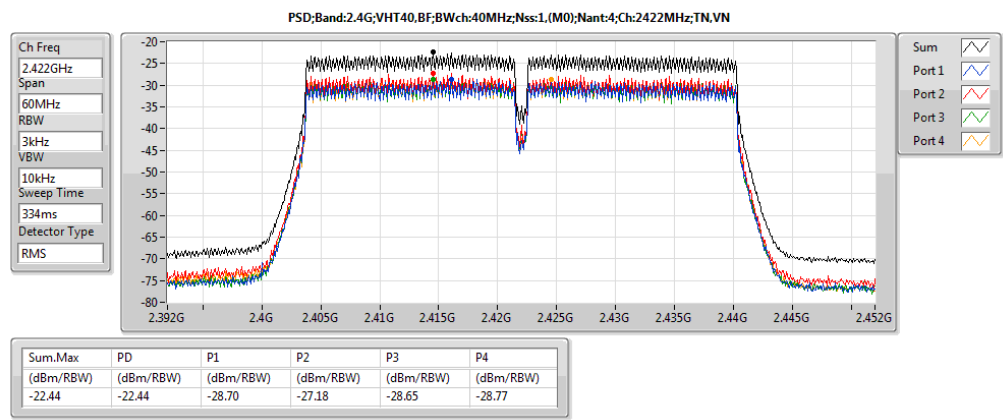
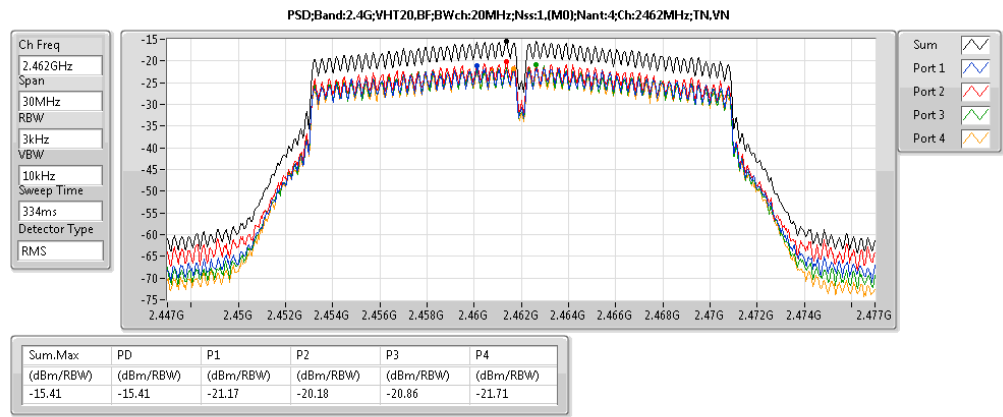
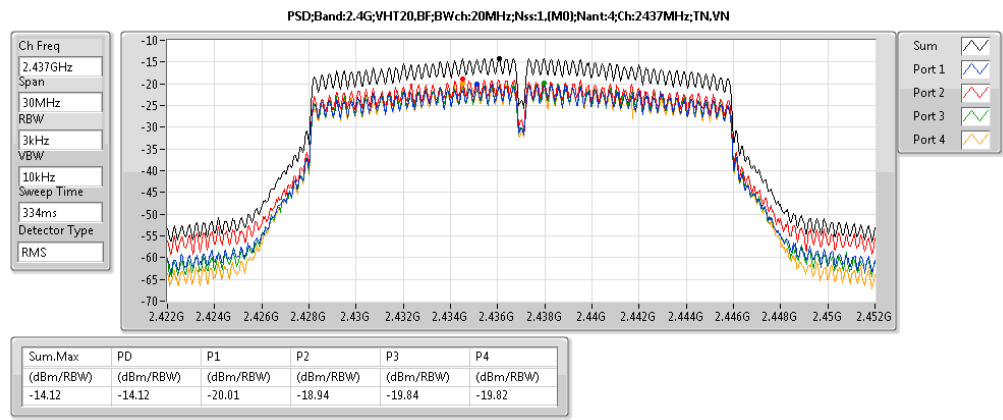
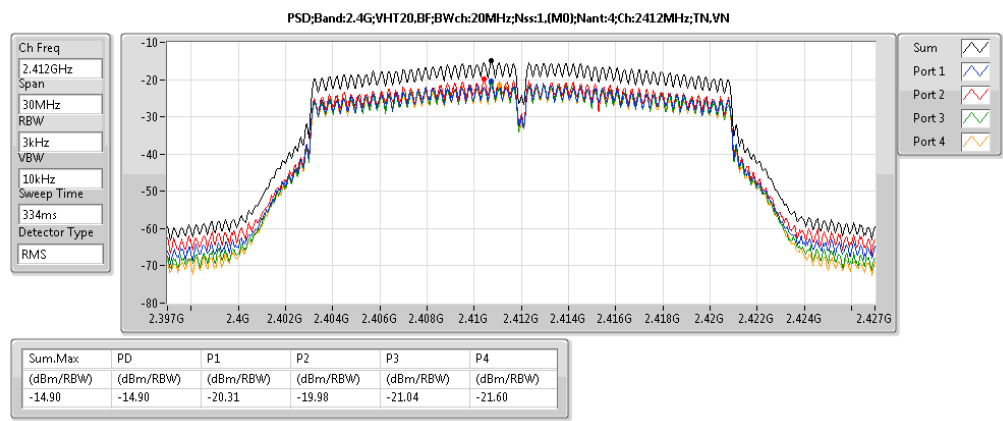
Result

| Mode                              | Result | Meas.RBW<br>(Hz) | Lim.RBW<br>(Hz) | BWCF<br>(dB) | DG<br>(dBi) | Sum.Max<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD.Limit<br>(dBm/RBW) | EIRP.PD<br>(dBm/RBW) | EIRP.PD.Li<br>m<br>(dBm/RBW) | P1<br>(dBm/RBW) | P2<br>(dBm/RBW) | P3<br>(dBm/RBW) | P4<br>(dBm/RBW) |
|-----------------------------------|--------|------------------|-----------------|--------------|-------------|----------------------|-----------------|-----------------------|----------------------|------------------------------|-----------------|-----------------|-----------------|-----------------|
| 2.4G;11b;Nss1;Ntx4;2412           | Pass   | 3k               | 3k              | 0.00         | 14.62       | -8.85                | -8.85           | -0.62                 | 5.77                 | Inf                          | -15.21          | -13.59          | -14.42          | -14.86          |
| 2.4G;11b;Nss1;Ntx4;2437           | Pass   | 3k               | 3k              | 0.00         | 14.62       | -6.15                | -6.15           | -0.62                 | 8.47                 | Inf                          | -12.34          | -11.17          | -11.92          | -12.23          |
| 2.4G;11b;Nss1;Ntx4;2462           | Pass   | 3k               | 3k              | 0.00         | 14.62       | -8.77                | -8.77           | -0.62                 | 5.85                 | Inf                          | -15.11          | -13.47          | -14.28          | -14.75          |
| 2.4G;11g;Nss1;Ntx4;2412           | Pass   | 3k               | 3k              | 0.00         | 14.62       | -14.94               | -14.94          | -0.62                 | -0.32                | Inf                          | -20.83          | -19.85          | -20.26          | -20.85          |
| 2.4G;11g;Nss1;Ntx4;2437           | Pass   | 3k               | 3k              | 0.00         | 14.62       | -8.06                | -8.06           | -0.62                 | 6.56                 | Inf                          | -15.48          | -11.35          | -14.17          | -14.87          |
| 2.4G;11g;Nss1;Ntx4;2462           | Pass   | 3k               | 3k              | 0.00         | 14.62       | -13.59               | -13.59          | -0.62                 | 1.03                 | Inf                          | -19.41          | -18.63          | -19.02          | -20.36          |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2412    | Pass   | 3k               | 3k              | 0.00         | 14.62       | -14.87               | -14.87          | -0.62                 | -0.25                | Inf                          | -20.21          | -19.94          | -20.88          | -20.99          |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2437    | Pass   | 3k               | 3k              | 0.00         | 14.62       | -9.31                | -9.31           | -0.62                 | 5.31                 | Inf                          | -15.00          | -13.70          | -15.17          | -15.83          |
| 2.4G;VHT20;Nss1,(M0);Ntx4;2462    | Pass   | 3k               | 3k              | 0.00         | 14.62       | -14.72               | -14.72          | -0.62                 | -0.10                | Inf                          | -20.74          | -19.78          | -20.37          | -20.65          |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2422    | Pass   | 3k               | 3k              | 0.00         | 14.62       | -15.47               | -15.47          | -0.62                 | -0.85                | Inf                          | -27.29          | -18.67          | -23.55          | -20.71          |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2437    | Pass   | 3k               | 3k              | 0.00         | 14.62       | -19.66               | -19.66          | -0.62                 | -5.04                | Inf                          | -26.03          | -24.65          | -25.09          | -25.79          |
| 2.4G;VHT40;Nss1,(M0);Ntx4;2452    | Pass   | 3k               | 3k              | 0.00         | 14.62       | -20.74               | -20.74          | -0.62                 | -6.12                | Inf                          | -27.22          | -25.51          | -26.37          | -27.25          |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412 | Pass   | 3k               | 3k              | 0.00         | 14.62       | -14.90               | -14.90          | -0.62                 | -0.28                | Inf                          | -20.31          | -19.98          | -21.04          | -21.60          |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437 | Pass   | 3k               | 3k              | 0.00         | 14.62       | -14.12               | -14.12          | -0.62                 | 0.50                 | Inf                          | -20.01          | -18.94          | -19.84          | -19.82          |
| 2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462 | Pass   | 3k               | 3k              | 0.00         | 14.62       | -15.41               | -15.41          | -0.62                 | -0.79                | Inf                          | -21.17          | -20.18          | -20.86          | -21.71          |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422 | Pass   | 3k               | 3k              | 0.00         | 14.62       | -22.44               | -22.44          | -0.62                 | -7.82                | Inf                          | -28.70          | -27.18          | -28.65          | -28.77          |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437 | Pass   | 3k               | 3k              | 0.00         | 14.62       | -21.01               | -21.01          | -0.62                 | -6.39                | Inf                          | -26.78          | -26.10          | -26.21          | -26.62          |
| 2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452 | Pass   | 3k               | 3k              | 0.00         | 14.62       | -21.21               | -21.21          | -0.62                 | -6.59                | Inf                          | -27.86          | -26.09          | -27.60          | -26.99          |

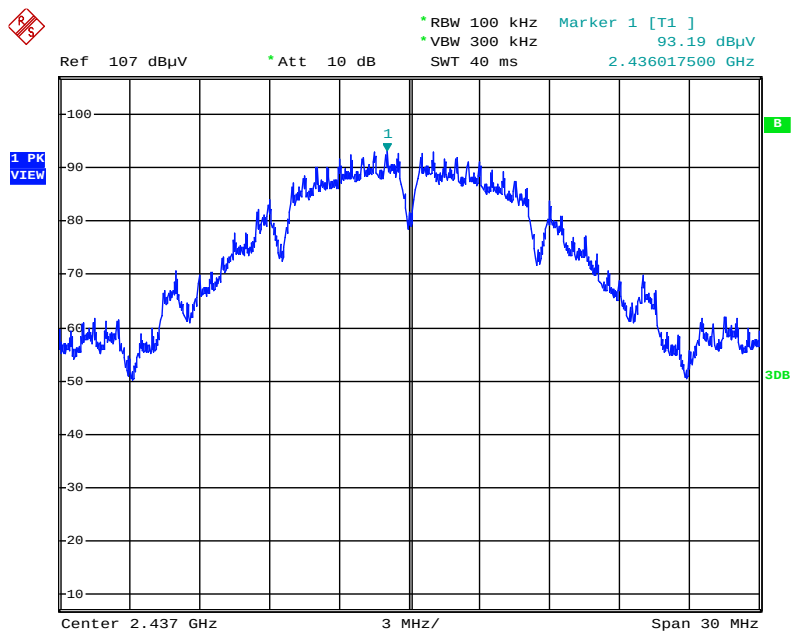




Antenna 2 PSD Result

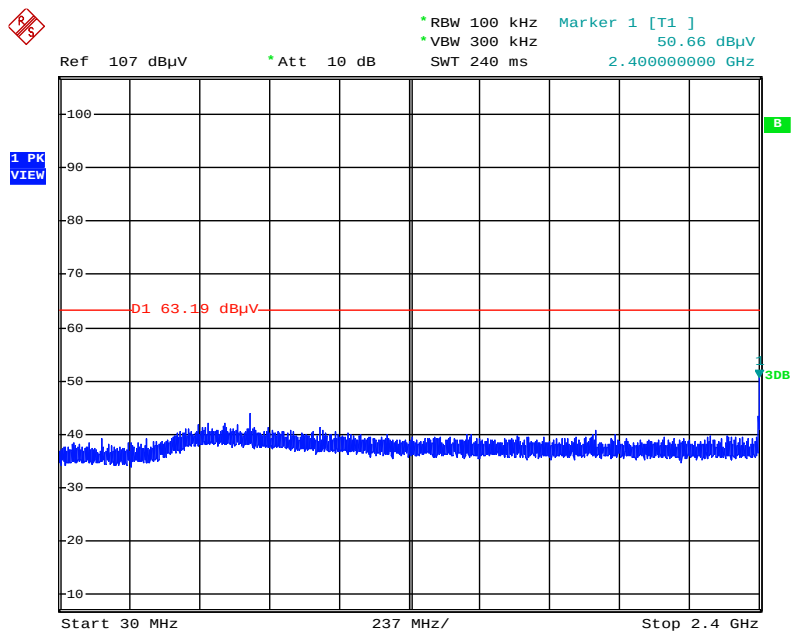


For Antenna 1  
<For Non-Beamforming Mode>  
Plot on Configuration IEEE 802.11b / Reference Level



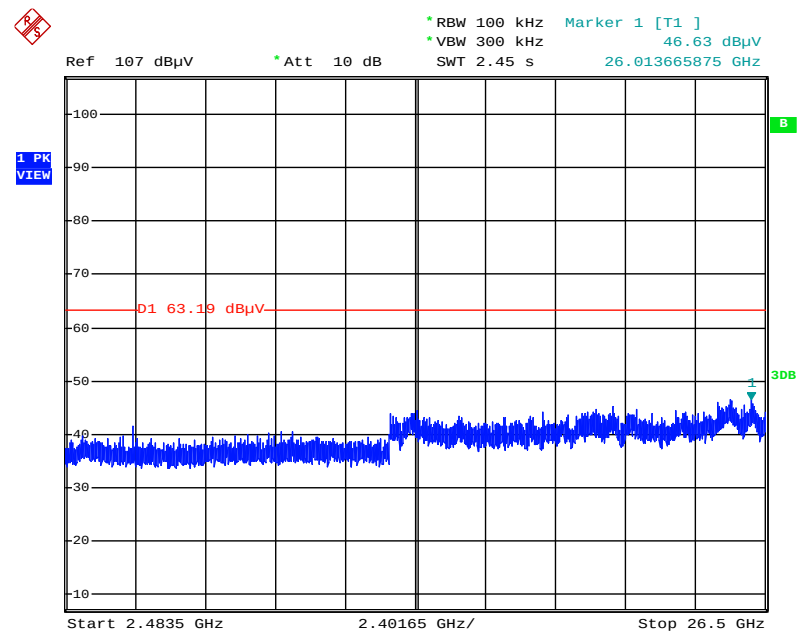
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Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



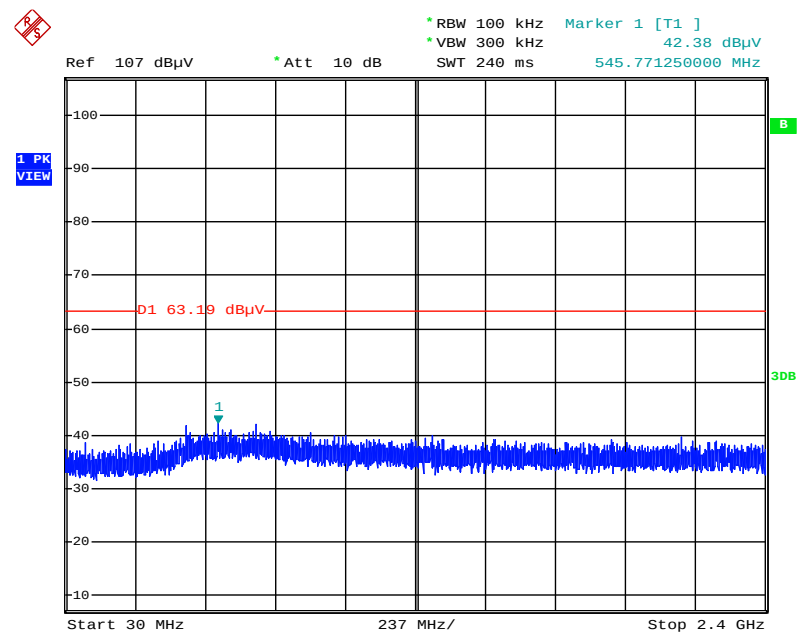
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Plot on Configuration IEEE 802.11b / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



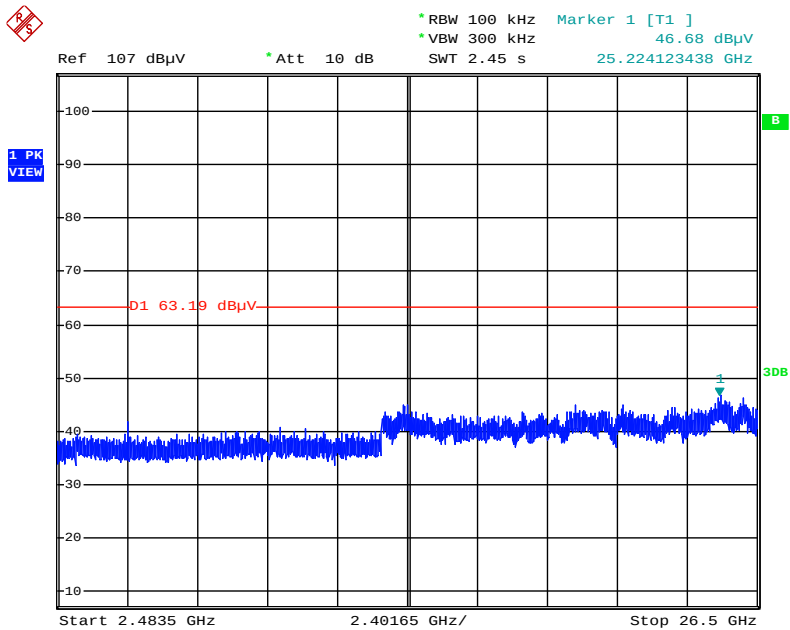
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Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



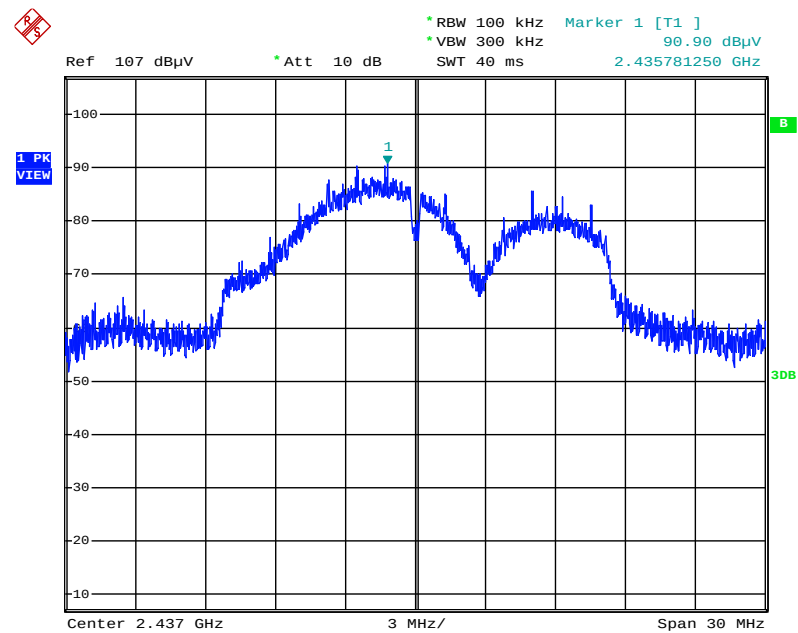
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Plot on Configuration IEEE 802.11b / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



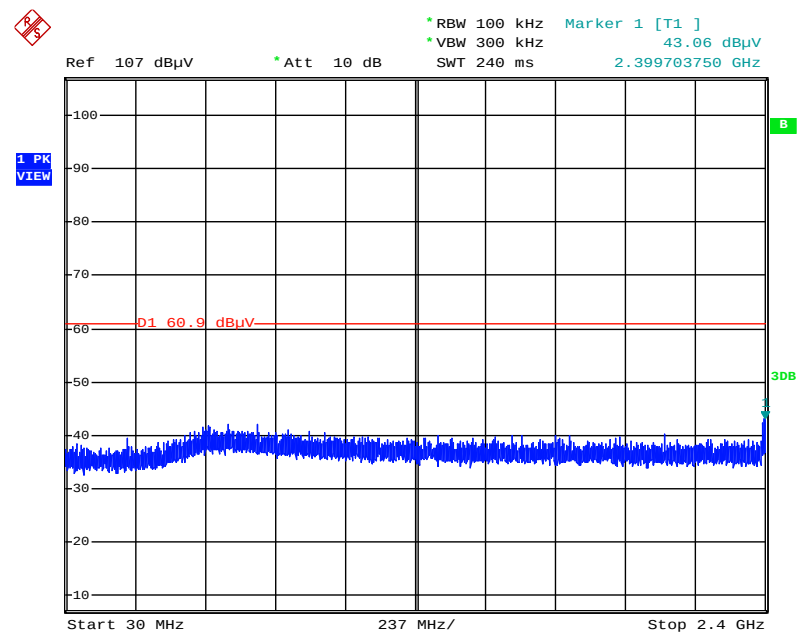
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Plot on Configuration IEEE 802.11g / Reference Level



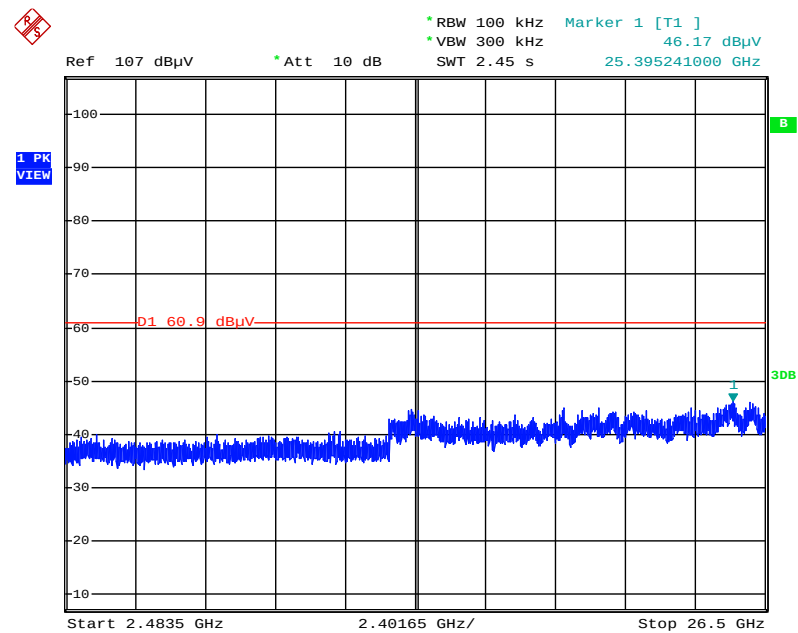
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Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



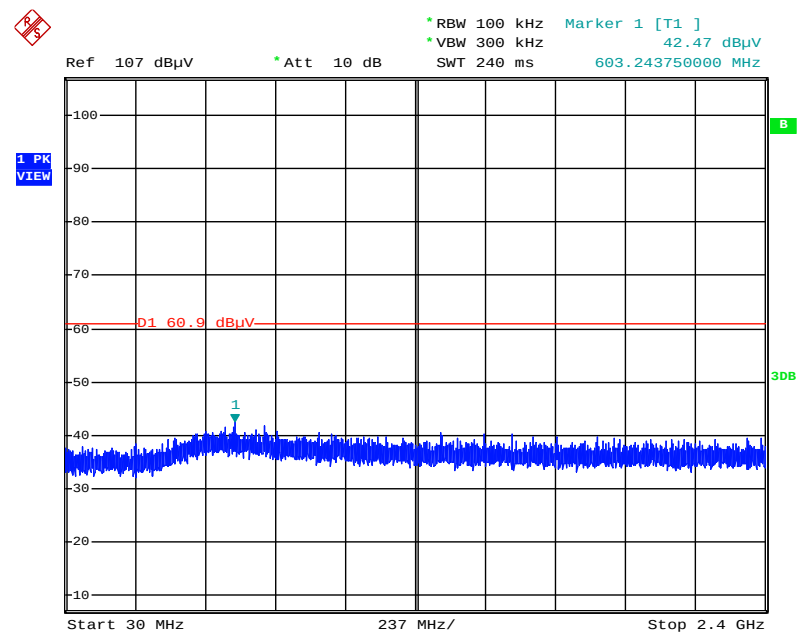
Date: 13.AUG.2016 21:22:14

Plot on Configuration IEEE 802.11g / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



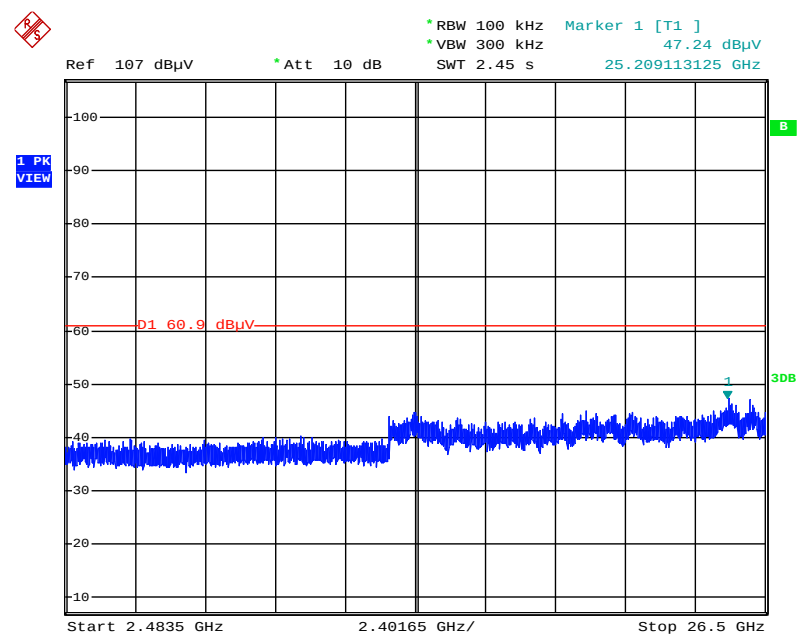
Date: 13.AUG.2016 21:22:49

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



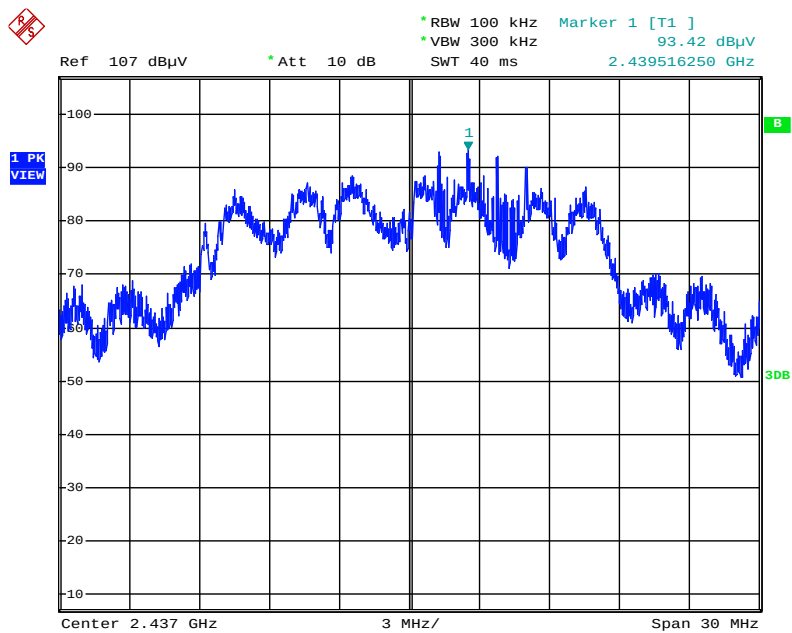
Date: 13.AUG.2016 21:23:49

Plot on Configuration IEEE 802.11g / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



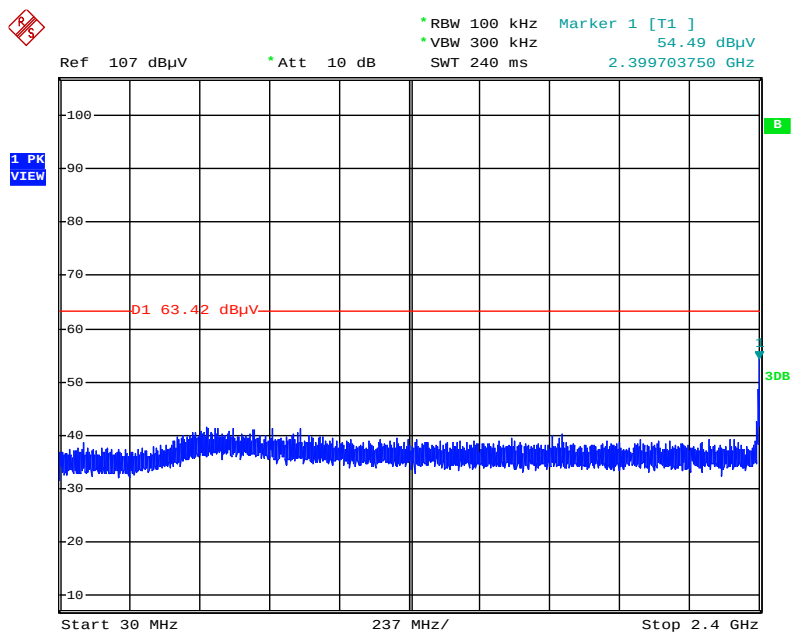
Date: 13.AUG.2016 21:24:25

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



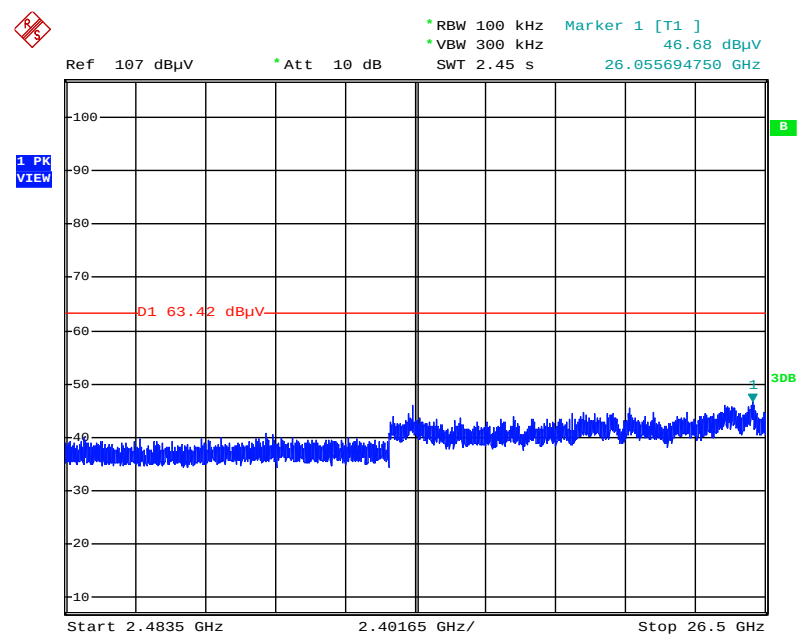
Date: 13.AUG.2016 21:26:02

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



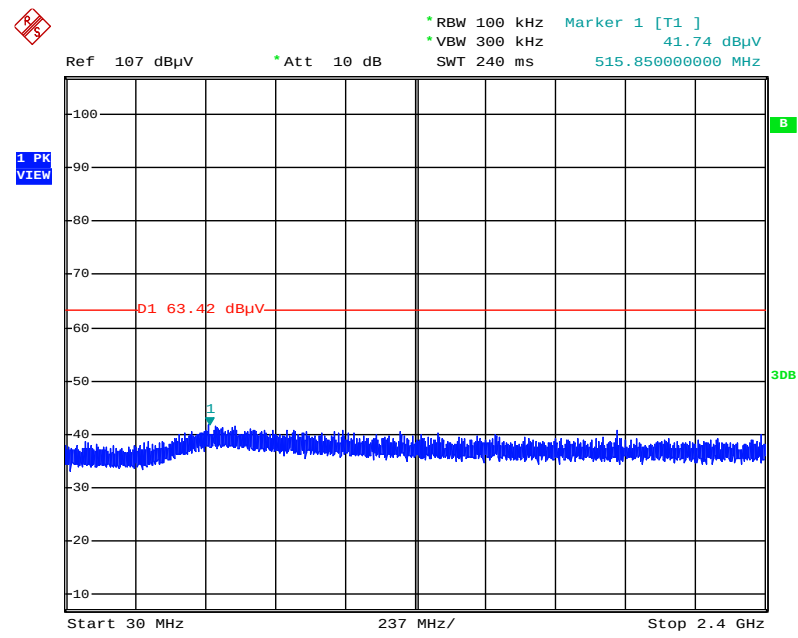
Date: 13.AUG.2016 21:27:26

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



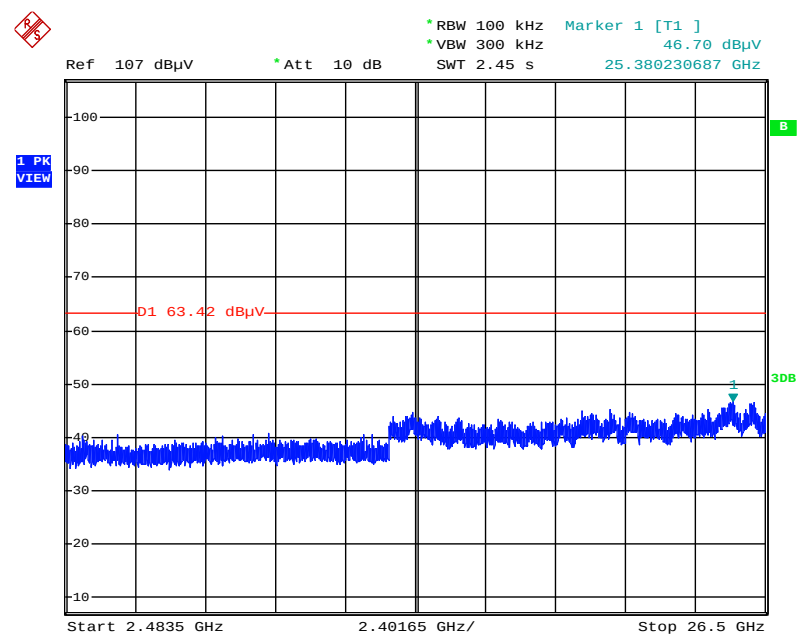
Date: 13.AUG.2016 21:28:02

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



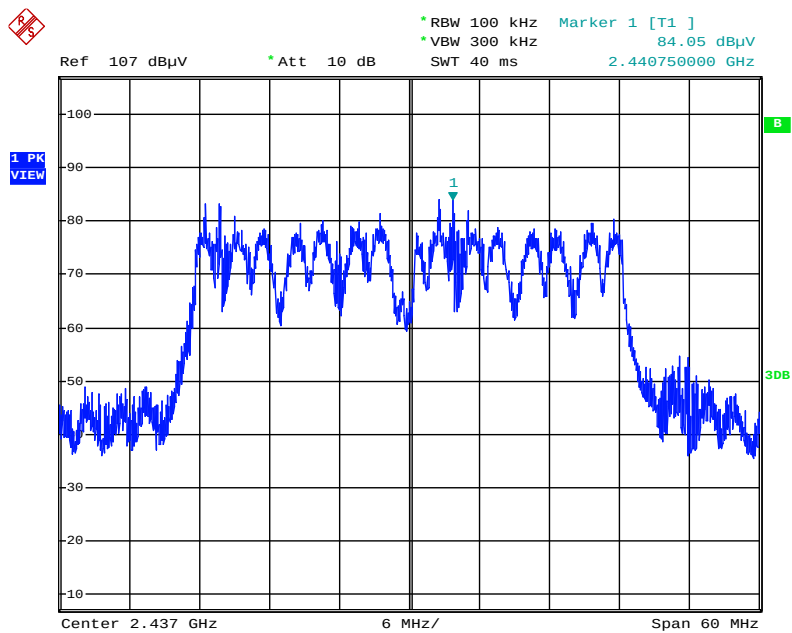
Date: 13.AUG.2016 21:29:08

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



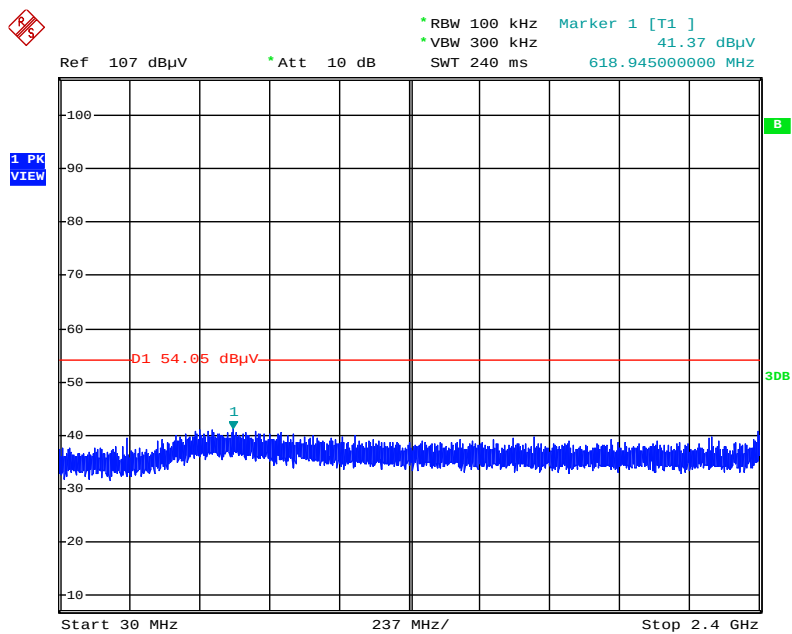
Date: 13.AUG.2016 21:29:49

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



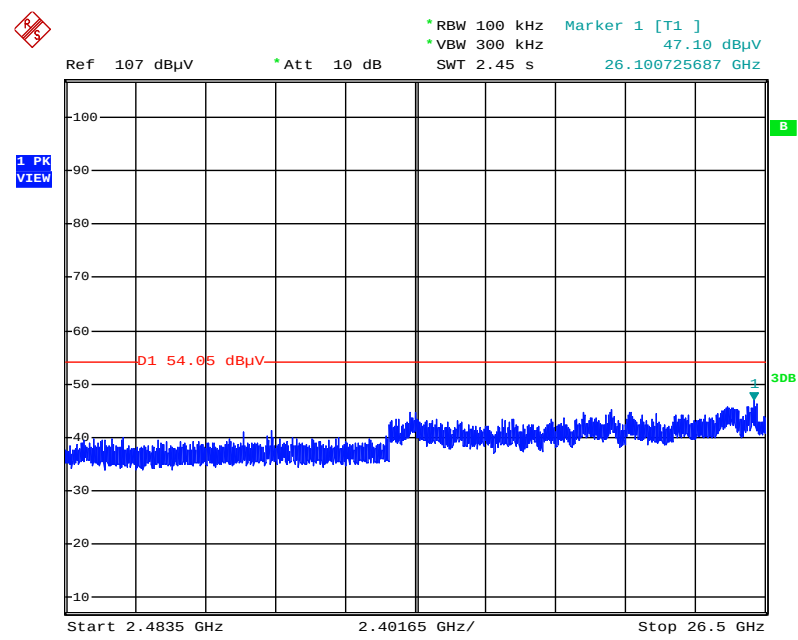
Date: 13.AUG.2016 21:31:13

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



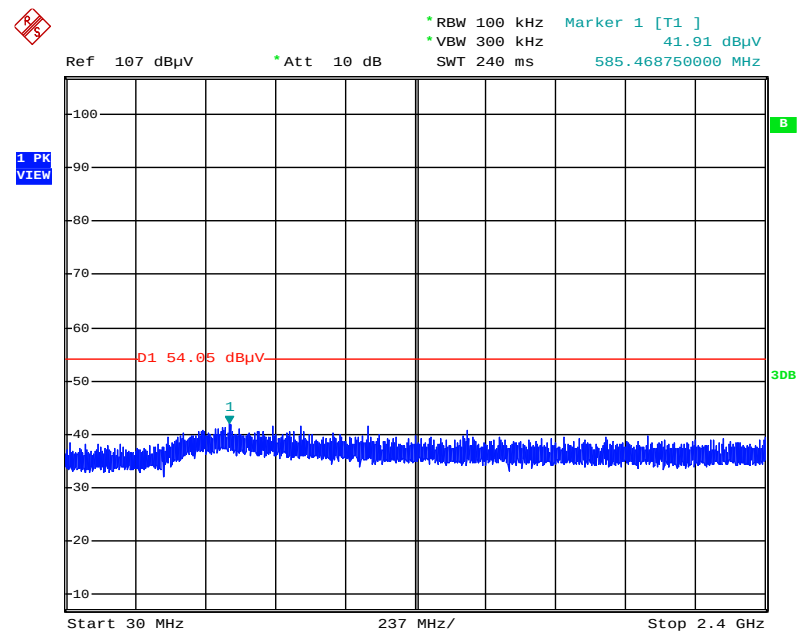
Date: 13.AUG.2016 21:32:20

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



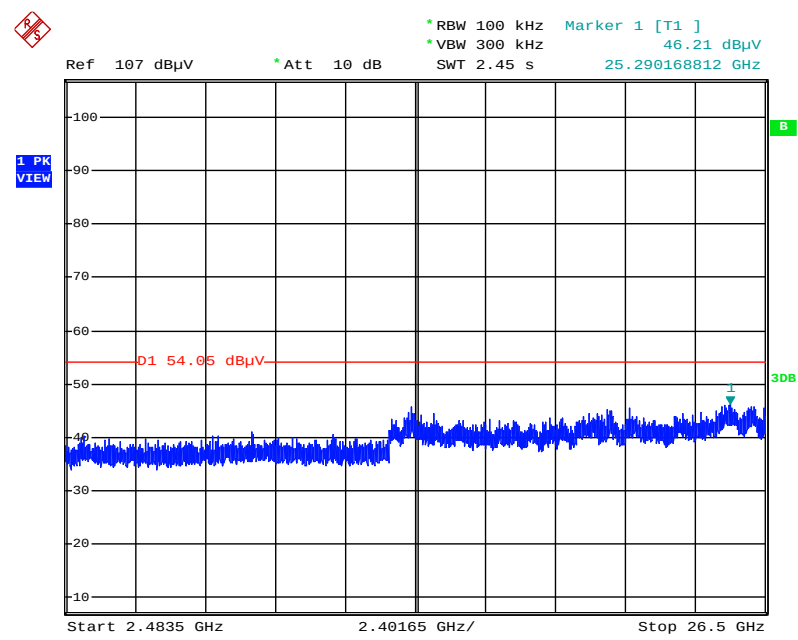
Date: 13.AUG.2016 21:32:51

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 13.AUG.2016 21:33:42

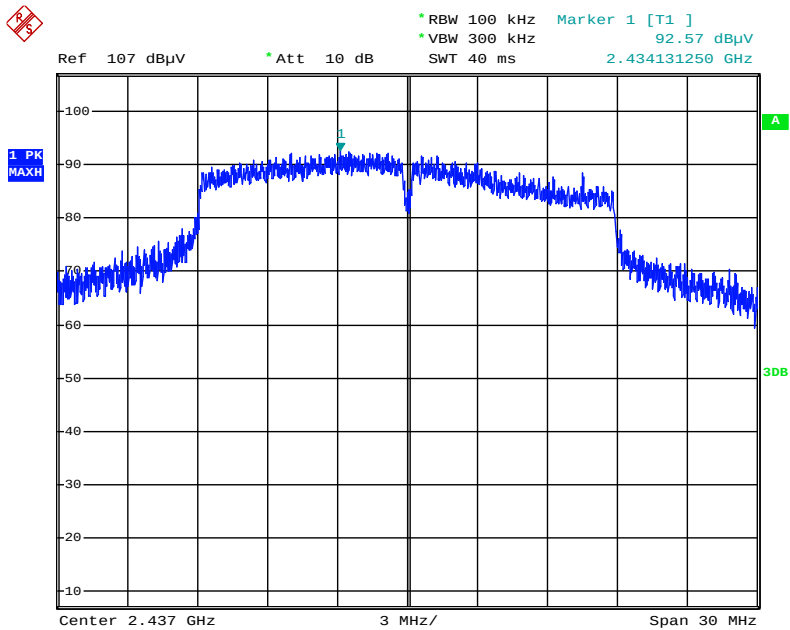
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)



Date: 13.AUG.2016 21:34:16

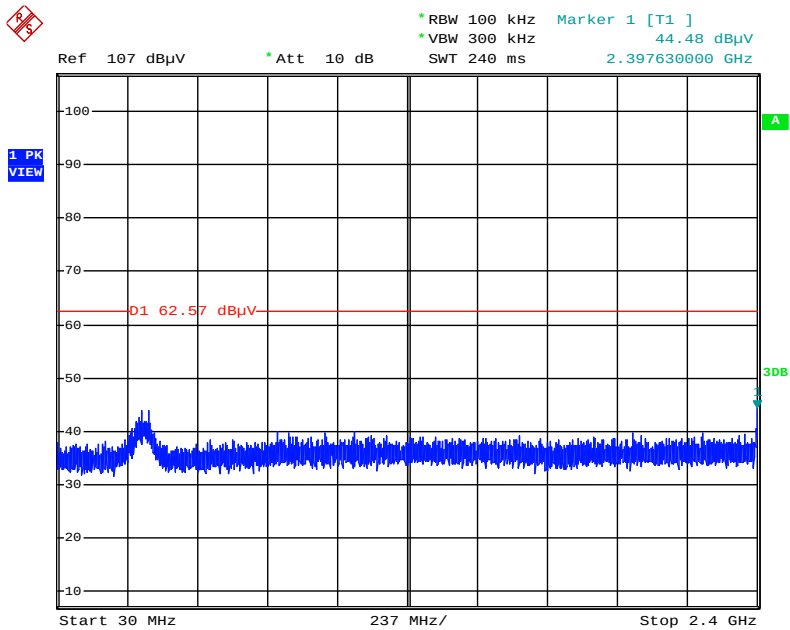
<For Beamforming Mode>

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



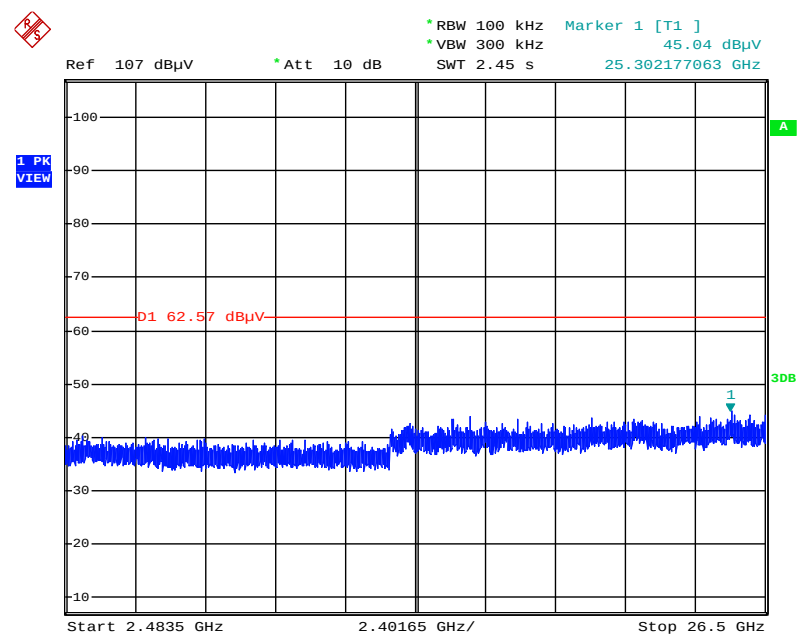
Date: 26.AUG.2016 01:52:43

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



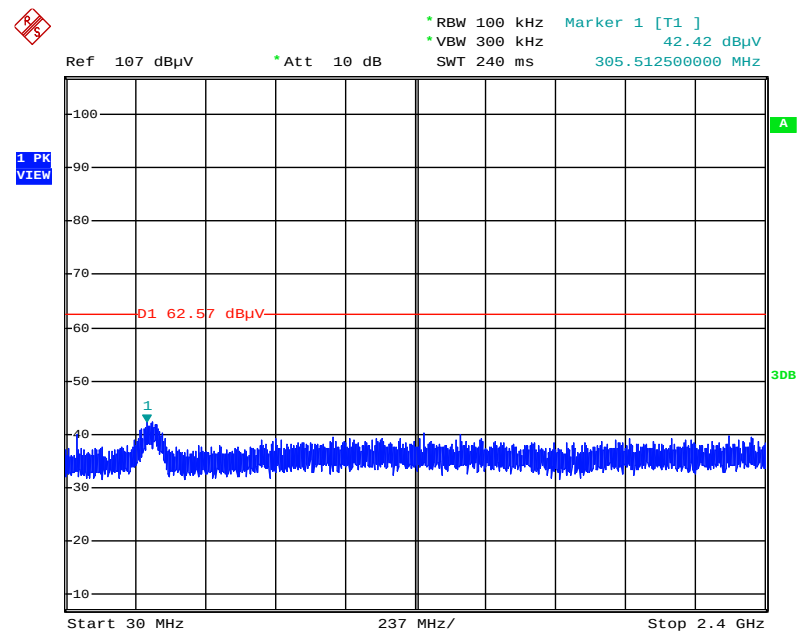
Date: 26.AUG.2016 01:53:58

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



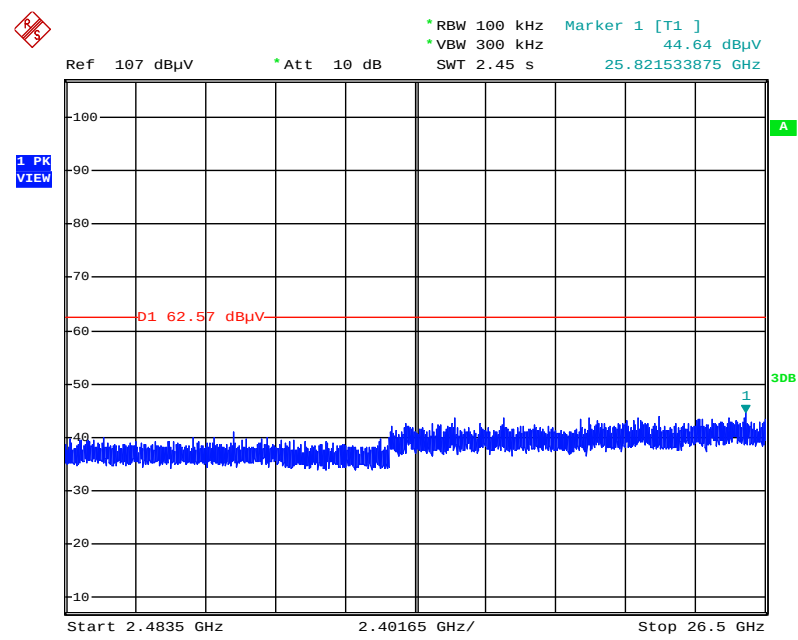
Date: 26.AUG.2016 01:54:25

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



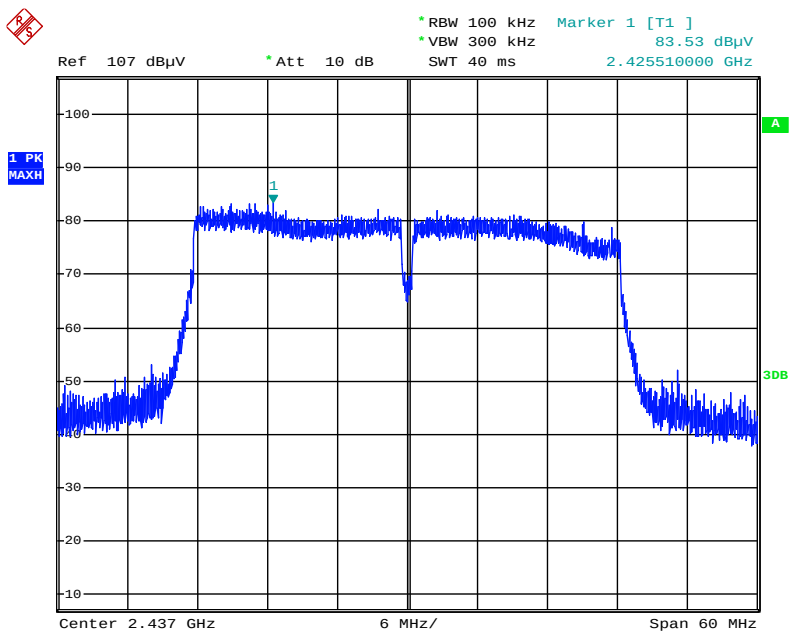
Date: 26.AUG.2016 01:55:50

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



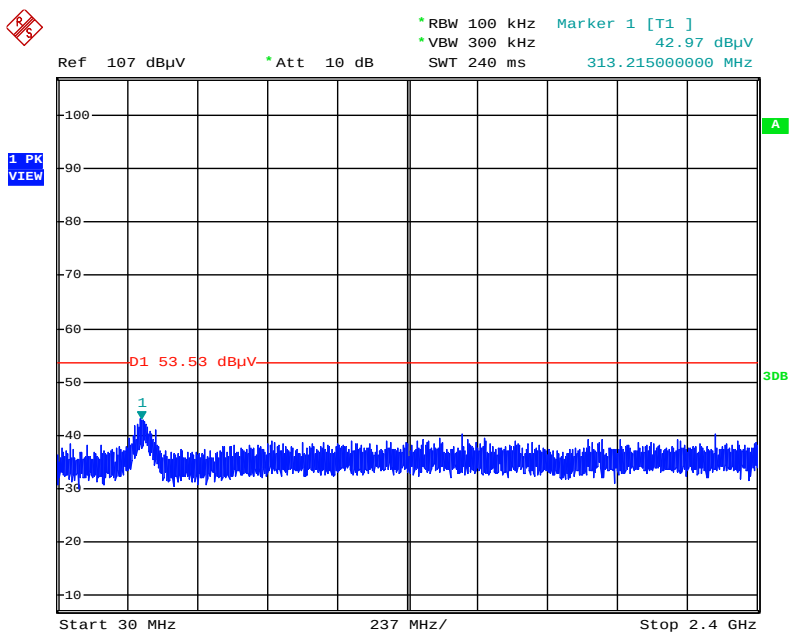
Date: 26.AUG.2016 01:55:28

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



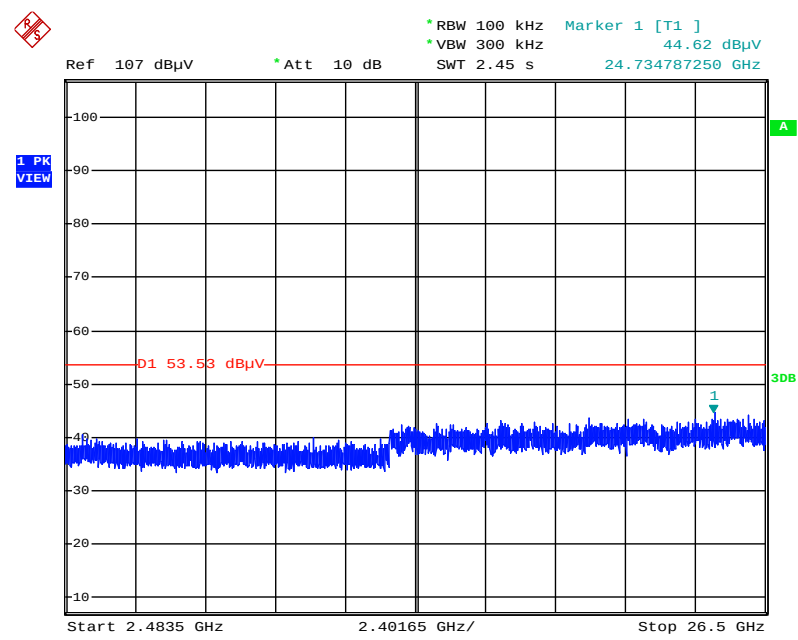
Date: 26.AUG.2016 01:58:06

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



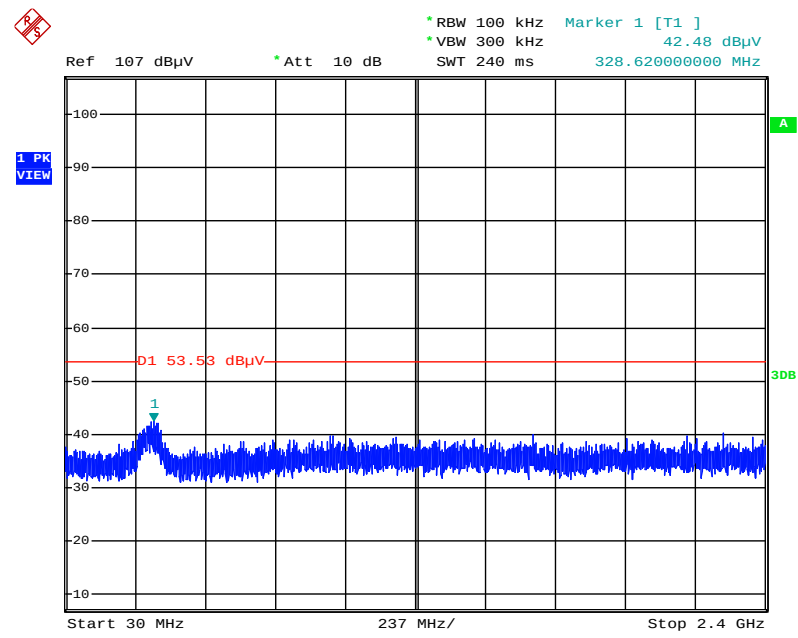
Date: 26.AUG.2016 02:02:22

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



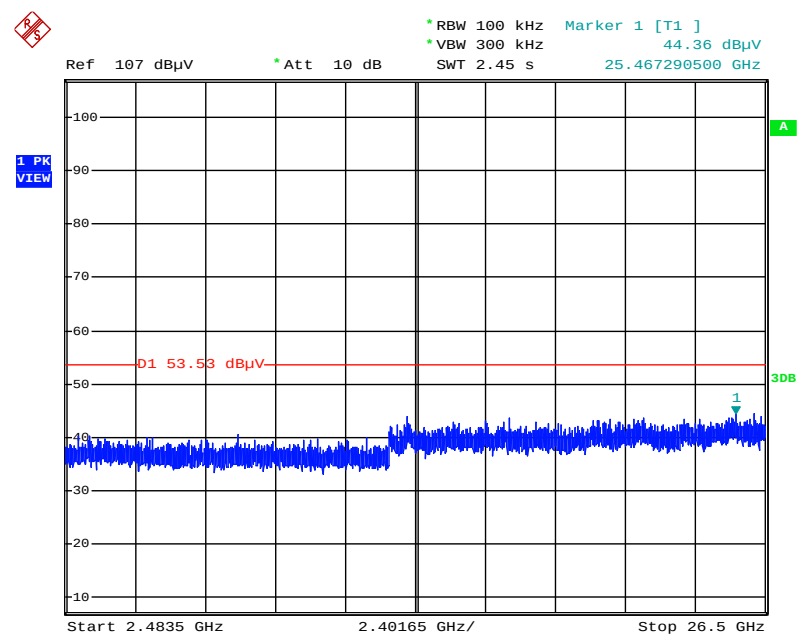
Date: 26.AUG.2016 01:59:38

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



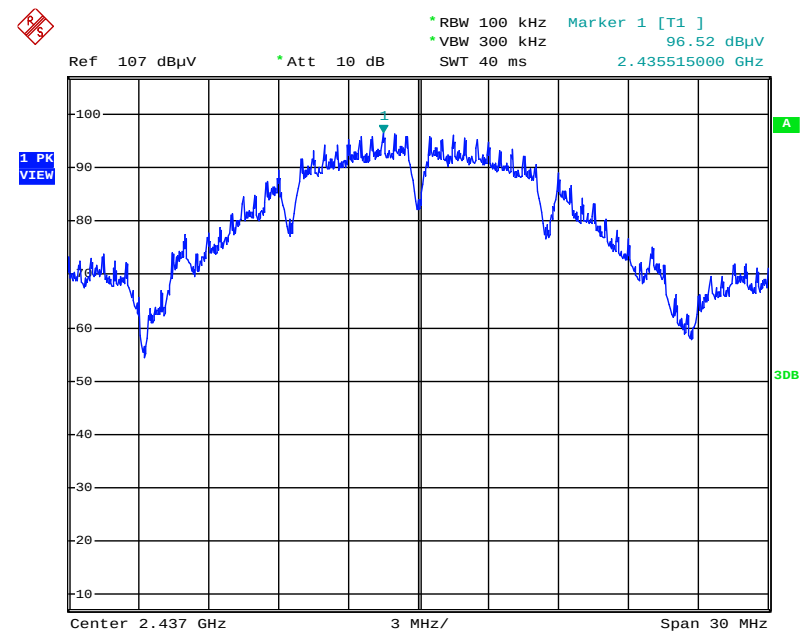
Date: 26.AUG.2016 02:00:42

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)



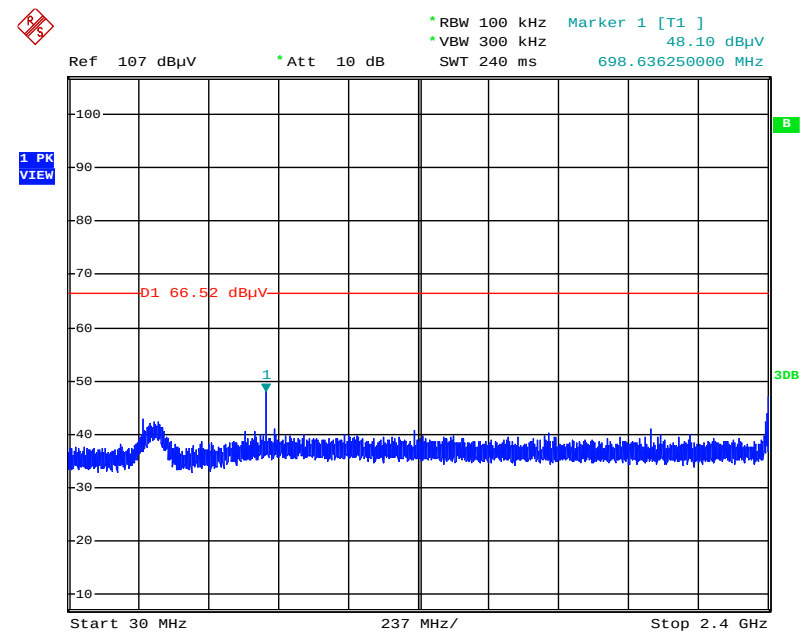
Date: 26.AUG.2016 02:00:24

For Antenna 2  
<For Non-Beamforming Mode>  
Plot on Configuration IEEE 802.11b / Reference Level



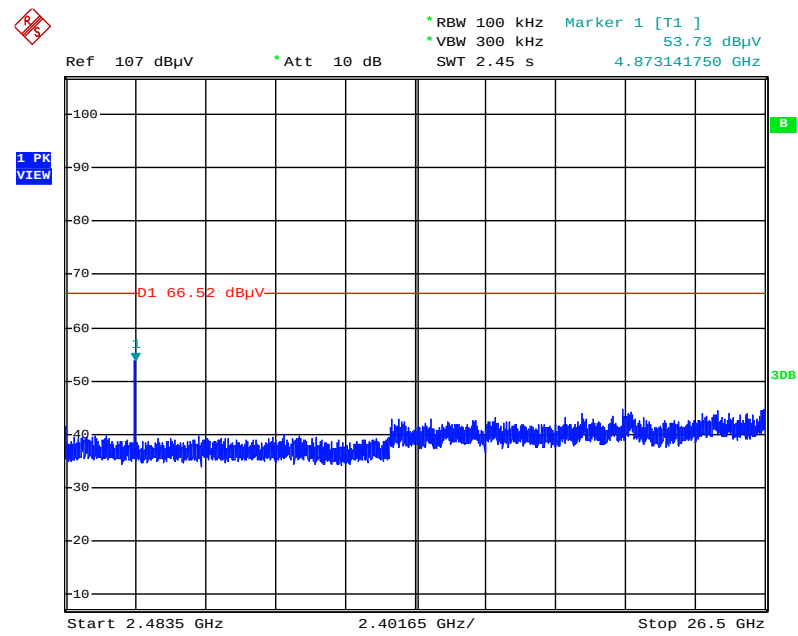
Date: 17.AUG.2016 03:28:46

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



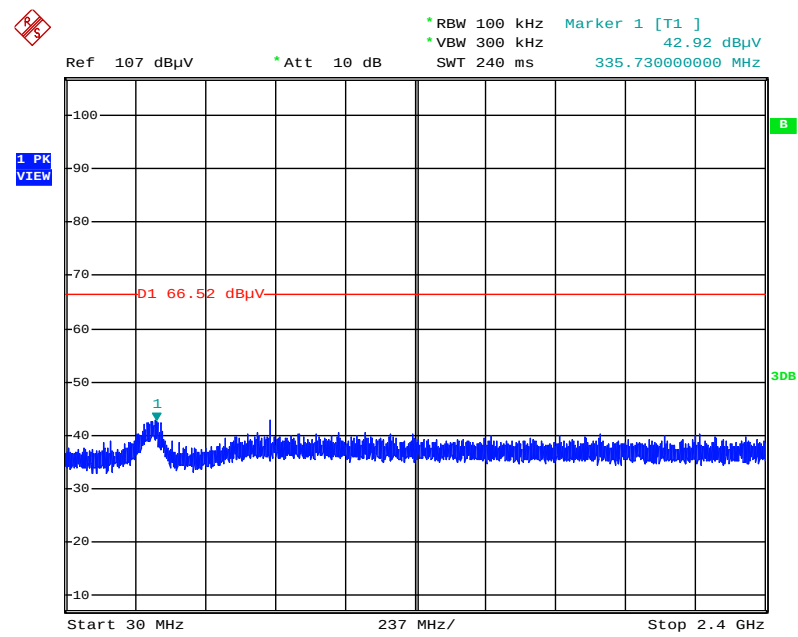
Date: 17.AUG.2016 03:31:03

Plot on Configuration IEEE 802.11b / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



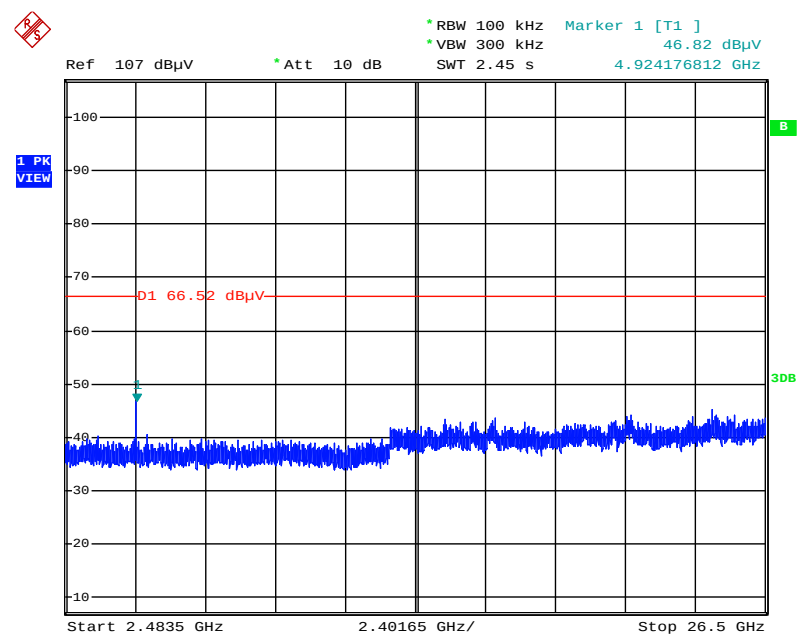
Date: 17.AUG.2016 03:32:24

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



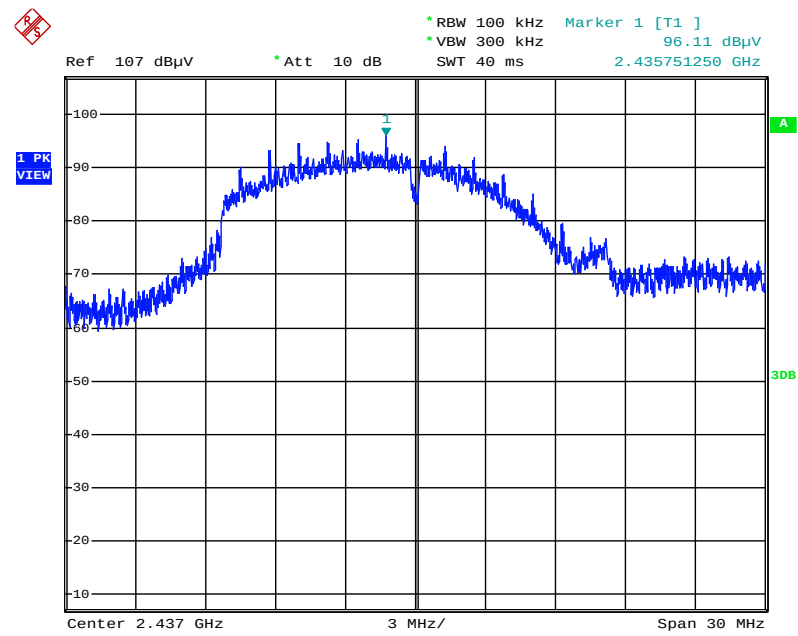
Date: 17.AUG.2016 03:33:53

Plot on Configuration IEEE 802.11b / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



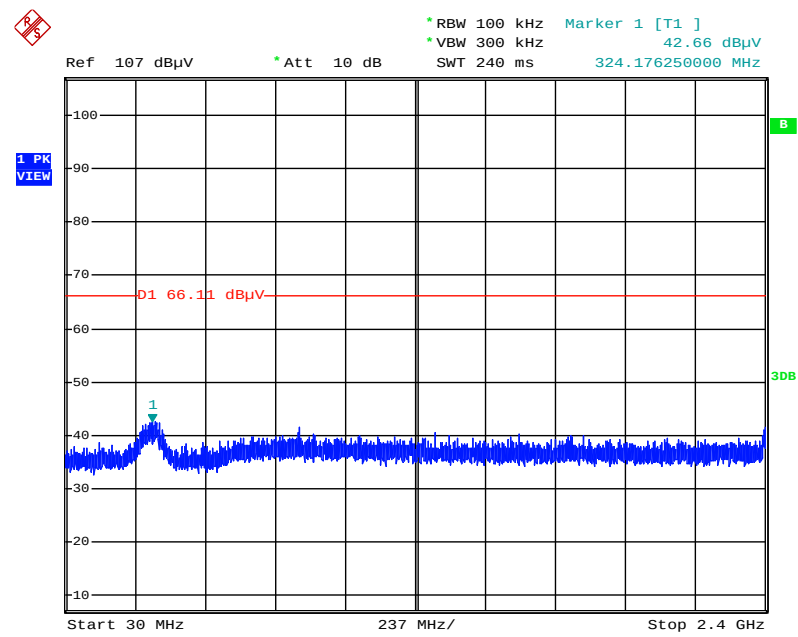
Date: 17.AUG.2016 03:33:13

Plot on Configuration IEEE 802.11g / Reference Level



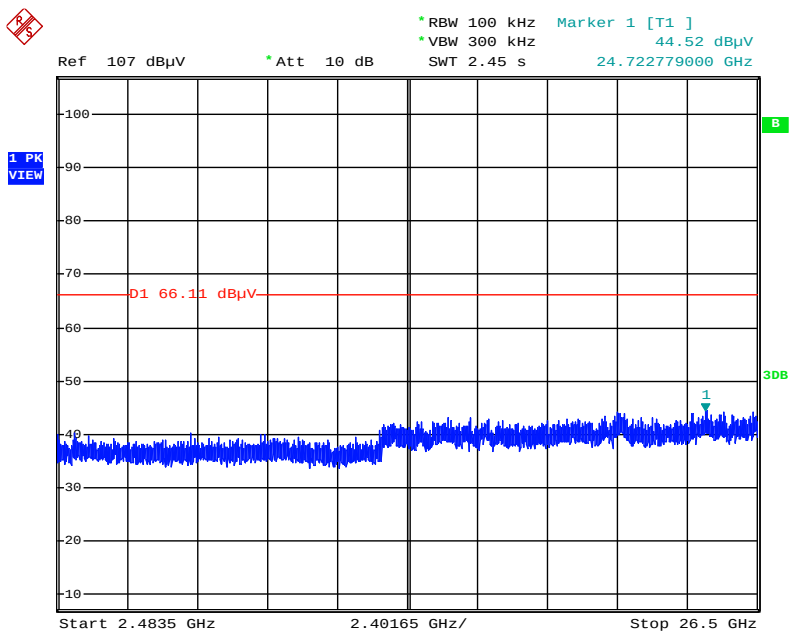
Date: 17.AUG.2016 03:34:46

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



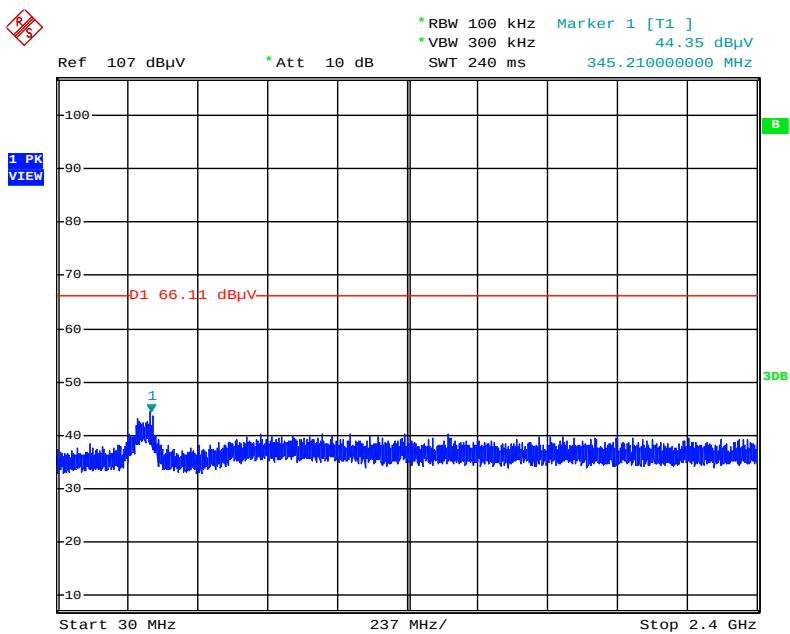
Date: 17.AUG.2016 03:35:56

Plot on Configuration IEEE 802.11g / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



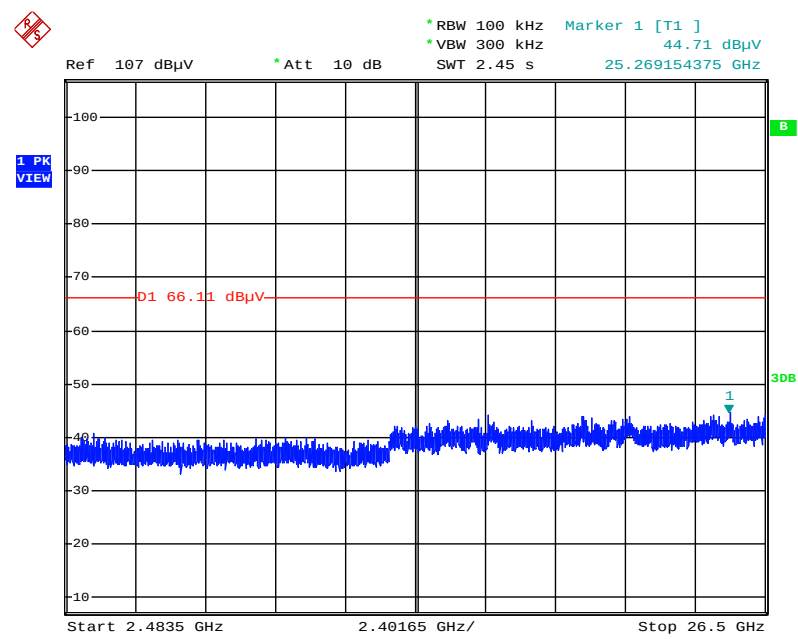
Date: 17.AUG.2016 03:36:37

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



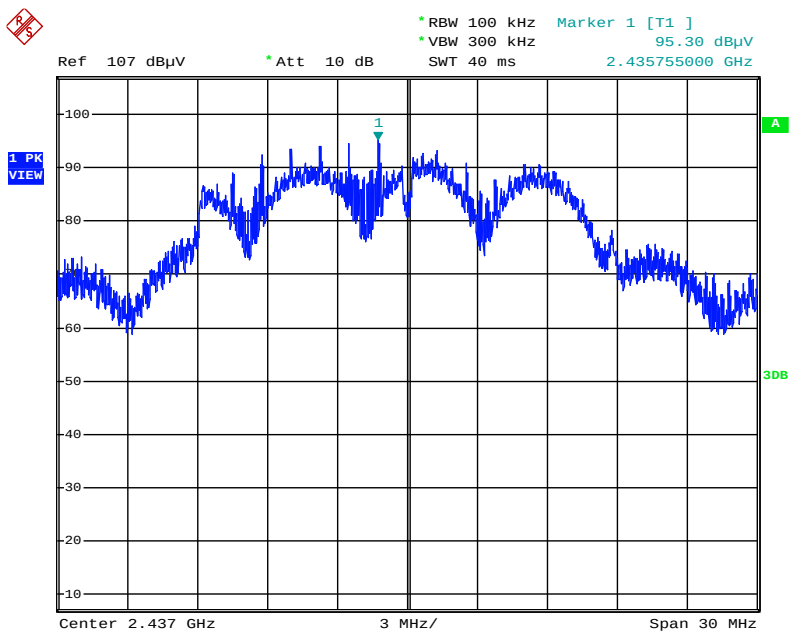
Date: 17.AUG.2016 03:37:56

Plot on Configuration IEEE 802.11g / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



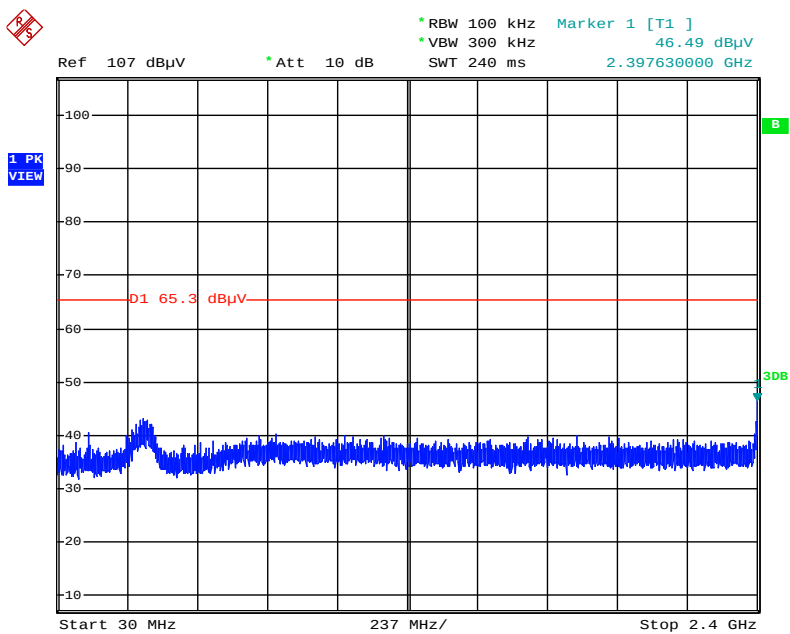
Date: 17.AUG.2016 03:37:23

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



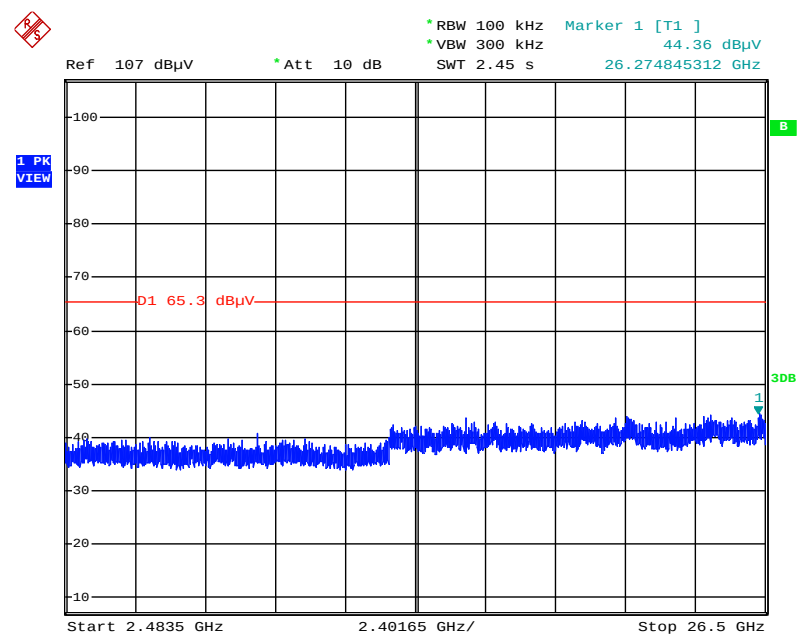
Date: 17.AUG.2016 03:39:18

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



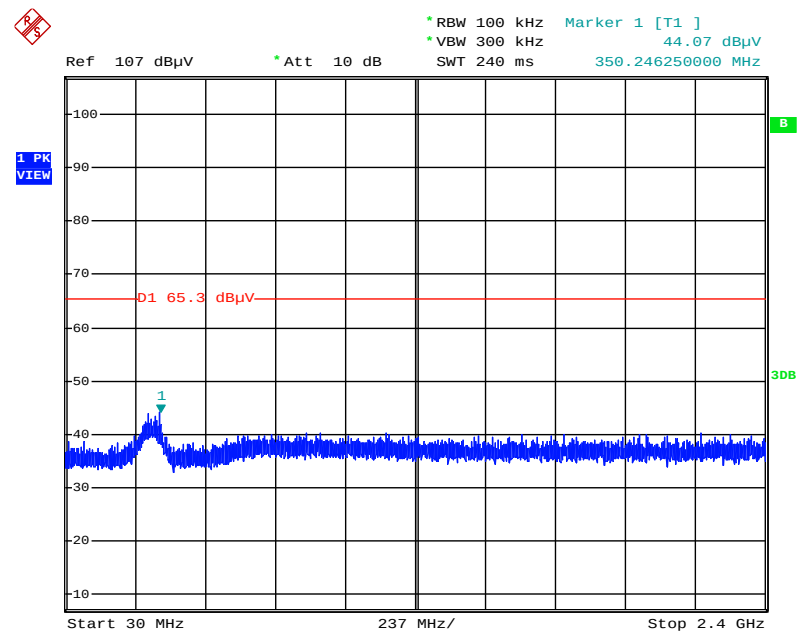
Date: 17.AUG.2016 03:40:34

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



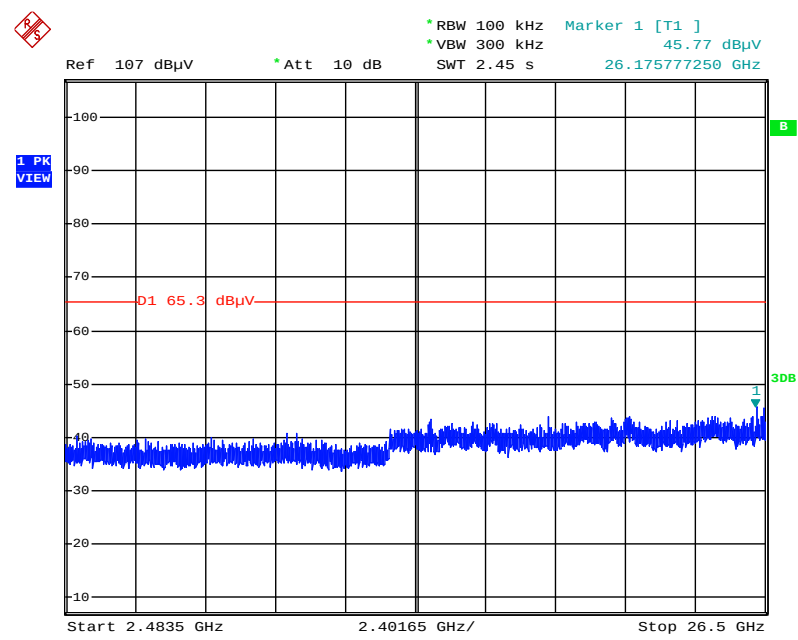
Date: 17.AUG.2016 03:41:07

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



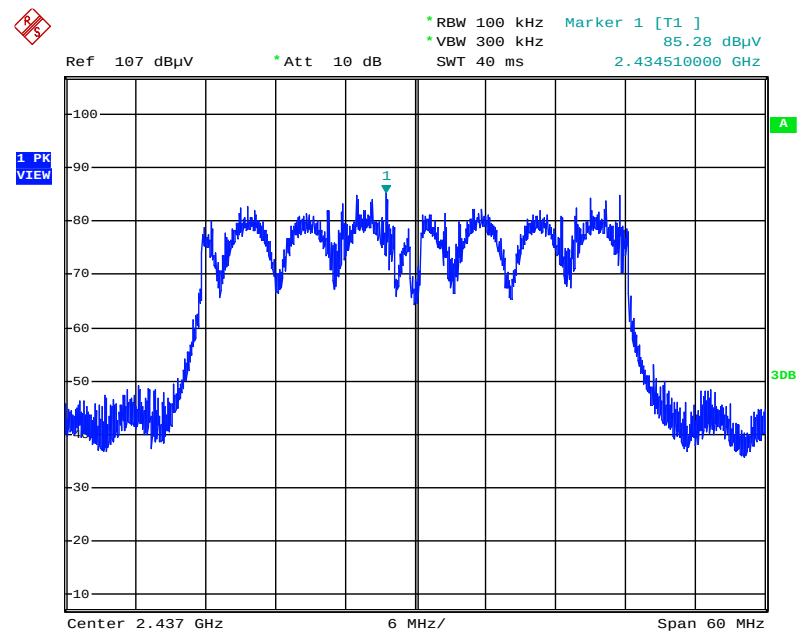
Date: 17.AUG.2016 03:42:39

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



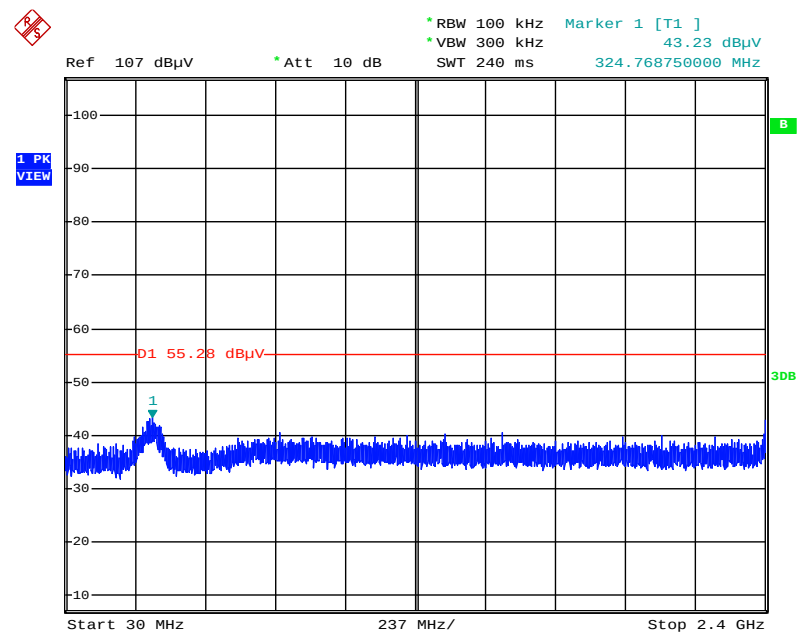
Date: 17.AUG.2016 03:42:00

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



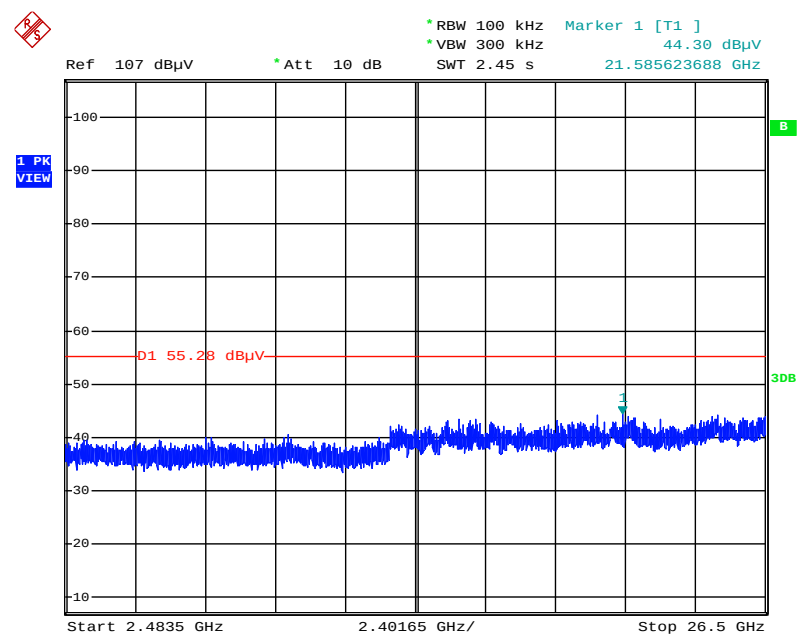
Date: 17.AUG.2016 03:43:57

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



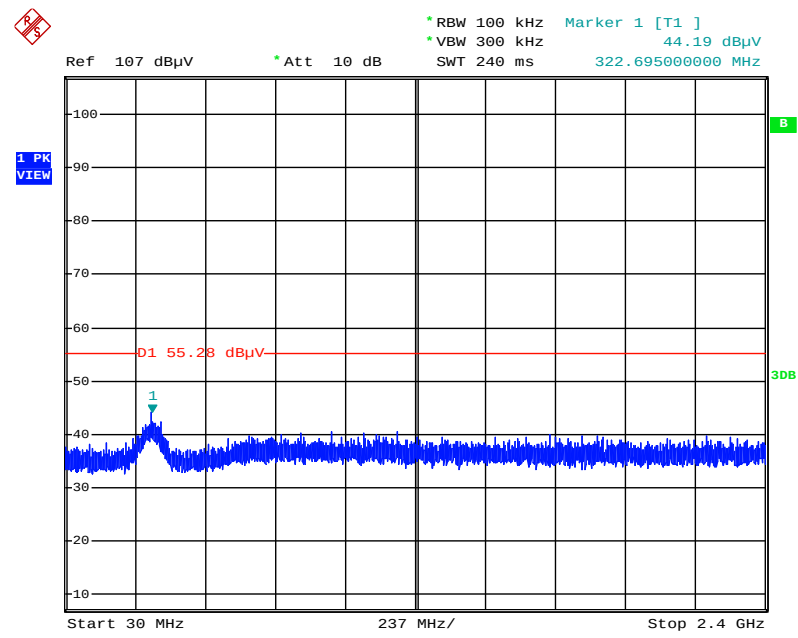
Date: 17.AUG.2016 03:45:34

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



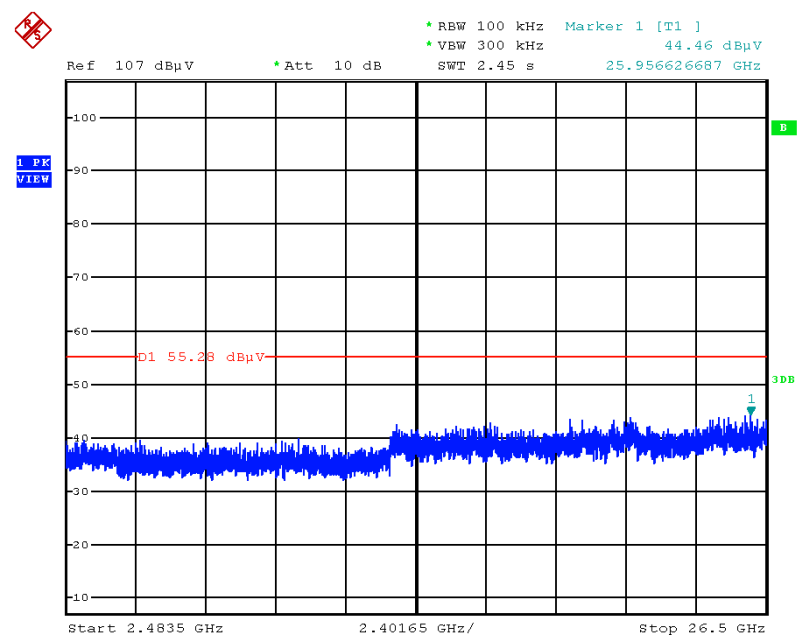
Date: 17.AUG.2016 03:47:11

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 17.AUG.2016 03:48:32

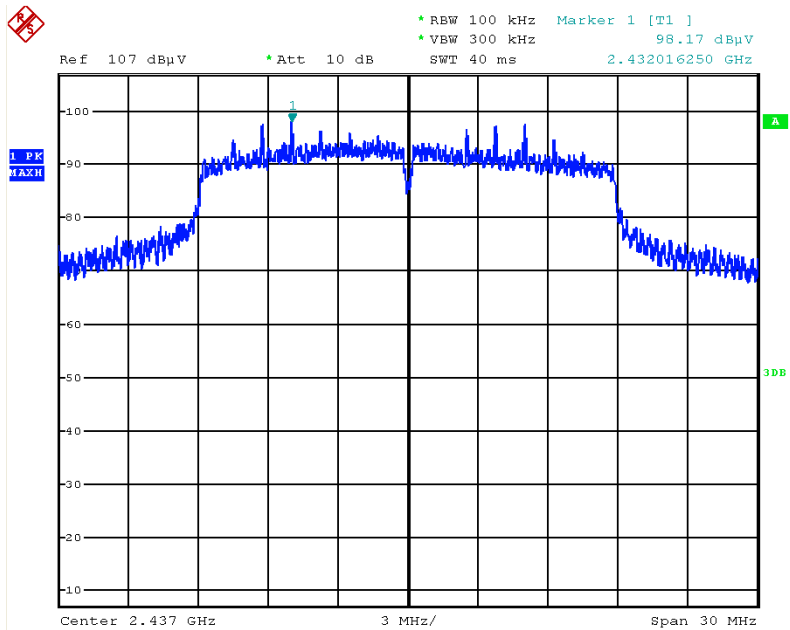
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)



Date: 17.AUG.2016 03:48:03

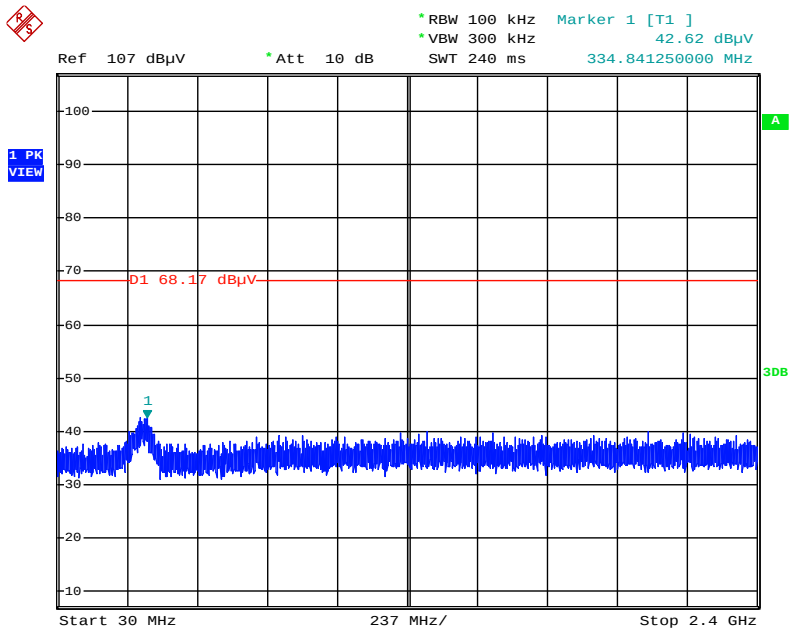
<For Beamforming Mode>

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



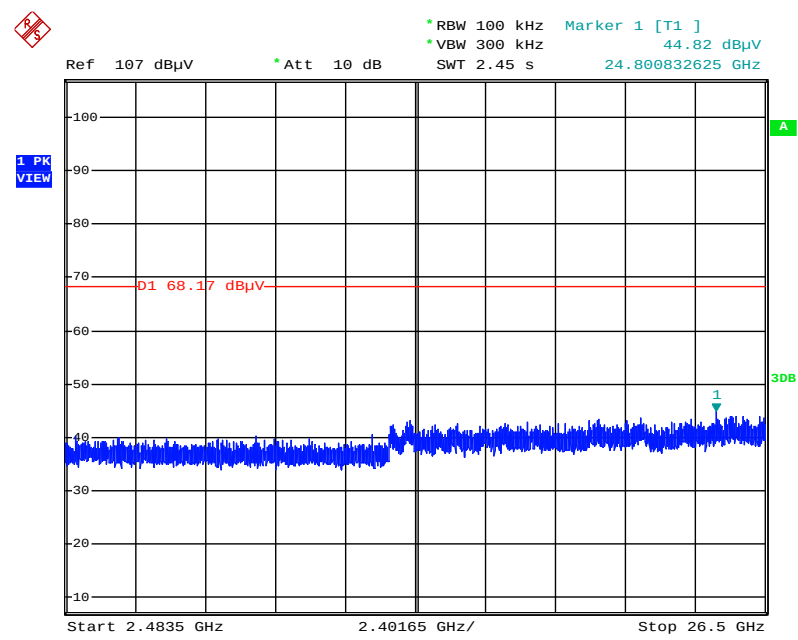
Date: 26.AUG.2016 00:05:07

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



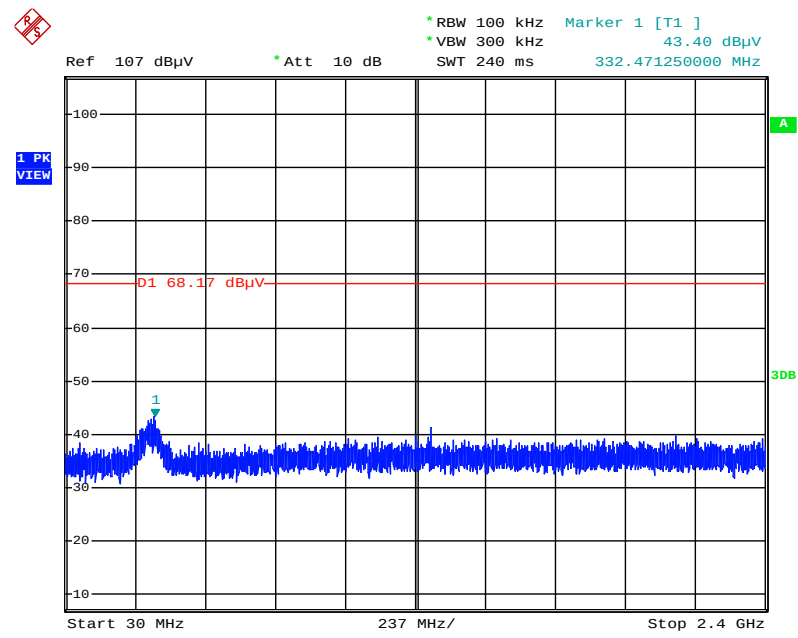
Date: 26.AUG.2016 00:07:14

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



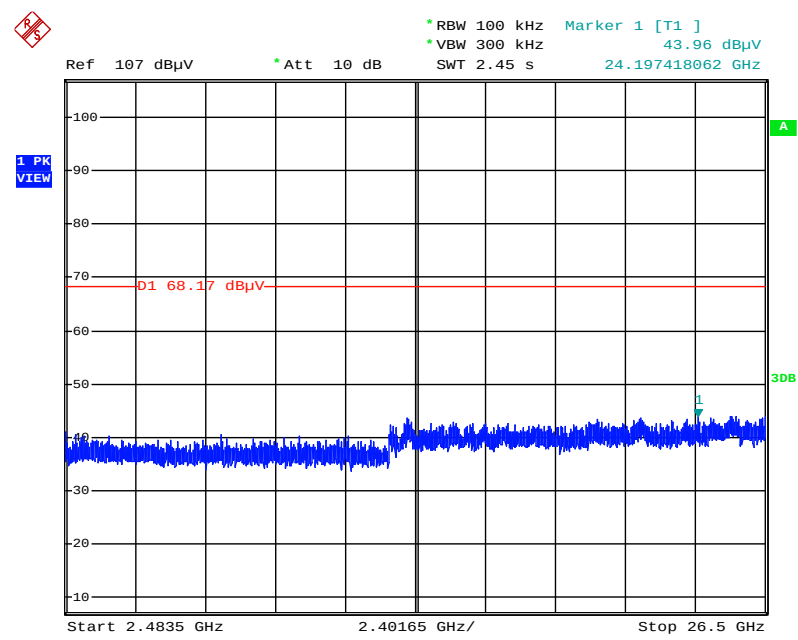
Date: 26.AUG.2016 00:08:41

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



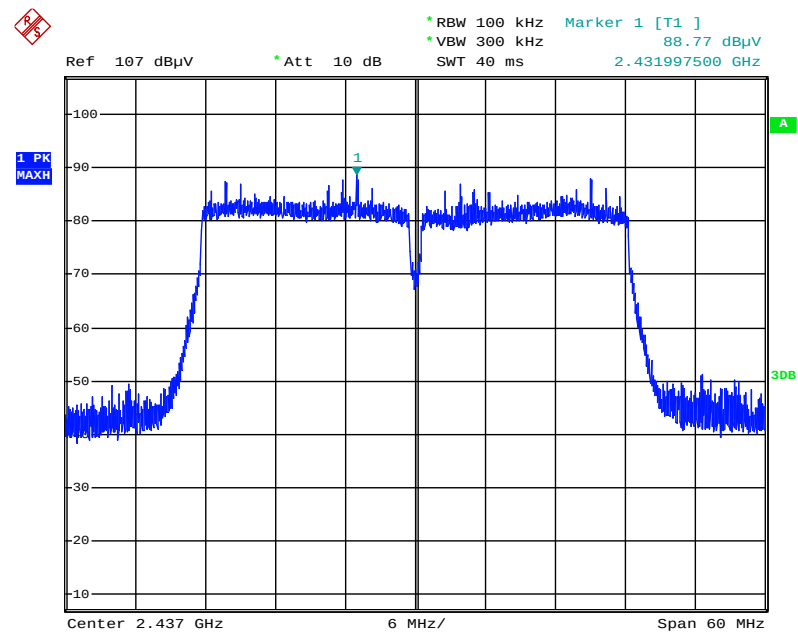
Date: 26.AUG.2016 00:10:43

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



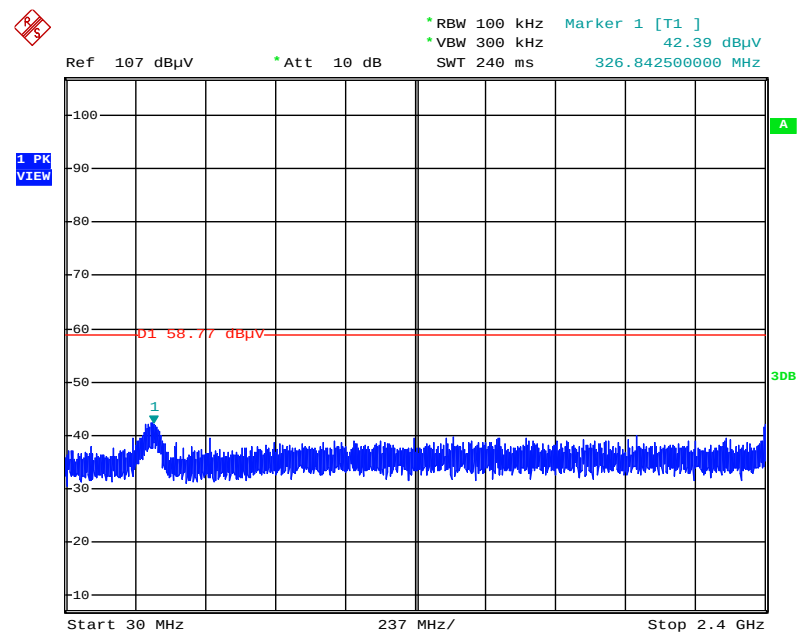
Date: 26.AUG.2016 00:10:23

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



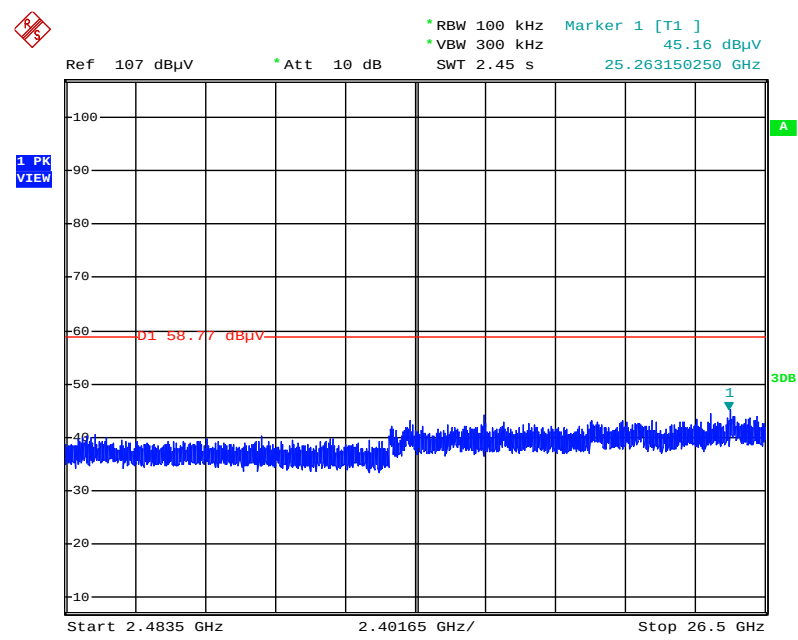
Date: 26.AUG.2016 00:12:03

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



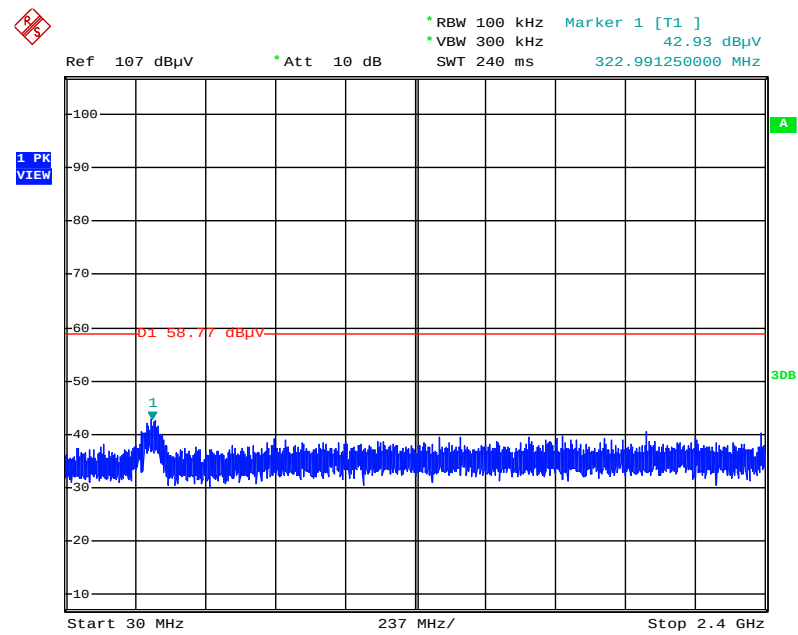
Date: 26.AUG.2016 00:13:23

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



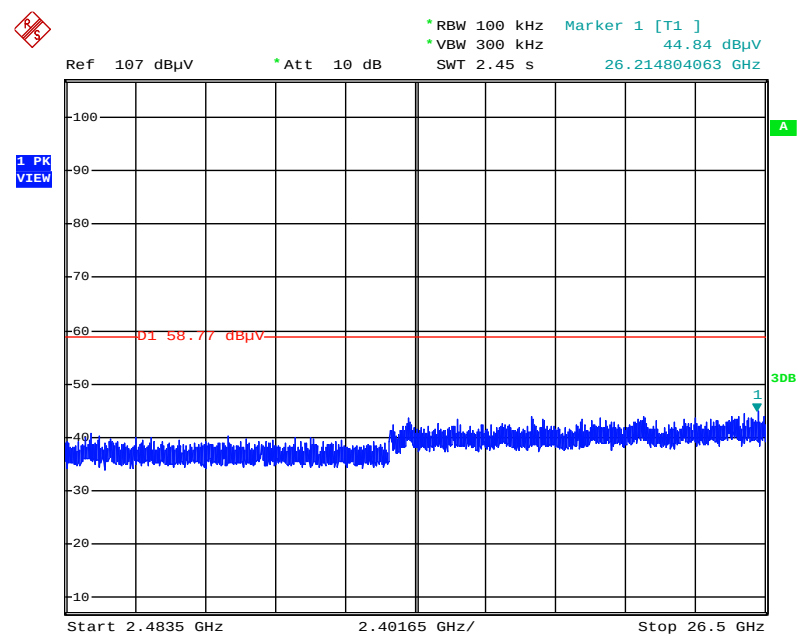
Date: 26.AUG.2016 00:13:47

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 26.AUG.2016 00:15:26

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)

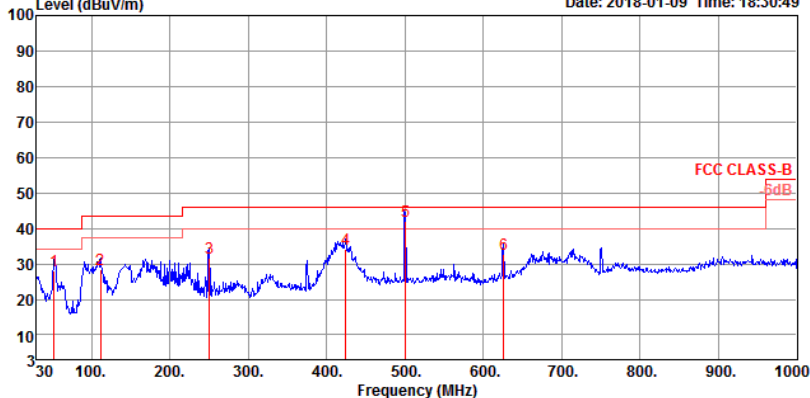


Date: 26.AUG.2016 00:14:48



Results of Radiated Emissions  
(30-1GHz and Unintentional 1GHz~5th Harmonic)

Appendix F.1

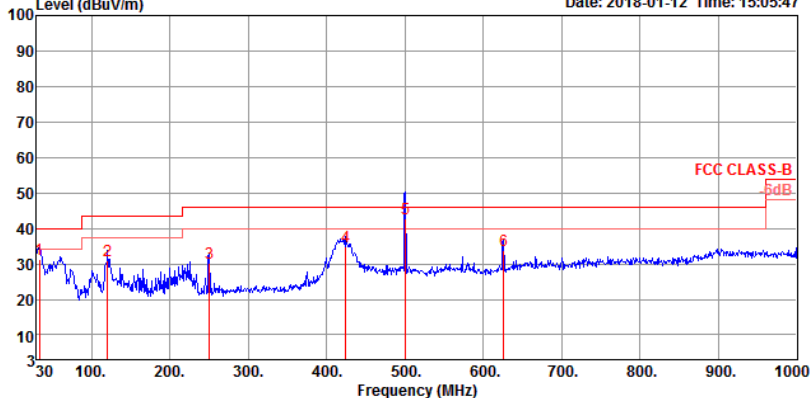
| Results of Radiated Emissions (30-1GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |        |        |        |              |              |        |            |       |          |            |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|--------|--------|--------------|--------------|--------|------------|-------|----------|------------|--|------|-------|-------|------|------|--------------|--------|-------|-------|--------|-----------|--|-----|--------|--------|----|------|----|------|----|----|-----|--|---|-------|-------|-------|--------|-------|------|-------|-------|-----|----------|------------|---|--------|-------|-------|--------|-------|------|-------|-------|-----|----------|------------|---|--------|-------|-------|--------|-------|------|-------|-------|-----|---------|------------|---|--------|-------|-------|--------|-------|------|-------|-------|-----|----------|------------|---|--------|-------|-------|-------|-------|------|-------|-------|-----|--------|------------|---|--------|-------|-------|--------|-------|------|-------|-------|-----|----------|------------|
| Operating Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                 |        |        |        | Polarization |              |        | Horizontal |       |          |            |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Intentional – CTX |        |        |        |              |              |        |            |       |          |            |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
| <div><div><div>Level (dBuV/m)</div><div>Date: 2018-01-09 Time: 18:30:49</div><div></div></div><table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>52.31</td><td>28.21</td><td>40.00</td><td>-11.79</td><td>44.99</td><td>1.37</td><td>14.27</td><td>32.42</td><td>200</td><td>109 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>111.48</td><td>28.58</td><td>43.50</td><td>-14.92</td><td>41.68</td><td>1.01</td><td>18.26</td><td>32.37</td><td>300</td><td>161 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>250.19</td><td>31.50</td><td>46.00</td><td>-14.50</td><td>42.61</td><td>2.38</td><td>18.80</td><td>32.29</td><td>150</td><td>40 Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>424.79</td><td>34.13</td><td>46.00</td><td>-11.87</td><td>40.86</td><td>2.86</td><td>22.71</td><td>32.30</td><td>100</td><td>273 Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>500.45</td><td>42.19</td><td>46.00</td><td>-3.81</td><td>47.76</td><td>2.94</td><td>23.82</td><td>32.33</td><td>240</td><td>274 QP</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>625.58</td><td>32.62</td><td>46.00</td><td>-13.38</td><td>37.08</td><td>2.76</td><td>25.16</td><td>32.38</td><td>150</td><td>256 Peak</td><td>HORIZONTAL</td></tr></table></div> |                   |        |        |        |              |              |        |            |       |          |            |  | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg |  | 1 | 52.31 | 28.21 | 40.00 | -11.79 | 44.99 | 1.37 | 14.27 | 32.42 | 200 | 109 Peak | HORIZONTAL | 2 | 111.48 | 28.58 | 43.50 | -14.92 | 41.68 | 1.01 | 18.26 | 32.37 | 300 | 161 Peak | HORIZONTAL | 3 | 250.19 | 31.50 | 46.00 | -14.50 | 42.61 | 2.38 | 18.80 | 32.29 | 150 | 40 Peak | HORIZONTAL | 4 | 424.79 | 34.13 | 46.00 | -11.87 | 40.86 | 2.86 | 22.71 | 32.30 | 100 | 273 Peak | HORIZONTAL | 5 | 500.45 | 42.19 | 46.00 | -3.81 | 47.76 | 2.94 | 23.82 | 32.33 | 240 | 274 QP | HORIZONTAL | 6 | 625.58 | 32.62 | 46.00 | -13.38 | 37.08 | 2.76 | 25.16 | 32.38 | 150 | 256 Peak | HORIZONTAL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Freq              | Level  | Limit  | Over   | Read         | CableAntenna | Preamp | A/Pos      | T/Pos | Remark   | Pol/Phase  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MHz               | dBuV/m | dBuV/m | dB     | dBuV         | dB           | dB/m   | dB         | cm    | deg      |            |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 52.31             | 28.21  | 40.00  | -11.79 | 44.99        | 1.37         | 14.27  | 32.42      | 200   | 109 Peak | HORIZONTAL |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 111.48            | 28.58  | 43.50  | -14.92 | 41.68        | 1.01         | 18.26  | 32.37      | 300   | 161 Peak | HORIZONTAL |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 250.19            | 31.50  | 46.00  | -14.50 | 42.61        | 2.38         | 18.80  | 32.29      | 150   | 40 Peak  | HORIZONTAL |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 424.79            | 34.13  | 46.00  | -11.87 | 40.86        | 2.86         | 22.71  | 32.30      | 100   | 273 Peak | HORIZONTAL |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 500.45            | 42.19  | 46.00  | -3.81  | 47.76        | 2.94         | 23.82  | 32.33      | 240   | 274 QP   | HORIZONTAL |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 625.58            | 32.62  | 46.00  | -13.38 | 37.08        | 2.76         | 25.16  | 32.38      | 150   | 256 Peak | HORIZONTAL |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |
| <div>Note 1: "&gt;20dB" means emission levels that exceed the level of 20 dB below the applicable limit.</div> <div>Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |        |        |        |              |              |        |            |       |          |            |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |        |       |      |       |       |     |         |            |   |        |       |       |        |       |      |       |       |     |          |            |   |        |       |       |       |       |      |       |       |     |        |            |   |        |       |       |        |       |      |       |       |     |          |            |

Results of Radiated Emissions (30-1GHz)

|                    |                   |             |          |
|--------------------|-------------------|-------------|----------|
| Operating Mode     | 3                 | Power Phase | Vertical |
| Operating Function | Intentional – CTX |             |          |

Level (dBuV/m)

Date: 2018-01-12 Time: 15:05:47



|   | Freq   | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark   | Pol/Phase |
|---|--------|--------|--------|--------|-------|--------------|--------|-------|-------|----------|-----------|
|   | MHz    | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg      |           |
| 1 | 33.88  | 31.37  | 40.00  | -8.63  | 39.51 | 1.00         | 23.29  | 32.43 | 100   | 236 Peak | VERTICAL  |
| 2 | 120.21 | 30.81  | 43.50  | -12.69 | 43.34 | 1.14         | 18.69  | 32.36 | 100   | 166 Peak | VERTICAL  |
| 3 | 250.19 | 30.13  | 46.00  | -15.87 | 41.24 | 2.38         | 18.80  | 32.29 | 100   | 87 Peak  | VERTICAL  |
| 4 | 424.79 | 34.77  | 46.00  | -11.23 | 41.50 | 2.86         | 22.71  | 32.30 | 100   | 180 Peak | VERTICAL  |
| 5 | 500.45 | 42.84  | 46.00  | -3.16  | 48.41 | 2.94         | 23.82  | 32.33 | 100   | 163 QP   | VERTICAL  |
| 6 | 625.58 | 33.68  | 46.00  | -12.32 | 38.14 | 2.76         | 25.16  | 32.38 | 100   | 186 Peak | VERTICAL  |

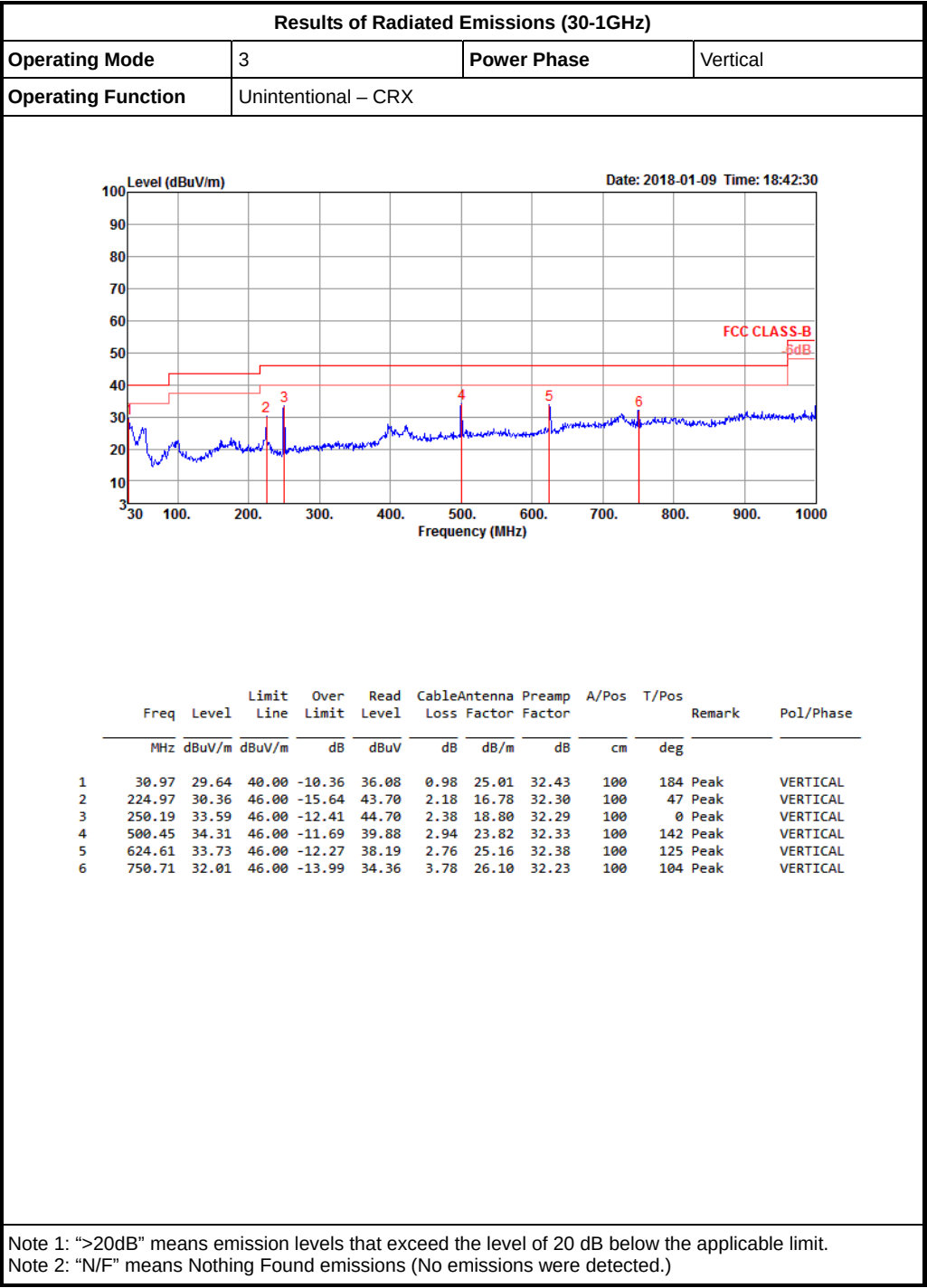
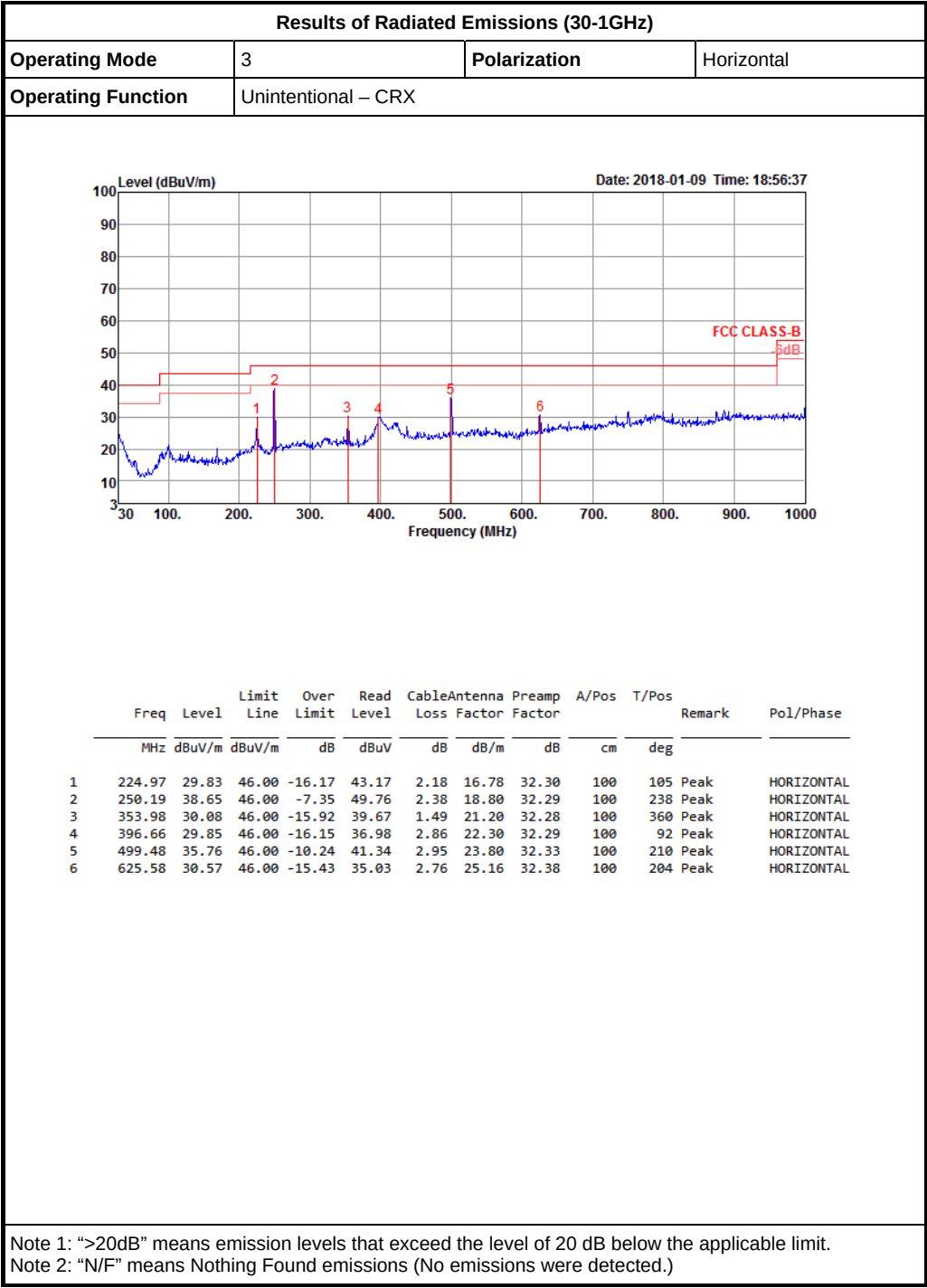
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

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



Results of Radiated Emissions  
(30-1GHz and Unintentional 1GHz~5th Harmonic)

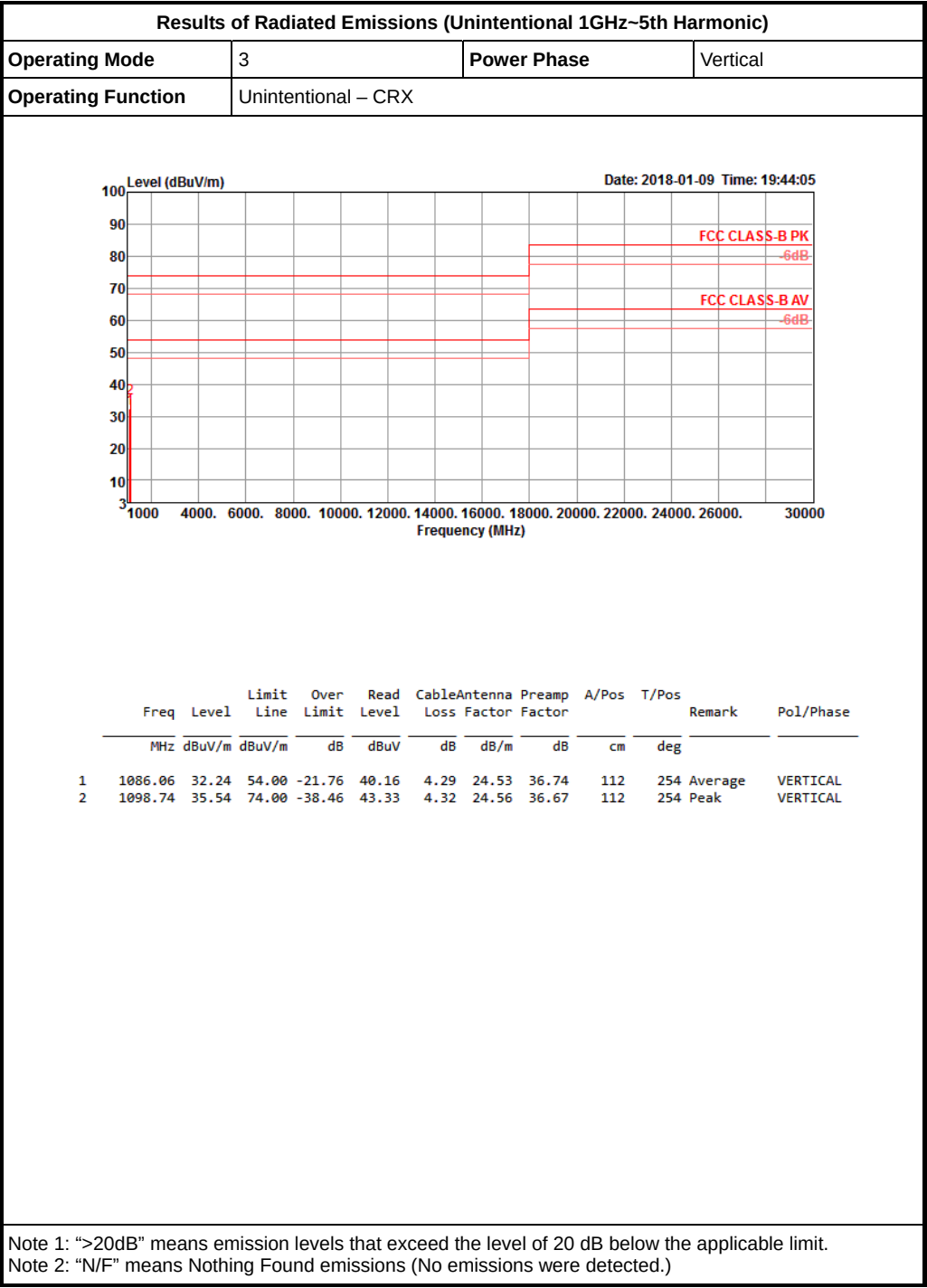
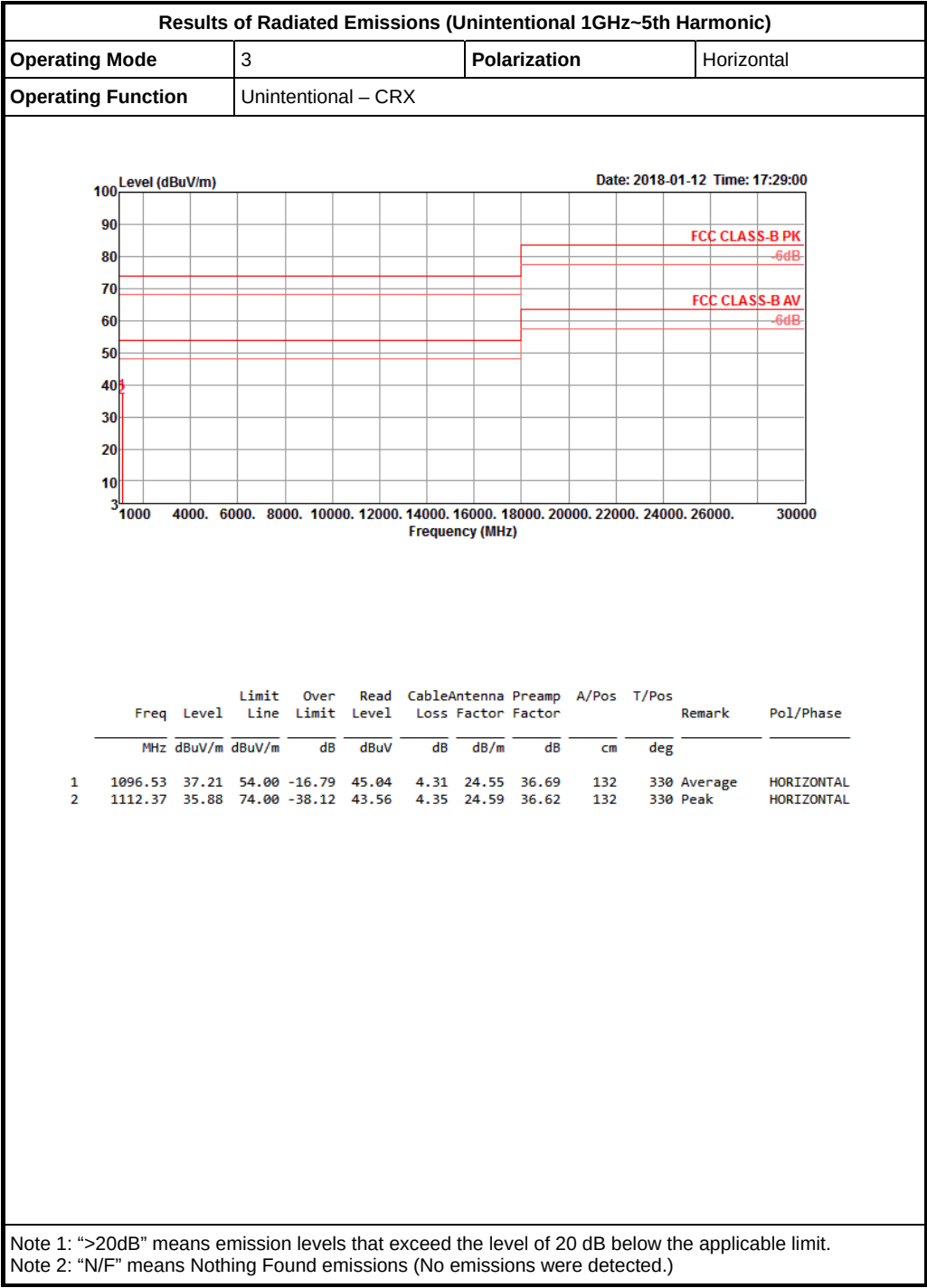
Appendix F.1





Results of Radiated Emissions  
(30-1GHz and Unintentional 1GHz~5th Harmonic)

Appendix F.1



## Radiated Emissions (1GHz~10<sup>th</sup> Harmonic)

For Antenna 1

<For Non-Beamforming Mode>

|                |                                                           |
|----------------|-----------------------------------------------------------|
| Configurations | IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|-----------------------------------------------------------|

### Horizontal

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4823.87 | 46.87  | 74.00      | -27.13     | 41.85      | 5.67              | 31.09          | 31.74         | 241   | 239   | Peak    | HORIZONTAL |
| 2 | 4824.05 | 35.89  | 54.00      | -18.11     | 30.87      | 5.67              | 31.09          | 31.74         | 241   | 239   | Average | HORIZONTAL |

### Vertical

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4824.07 | 38.37  | 54.00      | -15.63     | 33.35      | 5.67              | 31.09          | 31.74         | 172   | 183   | Average | VERTICAL  |
| 2 | 4824.13 | 48.42  | 74.00      | -25.58     | 43.40      | 5.67              | 31.09          | 31.74         | 172   | 183   | Peak    | VERTICAL  |

|                |                                                           |
|----------------|-----------------------------------------------------------|
| Configurations | IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|-----------------------------------------------------------|

## Horizontal

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4873.80 | 48.15  | 74.00      | -25.85     | 43.00      | 5.72              | 31.15          | 31.72         | 172   | 175   | Peak    | HORIZONTAL |
| 2 | 4874.01 | 40.22  | 54.00      | -13.78     | 35.07      | 5.72              | 31.15          | 31.72         | 172   | 175   | Average | HORIZONTAL |

## Vertical

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4874.02 | 43.85  | 54.00      | -10.15     | 38.70      | 5.72              | 31.15          | 31.72         | 148   | 186   | Average | VERTICAL  |
| 2 | 4874.14 | 49.69  | 74.00      | -24.31     | 44.54      | 5.72              | 31.15          | 31.72         | 148   | 186   | Peak    | VERTICAL  |

|                |                                                            |
|----------------|------------------------------------------------------------|
| Configurations | IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|------------------------------------------------------------|

Horizontal

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |            |
| 1 | 4923.98 | 33.93  | 54.00         | -20.07        | 28.65         | 5.76                        | 31.22            | 31.70 | 133   | 53     | Average   | HORIZONTAL |
| 2 | 4924.11 | 46.21  | 74.00         | -27.79        | 40.93         | 5.76                        | 31.22            | 31.70 | 133   | 53     | Peak      | HORIZONTAL |

Vertical

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 4923.96 | 36.30  | 54.00         | -17.70        | 31.02         | 5.76                        | 31.22            | 31.70 | 151   | 174    | Average   | VERTICAL |
| 2 | 4924.16 | 46.71  | 74.00         | -27.29        | 41.43         | 5.76                        | 31.22            | 31.70 | 151   | 174    | Peak      | VERTICAL |

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11g CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|-----------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Antenna<br>Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|----------------------|-------------------|------------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m              | dB               | cm    | deg   |         |            |
| 1 | 4823.76 | 45.38  | 74.00         | -28.62        | 40.36         | 5.67                 | 31.09             | 31.74            | 214   | 179   | Peak    | HORIZONTAL |
| 2 | 4826.37 | 32.57  | 54.00         | -21.43        | 27.52         | 5.68                 | 31.11             | 31.74            | 214   | 179   | Average | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Antenna<br>Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|----------------------|-------------------|------------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m              | dB               | cm    | deg   |         |           |
| 1 | 4822.38 | 32.63  | 54.00         | -21.37        | 27.61         | 5.67                 | 31.09             | 31.74            | 148   | 269   | Average | VERTICAL  |
| 2 | 4824.04 | 45.33  | 74.00         | -28.67        | 40.31         | 5.67                 | 31.09             | 31.74            | 148   | 269   | Peak    | VERTICAL  |

|                |                                                           |
|----------------|-----------------------------------------------------------|
| Configurations | IEEE 802.11g CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|-----------------------------------------------------------|

## Horizontal

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4873.98 | 32.82  | 54.00      | -21.18     | 27.67      | 5.72              | 31.15          | 31.72         | 169   | 66    | Average | HORIZONTAL |
| 2 | 4874.60 | 45.41  | 74.00      | -28.59     | 40.26      | 5.72              | 31.15          | 31.72         | 169   | 66    | Peak    | HORIZONTAL |

## Vertical

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4871.65 | 46.24  | 74.00      | -27.76     | 41.09      | 5.72              | 31.15          | 31.72         | 190   | 134   | Peak    | VERTICAL  |
| 2 | 4875.06 | 32.92  | 54.00      | -21.08     | 27.77      | 5.72              | 31.15          | 31.72         | 190   | 134   | Average | VERTICAL  |

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Antenna<br>Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|----------------------|-------------------|------------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m              | dB               | cm    | deg   |         |            |
| 1 | 4923.71 | 45.74  | 74.00         | -28.26        | 40.46         | 5.76                 | 31.22             | 31.70            | 187   | 197   | Peak    | HORIZONTAL |
| 2 | 4925.90 | 32.88  | 54.00         | -21.12        | 27.59         | 5.76                 | 31.22             | 31.69            | 187   | 197   | Average | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Antenna<br>Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|----------------------|-------------------|------------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m              | dB               | cm    | deg   |         |           |
| 1 | 4925.20 | 46.59  | 74.00         | -27.41        | 41.30         | 5.76                 | 31.22             | 31.69            | 203   | 248   | Peak    | VERTICAL  |
| 2 | 4925.73 | 32.85  | 54.00         | -21.15        | 27.56         | 5.76                 | 31.22             | 31.69            | 203   | 248   | Average | VERTICAL  |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Antenna<br>Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|----------------------|-------------------|------------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m              | dB               | cm    | deg   |         |            |
| 1 | 4823.88 | 45.70  | 74.00         | -28.30        | 40.68         | 5.67                 | 31.09             | 31.74            | 236   | 210   | Peak    | HORIZONTAL |
| 2 | 4825.55 | 32.63  | 54.00         | -21.37        | 27.58         | 5.68                 | 31.11             | 31.74            | 236   | 210   | Average | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Antenna<br>Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|----------------------|-------------------|------------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m              | dB               | cm    | deg   |         |           |
| 1 | 4823.13 | 45.40  | 74.00         | -28.60        | 40.38         | 5.67                 | 31.09             | 31.74            | 173   | 288   | Peak    | VERTICAL  |
| 2 | 4823.28 | 32.89  | 54.00         | -21.11        | 27.87         | 5.67                 | 31.09             | 31.74            | 173   | 288   | Average | VERTICAL  |

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Antenna<br>Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|----------------------|-------------------|------------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m              | dB               | cm    | deg   |         |            |
| 1 | 4875.08 | 32.84  | 54.00         | -21.16        | 27.69         | 5.72                 | 31.15             | 31.72            | 177   | 288   | Average | HORIZONTAL |
| 2 | 4875.64 | 45.71  | 74.00         | -28.29        | 40.56         | 5.72                 | 31.15             | 31.72            | 177   | 288   | Peak    | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Antenna<br>Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|----------------------|-------------------|------------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m              | dB               | cm    | deg   |         |           |
| 1 | 4873.17 | 45.66  | 74.00         | -28.34        | 40.51         | 5.72                 | 31.15             | 31.72            | 186   | 212   | Peak    | VERTICAL  |
| 2 | 4873.99 | 33.32  | 54.00         | -20.68        | 28.17         | 5.72                 | 31.15             | 31.72            | 186   | 212   | Average | VERTICAL  |

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|-----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark     | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|------------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg        |            |
| 1 | 4923.93 | 32.95  | 54.00         | -21.05        | 27.67         | 5.76                        | 31.22            | 31.70 | 188   | 53 Average | HORIZONTAL |
| 2 | 4924.84 | 45.93  | 74.00         | -28.07        | 40.65         | 5.76                        | 31.22            | 31.70 | 188   | 53 Peak    | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark      | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|-------------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg         |           |
| 1 | 4924.27 | 46.29  | 74.00         | -27.71        | 41.01         | 5.76                        | 31.22            | 31.70 | 162   | 175 Peak    | VERTICAL  |
| 2 | 4926.16 | 33.01  | 54.00         | -20.99        | 27.72         | 5.76                        | 31.22            | 31.69 | 162   | 175 Average | VERTICAL  |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |            |
| 1 | 4841.56 | 32.79  | 54.00         | -21.21        | 27.72         | 5.69                        | 31.12            | 31.74 | 176   | 169    | Average   | HORIZONTAL |
| 2 | 4843.42 | 45.68  | 74.00         | -28.32        | 40.61         | 5.69                        | 31.12            | 31.74 | 176   | 169    | Peak      | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 4841.65 | 32.87  | 54.00         | -21.13        | 27.80         | 5.69                        | 31.12            | 31.74 | 190   | 246    | Average   | VERTICAL |
| 2 | 4842.16 | 45.64  | 74.00         | -28.36        | 40.57         | 5.69                        | 31.12            | 31.74 | 190   | 246    | Peak      | VERTICAL |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4872.08 | 33.08  | 54.00      | -20.92     | 27.93      | 5.72              | 31.15          | 31.72         | 190   | 296   | Average | HORIZONTAL |
| 2 | 4874.93 | 46.19  | 74.00      | -27.81     | 41.04      | 5.72              | 31.15          | 31.72         | 190   | 296   | Peak    | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4872.54 | 33.00  | 54.00      | -21.00     | 27.85      | 5.72              | 31.15          | 31.72         | 148   | 277   | Average | VERTICAL  |
| 2 | 4875.54 | 46.19  | 74.00      | -27.81     | 41.04      | 5.72              | 31.15          | 31.72         | 148   | 277   | Peak    | VERTICAL  |

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|----------------------------------------------------------------------------|

## Horizontal

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4902.05 | 33.02  | 54.00      | -20.98     | 27.79      | 5.74              | 31.19          | 31.70         | 166   | 168   | Average | HORIZONTAL |
| 2 | 4905.96 | 45.67  | 74.00      | -28.33     | 40.44      | 5.74              | 31.19          | 31.70         | 166   | 168   | Peak    | HORIZONTAL |

## Vertical

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4902.16 | 33.11  | 54.00      | -20.89     | 27.88      | 5.74              | 31.19          | 31.70         | 208   | 216   | Average | VERTICAL  |
| 2 | 4905.94 | 46.11  | 74.00      | -27.89     | 40.88      | 5.74              | 31.19          | 31.70         | 208   | 216   | Peak    | VERTICAL  |

&lt;For Beamforming Mode&gt;

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|----------------------------------------------------------------------------|

Horizontal

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |            |
| 1 | 4824.02 | 48.11  | 74.00         | -25.89        | 41.80         | 7.04                        | 34.17            | 34.90 | 179   | 274    | Peak      | HORIZONTAL |
| 2 | 4824.07 | 34.96  | 54.00         | -19.04        | 28.65         | 7.04                        | 34.17            | 34.90 | 179   | 274    | Average   | HORIZONTAL |

Vertical

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 4823.28 | 48.27  | 74.00         | -25.73        | 41.96         | 7.04                        | 34.17            | 34.90 | 195   | 321    | Peak      | VERTICAL |
| 2 | 4824.55 | 35.92  | 54.00         | -18.08        | 29.61         | 7.04                        | 34.17            | 34.90 | 195   | 321    | Average   | VERTICAL |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4873.96 | 48.95  | 74.00      | -25.05     | 42.33      | 7.18              | 34.34          | 34.90         | 207   | 257   | Peak    | HORIZONTAL |
| 2 | 4874.02 | 43.21  | 54.00      | -10.79     | 36.59      | 7.18              | 34.34          | 34.90         | 207   | 248   | Average | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4874.01 | 43.48  | 54.00      | -10.52     | 36.86      | 7.18              | 34.34          | 34.90         | 216   | 193   | Average | VERTICAL  |
| 2 | 4874.08 | 50.85  | 74.00      | -23.15     | 44.23      | 7.18              | 34.34          | 34.90         | 216   | 193   | Peak    | VERTICAL  |

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|-----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |            |
| 1 | 4923.28 | 48.89  | 74.00         | -25.11        | 42.05         | 7.28                        | 34.46            | 34.90 | 184   | 226    | Peak      | HORIZONTAL |
| 2 | 4924.22 | 35.95  | 54.00         | -18.05        | 29.04         | 7.31                        | 34.50            | 34.90 | 184   | 226    | Average   | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 4923.04 | 49.12  | 74.00         | -24.88        | 42.28         | 7.28                        | 34.46            | 34.90 | 212   | 117    | Peak      | VERTICAL |
| 2 | 4923.95 | 36.24  | 54.00         | -17.76        | 29.33         | 7.31                        | 34.50            | 34.90 | 212   | 117    | Average   | VERTICAL |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4843.04 | 35.06  | 54.00      | -18.94     | 28.60      | 7.11              | 34.25          | 34.90         | 193   | 260   | Average | HORIZONTAL |
| 2 | 4843.24 | 48.40  | 74.00      | -25.60     | 41.94      | 7.11              | 34.25          | 34.90         | 193   | 260   | Peak    | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4843.06 | 35.00  | 54.00      | -19.00     | 28.54      | 7.11              | 34.25          | 34.90         | 215   | 360   | Average | VERTICAL  |
| 2 | 4843.79 | 48.49  | 74.00      | -25.51     | 42.03      | 7.11              | 34.25          | 34.90         | 215   | 360   | Peak    | VERTICAL  |

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |            |
| 1 | 4873.36 | 49.12  | 74.00         | -24.88        | 42.50         | 7.18                        | 34.34            | 34.90 | 167   | 148    | Peak      | HORIZONTAL |
| 2 | 4874.85 | 35.63  | 54.00         | -18.37        | 29.01         | 7.18                        | 34.34            | 34.90 | 167   | 148    | Average   | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 4873.39 | 49.77  | 74.00         | -24.23        | 43.15         | 7.18                        | 34.34            | 34.90 | 135   | 60     | Peak      | VERTICAL |
| 2 | 4873.75 | 35.87  | 54.00         | -18.13        | 29.25         | 7.18                        | 34.34            | 34.90 | 135   | 60     | Average   | VERTICAL |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4904.05 | 35.91  | 54.00      | -18.09     | 29.15      | 7.24              | 34.42          | 34.90         | 165   | 210   | Average | HORIZONTAL |
| 2 | 4904.11 | 49.58  | 74.00      | -24.42     | 42.82      | 7.24              | 34.42          | 34.90         | 165   | 210   | Peak    | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4903.59 | 36.91  | 54.00      | -17.09     | 30.15      | 7.24              | 34.42          | 34.90         | 176   | 255   | Average | VERTICAL  |
| 2 | 4904.04 | 48.82  | 74.00      | -25.18     | 42.06      | 7.24              | 34.42          | 34.90         | 176   | 255   | Peak    | VERTICAL  |

For Antenna 2

<For Non-Beamforming Mode>

|                |                                                           |
|----------------|-----------------------------------------------------------|
| Configurations | IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|-----------------------------------------------------------|

Horizontal

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB         | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4823.98 | 53.07  | 74.00      | -20.93     | 47.19      | 7.58       | 32.82          | 34.52         | 227   | 4     | Peak    | HORIZONTAL |
| 2 | 4824.01 | 45.91  | 54.00      | -8.09      | 40.03      | 7.58       | 32.82          | 34.52         | 227   | 4     | Average | HORIZONTAL |

Vertical

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB         | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4823.93 | 51.36  | 74.00      | -22.64     | 45.48      | 7.58       | 32.82          | 34.52         | 221   | 351   | Peak    | VERTICAL  |
| 2 | 4824.06 | 43.25  | 54.00      | -10.75     | 37.37      | 7.58       | 32.82          | 34.52         | 221   | 351   | Average | VERTICAL  |

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|-----------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |            |
| 1 | 4874.01 | 52.73  | 74.00         | -21.27        | 46.73         | 7.60                        | 32.91            | 34.51 | 236   | 359    | Peak       |
| 2 | 4874.06 | 47.02  | 54.00         | -6.98         | 41.02         | 7.60                        | 32.91            | 34.51 | 236   | 359    | Average    |
|   |         |        |               |               |               |                             |                  |       |       |        | HORIZONTAL |
|   |         |        |               |               |               |                             |                  |       |       |        | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |
| 1 | 4873.89 | 49.91  | 74.00         | -24.09        | 43.91         | 7.60                        | 32.91            | 34.51 | 210   | 17     | Peak      |
| 2 | 4874.01 | 42.44  | 54.00         | -11.56        | 36.44         | 7.60                        | 32.91            | 34.51 | 210   | 17     | Average   |
|   |         |        |               |               |               |                             |                  |       |       |        | VERTICAL  |
|   |         |        |               |               |               |                             |                  |       |       |        | VERTICAL  |

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark    | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg       |            |
| 1 | 4923.91 | 48.15  | 74.00         | -25.85        | 42.03         | 7.62                        | 32.99            | 34.49 | 214   | 6 Peak    | HORIZONTAL |
| 2 | 4924.06 | 38.04  | 54.00         | -15.96        | 31.92         | 7.62                        | 32.99            | 34.49 | 214   | 6 Average | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark      | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|-------------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg         |           |
| 1 | 4924.06 | 36.49  | 54.00         | -17.51        | 30.37         | 7.62                        | 32.99            | 34.49 | 180   | 355 Average | VERTICAL  |
| 2 | 4924.18 | 48.23  | 74.00         | -25.77        | 42.11         | 7.62                        | 32.99            | 34.49 | 180   | 355 Peak    | VERTICAL  |

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11g CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|-----------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamplifier<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m                   | dB    | cm    | deg    |           |
| 1 | 4815.96 | 35.13  | 54.00         | -18.87        | 29.25         | 7.58                        | 32.82                  | 34.52 | 249   | 286    | Average   |
| 2 | 4818.60 | 48.17  | 74.00         | -25.83        | 42.29         | 7.58                        | 32.82                  | 34.52 | 249   | 333    | Peak      |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamplifier<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m                   | dB    | cm    | deg    |           |
| 1 | 4814.28 | 35.10  | 54.00         | -18.90        | 29.22         | 7.58                        | 32.82                  | 34.52 | 152   | 87     | Average   |
| 2 | 4816.40 | 48.00  | 74.00         | -26.00        | 42.12         | 7.58                        | 32.82                  | 34.52 | 152   | 87     | Peak      |

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11g CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|-----------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamplifier<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m                   | dB    | cm    | deg    |           |
| 1 | 4869.24 | 35.04  | 54.00         | -18.96        | 29.04         | 7.60                        | 32.91                  | 34.51 | 213   | 140    | Average   |
| 2 | 4871.48 | 47.75  | 74.00         | -26.25        | 41.75         | 7.60                        | 32.91                  | 34.51 | 213   | 140    | Peak      |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamplifier<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m                   | dB    | cm    | deg    |           |          |
| 1 | 4865.84 | 47.49  | 74.00         | -26.51        | 41.53         | 7.59                        | 32.88                  | 34.51 | 173   | 290    | Peak      | VERTICAL |
| 2 | 4871.56 | 35.31  | 54.00         | -18.69        | 29.31         | 7.60                        | 32.91                  | 34.51 | 173   | 290    | Average   | VERTICAL |

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |            |
| 1 | 4915.64 | 47.07  | 74.00         | -26.93        | 40.98         | 7.61                        | 32.97            | 34.49 | 191   | 220    | Peak      | HORIZONTAL |
| 2 | 4931.56 | 34.69  | 54.00         | -19.31        | 28.57         | 7.62                        | 32.99            | 34.49 | 191   | 220    | Average   | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 4918.96 | 47.68  | 74.00         | -26.32        | 41.59         | 7.61                        | 32.97            | 34.49 | 219   | 100    | Peak      | VERTICAL |
| 2 | 4932.32 | 34.73  | 54.00         | -19.27        | 28.61         | 7.62                        | 32.99            | 34.49 | 219   | 100    | Average   | VERTICAL |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamplifier<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m                   | dB    | cm    | deg    |           |
| 1 | 4825.52 | 35.31  | 54.00         | -18.69        | 29.41         | 7.58                        | 32.84                  | 34.52 | 303   | 154    | Average   |
| 2 | 4832.52 | 48.31  | 74.00         | -25.69        | 42.41         | 7.58                        | 32.84                  | 34.52 | 303   | 154    | Peak      |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamplifier<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m                   | dB    | cm    | deg    |           |          |
| 1 | 4815.44 | 48.58  | 74.00         | -25.42        | 42.70         | 7.58                        | 32.82                  | 34.52 | 175   | 306    | Peak      | VERTICAL |
| 2 | 4821.00 | 35.16  | 54.00         | -18.84        | 29.28         | 7.58                        | 32.82                  | 34.52 | 175   | 306    | Average   | VERTICAL |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 4864.80 | 47.44  | 74.00  | -26.56 | 41.48 | 7.59         | 32.88  | 34.51 | 132   | 285    | Peak      |
| 2 | 4873.36 | 36.14  | 54.00  | -17.86 | 30.14 | 7.60         | 32.91  | 34.51 | 132   | 285    | Average   |

**Vertical**

|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 4875.32 | 35.08  | 54.00  | -18.92 | 29.08 | 7.60         | 32.91  | 34.51 | 206   | 110    | Average   |
| 2 | 4878.28 | 47.60  | 74.00  | -26.40 | 41.59 | 7.60         | 32.91  | 34.50 | 206   | 110    | Peak      |

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|-----------------------------------------------------------------------------|

## Horizontal

|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 4916.72 | 47.42  | 74.00  | -26.58 | 41.33 | 7.61         | 32.97  | 34.49 | 262   | 93     | Peak      |
| 2 | 4920.84 | 34.75  | 54.00  | -19.25 | 28.66 | 7.61         | 32.97  | 34.49 | 262   | 93     | Average   |

## Vertical

|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 4920.88 | 34.66  | 54.00  | -19.34 | 28.57 | 7.61         | 32.97  | 34.49 | 310   | 278    | Average   |
| 2 | 4921.36 | 47.03  | 74.00  | -26.97 | 40.94 | 7.61         | 32.97  | 34.49 | 310   | 278    | Peak      |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |
| 1 | 4841.32 | 35.21  | 54.00         | -18.79        | 29.28         | 7.59                        | 32.86            | 34.52 | 261   | 302    | Average   |
| 2 | 4846.92 | 47.52  | 74.00         | -26.48        | 41.58         | 7.59                        | 32.86            | 34.51 | 261   | 302    | Peak      |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |
| 1 | 4835.28 | 35.23  | 54.00         | -18.77        | 29.33         | 7.58                        | 32.84            | 34.52 | 282   | 183    | Average   |
| 2 | 4846.76 | 48.04  | 74.00         | -25.96        | 42.10         | 7.59                        | 32.86            | 34.51 | 282   | 183    | Peak      |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |
| 1 | 4872.52 | 35.16  | 54.00         | -18.84        | 29.16         | 7.60                        | 32.91            | 34.51 | 179   | 316    | Average   |
| 2 | 4876.00 | 47.97  | 74.00         | -26.03        | 41.97         | 7.60                        | 32.91            | 34.51 | 179   | 316    | Peak      |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 4864.64 | 47.90  | 74.00         | -26.10        | 41.94         | 7.59                        | 32.88            | 34.51 | 109   | 178    | Peak      | VERTICAL |
| 2 | 4875.24 | 35.07  | 54.00         | -18.93        | 29.07         | 7.60                        | 32.91            | 34.51 | 109   | 178    | Average   | VERTICAL |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |
| 1 | 4898.72 | 34.94  | 54.00         | -19.06        | 28.88         | 7.61                        | 32.95            | 34.50 | 291   | 16     | Average   |
| 2 | 4904.80 | 47.36  | 74.00         | -26.64        | 41.30         | 7.61                        | 32.95            | 34.50 | 291   | 16     | Peak      |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |
| 1 | 4897.96 | 35.06  | 54.00         | -18.94        | 29.00         | 7.61                        | 32.95            | 34.50 | 105   | 336    | Average   |
| 2 | 4900.04 | 47.30  | 74.00         | -26.70        | 41.24         | 7.61                        | 32.95            | 34.50 | 105   | 336    | Peak      |

&lt;For Beamforming Mode&gt;

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|----------------------------------------------------------------------------|

*Horizontal*

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |            |
| 1 | 4823.22 | 34.82  | 54.00         | -19.18        | 28.51         | 7.04                        | 34.17            | 34.90 | 243   | 178    | Average   | HORIZONTAL |
| 2 | 4823.38 | 47.88  | 74.00         | -26.12        | 41.57         | 7.04                        | 34.17            | 34.90 | 243   | 178    | Peak      | HORIZONTAL |

*Vertical*

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 4824.58 | 48.80  | 74.00         | -25.20        | 42.49         | 7.04                        | 34.17            | 34.90 | 158   | 252    | Peak      | VERTICAL |
| 2 | 4824.95 | 35.91  | 54.00         | -18.09        | 29.60         | 7.04                        | 34.17            | 34.90 | 158   | 252    | Average   | VERTICAL |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4873.98 | 37.31  | 54.00      | -16.69     | 30.69      | 7.18              | 34.34          | 34.90         | 133   | 284   | Average | HORIZONTAL |
| 2 | 4874.35 | 47.19  | 74.00      | -26.81     | 40.57      | 7.18              | 34.34          | 34.90         | 133   | 284   | Peak    | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4873.97 | 36.59  | 54.00      | -17.41     | 29.97      | 7.18              | 34.34          | 34.90         | 171   | 306   | Average | VERTICAL  |
| 2 | 4874.48 | 47.20  | 74.00      | -26.80     | 40.58      | 7.18              | 34.34          | 34.90         | 171   | 306   | Peak    | VERTICAL  |

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|-----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |            |
| 1 | 4924.04 | 49.71  | 74.00         | -24.29        | 42.80         | 7.31                        | 34.50            | 34.90 | 219   | 36     | Peak       |
| 2 | 4924.15 | 35.91  | 54.00         | -18.09        | 29.00         | 7.31                        | 34.50            | 34.90 | 219   | 36     | Average    |
|   |         |        |               |               |               |                             |                  |       |       |        | HORIZONTAL |
|   |         |        |               |               |               |                             |                  |       |       |        | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |
| 1 | 4923.00 | 36.03  | 54.00         | -17.97        | 29.19         | 7.28                        | 34.46            | 34.90 | 118   | 239    | Average   |
| 2 | 4924.47 | 49.11  | 74.00         | -24.89        | 42.20         | 7.31                        | 34.50            | 34.90 | 118   | 239    | Peak      |
|   |         |        |               |               |               |                             |                  |       |       |        | VERTICAL  |
|   |         |        |               |               |               |                             |                  |       |       |        | VERTICAL  |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>Configurations</b> | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|-----------------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |            |
| 1 | 4843.84 | 48.12  | 74.00         | -25.88        | 41.66         | 7.11                        | 34.25            | 34.90 | 215   | 324    | Peak       |
| 2 | 4843.93 | 34.87  | 54.00         | -19.13        | 28.41         | 7.11                        | 34.25            | 34.90 | 215   | 324    | Average    |
|   |         |        |               |               |               |                             |                  |       |       |        | HORIZONTAL |
|   |         |        |               |               |               |                             |                  |       |       |        | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |
| 1 | 4843.08 | 35.03  | 54.00         | -18.97        | 28.57         | 7.11                        | 34.25            | 34.90 | 187   | 257    | Average   |
| 2 | 4843.10 | 48.34  | 74.00         | -25.66        | 41.88         | 7.11                        | 34.25            | 34.90 | 187   | 257    | Peak      |
|   |         |        |               |               |               |                             |                  |       |       |        | VERTICAL  |
|   |         |        |               |               |               |                             |                  |       |       |        | VERTICAL  |

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|----------------------------------------------------------------------------|

## Horizontal

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |            |
| 1 | 4873.77 | 48.88  | 74.00      | -25.12     | 42.26      | 7.18              | 34.34          | 34.90         | 193   | 246   | Peak    | HORIZONTAL |
| 2 | 4874.60 | 35.71  | 54.00      | -18.29     | 29.09      | 7.18              | 34.34          | 34.90         | 193   | 246   | Average | HORIZONTAL |

## Vertical

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark  | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|----------------|---------------|-------|-------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m           | dB            | cm    | deg   |         |           |
| 1 | 4873.14 | 49.06  | 74.00      | -24.94     | 42.44      | 7.18              | 34.34          | 34.90         | 138   | 265   | Peak    | VERTICAL  |
| 2 | 4874.97 | 35.79  | 54.00      | -18.21     | 29.17      | 7.18              | 34.34          | 34.90         | 138   | 265   | Average | VERTICAL  |

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|----------------------------------------------------------------------------|

**Horizontal**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |            |
| 1 | 4903.44 | 49.56  | 74.00         | -24.44        | 42.80         | 7.24                        | 34.42            | 34.90 | 150   | 129    | Peak      | HORIZONTAL |
| 2 | 4903.67 | 35.92  | 54.00         | -18.08        | 29.16         | 7.24                        | 34.42            | 34.90 | 150   | 129    | Average   | HORIZONTAL |

**Vertical**

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |          |
| 1 | 4904.37 | 35.87  | 54.00         | -18.13        | 29.11         | 7.24                        | 34.42            | 34.90 | 167   | 163    | Average   | VERTICAL |
| 2 | 4904.70 | 49.26  | 74.00         | -24.74        | 42.50         | 7.24                        | 34.42            | 34.90 | 167   | 163    | Peak      | VERTICAL |

**Note:**

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

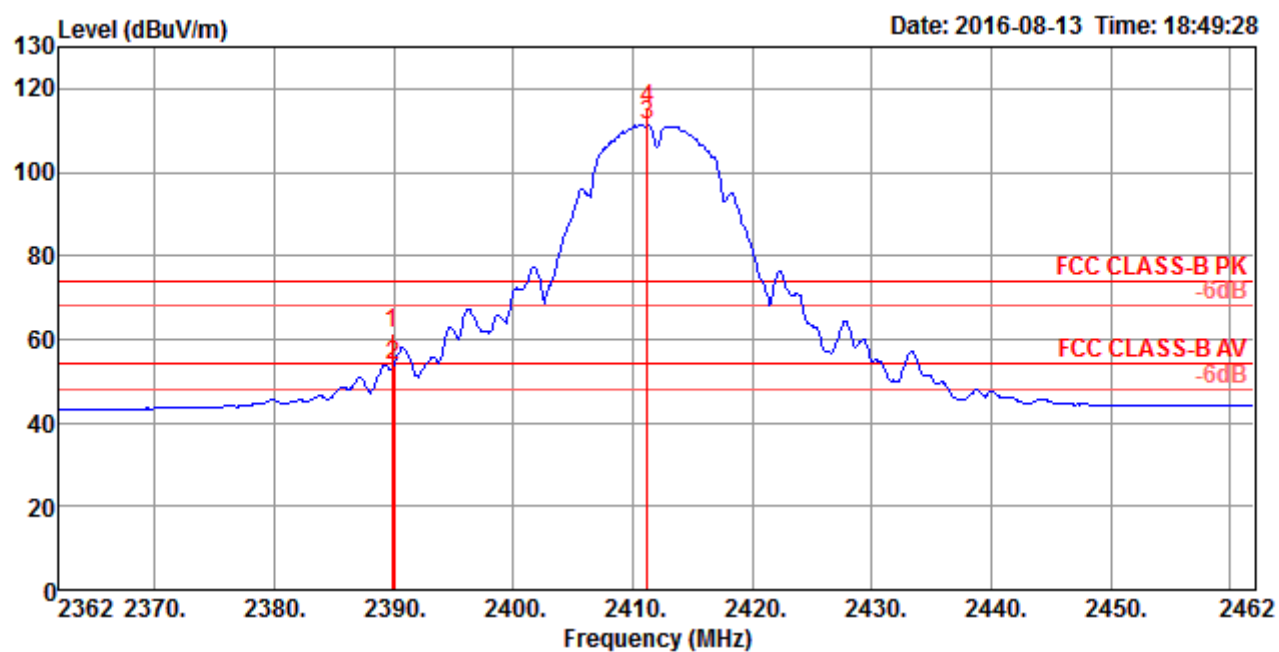
## Band Edge Emissions

For Antenna 1

&lt;For Non-Beamforming Mode&gt;

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| Configurations | IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|------------------------------------------------------------------|

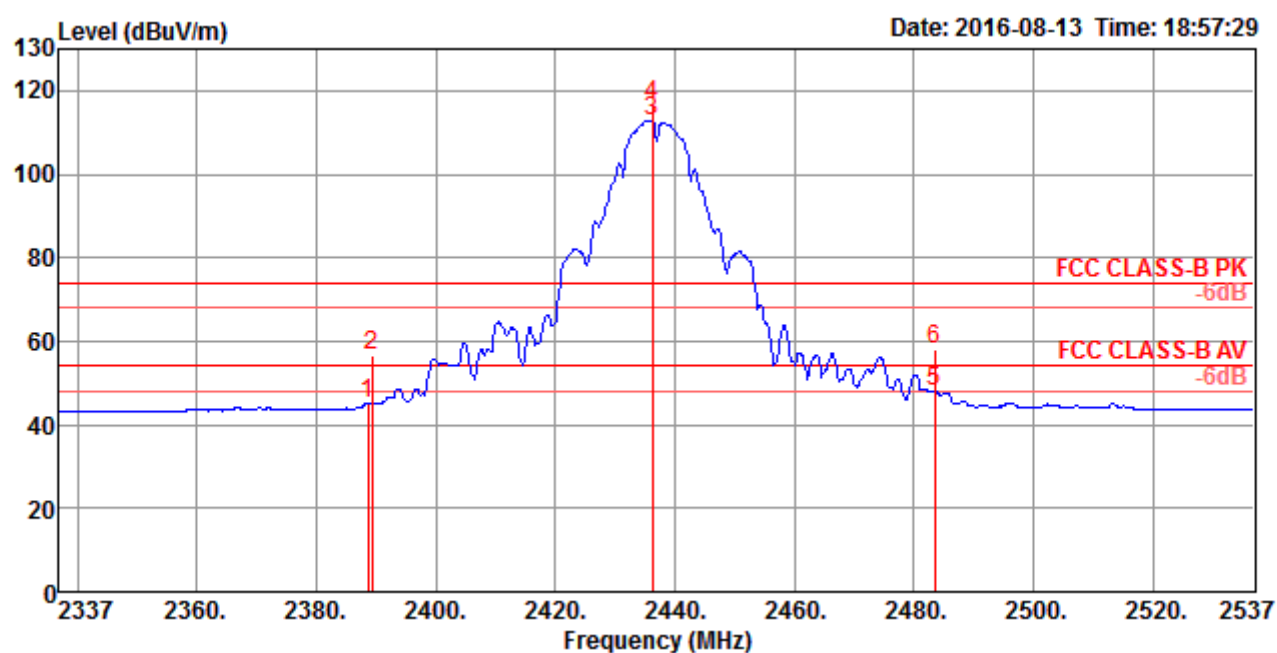
Channel 1



|     | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|-------|-------|--------|-----------|
|     | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB    | cm    | deg    |           |
| 1   | 2389.80 | 61.36  | 74.00         | -12.64        | 30.10         | 4.03                        | 27.23            | 0.00  | 202   | 196    | Peak      |
| 2   | 2390.00 | 53.87  | 54.00         | -0.13         | 22.61         | 4.03                        | 27.23            | 0.00  | 202   | 196    | Average   |
| 3 0 | 2411.20 | 111.47 |               |               | 80.12         | 4.05                        | 27.30            | 0.00  | 202   | 196    | Average   |
| 4 0 | 2411.20 | 115.27 |               |               | 83.92         | 4.05                        | 27.30            | 0.00  | 202   | 196    | Peak      |

Item 3, 4 are the fundamental frequency at 2412 MHz.

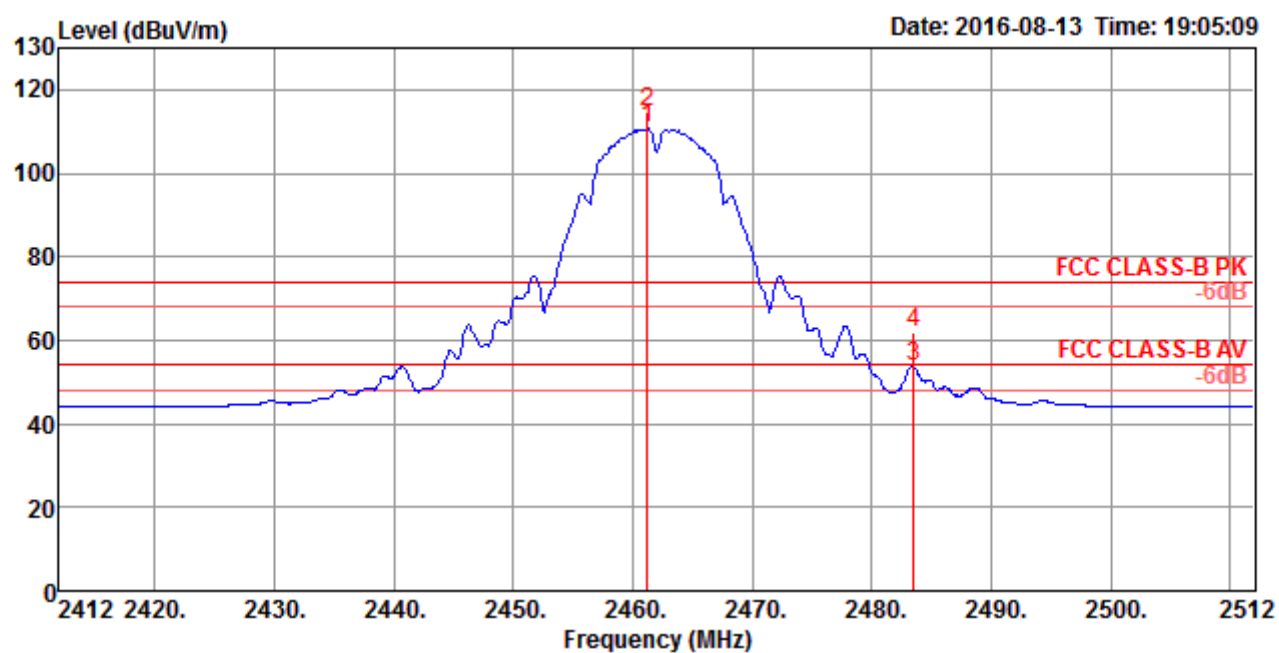
## Channel 6



|     | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1   | 2388.60 | 45.11  | 54.00  | -8.89  | 13.85 | 4.03         | 27.23  | 0.00  | 198   | 206    | Average   |
| 2   | 2389.40 | 56.72  | 74.00  | -17.28 | 25.46 | 4.03         | 27.23  | 0.00  | 198   | 206    | Peak      |
| 3 0 | 2436.20 | 112.86 |        |        | 81.45 | 4.06         | 27.35  | 0.00  | 198   | 206    | Average   |
| 4 0 | 2436.20 | 116.77 |        |        | 85.36 | 4.06         | 27.35  | 0.00  | 198   | 206    | Peak      |
| 5   | 2483.50 | 48.11  | 54.00  | -5.89  | 16.54 | 4.10         | 27.47  | 0.00  | 198   | 206    | Average   |
| 6   | 2483.50 | 57.90  | 74.00  | -16.10 | 26.33 | 4.10         | 27.47  | 0.00  | 198   | 206    | Peak      |

Item 3, 4 are the fundamental frequency at 2437 MHz.

## Channel 11

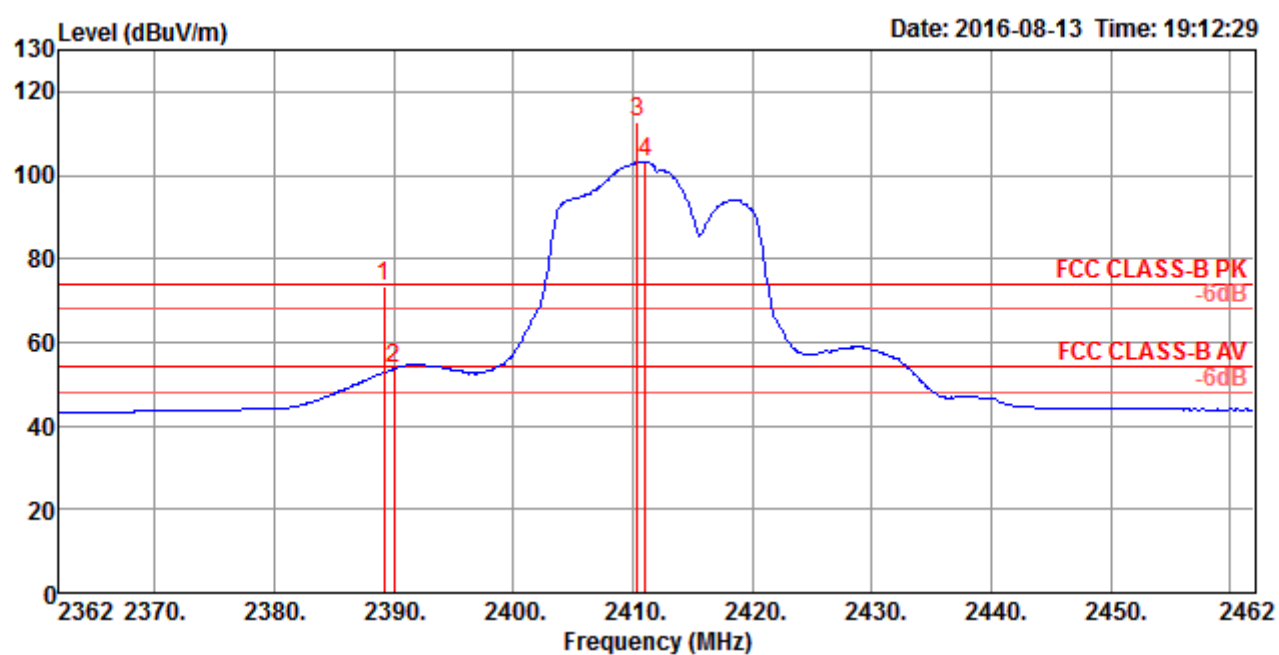


|   |   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preampl | A/Pos  | T/Pos |        |           |          |
|---|---|---------|--------|--------|--------|-------|--------------|---------|--------|-------|--------|-----------|----------|
|   |   |         |        | Line   | Limit  | Level | Loss         | Factor  | Factor |       | Remark | Pol/Phase |          |
|   |   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m    | dB     | cm    | deg    |           |          |
| 1 | 0 | 2461.20 | 110.69 |        |        | 79.19 | 4.08         | 27.42   | 0.00   | 191   | 206    | Average   | VERTICAL |
| 2 | 0 | 2461.20 | 114.58 |        |        | 83.08 | 4.08         | 27.42   | 0.00   | 191   | 206    | Peak      | VERTICAL |
| 3 |   | 2483.50 | 53.54  | 54.00  | -0.46  | 21.97 | 4.10         | 27.47   | 0.00   | 191   | 206    | Average   | VERTICAL |
| 4 |   | 2483.50 | 61.72  | 74.00  | -12.28 | 30.15 | 4.10         | 27.47   | 0.00   | 191   | 206    | Peak      | VERTICAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| Configurations | IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|------------------------------------------------------------------|

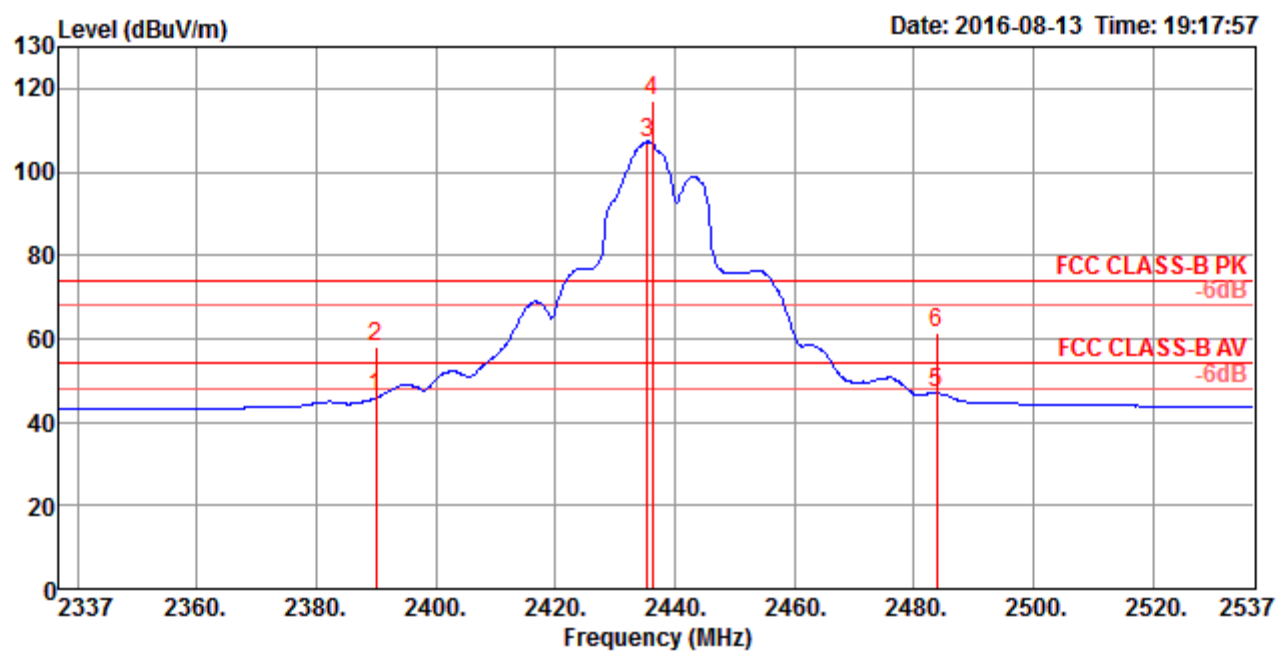
Channel 1



|     | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|
|     | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB    | cm    | deg    |           |
| 1   | 2389.20 | 73.47  | 74.00      | -0.53      | 42.21      | 4.03              | 27.23         | 0.00  | 200   | 220    | Peak      |
| 2   | 2390.00 | 53.74  | 54.00      | -0.26      | 22.48      | 4.03              | 27.23         | 0.00  | 200   | 220    | Average   |
| 3 0 | 2410.40 | 112.84 |            |            | 81.51      | 4.05              | 27.28         | 0.00  | 200   | 220    | Peak      |
| 4 0 | 2411.00 | 103.26 |            |            | 71.93      | 4.05              | 27.28         | 0.00  | 200   | 220    | Average   |

Item 3, 4 are the fundamental frequency at 2412 MHz.

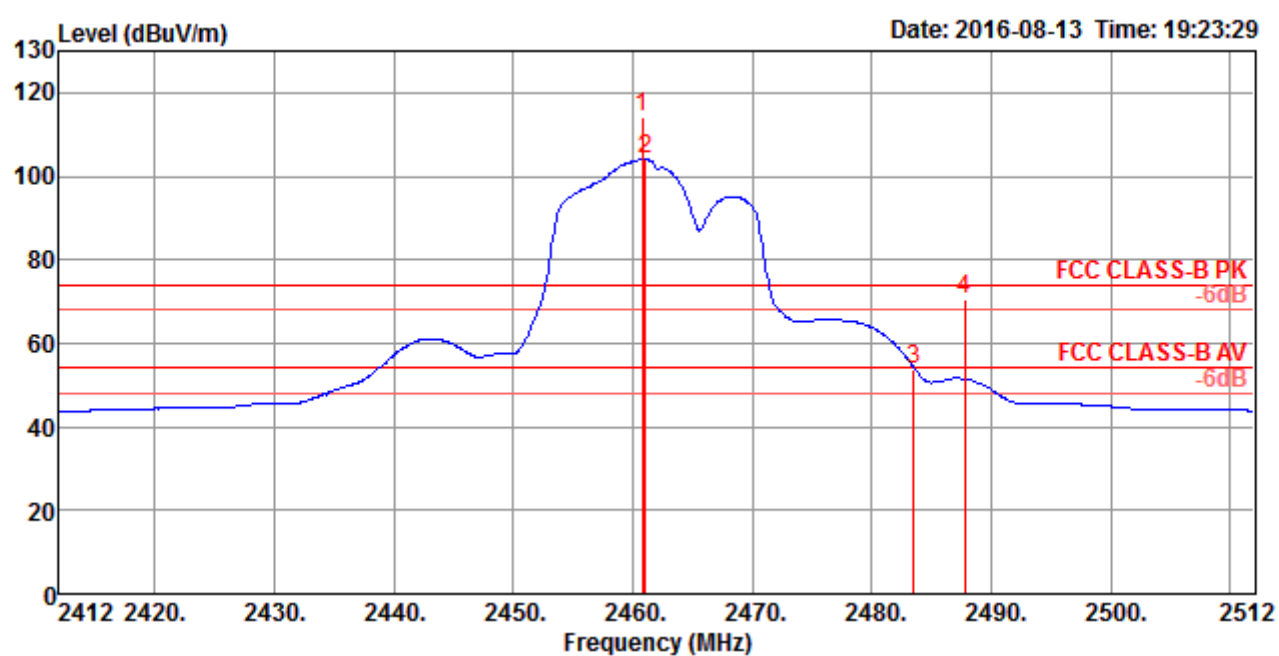
## Channel 6



|     | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Preamp<br>Factor | A/Pos | T/Pos | Remark      | Pol/Phase |
|-----|---------|--------|---------------|---------------|---------------|----------------------|------------------|-------|-------|-------------|-----------|
|     | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m             | dB    | cm    | deg         |           |
| 1   | 2390.00 | 45.89  | 54.00         | -8.11         | 14.63         | 4.03                 | 27.23            | 0.00  | 195   | 232 Average | VERTICAL  |
| 2   | 2390.00 | 58.25  | 74.00         | -15.75        | 26.99         | 4.03                 | 27.23            | 0.00  | 195   | 232 Peak    | VERTICAL  |
| 3 0 | 2435.40 | 107.21 |               |               | 75.80         | 4.06                 | 27.35            | 0.00  | 195   | 232 Average | VERTICAL  |
| 4 0 | 2436.20 | 117.15 |               |               | 85.74         | 4.06                 | 27.35            | 0.00  | 195   | 232 Peak    | VERTICAL  |
| 5   | 2483.80 | 47.03  | 54.00         | -6.97         | 15.46         | 4.10                 | 27.47            | 0.00  | 195   | 232 Average | VERTICAL  |
| 6   | 2483.80 | 61.63  | 74.00         | -12.37        | 30.06         | 4.10                 | 27.47            | 0.00  | 195   | 232 Peak    | VERTICAL  |

Item 3, 4 are the fundamental frequency at 2437 MHz.

## Channel 11



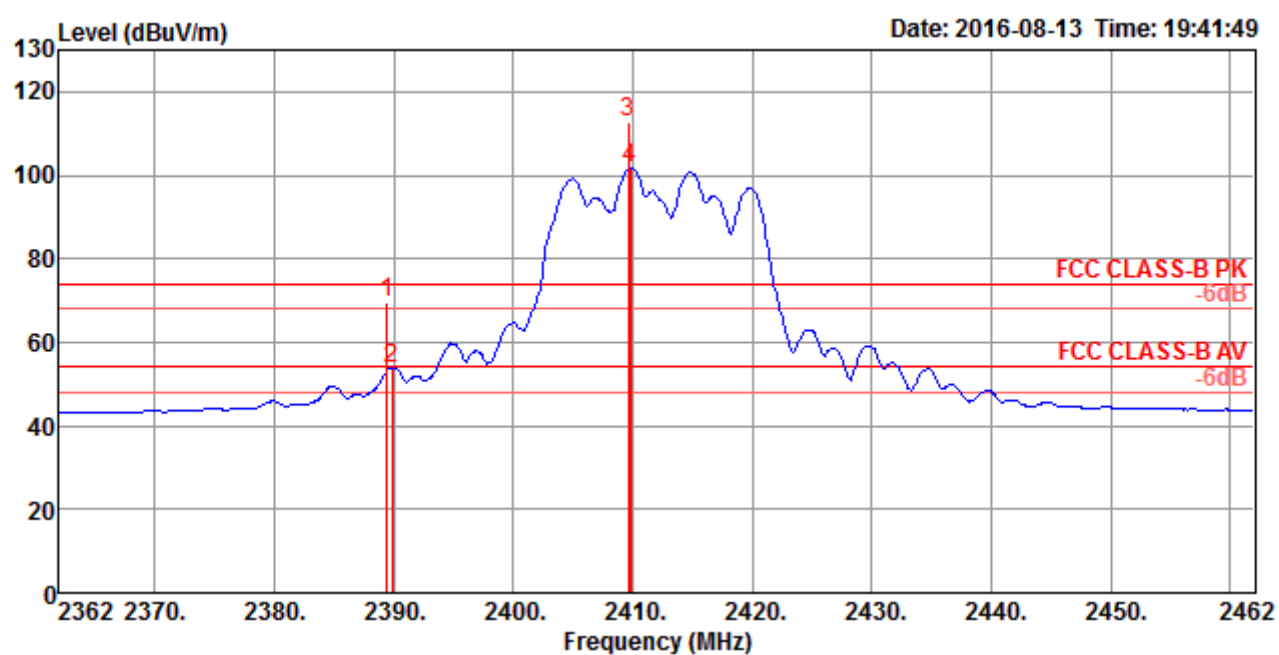
|   |   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preampl | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---|---------|--------|--------|-------|-------|--------------|---------|-------|-------|--------|-----------|
|   |   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m    | dB    | cm    | deg    |           |
| 1 | 0 | 2460.80 | 114.37 |        |       | 82.87 | 4.08         | 27.42   | 0.00  | 190   | 213    | Peak      |
| 2 | 0 | 2461.00 | 104.01 |        |       | 72.51 | 4.08         | 27.42   | 0.00  | 190   | 213    | Average   |
| 3 |   | 2483.50 | 53.83  | 54.00  | -0.17 | 22.26 | 4.10         | 27.47   | 0.00  | 190   | 213    | Average   |
| 4 |   | 2487.80 | 70.40  | 74.00  | -3.60 | 38.83 | 4.10         | 27.47   | 0.00  | 190   | 213    | Peak      |

Item 1, 2 are the fundamental frequency at 2462 MHz.

## Configurations

IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4

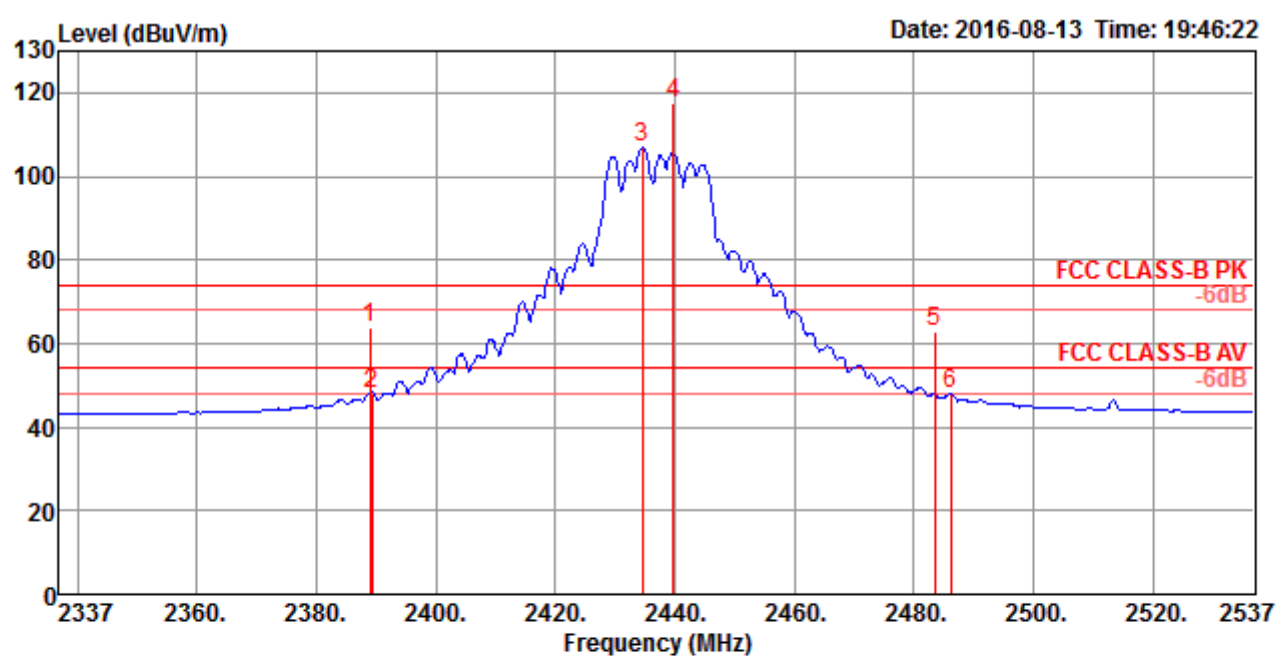
## Channel 1



|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark      | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|-------------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg         |           |
| 1   | 2389.40 | 69.57  | 74.00  | -4.43 | 38.31 | 4.03         | 27.23  | 0.00  | 140   | 257 Peak    | VERTICAL  |
| 2   | 2389.80 | 53.93  | 54.00  | -0.07 | 22.67 | 4.03         | 27.23  | 0.00  | 140   | 257 Average | VERTICAL  |
| 3 0 | 2409.60 | 112.75 |        |       | 81.42 | 4.05         | 27.28  | 0.00  | 140   | 257 Peak    | VERTICAL  |
| 4 0 | 2409.80 | 101.75 |        |       | 70.42 | 4.05         | 27.28  | 0.00  | 140   | 257 Average | VERTICAL  |

Item 3, 4 are the fundamental frequency at 2412 MHz.

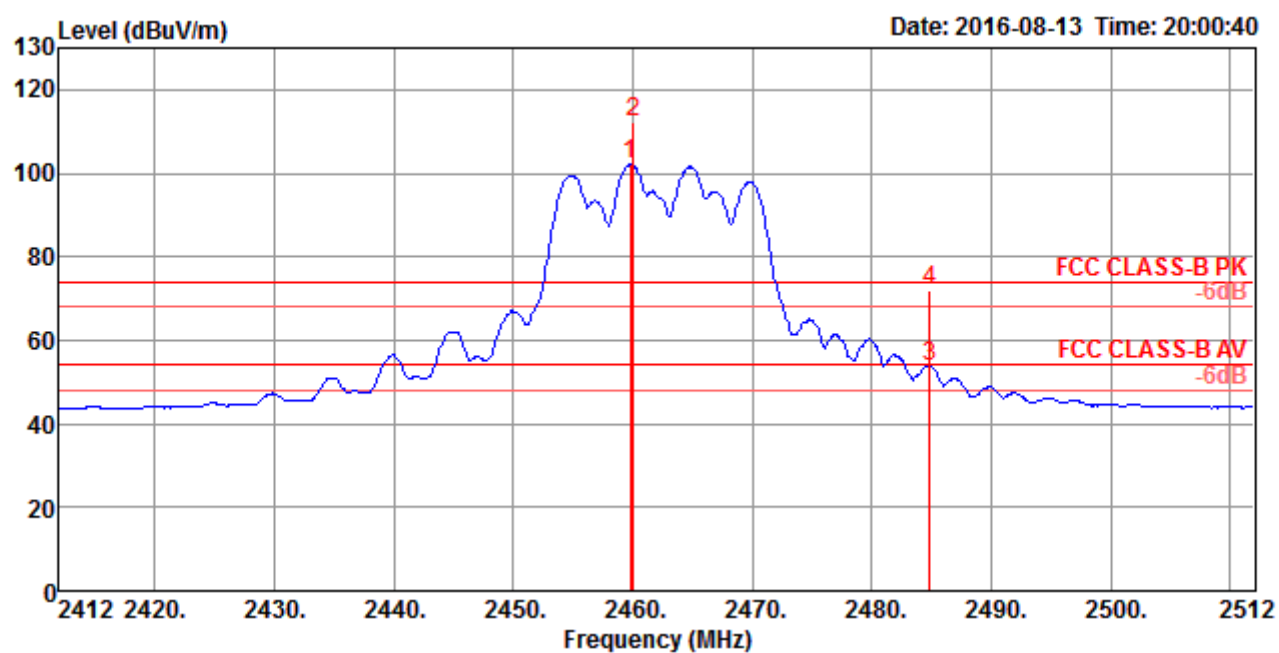
## Channel 6



|     | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark     | Pol/Phase |
|-----|---------|--------|--------|--------|-------|--------------|--------|-------|-------|------------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg        |           |
| 1   | 2389.00 | 63.72  | 74.00  | -10.28 | 32.46 | 4.03         | 27.23  | 0.00  | 238   | 82 Peak    | VERTICAL  |
| 2   | 2389.40 | 48.20  | 54.00  | -5.80  | 16.94 | 4.03         | 27.23  | 0.00  | 238   | 82 Average | VERTICAL  |
| 3 0 | 2434.60 | 106.93 |        |        | 75.52 | 4.06         | 27.35  | 0.00  | 238   | 82 Average | VERTICAL  |
| 4 0 | 2439.80 | 117.47 |        |        | 86.04 | 4.07         | 27.36  | 0.00  | 238   | 82 Peak    | VERTICAL  |
| 5   | 2483.50 | 62.73  | 74.00  | -11.27 | 31.16 | 4.10         | 27.47  | 0.00  | 238   | 82 Peak    | VERTICAL  |
| 6   | 2486.20 | 47.81  | 54.00  | -6.19  | 16.24 | 4.10         | 27.47  | 0.00  | 238   | 82 Average | VERTICAL  |

Item 3, 4 are the fundamental frequency at 2437 MHz.

## Channel 11



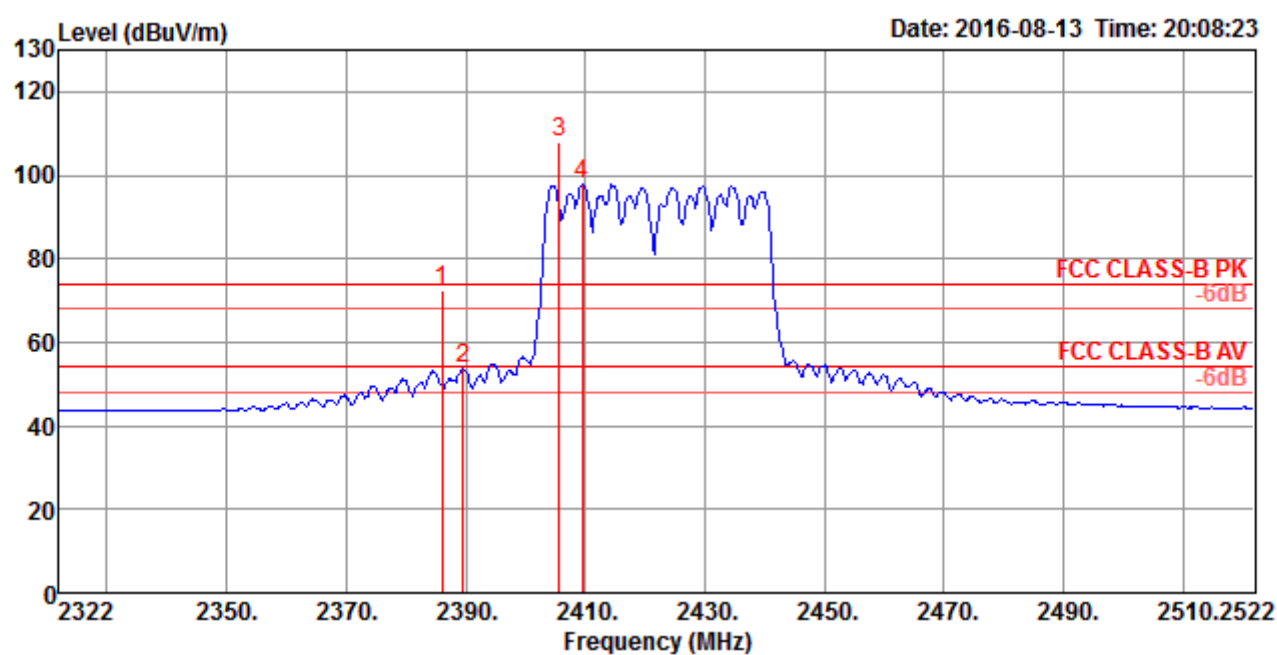
|   |   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preampl | A/Pos  | T/Pos | Remark | Pol/Phase |          |
|---|---|---------|--------|--------|-------|-------|--------------|---------|--------|-------|--------|-----------|----------|
|   |   | MHz     | dBuV/m | Line   | Limit | Level | Loss         | Factor  | Factor |       |        |           |          |
|   |   |         |        | dBuV/m | dB    | dBuV  | dB           | dB/m    | dB     | cm    | deg    |           |          |
| 1 | 0 | 2459.80 | 102.04 |        |       | 70.56 | 4.08         | 27.40   | 0.00   | 140   | 266    | Average   | VERTICAL |
| 2 | 0 | 2460.00 | 112.42 |        |       | 80.94 | 4.08         | 27.40   | 0.00   | 140   | 266    | Peak      | VERTICAL |
| 3 |   | 2484.80 | 53.64  | 54.00  | -0.36 | 22.07 | 4.10         | 27.47   | 0.00   | 140   | 266    | Average   | VERTICAL |
| 4 |   | 2484.80 | 71.87  | 74.00  | -2.13 | 40.30 | 4.10         | 27.47   | 0.00   | 140   | 266    | Peak      | VERTICAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

## Configurations

IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4

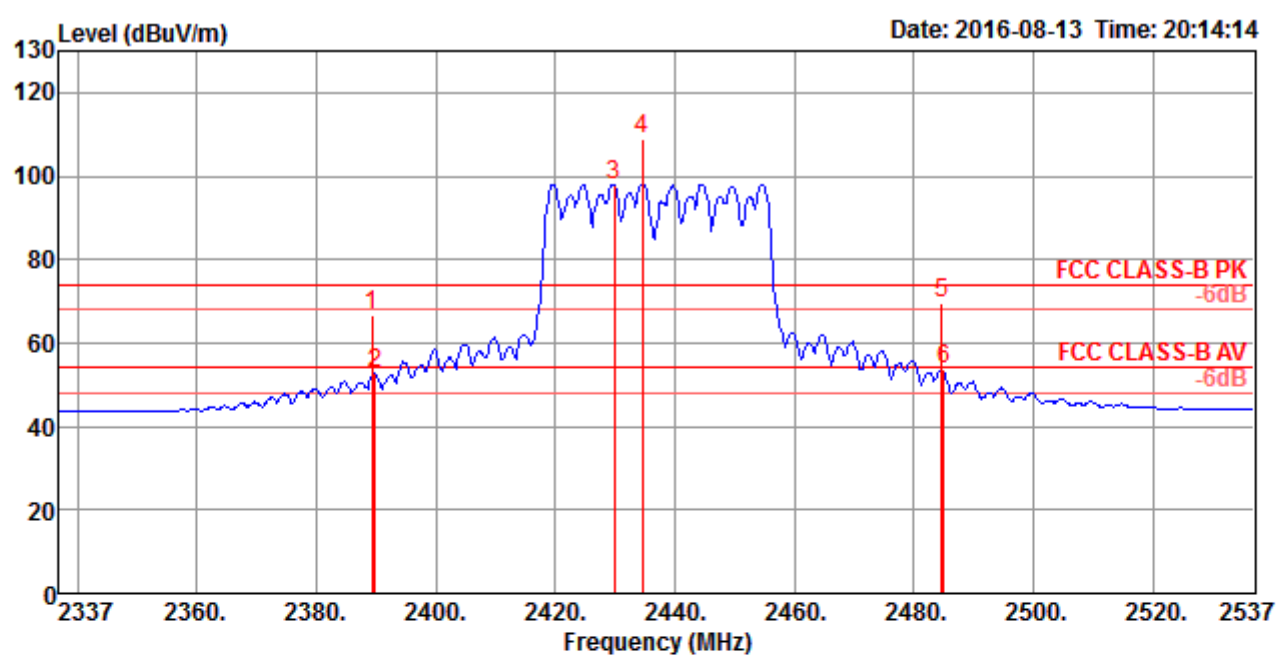
## Channel 3



|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark     | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|------------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg        |           |
| 1   | 2386.00 | 72.45  | 74.00  | -1.55 | 41.19 | 4.03         | 27.23  | 0.00  | 244   | 94 Peak    | VERTICAL  |
| 2   | 2389.60 | 53.60  | 54.00  | -0.40 | 22.34 | 4.03         | 27.23  | 0.00  | 244   | 94 Average | VERTICAL  |
| 3 0 | 2405.60 | 107.74 |        |       | 76.41 | 4.05         | 27.28  | 0.00  | 244   | 94 Peak    | VERTICAL  |
| 4 0 | 2409.60 | 97.72  |        |       | 66.39 | 4.05         | 27.28  | 0.00  | 244   | 94 Average | VERTICAL  |

Item 3, 4 are the fundamental frequency at 2422 MHz.

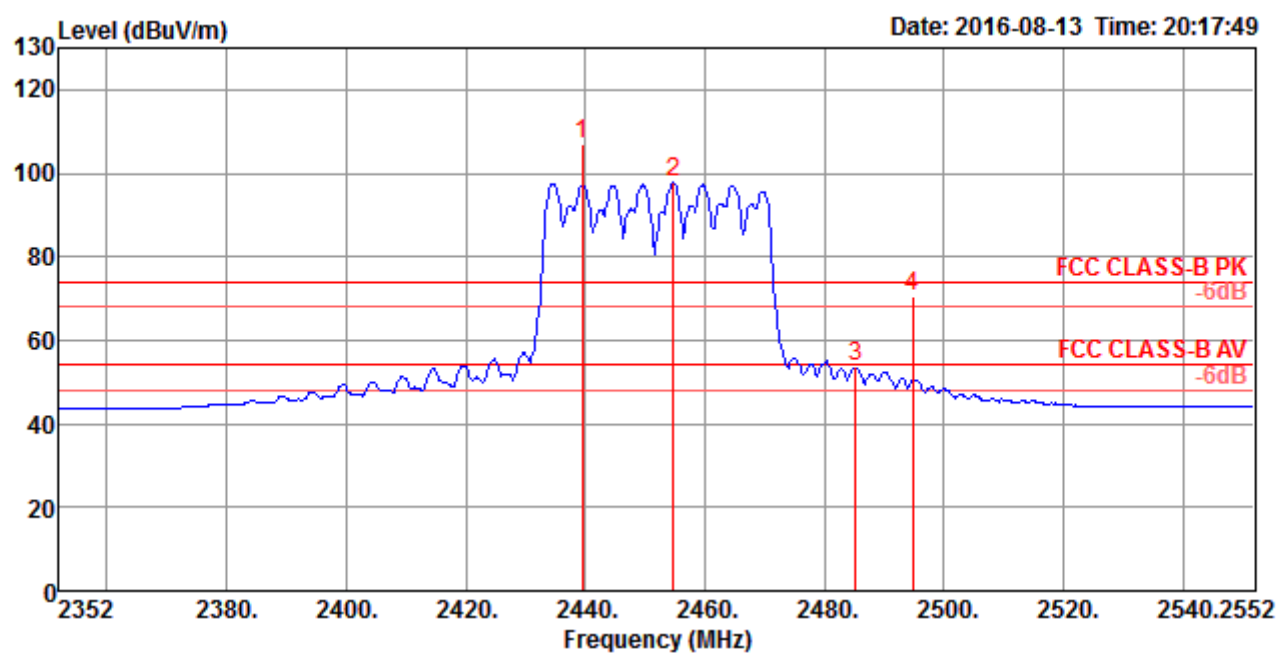
## Channel 6



|     | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|
|     | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB    | cm    | deg    |           |
| 1   | 2389.40 | 66.52  | 74.00      | -7.48      | 35.26      | 4.03              | 27.23         | 0.00  | 220   | 104    | Peak      |
| 2   | 2389.80 | 52.56  | 54.00      | -1.44      | 21.30      | 4.03              | 27.23         | 0.00  | 220   | 104    | Average   |
| 3 0 | 2429.80 | 98.04  |            |            | 66.65      | 4.06              | 27.33         | 0.00  | 220   | 104    | Average   |
| 4 0 | 2434.60 | 108.70 |            |            | 77.29      | 4.06              | 27.35         | 0.00  | 220   | 104    | Peak      |
| 5   | 2484.60 | 69.38  | 74.00      | -4.62      | 37.81      | 4.10              | 27.47         | 0.00  | 220   | 104    | Peak      |
| 6   | 2485.00 | 53.55  | 54.00      | -0.45      | 21.98      | 4.10              | 27.47         | 0.00  | 220   | 104    | Average   |

Item 3, 4 are the fundamental frequency at 2437 MHz.

## Channel 9



|   |   | Freq    | Level  | Limit | Over  | Read  | CableAntenna | Preamp | A/Pos  | T/Pos | Remark | Pol/Phase |
|---|---|---------|--------|-------|-------|-------|--------------|--------|--------|-------|--------|-----------|
|   |   | MHz     | dBuV/m | Line  | Limit | Level | Loss         | Factor | Factor | cm    | deg    |           |
| 1 | 0 | 2439.60 | 106.96 |       |       | 75.53 | 4.07         | 27.36  | 0.00   | 200   | 93     | Peak      |
| 2 | 0 | 2454.80 | 97.72  |       |       | 66.24 | 4.08         | 27.40  | 0.00   | 200   | 93     | Average   |
| 3 |   | 2485.20 | 53.51  | 54.00 | -0.49 | 21.94 | 4.10         | 27.47  | 0.00   | 200   | 93     | Average   |
| 4 |   | 2494.80 | 70.60  | 74.00 | -3.40 | 39.02 | 4.10         | 27.48  | 0.00   | 200   | 93     | Peak      |

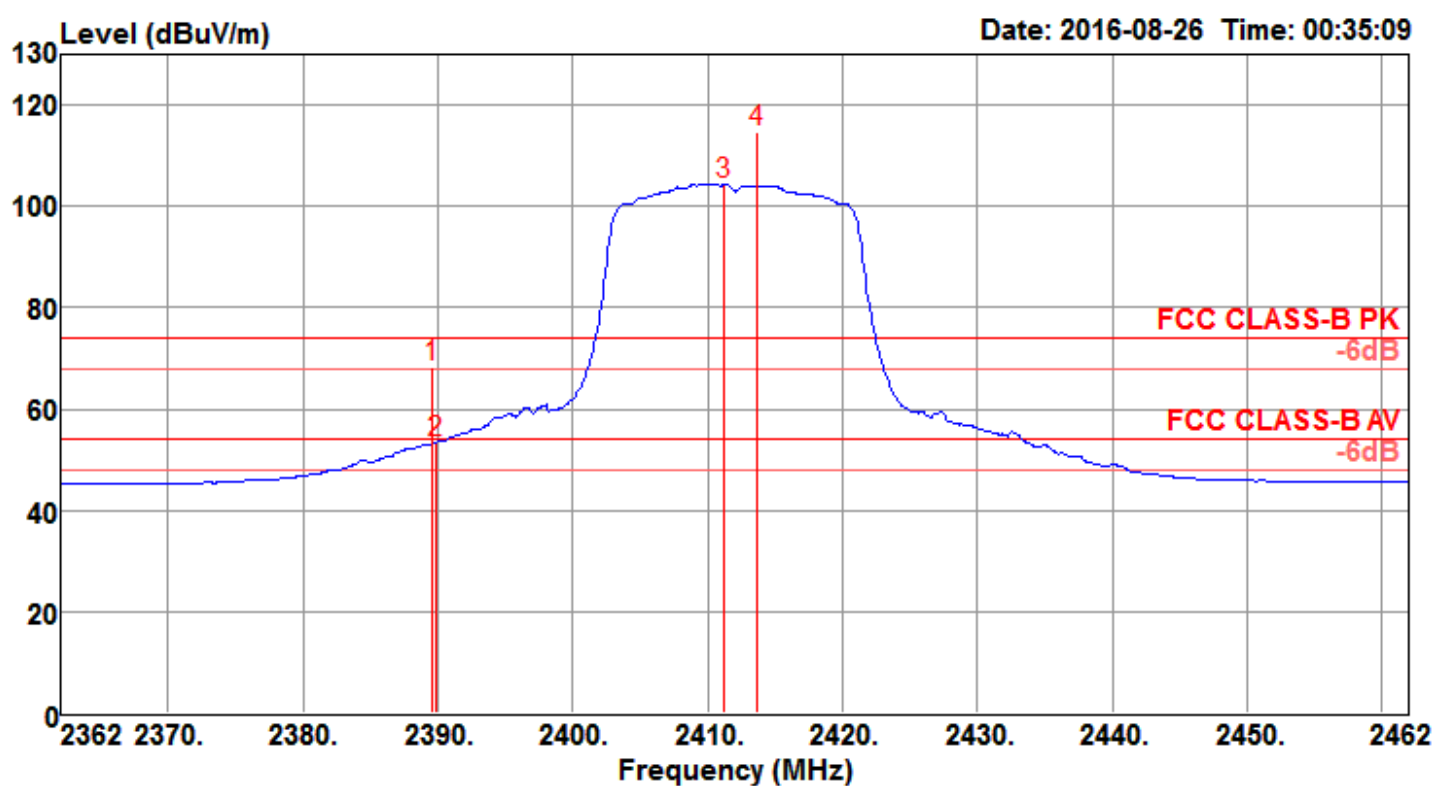
Item 1, 2 are the fundamental frequency at 2452 MHz.

&lt;For Beamforming Mode&gt;

## Configurations

IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4

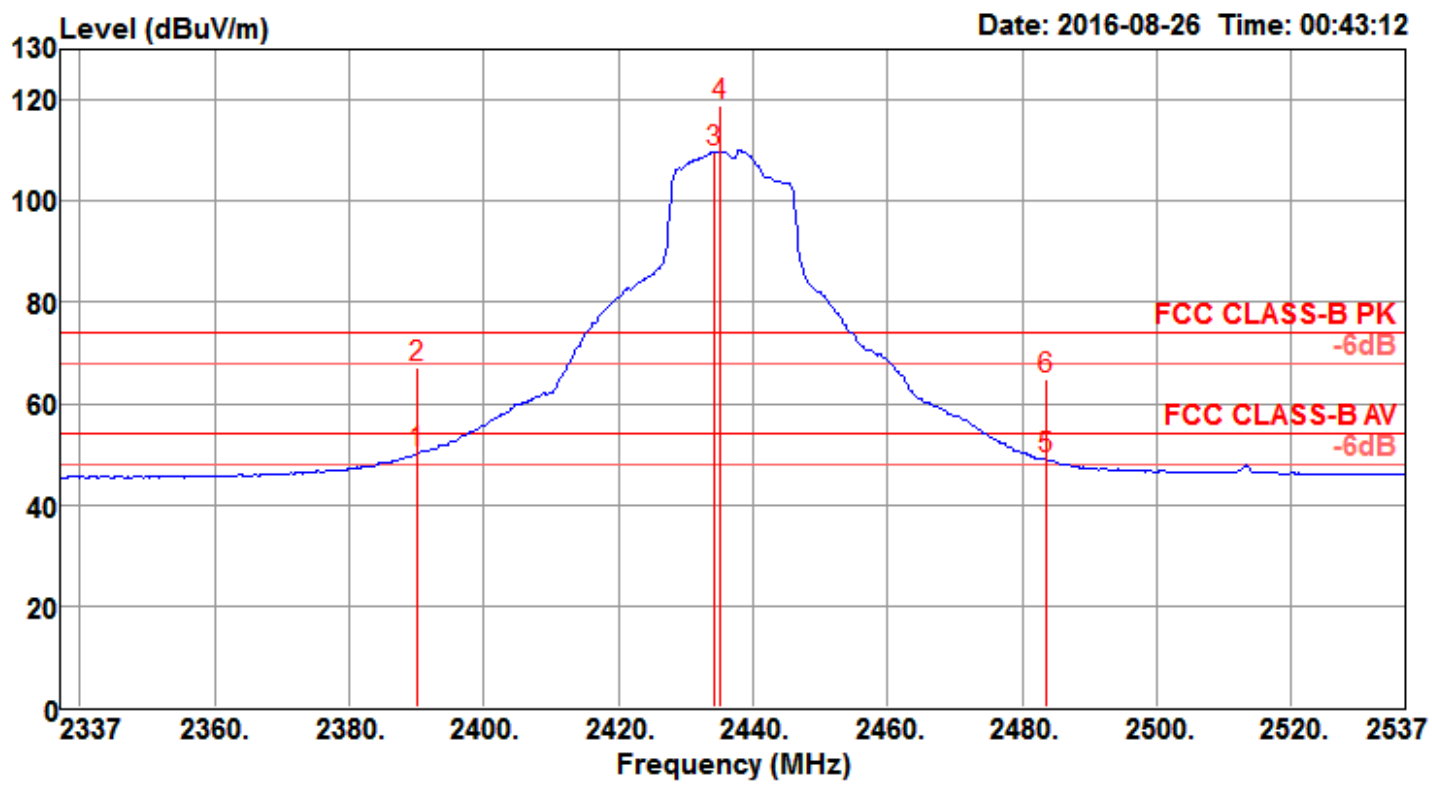
Channel 1



|     | Freq    | Level  | Limit | Over  | Read  | CableAntenna | Preamp | A/Pos  | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|-------|-------|-------|--------------|--------|--------|-------|--------|-----------|
|     | MHz     | dBuV/m | Line  | Limit | Level | Loss         | Factor | Factor | cm    | deg    |           |
| 1   | 2389.60 | 68.45  | 74.00 | -5.55 | 35.34 | 4.54         | 28.57  | 0.00   | 220   | 35     | Peak      |
| 2   | 2389.80 | 53.47  | 54.00 | -0.53 | 20.36 | 4.54         | 28.57  | 0.00   | 220   | 35     | Average   |
| 3 @ | 2411.20 | 104.49 |       |       | 71.29 | 4.57         | 28.63  | 0.00   | 220   | 35     | Average   |
| 4 @ | 2413.60 | 114.49 |       |       | 81.29 | 4.57         | 28.63  | 0.00   | 220   | 35     | Peak      |

Item 3, 4 are the fundamental frequency at 2412 MHz.

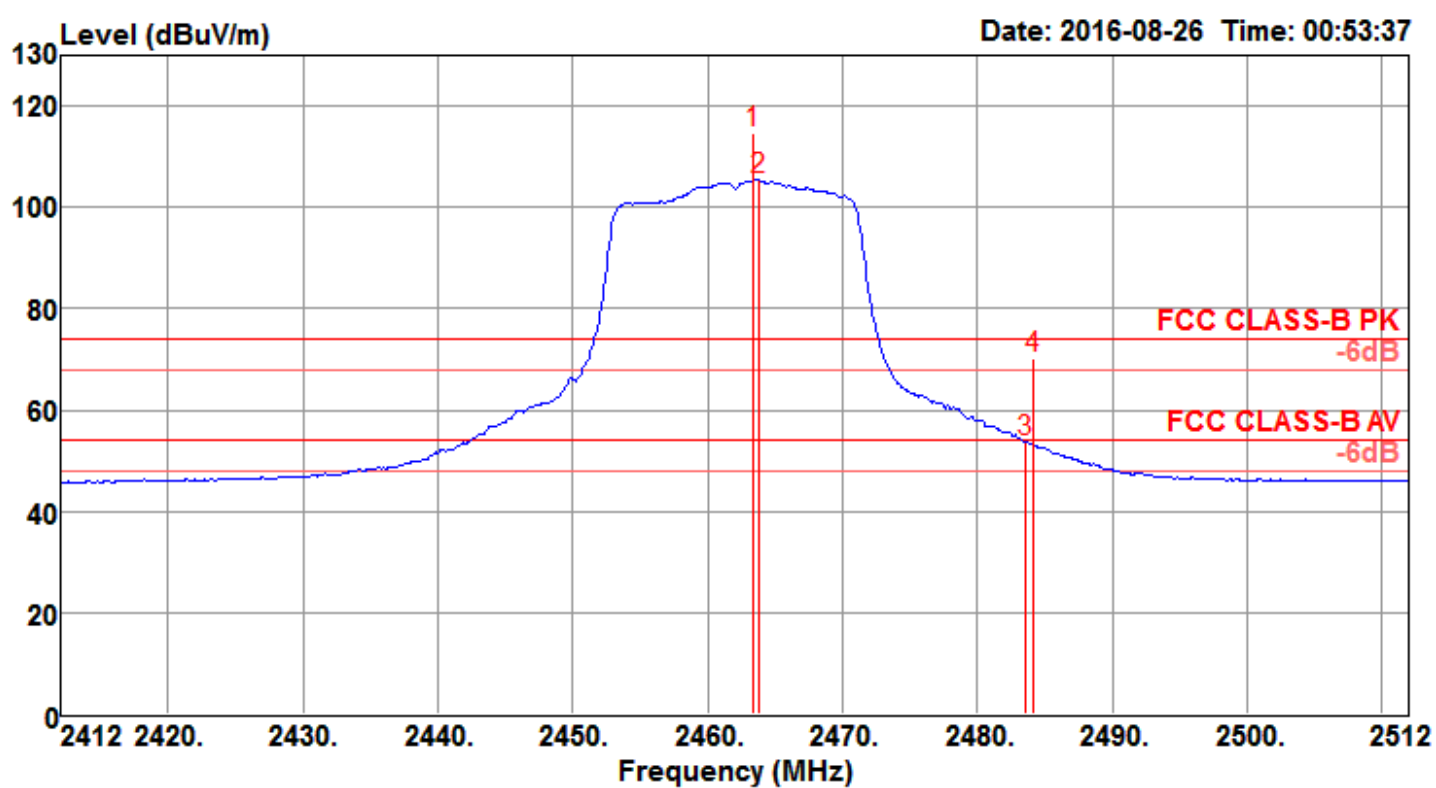
Channel 6



|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark     | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|------------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg        |           |
| 1   | 2390.00 | 50.07  | 54.00  | -3.93 | 16.96 | 4.54         | 28.57  | 0.00  | 204   | 24 Average | VERTICAL  |
| 2   | 2390.00 | 67.02  | 74.00  | -6.98 | 33.91 | 4.54         | 28.57  | 0.00  | 204   | 24 Peak    | VERTICAL  |
| 3 @ | 2434.20 | 109.81 |        |       | 76.55 | 4.59         | 28.67  | 0.00  | 204   | 24 Average | VERTICAL  |
| 4 @ | 2435.00 | 118.96 |        |       | 85.70 | 4.59         | 28.67  | 0.00  | 204   | 24 Peak    | VERTICAL  |
| 5   | 2483.50 | 48.91  | 54.00  | -5.09 | 15.51 | 4.63         | 28.77  | 0.00  | 204   | 24 Average | VERTICAL  |
| 6   | 2483.50 | 65.01  | 74.00  | -8.99 | 31.61 | 4.63         | 28.77  | 0.00  | 204   | 24 Peak    | VERTICAL  |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11



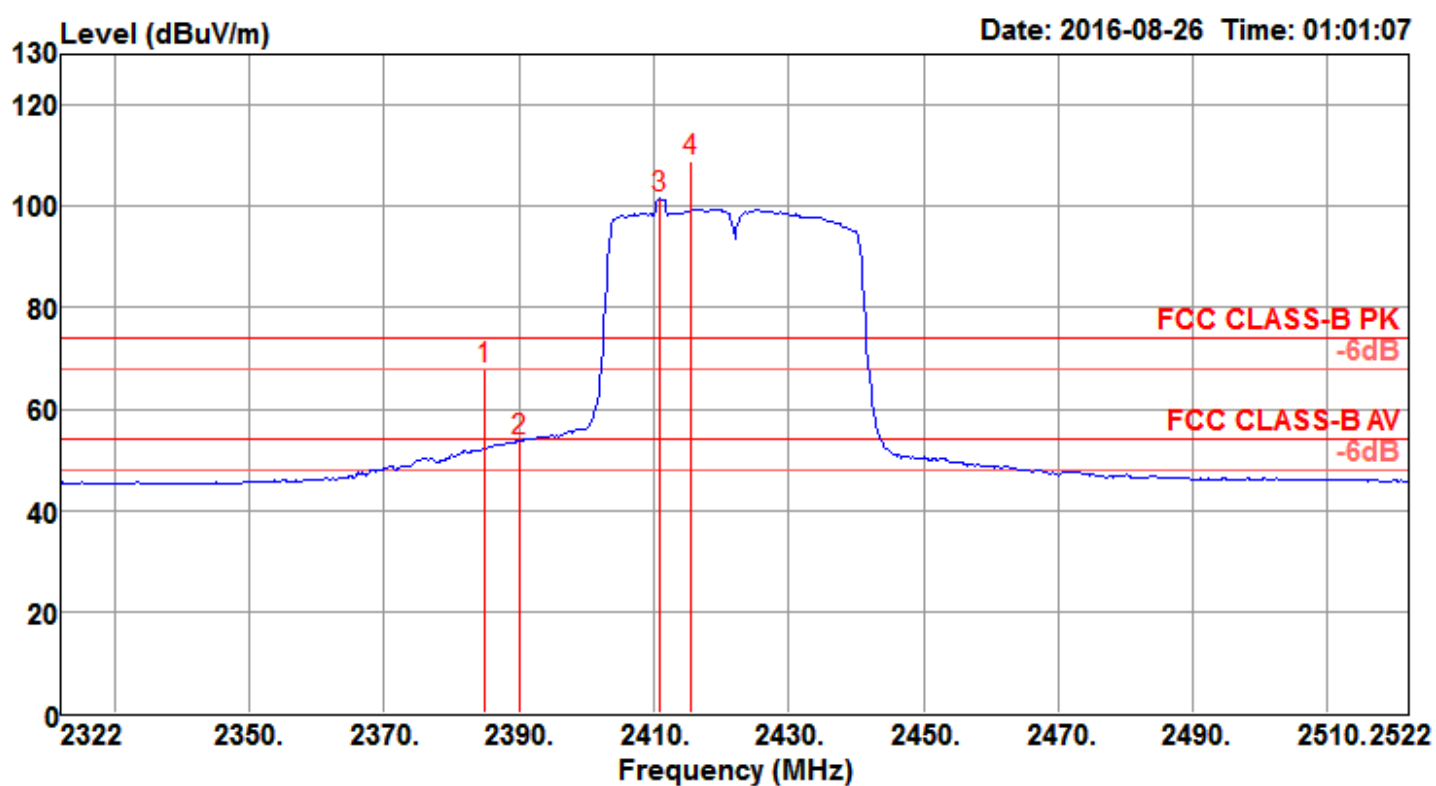
|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|--------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 @ | 2463.40 | 114.76 |        |       | 81.42 | 4.61         | 28.73  | 0.00  | 176   | 31     | Peak      |
| 2 @ | 2463.80 | 105.40 |        |       | 72.06 | 4.61         | 28.73  | 0.00  | 176   | 31     | Average   |
| 3   | 2483.50 | 53.88  | 54.00  | -0.12 | 20.48 | 4.63         | 28.77  | 0.00  | 176   | 31     | Average   |
| 4   | 2484.20 | 70.21  | 74.00  | -3.79 | 36.81 | 4.63         | 28.77  | 0.00  | 176   | 31     | Peak      |

Item 1, 2 are the fundamental frequency at 2462 MHz.

## Configurations

IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4

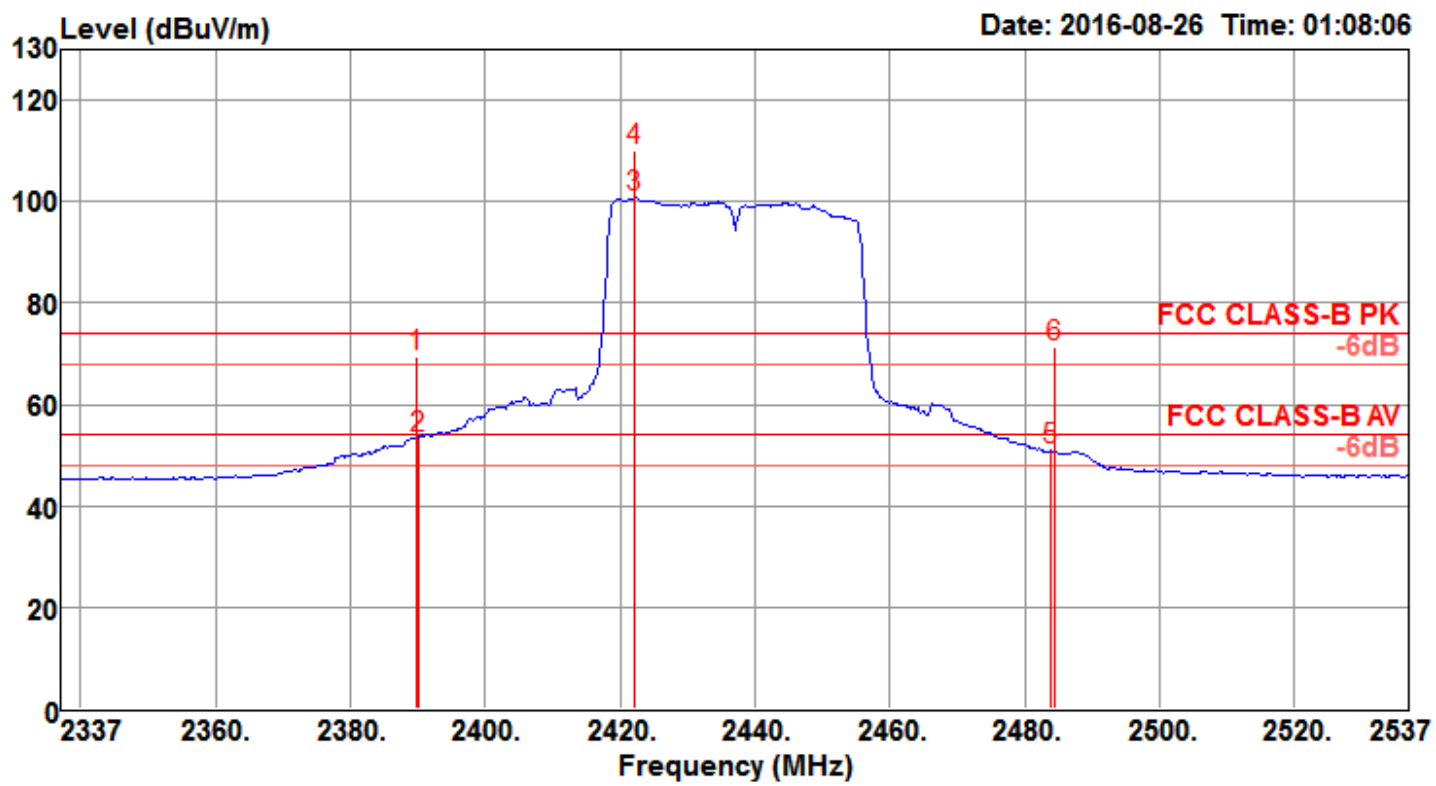
## Channel 3



|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|--------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1   | 2384.80 | 67.98  | 74.00  | -6.02 | 34.87 | 4.54         | 28.57  | 0.00  | 185   | 26     | Peak      |
| 2   | 2390.00 | 53.61  | 54.00  | -0.39 | 20.50 | 4.54         | 28.57  | 0.00  | 185   | 26     | Average   |
| 3 @ | 2410.80 | 101.48 |        |       | 68.30 | 4.57         | 28.61  | 0.00  | 185   | 26     | Average   |
| 4 @ | 2415.60 | 109.05 |        |       | 75.85 | 4.57         | 28.63  | 0.00  | 185   | 26     | Peak      |

Item 3, 4 are the fundamental frequency at 2422 MHz.

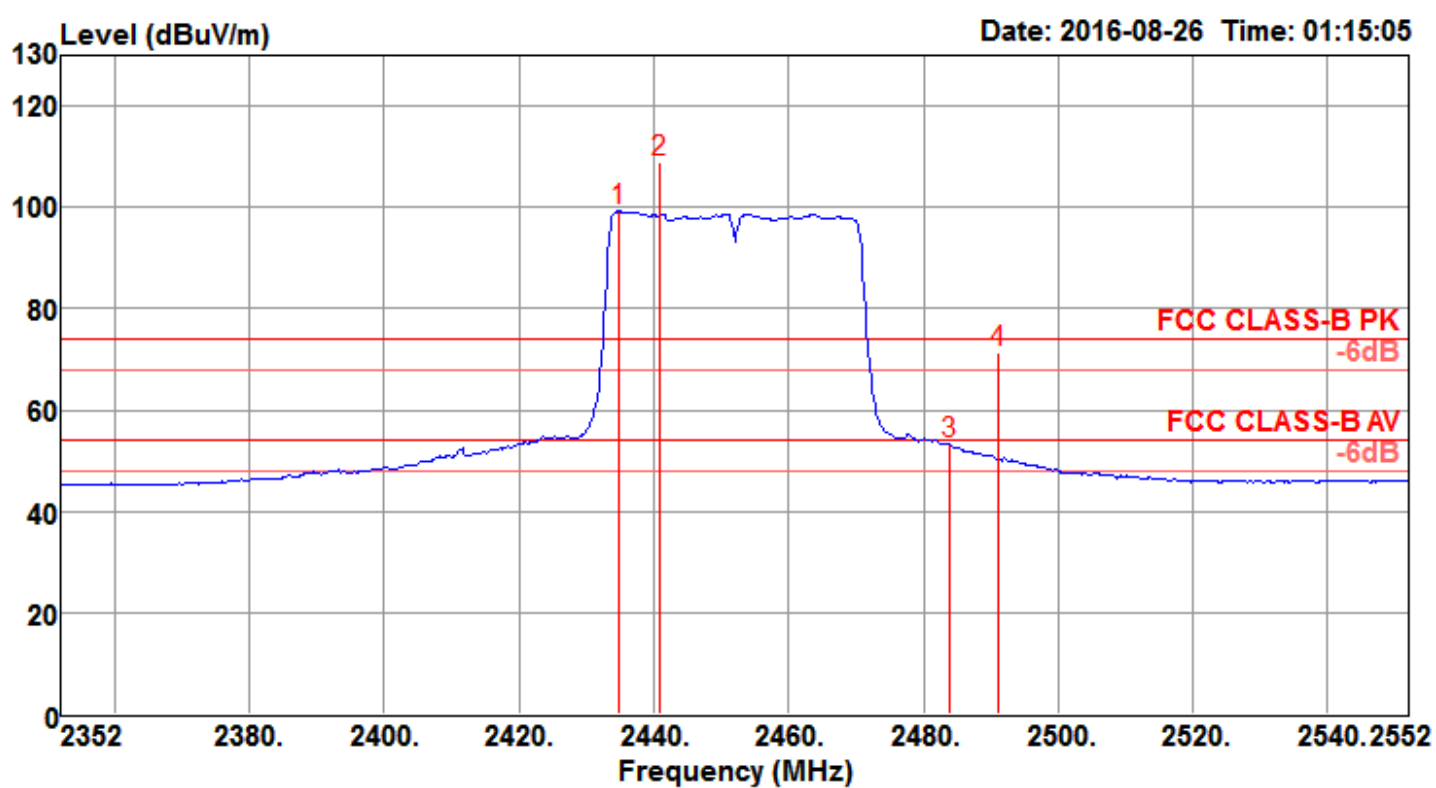
Channel 6



|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark     | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|------------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg        |           |
| 1   | 2389.80 | 69.35  | 74.00  | -4.65 | 36.24 | 4.54         | 28.57  | 0.00  | 212   | 52 Peak    | VERTICAL  |
| 2   | 2390.00 | 53.51  | 54.00  | -0.49 | 20.40 | 4.54         | 28.57  | 0.00  | 212   | 52 Average | VERTICAL  |
| 3 @ | 2422.20 | 100.84 |        |       | 67.62 | 4.58         | 28.64  | 0.00  | 212   | 52 Average | VERTICAL  |
| 4 @ | 2422.20 | 110.20 |        |       | 76.98 | 4.58         | 28.64  | 0.00  | 212   | 52 Peak    | VERTICAL  |
| 5   | 2483.80 | 50.88  | 54.00  | -3.12 | 17.48 | 4.63         | 28.77  | 0.00  | 212   | 52 Average | VERTICAL  |
| 6   | 2484.60 | 71.16  | 74.00  | -2.84 | 37.76 | 4.63         | 28.77  | 0.00  | 212   | 52 Peak    | VERTICAL  |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark     | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|------------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg        |           |
| 1 @ | 2434.80 | 99.20  |        |       | 65.94 | 4.59         | 28.67  | 0.00  | 217   | 24 Average | VERTICAL  |
| 2 @ | 2440.80 | 108.85 |        |       | 75.56 | 4.60         | 28.69  | 0.00  | 217   | 24 Peak    | VERTICAL  |
| 3   | 2484.00 | 53.33  | 54.00  | -0.67 | 19.93 | 4.63         | 28.77  | 0.00  | 217   | 24 Average | VERTICAL  |
| 4   | 2491.20 | 71.45  | 74.00  | -2.55 | 38.02 | 4.64         | 28.79  | 0.00  | 217   | 24 Peak    | VERTICAL  |

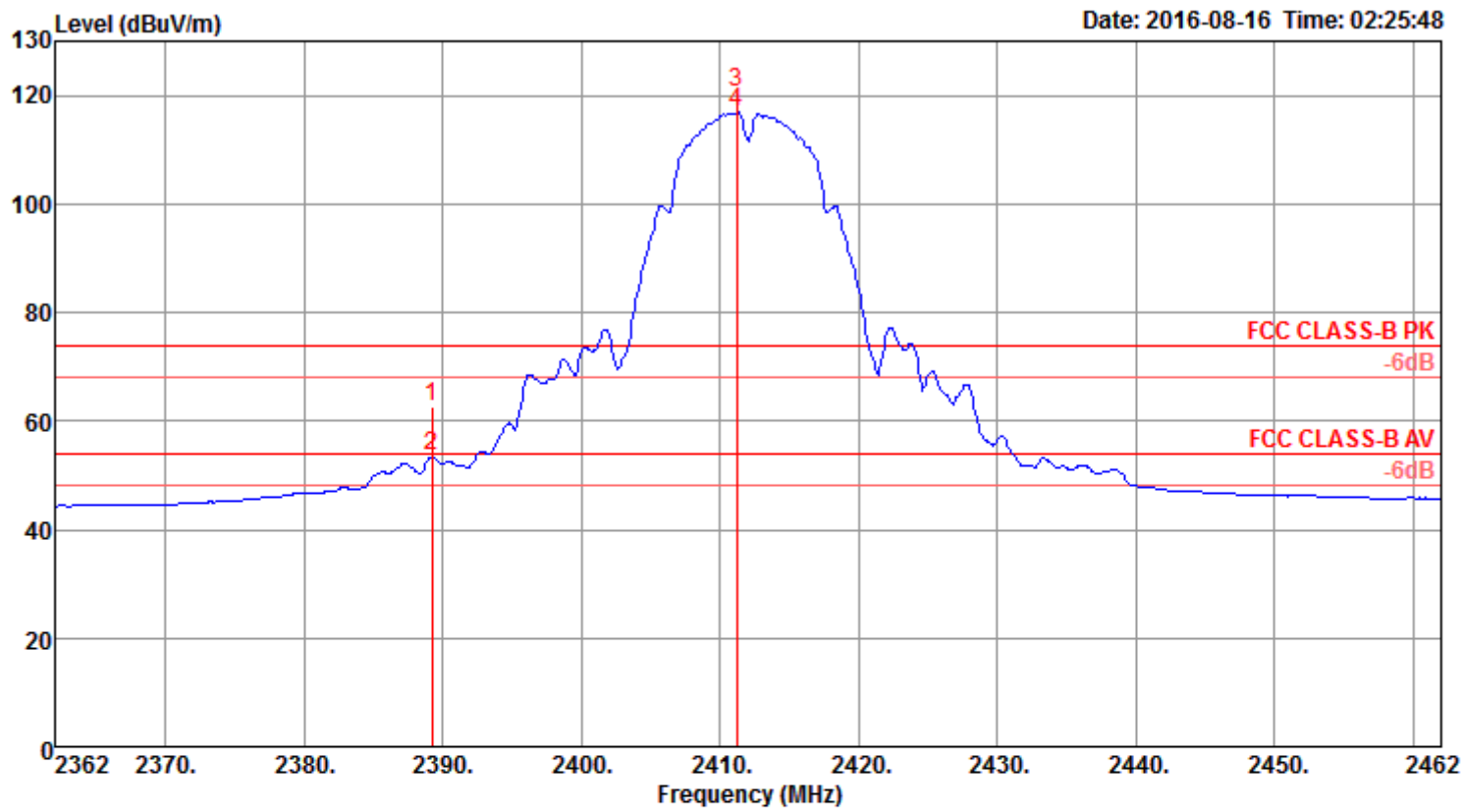
Item 1, 2 are the fundamental frequency at 2452 MHz.

For Antenna 2

&lt;For Non-Beamforming Mode&gt;

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| Configurations | IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|------------------------------------------------------------------|

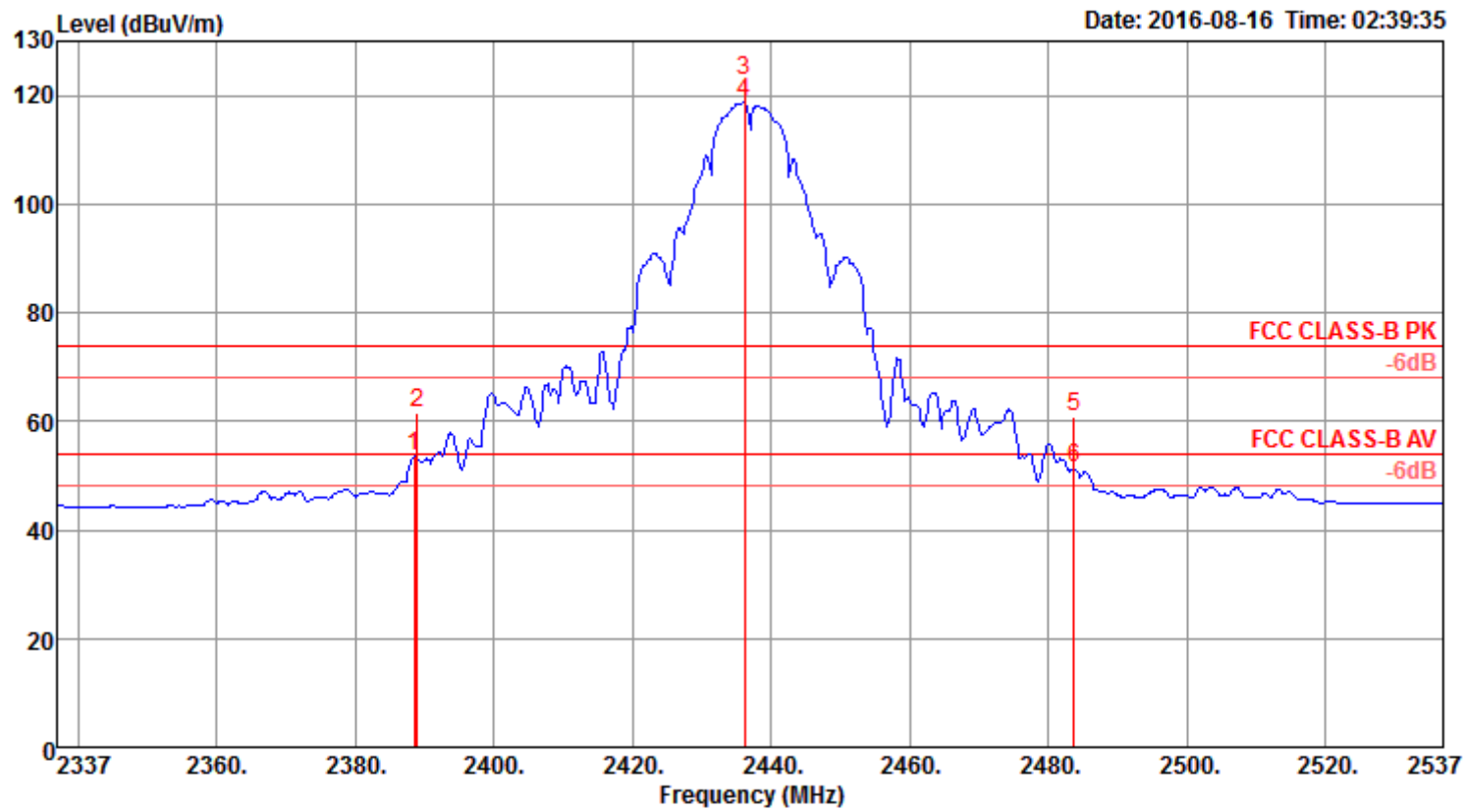
Channel 1



|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark    | Pol/Phase  |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg       |            |
| 1 | 2389.20 | 62.68  | 74.00  | -11.32 | 30.13 | 4.53         | 28.02  | 0.00  | 181   | 0 Peak    | HORIZONTAL |
| 2 | 2389.20 | 53.51  | 54.00  | -0.49  | 20.96 | 4.53         | 28.02  | 0.00  | 181   | 0 Average | HORIZONTAL |
| 3 | 2411.20 | 120.65 |        |        | 88.09 | 4.57         | 27.99  | 0.00  | 181   | 0 Peak    | HORIZONTAL |
| 4 | 2411.20 | 116.86 |        |        | 84.30 | 4.57         | 27.99  | 0.00  | 181   | 0 Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

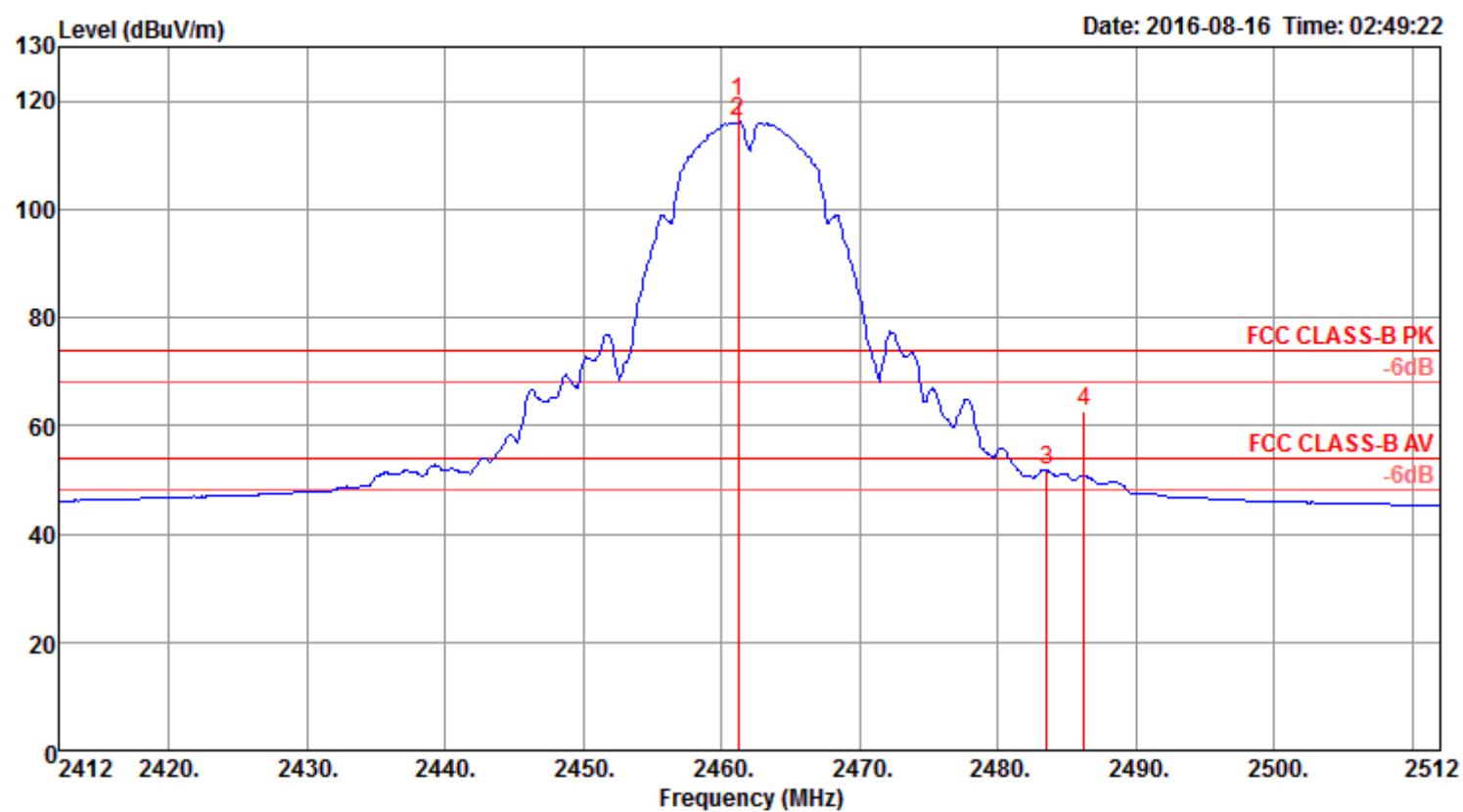
## Channel 6



|   | Freq    | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | cm    | deg   |         |            |
| 1 | 2388.60 | 53.57  | 54.00  | -0.43  | 21.02 | 4.53  | 28.02   | 0.00   | 162   | 2     | Average | HORIZONTAL |
| 2 | 2389.00 | 61.49  | 74.00  | -12.51 | 28.94 | 4.53  | 28.02   | 0.00   | 162   | 2     | Peak    | HORIZONTAL |
| 3 | 2436.20 | 122.58 |        |        | 90.01 | 4.60  | 27.97   | 0.00   | 162   | 2     | Peak    | HORIZONTAL |
| 4 | 2436.20 | 118.63 |        |        | 86.06 | 4.60  | 27.97   | 0.00   | 162   | 2     | Average | HORIZONTAL |
| 5 | 2483.80 | 60.77  | 74.00  | -13.23 | 28.17 | 4.68  | 27.92   | 0.00   | 162   | 2     | Peak    | HORIZONTAL |
| 6 | 2483.80 | 51.26  | 54.00  | -2.74  | 18.66 | 4.68  | 27.92   | 0.00   | 162   | 2     | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

## Channel 11

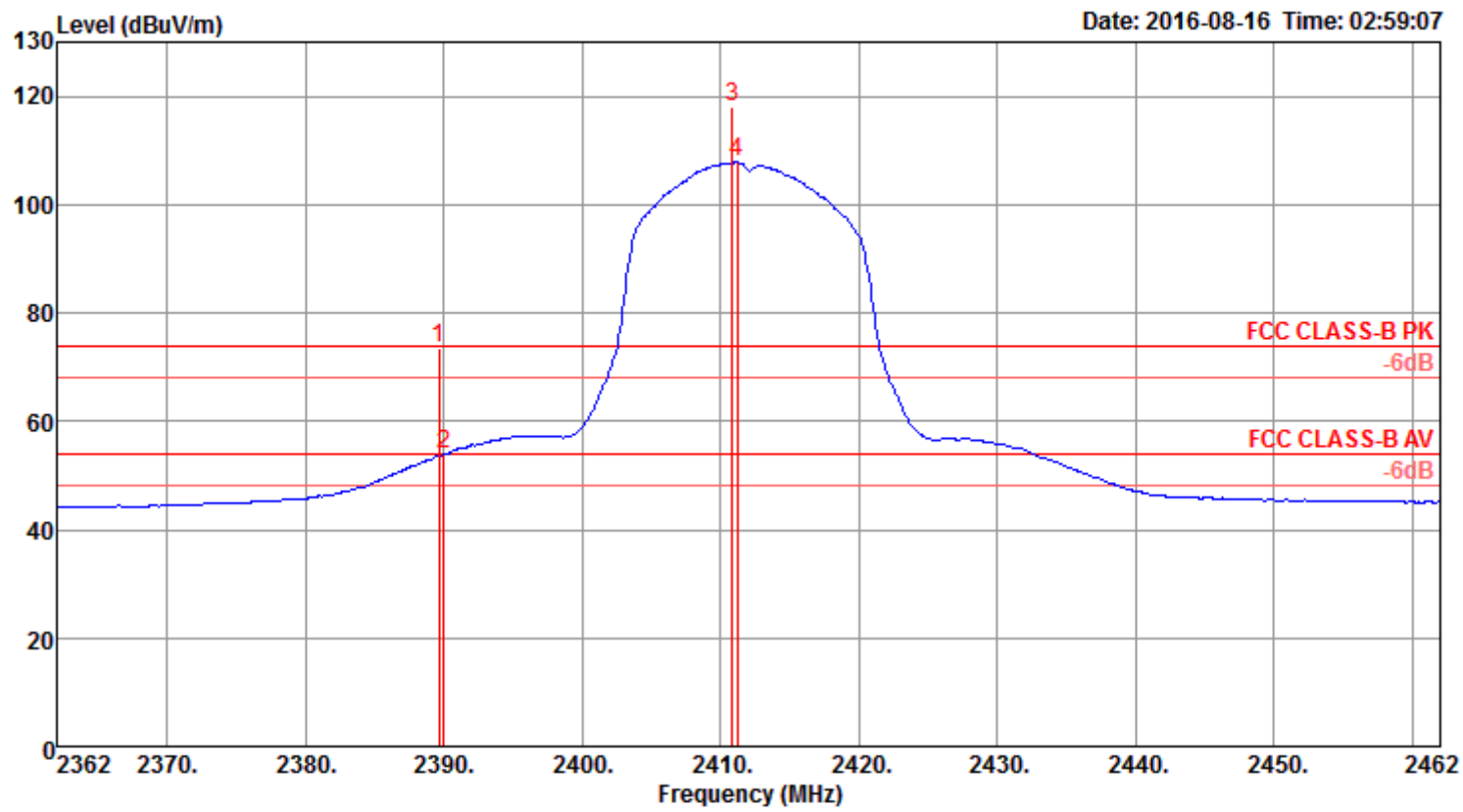


|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark    | Pol/Phase  |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg       |            |
| 1 | 2461.20 | 120.00 |        |        | 87.42 | 4.64         | 27.94  | 0.00  | 198   | 2 Peak    | HORIZONTAL |
| 2 | 2461.20 | 116.20 |        |        | 83.62 | 4.64         | 27.94  | 0.00  | 198   | 2 Average | HORIZONTAL |
| 3 | 2483.50 | 51.65  | 54.00  | -2.35  | 19.05 | 4.68         | 27.92  | 0.00  | 198   | 2 Average | HORIZONTAL |
| 4 | 2486.20 | 62.49  | 74.00  | -11.51 | 29.89 | 4.68         | 27.92  | 0.00  | 198   | 2 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| Configurations | IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|------------------------------------------------------------------|

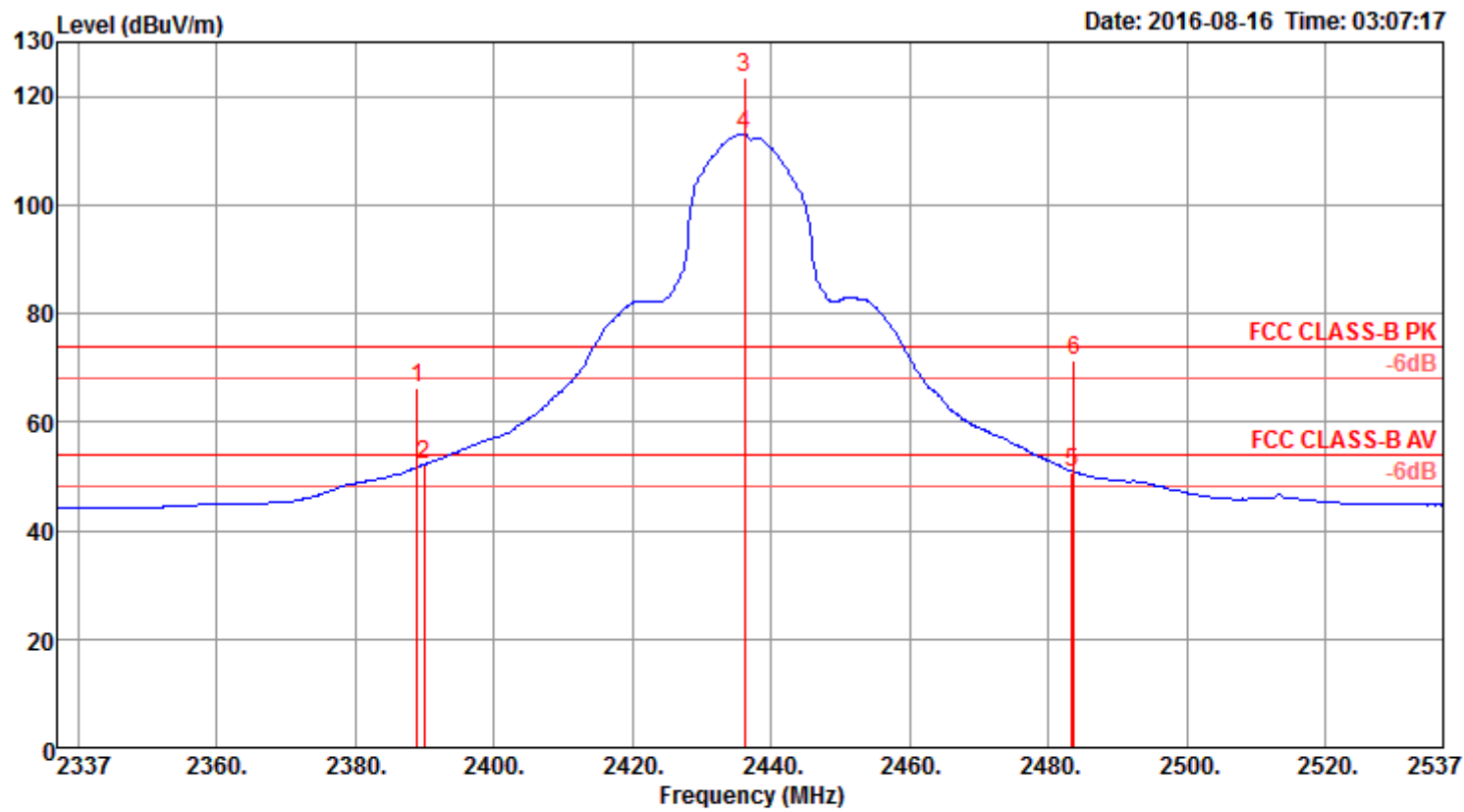
Channel 1



|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark    | Pol/Phase  |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg       |            |
| 1 | 2389.60 | 73.68  | 74.00  | -0.32 | 41.13 | 4.53         | 28.02  | 0.00  | 183   | 1 Peak    | HORIZONTAL |
| 2 | 2390.00 | 53.90  | 54.00  | -0.10 | 21.35 | 4.53         | 28.02  | 0.00  | 183   | 1 Average | HORIZONTAL |
| 3 | 2410.80 | 118.05 |        |       | 85.49 | 4.56         | 28.00  | 0.00  | 183   | 1 Peak    | HORIZONTAL |
| 4 | 2411.20 | 107.74 |        |       | 75.18 | 4.57         | 27.99  | 0.00  | 183   | 1 Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

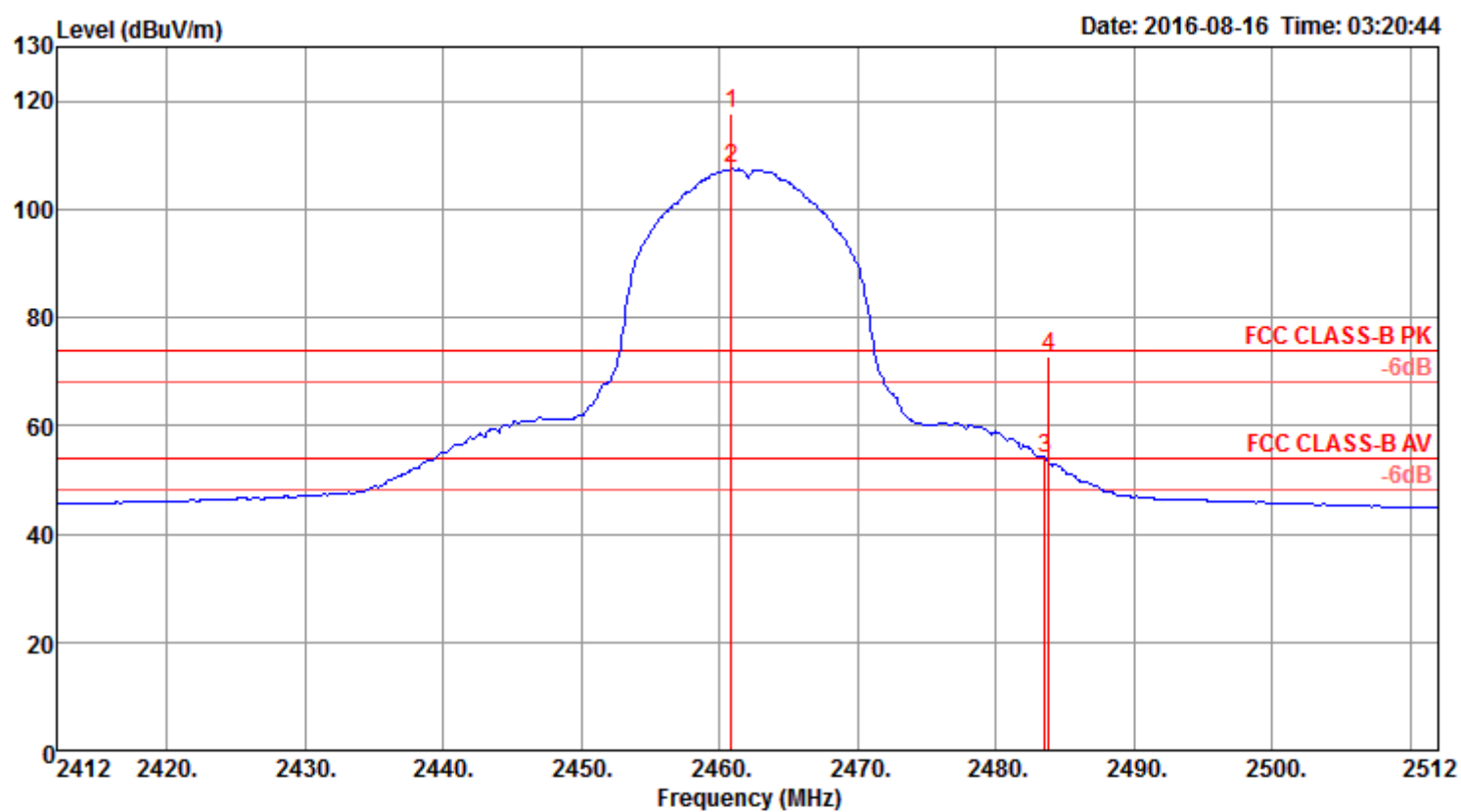
## Channel 6



|   | Freq    | Level  | Limit  | Over  | Read  | Cable | Antenna | Preamp | A/Pos | T/Pos | Remark  | Pol/Phase  |
|---|---------|--------|--------|-------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB    | dB/m    | dB     | cm    | deg   |         |            |
| 1 | 2389.00 | 66.23  | 74.00  | -7.77 | 33.68 | 4.53  | 28.02   | 0.00   | 154   | 0     | Peak    | HORIZONTAL |
| 2 | 2390.00 | 52.20  | 54.00  | -1.80 | 19.65 | 4.53  | 28.02   | 0.00   | 154   | 0     | Average | HORIZONTAL |
| 3 | 2436.20 | 123.32 |        |       | 90.75 | 4.60  | 27.97   | 0.00   | 154   | 0     | Peak    | HORIZONTAL |
| 4 | 2436.20 | 113.04 |        |       | 80.47 | 4.60  | 27.97   | 0.00   | 154   | 0     | Average | HORIZONTAL |
| 5 | 2483.50 | 50.87  | 54.00  | -3.13 | 18.27 | 4.68  | 27.92   | 0.00   | 154   | 0     | Average | HORIZONTAL |
| 6 | 2483.80 | 71.31  | 74.00  | -2.69 | 38.71 | 4.68  | 27.92   | 0.00   | 154   | 0     | Peak    | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

## Channel 11

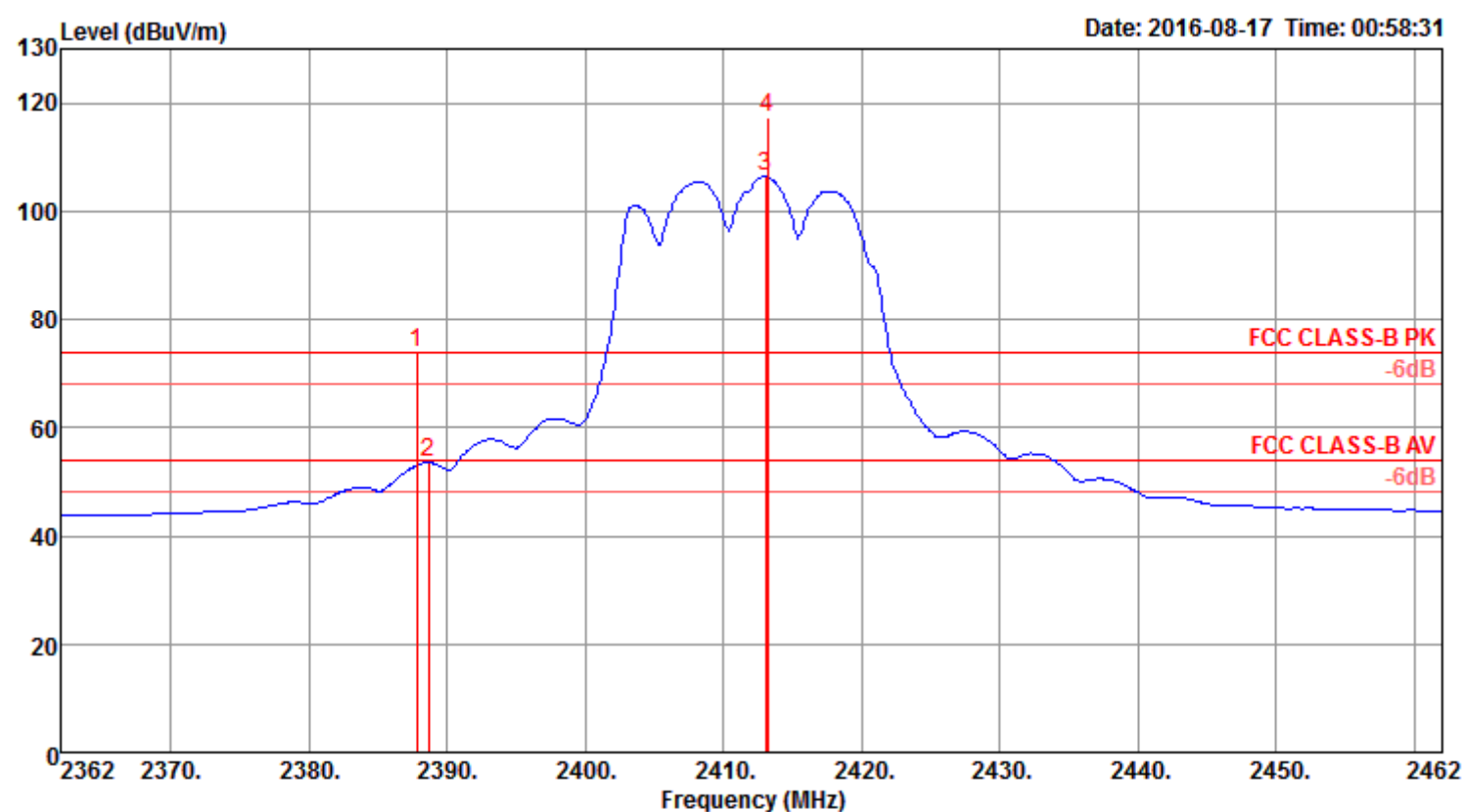


|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark    | Pol/Phase  |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg       |            |
| 1 | 2460.80 | 117.71 |        |       | 85.13 | 4.64         | 27.94  | 0.00  | 176   | 2 Peak    | HORIZONTAL |
| 2 | 2460.80 | 107.39 |        |       | 74.81 | 4.64         | 27.94  | 0.00  | 176   | 2 Average | HORIZONTAL |
| 3 | 2483.50 | 53.91  | 54.00  | -0.09 | 21.31 | 4.68         | 27.92  | 0.00  | 176   | 2 Average | HORIZONTAL |
| 4 | 2483.80 | 72.76  | 74.00  | -1.24 | 40.16 | 4.68         | 27.92  | 0.00  | 176   | 2 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

|                |                                                                                   |
|----------------|-----------------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|-----------------------------------------------------------------------------------|

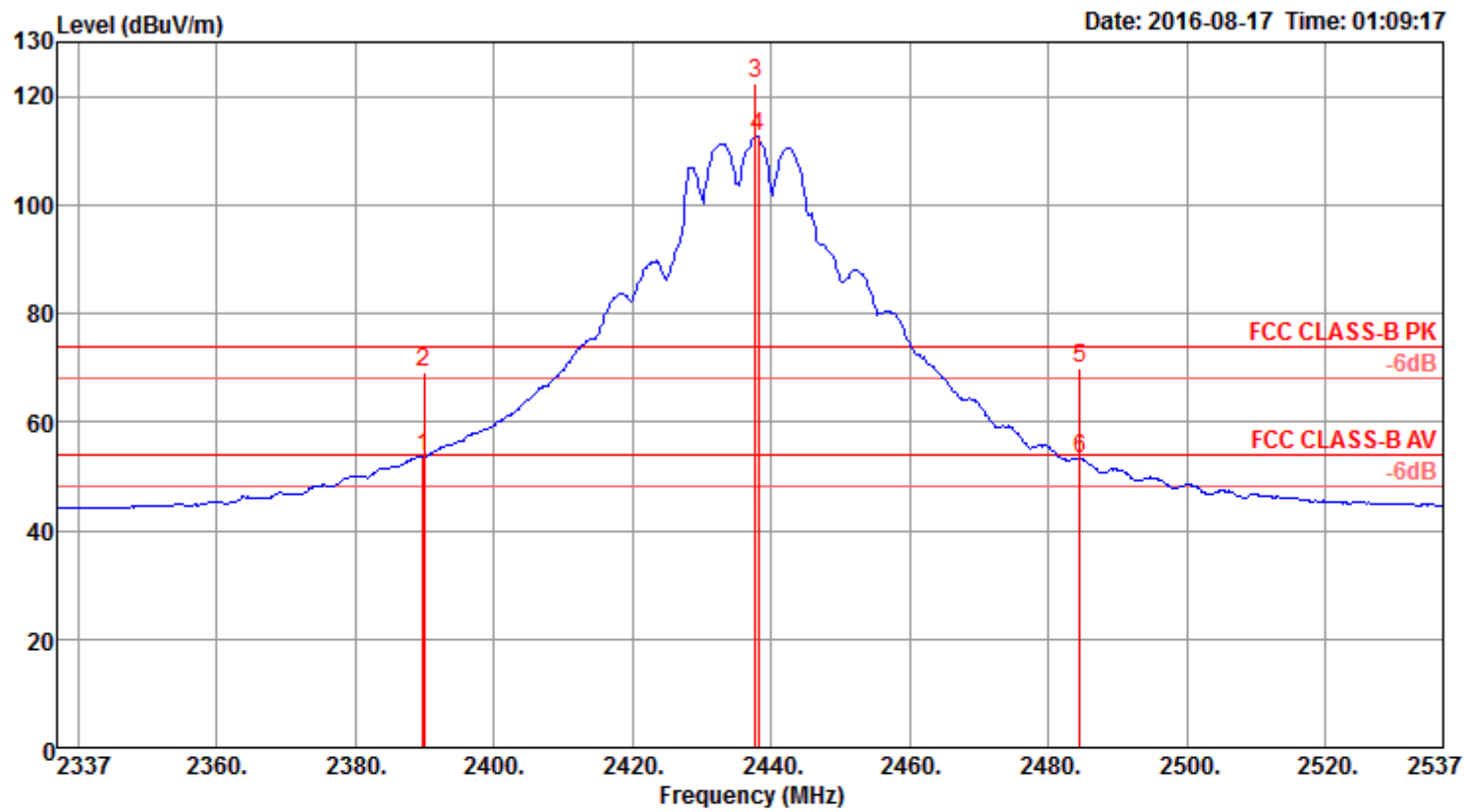
Channel 1



|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 2387.80 | 73.84  | 74.00  | -0.16 | 41.92 | 3.90         | 28.02  | 0.00  | 229   | 352    | Peak      |
| 2 | 2388.60 | 53.56  | 54.00  | -0.44 | 21.64 | 3.90         | 28.02  | 0.00  | 229   | 352    | Average   |
| 3 | 2413.00 | 106.44 |        |       | 74.51 | 3.94         | 27.99  | 0.00  | 229   | 352    | Average   |
| 4 | 2413.20 | 117.24 |        |       | 85.31 | 3.94         | 27.99  | 0.00  | 229   | 352    | Peak      |

Item 3, 4 are the fundamental frequency at 2412 MHz.

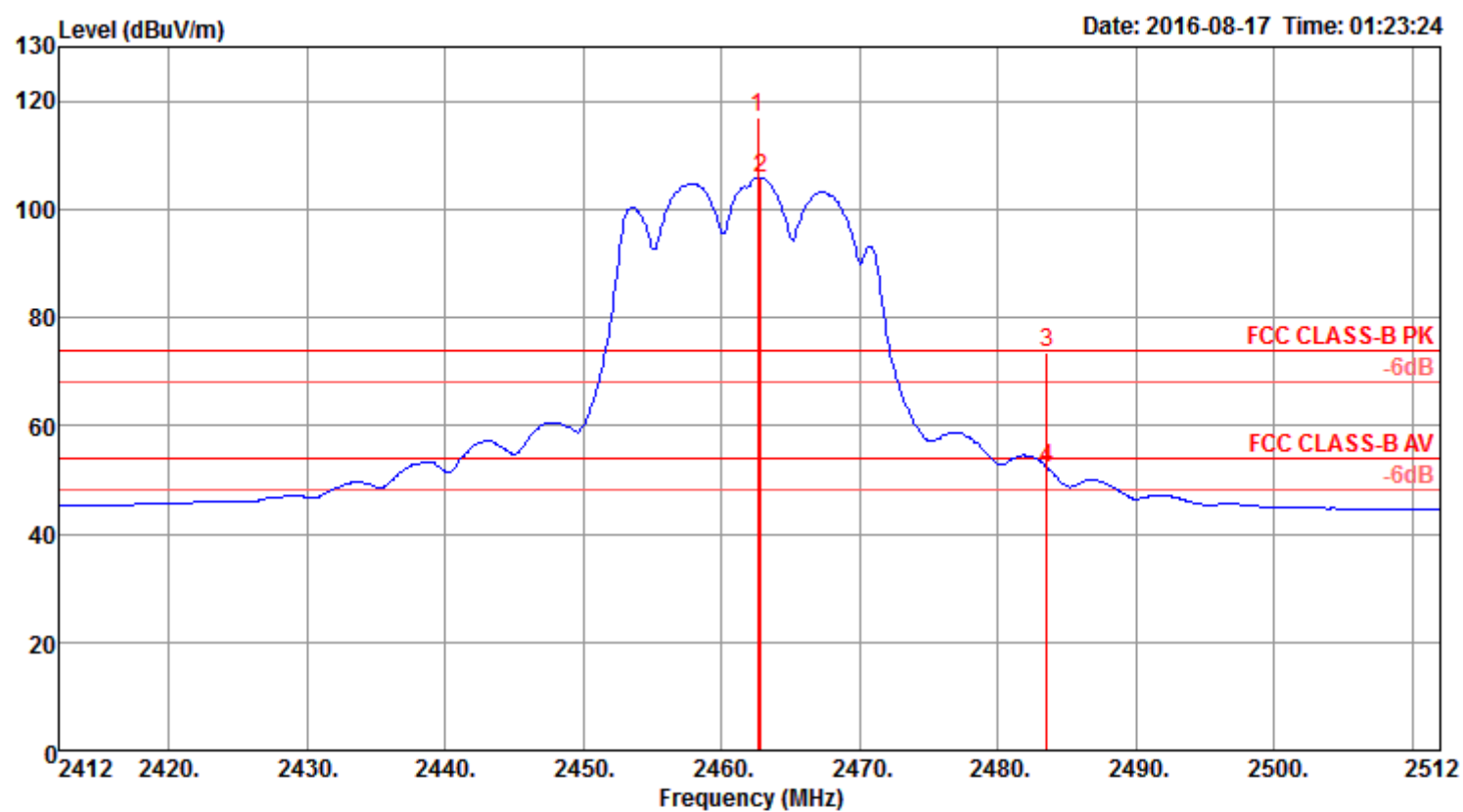
## Channel 6



|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 2389.80 | 53.75  | 54.00  | -0.25 | 21.83 | 3.90         | 28.02  | 0.00  | 139   | 354    | Average   |
| 2 | 2390.00 | 69.05  | 74.00  | -4.95 | 37.13 | 3.90         | 28.02  | 0.00  | 139   | 354    | Peak      |
| 3 | 2437.80 | 122.39 |        |       | 90.45 | 3.97         | 27.97  | 0.00  | 139   | 354    | Peak      |
| 4 | 2438.20 | 112.52 |        |       | 80.58 | 3.97         | 27.97  | 0.00  | 139   | 354    | Average   |
| 5 | 2484.60 | 69.96  | 74.00  | -4.04 | 38.00 | 4.04         | 27.92  | 0.00  | 139   | 354    | Peak      |
| 6 | 2484.60 | 53.28  | 54.00  | -0.72 | 21.32 | 4.04         | 27.92  | 0.00  | 139   | 354    | Average   |

Item 3, 4 are the fundamental frequency at 2437 MHz.

## Channel 11

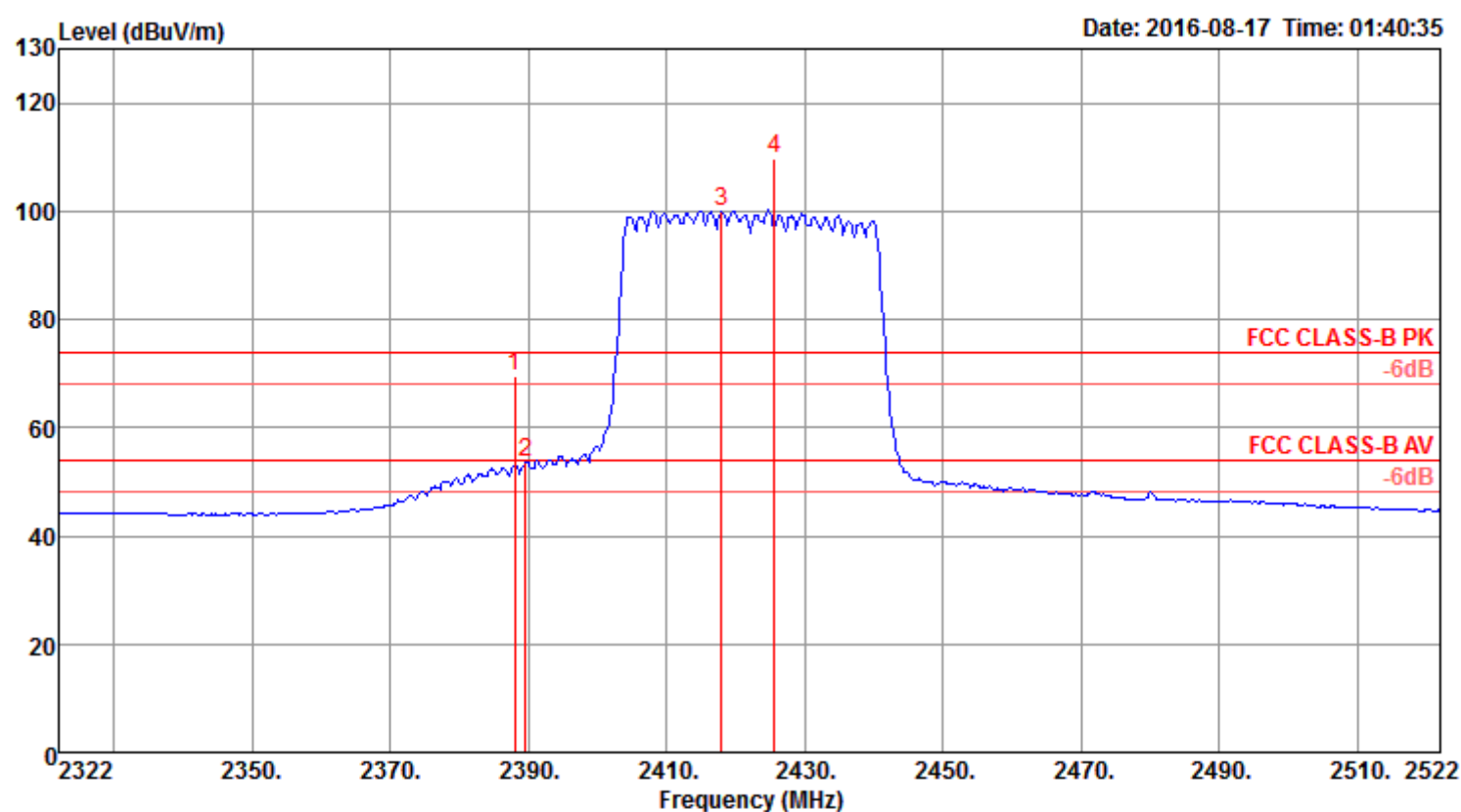


|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 2462.60 | 116.89 |        |       | 84.94 | 4.01         | 27.94  | 0.00  | 274   | 355    | Peak      |
| 2 | 2462.80 | 105.90 |        |       | 73.95 | 4.01         | 27.94  | 0.00  | 274   | 355    | Average   |
| 3 | 2483.50 | 73.48  | 74.00  | -0.52 | 41.52 | 4.04         | 27.92  | 0.00  | 274   | 355    | Peak      |
| 4 | 2483.50 | 52.22  | 54.00  | -1.78 | 20.26 | 4.04         | 27.92  | 0.00  | 274   | 355    | Average   |

Item 1, 2 are the fundamental frequency at 2462 MHz.

|                |                                                                                  |
|----------------|----------------------------------------------------------------------------------|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4 |
|----------------|----------------------------------------------------------------------------------|

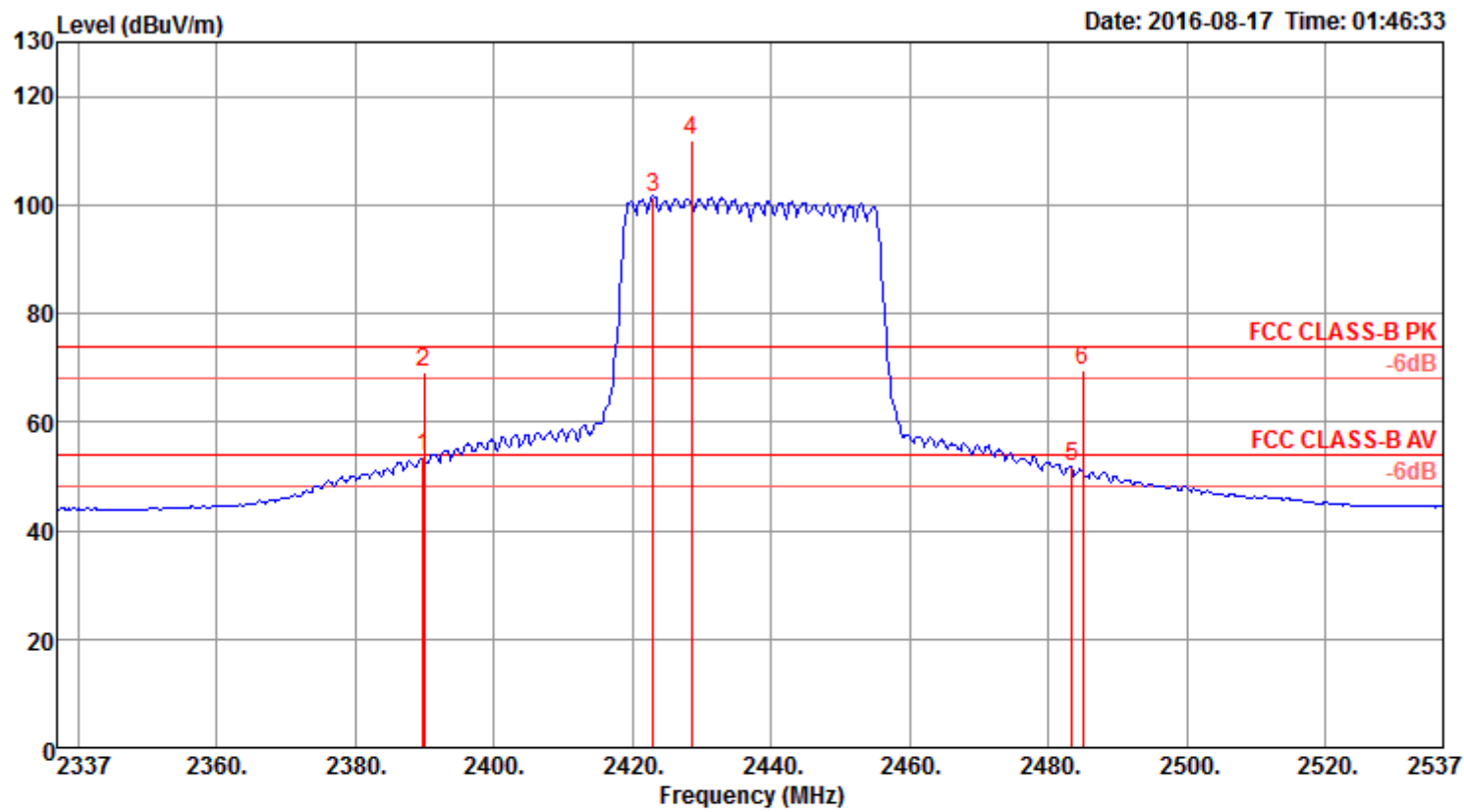
Channel 3



|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 2388.00 | 69.54  | 74.00  | -4.46 | 37.62 | 3.90         | 28.02  | 0.00  | 178   | 359    | Peak      |
| 2 | 2389.60 | 53.62  | 54.00  | -0.38 | 21.70 | 3.90         | 28.02  | 0.00  | 178   | 359    | Average   |
| 3 | 2418.00 | 100.10 |        |       | 68.17 | 3.94         | 27.99  | 0.00  | 178   | 359    | Average   |
| 4 | 2425.60 | 109.84 |        |       | 77.90 | 3.96         | 27.98  | 0.00  | 178   | 359    | Peak      |

Item 3, 4 are the fundamental frequency at 2422 MHz.

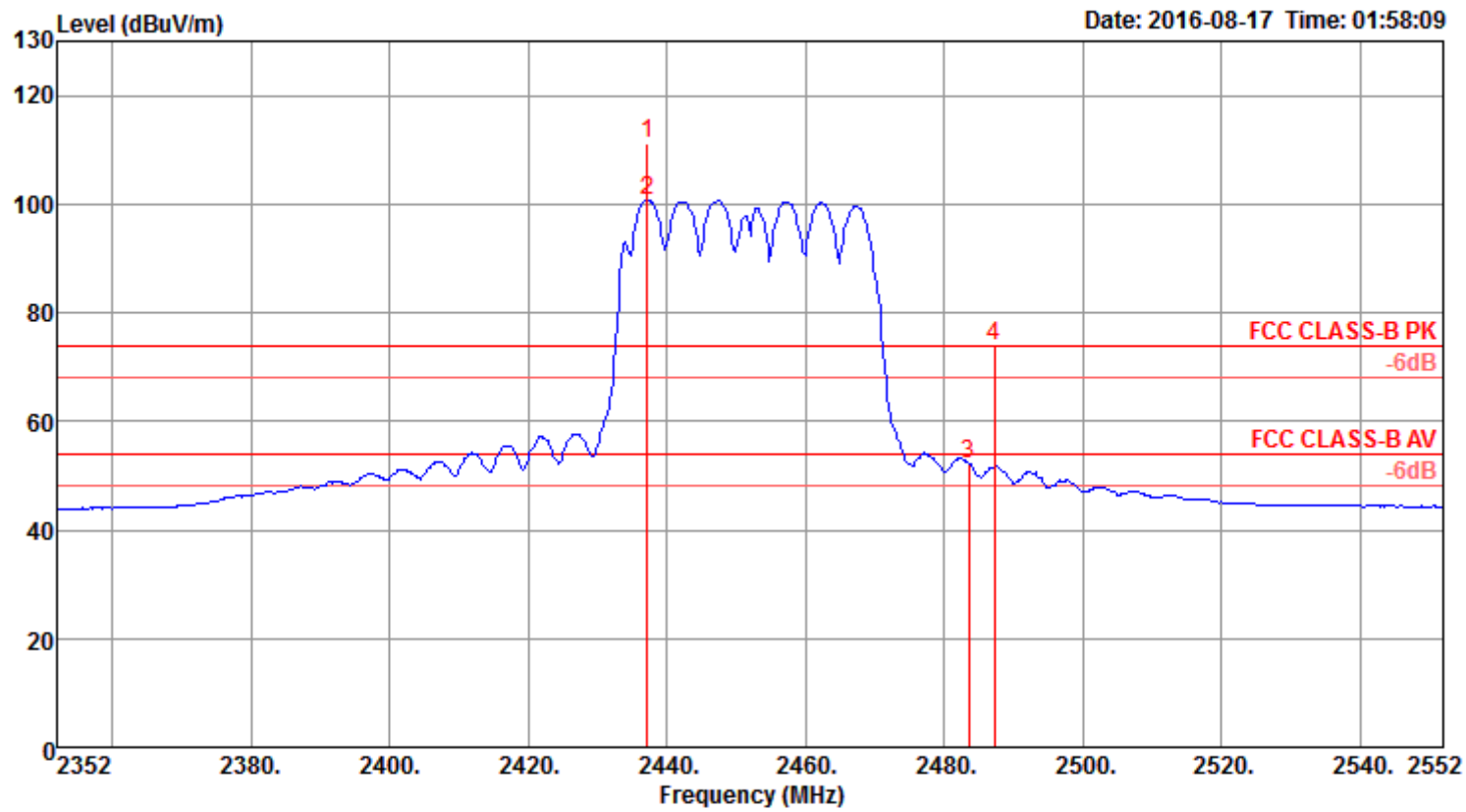
## Channel 6



|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 2389.80 | 53.60  | 54.00  | -0.40 | 21.68 | 3.90         | 28.02  | 0.00  | 236   | 360    | Average   |
| 2 | 2390.00 | 69.17  | 74.00  | -4.83 | 37.25 | 3.90         | 28.02  | 0.00  | 236   | 360    | Peak      |
| 3 | 2423.00 | 101.37 |        |       | 69.43 | 3.95         | 27.99  | 0.00  | 236   | 360    | Average   |
| 4 | 2428.60 | 111.95 |        |       | 80.01 | 3.96         | 27.98  | 0.00  | 236   | 360    | Peak      |
| 5 | 2483.50 | 51.90  | 54.00  | -2.10 | 19.94 | 4.04         | 27.92  | 0.00  | 236   | 360    | Average   |
| 6 | 2485.00 | 69.66  | 74.00  | -4.34 | 37.70 | 4.04         | 27.92  | 0.00  | 236   | 360    | Peak      |

Item 3, 4 are the fundamental frequency at 2437 MHz.

## Channel 9



|   | Freq    | Level  | Limit | Over  | Read  | CableAntenna | Preamp | A/Pos  | T/Pos | Remark | Pol/Phase |
|---|---------|--------|-------|-------|-------|--------------|--------|--------|-------|--------|-----------|
|   | MHz     | dBuV/m | Line  | Limit | Level | Loss         | Factor | Factor | cm    | deg    |           |
| 1 | 2437.20 | 111.20 |       |       | 79.26 | 3.97         | 27.97  | 0.00   | 148   | 360    | Peak      |
| 2 | 2437.20 | 100.81 |       |       | 68.87 | 3.97         | 27.97  | 0.00   | 148   | 360    | Average   |
| 3 | 2483.50 | 51.99  | 54.00 | -2.01 | 20.03 | 4.04         | 27.92  | 0.00   | 148   | 360    | Average   |
| 4 | 2487.20 | 73.87  | 74.00 | -0.13 | 41.91 | 4.04         | 27.92  | 0.00   | 148   | 360    | Peak      |

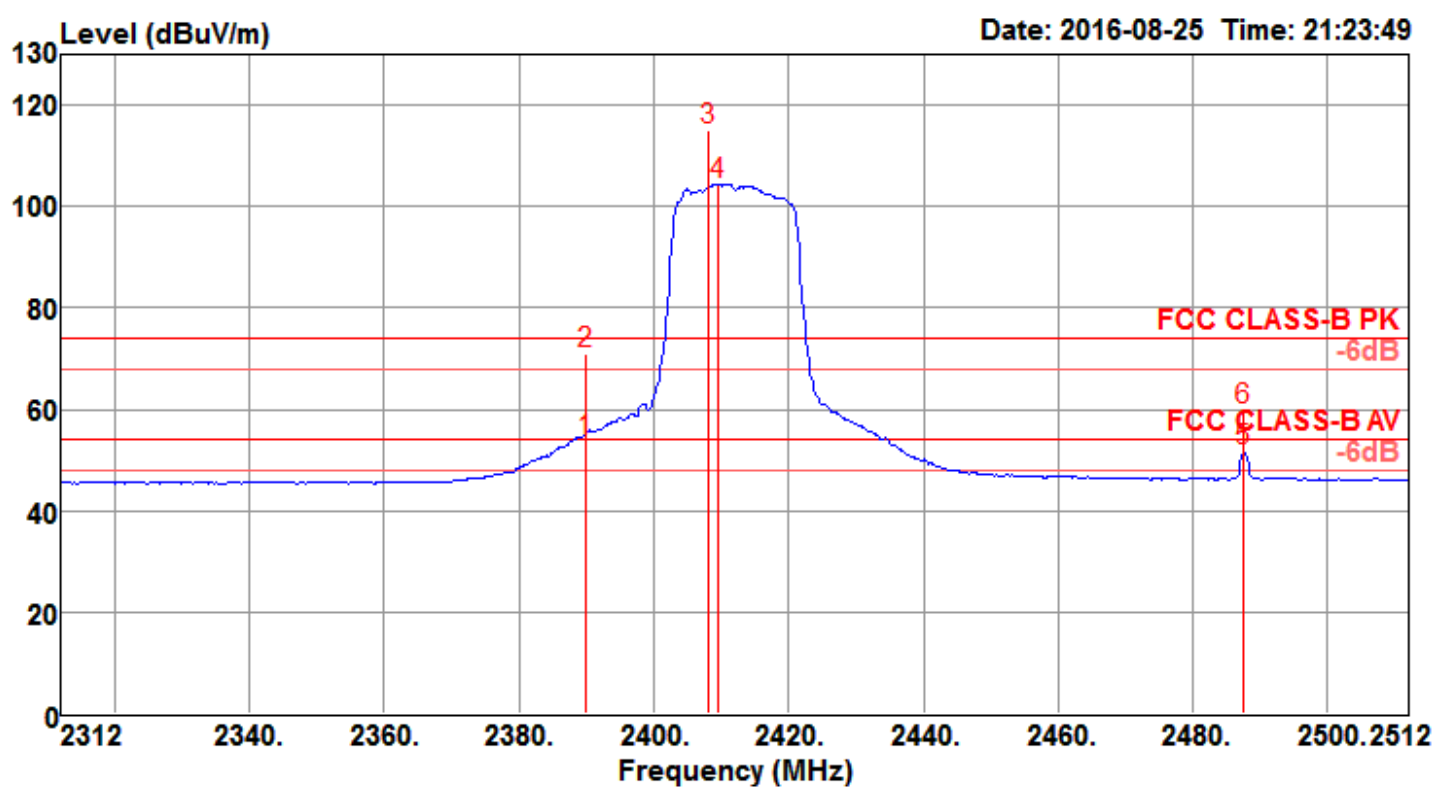
Item 1, 2 are the fundamental frequency at 2452 MHz.

&lt;For Beamforming Mode&gt;

## Configurations

IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4

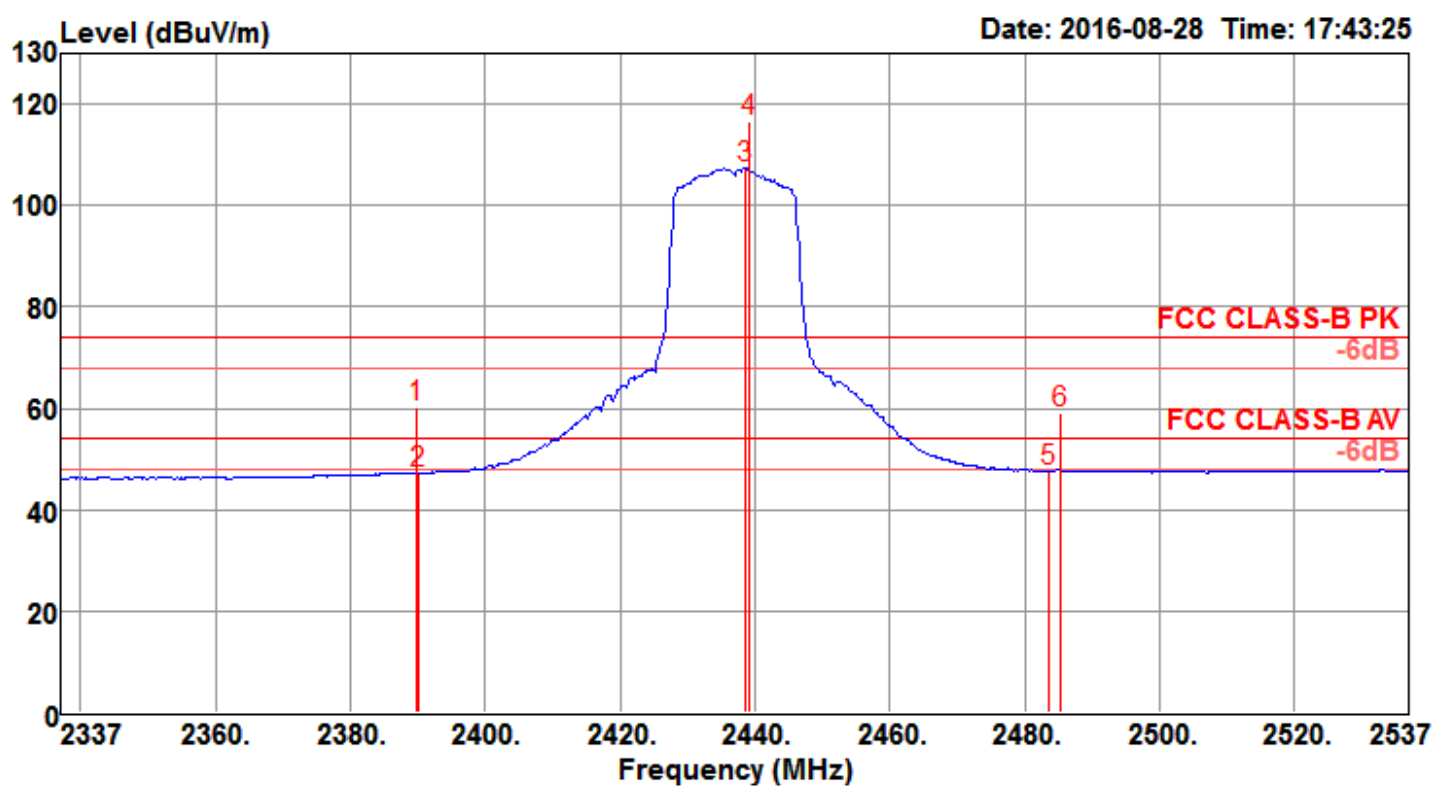
Channel 1



|     | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos  | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|--------|-------|--------------|--------|--------|-------|--------|-----------|
|     | MHz     | dBuV/m | Line   | Limit  | Level | Loss         | Factor | Factor |       |        |           |
|     | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB     | cm    | deg    |           |
| 1   | 2390.00 | 53.52  | 54.00  | -0.48  | 20.41 | 4.54         | 28.57  | 0.00   | 201   | 360    | Average   |
| 2   | 2390.00 | 71.00  | 74.00  | -3.00  | 37.89 | 4.54         | 28.57  | 0.00   | 201   | 360    | Peak      |
| 3 @ | 2408.00 | 115.06 |        |        | 81.88 | 4.57         | 28.61  | 0.00   | 201   | 360    | Peak      |
| 4 @ | 2409.60 | 104.25 |        |        | 71.07 | 4.57         | 28.61  | 0.00   | 201   | 360    | Average   |
| 5   | 2487.60 | 51.79  | 54.00  | -2.21  | 18.39 | 4.63         | 28.77  | 0.00   | 201   | 360    | Average   |
| 6   | 2487.60 | 59.99  | 74.00  | -14.01 | 26.59 | 4.63         | 28.77  | 0.00   | 201   | 360    | Peak      |

Item 3, 4 are the fundamental frequency at 2412 MHz.

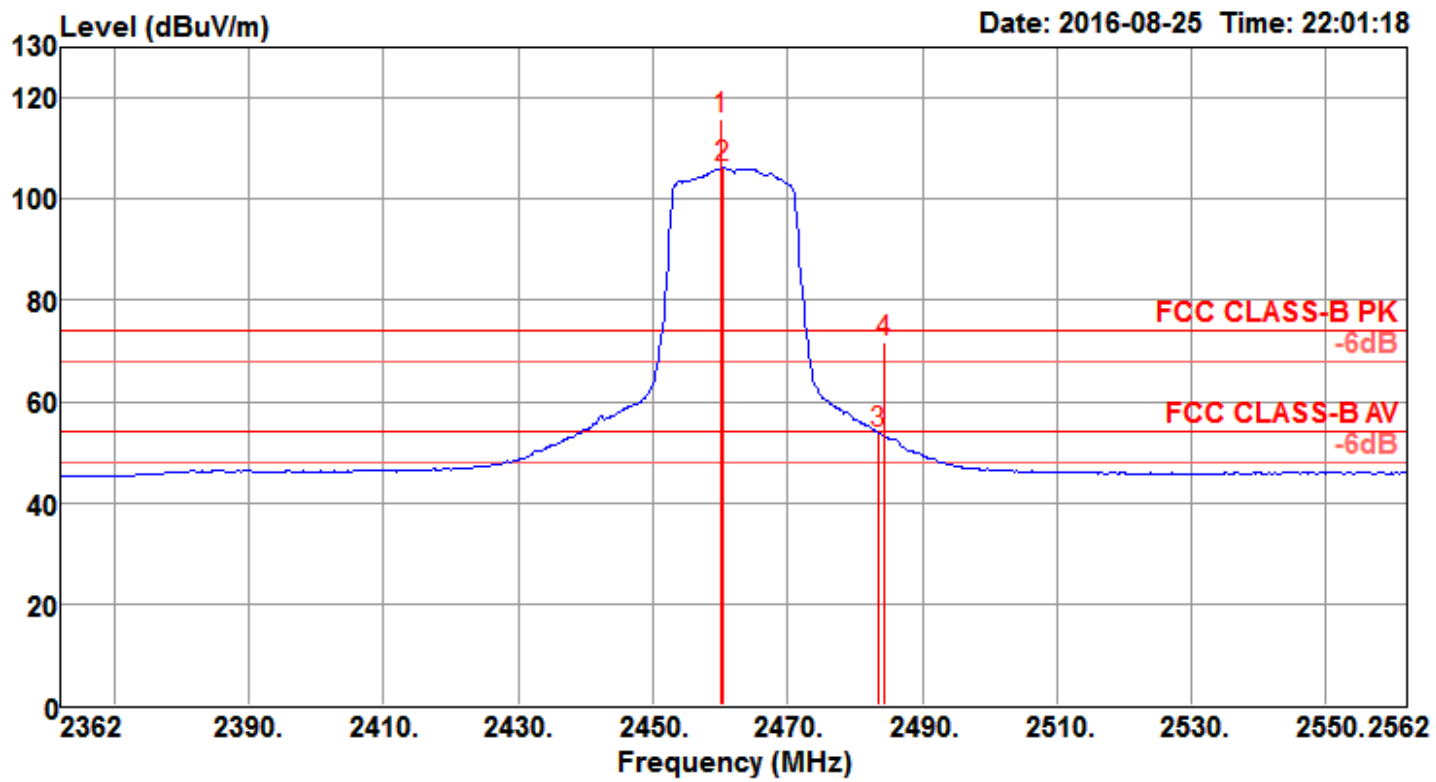
Channel 6



|     | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos  | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|--------|-------|--------------|--------|--------|-------|--------|-----------|
|     | MHz     | dBuV/m | Line   | Limit  | Level | Loss         | Factor | Factor |       |        |           |
|     | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB     | cm    | deg    |           |
| 1   | 2389.68 | 60.06  | 74.00  | -13.94 | 26.95 | 4.54         | 28.57  | 0.00   | 206   | 358    | Peak      |
| 2   | 2390.00 | 47.14  | 54.00  | -6.86  | 14.03 | 4.54         | 28.57  | 0.00   | 206   | 358    | Average   |
| 3 @ | 2438.60 | 107.46 |        |        | 74.20 | 4.59         | 28.67  | 0.00   | 206   | 358    | Peak      |
| 4 @ | 2439.24 | 116.57 |        |        | 83.28 | 4.60         | 28.69  | 0.00   | 206   | 358    | Peak      |
| 5   | 2483.50 | 47.64  | 54.00  | -6.36  | 14.24 | 4.63         | 28.77  | 0.00   | 206   | 358    | Average   |
| 6   | 2485.42 | 59.15  | 74.00  | -14.85 | 25.75 | 4.63         | 28.77  | 0.00   | 206   | 358    | Peak      |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11



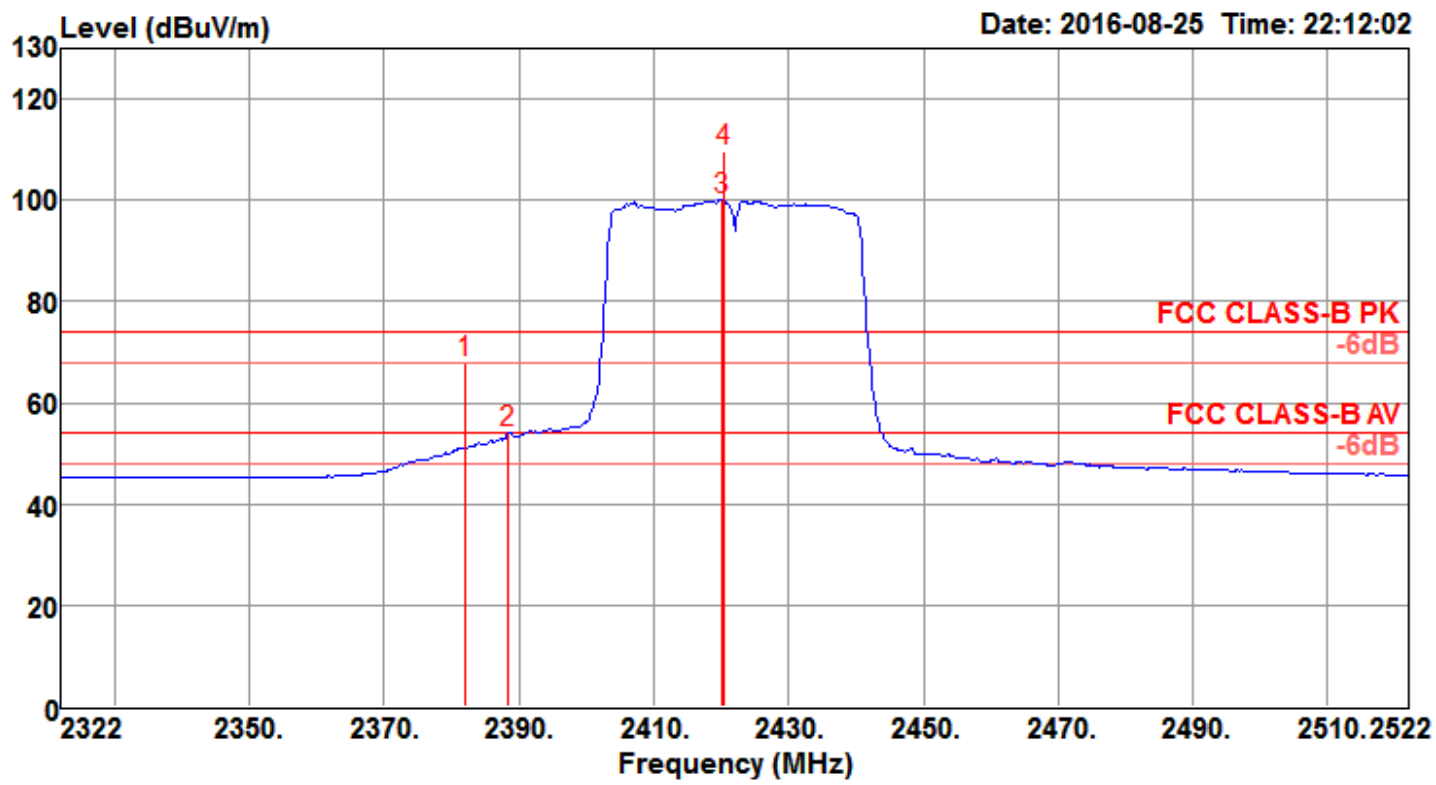
|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark    | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|-----------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg       |           |
| 1 @ | 2460.00 | 115.92 |        |       | 82.60 | 4.61         | 28.71  | 0.00  | 230   | 2 Peak    | VERTICAL  |
| 2 @ | 2460.40 | 106.14 |        |       | 72.82 | 4.61         | 28.71  | 0.00  | 230   | 2 Average | VERTICAL  |
| 3   | 2483.50 | 53.71  | 54.00  | -0.29 | 20.31 | 4.63         | 28.77  | 0.00  | 230   | 2 Average | VERTICAL  |
| 4   | 2484.40 | 71.83  | 74.00  | -2.17 | 38.43 | 4.63         | 28.77  | 0.00  | 230   | 2 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 2462 MHz.

## Configurations

IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4

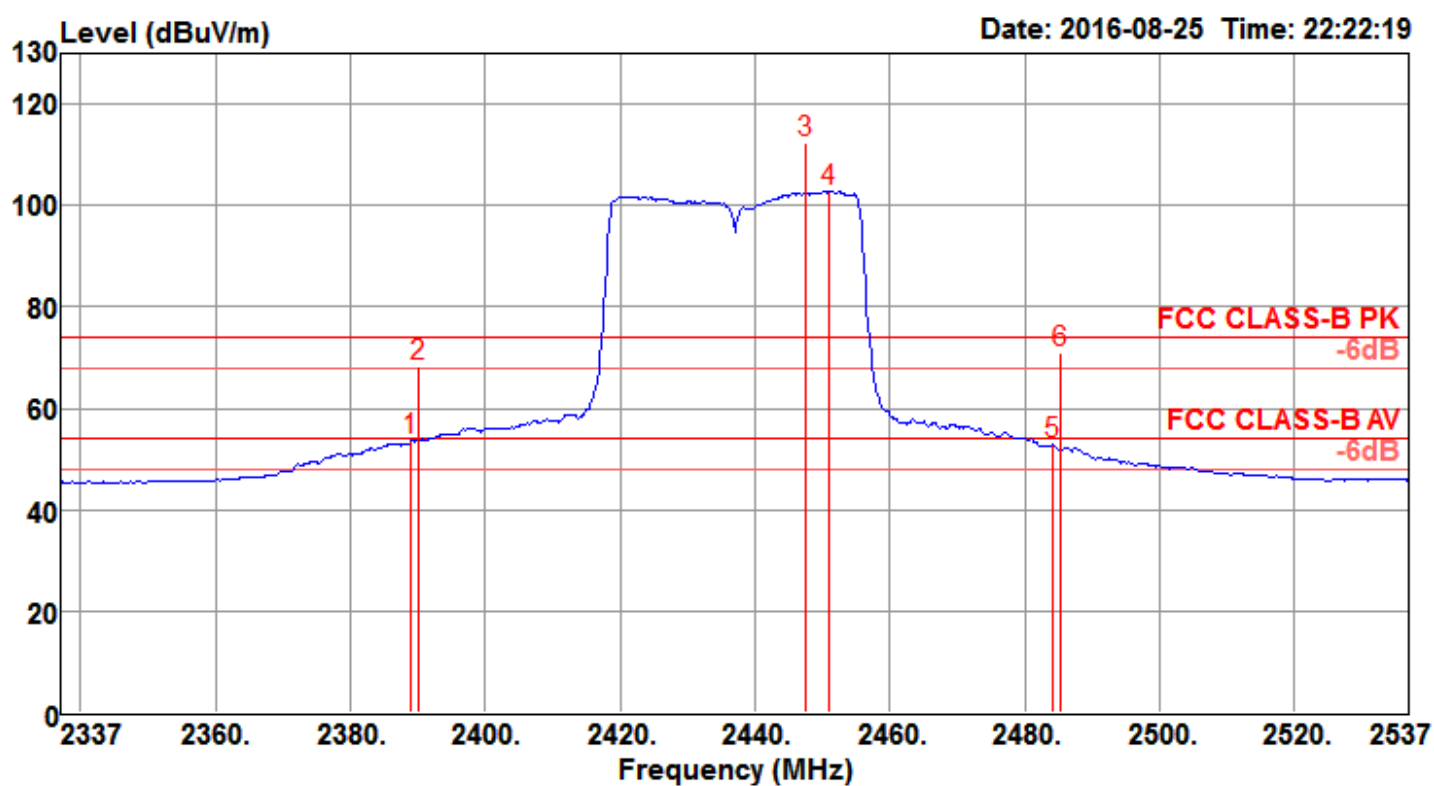
## Channel 3



|     | Freq    | Level  | Limit | Over  | Read  | CableAntenna | Preamp | A/Pos  | T/Pos | Remark    | Pol/Phase |
|-----|---------|--------|-------|-------|-------|--------------|--------|--------|-------|-----------|-----------|
|     | MHz     | dBuV/m | Line  | Limit | Level | Loss         | Factor | Factor | cm    | deg       |           |
| 1   | 2382.00 | 67.76  | 74.00 | -6.24 | 34.66 | 4.54         | 28.56  | 0.00   | 242   | 2 Peak    | VERTICAL  |
| 2   | 2388.40 | 53.91  | 54.00 | -0.09 | 20.80 | 4.54         | 28.57  | 0.00   | 242   | 2 Average | VERTICAL  |
| 3 @ | 2420.00 | 100.03 |       |       | 66.81 | 4.58         | 28.64  | 0.00   | 242   | 2 Average | VERTICAL  |
| 4 @ | 2420.40 | 109.84 |       |       | 76.62 | 4.58         | 28.64  | 0.00   | 242   | 2 Peak    | VERTICAL  |

Item 3, 4 are the fundamental frequency at 2422 MHz.

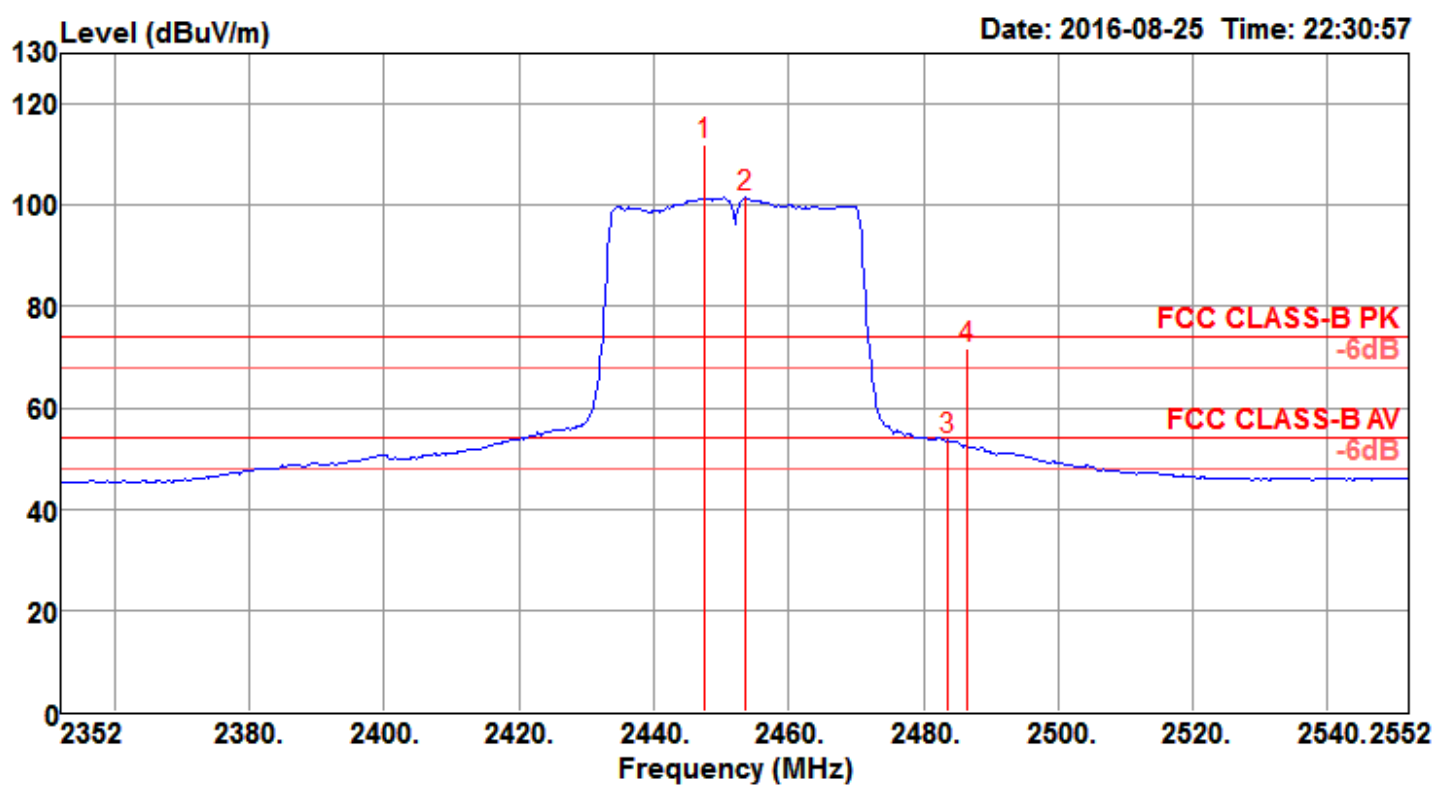
Channel 6



|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark    | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|-----------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg       |           |
| 1   | 2389.00 | 53.64  | 54.00  | -0.36 | 20.53 | 4.54         | 28.57  | 0.00  | 223   | 3 Average | VERTICAL  |
| 2   | 2390.00 | 68.39  | 74.00  | -5.61 | 35.28 | 4.54         | 28.57  | 0.00  | 223   | 3 Peak    | VERTICAL  |
| 3 @ | 2447.40 | 112.50 |        |       | 79.20 | 4.60         | 28.70  | 0.00  | 223   | 3 Peak    | VERTICAL  |
| 4 @ | 2451.00 | 102.90 |        |       | 69.60 | 4.60         | 28.70  | 0.00  | 223   | 3 Average | VERTICAL  |
| 5   | 2484.20 | 52.80  | 54.00  | -1.20 | 19.40 | 4.63         | 28.77  | 0.00  | 223   | 3 Average | VERTICAL  |
| 6   | 2485.40 | 71.06  | 74.00  | -2.94 | 37.66 | 4.63         | 28.77  | 0.00  | 223   | 3 Peak    | VERTICAL  |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



|     | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|--------|-----------|
|     | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 @ | 2447.60 | 111.92 |        |       | 78.62 | 4.60         | 28.70  | 0.00  | 227   | 356    | Peak      |
| 2 @ | 2453.60 | 101.56 |        |       | 68.24 | 4.61         | 28.71  | 0.00  | 227   | 356    | Average   |
| 3   | 2483.50 | 53.52  | 54.00  | -0.48 | 20.12 | 4.63         | 28.77  | 0.00  | 227   | 356    | Average   |
| 4   | 2486.40 | 71.73  | 74.00  | -2.27 | 38.33 | 4.63         | 28.77  | 0.00  | 227   | 356    | Peak      |

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.