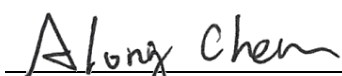


# FCC Test Report

**FCC ID** : I88WX3310-B0  
**Equipment** : Dual-Band Wireless AX Gigabit Access Point / Extender  
**Model No.** : WX3310-B0  
**Brand Name** : ZYXEL  
**Applicant** : Zyxel Communications Corporation  
**Address** : No.2 Industry East RD. IX, Hsinchu Science Park,  
Hsinchu 30075, Taiwan, R.O.C  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Feb. 03, 2020  
**Tested Date** : Feb. 13 ~ May 21, 2020

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



## Table of Contents

|          |                                                             |           |
|----------|-------------------------------------------------------------|-----------|
| <b>1</b> | <b>GENERAL DESCRIPTION .....</b>                            | <b>5</b>  |
| 1.1      | Information.....                                            | 5         |
| 1.2      | Local Support Equipment List .....                          | 9         |
| 1.3      | Test Setup Chart .....                                      | 10        |
| 1.4      | The Equipment List .....                                    | 11        |
| 1.5      | Test Standards .....                                        | 13        |
| 1.6      | Deviation from Test Standard and Measurement Procedure..... | 13        |
| 1.7      | Measurement Uncertainty .....                               | 13        |
| <b>2</b> | <b>TEST CONFIGURATION .....</b>                             | <b>14</b> |
| 2.1      | Testing Condition .....                                     | 14        |
| 2.2      | The Worst Test Modes and Channel Details .....              | 14        |
| <b>3</b> | <b>TRANSMITTER TEST RESULTS.....</b>                        | <b>15</b> |
| 3.1      | Conducted Emissions.....                                    | 15        |
| 3.2      | 6dB and Occupied Bandwidth .....                            | 18        |
| 3.3      | RF Output Power .....                                       | 24        |
| 3.4      | Power Spectral Density .....                                | 27        |
| 3.5      | Unwanted Emissions into Restricted Frequency Bands .....    | 36        |
| 3.6      | Emissions in Non-Restricted Frequency Bands.....            | 64        |
| <b>4</b> | <b>TEST LABORATORY INFORMATION .....</b>                    | <b>69</b> |

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## Release Record

| Report No. | Version | Description   | Issued Date   |
|------------|---------|---------------|---------------|
| FR020306AC | Rev. 01 | Initial issue | Jun. 02, 2020 |

## Summary of Test Results

| FCC Rules           | Test Items             | Measured                                                                                     | Result |
|---------------------|------------------------|----------------------------------------------------------------------------------------------|--------|
| 15.207              | Conducted Emissions    | [dBuV]: 19.740MHz<br>33.94 (Margin -16.06dB) - AV                                            | Pass   |
| 15.247(d)<br>15.209 | Radiated Emissions     | [dBuV/m at 3m]: 2390.00MHz<br>53.89 (Margin -0.11dB) – AV                                    | Pass   |
| 15.247(b)(3)        | Maximum Output Power   | Max Power [dBm]:<br><b>Non-beamforming mode</b><br>29.06<br><b>Beamforming mode</b><br>28.06 | Pass   |
| 15.247(a)(2)        | 6dB Bandwidth          | Meet the requirement of limit                                                                | Pass   |
| 15.247(e)           | Power Spectral Density | Meet the requirement of limit                                                                | Pass   |
| 15.203              | Antenna Requirement    | Meet the requirement of limit                                                                | Pass   |

### Declaration of Conformity:

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

### Comments and Explanations:

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

# 1 General Description

## 1.1 Information

### 1.1.1 Specification of the Equipment under Test (EUT)

| RF General Information |                  |                 |                |                                    |                 |
|------------------------|------------------|-----------------|----------------|------------------------------------|-----------------|
| Frequency Range (MHz)  | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N <sub>TX</sub> ) | Data Rate / MCS |
| 2400-2483.5            | b                | 2412-2462       | 1-11 [11]      | 2                                  | 1-11 Mbps       |
| 2400-2483.5            | g                | 2412-2462       | 1-11 [11]      | 2                                  | 6-54 Mbps       |
| 2400-2483.5            | n (HT20)         | 2412-2462       | 1-11 [11]      | 2                                  | MCS 0-15        |
| 2400-2483.5            | n (HT40)         | 2422-2452       | 3-9 [7]        | 2                                  | MCS 0-15        |
| 2400-2483.5            | ax (HE20)        | 2412-2462       | 1-11 [11]      | 2                                  | MCS 0-11        |
| 2400-2483.5            | ax (HE40)        | 2422-2452       | 3-9 [7]        | 2                                  | MCS 0-11        |

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.  
 Note 2: Chip feature :  
         DSSS-DBPSK, DQPSK, CCK modulation  
         OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024 QAM modulation.  
 Note 3: Operating modes of this device are listed as above table.  
 Note 4: 802.11ax supports beamforming function.

### 1.1.2 Antenna Details

| Ant. No. | Model                     | Type | Connector | Antenna Gain (dBi) |
|----------|---------------------------|------|-----------|--------------------|
| 1        | Ant1(RFPCA242309IMLB901)  | PIFA | ipex      | 0                  |
| 2        | Ant2 (RFPCA242311IMLB901) | PIFA | ipex      | 0                  |

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

|                          |                       |
|--------------------------|-----------------------|
| <b>Power Supply Type</b> | 12Vdc from AC adapter |
|--------------------------|-----------------------|

### 1.1.4 Accessories

| Accessories |            |                                                                                                                                                |
|-------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| No.         | Equipment  | Description                                                                                                                                    |
| 1           | AC adapter | Brand: MNC<br>Model: MAUS-1201501801<br>I/P: 100-240Vac, 50/60Hz, 0.5A<br>O/P: 12Vdc, 1.5A<br>Power Line:<br>DC 1.5m non-shielded without core |
| 2           | RJ45 cable | 1.5m non-shielded without core                                                                                                                 |

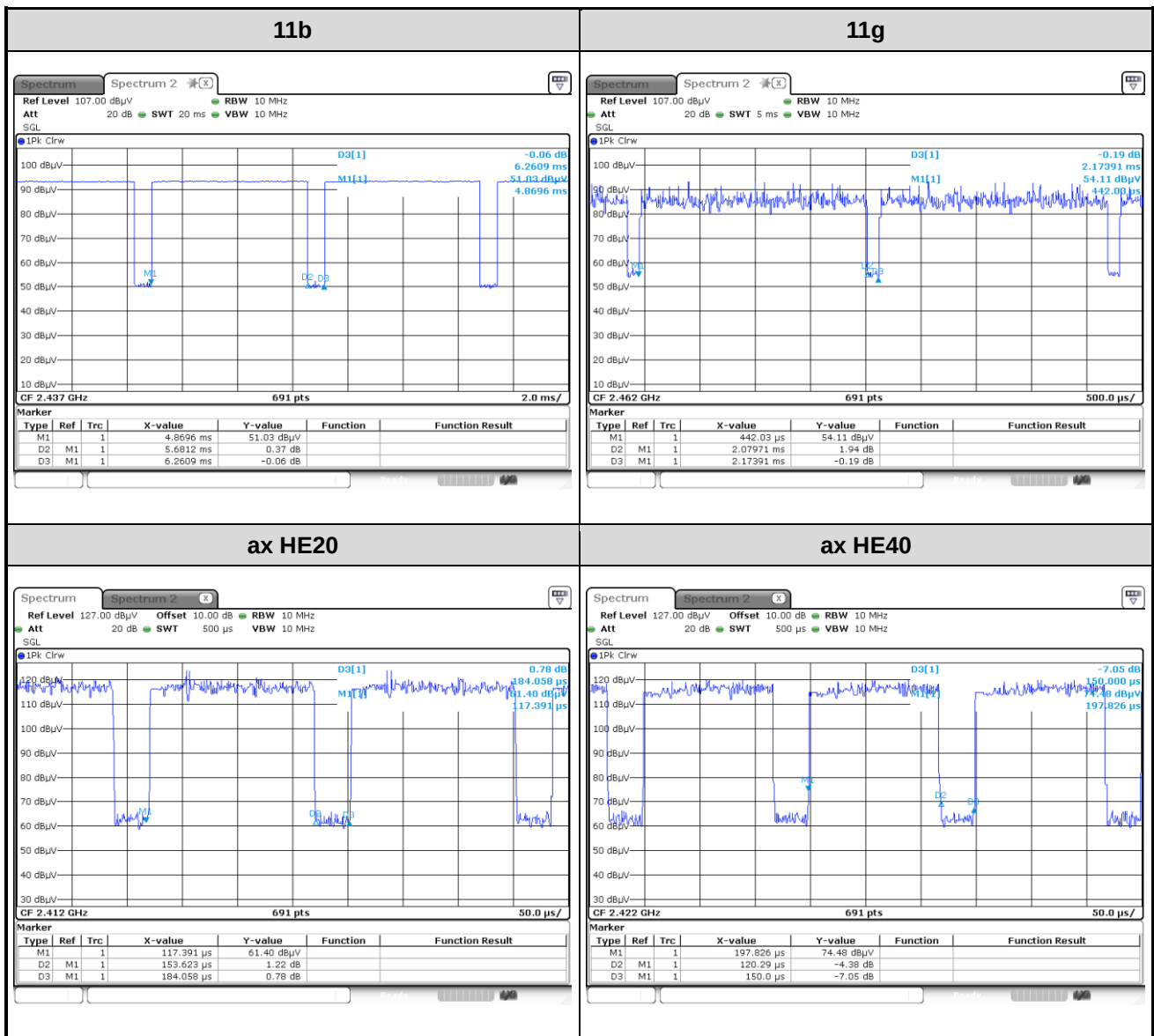
### 1.1.5 Channel List

| Frequency band (MHz)       |                | 2400~2483.5            |                |
|----------------------------|----------------|------------------------|----------------|
| 802.11a / n HT20 / ax HE20 |                | 802.11n HT40 / ax HE40 |                |
| Channel                    | Frequency(MHz) | Channel                | Frequency(MHz) |
| 1                          | 2412           | 3                      | 2422           |
| 2                          | 2417           | 4                      | 2427           |
| 3                          | 2422           | 5                      | 2432           |
| 4                          | 2427           | 6                      | 2437           |
| 5                          | 2432           | 7                      | 2442           |
| 6                          | 2437           | 8                      | 2447           |
| 7                          | 2442           | 9                      | 2452           |
| 8                          | 2447           | ---                    | ---            |
| 9                          | 2452           | ---                    | ---            |
| 10                         | 2457           | ---                    | ---            |
| 11                         | 2462           | ---                    | ---            |

## 1.1.6 Test Tool and Duty Cycle

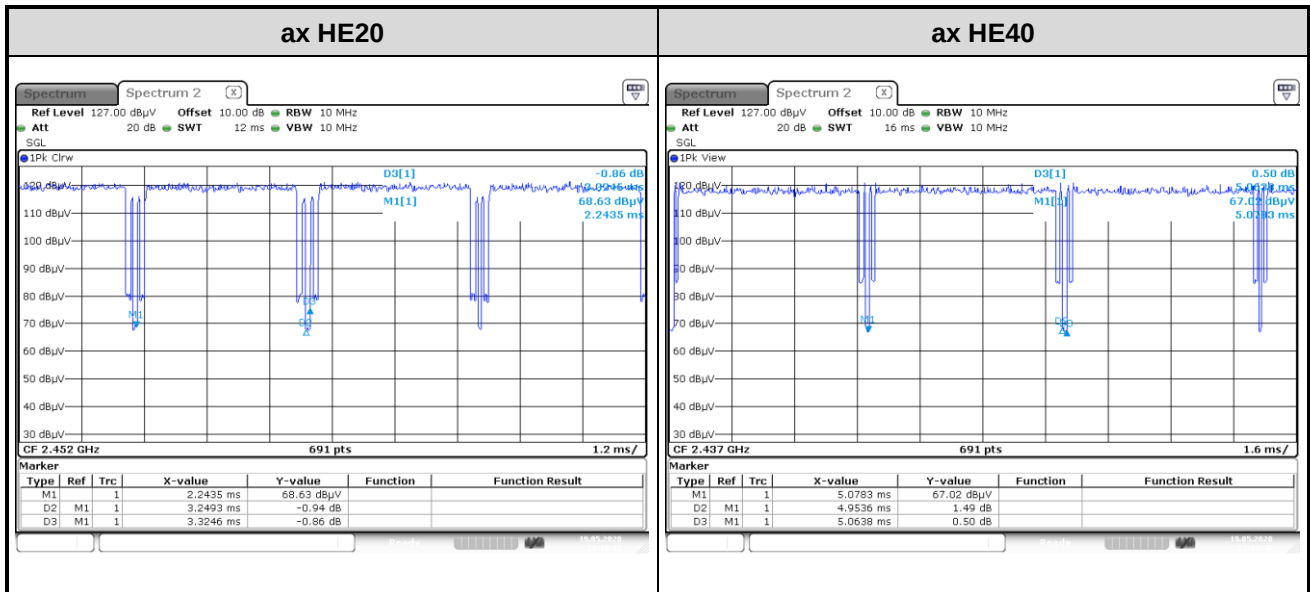
### Non-beamforming mode

| Test Tool                  | Mtool, Version: 3.1.0.4 |                |                  |
|----------------------------|-------------------------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode                    | Duty cycle (%) | Duty factor (dB) |
|                            | 11b                     | 90.74%         | 0.42             |
|                            | 11g                     | 95.67%         | 0.19             |
|                            | ax (HE20)               | 83.47%         | 0.78             |
|                            | ax (HE40)               | 80.19%         | 0.96             |



### Beamforming mode

|                            |                         |                |                  |
|----------------------------|-------------------------|----------------|------------------|
| Test Tool                  | Mtool, Version: 3.1.0.4 |                |                  |
| Duty Cycle and Duty Factor | Mode                    | Duty cycle (%) | Duty factor (dB) |
|                            | ax (HE20)               | 97.74%         | 0.10             |
|                            | ax (HE40)               | 97.82%         | 0.10             |



### 1.1.7 Power Index of Test Tool

| Modulation Mode | Test Frequency (MHz) | Power Index     |             |
|-----------------|----------------------|-----------------|-------------|
|                 |                      | Non-beamforming | Beamforming |
| 11b             | 2412                 | 102             | ---         |
| 11b             | 2437                 | 102             | ---         |
| 11b             | 2462                 | 102             | ---         |
| 11g             | 2412                 | 78              | ---         |
| 11g             | 2437                 | 106             | ---         |
| 11g             | 2462                 | 78              | ---         |
| ax (HE20)       | 2412                 | 74              | 74          |
| ax (HE20)       | 2437                 | 100             | 100         |
| ax (HE20)       | 2462                 | 74              | 74          |
| ax (HE40)       | 2422                 | 66              | 66          |
| ax (HE40)       | 2437                 | 80              | 80          |
| ax (HE40)       | 2452                 | 66              | 66          |



## 1.2 Local Support Equipment List

### *Non-beamforming mode*

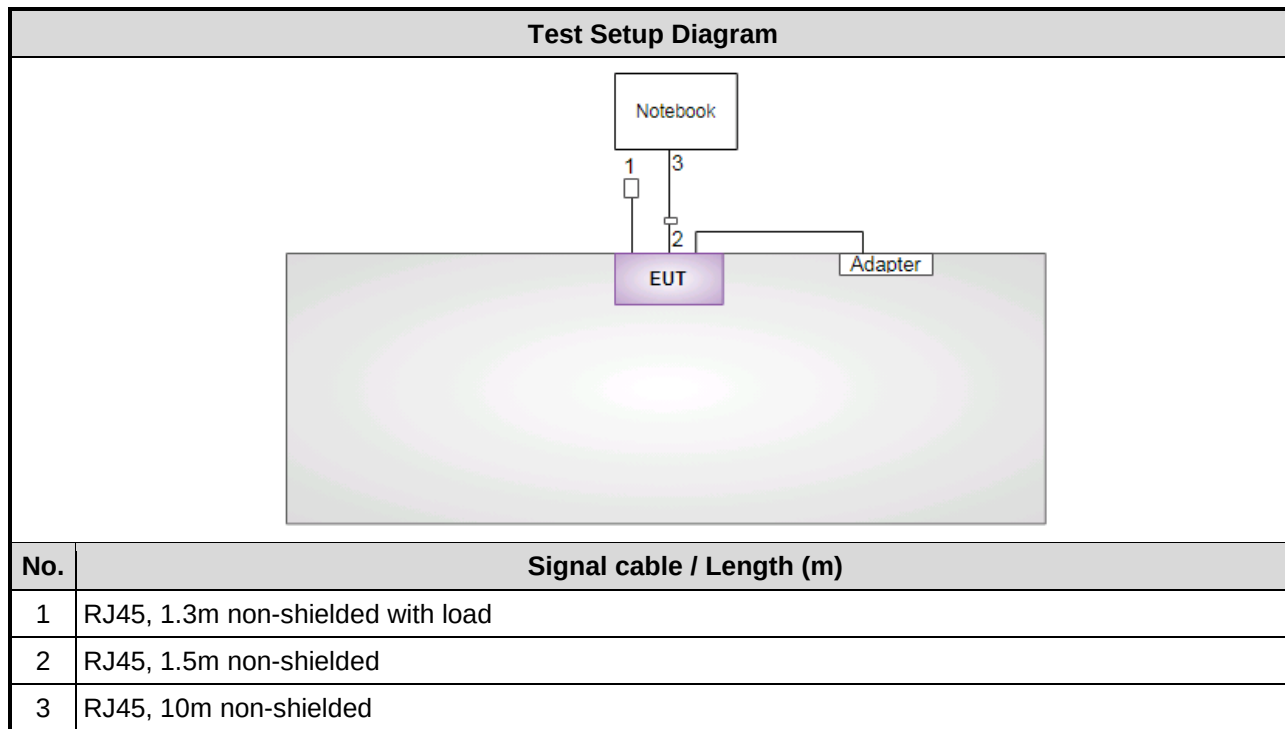
| Support Equipment List |           |       |                |        |         |
|------------------------|-----------|-------|----------------|--------|---------|
| No.                    | Equipment | Brand | Model          | FCC ID | Remarks |
| 1                      | RJ45      | ICC   | RJ45-1.3m      | ---    | ---     |
| 2                      | RJ45      | ICC   | RJ45-10m       | ---    | ---     |
| 3                      | RJ45      | ICC   | RJ45-1.3m      | ---    | ---     |
| 4                      | Notebook  | DELL  | Latitude E6440 | DoC    | ---     |

### *Beamforming mode*

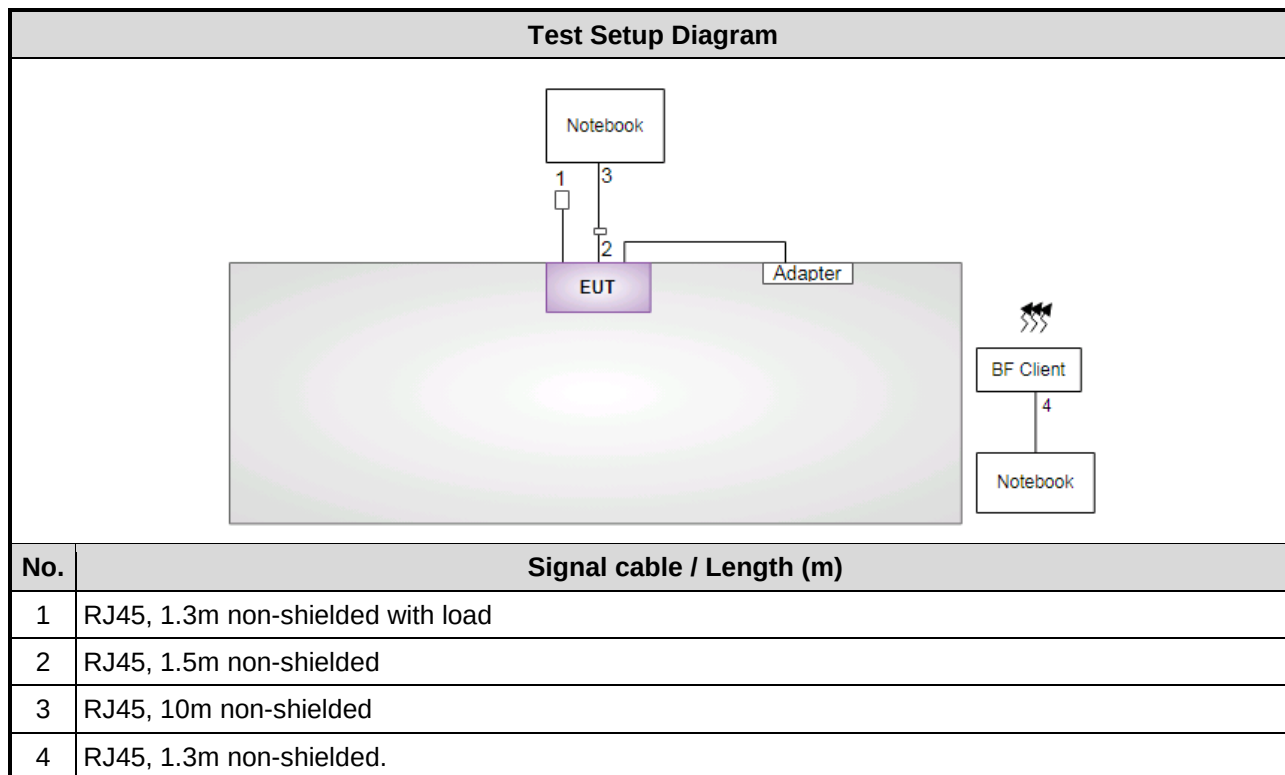
| Support Equipment List |           |       |                |        |                        |
|------------------------|-----------|-------|----------------|--------|------------------------|
| No.                    | Equipment | Brand | Model          | FCC ID | Remarks                |
| 1                      | RJ45      | ICC   | RJ45-1.3m      | ---    | ---                    |
| 2                      | RJ45      | ICC   | RJ45-10m       | ---    | ---                    |
| 3                      | RJ45      | ICC   | RJ45-1.3m      | ---    | ---                    |
| 4                      | BF Client | ZYXEL | WX3310-B0      | ---    | Provided by applicant. |
| 5                      | Notebook  | DELL  | Latitude E6440 | DoC    | ---                    |
| 6                      | Notebook  | DELL  | Latitude E5470 | DoC    | ---                    |

## 1.3 Test Setup Chart

### Non-beamforming mode



### Beamforming mode



## 1.4 The Equipment List

|                                                                     |                               |                  |                   |                         |                          |
|---------------------------------------------------------------------|-------------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Conducted Emission            |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | Conduction room 1 / (CO01-WS) |                  |                   |                         |                          |
| <b>Tested Date</b>                                                  | Mar. 06, 2020                 |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>           | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Receiver                                                            | R&S                           | ESR3             | 101658            | Dec. 12, 2019           | Dec. 11, 2020            |
| LISN                                                                | R&S                           | ENV216           | 101579            | Mar. 08, 2019           | Mar. 07, 2020            |
| RF Cable-CON                                                        | Woken                         | CFD200-NL        | CFD200-NL-001     | Oct. 22, 2019           | Oct. 21, 2020            |
| Measurement Software                                                | AUDIX                         | e3               | 6.120210k         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                               |                  |                   |                         |                          |

|                                                                     |                            |                      |                   |                         |                          |
|---------------------------------------------------------------------|----------------------------|----------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Radiated Emission          |                      |                   |                         |                          |
| <b>Test Site</b>                                                    | 966 chamber1 / (03CH01-WS) |                      |                   |                         |                          |
| <b>Tested Date</b>                                                  | Feb. 13 ~ Apr. 30, 2020    |                      |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>        | <b>Model No.</b>     | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S                        | FSV40                | 101498            | Dec. 17, 2019           | Dec. 16, 2020            |
| Receiver                                                            | R&S                        | ESR3                 | 101658            | Dec. 12, 2019           | Dec. 11, 2020            |
| Bilog Antenna                                                       | SCHWARZBECK                | VULB9168             | VULB9168-522      | Jul. 12, 2019           | Jul. 11, 2020            |
| Horn Antenna 1G-18G                                                 | SCHWARZBECK                | BBHA 9120 D          | BBHA 9120 D 1096  | Dec. 12, 2019           | Dec. 11, 2020            |
| Horn Antenna 18G-40G                                                | SCHWARZBECK                | BBHA 9170            | BBHA 9170517      | Nov. 15, 2019           | Nov. 14, 2020            |
| Loop Antenna                                                        | R&S                        | HFH2-Z2              | 100330            | Nov. 13, 2019           | Nov. 12, 2020            |
| Loop Antenna Cable                                                  | KOAX KABEL                 | 101354-BW            | 101354-BW         | Oct. 07, 2019           | Oct. 06, 2020            |
| Preamplifier                                                        | EMC                        | EMC02325             | 980225            | Jul. 09, 2019           | Jul. 08, 2020            |
| Preamplifier                                                        | Agilent                    | 83017A               | MY39501308        | Oct. 08, 2019           | Oct. 07, 2020            |
| Preamplifier                                                        | EMC                        | EMC184045B           | 980192            | Aug. 01, 2019           | Jul. 31, 2020            |
| RF Cable                                                            | EMC                        | EMC104-SM-SM-8000    | 181106            | Oct. 07, 2019           | Oct. 06, 2020            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104          | MY16019/4         | Oct. 07, 2019           | Oct. 06, 2020            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104          | MY16014/4         | Oct. 07, 2019           | Oct. 06, 2020            |
| LF cable 1M                                                         | EMC                        | EMCCFD400-NM-NM-1000 | 160502            | Oct. 07, 2019           | Oct. 06, 2020            |
| LF cable 3M                                                         | Woken                      | CFD400NL-LW          | CFD400NL-001      | Oct. 07, 2019           | Oct. 06, 2020            |
| LF cable 10M                                                        | Woken                      | CFD400NL-LW          | CFD400NL-002      | Oct. 07, 2019           | Oct. 06, 2020            |
| Measurement Software                                                | AUDIX                      | e3                   | 6.120210g         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                            |                      |                   |                         |                          |

|                                                                     |                     |                  |                   |                         |                          |
|---------------------------------------------------------------------|---------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | RF Conducted        |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | (TH01-WS)           |                  |                   |                         |                          |
| <b>Tested Date</b>                                                  | May 21, 2020        |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S                 | FSV40            | 101063            | Apr. 30, 2020           | Apr. 29, 2021            |
| Spectrum Analyzer                                                   | R&S                 | FSV40            | 101499            | Jan. 09, 2020           | Jan. 08, 2021            |
| TEMP&HUMIDITY CHAMBER                                               | GIANT FORCE         | GCT-225-40-SP-SD | MAF1212-002       | Dec. 12, 2019           | Dec. 11, 2020            |
| Power Meter                                                         | Anritsu             | ML2495A          | 1241002           | Oct. 23, 2019           | Oct. 22, 2020            |
| Power Sensor                                                        | Anritsu             | MA2411B          | 1207366           | Oct. 23, 2019           | Oct. 22, 2020            |
| DC POWER SOURCE                                                     | GW INSTEK           | GPC-6030D        | GES855395         | Oct. 29, 2019           | Oct. 28, 2020            |
| AC POWER SOURCE                                                     | APC                 | AFC-500W         | F312060012        | Dec. 02, 2019           | Dec. 01, 2020            |
| Measurement Software                                                | Sporton             | Sporton_1        | 1.3.30            | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                     |                  |                   |                         |                          |

## 1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

## 1.6 Deviation from Test Standard and Measurement Procedure

None

## 1.7 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ( $k=2$ ))

| Measurement Uncertainty        |                 |
|--------------------------------|-----------------|
| Parameters                     | Uncertainty     |
| Bandwidth                      | $\pm 34.130$ Hz |
| Conducted power                | $\pm 0.808$ dB  |
| Power density                  | $\pm 0.583$ dB  |
| Conducted emission             | $\pm 2.715$ dB  |
| AC conducted emission          | $\pm 2.92$ dB   |
| Radiated emission $\leq 1$ GHz | $\pm 3.41$ dB   |
| Radiated emission $> 1$ GHz    | $\pm 4.59$ dB   |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item          | Test Site | Ambient Condition | Tested By              |
|--------------------|-----------|-------------------|------------------------|
| AC Conduction      | CO01-WS   | 21°C / 59%        | Alex Tsai              |
| Radiated Emissions | 03CH01-WS | 22-23°C / 65%     | Akun Chung<br>Roger Lu |
| RF Conducted       | TH01-WS   | 24°C / 68%        | Aska Huang             |

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

### 2.2 The Worst Test Modes and Channel Details

Non-Beamforming and Beamforming mode had been covered during the pretest of radiated emission. The worst mode is Non-beamforming thus Non-beamforming was tested in radiated emission test item and record in this test report.

#### *Non-beamforming mode*

| Test item                                                           | Modulation Mode                  | Test Frequency (MHz)                                                                 | Data Rate (Mbps) / MCS             | Test Configuration |
|---------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------|------------------------------------|--------------------|
| Conducted Emissions                                                 | 11g                              | 2437                                                                                 | 6 Mbps                             | ---                |
| Radiated Emissions ≤1GHz                                            | 11g                              | 2437                                                                                 | 6 Mbps                             | ---                |
| Maximum Output Power                                                | 11b<br>11g<br>ax HE20<br>ax HE40 | 2412 / 2437 / 2462<br>2412 / 2437 / 2462<br>2412 / 2437 / 2462<br>2422 / 2437 / 2452 | 1 Mbps<br>6 Mbps<br>MCS 0<br>MCS 0 | ---                |
| Maximum Output Power                                                | ax HE20<br>ax HE40               | 2412 / 2437 / 2462<br>2422 / 2437 / 2452                                             | MCS 0<br>MCS 0                     | ---                |
| Radiated Emissions >1GHz<br>6dB bandwidth<br>Power spectral density | 11b<br>11g<br>ax HE20<br>ax HE40 | 2412 / 2437 / 2462<br>2412 / 2437 / 2462<br>2412 / 2437 / 2462<br>2422 / 2437 / 2452 | 1 Mbps<br>6 Mbps<br>MCS 0<br>MCS 0 | ---                |

#### *Beamforming mode*

| Test item              | Modulation Mode    | Test Frequency (MHz)                     | Data Rate (Mbps) / MCS | Test Configuration |
|------------------------|--------------------|------------------------------------------|------------------------|--------------------|
| Maximum Output Power   | ax HE20<br>ax HE40 | 2412 / 2437 / 2462<br>2422 / 2437 / 2452 | MCS 0<br>MCS 0         | ---                |
| Power spectral density | ax HE20<br>ax HE40 | 2412 / 2437 / 2462<br>2422 / 2437 / 2452 | MCS 0<br>MCS 0         | ---                |

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

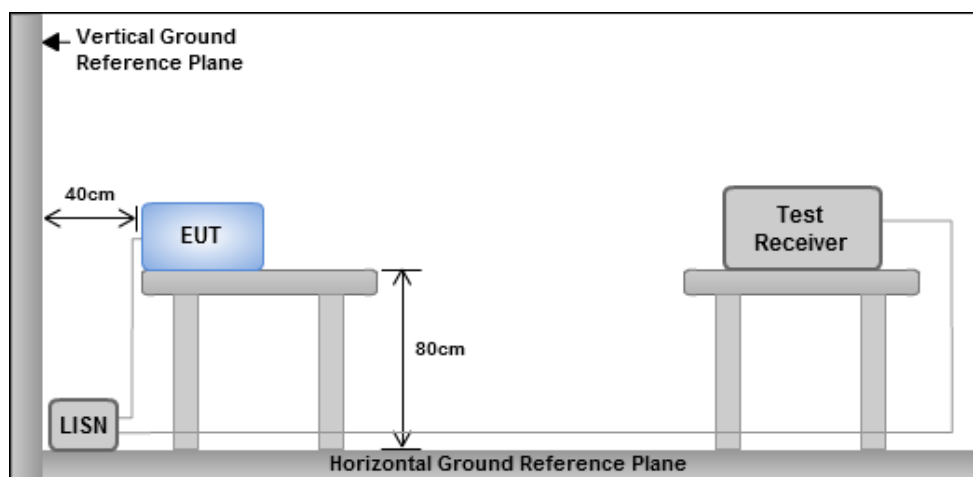
| Conducted Emissions Limit |            |           |
|---------------------------|------------|-----------|
| Frequency Emission (MHz)  | Quasi-Peak | Average   |
| 0.15-0.5                  | 66 - 56 *  | 56 - 46 * |
| 0.5-5                     | 56         | 46        |
| 5-30                   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

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

##### 3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

##### 3.1.3 Test Setup

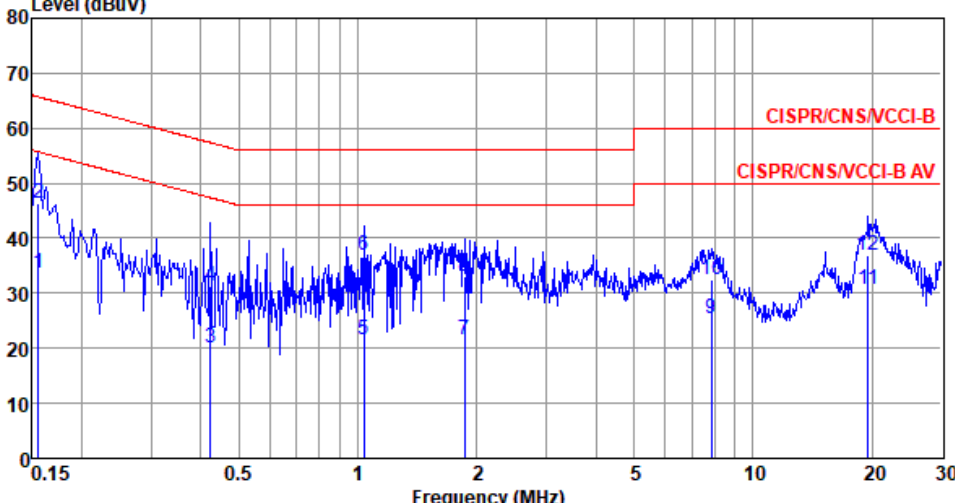


- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11g         | Test Freq. (MHz) | 2437          |                     |                       |                      |                     |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|---------------|---------------------|-----------------------|----------------------|---------------------|---------------------|-----------------------|----------------------|---------------------|--------|---|-------|-------|-------|--------|-------|------|------|---------|---|-------|-------|-------|--------|-------|------|------|----|---|-------|-------|-------|--------|-------|------|------|---------|---|-------|-------|-------|--------|-------|------|------|----|---|-------|-------|-------|--------|-------|------|------|---------|---|-------|-------|-------|--------|-------|------|------|----|---|-------|-------|-------|--------|-------|------|------|---------|---|-------|-------|-------|--------|-------|------|------|----|---|--------|-------|-------|--------|-------|------|------|---------|----|--------|-------|-------|--------|-------|------|------|----|-----|--------|-------|-------|--------|-------|------|------|---------|----|--------|-------|-------|--------|-------|------|------|----|
| Power Phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Line        |                  |               |                     |                       |                      |                     |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| <div><div><div>Level (dBuV)</div><div></div><div>Frequency (MHz)</div></div><table><thead><tr><th></th><th>Freq<br/>MHz</th><th>Level<br/>dBuV</th><th>Limit<br/>dBuV</th><th>Over<br/>Limit<br/>dB</th><th>Read<br/>Level<br/>dBuV</th><th>LISN<br/>factor<br/>dB</th><th>cable<br/>loss<br/>dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.168</td><td>33.43</td><td>55.08</td><td>-21.65</td><td>23.60</td><td>9.61</td><td>0.05</td><td>Average</td></tr><tr><td>2</td><td>0.168</td><td>48.48</td><td>65.08</td><td>-16.60</td><td>38.65</td><td>9.61</td><td>0.05</td><td>QP</td></tr><tr><td>3</td><td>0.521</td><td>20.25</td><td>46.00</td><td>-25.75</td><td>10.29</td><td>9.60</td><td>0.09</td><td>Average</td></tr><tr><td>4</td><td>0.521</td><td>33.20</td><td>56.00</td><td>-22.80</td><td>23.24</td><td>9.60</td><td>0.09</td><td>QP</td></tr><tr><td>5</td><td>1.037</td><td>21.53</td><td>46.00</td><td>-24.47</td><td>11.48</td><td>9.61</td><td>0.12</td><td>Average</td></tr><tr><td>6</td><td>1.037</td><td>38.05</td><td>56.00</td><td>-17.95</td><td>28.00</td><td>9.61</td><td>0.12</td><td>QP</td></tr><tr><td>7</td><td>1.593</td><td>20.32</td><td>46.00</td><td>-25.68</td><td>10.21</td><td>9.62</td><td>0.16</td><td>Average</td></tr><tr><td>8</td><td>1.593</td><td>31.56</td><td>56.00</td><td>-24.44</td><td>21.45</td><td>9.62</td><td>0.16</td><td>QP</td></tr><tr><td>9</td><td>14.986</td><td>27.59</td><td>50.00</td><td>-22.41</td><td>16.78</td><td>9.73</td><td>0.60</td><td>Average</td></tr><tr><td>10</td><td>14.986</td><td>34.79</td><td>60.00</td><td>-25.21</td><td>23.98</td><td>9.73</td><td>0.60</td><td>QP</td></tr><tr><td>11@</td><td>19.740</td><td>33.94</td><td>50.00</td><td>-16.06</td><td>22.95</td><td>9.73</td><td>0.66</td><td>Average</td></tr><tr><td>12</td><td>19.740</td><td>39.81</td><td>60.00</td><td>-20.19</td><td>28.82</td><td>9.73</td><td>0.66</td><td>QP</td></tr></tbody></table></div> |             |                  |               |                     | Freq<br>MHz           | Level<br>dBuV        | Limit<br>dBuV       | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark | 1 | 0.168 | 33.43 | 55.08 | -21.65 | 23.60 | 9.61 | 0.05 | Average | 2 | 0.168 | 48.48 | 65.08 | -16.60 | 38.65 | 9.61 | 0.05 | QP | 3 | 0.521 | 20.25 | 46.00 | -25.75 | 10.29 | 9.60 | 0.09 | Average | 4 | 0.521 | 33.20 | 56.00 | -22.80 | 23.24 | 9.60 | 0.09 | QP | 5 | 1.037 | 21.53 | 46.00 | -24.47 | 11.48 | 9.61 | 0.12 | Average | 6 | 1.037 | 38.05 | 56.00 | -17.95 | 28.00 | 9.61 | 0.12 | QP | 7 | 1.593 | 20.32 | 46.00 | -25.68 | 10.21 | 9.62 | 0.16 | Average | 8 | 1.593 | 31.56 | 56.00 | -24.44 | 21.45 | 9.62 | 0.16 | QP | 9 | 14.986 | 27.59 | 50.00 | -22.41 | 16.78 | 9.73 | 0.60 | Average | 10 | 14.986 | 34.79 | 60.00 | -25.21 | 23.98 | 9.73 | 0.60 | QP | 11@ | 19.740 | 33.94 | 50.00 | -16.06 | 22.95 | 9.73 | 0.66 | Average | 12 | 19.740 | 39.81 | 60.00 | -20.19 | 28.82 | 9.73 | 0.66 | QP |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Freq<br>MHz | Level<br>dBuV    | Limit<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark              |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.168       | 33.43            | 55.08         | -21.65              | 23.60                 | 9.61                 | 0.05                | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.168       | 48.48            | 65.08         | -16.60              | 38.65                 | 9.61                 | 0.05                | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.521       | 20.25            | 46.00         | -25.75              | 10.29                 | 9.60                 | 0.09                | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.521       | 33.20            | 56.00         | -22.80              | 23.24                 | 9.60                 | 0.09                | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.037       | 21.53            | 46.00         | -24.47              | 11.48                 | 9.61                 | 0.12                | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.037       | 38.05            | 56.00         | -17.95              | 28.00                 | 9.61                 | 0.12                | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.593       | 20.32            | 46.00         | -25.68              | 10.21                 | 9.62                 | 0.16                | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.593       | 31.56            | 56.00         | -24.44              | 21.45                 | 9.62                 | 0.16                | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14.986      | 27.59            | 50.00         | -22.41              | 16.78                 | 9.73                 | 0.60                | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14.986      | 34.79            | 60.00         | -25.21              | 23.98                 | 9.73                 | 0.60                | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 11@                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19.740      | 33.94            | 50.00         | -16.06              | 22.95                 | 9.73                 | 0.66                | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19.740      | 39.81            | 60.00         | -20.19              | 28.82                 | 9.73                 | 0.66                | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| <div>Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).<br/>2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                  |               |                     |                       |                      |                     |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |     |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |



| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11g         | Test Freq. (MHz) | 2437                  |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|--------|---|-------|-------|-------|--------|-------|------|------|---------|---|-------|-------|-------|--------|-------|------|------|----|---|-------|-------|-------|--------|-------|------|------|---------|---|-------|-------|-------|--------|-------|------|------|----|---|-------|-------|-------|--------|-------|------|------|---------|---|-------|-------|-------|--------|-------|------|------|----|---|-------|-------|-------|--------|-------|------|------|---------|---|-------|-------|-------|--------|-------|------|------|----|---|-------|-------|-------|--------|-------|------|------|---------|----|-------|-------|-------|--------|-------|------|------|----|----|--------|-------|-------|--------|-------|------|------|---------|----|--------|-------|-------|--------|-------|------|------|----|
| Power Phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Neutral     |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| <div><div><div>Level (dBuV)</div><div></div><div>Frequency (MHz)</div></div><table><thead><tr><th></th><th>Freq<br/>MHz</th><th>Level<br/>dBuV</th><th>Limit<br/>Line<br/>dBuV</th><th>Over<br/>Limit<br/>dB</th><th>Read<br/>Level<br/>dBuV</th><th>LISN<br/>factor<br/>dB</th><th>cable<br/>loss<br/>dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.156</td><td>33.63</td><td>55.69</td><td>-22.06</td><td>23.88</td><td>9.58</td><td>0.05</td><td>Average</td></tr><tr><td>2</td><td>0.156</td><td>46.33</td><td>65.69</td><td>-19.36</td><td>36.58</td><td>9.58</td><td>0.05</td><td>QP</td></tr><tr><td>3</td><td>0.424</td><td>20.03</td><td>47.37</td><td>-27.34</td><td>10.21</td><td>9.57</td><td>0.08</td><td>Average</td></tr><tr><td>4</td><td>0.424</td><td>31.38</td><td>57.37</td><td>-25.99</td><td>21.56</td><td>9.57</td><td>0.08</td><td>QP</td></tr><tr><td>5</td><td>1.037</td><td>21.44</td><td>46.00</td><td>-24.56</td><td>11.54</td><td>9.58</td><td>0.12</td><td>Average</td></tr><tr><td>6</td><td>1.037</td><td>36.98</td><td>56.00</td><td>-19.02</td><td>27.08</td><td>9.58</td><td>0.12</td><td>QP</td></tr><tr><td>7</td><td>1.858</td><td>21.58</td><td>46.00</td><td>-24.42</td><td>11.57</td><td>9.59</td><td>0.17</td><td>Average</td></tr><tr><td>8</td><td>1.858</td><td>33.09</td><td>56.00</td><td>-22.91</td><td>23.08</td><td>9.59</td><td>0.17</td><td>QP</td></tr><tr><td>9</td><td>7.852</td><td>25.48</td><td>50.00</td><td>-24.52</td><td>15.11</td><td>9.70</td><td>0.36</td><td>Average</td></tr><tr><td>10</td><td>7.852</td><td>32.60</td><td>60.00</td><td>-27.40</td><td>22.23</td><td>9.70</td><td>0.36</td><td>QP</td></tr><tr><td>11</td><td>19.532</td><td>30.62</td><td>50.00</td><td>-19.38</td><td>19.63</td><td>9.83</td><td>0.65</td><td>Average</td></tr><tr><td>12</td><td>19.532</td><td>36.87</td><td>60.00</td><td>-23.13</td><td>25.88</td><td>9.83</td><td>0.65</td><td>QP</td></tr></tbody></table></div> |             |                  |                       |                     | Freq<br>MHz           | Level<br>dBuV        | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark | 1 | 0.156 | 33.63 | 55.69 | -22.06 | 23.88 | 9.58 | 0.05 | Average | 2 | 0.156 | 46.33 | 65.69 | -19.36 | 36.58 | 9.58 | 0.05 | QP | 3 | 0.424 | 20.03 | 47.37 | -27.34 | 10.21 | 9.57 | 0.08 | Average | 4 | 0.424 | 31.38 | 57.37 | -25.99 | 21.56 | 9.57 | 0.08 | QP | 5 | 1.037 | 21.44 | 46.00 | -24.56 | 11.54 | 9.58 | 0.12 | Average | 6 | 1.037 | 36.98 | 56.00 | -19.02 | 27.08 | 9.58 | 0.12 | QP | 7 | 1.858 | 21.58 | 46.00 | -24.42 | 11.57 | 9.59 | 0.17 | Average | 8 | 1.858 | 33.09 | 56.00 | -22.91 | 23.08 | 9.59 | 0.17 | QP | 9 | 7.852 | 25.48 | 50.00 | -24.52 | 15.11 | 9.70 | 0.36 | Average | 10 | 7.852 | 32.60 | 60.00 | -27.40 | 22.23 | 9.70 | 0.36 | QP | 11 | 19.532 | 30.62 | 50.00 | -19.38 | 19.63 | 9.83 | 0.65 | Average | 12 | 19.532 | 36.87 | 60.00 | -23.13 | 25.88 | 9.83 | 0.65 | QP |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Freq<br>MHz | Level<br>dBuV    | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB   | Remark              |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.156       | 33.63            | 55.69                 | -22.06              | 23.88                 | 9.58                 | 0.05                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.156       | 46.33            | 65.69                 | -19.36              | 36.58                 | 9.58                 | 0.05                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.424       | 20.03            | 47.37                 | -27.34              | 10.21                 | 9.57                 | 0.08                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.424       | 31.38            | 57.37                 | -25.99              | 21.56                 | 9.57                 | 0.08                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.037       | 21.44            | 46.00                 | -24.56              | 11.54                 | 9.58                 | 0.12                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.037       | 36.98            | 56.00                 | -19.02              | 27.08                 | 9.58                 | 0.12                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.858       | 21.58            | 46.00                 | -24.42              | 11.57                 | 9.59                 | 0.17                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.858       | 33.09            | 56.00                 | -22.91              | 23.08                 | 9.59                 | 0.17                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7.852       | 25.48            | 50.00                 | -24.52              | 15.11                 | 9.70                 | 0.36                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7.852       | 32.60            | 60.00                 | -27.40              | 22.23                 | 9.70                 | 0.36                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 19.532      | 30.62            | 50.00                 | -19.38              | 19.63                 | 9.83                 | 0.65                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 19.532      | 36.87            | 60.00                 | -23.13              | 25.88                 | 9.83                 | 0.65                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |
| Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).<br>2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |        |       |       |        |       |      |      |         |    |        |       |       |        |       |      |      |    |

## 3.2 6dB and Occupied Bandwidth

### 3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

### 3.2.2 Test Procedures

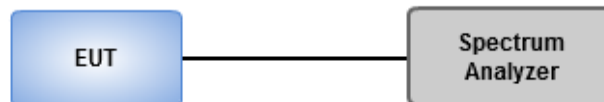
#### 6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

#### Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

### 3.2.3 Test Setup



### 3.2.4 Test Result of 6dB and Occupied Bandwidth

#### Summary

| Mode                              | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|-----------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz                     | -                | -               | -        | -                | -               |
| 802.11b_Nss1,(1Mbps)_2TX          | 7.101M           | 11.288M         | 11M3G1D  | 6.087M           | 10.42M          |
| 802.11g_Nss1,(6Mbps)_2TX          | 16.377M          | 19.103M         | 19M1D1D  | 16.377M          | 16.643M         |
| 802.11ax<br>HEW20_Nss1,(MCS0)_2TX | 18.333M          | 19.03M          | 19M0D1D  | 17.754M          | 18.886M         |
| 802.11ax<br>HEW40_Nss1,(MCS0)_2TX | 37.681M          | 37.627M         | 37M6D1D  | 36.377M          | 37.482M         |

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

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

#### Result

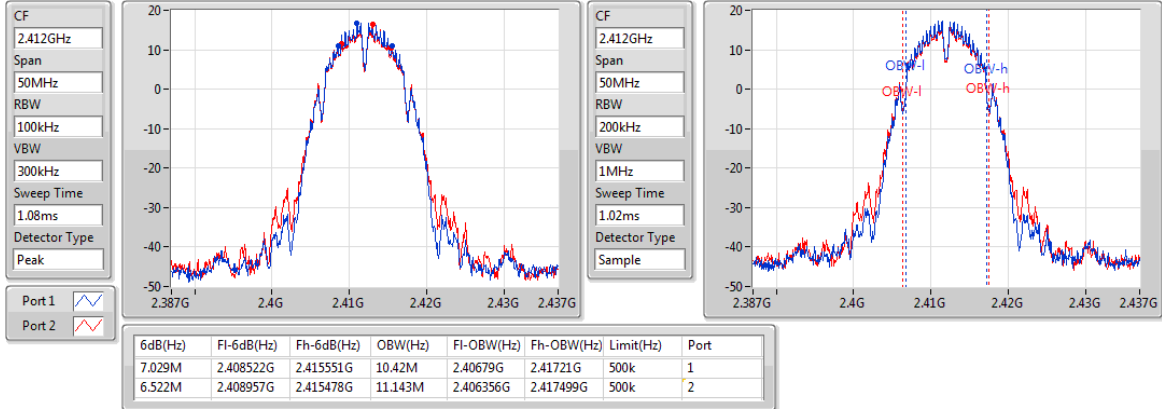
| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_2TX       | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 7.029M              | 10.42M             | 6.522M              | 11.143M            |
| 2437MHz                        | Pass   | 500k          | 7.101M              | 10.42M             | 6.087M              | 11.143M            |
| 2462MHz                        | Pass   | 500k          | 6.522M              | 10.42M             | 6.522M              | 11.288M            |
| 802.11g_Nss1,(6Mbps)_2TX       | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 16.377M             | 16.643M            | 16.377M             | 16.643M            |
| 2437MHz                        | Pass   | 500k          | 16.377M             | 18.379M            | 16.377M             | 19.103M            |
| 2462MHz                        | Pass   | 500k          | 16.377M             | 16.643M            | 16.377M             | 16.643M            |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                        | Pass   | 500k          | 17.754M             | 18.958M            | 18.116M             | 18.886M            |
| 2437MHz                        | Pass   | 500k          | 17.826M             | 19.03M             | 18.116M             | 19.03M             |
| 2462MHz                        | Pass   | 500k          | 17.754M             | 18.958M            | 18.333M             | 18.958M            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 2422MHz                        | Pass   | 500k          | 37.681M             | 37.482M            | 36.377M             | 37.627M            |
| 2437MHz                        | Pass   | 500k          | 37.681M             | 37.627M            | 37.391M             | 37.627M            |
| 2452MHz                        | Pass   | 500k          | 37.681M             | 37.627M            | 36.522M             | 37.627M            |

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

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

EBW

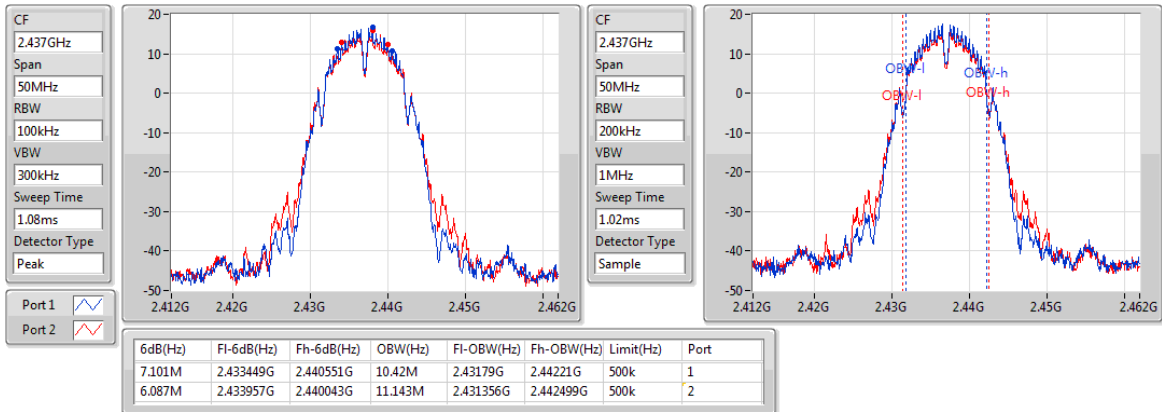
2412MHz



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

EBW

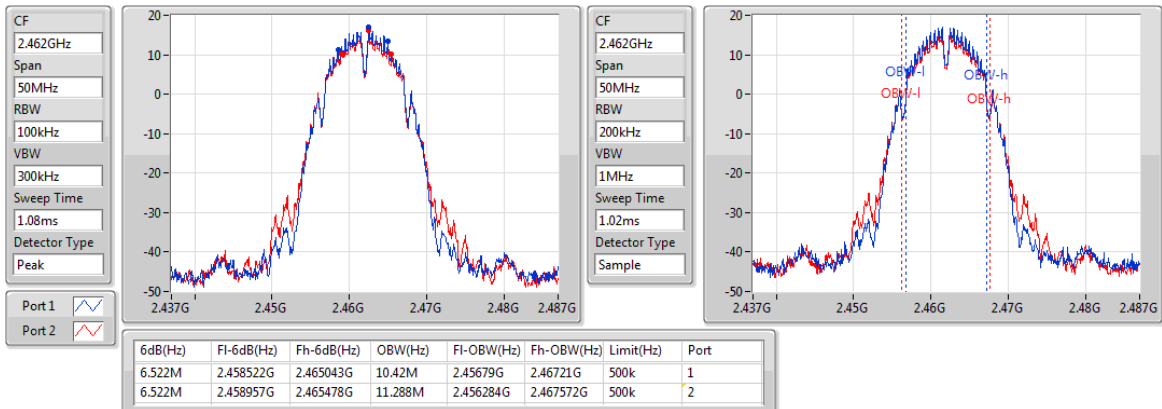
2437MHz



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

EBW

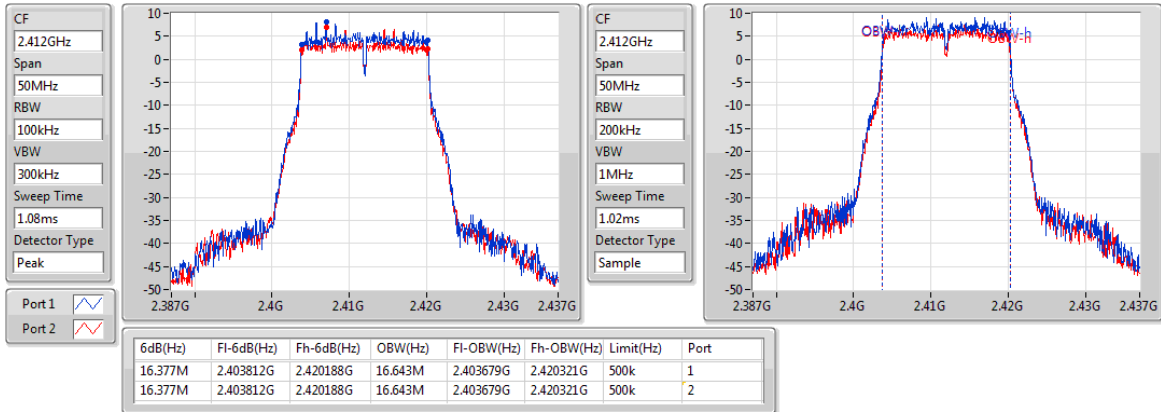
2462MHz



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

EBW

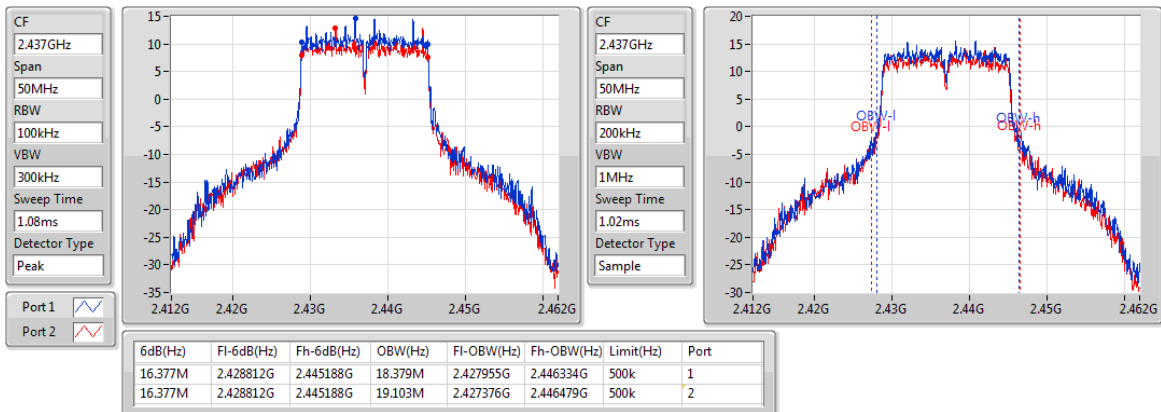
2412MHz



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

EBW

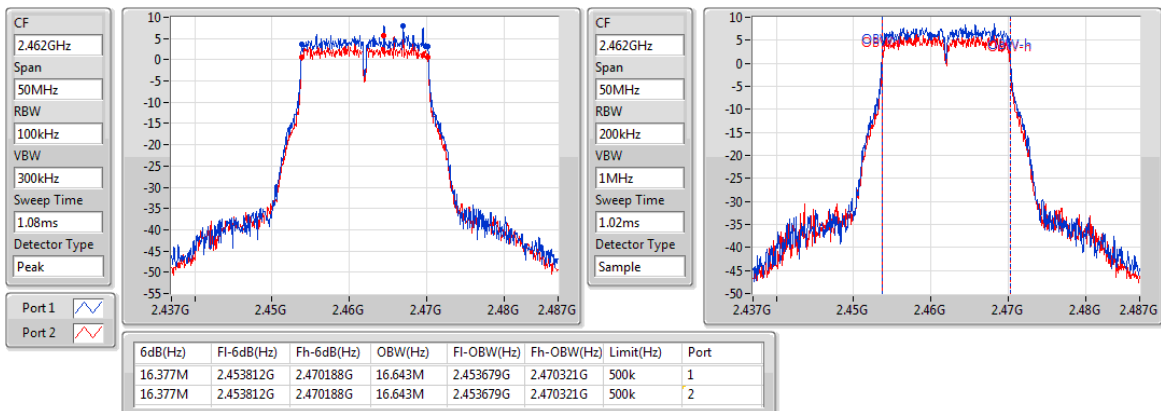
2437MHz



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

EBW

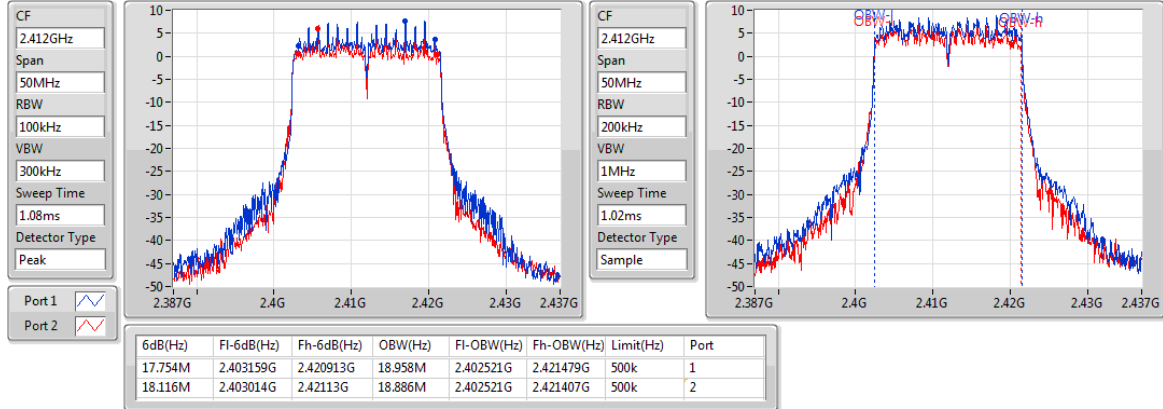
2462MHz



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

EBW

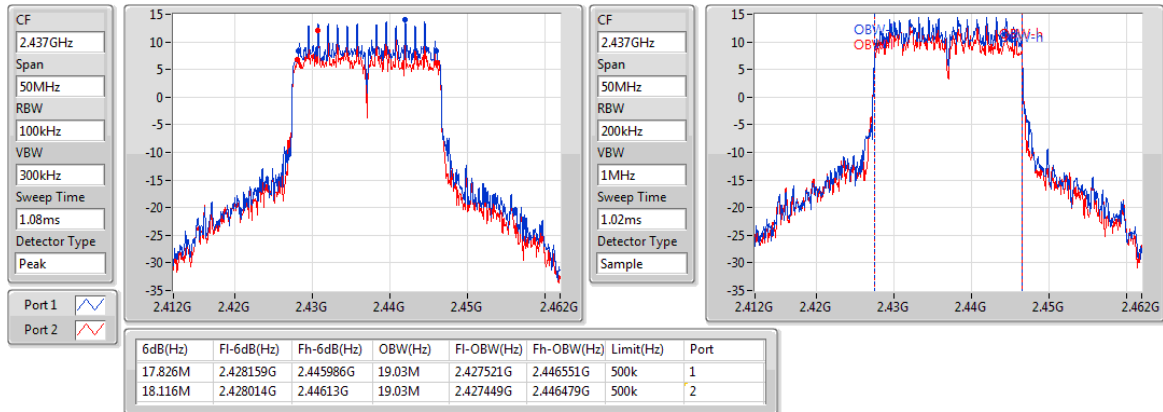
2412MHz



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

EBW

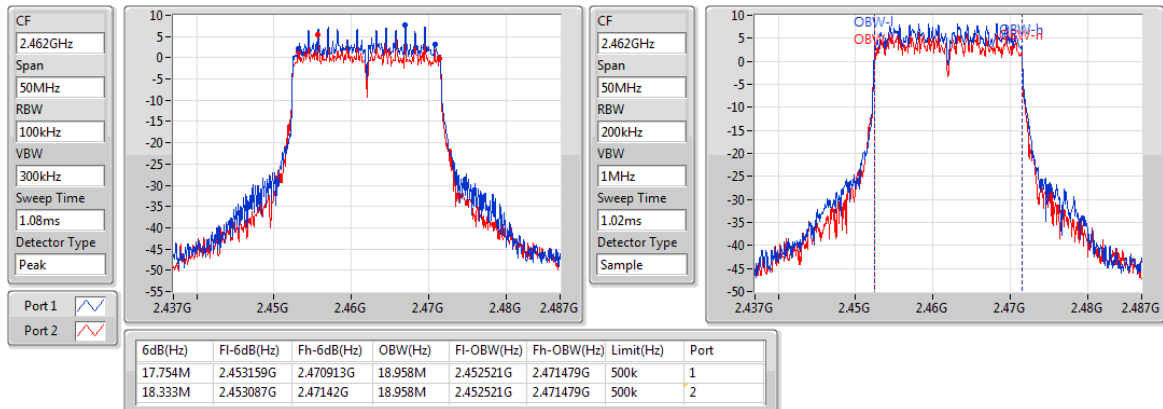
2437MHz



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

EBW

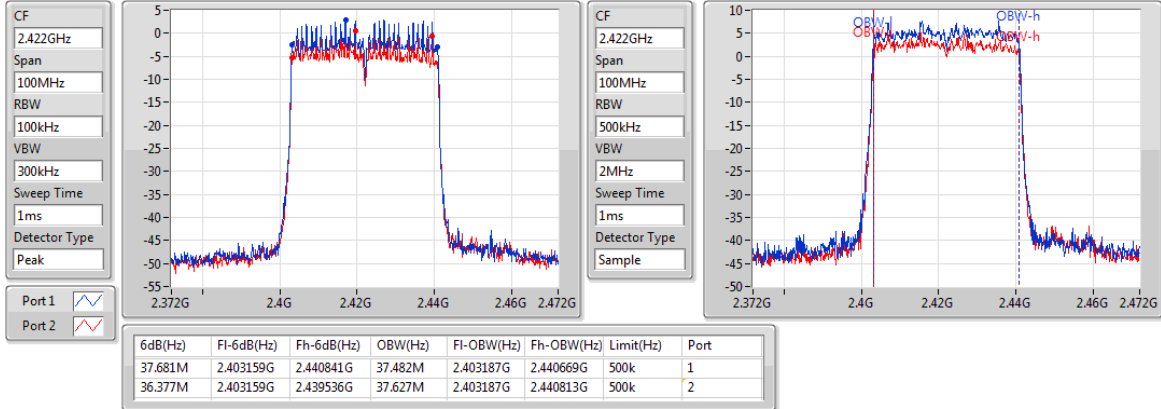
2462MHz



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

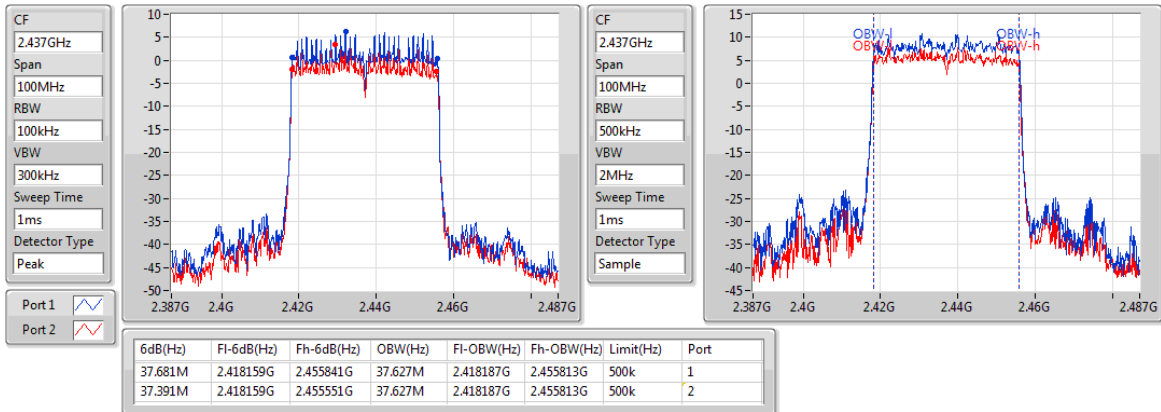
2422MHz



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

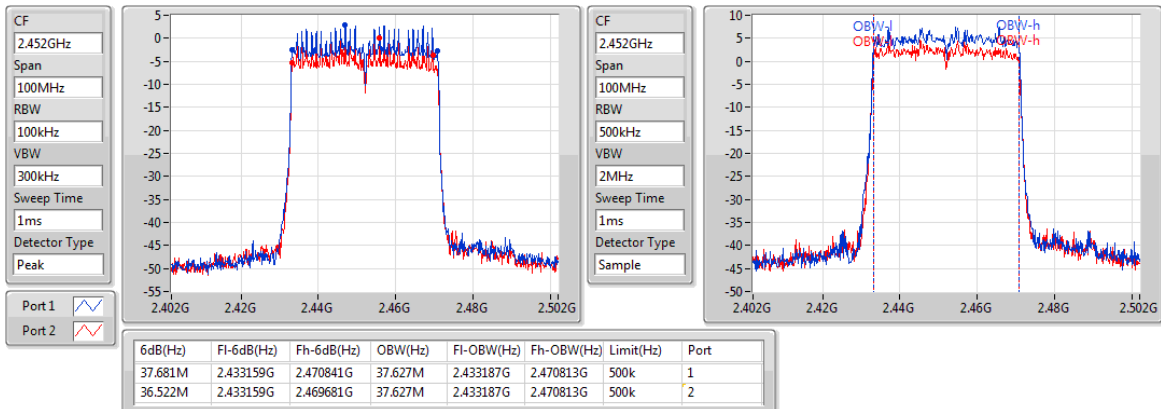
2437MHz



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

2452MHz



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

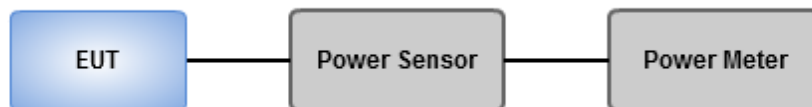
Conducted power shall not exceed 1Watt.

Antenna gain  $\leq 6\text{dBi}$ , no any corresponding reduction is in output power limit.

#### 3.3.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

#### 3.3.3 Test Setup





### 3.3.4 Test Result of Maximum Output Power

#### Non-beamforming mode

##### Summary of Conducted (Average) Output Power

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) |
|--------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                  | -                    | -                  |
| 802.11b_Nss1,(1Mbps)_2TX       | 28.17                | 0.65615            |
| 802.11g_Nss1,(6Mbps)_2TX       | 29.06                | 0.80538            |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 28.09                | 0.64417            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 22.77                | 0.18923            |

#### Result

| Mode                              | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|-----------------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 802.11b_Nss1,(1Mbps)_2TX          | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                           | Pass   | 0.00        | 24.92           | 25.38           | 28.17                   | 30.00                   | 28.17         | 36.00                  |
| 2437MHz                           | Pass   | 0.00        | 24.78           | 25.11           | 27.96                   | 30.00                   | 27.96         | 36.00                  |
| 2462MHz                           | Pass   | 0.00        | 24.45           | 24.96           | 27.72                   | 30.00                   | 27.72         | 36.00                  |
| 802.11g_Nss1,(6Mbps)_2TX          | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                           | Pass   | 0.00        | 20.04           | 19.72           | 22.89                   | 30.00                   | 22.89         | 36.00                  |
| 2437MHz                           | Pass   | 0.00        | 26.08           | 26.02           | 29.06                   | 30.00                   | 29.06         | 36.00                  |
| 2462MHz                           | Pass   | 0.00        | 19.58           | 19.25           | 22.43                   | 30.00                   | 22.43         | 36.00                  |
| 802.11ax<br>HEW20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                           | Pass   | 0.00        | 19.35           | 19.19           | 22.28                   | 30.00                   | 22.28         | 36.00                  |
| 2437MHz                           | Pass   | 0.00        | 25.14           | 25.01           | 28.09                   | 30.00                   | 28.09         | 36.00                  |
| 2462MHz                           | Pass   | 0.00        | 18.96           | 18.66           | 21.82                   | 30.00                   | 21.82         | 36.00                  |
| 802.11ax<br>HEW40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2422MHz                           | Pass   | 0.00        | 17.02           | 16.15           | 19.62                   | 30.00                   | 19.62         | 36.00                  |
| 2437MHz                           | Pass   | 0.00        | 20.26           | 19.19           | 22.77                   | 30.00                   | 22.77         | 36.00                  |
| 2452MHz                           | Pass   | 0.00        | 16.82           | 15.9            | 19.39                   | 30.00                   | 19.39         | 36.00                  |

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

### Beamforming mode

#### Summary of Conducted (Average) Output Power

| Mode                    | Total Power<br>(dBm) | Total Power<br>(W) |
|-------------------------|----------------------|--------------------|
| 2.4-2.4835GHz           | -                    | -                  |
| ax20,bf_Nss1,(MCS0)_2TX | 28.06                | 0.63973            |
| ax40.bf_Nss1,(MCS0)_2TX | 22.53                | 0.17906            |

#### Result

| Mode                    | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|-------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| ax20,bf_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                 | Pass   | 3.01        | 19.32           | 19.15           | 22.25                   | 30.00                   | 25.26         | 36.00                  |
| 2437MHz                 | Pass   | 3.01        | 25.11           | 24.98           | 28.06                   | 30.00                   | 31.07         | 36.00                  |
| 2462MHz                 | Pass   | 3.01        | 18.64           | 18.38           | 21.52                   | 30.00                   | 24.53         | 36.00                  |
| ax40.bf_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2422MHz                 | Pass   | 3.01        | 16.94           | 16.02           | 19.51                   | 30.00                   | 22.52         | 36.00                  |
| 2437MHz                 | Pass   | 3.01        | 19.96           | 19.02           | 22.53                   | 30.00                   | 25.54         | 36.00                  |
| 2452MHz                 | Pass   | 3.01        | 16.81           | 15.79           | 19.34                   | 30.00                   | 22.35         | 36.00                  |

DG = Directional Gain = 0 dBi + 10\*log(2/1)= 3.01 dBi;

Port X = Port X output power

### 3.4 Power Spectral Density

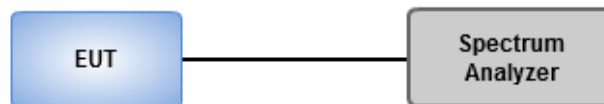
#### 3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

#### 3.4.2 Test Procedures

- 1 Set the RBW = 30 kHz, VBW = 100 kHz. Detector = RMS.
- 2 Set the sweep time to:  $\geq 10$  (number of measurement points in sweep) x (total on/off period of the transmitted signal).
- 3 Perform the measurement over a single sweep.
- 4 Use the peak marker function to determine the maximum amplitude level.
- 5 Add  $10 \log (1/x)$ , where x is the duty cycle.

#### 3.4.3 Test Setup



### 3.4.4 Test Result of Power Spectral Density

#### Non-beamforming mode

##### Summary

| Mode                           | PD<br>(dBm/RBW) |
|--------------------------------|-----------------|
| 2.4-2.4835GHz                  | -               |
| 802.11b_Nss1,(1Mbps)_2TX       | 6.51            |
| 802.11g_Nss1,(6Mbps)_2TX       | 3.62            |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 3.55            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -1.80           |

##### Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_2TX       | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 3.01        | 3.15                | 3.94                | 6.51            | 8.00                  |
| 2437MHz                        | Pass   | 3.01        | 3.18                | 2.43                | 5.80            | 8.00                  |
| 2462MHz                        | Pass   | 3.01        | 2.92                | 1.98                | 5.48            | 8.00                  |
| 802.11g_Nss1,(6Mbps)_2TX       | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 3.01        | -4.70               | -6.26               | -2.43           | 8.00                  |
| 2437MHz                        | Pass   | 3.01        | 1.23                | -0.12               | 3.62            | 8.00                  |
| 2462MHz                        | Pass   | 3.01        | -5.10               | -7.14               | -2.99           | 8.00                  |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                        | Pass   | 3.01        | -4.97               | -5.60               | -2.32           | 8.00                  |
| 2437MHz                        | Pass   | 3.01        | 1.07                | 0.26                | 3.55            | 8.00                  |
| 2462MHz                        | Pass   | 3.01        | -5.08               | -6.20               | -2.59           | 8.00                  |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2422MHz                        | Pass   | 3.01        | -6.50               | -9.89               | -4.86           | 8.00                  |
| 2437MHz                        | Pass   | 3.01        | -3.48               | -6.75               | -1.80           | 8.00                  |
| 2452MHz                        | Pass   | 3.01        | -6.49               | -10.19              | -4.95           | 8.00                  |

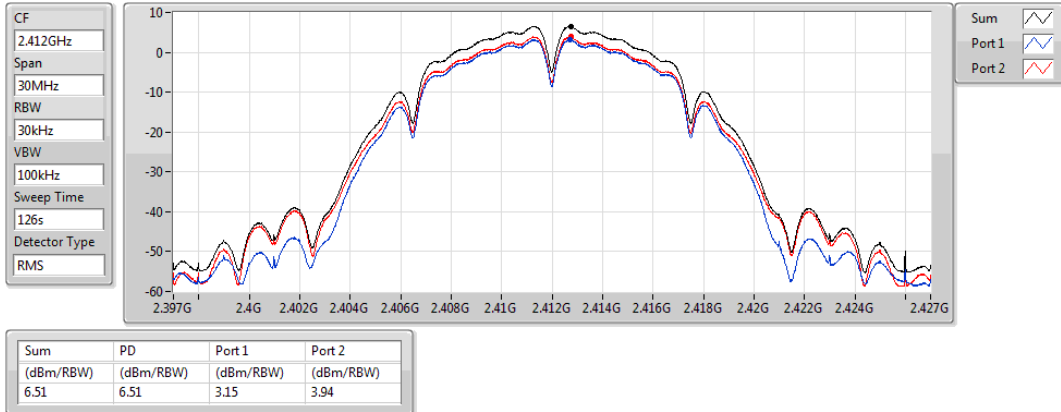
DG = Directional Gain = 0 dBi + 10\*log(2/1)= 3.01 dBi;

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

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

PSD

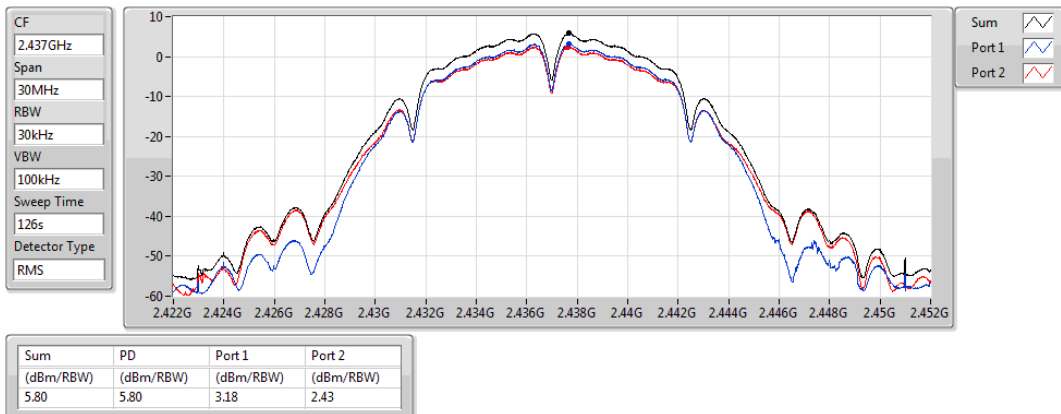
2412MHz



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

PSD

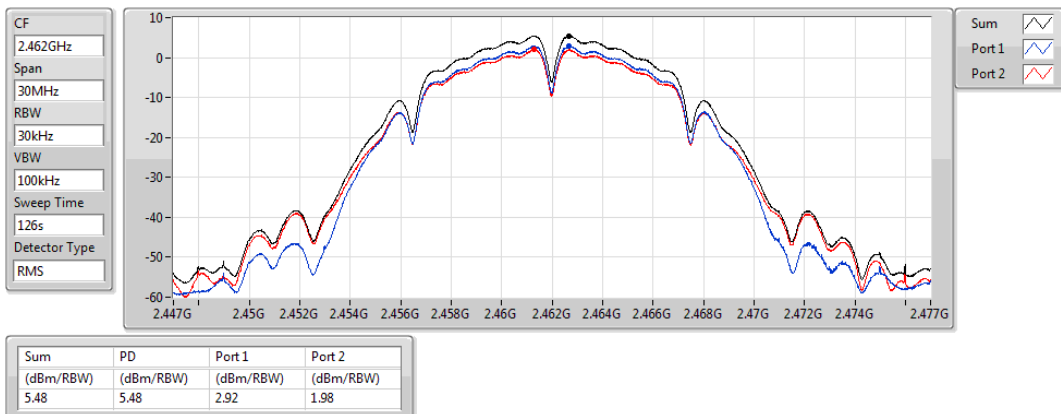
2437MHz



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

PSD

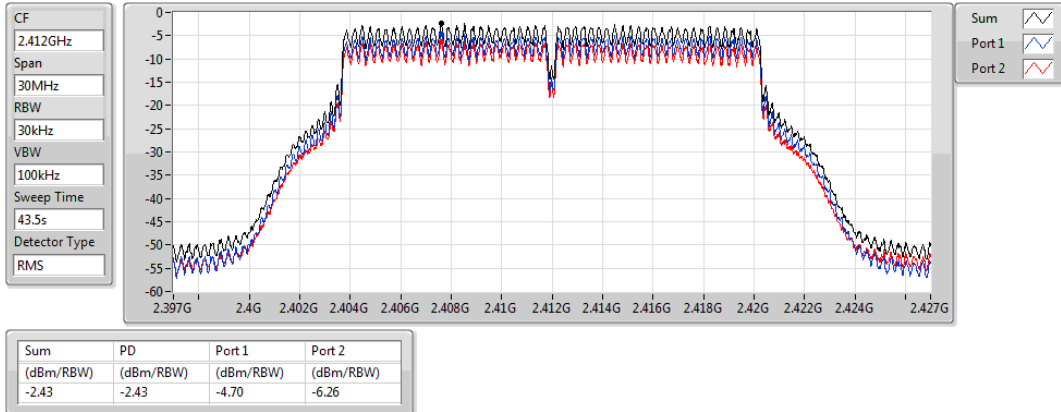
2462MHz



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

PSD

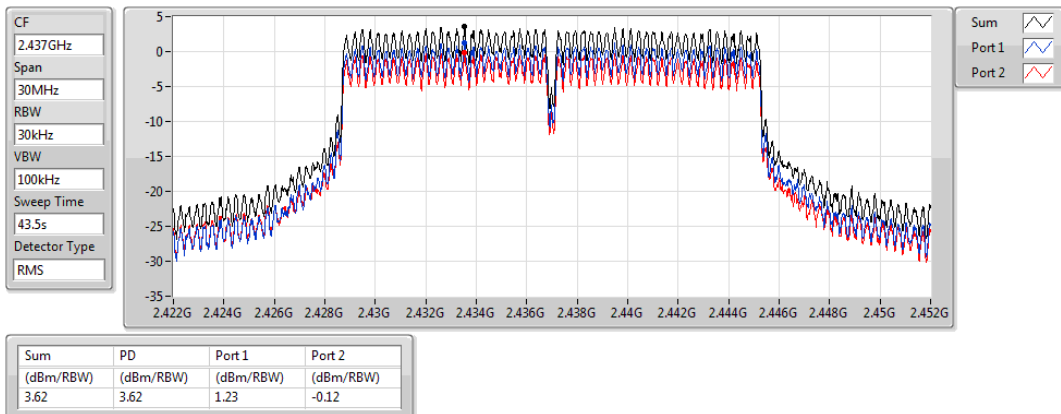
2412MHz



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

PSD

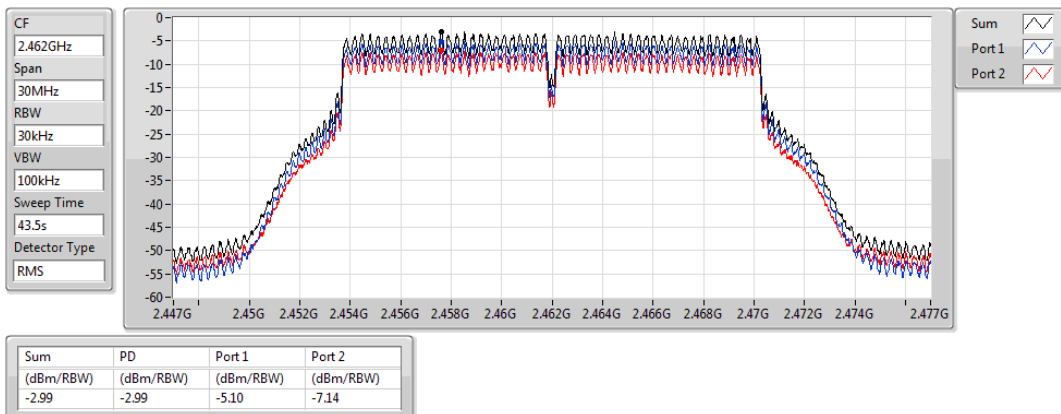
2437MHz



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

PSD

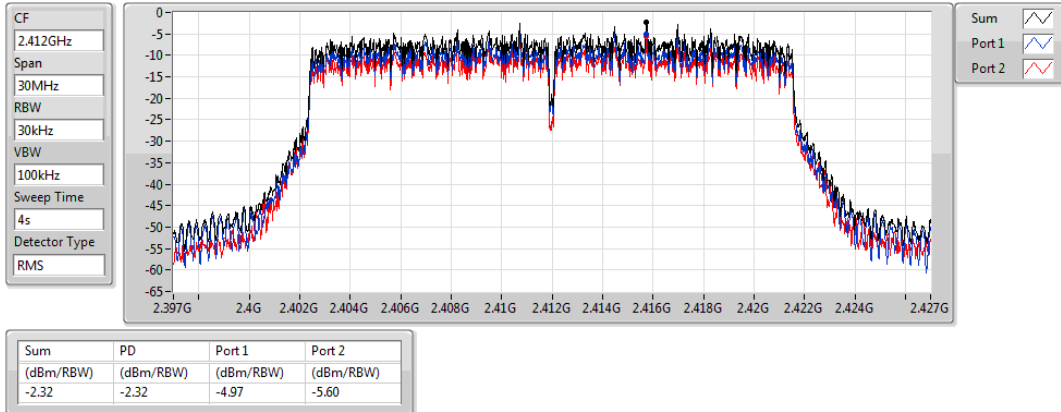
2462MHz



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

PSD

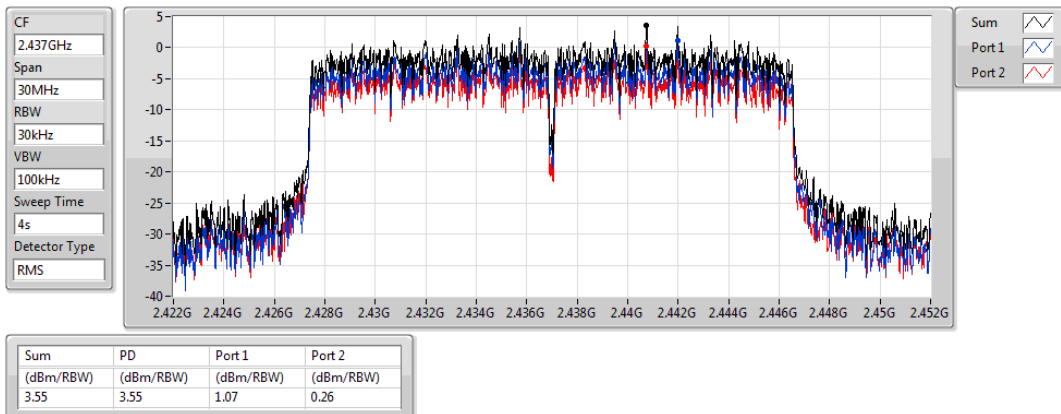
2412MHz



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

PSD

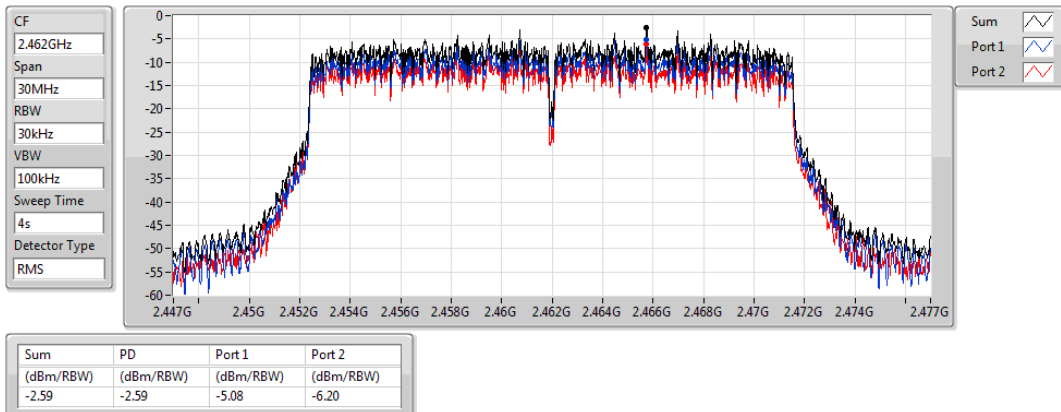
2437MHz



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

PSD

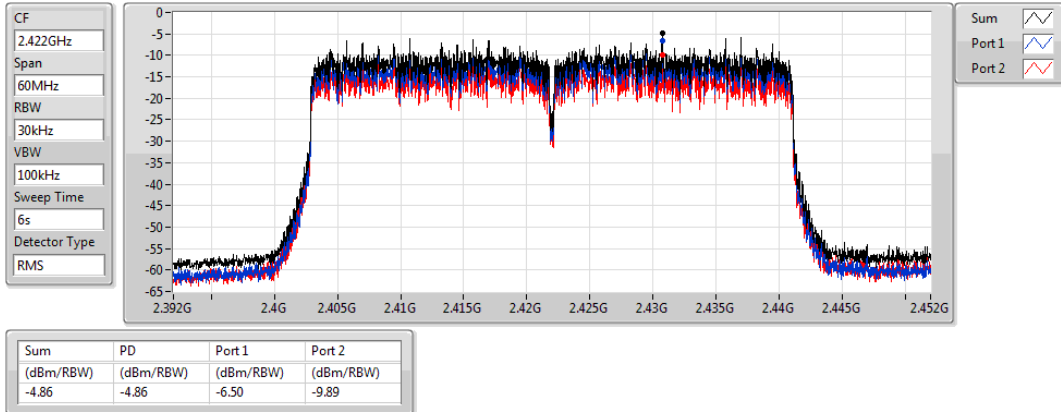
2462MHz



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

PSD

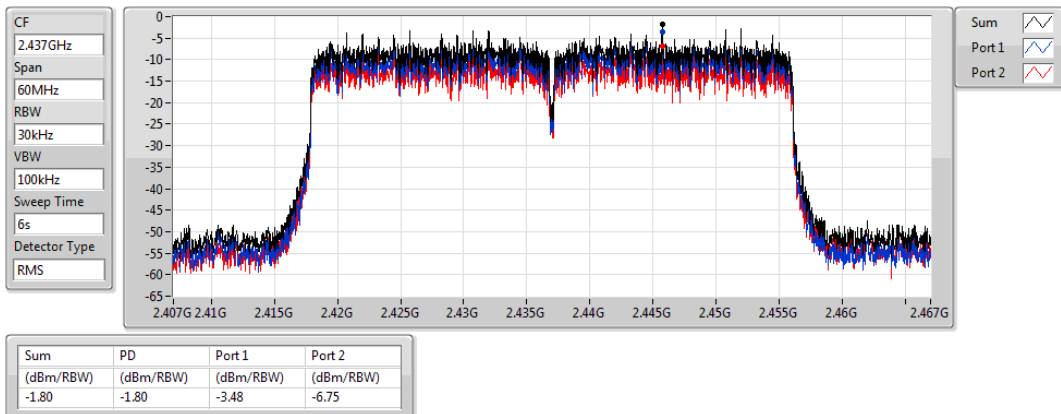
2422MHz



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

PSD

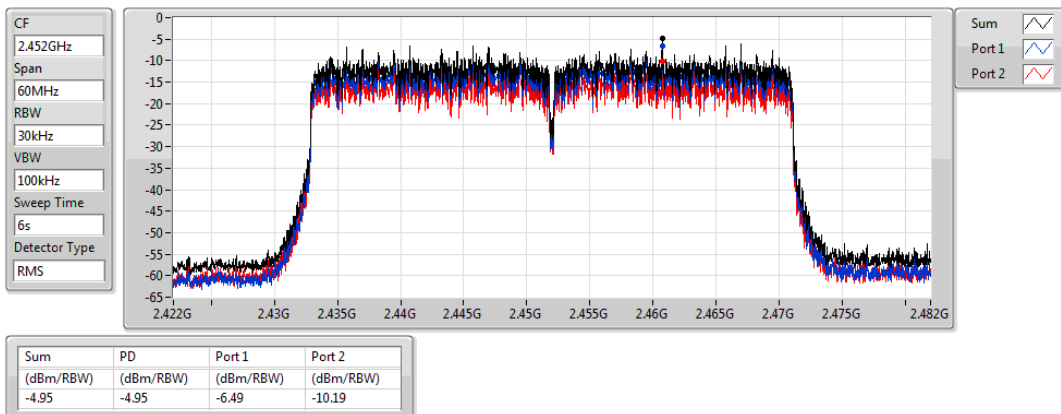
2437MHz



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

PSD

2452MHz





### Beamforming mode

#### Summary

| Mode                    | PD<br>(dBm/RBW) |
|-------------------------|-----------------|
| 2.4-2.4835GHz           | -               |
| ax20,bf_Nss1,(MCS0)_2TX | 0.71            |
| ax40,bf_Nss1,(MCS0)_2TX | -6.96           |

#### Result

| Mode                    | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|-------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| ax20,bf_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                 | Pass   | 3.01        | -6.75               | -7.97               | -4.45           | 8.00                  |
| 2437MHz                 | Pass   | 3.01        | -1.15               | -2.50               | 0.71            | 8.00                  |
| 2462MHz                 | Pass   | 3.01        | -7.87               | -9.23               | -5.68           | 8.00                  |
| ax40,bf_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2422MHz                 | Pass   | 3.01        | -11.85              | -13.51              | -10.19          | 8.00                  |
| 2437MHz                 | Pass   | 3.01        | -8.40               | -11.08              | -6.96           | 8.00                  |
| 2452MHz                 | Pass   | 3.01        | -10.84              | -11.80              | -9.34           | 8.00                  |

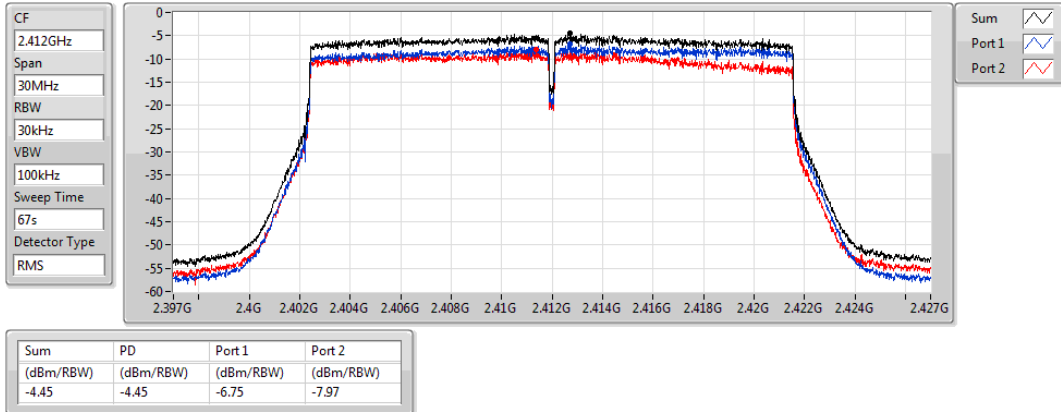
DG = Directional Gain = 0 dBi + 10\*log(2/1)= 3.01 dBi;

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

### ax20,bf\_Nss1,(MCS0)\_2TX

PSD

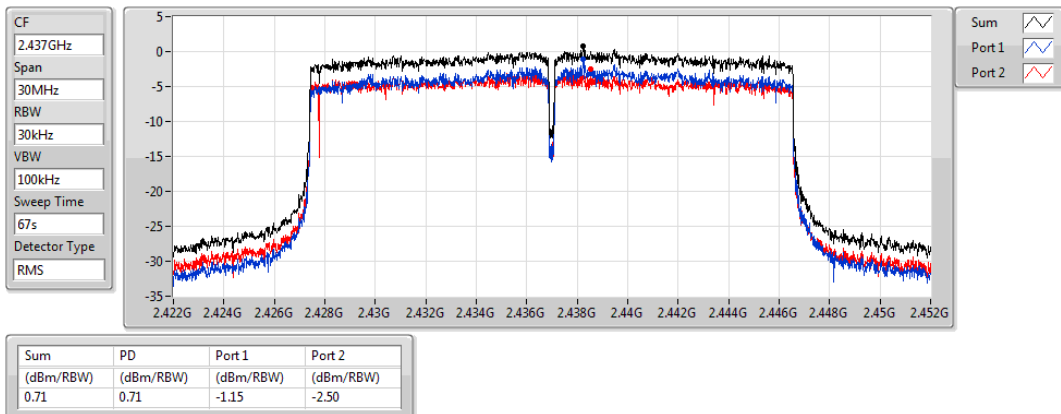
2412MHz



### ax20,bf\_Nss1,(MCS0)\_2TX

PSD

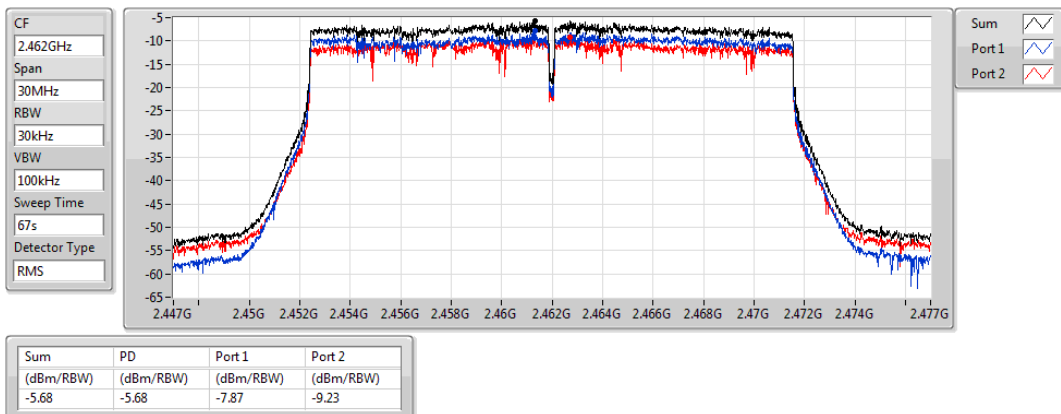
2437MHz



### ax20,bf\_Nss1,(MCS0)\_2TX

PSD

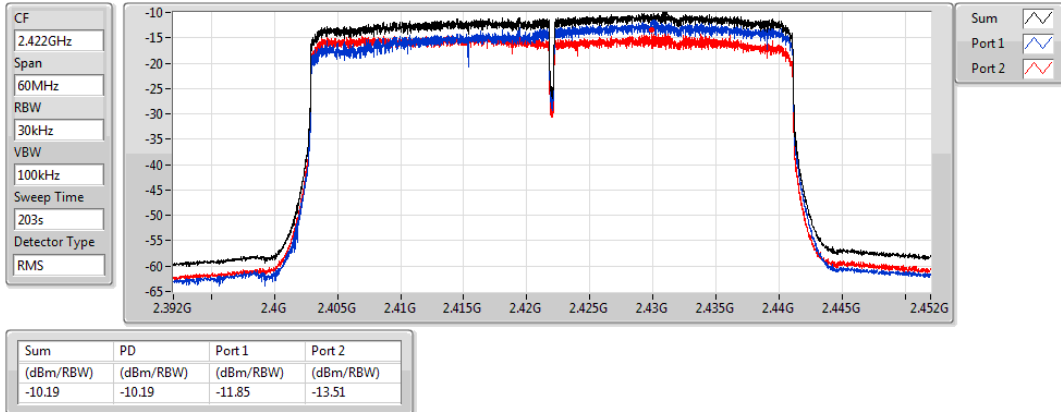
2462MHz



### ax40.bf\_Nss1,(MCS0)\_2TX

PSD

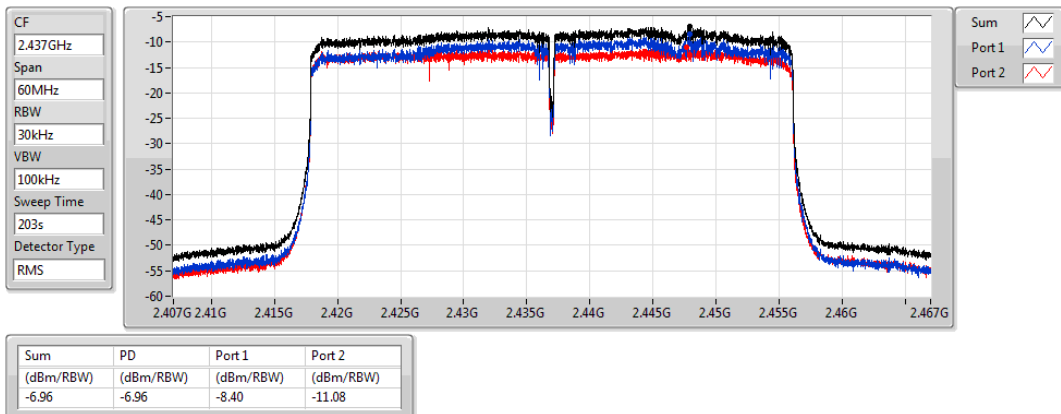
2422MHz



### ax40.bf\_Nss1,(MCS0)\_2TX

PSD

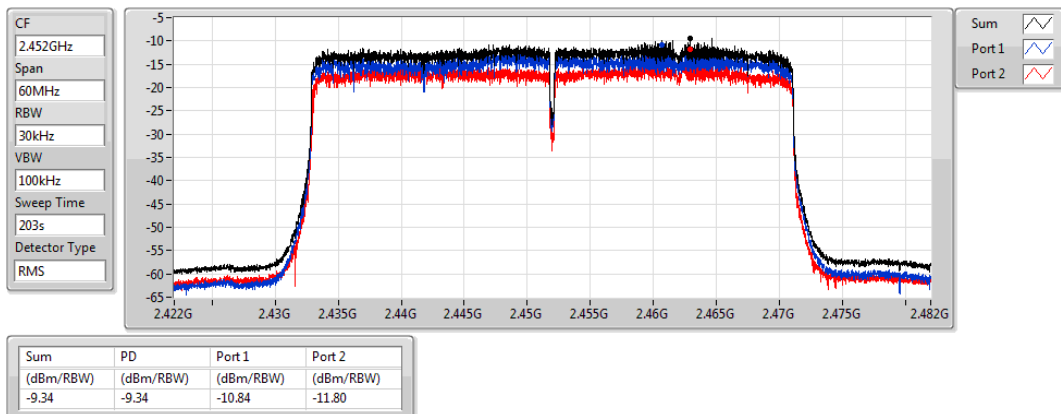
2437MHz



### ax40.bf\_Nss1,(MCS0)\_2TX

PSD

2452MHz



### 3.5 Unwanted Emissions into Restricted Frequency Bands

#### 3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

| 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:**  
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

#### 3.5.2 Test Procedures

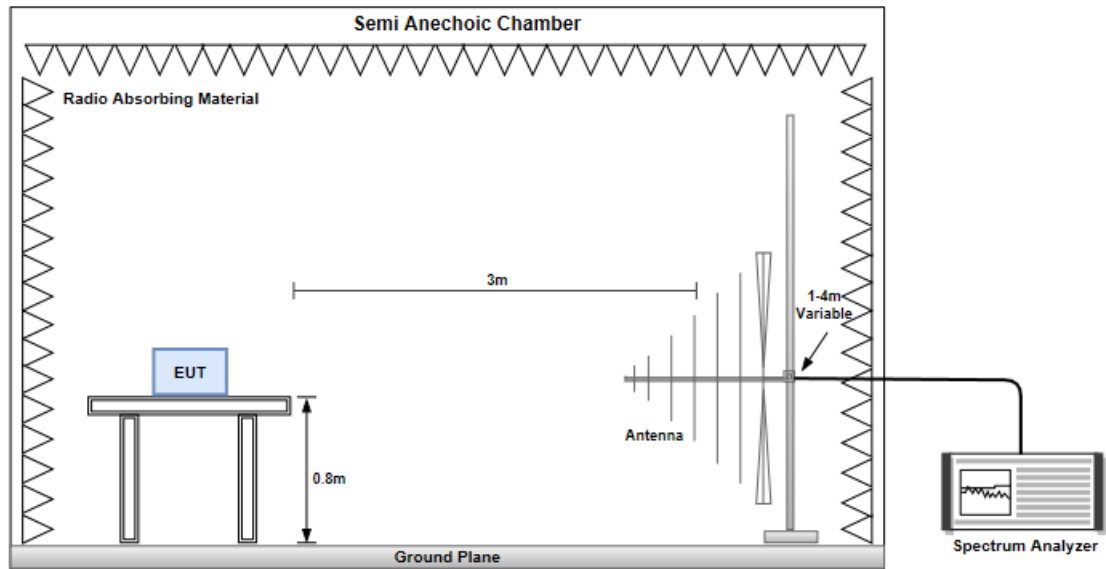
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

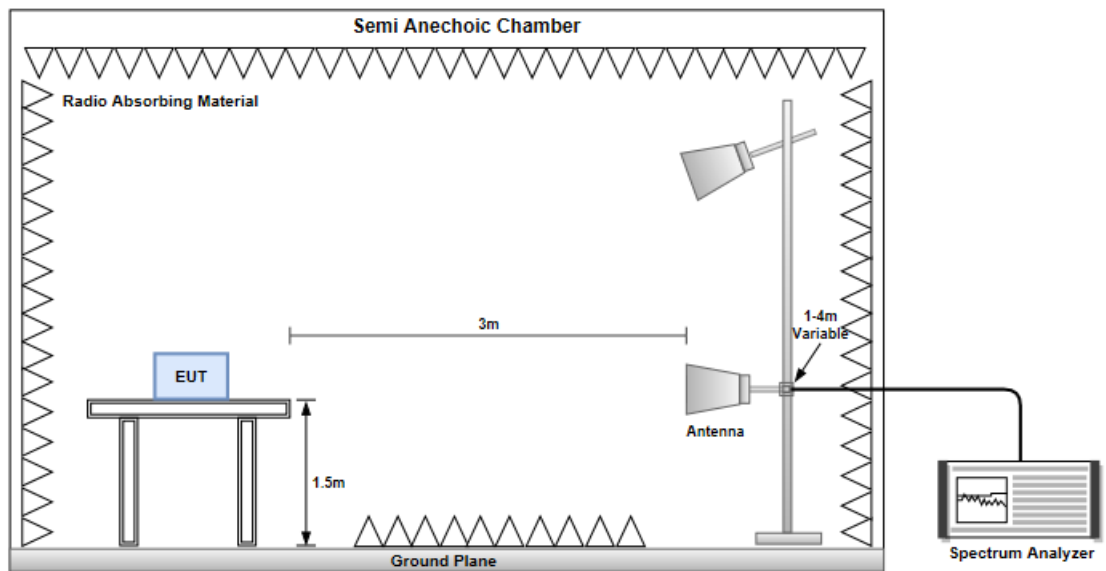
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.5.3 Test Setup

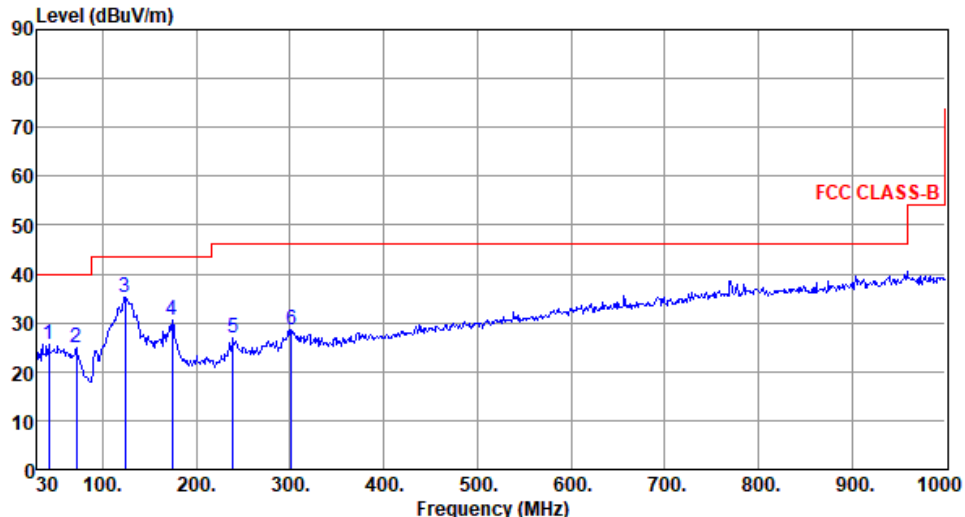
#### Radiated Emissions below 1 GHz



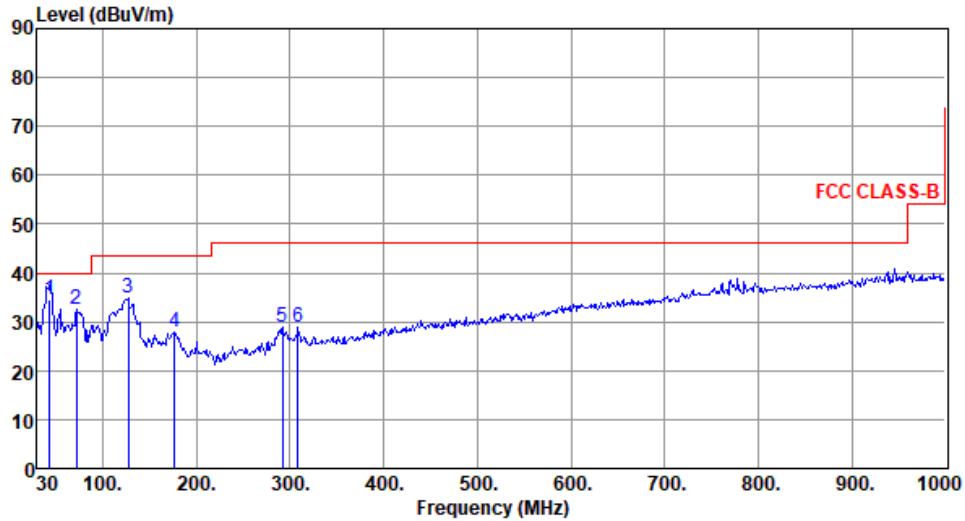
#### Radiated Emissions above 1 GHz



### 3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11g          | Test Freq. (MHz)            | 2437            |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------|--------------|-----------------------|-----------------------------|-----------------|-------------------|-----------------------|--------------|--------|-------------------|----------------------|---|-------|-------|-------|--------|-------|-------|------|-----|-----|---|-------|-------|-------|--------|-------|--------|------|-----|-----|---|--------|-------|-------|-------|-------|--------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|--------|-------|--------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Horizontal   |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |
| <div><div><div>Level (dBuV/m)</div><div></div></div><table><thead><tr><th></th><th>Freq.<br/>MHz</th><th>Emission<br/>level<br/>dBuV/m</th><th>Limit<br/>dBuV/m</th><th>Margin<br/>dB</th><th>SA<br/>reading<br/>dBuV</th><th>Factor<br/>dB</th><th>Remark</th><th>ANT<br/>High<br/>cm</th><th>Turn<br/>Table<br/>deg</th></tr></thead><tbody><tr><td>1</td><td>42.61</td><td>25.74</td><td>40.00</td><td>-14.26</td><td>34.00</td><td>-8.26</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>71.71</td><td>24.74</td><td>40.00</td><td>-15.26</td><td>35.55</td><td>-10.81</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>124.09</td><td>35.24</td><td>43.50</td><td>-8.26</td><td>45.51</td><td>-10.27</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>174.53</td><td>30.41</td><td>43.50</td><td>-13.09</td><td>39.69</td><td>-9.28</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>239.52</td><td>26.84</td><td>46.00</td><td>-19.16</td><td>37.09</td><td>-10.25</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>301.60</td><td>28.65</td><td>46.00</td><td>-17.35</td><td>36.68</td><td>-8.03</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table></div> <div><p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)<br/>*Factor includes antenna factor , cable loss and amplifier gain<br/>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).<br/>Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</p></div> |              |                             |                 |              | Freq.<br>MHz          | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB      | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg | 1 | 42.61 | 25.74 | 40.00 | -14.26 | 34.00 | -8.26 | Peak | --- | --- | 2 | 71.71 | 24.74 | 40.00 | -15.26 | 35.55 | -10.81 | Peak | --- | --- | 3 | 124.09 | 35.24 | 43.50 | -8.26 | 45.51 | -10.27 | Peak | --- | --- | 4 | 174.53 | 30.41 | 43.50 | -13.09 | 39.69 | -9.28 | Peak | --- | --- | 5 | 239.52 | 26.84 | 46.00 | -19.16 | 37.09 | -10.25 | Peak | --- | --- | 6 | 301.60 | 28.65 | 46.00 | -17.35 | 36.68 | -8.03 | Peak | --- | --- |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB                | Remark          | ANT<br>High<br>cm | Turn<br>Table<br>deg  |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 42.61        | 25.74                       | 40.00           | -14.26       | 34.00                 | -8.26                       | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71.71        | 24.74                       | 40.00           | -15.26       | 35.55                 | -10.81                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 124.09       | 35.24                       | 43.50           | -8.26        | 45.51                 | -10.27                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 174.53       | 30.41                       | 43.50           | -13.09       | 39.69                 | -9.28                       | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 239.52       | 26.84                       | 46.00           | -19.16       | 37.09                 | -10.25                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 301.60       | 28.65                       | 46.00           | -17.35       | 36.68                 | -8.03                       | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11g      | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |



|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 43.58        | 34.65                       | 40.00           | -5.35        | 42.87                 | -8.22        | QP     | 103               | 186                  |
| 2 | 71.71        | 32.65                       | 40.00           | -7.35        | 43.46                 | -10.81       | Peak   | ---               | ---                  |
| 3 | 127.00       | 34.84                       | 43.50           | -8.66        | 44.72                 | -9.88        | Peak   | ---               | ---                  |
| 4 | 176.47       | 27.83                       | 43.50           | -15.67       | 37.30                 | -9.47        | Peak   | ---               | ---                  |
| 5 | 291.90       | 28.85                       | 46.00           | -17.15       | 37.13                 | -8.28        | Peak   | ---               | ---                  |
| 6 | 308.39       | 28.83                       | 46.00           | -17.17       | 36.61                 | -7.78        | Peak   | ---               | ---                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

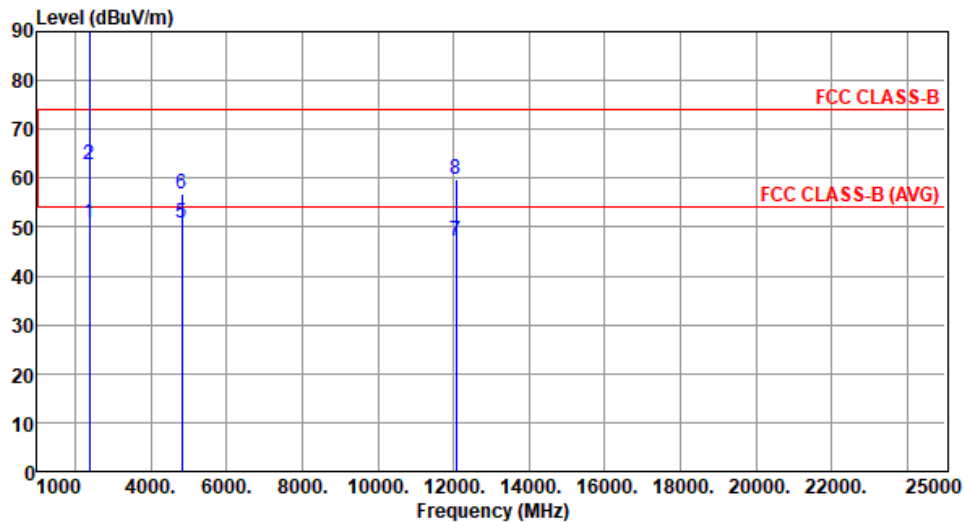
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

### 3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11b        |  | Test Freq. (MHz) |  | 2412 |  |  |  |  |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Horizontal |  |                  |  |      |  |  |  |  |
| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|            |  |                  |  |      |  |  |  |  |



|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11b      | Test Freq. (MHz) | 2412 |
| Polarization | Vertical |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 50.68                       | 54.00           | -3.32        | 53.48                 | -2.80        | Average | 100               | 254                  |
| 2   | 2390.00      | 62.77                       | 74.00           | -11.23       | 65.57                 | -2.80        | Peak    | 100               | 254                  |
| 3 * | 2412.00      | 115.69                      |                 |              | 118.59                | -2.90        | Average | 100               | 254                  |
| 4 * | 2412.00      | 118.20                      |                 |              | 121.10                | -2.90        | Peak    | 100               | 254                  |
| 5   | 4824.00      | 50.93                       | 54.00           | -3.07        | 47.33                 | 3.60         | Average | 150               | 283                  |
| 6   | 4824.00      | 56.67                       | 74.00           | -17.33       | 53.07                 | 3.60         | Peak    | 150               | 283                  |
| 7   | 12060.00     | 47.18                       | 54.00           | -6.82        | 33.33                 | 13.85        | Average | 100               | 20                   |
| 8   | 12060.00     | 59.82                       | 74.00           | -14.18       | 45.97                 | 13.85        | Peak    | 100               | 20                   |

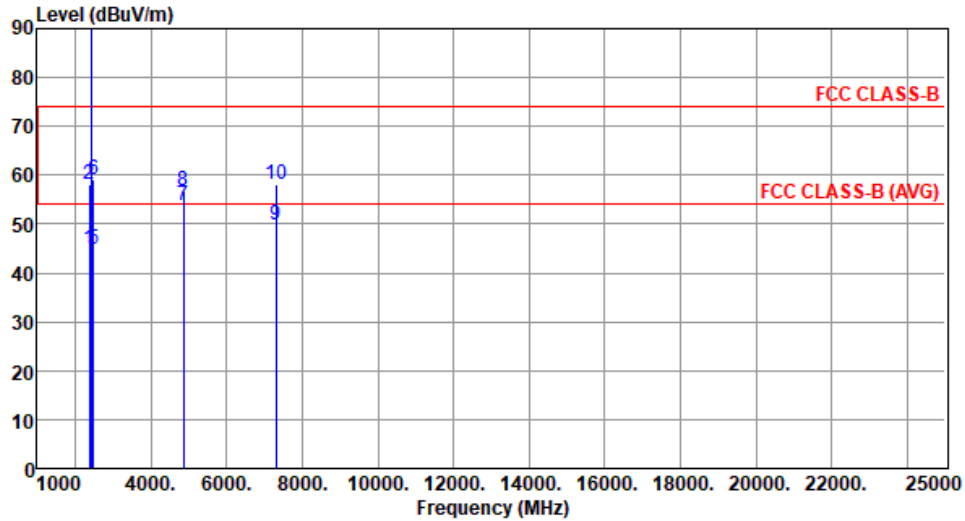
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11b        | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 44.70                       | 54.00           | -9.30        | 47.50                 | -2.80        | Average | 251               | 220                  |
| 2   | 2390.00      | 58.27                       | 74.00           | -15.73       | 61.07                 | -2.80        | Peak    | 251               | 220                  |
| 3 * | 2437.00      | 112.80                      |                 |              | 115.81                | -3.01        | Average | 251               | 220                  |
| 4 * | 2437.00      | 115.24                      |                 |              | 118.25                | -3.01        | Peak    | 251               | 220                  |
| 5   | 2483.50      | 44.93                       | 54.00           | -9.07        | 47.96                 | -3.03        | Average | 251               | 220                  |
| 6   | 2483.50      | 59.21                       | 74.00           | -14.79       | 62.24                 | -3.03        | Peak    | 251               | 220                  |
| 7   | 4874.00      | 53.79                       | 54.00           | -0.21        | 50.15                 | 3.64         | Average | 100               | 307                  |
| 8   | 4874.00      | 56.90                       | 74.00           | -17.10       | 53.26                 | 3.64         | Peak    | 100               | 307                  |
| 9   | 7311.00      | 49.89                       | 54.00           | -4.11        | 40.62                 | 9.27         | Average | 270               | 242                  |
| 10  | 7311.00      | 58.00                       | 74.00           | -16.00       | 48.73                 | 9.27         | Peak    | 270               | 242                  |

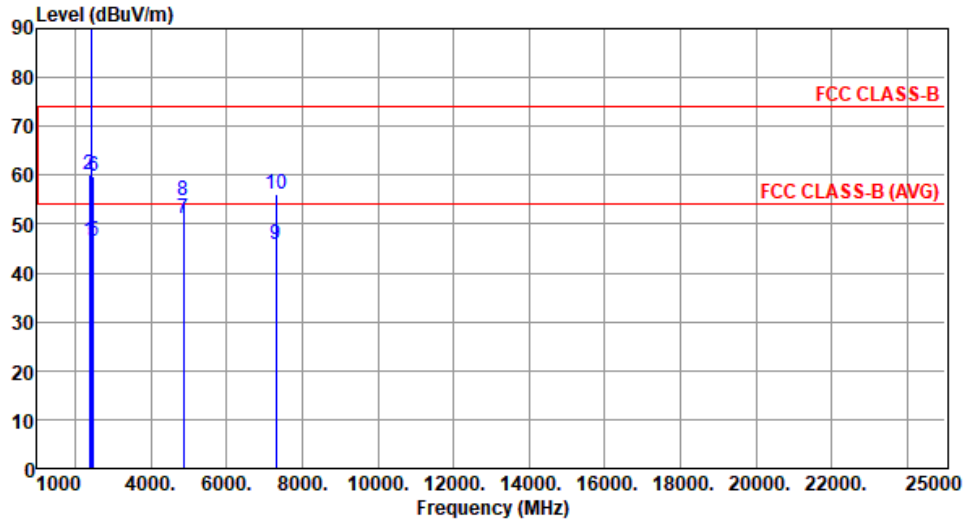
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11b      | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 46.41                       | 54.00           | -7.59        | 49.21                 | -2.80        | Average | 136               | 271                  |
| 2   | 2390.00      | 60.24                       | 74.00           | -13.76       | 63.04                 | -2.80        | Peak    | 136               | 271                  |
| 3 * | 2437.00      | 115.61                      |                 |              | 118.62                | -3.01        | Average | 136               | 271                  |
| 4 * | 2437.00      | 118.14                      |                 |              | 121.15                | -3.01        | Peak    | 136               | 271                  |
| 5   | 2483.50      | 46.46                       | 54.00           | -7.54        | 49.49                 | -3.03        | Average | 136               | 271                  |
| 6   | 2483.50      | 59.67                       | 74.00           | -14.33       | 62.70                 | -3.03        | Peak    | 136               | 271                  |
| 7   | 4874.00      | 51.11                       | 54.00           | -2.89        | 47.47                 | 3.64         | Average | 100               | 59                   |
| 8   | 4874.00      | 54.73                       | 74.00           | -19.27       | 51.09                 | 3.64         | Peak    | 100               | 59                   |
| 9   | 7311.00      | 45.78                       | 54.00           | -8.22        | 36.51                 | 9.27         | Average | 155               | 287                  |
| 10  | 7311.00      | 56.17                       | 74.00           | -17.83       | 46.90                 | 9.27         | Peak    | 155               | 287                  |

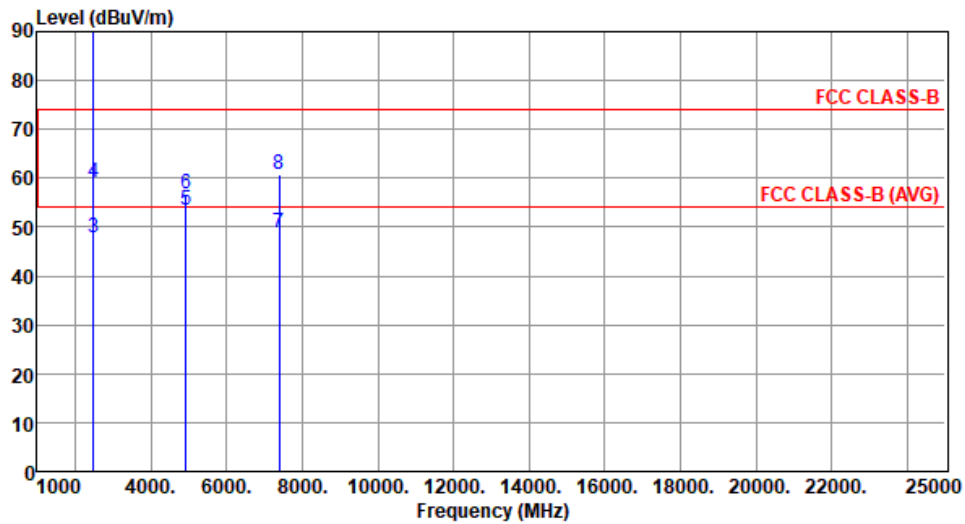
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11b        | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal |                  |      |



|   |   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00      | 112.53                      |                 |              | 115.59                | -3.06        | Average | 234               | 197                  |
| 2 | * | 2462.00      | 115.03                      |                 |              | 118.09                | -3.06        | Peak    | 234               | 197                  |
| 3 |   | 2483.50      | 47.82                       | 54.00           | -6.18        | 50.85                 | -3.03        | Average | 234               | 197                  |
| 4 |   | 2483.50      | 59.05                       | 74.00           | -14.95       | 62.08                 | -3.03        | Peak    | 234               | 197                  |
| 5 |   | 4924.00      | 53.52                       | 54.00           | -0.48        | 49.83                 | 3.69         | Average | 100               | 305                  |
| 6 |   | 4924.00      | 56.84                       | 74.00           | -17.16       | 53.15                 | 3.69         | Peak    | 100               | 305                  |
| 7 |   | 7386.00      | 48.83                       | 54.00           | -5.17        | 39.76                 | 9.07         | Average | 279               | 307                  |
| 8 |   | 7386.00      | 60.82                       | 74.00           | -13.18       | 51.75                 | 9.07         | Peak    | 279               | 307                  |

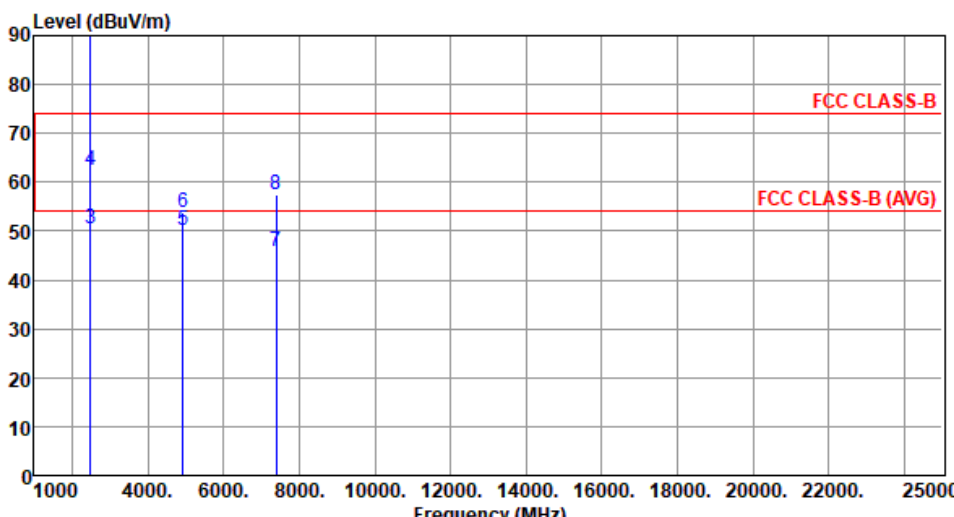
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11b      | Test Freq. (MHz) | 2462 |
| Polarization | Vertical |                  |      |



|   |   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00      | 115.29                      |                 |              | 118.35                | -3.06        | Average | 135               | 257                  |
| 2 | * | 2462.00      | 117.83                      |                 |              | 120.89                | -3.06        | Peak    | 135               | 257                  |
| 3 |   | 2483.50      | 50.63                       | 54.00           | -3.37        | 53.66                 | -3.03        | Average | 135               | 257                  |
| 4 |   | 2483.50      | 62.47                       | 74.00           | -11.53       | 65.50                 | -3.03        | Peak    | 135               | 257                  |
| 5 |   | 4924.00      | 50.11                       | 54.00           | -3.89        | 46.42                 | 3.69         | Average | 100               | 59                   |
| 6 |   | 4924.00      | 53.91                       | 74.00           | -20.09       | 50.22                 | 3.69         | Peak    | 100               | 59                   |
| 7 |   | 7386.00      | 45.96                       | 54.00           | -8.04        | 36.89                 | 9.07         | Average | 100               | 30                   |
| 8 |   | 7386.00      | 57.59                       | 74.00           | -16.41       | 48.52                 | 9.07         | Peak    | 100               | 30                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

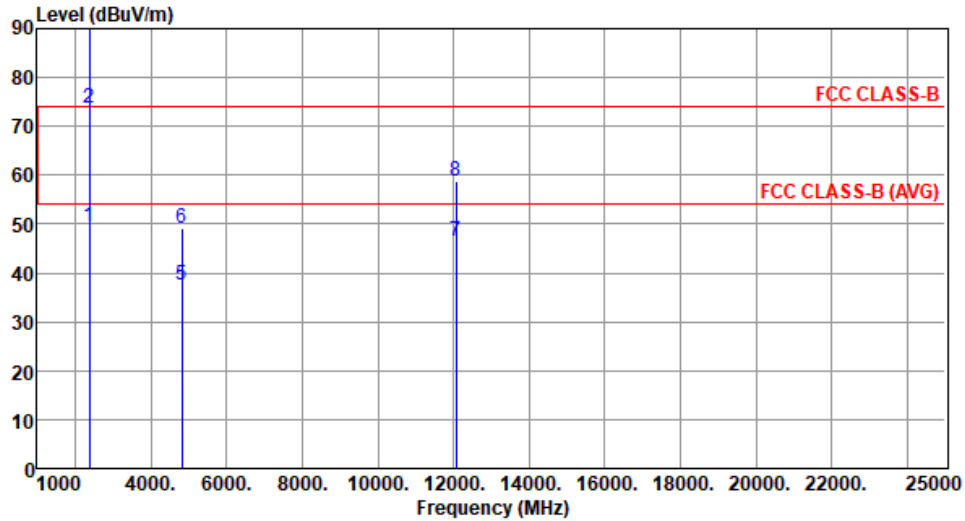
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

### 3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

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                                                                                                                                                                                | 11g        | Test Freq. (MHz) | 2412 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Horizontal |                  |      |
| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|            |                  |      |

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11g      | Test Freq. (MHz) | 2412 |
| Polarization | Vertical |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 49.64                       | 54.00           | -4.36        | 52.44                 | -2.80        | Average | 100               | 255                  |
| 2   | 2390.00      | 73.59                       | 74.00           | -0.41        | 76.39                 | -2.80        | Peak    | 100               | 255                  |
| 3 * | 2412.00      | 104.87                      |                 |              | 107.77                | -2.90        | Average | 100               | 255                  |
| 4 * | 2412.00      | 114.46                      |                 |              | 117.36                | -2.90        | Peak    | 100               | 255                  |
| 5   | 4824.00      | 37.61                       | 54.00           | -16.39       | 34.01                 | 3.60         | Average | 100               | 12                   |
| 6   | 4824.00      | 49.08                       | 74.00           | -24.92       | 45.48                 | 3.60         | Peak    | 100               | 12                   |
| 7   | 12060.00     | 46.50                       | 54.00           | -7.50        | 32.65                 | 13.85        | Average | 100               | 20                   |
| 8   | 12060.00     | 58.93                       | 74.00           | -15.07       | 45.08                 | 13.85        | Peak    | 100               | 20                   |

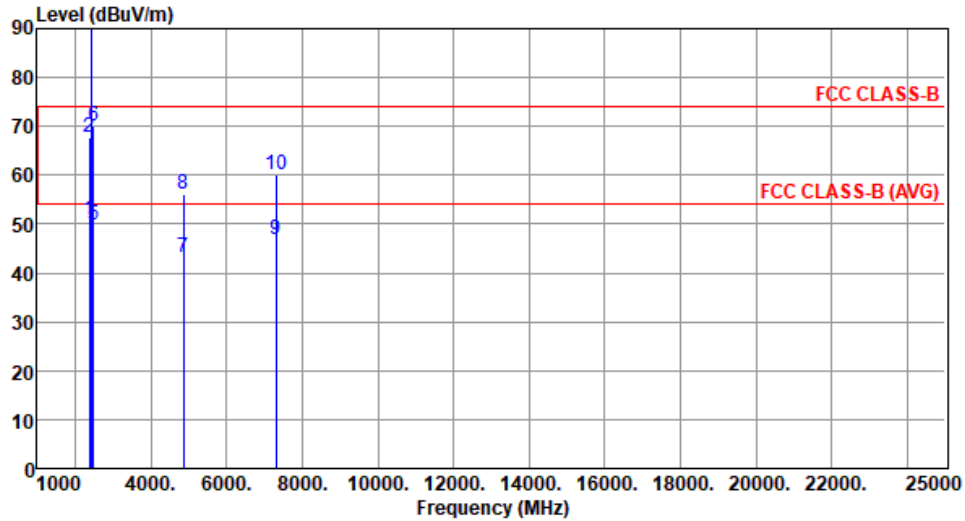
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11g        | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 50.81                       | 54.00           | -3.19        | 53.61                 | -2.80        | Average | 266               | 214                  |
| 2   | 2390.00      | 67.75                       | 74.00           | -6.25        | 70.55                 | -2.80        | Peak    | 266               | 214                  |
| 3 * | 2437.00      | 108.32                      |                 |              | 111.33                | -3.01        | Average | 266               | 214                  |
| 4 * | 2437.00      | 117.87                      |                 |              | 120.88                | -3.01        | Peak    | 266               | 214                  |
| 5   | 2483.50      | 49.73                       | 54.00           | -4.27        | 52.76                 | -3.03        | Average | 266               | 214                  |
| 6   | 2483.50      | 70.06                       | 74.00           | -3.94        | 73.09                 | -3.03        | Peak    | 266               | 214                  |
| 7   | 4874.00      | 43.06                       | 54.00           | -10.94       | 39.42                 | 3.64         | Average | 100               | 296                  |
| 8   | 4874.00      | 56.16                       | 74.00           | -17.84       | 52.52                 | 3.64         | Peak    | 100               | 296                  |
| 9   | 7311.00      | 46.69                       | 54.00           | -7.31        | 37.42                 | 9.27         | Average | 166               | 317                  |
| 10  | 7311.00      | 60.23                       | 74.00           | -13.77       | 50.96                 | 9.27         | Peak    | 166               | 317                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

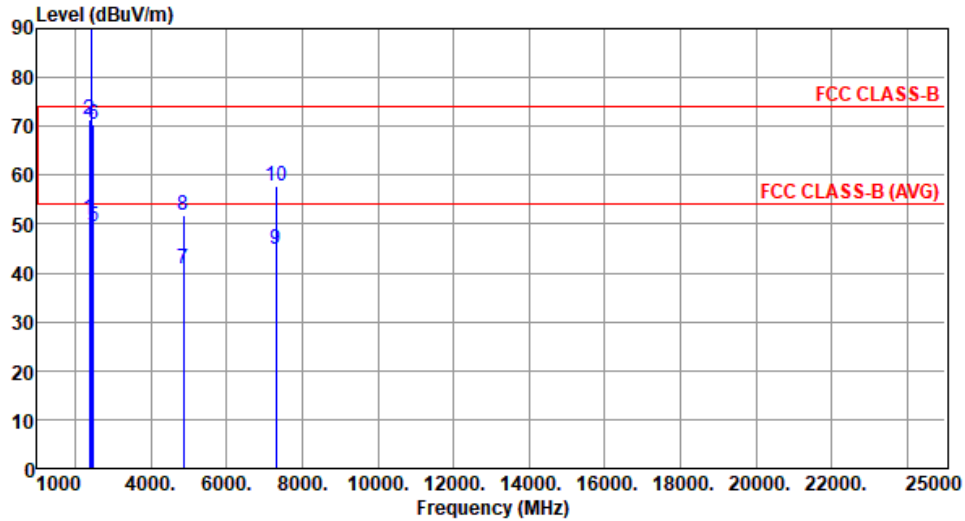
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency



|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11g      | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 51.18                       | 54.00           | -2.82        | 53.98                 | -2.80        | Average | 100               | 263                  |
| 2   | 2390.00      | 71.48                       | 74.00           | -2.52        | 74.28                 | -2.80        | Peak    | 100               | 263                  |
| 3 * | 2437.00      | 110.46                      |                 |              | 113.47                | -3.01        | Average | 100               | 263                  |
| 4 * | 2437.00      | 121.02                      |                 |              | 124.03                | -3.01        | Peak    | 100               | 263                  |
| 5   | 2483.50      | 49.63                       | 54.00           | -4.37        | 52.66                 | -3.03        | Average | 100               | 263                  |
| 6   | 2483.50      | 70.30                       | 74.00           | -3.70        | 73.33                 | -3.03        | Peak    | 100               | 263                  |
| 7   | 4874.00      | 40.88                       | 54.00           | -13.12       | 37.24                 | 3.64         | Average | 100               | 6                    |
| 8   | 4874.00      | 51.66                       | 74.00           | -22.34       | 48.02                 | 3.64         | Peak    | 100               | 6                    |
| 9   | 7311.00      | 44.90                       | 54.00           | -9.10        | 35.63                 | 9.27         | Average | 161               | 292                  |
| 10  | 7311.00      | 57.84                       | 74.00           | -16.16       | 48.57                 | 9.27         | Peak    | 161               | 292                  |

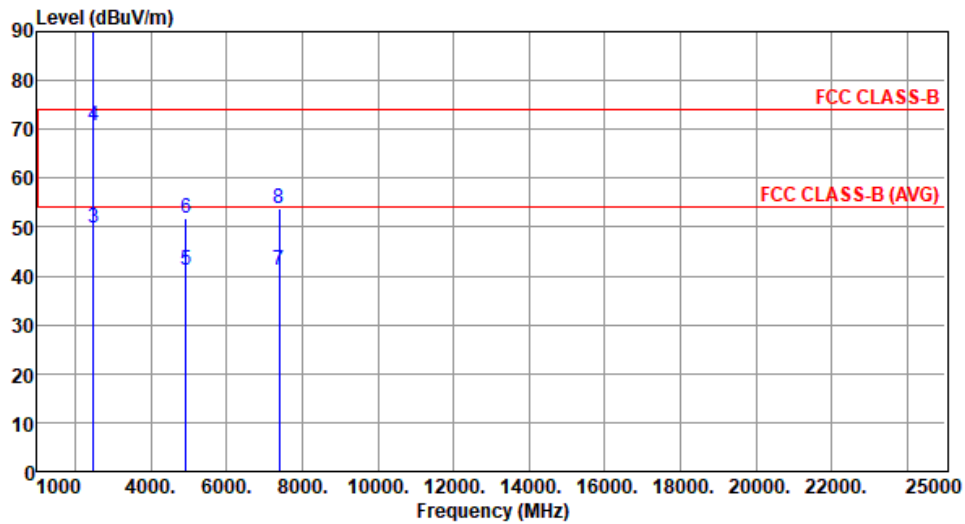
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11g        | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal |                  |      |



|   |   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00      | 104.07                      |                 |              | 107.13                | -3.06        | Average | 238               | 214                  |
| 2 | * | 2462.00      | 113.56                      |                 |              | 116.62                | -3.06        | Peak    | 238               | 214                  |
| 3 |   | 2483.50      | 49.69                       | 54.00           | -4.31        | 52.72                 | -3.03        | Average | 238               | 214                  |
| 4 |   | 2483.50      | 70.86                       | 74.00           | -3.14        | 73.89                 | -3.03        | Peak    | 238               | 214                  |
| 5 |   | 4924.00      | 41.32                       | 54.00           | -12.68       | 37.63                 | 3.69         | Average | 100               | 304                  |
| 6 |   | 4924.00      | 51.74                       | 74.00           | -22.26       | 48.05                 | 3.69         | Peak    | 100               | 304                  |
| 7 |   | 7386.00      | 41.13                       | 54.00           | -12.87       | 32.06                 | 9.07         | Average | 100               | 30                   |
| 8 |   | 7386.00      | 53.89                       | 74.00           | -20.11       | 44.82                 | 9.07         | Peak    | 100               | 30                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11g      | Test Freq. (MHz) | 2462 |
| Polarization | Vertical |                  |      |

Level (dBuV/m)

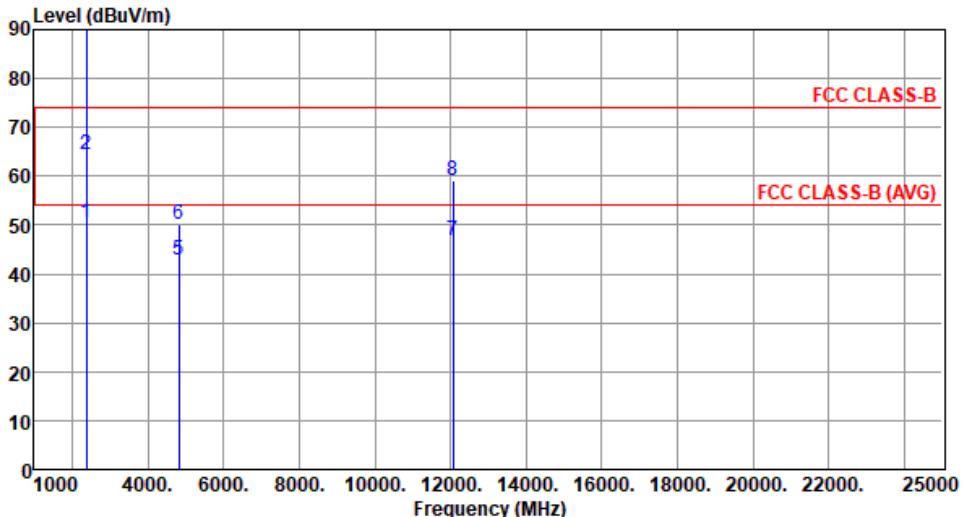
Frequency (MHz)

|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |     |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|-----|
| 1 | *            | 2462.00                     | 105.50          |              | 108.56                | -3.06        | Average | 100               | 240                  |     |
| 2 | *            | 2462.00                     | 115.07          |              | 118.13                | -3.06        | Peak    | 100               | 240                  |     |
| 3 |              | 2483.50                     | 50.56           | 54.00        | -3.44                 | 53.59        | -3.03   | Average           | 100                  | 240 |
| 4 |              | 2483.50                     | 73.62           | 74.00        | -0.38                 | 76.65        | -3.03   | Peak              | 100                  | 240 |
| 5 |              | 4924.00                     | 38.53           | 54.00        | -15.47                | 34.84        | 3.69    | Average           | 100                  | 15  |
| 6 |              | 4924.00                     | 49.77           | 74.00        | -24.23                | 46.08        | 3.69    | Peak              | 100                  | 15  |
| 7 |              | 7386.00                     | 40.93           | 54.00        | -13.07                | 31.86        | 9.07    | Average           | 100                  | 20  |
| 8 |              | 7386.00                     | 53.84           | 74.00        | -20.16                | 44.77        | 9.07    | Peak              | 100                  | 20  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

### 3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE20

|              |            |  |                  |  |      |  |
|--------------|------------|--|------------------|--|------|--|
| Modulation   | ax HE20    |  | Test Freq. (MHz) |  | 2412 |  |
| Polarization | Horizontal |  |                  |  |      |  |



|     | Freq.    | Emission | Limit  | Margin | SA      | Factor | Remark  | ANT  | Turn  |
|-----|----------|----------|--------|--------|---------|--------|---------|------|-------|
|     | MHz      | level    | dBuV/m | dB     | reading | dB     |         | High | Table |
|     |          |          |        |        |         |        |         | cm   | deg   |
| 1   | 2390.00  | 50.45    | 54.00  | -3.55  | 53.25   | -2.80  | Average | 186  | 203   |
| 2   | 2390.00  | 64.33    | 74.00  | -9.67  | 67.13   | -2.80  | Peak    | 186  | 203   |
| 3 * | 2412.00  | 102.68   |        |        | 105.58  | -2.90  | Average | 186  | 203   |
| 4 * | 2412.00  | 112.34   |        |        | 115.24  | -2.90  | Peak    | 186  | 203   |
| 5   | 4824.00  | 42.74    | 54.00  | -11.26 | 39.14   | 3.60   | Average | 100  | 311   |
| 6   | 4824.00  | 50.09    | 74.00  | -23.91 | 46.49   | 3.60   | Peak    | 100  | 311   |
| 7   | 12060.00 | 46.76    | 54.00  | -7.24  | 32.91   | 13.85  | Average | 100  | 315   |
| 8   | 12060.00 | 59.12    | 74.00  | -14.88 | 45.27   | 13.85  | Peak    | 100  | 315   |

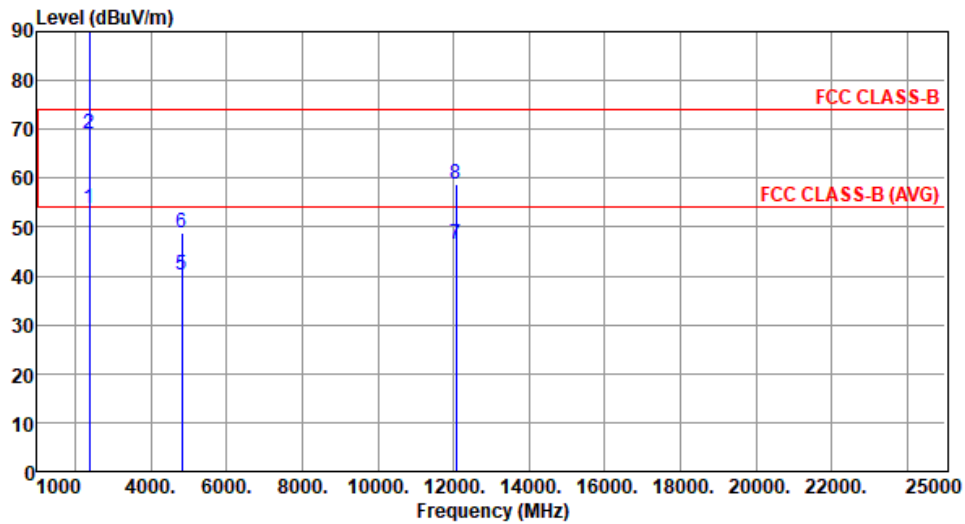
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | ax HE20  | Test Freq. (MHz) | 2412 |
| Polarization | Vertical |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 53.70                       | 54.00           | -0.30        | 56.50                 | -2.80        | Average | 100               | 238                  |
| 2   | 2390.00      | 68.93                       | 74.00           | -5.07        | 71.73                 | -2.80        | Peak    | 100               | 238                  |
| 3 * | 2412.00      | 104.46                      |                 |              | 107.36                | -2.90        | Average | 100               | 238                  |
| 4 * | 2412.00      | 113.95                      |                 |              | 116.85                | -2.90        | Peak    | 100               | 238                  |
| 5   | 4824.00      | 40.17                       | 54.00           | -13.83       | 36.57                 | 3.60         | Average | 100               | 12                   |
| 6   | 4824.00      | 48.85                       | 74.00           | -25.15       | 45.25                 | 3.60         | Peak    | 100               | 12                   |
| 7   | 12060.00     | 46.36                       | 54.00           | -7.64        | 32.51                 | 13.85        | Average | 100               | 20                   |
| 8   | 12060.00     | 58.89                       | 74.00           | -15.11       | 45.04                 | 13.85        | Peak    | 100               | 20                   |

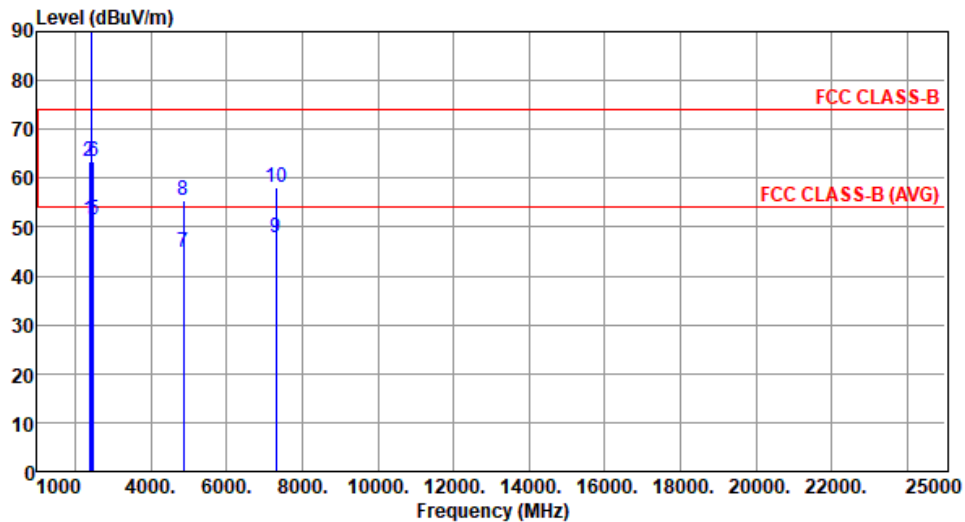
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | ax HE20    | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 51.47                       | 54.00           | -2.53        | 54.27                 | -2.80        | Average | 249               | 213                  |
| 2   | 2390.00      | 63.48                       | 74.00           | -10.52       | 66.28                 | -2.80        | Peak    | 249               | 213                  |
| 3 * | 2437.00      | 108.48                      |                 |              | 111.49                | -3.01        | Average | 249               | 213                  |
| 4 * | 2437.00      | 118.19                      |                 |              | 121.20                | -3.01        | Peak    | 249               | 213                  |
| 5   | 2483.50      | 51.37                       | 54.00           | -2.63        | 54.40                 | -3.03        | Average | 249               | 213                  |
| 6   | 2483.50      | 63.44                       | 74.00           | -10.56       | 66.47                 | -3.03        | Peak    | 249               | 213                  |
| 7   | 4874.00      | 44.87                       | 54.00           | -9.13        | 41.23                 | 3.64         | Average | 100               | 310                  |
| 8   | 4874.00      | 55.59                       | 74.00           | -18.41       | 51.95                 | 3.64         | Peak    | 100               | 310                  |
| 9   | 7311.00      | 47.83                       | 54.00           | -6.17        | 38.56                 | 9.27         | Average | 156               | 312                  |
| 10  | 7311.00      | 58.22                       | 74.00           | -15.78       | 48.95                 | 9.27         | Peak    | 156               | 312                  |

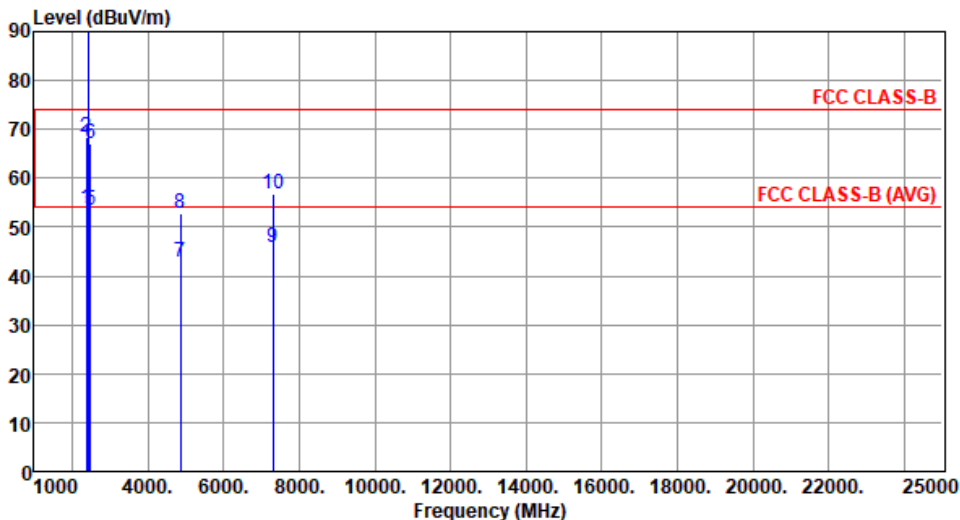
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

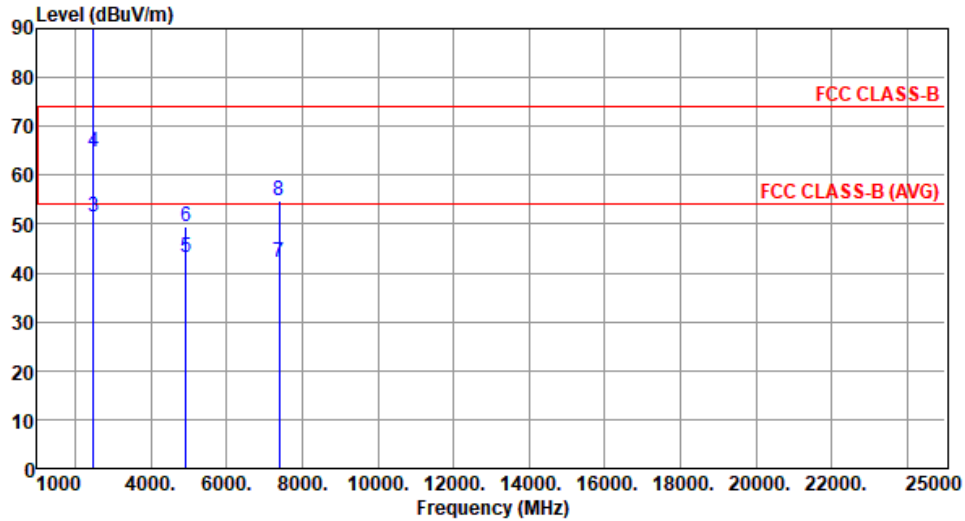
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | ax HE20  | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 53.89                       | 54.00           | -0.11        | 56.69                 | -2.80        | Average | 100               | 241                  |
| 2   | 2390.00      | 68.53                       | 74.00           | -5.47        | 71.33                 | -2.80        | Peak    | 100               | 241                  |
| 3 * | 2437.00      | 110.44                      |                 |              | 113.45                | -3.01        | Average | 100               | 241                  |
| 4 * | 2437.00      | 119.66                      |                 |              | 122.67                | -3.01        | Peak    | 100               | 241                  |
| 5   | 2483.50      | 53.60                       | 54.00           | -0.40        | 56.63                 | -3.03        | Average | 100               | 241                  |
| 6   | 2483.50      | 67.11                       | 74.00           | -6.89        | 70.14                 | -3.03        | Peak    | 100               | 241                  |
| 7   | 4874.00      | 42.73                       | 54.00           | -11.27       | 39.09                 | 3.64         | Average | 100               | 10                   |
| 8   | 4874.00      | 52.74                       | 74.00           | -21.26       | 49.10                 | 3.64         | Peak    | 100               | 10                   |
| 9   | 7311.00      | 45.77                       | 54.00           | -8.23        | 36.50                 | 9.27         | Average | 162               | 295                  |
| 10  | 7311.00      | 56.87                       | 74.00           | -17.13       | 47.60                 | 9.27         | Peak    | 162               | 295                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | ax HE20    | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal |                  |      |



|   |   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00      | 102.67                      |                 |              | 105.73                | -3.06        | Average | 186               | 206                  |
| 2 | * | 2462.00      | 112.39                      |                 |              | 115.45                | -3.06        | Peak    | 186               | 206                  |
| 3 |   | 2483.50      | 51.43                       | 54.00           | -2.57        | 54.46                 | -3.03        | Average | 186               | 206                  |
| 4 |   | 2483.50      | 64.81                       | 74.00           | -9.19        | 67.84                 | -3.03        | Peak    | 186               | 206                  |
| 5 |   | 4924.00      | 43.17                       | 54.00           | -10.83       | 39.48                 | 3.69         | Average | 100               | 325                  |
| 6 |   | 4924.00      | 49.35                       | 74.00           | -24.65       | 45.66                 | 3.69         | Peak    | 100               | 325                  |
| 7 |   | 7386.00      | 42.06                       | 54.00           | -11.94       | 32.99                 | 9.07         | Average | 100               | 314                  |
| 8 |   | 7386.00      | 54.69                       | 74.00           | -19.31       | 45.62                 | 9.07         | Peak    | 100               | 314                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency



|              |          |  |                  |  |      |  |
|--------------|----------|--|------------------|--|------|--|
| Modulation   | ax HE20  |  | Test Freq. (MHz) |  | 2462 |  |
| Polarization | Vertical |  |                  |  |      |  |

|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |     |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|-----|
| 1 | *            | 2462.00                     | 104.90          |              | 107.96                | -3.06        | Average | 100               | 240                  |     |
| 2 | *            | 2462.00                     | 115.15          |              | 118.21                | -3.06        | Peak    | 100               | 240                  |     |
| 3 |              | 2483.50                     | 53.57           | 54.00        | -0.43                 | 56.60        | -3.03   | Average           | 100                  | 240 |
| 4 |              | 2483.50                     | 67.43           | 74.00        | -6.57                 | 70.46        | -3.03   | Peak              | 100                  | 240 |
| 5 |              | 4924.00                     | 40.76           | 54.00        | -13.24                | 37.07        | 3.69    | Average           | 100                  | 5   |
| 6 |              | 4924.00                     | 47.63           | 74.00        | -26.37                | 43.94        | 3.69    | Peak              | 100                  | 5   |
| 7 |              | 7386.00                     | 41.06           | 54.00        | -12.94                | 31.99        | 9.07    | Average           | 100                  | 20  |
| 8 |              | 7386.00                     | 53.40           | 74.00        | -20.60                | 44.33        | 9.07    | Peak              | 100                  | 20  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

### 3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE40

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ax HE40    | Test Freq. (MHz) | 2422 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Horizontal |                  |      |
| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | ax HE40  | Test Freq. (MHz) | 2422 |
| Polarization | Vertical |                  |      |

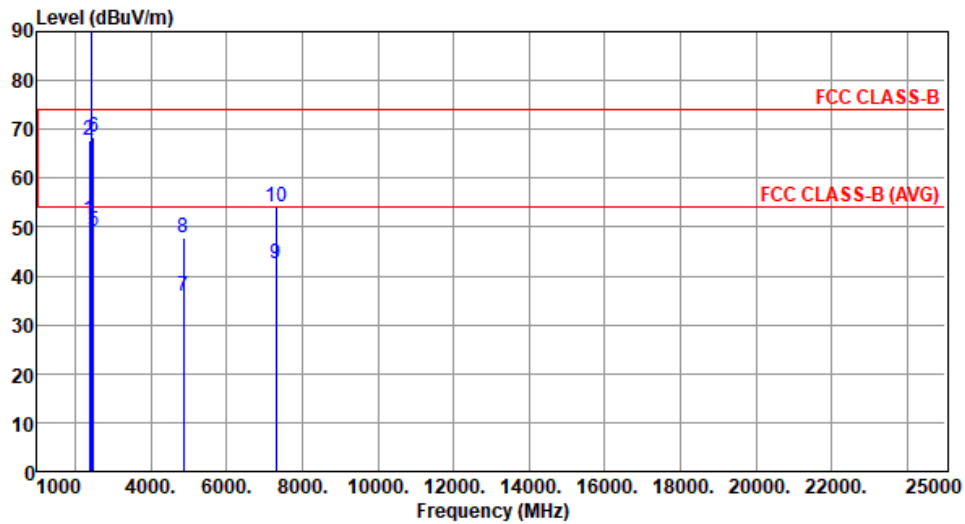
|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 53.54                       | 54.00           | -0.46        | 56.34                 | -2.80        | Average | 168               | 243                  |
| 2   | 2390.00      | 68.73                       | 74.00           | -5.27        | 71.53                 | -2.80        | Peak    | 168               | 243                  |
| 3 * | 2422.00      | 99.84                       |                 |              | 102.78                | -2.94        | Average | 168               | 243                  |
| 4 * | 2422.00      | 108.25                      |                 |              | 111.19                | -2.94        | Peak    | 168               | 243                  |
| 5   | 4844.00      | 34.80                       | 54.00           | -19.20       | 31.15                 | 3.65         | Average | 100               | 40                   |
| 6   | 4844.00      | 47.66                       | 74.00           | -26.34       | 44.01                 | 3.65         | Peak    | 100               | 40                   |
| 7   | 7266.00      | 40.73                       | 54.00           | -13.27       | 31.40                 | 9.33         | Average | 100               | 50                   |
| 8   | 7266.00      | 53.29                       | 74.00           | -20.71       | 43.96                 | 9.33         | Peak    | 100               | 50                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | ax HE40    | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 2390.00      | 51.51                       | 54.00           | -2.49        | 54.31                 | -2.80        | Average | 183               | 201                  |
| 2   | 2390.00      | 67.80                       | 74.00           | -6.20        | 70.60                 | -2.80        | Peak    | 183               | 201                  |
| 3 * | 2437.00      | 100.42                      |                 |              | 103.43                | -3.01        | Average | 183               | 201                  |
| 4 * | 2437.00      | 109.63                      |                 |              | 112.64                | -3.01        | Peak    | 183               | 201                  |
| 5   | 2483.50      | 49.26                       | 54.00           | -4.74        | 52.29                 | -3.03        | Average | 183               | 201                  |
| 6   | 2483.50      | 68.29                       | 74.00           | -5.71        | 71.32                 | -3.03        | Peak    | 183               | 201                  |
| 7   | 4874.00      | 35.83                       | 54.00           | -18.17       | 32.19                 | 3.64         | Average | 100               | 325                  |
| 8   | 4874.00      | 47.73                       | 74.00           | -26.27       | 44.09                 | 3.64         | Peak    | 100               | 325                  |
| 9   | 7311.00      | 42.49                       | 54.00           | -11.51       | 33.22                 | 9.27         | Average | 100               | 315                  |
| 10  | 7311.00      | 54.00                       | 74.00           | -20.00       | 44.73                 | 9.27         | Peak    | 100               | 315                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

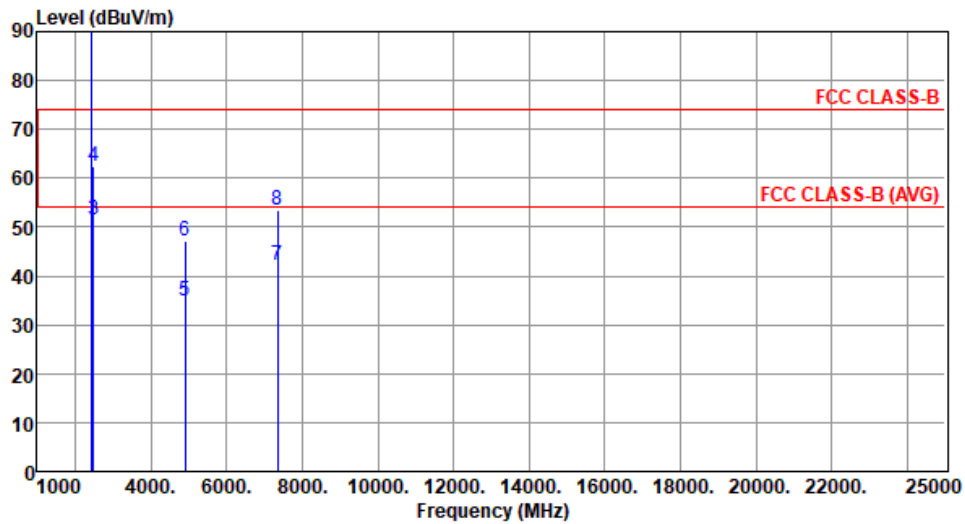
\*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

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(MHz) | 2437 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Vertical |                  |      |
| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|          |                  |      |

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | ax HE40    | Test Freq. (MHz) | 2452 |
| Polarization | Horizontal |                  |      |



|   |   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2452.00      | 96.79                       |                 |              | 99.86                 | -3.07        | Average | 186               | 202                  |
| 2 | * | 2452.00      | 106.06                      |                 |              | 109.13                | -3.07        | Peak    | 186               | 202                  |
| 3 |   | 2483.50      | 51.47                       | 54.00           | -2.53        | 54.50                 | -3.03        | Average | 100               | 255                  |
| 4 |   | 2483.50      | 62.54                       | 74.00           | -11.46       | 65.57                 | -3.03        | Peak    | 100               | 255                  |
| 5 |   | 4904.00      | 34.76                       | 54.00           | -19.24       | 31.13                 | 3.63         | Average | 100               | 60                   |
| 6 |   | 4904.00      | 47.27                       | 74.00           | -26.73       | 43.64                 | 3.63         | Peak    | 100               | 60                   |
| 7 |   | 7356.00      | 42.17                       | 54.00           | -11.83       | 33.09                 | 9.08         | Average | 100               | 80                   |
| 8 |   | 7356.00      | 53.41                       | 74.00           | -20.59       | 44.33                 | 9.08         | Peak    | 100               | 80                   |

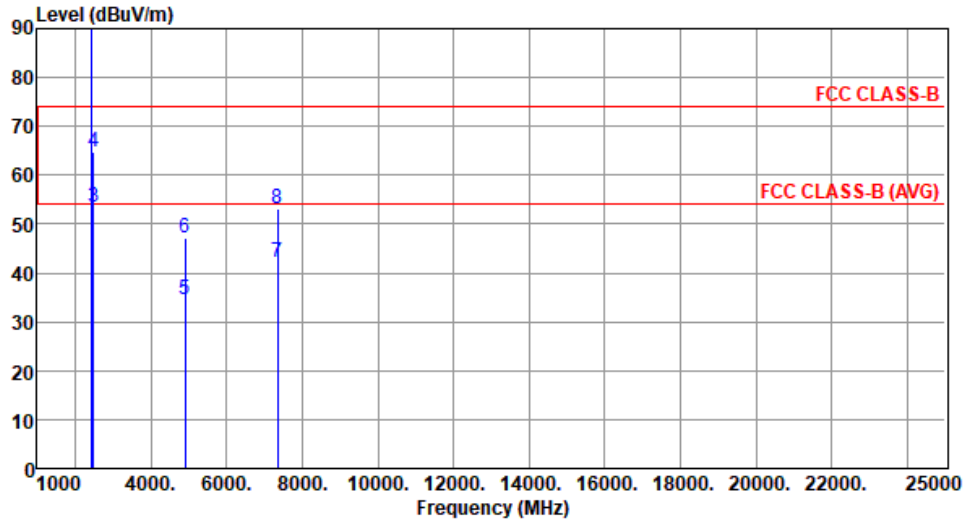
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | ax HE40  | Test Freq. (MHz) | 2452 |
| Polarization | Vertical |                  |      |



|   |   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2452.00      | 98.69                       |                 |              | 101.76                | -3.07        | Average | 177               | 248                  |
| 2 | * | 2452.00      | 108.15                      |                 |              | 111.22                | -3.07        | Peak    | 177               | 248                  |
| 3 |   | 2483.50      | 53.61                       | 54.00           | -0.39        | 56.64                 | -3.03        | Average | 102               | 72                   |
| 4 |   | 2483.50      | 64.74                       | 74.00           | -9.26        | 67.77                 | -3.03        | Peak    | 102               | 72                   |
| 5 |   | 4904.00      | 34.63                       | 54.00           | -19.37       | 31.00                 | 3.63         | Average | 100               | 50                   |
| 6 |   | 4904.00      | 47.08                       | 74.00           | -26.92       | 43.45                 | 3.63         | Peak    | 100               | 50                   |
| 7 |   | 7356.00      | 42.07                       | 54.00           | -11.93       | 32.99                 | 9.08         | Average | 100               | 40                   |
| 8 |   | 7356.00      | 53.17                       | 74.00           | -20.83       | 44.09                 | 9.08         | Peak    | 100               | 40                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

## 3.6 Emissions in Non-Restricted Frequency Bands

### 3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

### 3.6.2 Test Procedures

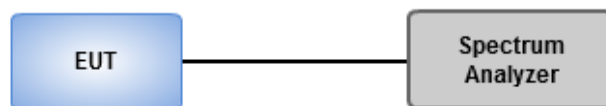
#### Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

#### Emission level measurement

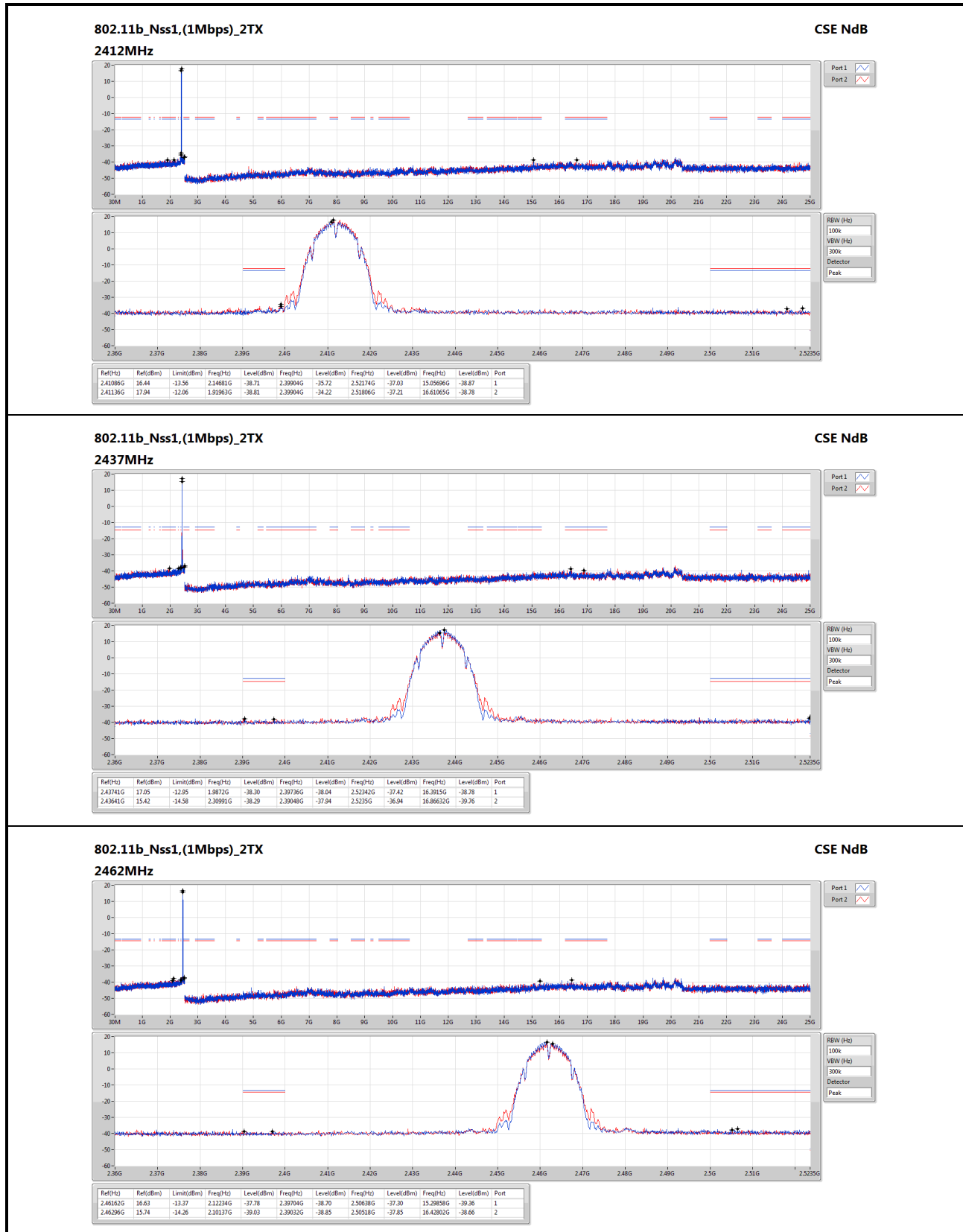
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

### 3.6.3 Test Setup



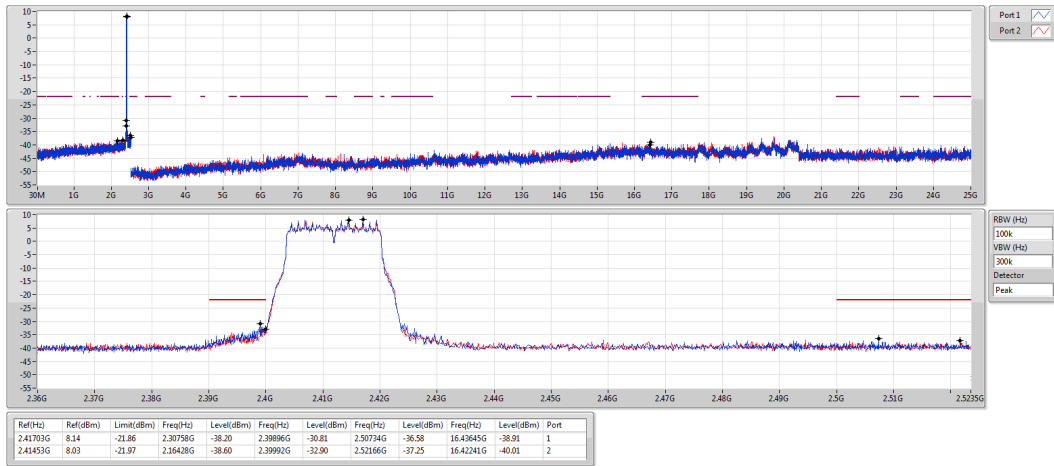


### 3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands



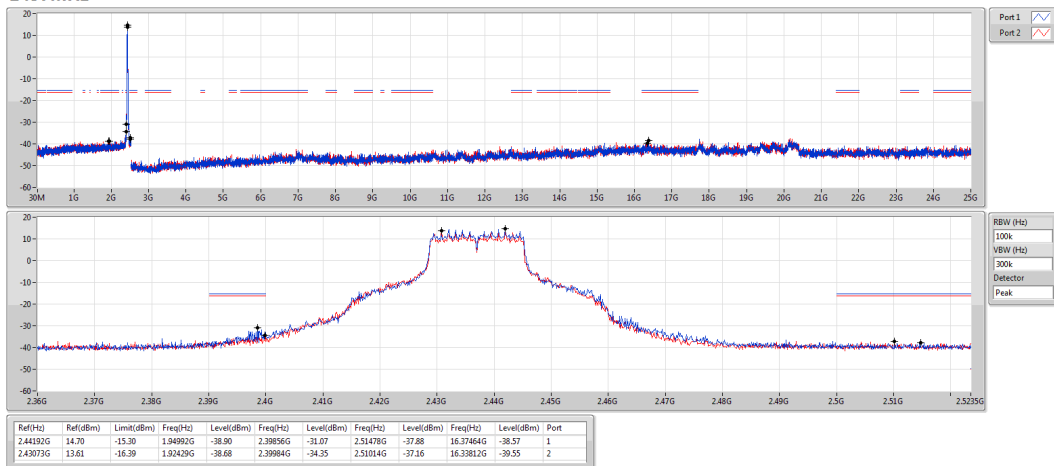
802.11g\_Nss1,(6Mbps)\_2TX  
2412MHz

CSE NdB



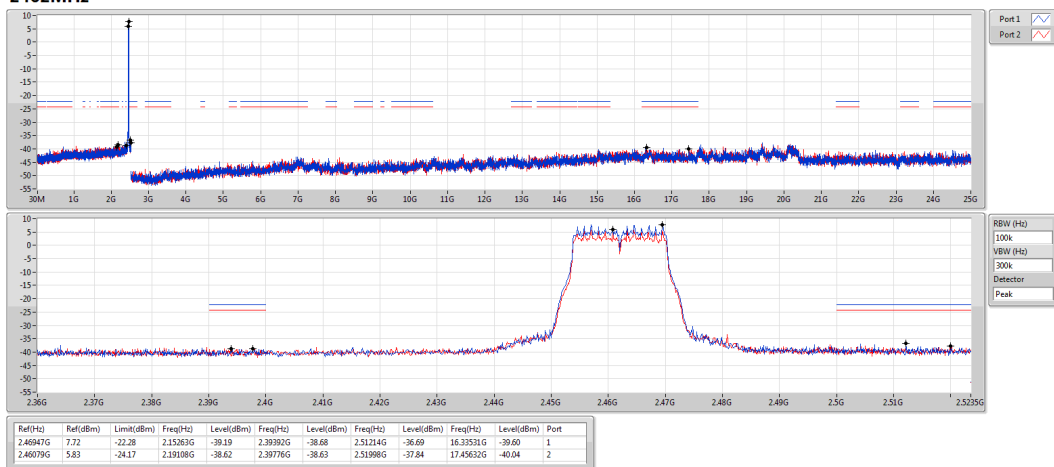
802.11g\_Nss1,(6Mbps)\_2TX  
2437MHz

CSE NdB



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

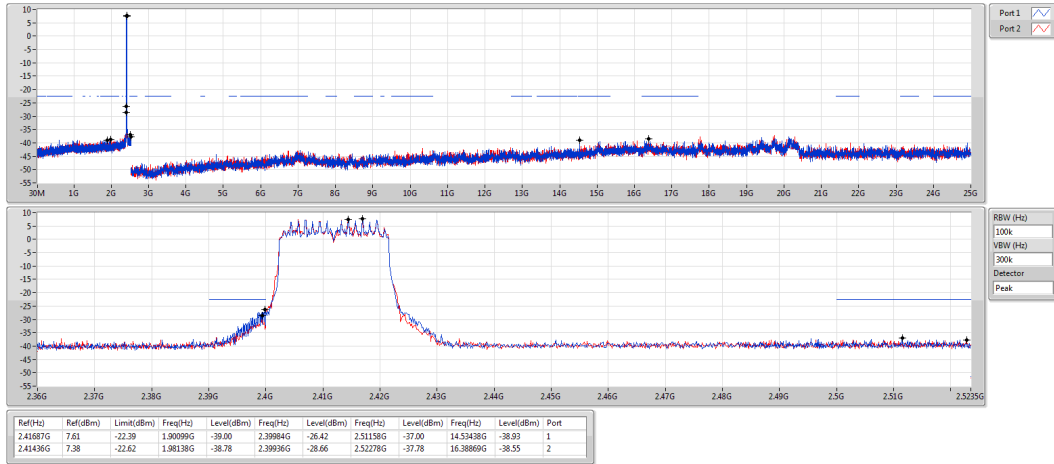
CSE NdB



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

CSE NdB

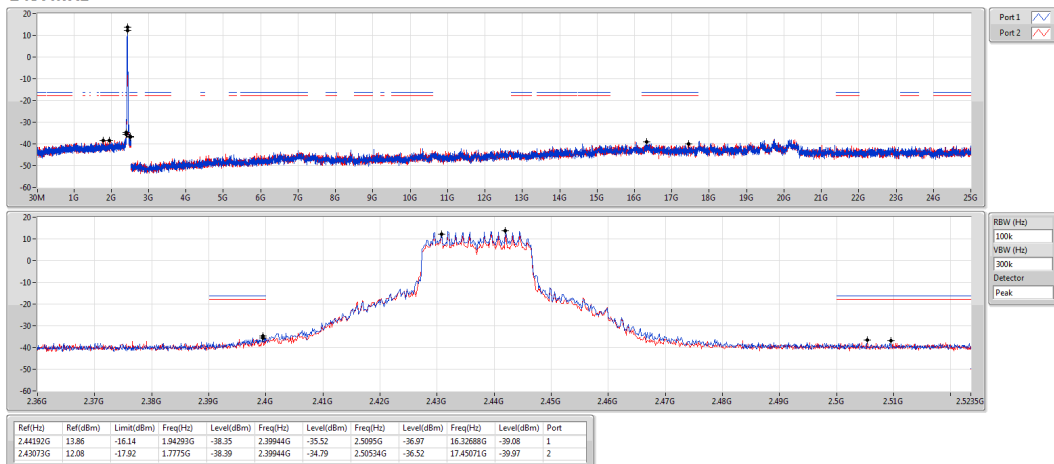
2412MHz



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

CSE NdB

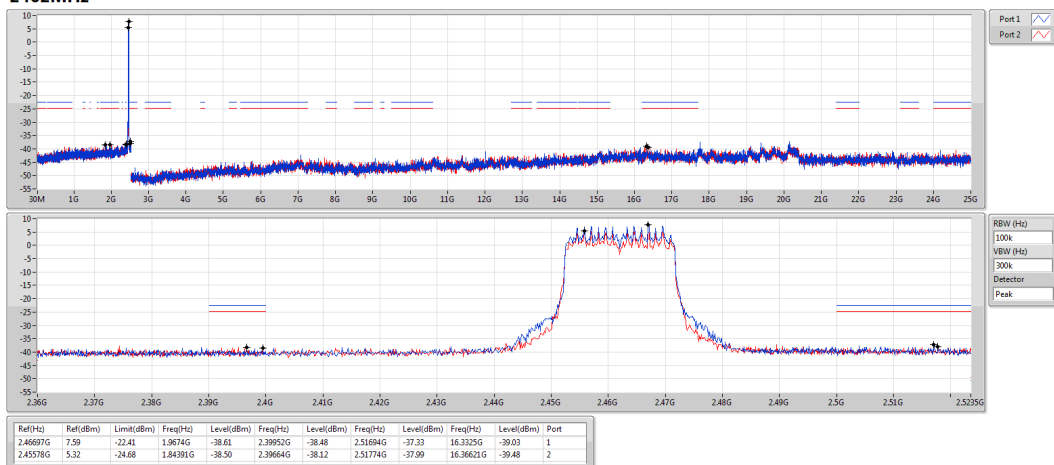
2437MHz



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

CSE NdB

2462MHz



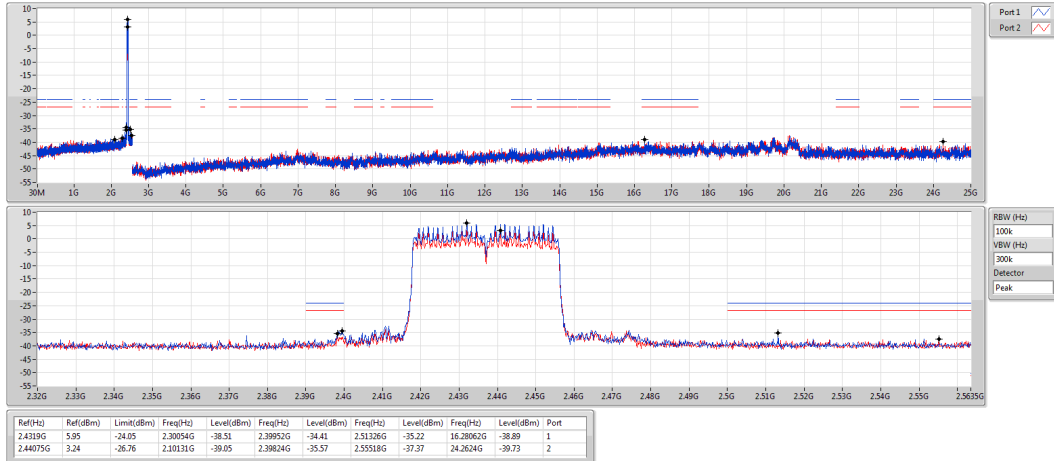
802.11ax HEW40\_Nss1,(MCS0)\_2TX  
2422MHz

CSE NdB



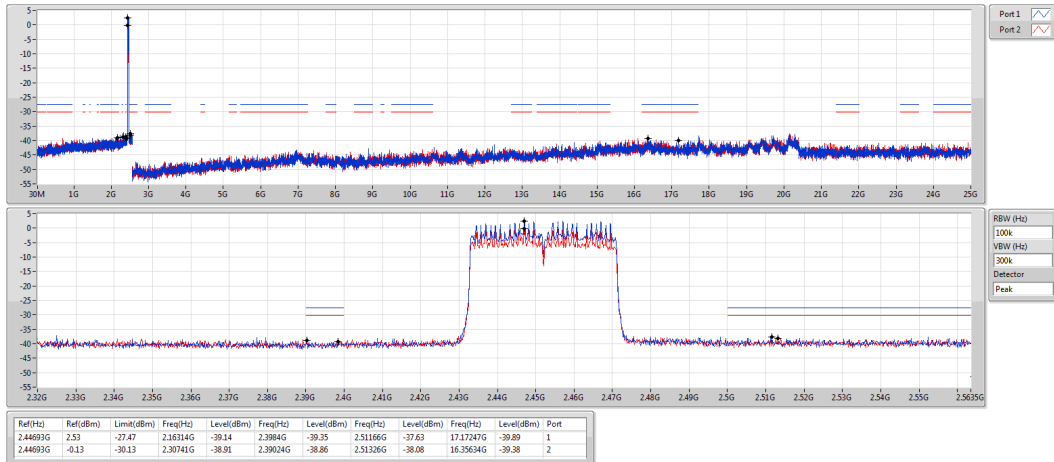
802.11ax HEW40\_Nss1,(MCS0)\_2TX  
2437MHz

CSE NdB



802.11ax HEW40\_Nss1,(MCS0)\_2TX  
2452MHz

CSE NdB



## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin  
Kou District, New Taipei City,  
Taiwan, R.O.C.

### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,  
Kwei Shan District, Tao Yuan City  
333, Taiwan, R.O.C.

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd  
St., Kwei Shan District, Tao Yuan  
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC\_Service@icertifi.com.tw

==END==