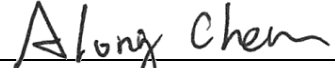


# FCC Test Report

**FCC ID** : P27RP362M  
**Equipment** : AC2100 Wi-Fi Mesh Extender ;  
AC2100 Wi-Fi Mesh Router  
**Model No.** : RP362M ; IP3421M  
**Multiple Listing** : Refer to item 1.1.1 for more details  
**Brand Name** : Sercomm  
**Applicant** : Sercomm Corporation  
**Address** : 8F, No. 3-1, YuanQu St., NanKang, Taipei 115,  
Taiwan, R.O.C.  
**Standard** : 47 CFR FCC Part 15.407  
**Received Date** : Feb. 12, 2020  
**Tested Date** : Mar. 04 ~ Apr. 08, 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



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## Release Record

| Report No. | Version | Description   | Issued Date   |
|------------|---------|---------------|---------------|
| FR021202AN | Rev. 01 | Initial issue | Apr. 22, 2020 |

## Summary of Test Results

| FCC Rules           | Test Items                  | Measured                                                                                                                                                               | Result |
|---------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 15.207              | Conducted Emissions         | [dBuV]: 0.796MHz<br>28.76 (Margin -17.24dB) - AV                                                                                                                       | Pass   |
| 15.407(b)<br>15.209 | Radiated Emissions          | [dBuV/m at 3m]: 11490.00MHz<br>52.99 (Margin -1.01dB) - AV                                                                                                             | Pass   |
| 15.407(a)           | Emission Bandwidth          | Meet the requirement of limit                                                                                                                                          | Pass   |
| 15.407(e)           | 6dB bandwidth               | Meet the requirement of limit                                                                                                                                          | Pass   |
| 15.407(a)           | RF Output Power             | Max Power [dBm]:<br><i>Non-beamforming mode</i><br>5150-5250MHz: 26.21<br>5725-5850MHz: 27.20<br><i>Beamforming mode</i><br>5150-5250MHz: 25.96<br>5725-5850MHz: 27.18 | Pass   |
| 15.407(a)           | Peak Power Spectral Density | Meet the requirement of limit                                                                                                                                          | Pass   |
| 15.407(g)           | Frequency Stability         | 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 Product Details

The following models are provided to this EUT.

| Brand Name                                                                                                                                                                                                                                                                                                                                                                                 | Model Name        | Product Name               | Description                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|---------------------------------------------------------|
| Sercomm                                                                                                                                                                                                                                                                                                                                                                                    | RP362MXXXXXXXXXX  | AC2100 Wi-Fi Mesh Extender | FW: v1.00.01<br>supports 2 LANs.<br>Indoor AP / Client  |
| Sercomm                                                                                                                                                                                                                                                                                                                                                                                    | IP3421MXXXXXXXXXX | AC2100 Wi-Fi Mesh Router   | FW: v1.00.00.001<br>supports 1 WAN & 1 LAN<br>Indoor AP |
| <ul style="list-style-type: none"> <li>✦ the 1st X should be "blank" or "-"; the rest X could be 0 to 9, A to Z, "blank", "- " or "/" , for marketing purpose.</li> <li>✦ The above models used the same hardware but with the different firmware.</li> <li>✦ The above models, model <b>RP362M</b> and <b>IP3421M</b> were selected as a representative one for the final test</li> </ul> |                   |                            |                                                         |

### 1.1.2 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 |
| 5150-5250<br>5725-5850                                                                                                                                                                                                                   | a                | 5180-5240<br>5745-5825 | 36-48 [4]<br>149-165 [5] | 4                                  | 6-54 Mbps       |
| 5150-5250<br>5725-5850                                                                                                                                                                                                                   | n (HT20)         | 5180-5240<br>5745-5825 | 36-48 [4]<br>149-165 [5] | 4                                  | MCS 0-31        |
| 5150-5250<br>5725-5850                                                                                                                                                                                                                   | n (HT40)         | 5190-5230<br>5755-5795 | 38-46 [2]<br>151-159 [2] | 4                                  | MCS 0-31        |
| 5150-5250<br>5725-5850                                                                                                                                                                                                                   | ac (VHT20)       | 5180-5240<br>5745-5825 | 36-48 [4]<br>149-165 [5] | 4                                  | MCS 0-9         |
| 5150-5250<br>5725-5850                                                                                                                                                                                                                   | ac (VHT40)       | 5190-5230<br>5755-5795 | 38-46 [2]<br>151-159 [2] | 4                                  | MCS 0-9         |
| 5150-5250<br>5725-5850                                                                                                                                                                                                                   | ac (VHT80)       | 5210<br>5775           | 42 [1]<br>155 [1]        | 4                                  | MCS 0-9         |
| <p>Note 1: RF output power specifies that Maximum Conducted Output Power.</p> <p>Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.</p> <p>Note 3: 802.11ac supports beamforming function.</p> |                  |                        |                          |                                    |                 |

### 1.1.3 Antenna Details

| Ant. No. | Model          | Type   | Connector | Operating Frequency (MHz) / Gain (dBi) |           |
|----------|----------------|--------|-----------|----------------------------------------|-----------|
|          |                |        |           | 5150~5250                              | 5725~5850 |
| 1        | Dual Ant 1     | Dipole | i-pex     | 2.03                                   | 2.45      |
| 2        | Dual ANT 2     | Dipole | i-pex     | 2.24                                   | 2.59      |
| 3        | Wi Fi 5G Ant 1 | PIFA   | N/A       | 2.35                                   | 2.5       |
| 4        | Wi Fi 5G Ant 2 | PIFA   | N/A       | 2.29                                   | 2.66      |

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

|                   |                       |
|-------------------|-----------------------|
| Power Supply Type | 12Vdc from AC adapter |
|-------------------|-----------------------|

### 1.1.5 Accessories

| Accessories |            |                                                                                                                                                                                                  |
|-------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No.         | Equipment  | Description                                                                                                                                                                                      |
| 1           | AC adapter | Brand: MOSO<br>Model: MSS-H1000WR120-012B0-US<br>I/P: 100-240Vac, 50/60Hz, 0.5A max<br>O/P: 12.0Vdc, 1A<br>Power Line: 1.5m non-shielded without core<br>Note: The adapter has 2 configurations. |

Note: There are two designs for the adapter, with or without Y-capacitor.

### 1.1.6 Channel List

| For Frequency band 5150-5250 MHz |                |              |                |
|----------------------------------|----------------|--------------|----------------|
| 802.11 a / HT20 / VHT20          |                | HT40 / VHT40 |                |
| Channel                          | Frequency(MHz) | Channel      | Frequency(MHz) |
| 36                               | 5180           | 38           | 5190           |
| 40                               | 5200           | 46           | 5230           |
| 44                               | 5220           | VHT80        |                |
| 48                               | 5240           | 42           | 5210           |

| For Frequency band 5725~5850 MHz |                |              |                |
|----------------------------------|----------------|--------------|----------------|
| 802.11 a / HT20 / VHT20          |                | HT40 / VHT40 |                |
| Channel                          | Frequency(MHz) | Channel      | Frequency(MHz) |
| 149                              | 5745           | 151          | 5755           |
| 153                              | 5765           | 159          | 5795           |
| 157                              | 5785           | VHT80        |                |
| 161                              | 5805           | 155          | 5775           |
| 165                              | 5825           | ---          | ---            |

### 1.1.7 Test Tool and Duty Cycle

Non-beamforming

| Test Tool                  | MT7615 QA, V0.0.2.0 |                |                  |
|----------------------------|---------------------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode                | Duty Cycle (%) | Duty Factor (dB) |
|                            | 11a                 | 97.02%         | 0.13             |
|                            | VHT20               | 96.85%         | 0.14             |
|                            | VHT40               | 93.13%         | 0.31             |
|                            | VHT80               | 92.14%         | 0.36             |

Beamforming

| Test Tool                  | Putty, V0.60.0.0 |                |                  |
|----------------------------|------------------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode             | Duty Cycle (%) | Duty Factor (dB) |
|                            | VHT20            | 98.31%         | 0.07             |
|                            | VHT40            | 94.41%         | 0.25             |
|                            | VHT80            | 98.10%         | 0.08             |



### 1.1.8 Power Index of Test Tool

For indoor AP

| Modulation Mode | Test Frequency (MHz) | Power Index     |             |
|-----------------|----------------------|-----------------|-------------|
|                 |                      | Non-Beamforming | Beamforming |
| 11a             | 5180                 | 15              | ---         |
| 11a             | 5200                 | 1C              | ---         |
| 11a             | 5240                 | 20              | ---         |
| 11a             | 5745                 | 20              | ---         |
| 11a             | 5785                 | 20              | ---         |
| 11a             | 5825                 | 20              | ---         |
| VHT20           | 5180                 | 16              | 24          |
| VHT20           | 5200                 | 1E              | 31          |
| VHT20           | 5240                 | 24              | 37          |
| VHT20           | 5745                 | 24              | 37          |
| VHT20           | 5785                 | 24              | 37          |
| VHT20           | 5825                 | 24              | 37          |
| VHT40           | 5190                 | 12              | 17          |
| VHT40           | 5230                 | 1A              | 28          |
| VHT40           | 5755                 | 1D              | 30          |
| VHT40           | 5795                 | 24              | 37          |
| VHT80           | 5210                 | 0E              | 13          |
| VHT80           | 5775                 | 17              | 22          |

For Client

| Modulation Mode | Test Frequency (MHz) | Power Index     |             |
|-----------------|----------------------|-----------------|-------------|
|                 |                      | Non-Beamforming | Beamforming |
| 11a             | 5180                 | 13              | ---         |
| 11a             | 5200                 | 12              | ---         |
| 11a             | 5240                 | 11              | ---         |
| VHT20           | 5180                 | 16              | 24          |
| VHT20           | 5200                 | 16              | 24          |
| VHT20           | 5240                 | 15              | 23          |
| VHT40           | 5190                 | 12              | 17          |
| VHT40           | 5230                 | 1A              | 26          |
| VHT80           | 5210                 | 0E              | 13          |

## 1.2 Local Support Equipment List

### *Non-beamforming mode*

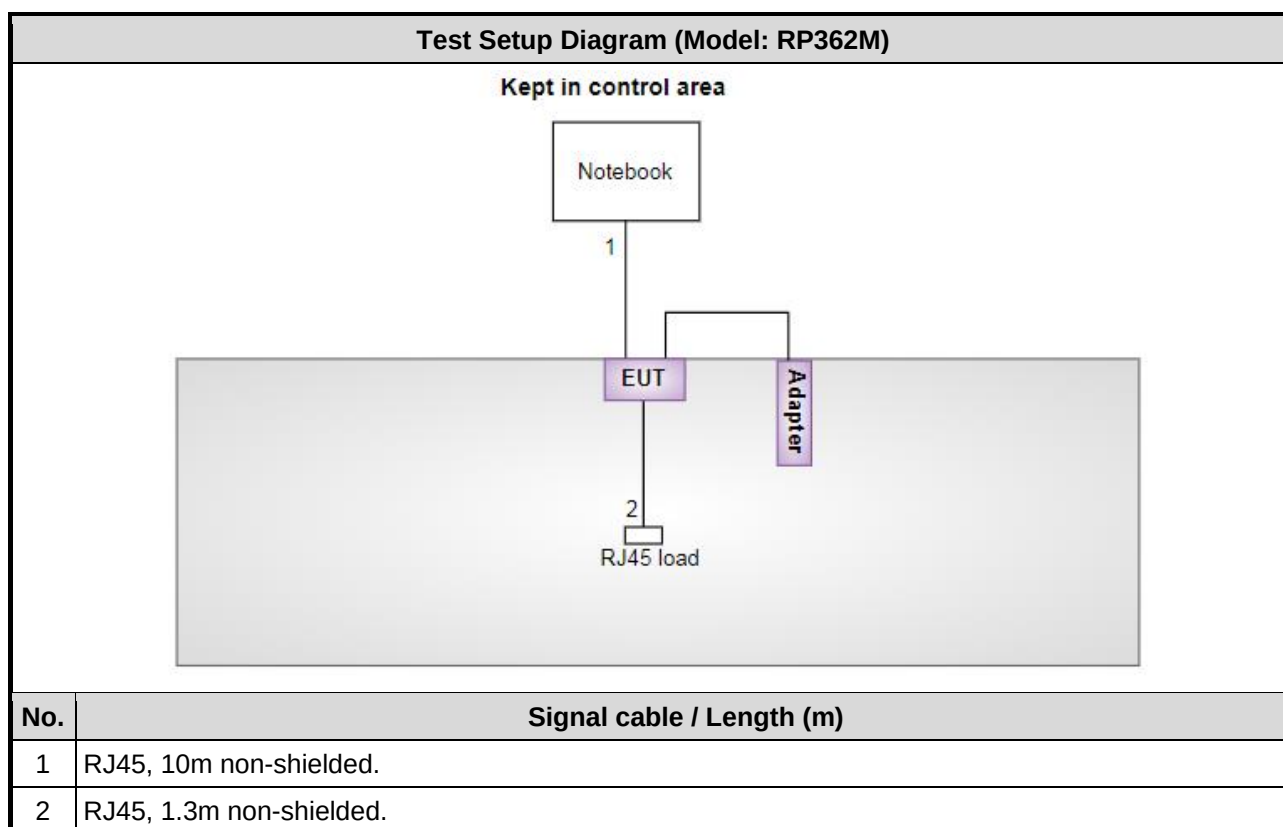
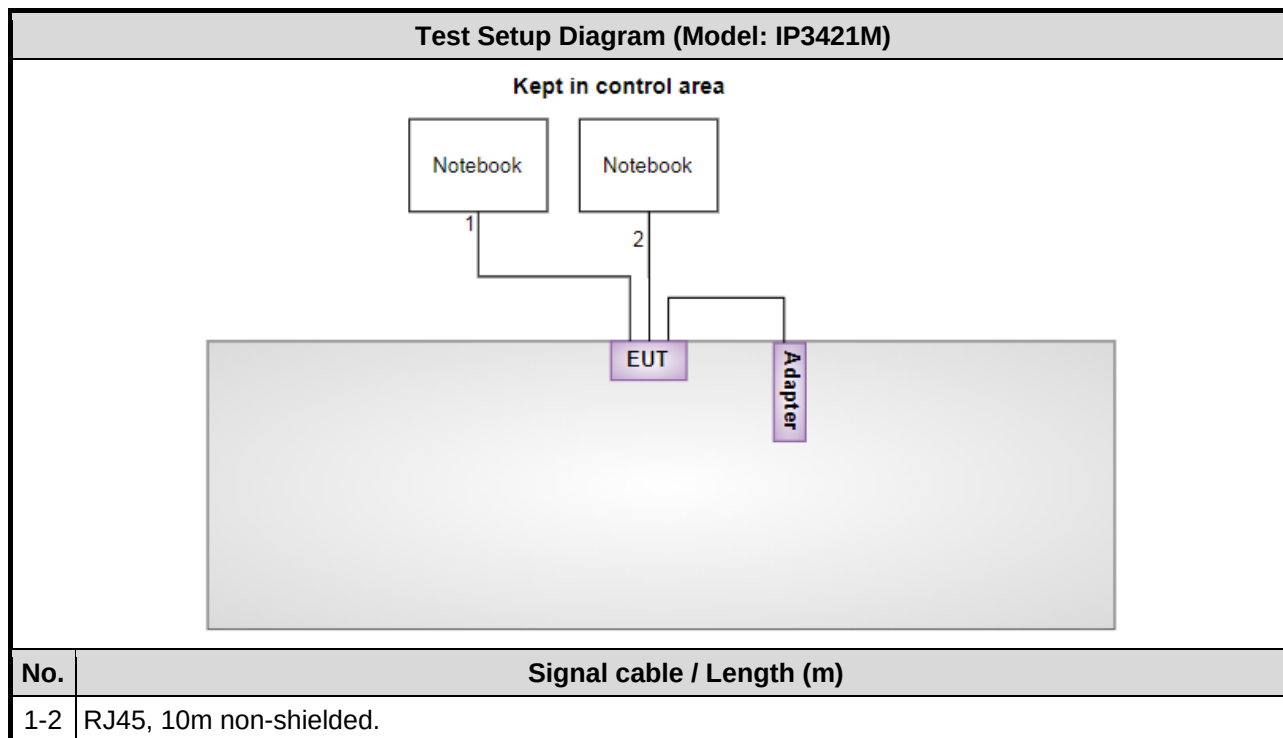
| Support Equipment List |           |       |                |        |         |
|------------------------|-----------|-------|----------------|--------|---------|
| No.                    | Equipment | Brand | Model          | FCC ID | Remarks |
| 1                      | Notebook  | DELL  | Latitude E5470 | DoC    | ---     |
| 2                      | Notebook  | DELL  | Latitude E6440 | DoC    | ---     |
| 3                      | RJ45 Load | ICC   | ---            | ---    | ---     |

### *Beamforming mode*

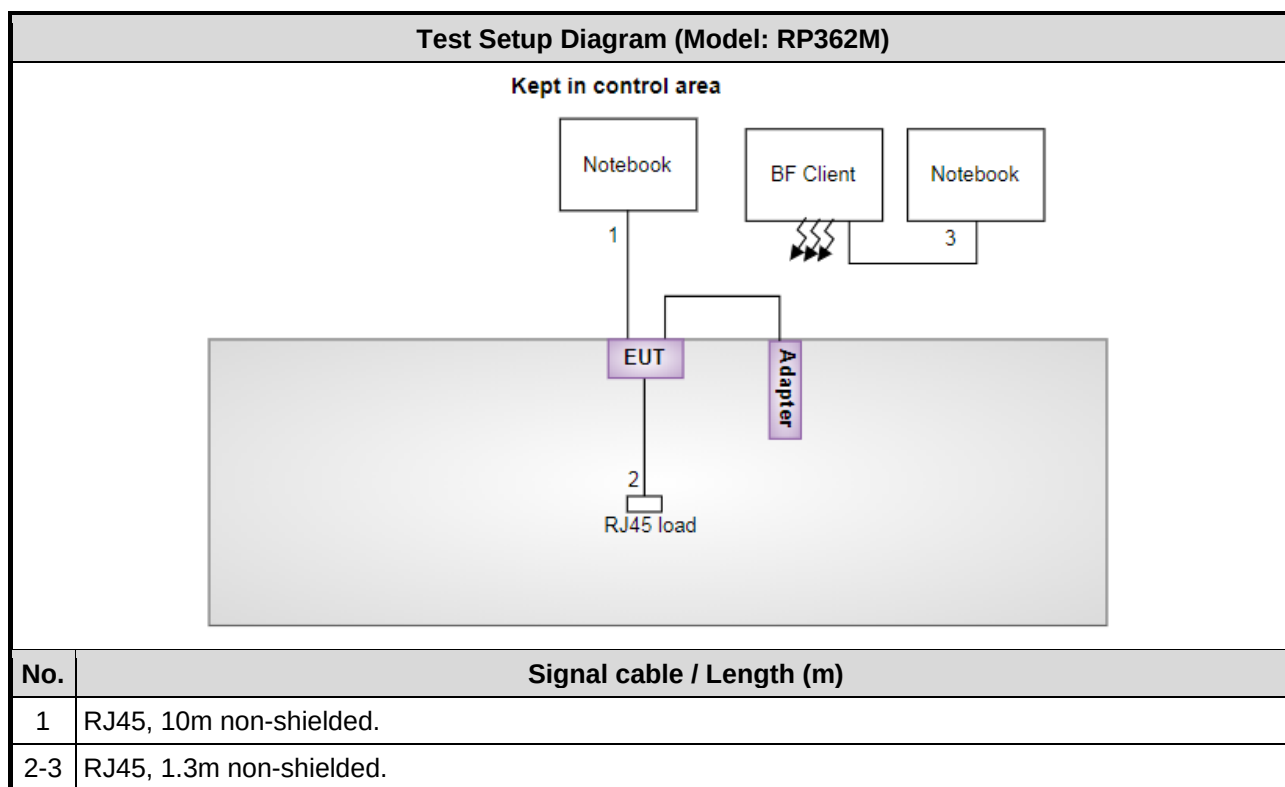
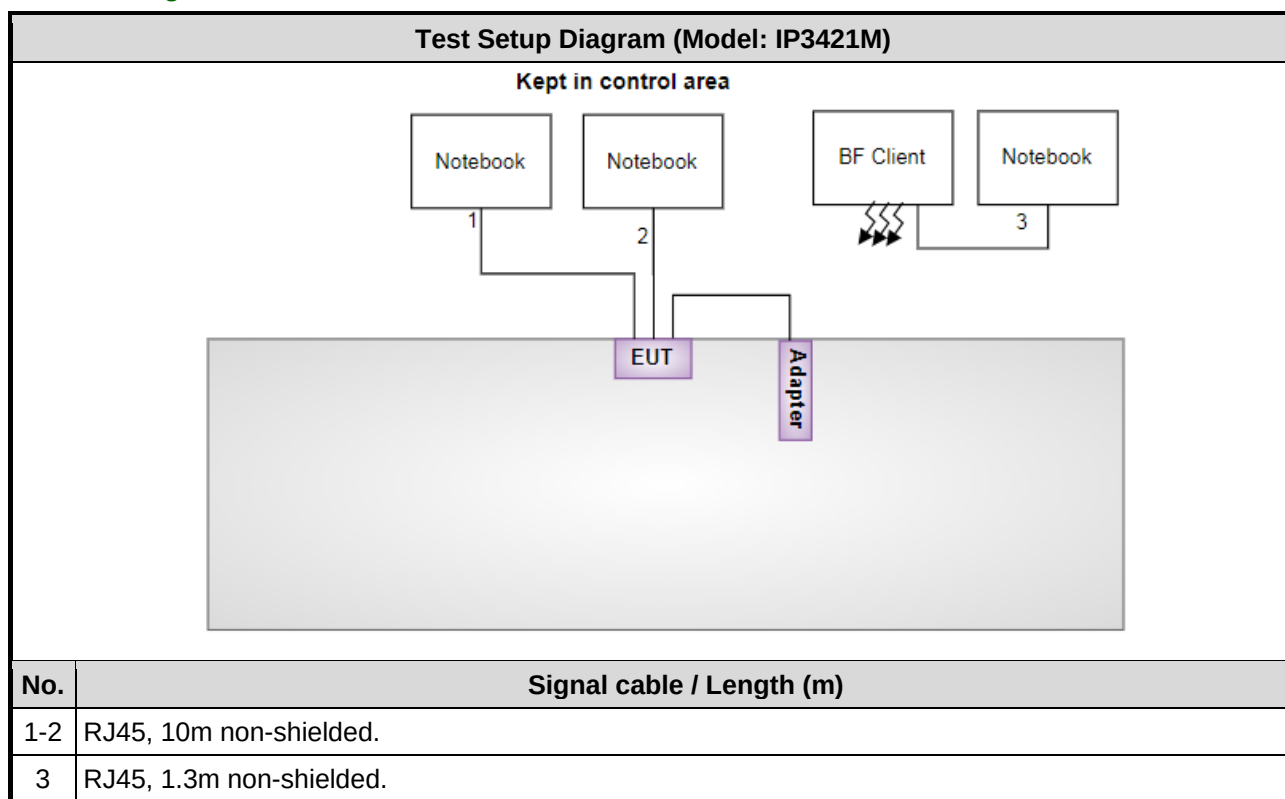
| Support Equipment List |                                              |         |                |        |                        |
|------------------------|----------------------------------------------|---------|----------------|--------|------------------------|
| No.                    | Equipment                                    | Brand   | Model          | FCC ID | Remarks                |
| 1                      | Notebook                                     | DELL    | Latitude E5470 | DoC    | ---                    |
| 2                      | Notebook                                     | DELL    | Latitude E6440 | DoC    | ---                    |
| 3                      | Notebook                                     | DELL    | Latitude E6430 | DoC    | ---                    |
| 4                      | RJ45 Load                                    | ICC     | ---            | ---    | ---                    |
| 5                      | BF Client<br>(AC2100 Wi-Fi<br>Mesh Extender) | Sercomm | IP3421M        | ---    | Provided by applicant. |
| 6                      | BF Client<br>(AC2100 Wi-Fi<br>Mesh Extender) | Sercomm | RP362M         | ---    | Provided by applicant. |

## 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>                                                  | Apr. 02, 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. 12, 2020           | Mar. 11, 2021            |
| 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 chamber 3 / (03CH03-WS) |                   |                     |                         |                          |
| <b>Tested Date</b>                                                  | Mar. 04 ~ Mar. 26, 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             | 101499              | Jan. 09, 2020           | Jan. 08, 2021            |
| Receiver                                                            | R&S                         | ESR3              | 101657              | Feb. 14, 2020           | Feb. 13, 2021            |
| Bilog Antenna                                                       | SCHWARZBECK                 | VULB9168          | VULB9168-685        | Apr. 17, 2019           | Apr. 16, 2020            |
| Horn Antenna 1G-18G                                                 | SCHWARZBECK                 | BBHA 9120 D       | BBHA 9120 D 1206    | Dec. 27, 2019           | Dec. 26, 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          | 980187              | Aug. 14, 2019           | Aug. 13, 2020            |
| Preamplifier                                                        | Agilent                     | 83017A            | MY53270014          | Aug. 07, 2019           | Aug. 06, 2020            |
| Preamplifier                                                        | EMC                         | EMC184045B        | 980192              | Aug. 01, 2019           | Jul. 31, 2020            |
| RF cable-3M                                                         | HUBER+SUHNER                | SUCOFLEX104       | MY22620/4           | Sep. 27, 2019           | Sep. 26, 2020            |
| RF cable-8M                                                         | EMC                         | EMC104-SM-SM-8000 | 181107              | Sep. 27, 2019           | Sep. 26, 2020            |
| RF cable-1M                                                         | HUBER+SUHNER                | SUCOFLEX104       | MY22624/4           | Sep. 27, 2019           | Sep. 26, 2020            |
| LF cable-0.8M                                                       | EMC                         | EMC8D-NM-NM-800   | EMC8D-NM-NM-800-001 | Sep. 27, 2019           | Sep. 26, 2020            |
| LF cable-3M                                                         | EMC                         | EMC8D-NM-NM-3000  | 131103              | Sep. 27, 2019           | Sep. 26, 2020            |
| LF cable-13M                                                        | EMC                         | EMC8D-NM-NM-13000 | 131104              | Sep. 27, 2019           | Sep. 26, 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>                                                  | Apr. 01 ~ Apr. 08, 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. 17, 2019           | Apr. 16, 2020            |
| Power Meter                                                         | Anritsu                 | ML2495A          | 1241002           | Oct. 23, 2019           | Oct. 22, 2020            |
| Power Sensor                                                        | Anritsu                 | MA2411B          | 1207366           | Oct. 23, 2019           | Oct. 22, 2020            |
| TEMP&HUMIDITY CHAMBER                                               | GIANT FORCE             | GCT-225-40-SP-SD | MAF1212-002       | Dec. 12, 2019           | Dec. 11, 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 Testing Applied Standards

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

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

## 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         |
| Frequency error                | $\pm 1 \times 10^{-9}$ |
| Power density                  | $\pm 0.583$ dB         |
| Conducted emission             | $\pm 2.715$ dB         |
| AC conducted emission          | $\pm 2.92$ dB          |
| Radiated emission $\leq 1$ GHz | $\pm 3.96$ dB          |
| Radiated emission $> 1$ GHz    | $\pm 4.51$ dB          |
| Time                           | $\pm 0.1\%$            |
| Temperature                    | $\pm 0.4$ °C           |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item          | Test Site | Ambient Condition | Tested By           |
|--------------------|-----------|-------------------|---------------------|
| AC Conduction      | CO01-WS   | 24°C / 68%        | Alex Tsai           |
| Radiated Emissions | 03CH03-WS | 20-22°C / 63-67%  | Brad Wu<br>Roger Lu |
| RF Conducted       | TH01-WS   | 21°C / 64%        | Aska Huang          |

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732



## 2.2 The Worst Test Modes and Channel Details

### Non-beamforming mode

| For Frequency band 5150-5250 MHz                                                                                                                                                                                                                                                                                                                                                            |                                |                                                                 |                                   |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------|-----------------------------------|--------------------|
| Test item                                                                                                                                                                                                                                                                                                                                                                                   | Modulation Mode                | Test Frequency (MHz)                                            | Data Rate (Mbps) / MCS            | Test Configuration |
| Conducted Emissions                                                                                                                                                                                                                                                                                                                                                                         | VHT20                          | 5240                                                            | MCS 0                             | 1, 2               |
| Radiated Emissions ≤1GHz                                                                                                                                                                                                                                                                                                                                                                    | VHT20                          | 5240                                                            | MCS 0                             | 1, 2               |
| RF Output Power<br>Peak Power Spectral Density                                                                                                                                                                                                                                                                                                                                              | 11a<br>VHT20<br>VHT40<br>VHT80 | 5180 / 5200 / 5240<br>5180 / 5200 / 5240<br>5190 / 5230<br>5210 | 6 Mbps<br>MCS 0<br>MCS 0<br>MCS 0 | 1, 2               |
| Emission Bandwidth<br>Radiated Emissions >1GHz                                                                                                                                                                                                                                                                                                                                              | 11a<br>VHT20<br>VHT40<br>VHT80 | 5180 / 5200 / 5240<br>5180 / 5200 / 5240<br>5190 / 5230<br>5210 | 6 Mbps<br>MCS 0<br>MCS 0<br>MCS 0 | 1                  |
| Frequency Stability                                                                                                                                                                                                                                                                                                                                                                         | Un-modulation                  | 5200                                                            | ---                               | 1                  |
| <b>NOTE:</b><br>1. The adapter have two configurations (with Y capacitor / without Y capacitor) had been covered during the pretest, and found that without Y was the worst case and was selected for final test.<br>2. The EUT had been tested by following test configurations.<br>Configuration 1 , Model name: IP3421M for indoor AP<br>Configuration 2 , Model name: RP362M for Client |                                |                                                                 |                                   |                    |

| For Frequency band 5725-5850 MHz                                                                                                                                                                                                                                                                                                                                                            |                                |                                                                 |                                   |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------|-----------------------------------|--------------------|
| Test item                                                                                                                                                                                                                                                                                                                                                                                   | Modulation Mode                | Test Frequency (MHz)                                            | Data Rate (Mbps) / MCS            | Test Configuration |
| Conducted Emissions                                                                                                                                                                                                                                                                                                                                                                         | VHT40                          | 5795                                                            | MCS 0                             | 1, 2               |
| Radiated Emissions ≤1GHz                                                                                                                                                                                                                                                                                                                                                                    | VHT40                          | 5795                                                            | MCS 0                             | 1, 2               |
| RF Output Power<br>Peak Power Spectral Density                                                                                                                                                                                                                                                                                                                                              | 11a<br>VHT20<br>VHT40<br>VHT80 | 5745 / 5785 / 5825<br>5745 / 5785 / 5825<br>5755 / 5795<br>5775 | 6 Mbps<br>MCS 0<br>MCS 0<br>MCS 0 | 1, 2               |
| Emission Bandwidth<br>6dB bandwidth<br>Radiated Emissions >1GHz                                                                                                                                                                                                                                                                                                                             | 11a<br>VHT20<br>VHT40<br>VHT80 | 5745 / 5785 / 5825<br>5745 / 5785 / 5825<br>5755 / 5795<br>5775 | 6 Mbps<br>MCS 0<br>MCS 0<br>MCS 0 | 1                  |
| Frequency Stability                                                                                                                                                                                                                                                                                                                                                                         | Un-modulation                  | 5785                                                            | ---                               | 1                  |
| <b>NOTE:</b><br>1. The adapter have two configurations (with Y capacitor / without Y capacitor) had been covered during the pretest, and found that without Y was the worst case and was selected for final test.<br>2. The EUT had been tested by following test configurations.<br>Configuration 1 , Model name: IP3421M for indoor AP<br>Configuration 2 , Model name: RP362M for Client |                                |                                                                 |                                   |                    |

### Beamforming mode

| For Frequency band 5150-5250 MHz                                                                                                                                                                                                                                                                                                                                                            |                         |                                           |                         |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------|-------------------------|--------------------|
| Test item                                                                                                                                                                                                                                                                                                                                                                                   | Modulation Mode         | Test Frequency (MHz)                      | Data Rate (Mbps) / MCS  | Test Configuration |
| Conducted Emissions                                                                                                                                                                                                                                                                                                                                                                         | VHT20                   | 5240                                      | MCS 0                   | 1, 2               |
| Radiated Emissions $\leq 1$ GHz                                                                                                                                                                                                                                                                                                                                                             | VHT20                   | 5240                                      | MCS 0                   | 1, 2               |
| RF Output Power<br>Peak Power Spectral Density                                                                                                                                                                                                                                                                                                                                              | VHT20<br>VHT40<br>VHT80 | 5180 / 5200 / 5240<br>5190 / 5230<br>5210 | MCS 0<br>MCS 0<br>MCS 0 | 1, 2               |
| Emission Bandwidth<br>Radiated Emissions $> 1$ GHz                                                                                                                                                                                                                                                                                                                                          | VHT20<br>VHT40<br>VHT80 | 5180 / 5200 / 5240<br>5190 / 5230<br>5210 | MCS 0<br>MCS 0<br>MCS 0 | 1                  |
| <b>NOTE:</b><br>1. The adapter have two configurations (with Y capacitor / without Y capacitor) had been covered during the pretest, and found that without Y was the worst case and was selected for final test.<br>2. The EUT had been tested by following test configurations.<br>Configuration 1 , Model name: IP3421M for indoor AP<br>Configuration 2 , Model name: RP362M for Client |                         |                                           |                         |                    |

| For Frequency band 5725-5850 MHz                                                                                                                                                                                                                                                                                                                                                            |                         |                                           |                         |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------|-------------------------|--------------------|
| Test item                                                                                                                                                                                                                                                                                                                                                                                   | Modulation Mode         | Test Frequency (MHz)                      | Data Rate (Mbps) / MCS  | Test Configuration |
| Conducted Emissions                                                                                                                                                                                                                                                                                                                                                                         | VHT40                   | 5795                                      | MCS 0                   | 1, 2               |
| Radiated Emissions $\leq 1$ GHz                                                                                                                                                                                                                                                                                                                                                             | VHT40                   | 5795                                      | MCS 0                   | 1, 2               |
| RF Output Power<br>Peak Power Spectral Density                                                                                                                                                                                                                                                                                                                                              | VHT20<br>VHT40<br>VHT80 | 5745 / 5785 / 5825<br>5755 / 5795<br>5775 | MCS 0<br>MCS 0<br>MCS 0 | 1                  |
| Emission Bandwidth<br>6dB bandwidth<br>Radiated Emissions $> 1$ GHz                                                                                                                                                                                                                                                                                                                         | VHT20<br>VHT40<br>VHT80 | 5745 / 5785 / 5825<br>5755 / 5795<br>5775 | MCS 0<br>MCS 0<br>MCS 0 | 1                  |
| <b>NOTE:</b><br>1. The adapter have two configurations (with Y capacitor / without Y capacitor) had been covered during the pretest, and found that without Y was the worst case and was selected for final test.<br>2. The EUT had been tested by following test configurations.<br>Configuration 1 , Model name: IP3421M for indoor AP<br>Configuration 2 , Model name: RP362M for Client |                         |                                           |                         |                    |

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

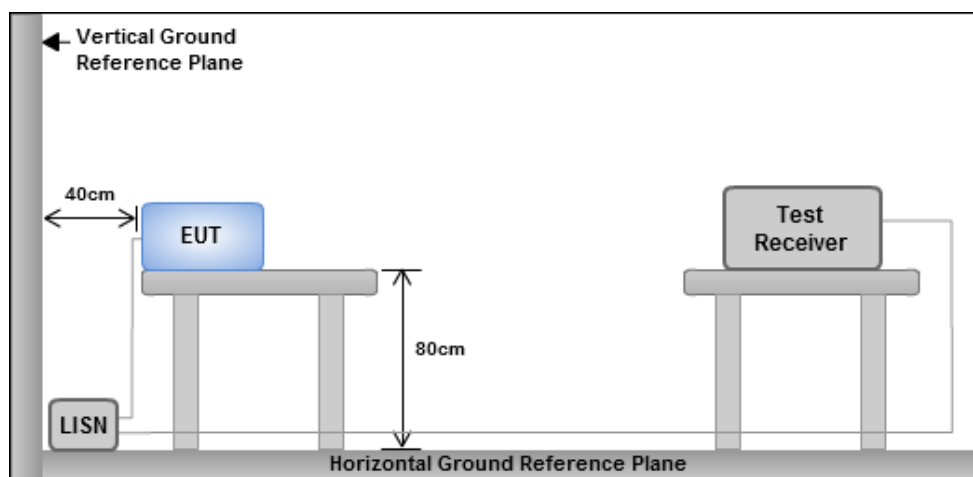
| Conducted Emissions Limit |            |           |
|---------------------------|------------|-----------|
| Frequency Emission (MHz)  | Quasi-Peak | Average   |
| 0.15-0.5                  | 66 - 56 *  | 56 - 46 * |
| 0.5-5                     | 56         | 46        |
| 5-30                   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

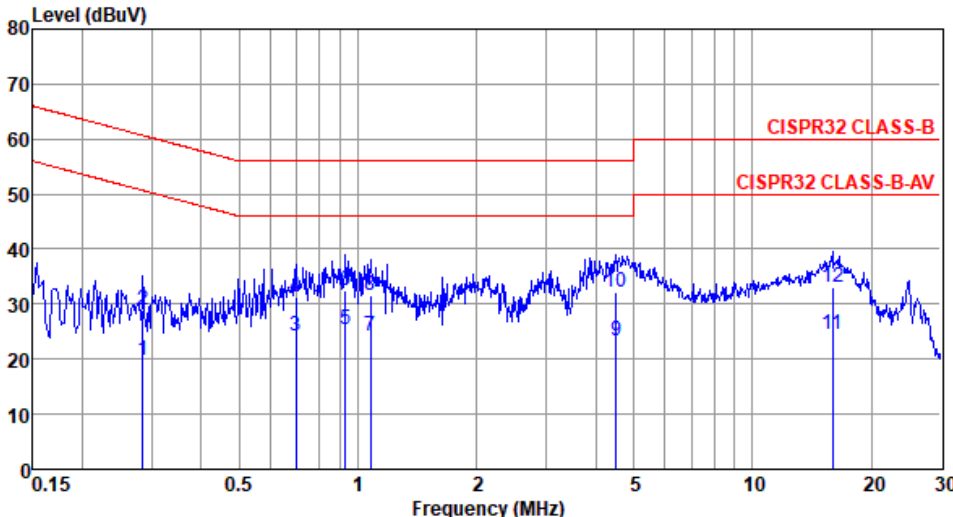


- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

#### Non-beamforming mode

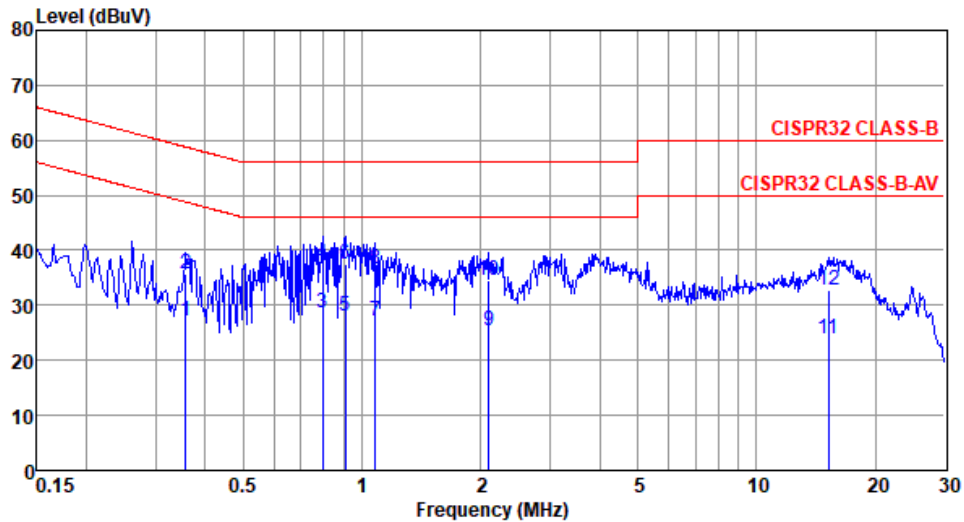
|             |       |                    |      |
|-------------|-------|--------------------|------|
| Modulation  | VHT20 | Test Freq. (MHz)   | 5240 |
| Power Phase | Line  | Test Configuration | 1    |

|    | 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  | 0.285       | 19.68         | 50.68                 | -31.00              | 9.76                  | 9.63                 | 0.07                | Average |
| 2  | 0.285       | 28.94         | 60.68                 | -31.74              | 19.02                 | 9.63                 | 0.07                | QP      |
| 3  | 0.697       | 24.28         | 46.00                 | -21.72              | 14.26                 | 9.63                 | 0.10                | Average |
| 4  | 0.697       | 31.36         | 56.00                 | -24.64              | 21.34                 | 9.63                 | 0.10                | QP      |
| 5* | 0.928       | 25.45         | 46.00                 | -20.55              | 15.39                 | 9.63                 | 0.12                | Average |
| 6  | 0.928       | 32.54         | 56.00                 | -23.46              | 22.48                 | 9.63                 | 0.12                | QP      |
| 7  | 1.077       | 24.33         | 46.00                 | -21.67              | 14.25                 | 9.63                 | 0.13                | Average |
| 8  | 1.077       | 31.73         | 56.00                 | -24.27              | 21.65                 | 9.63                 | 0.13                | QP      |
| 9  | 4.501       | 23.33         | 46.00                 | -22.67              | 13.00                 | 9.66                 | 0.30                | Average |
| 10 | 4.501       | 32.21         | 56.00                 | -23.79              | 21.88                 | 9.66                 | 0.30                | QP      |
| 11 | 15.970      | 24.44         | 50.00                 | -25.56              | 13.61                 | 9.71                 | 0.61                | Average |
| 12 | 15.970      | 32.96         | 60.00                 | -27.04              | 22.13                 | 9.71                 | 0.61                | QP      |

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).  
 Note 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

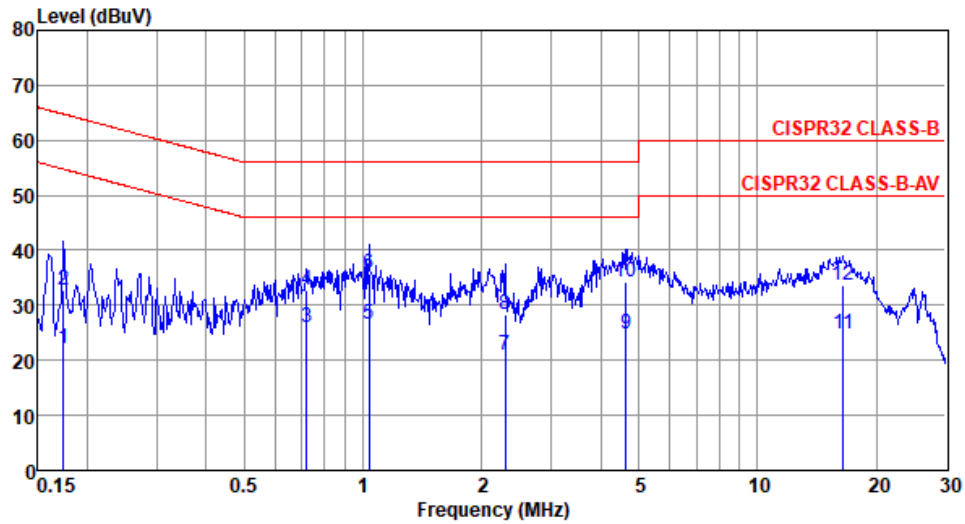
|             |         |                    |      |
|-------------|---------|--------------------|------|
| Modulation  | VHT20   | Test Freq. (MHz)   | 5240 |
| Power Phase | Neutral | Test Configuration | 1    |



|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable | Remark  |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  |         |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.358  | 27.24 | 48.78 | -21.54 | 17.34 | 9.65   | 0.08  | Average |
| 2  | 0.358  | 35.62 | 58.78 | -23.16 | 25.72 | 9.65   | 0.08  | QP      |
| 3* | 0.796  | 28.76 | 46.00 | -17.24 | 18.81 | 9.65   | 0.11  | Average |
| 4  | 0.796  | 37.58 | 56.00 | -18.42 | 27.63 | 9.65   | 0.11  | QP      |
| 5  | 0.909  | 28.00 | 46.00 | -18.00 | 18.03 | 9.65   | 0.12  | Average |
| 6  | 0.909  | 37.34 | 56.00 | -18.66 | 27.37 | 9.65   | 0.12  | QP      |
| 7  | 1.082  | 27.11 | 46.00 | -18.89 | 17.12 | 9.65   | 0.13  | Average |
| 8  | 1.082  | 36.54 | 56.00 | -19.46 | 26.55 | 9.65   | 0.13  | QP      |
| 9  | 2.099  | 25.31 | 46.00 | -20.69 | 15.20 | 9.66   | 0.19  | Average |
| 10 | 2.099  | 34.40 | 56.00 | -21.60 | 24.29 | 9.66   | 0.19  | QP      |
| 11 | 15.226 | 23.78 | 50.00 | -26.22 | 13.00 | 9.80   | 0.60  | Average |
| 12 | 15.226 | 32.82 | 60.00 | -27.18 | 22.04 | 9.80   | 0.60  | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

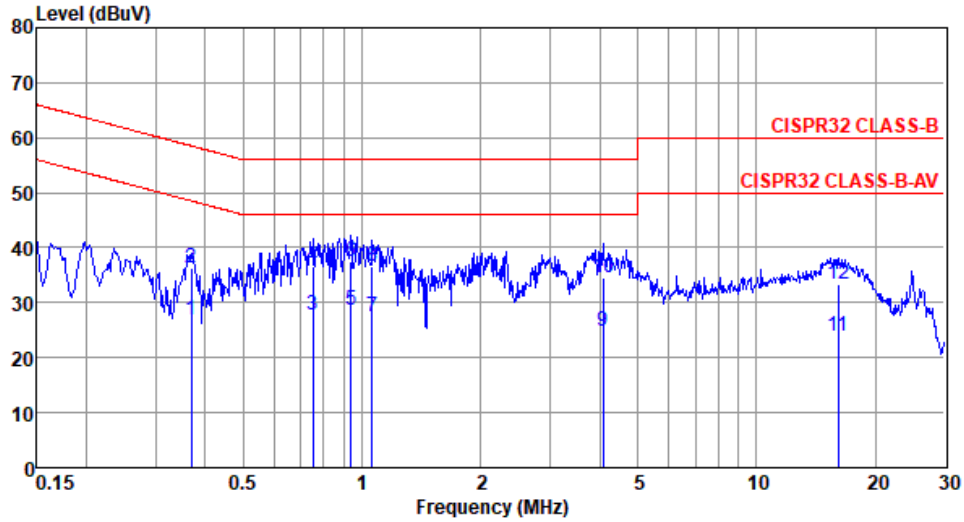
|             |       |                    |      |
|-------------|-------|--------------------|------|
| Modulation  | VHT40 | Test Freq. (MHz)   | 5795 |
| Power Phase | Line  | Test Configuration | 1    |



|    | 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  | 0.174       | 22.01         | 54.77                 | -32.76              | 12.14                 | 9.63                 | 0.06                | Average |
| 2  | 0.174       | 32.86         | 64.77                 | -31.91              | 22.99                 | 9.63                 | 0.06                | QP      |
| 3  | 0.720       | 25.90         | 46.00                 | -20.10              | 15.87                 | 9.63                 | 0.11                | Average |
| 4  | 0.720       | 32.90         | 56.00                 | -23.10              | 22.87                 | 9.63                 | 0.11                | QP      |
| 5* | 1.037       | 26.52         | 46.00                 | -19.48              | 16.45                 | 9.63                 | 0.12                | Average |
| 6  | 1.037       | 35.85         | 56.00                 | -20.15              | 25.78                 | 9.63                 | 0.12                | QP      |
| 7  | 2.297       | 21.09         | 46.00                 | -24.91              | 10.90                 | 9.64                 | 0.20                | Average |
| 8  | 2.297       | 28.29         | 56.00                 | -27.71              | 18.10                 | 9.64                 | 0.20                | QP      |
| 9  | 4.647       | 24.79         | 46.00                 | -21.21              | 14.45                 | 9.66                 | 0.31                | Average |
| 10 | 4.647       | 34.18         | 56.00                 | -21.82              | 23.84                 | 9.66                 | 0.31                | QP      |
| 11 | 16.486      | 24.77         | 50.00                 | -25.23              | 13.92                 | 9.71                 | 0.62                | Average |
| 12 | 16.486      | 33.55         | 60.00                 | -26.45              | 22.70                 | 9.71                 | 0.62                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

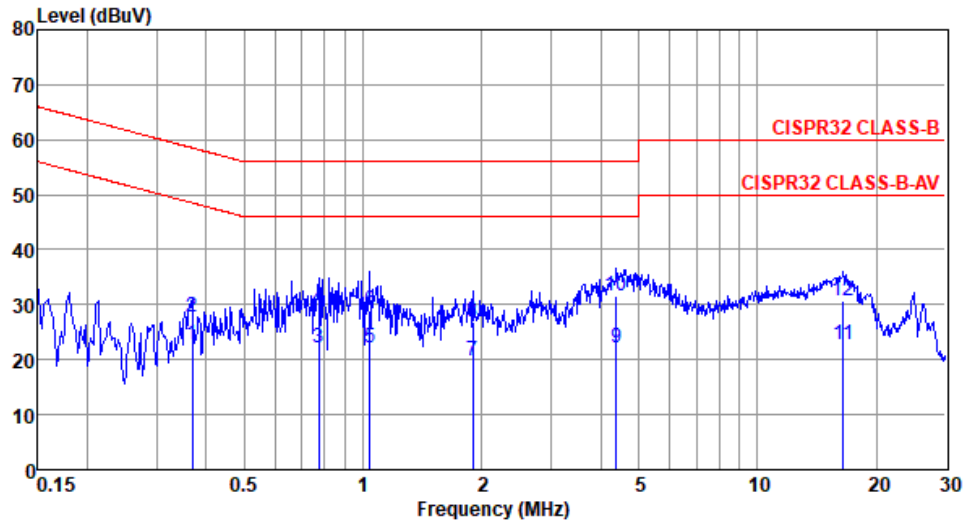
|             |         |                    |      |
|-------------|---------|--------------------|------|
| Modulation  | VHT40   | Test Freq. (MHz)   | 5795 |
| Power Phase | Neutral | Test Configuration | 1    |



|    | Freq   | Level | Limit        | Over        | Read          | LISN         | cable      | Remark  |
|----|--------|-------|--------------|-------------|---------------|--------------|------------|---------|
|    | MHz    | dBuV  | Line<br>dBuV | Limit<br>dB | Level<br>dBuV | factor<br>dB | loss<br>dB |         |
| 1  | 0.369  | 26.82 | 48.52        | -21.70      | 16.92         | 9.65         | 0.08       | Average |
| 2  | 0.369  | 36.22 | 58.52        | -22.30      | 26.32         | 9.65         | 0.08       | QP      |
| 3  | 0.751  | 27.69 | 46.00        | -18.31      | 17.74         | 9.65         | 0.11       | Average |
| 4  | 0.751  | 36.54 | 56.00        | -19.46      | 26.59         | 9.65         | 0.11       | QP      |
| 5* | 0.938  | 28.61 | 46.00        | -17.39      | 18.64         | 9.65         | 0.12       | Average |
| 6  | 0.938  | 37.54 | 56.00        | -18.46      | 27.57         | 9.65         | 0.12       | QP      |
| 7  | 1.060  | 27.47 | 46.00        | -18.53      | 17.50         | 9.65         | 0.12       | Average |
| 8  | 1.060  | 36.64 | 56.00        | -19.36      | 26.67         | 9.65         | 0.12       | QP      |
| 9  | 4.092  | 24.94 | 46.00        | -21.06      | 14.72         | 9.67         | 0.29       | Average |
| 10 | 4.092  | 34.40 | 56.00        | -21.60      | 24.18         | 9.67         | 0.29       | QP      |
| 11 | 16.140 | 23.95 | 50.00        | -26.05      | 13.11         | 9.81         | 0.62       | Average |
| 12 | 16.140 | 33.23 | 60.00        | -26.77      | 22.39         | 9.81         | 0.62       | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|             |       |                    |      |
|-------------|-------|--------------------|------|
| Modulation  | VHT20 | Test Freq. (MHz)   | 5240 |
| Power Phase | Line  | Test Configuration | 2    |

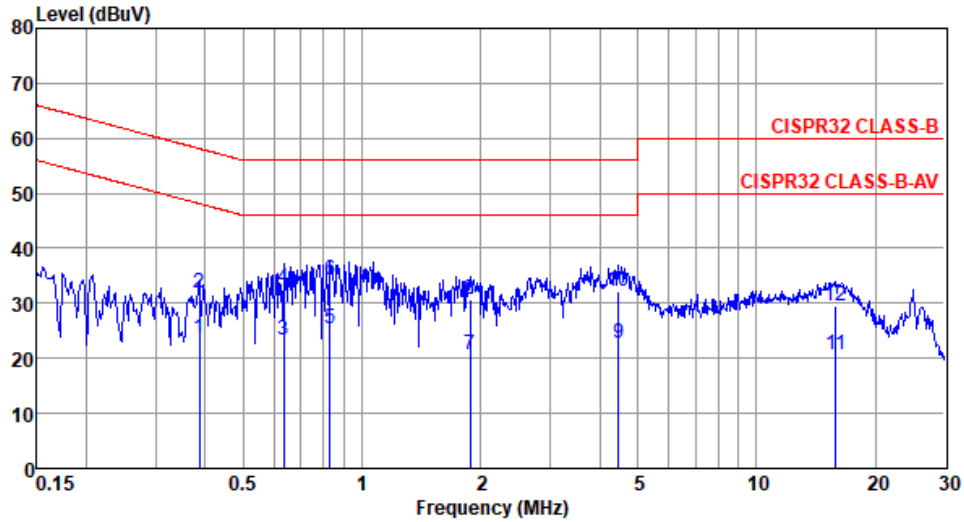


|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable | Remark  |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  |         |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.369  | 22.70 | 48.52 | -25.82 | 12.75 | 9.63   | 0.08  | Average |
| 2  | 0.369  | 27.61 | 58.52 | -30.91 | 17.66 | 9.63   | 0.08  | QP      |
| 3  | 0.771  | 22.15 | 46.00 | -23.85 | 12.11 | 9.63   | 0.11  | Average |
| 4  | 0.771  | 29.17 | 56.00 | -26.83 | 19.13 | 9.63   | 0.11  | QP      |
| 5  | 1.043  | 22.12 | 46.00 | -23.88 | 12.05 | 9.63   | 0.12  | Average |
| 6  | 1.043  | 28.97 | 56.00 | -27.03 | 18.90 | 9.63   | 0.12  | QP      |
| 7  | 1.898  | 19.80 | 46.00 | -26.20 | 9.64  | 9.64   | 0.18  | Average |
| 8  | 1.898  | 26.89 | 56.00 | -29.11 | 16.73 | 9.64   | 0.18  | QP      |
| 9* | 4.384  | 22.19 | 46.00 | -23.81 | 11.87 | 9.65   | 0.30  | Average |
| 10 | 4.384  | 31.53 | 56.00 | -24.47 | 21.21 | 9.65   | 0.30  | QP      |
| 11 | 16.486 | 22.64 | 50.00 | -27.36 | 11.79 | 9.71   | 0.62  | Average |
| 12 | 16.486 | 30.61 | 60.00 | -29.39 | 19.76 | 9.71   | 0.62  | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).



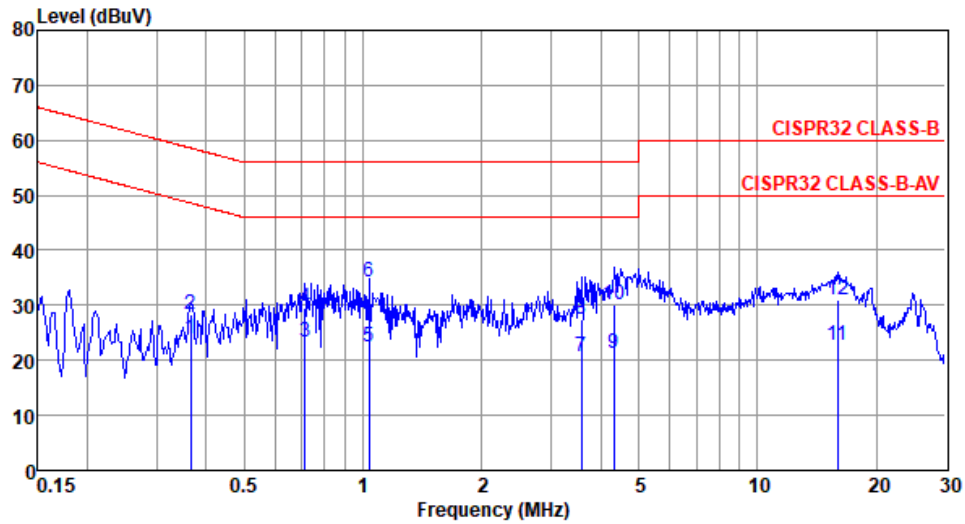
|             |         |                    |      |
|-------------|---------|--------------------|------|
| Modulation  | VHT20   | Test Freq. (MHz)   | 5240 |
| Power Phase | Neutral | Test Configuration | 2    |



|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable |         |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  | Remark  |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.387  | 23.73 | 48.12 | -24.39 | 13.83 | 9.65   | 0.08  | Average |
| 2  | 0.387  | 31.95 | 58.12 | -26.17 | 22.05 | 9.65   | 0.08  | QP      |
| 3  | 0.634  | 23.19 | 46.00 | -22.81 | 13.25 | 9.65   | 0.10  | Average |
| 4  | 0.634  | 32.67 | 56.00 | -23.33 | 22.73 | 9.65   | 0.10  | QP      |
| 5* | 0.830  | 25.45 | 46.00 | -20.55 | 15.50 | 9.65   | 0.11  | Average |
| 6  | 0.830  | 34.25 | 56.00 | -21.75 | 24.30 | 9.65   | 0.11  | QP      |
| 7  | 1.878  | 20.75 | 46.00 | -25.25 | 10.67 | 9.66   | 0.17  | Average |
| 8  | 1.878  | 30.69 | 56.00 | -25.31 | 20.61 | 9.66   | 0.17  | QP      |
| 9  | 4.478  | 22.66 | 46.00 | -23.34 | 12.41 | 9.68   | 0.30  | Average |
| 10 | 4.478  | 32.11 | 56.00 | -23.89 | 21.86 | 9.68   | 0.30  | QP      |
| 11 | 15.885 | 20.58 | 50.00 | -29.42 | 9.77  | 9.80   | 0.61  | Average |
| 12 | 15.885 | 29.37 | 60.00 | -30.63 | 18.56 | 9.80   | 0.61  | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

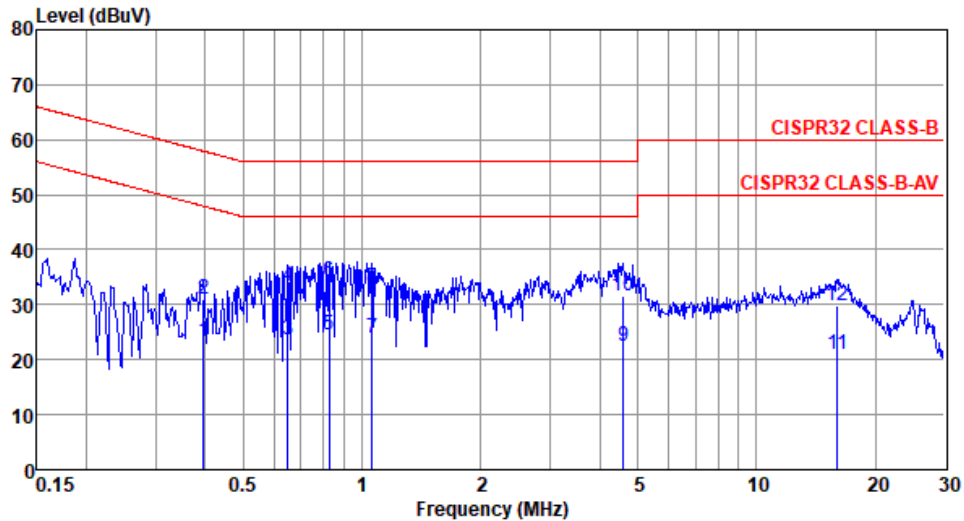
|             |       |                    |      |
|-------------|-------|--------------------|------|
| Modulation  | VHT40 | Test Freq. (MHz)   | 5795 |
| Power Phase | Line  | Test Configuration | 2    |



|    | 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  | 0.365       | 23.80         | 48.61                 | -24.81              | 13.85                 | 9.63                 | 0.08                | Average |
| 2  | 0.365       | 28.20         | 58.61                 | -30.41              | 18.25                 | 9.63                 | 0.08                | QP      |
| 3  | 0.712       | 23.27         | 46.00                 | -22.73              | 13.24                 | 9.63                 | 0.11                | Average |
| 4  | 0.712       | 29.48         | 56.00                 | -26.52              | 19.45                 | 9.63                 | 0.11                | QP      |
| 5  | 1.037       | 22.38         | 46.00                 | -23.62              | 12.31                 | 9.63                 | 0.12                | Average |
| 6* | 1.037       | 34.11         | 56.00                 | -21.89              | 24.04                 | 9.63                 | 0.12                | QP      |
| 7  | 3.584       | 20.63         | 46.00                 | -25.37              | 10.34                 | 9.65                 | 0.27                | Average |
| 8  | 3.584       | 27.55         | 56.00                 | -28.45              | 17.26                 | 9.65                 | 0.27                | QP      |
| 9  | 4.315       | 21.34         | 46.00                 | -24.66              | 11.02                 | 9.65                 | 0.30                | Average |
| 10 | 4.315       | 30.07         | 56.00                 | -25.93              | 19.75                 | 9.65                 | 0.30                | QP      |
| 11 | 15.970      | 22.75         | 50.00                 | -27.25              | 11.92                 | 9.71                 | 0.61                | Average |
| 12 | 15.970      | 30.92         | 60.00                 | -29.08              | 20.09                 | 9.71                 | 0.61                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|             |         |                    |      |
|-------------|---------|--------------------|------|
| Modulation  | VHT40   | Test Freq. (MHz)   | 5795 |
| Power Phase | Neutral | Test Configuration | 2    |

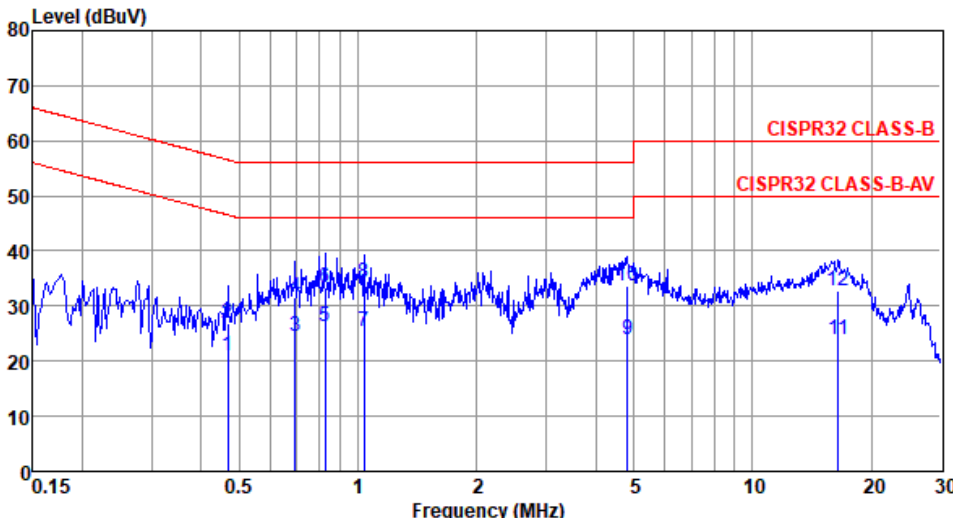


|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable |         |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  | Remark  |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.396  | 23.37 | 47.95 | -24.58 | 13.47 | 9.65   | 0.08  | Average |
| 2  | 0.396  | 30.88 | 57.95 | -27.07 | 20.98 | 9.65   | 0.08  | QP      |
| 3  | 0.647  | 23.68 | 46.00 | -22.32 | 13.74 | 9.65   | 0.10  | Average |
| 4  | 0.647  | 33.26 | 56.00 | -22.74 | 23.32 | 9.65   | 0.10  | QP      |
| 5* | 0.826  | 24.62 | 46.00 | -21.38 | 14.67 | 9.65   | 0.11  | Average |
| 6  | 0.826  | 34.22 | 56.00 | -21.78 | 24.27 | 9.65   | 0.11  | QP      |
| 7  | 1.060  | 23.95 | 46.00 | -22.05 | 13.98 | 9.65   | 0.12  | Average |
| 8  | 1.060  | 32.95 | 56.00 | -23.05 | 22.98 | 9.65   | 0.12  | QP      |
| 9  | 4.598  | 22.51 | 46.00 | -23.49 | 12.25 | 9.68   | 0.31  | Average |
| 10 | 4.598  | 31.65 | 56.00 | -24.35 | 21.39 | 9.68   | 0.31  | QP      |
| 11 | 16.055 | 20.84 | 50.00 | -29.16 | 10.01 | 9.81   | 0.61  | Average |
| 12 | 16.055 | 29.83 | 60.00 | -30.17 | 19.00 | 9.81   | 0.61  | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

### Beamforming mode

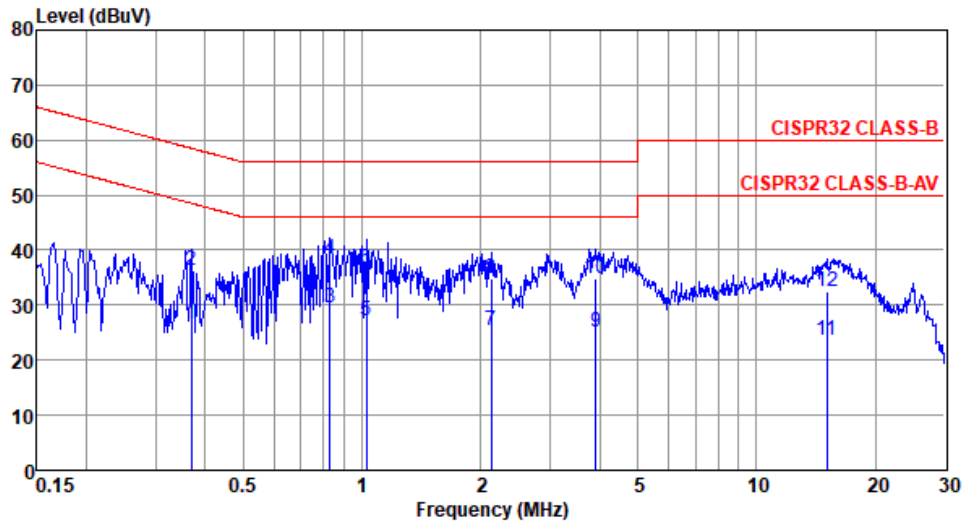
|             |       |                    |      |
|-------------|-------|--------------------|------|
| Modulation  | VHT20 | Test Freq. (MHz)   | 5240 |
| Power Phase | Line  | Test Configuration | 1    |

|    | 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  | 0.469       | 20.94         | 46.54                 | -25.60              | 10.96                 | 9.63                 | 0.09                | Average |
| 2  | 0.469       | 26.87         | 56.54                 | -29.67              | 16.89                 | 9.63                 | 0.09                | QP      |
| 3  | 0.694       | 24.64         | 46.00                 | -21.36              | 14.62                 | 9.63                 | 0.10                | Average |
| 4  | 0.694       | 31.71         | 56.00                 | -24.29              | 21.69                 | 9.63                 | 0.10                | QP      |
| 5* | 0.826       | 26.13         | 46.00                 | -19.87              | 16.08                 | 9.63                 | 0.11                | Average |
| 6  | 0.826       | 33.33         | 56.00                 | -22.67              | 23.28                 | 9.63                 | 0.11                | QP      |
| 7  | 1.037       | 25.53         | 46.00                 | -20.47              | 15.46                 | 9.63                 | 0.12                | Average |
| 8  | 1.037       | 34.20         | 56.00                 | -21.80              | 24.13                 | 9.63                 | 0.12                | QP      |
| 9  | 4.822       | 24.00         | 46.00                 | -22.00              | 13.65                 | 9.66                 | 0.31                | Average |
| 10 | 4.822       | 33.60         | 56.00                 | -22.40              | 23.25                 | 9.66                 | 0.31                | QP      |
| 11 | 16.486      | 23.90         | 50.00                 | -26.10              | 13.05                 | 9.71                 | 0.62                | Average |
| 12 | 16.486      | 32.63         | 60.00                 | -27.37              | 21.78                 | 9.71                 | 0.62                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

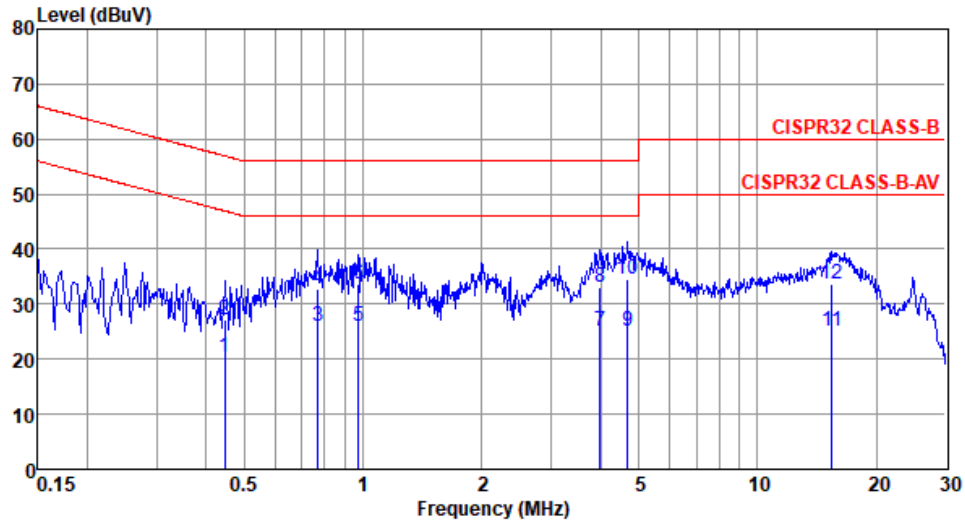
|             |         |                    |      |
|-------------|---------|--------------------|------|
| Modulation  | VHT20   | Test Freq. (MHz)   | 5240 |
| Power Phase | Neutral | Test Configuration | 1    |



|    | 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  | 0.369       | 26.65         | 48.52                 | -21.87              | 16.75                 | 9.65                 | 0.08                | Average |
| 2  | 0.369       | 36.17         | 58.52                 | -22.35              | 26.27                 | 9.65                 | 0.08                | QP      |
| 3* | 0.830       | 29.60         | 46.00                 | -16.40              | 19.65                 | 9.65                 | 0.11                | Average |
| 4  | 0.830       | 38.28         | 56.00                 | -17.72              | 28.33                 | 9.65                 | 0.11                | QP      |
| 5  | 1.027       | 27.09         | 46.00                 | -18.91              | 17.12                 | 9.65                 | 0.12                | Average |
| 6  | 1.027       | 36.57         | 56.00                 | -19.43              | 26.60                 | 9.65                 | 0.12                | QP      |
| 7  | 2.121       | 25.43         | 46.00                 | -20.57              | 15.32                 | 9.66                 | 0.19                | Average |
| 8  | 2.121       | 34.73         | 56.00                 | -21.27              | 24.62                 | 9.66                 | 0.19                | QP      |
| 9  | 3.922       | 25.21         | 46.00                 | -20.79              | 14.99                 | 9.67                 | 0.29                | Average |
| 10 | 3.922       | 34.74         | 56.00                 | -21.26              | 24.52                 | 9.67                 | 0.29                | QP      |
| 11 | 15.066      | 23.69         | 50.00                 | -26.31              | 12.92                 | 9.80                 | 0.60                | Average |
| 12 | 15.066      | 32.56         | 60.00                 | -27.44              | 21.79                 | 9.80                 | 0.60                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

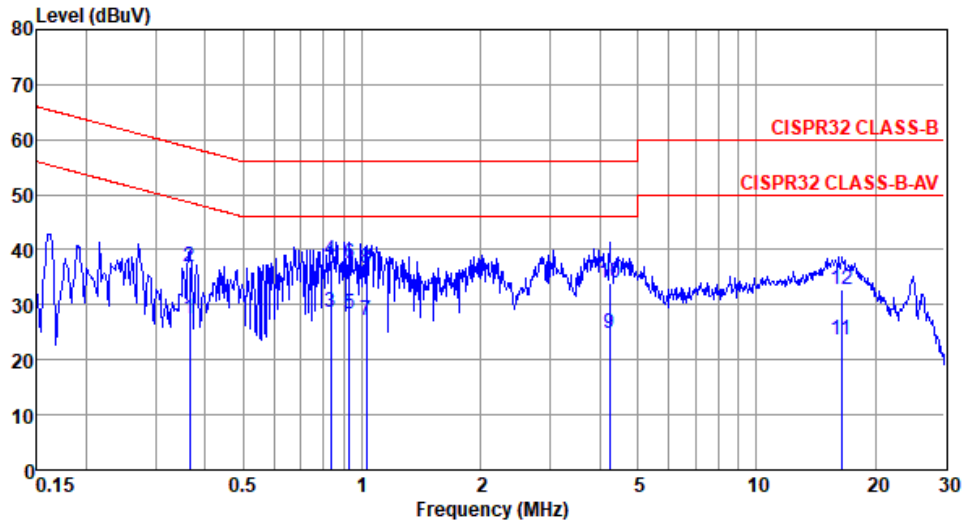
|             |       |                    |      |
|-------------|-------|--------------------|------|
| Modulation  | VHT40 | Test Freq. (MHz)   | 5795 |
| Power Phase | Line  | Test Configuration | 1    |



|    | 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  | 0.447       | 20.28         | 46.93                 | -26.65              | 10.31                 | 9.63                 | 0.08                | Average |
| 2  | 0.447       | 27.17         | 56.93                 | -29.76              | 17.20                 | 9.63                 | 0.08                | QP      |
| 3  | 0.767       | 26.10         | 46.00                 | -19.90              | 16.06                 | 9.63                 | 0.11                | Average |
| 4  | 0.767       | 32.82         | 56.00                 | -23.18              | 22.78                 | 9.63                 | 0.11                | QP      |
| 5* | 0.974       | 26.12         | 46.00                 | -19.88              | 16.05                 | 9.63                 | 0.12                | Average |
| 6  | 0.974       | 33.67         | 56.00                 | -22.33              | 23.60                 | 9.63                 | 0.12                | QP      |
| 7  | 3.985       | 25.08         | 46.00                 | -20.92              | 14.77                 | 9.65                 | 0.29                | Average |
| 8  | 3.985       | 32.94         | 56.00                 | -23.06              | 22.63                 | 9.65                 | 0.29                | QP      |
| 9  | 4.696       | 25.06         | 46.00                 | -20.94              | 14.71                 | 9.66                 | 0.31                | Average |
| 10 | 4.696       | 34.59         | 56.00                 | -21.41              | 24.24                 | 9.66                 | 0.31                | QP      |
| 11 | 15.470      | 25.15         | 50.00                 | -24.85              | 14.33                 | 9.71                 | 0.61                | Average |
| 12 | 15.470      | 33.56         | 60.00                 | -26.44              | 22.74                 | 9.71                 | 0.61                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

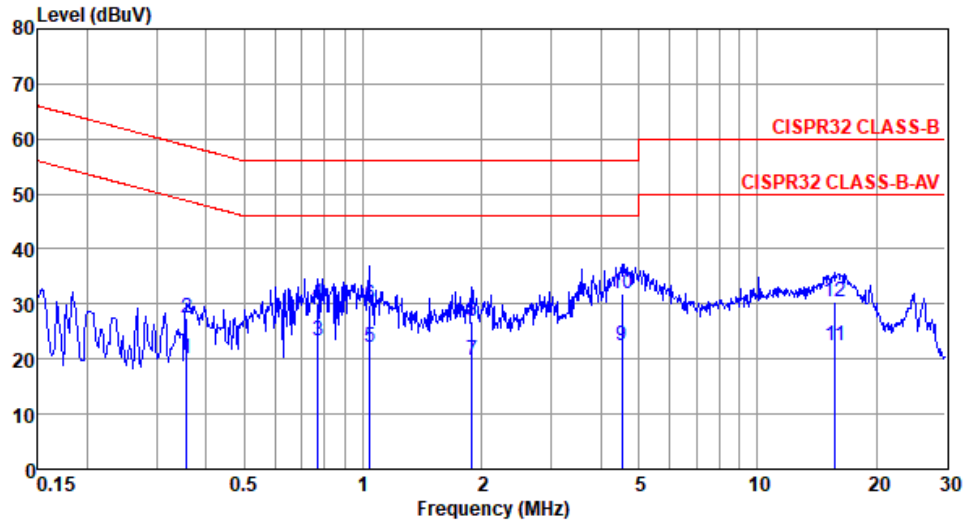
|             |         |                    |      |
|-------------|---------|--------------------|------|
| Modulation  | VHT40   | Test Freq. (MHz)   | 5795 |
| Power Phase | Neutral | Test Configuration | 1    |



|    | 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  | 0.365       | 27.54         | 48.61                 | -21.07              | 17.64                 | 9.65                 | 0.08                | Average |
| 2  | 0.365       | 36.99         | 58.61                 | -21.62              | 27.09                 | 9.65                 | 0.08                | QP      |
| 3* | 0.835       | 28.71         | 46.00                 | -17.29              | 18.76                 | 9.65                 | 0.11                | Average |
| 4  | 0.835       | 37.96         | 56.00                 | -18.04              | 28.01                 | 9.65                 | 0.11                | QP      |
| 5  | 0.928       | 28.39         | 46.00                 | -17.61              | 18.42                 | 9.65                 | 0.12                | Average |
| 6  | 0.928       | 37.43         | 56.00                 | -18.57              | 27.46                 | 9.65                 | 0.12                | QP      |
| 7  | 1.027       | 27.26         | 46.00                 | -18.74              | 17.29                 | 9.65                 | 0.12                | Average |
| 8  | 1.027       | 36.54         | 56.00                 | -19.46              | 26.57                 | 9.65                 | 0.12                | QP      |
| 9  | 4.247       | 24.78         | 46.00                 | -21.22              | 14.55                 | 9.67                 | 0.30                | Average |
| 10 | 4.247       | 33.82         | 56.00                 | -22.18              | 23.59                 | 9.67                 | 0.30                | QP      |
| 11 | 16.398      | 23.63         | 50.00                 | -26.37              | 12.78                 | 9.81                 | 0.62                | Average |
| 12 | 16.398      | 32.89         | 60.00                 | -27.11              | 22.04                 | 9.81                 | 0.62                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|             |       |                    |      |
|-------------|-------|--------------------|------|
| Modulation  | VHT20 | Test Freq. (MHz)   | 5240 |
| Power Phase | Line  | Test Configuration | 2    |

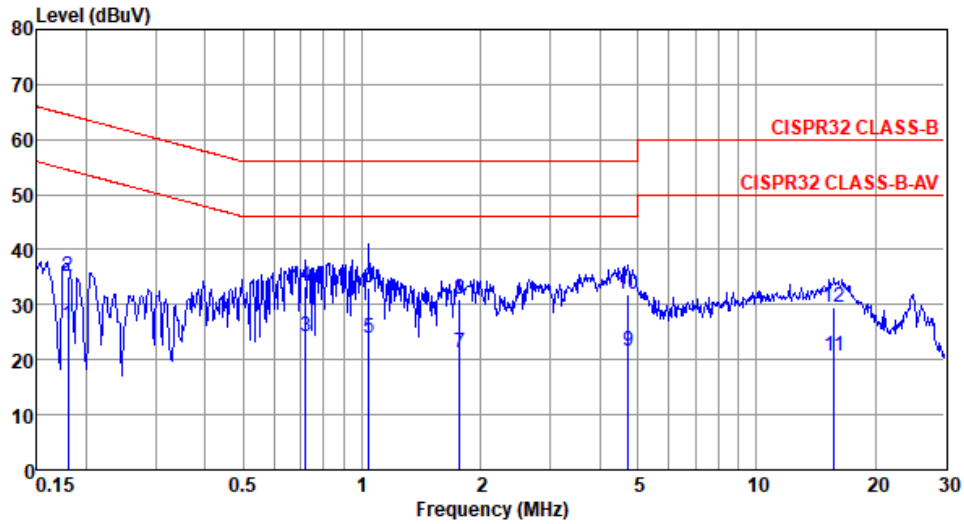


|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.358       | 20.18         | 48.78                 | -28.60              | 10.23                 | 9.63                 | 0.08                | Average |
| 2  | 0.358       | 27.31         | 58.78                 | -31.47              | 17.36                 | 9.63                 | 0.08                | QP      |
| 3* | 0.767       | 23.26         | 46.00                 | -22.74              | 13.22                 | 9.63                 | 0.11                | Average |
| 4  | 0.767       | 30.05         | 56.00                 | -25.95              | 20.01                 | 9.63                 | 0.11                | QP      |
| 5  | 1.043       | 22.20         | 46.00                 | -23.80              | 12.13                 | 9.63                 | 0.12                | Average |
| 6  | 1.043       | 29.82         | 56.00                 | -26.18              | 19.75                 | 9.63                 | 0.12                | QP      |
| 7  | 1.888       | 19.87         | 46.00                 | -26.13              | 9.71                  | 9.64                 | 0.18                | Average |
| 8  | 1.888       | 26.88         | 56.00                 | -29.12              | 16.72                 | 9.64                 | 0.18                | QP      |
| 9  | 4.525       | 22.50         | 46.00                 | -23.50              | 12.17                 | 9.66                 | 0.30                | Average |
| 10 | 4.525       | 31.96         | 56.00                 | -24.04              | 21.63                 | 9.66                 | 0.30                | QP      |
| 11 | 15.718      | 22.32         | 50.00                 | -27.68              | 11.50                 | 9.71                 | 0.61                | Average |
| 12 | 15.718      | 30.52         | 60.00                 | -29.48              | 19.70                 | 9.71                 | 0.61                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).



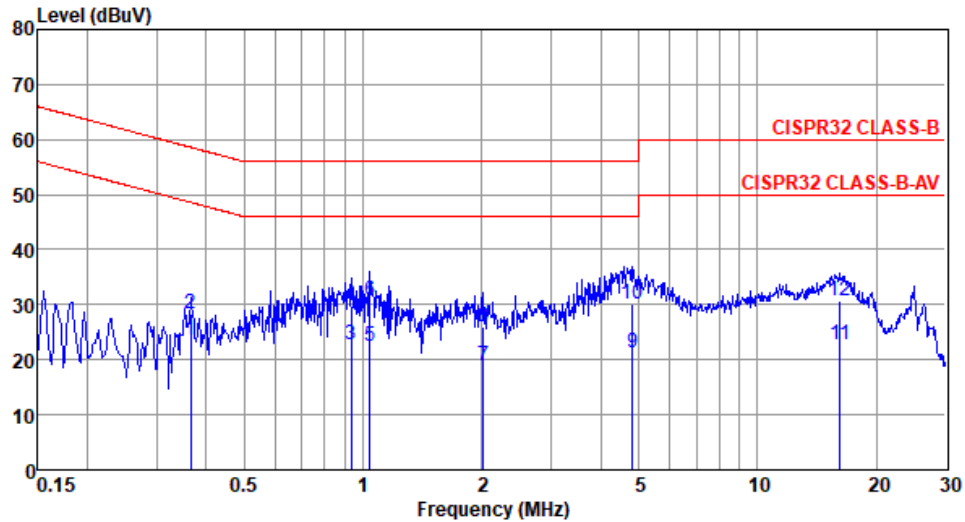
|             |         |                    |      |
|-------------|---------|--------------------|------|
| Modulation  | VHT20   | Test Freq. (MHz)   | 5240 |
| Power Phase | Neutral | Test Configuration | 2    |



|    | 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  | 0.180       | 26.38         | 54.50         | -28.12              | 16.53                 | 9.65                 | 0.06                | Average |
| 2  | 0.180       | 35.04         | 64.50         | -29.46              | 25.19                 | 9.65                 | 0.06                | QP      |
| 3* | 0.720       | 24.26         | 46.00         | -21.74              | 14.31                 | 9.65                 | 0.11                | Average |
| 4  | 0.720       | 33.36         | 56.00         | -22.64              | 23.41                 | 9.65                 | 0.11                | QP      |
| 5  | 1.043       | 23.95         | 46.00         | -22.05              | 13.98                 | 9.65                 | 0.12                | Average |
| 6  | 1.043       | 33.06         | 56.00         | -22.94              | 23.09                 | 9.65                 | 0.12                | QP      |
| 7  | 1.772       | 21.33         | 46.00         | -24.67              | 11.25                 | 9.66                 | 0.17                | Average |
| 8  | 1.772       | 30.87         | 56.00         | -25.13              | 20.79                 | 9.66                 | 0.17                | QP      |
| 9  | 4.721       | 21.66         | 46.00         | -24.34              | 11.40                 | 9.68                 | 0.31                | Average |
| 10 | 4.721       | 31.79         | 56.00         | -24.21              | 21.53                 | 9.68                 | 0.31                | QP      |
| 11 | 15.718      | 20.69         | 50.00         | -29.31              | 9.88                  | 9.80                 | 0.61                | Average |
| 12 | 15.718      | 29.49         | 60.00         | -30.51              | 18.68                 | 9.80                 | 0.61                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

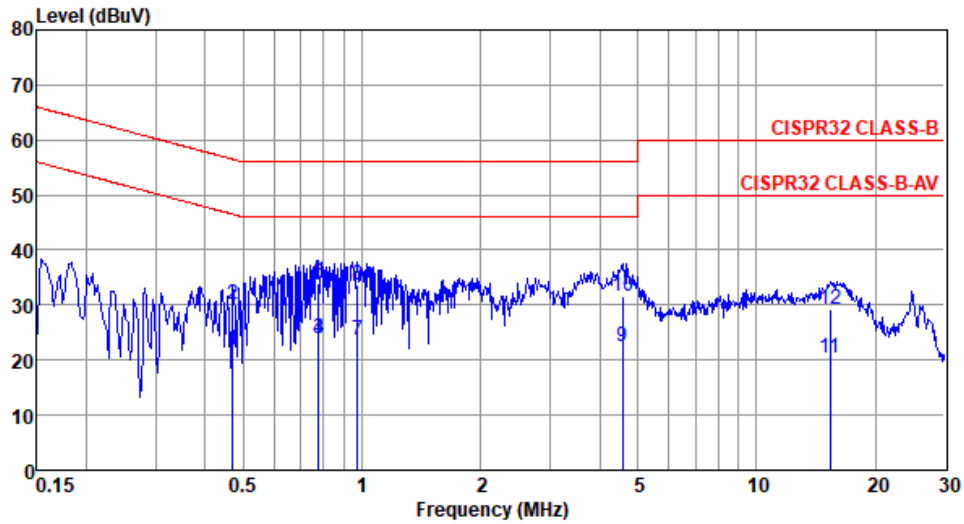
|             |       |                    |      |
|-------------|-------|--------------------|------|
| Modulation  | VHT40 | Test Freq. (MHz)   | 5795 |
| Power Phase | Line  | Test Configuration | 2    |



|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable | Remark  |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  |         |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.365  | 23.74 | 48.61 | -24.87 | 13.79 | 9.63   | 0.08  | Average |
| 2  | 0.365  | 28.47 | 58.61 | -30.14 | 18.52 | 9.63   | 0.08  | QP      |
| 3* | 0.933  | 22.87 | 46.00 | -23.13 | 12.81 | 9.63   | 0.12  | Average |
| 4  | 0.933  | 29.80 | 56.00 | -26.20 | 19.74 | 9.63   | 0.12  | QP      |
| 5  | 1.043  | 22.37 | 46.00 | -23.63 | 12.30 | 9.63   | 0.12  | Average |
| 6  | 1.043  | 30.63 | 56.00 | -25.37 | 20.56 | 9.63   | 0.12  | QP      |
| 7  | 2.023  | 19.04 | 46.00 | -26.96 | 8.88  | 9.64   | 0.18  | Average |
| 8  | 2.023  | 25.85 | 56.00 | -30.15 | 15.69 | 9.64   | 0.18  | QP      |
| 9  | 4.822  | 21.23 | 46.00 | -24.77 | 10.88 | 9.66   | 0.31  | Average |
| 10 | 4.822  | 30.15 | 56.00 | -25.85 | 19.80 | 9.66   | 0.31  | QP      |
| 11 | 16.226 | 22.72 | 50.00 | -27.28 | 11.87 | 9.71   | 0.62  | Average |
| 12 | 16.226 | 30.71 | 60.00 | -29.29 | 19.86 | 9.71   | 0.62  | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|             |         |                    |      |
|-------------|---------|--------------------|------|
| Modulation  | VHT40   | Test Freq. (MHz)   | 5795 |
| Power Phase | Neutral | Test Configuration | 2    |



|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable |         |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  | Remark  |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.471  | 21.85 | 46.49 | -24.64 | 11.93 | 9.65   | 0.09  | Average |
| 2  | 0.471  | 30.16 | 56.49 | -26.33 | 20.24 | 9.65   | 0.09  | QP      |
| 3  | 0.775  | 23.91 | 46.00 | -22.09 | 13.96 | 9.65   | 0.11  | Average |
| 4  | 0.775  | 23.88 | 46.00 | -22.12 | 13.93 | 9.65   | 0.11  | Average |
| 5  | 0.775  | 33.87 | 56.00 | -22.13 | 23.92 | 9.65   | 0.11  | QP      |
| 6* | 0.775  | 33.99 | 56.00 | -22.01 | 24.04 | 9.65   | 0.11  | QP      |
| 7  | 0.974  | 23.69 | 46.00 | -22.31 | 13.72 | 9.65   | 0.12  | Average |
| 8  | 0.974  | 33.57 | 56.00 | -22.43 | 23.60 | 9.65   | 0.12  | QP      |
| 9  | 4.574  | 22.51 | 46.00 | -23.49 | 12.26 | 9.68   | 0.30  | Average |
| 10 | 4.574  | 31.62 | 56.00 | -24.38 | 21.37 | 9.68   | 0.30  | QP      |
| 11 | 15.388 | 20.25 | 50.00 | -29.75 | 9.46  | 9.80   | 0.61  | Average |
| 12 | 15.388 | 29.33 | 60.00 | -30.67 | 18.54 | 9.80   | 0.61  | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

## 3.2 Emission Bandwidth

### 3.2.1 Limit of Emission bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 3.2.2 Test Procedures

#### 26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

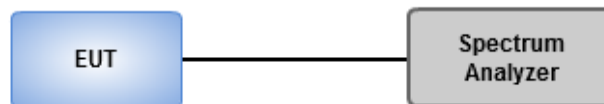
#### Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW  $\geq$  3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

#### 6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. 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 frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 3.2.3 Test Setup



### 3.2.4 Test Result of Emission Bandwidth

#### *Non-beamforming mode*

#### *Configuration 1: IP3421M model for indoor AP*

##### Summary

| Mode                              | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|-----------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.15-5.25GHz                      | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_4TX          | 36.304M          | 18.886M         | 18M9D1D  | 19.638M          | 16.425M         |
| 802.11ac<br>VHT20_Nss1,(MCS0)_4TX | 40.725M          | 19.971M         | 20M0D1D  | 19.71M           | 17.511M         |
| 802.11ac<br>VHT40_Nss1,(MCS0)_4TX | 41.014M          | 36.179M         | 36M2D1D  | 39.565M          | 36.035M         |
| 802.11ac<br>VHT80_Nss1,(MCS0)_4TX | 81.159M          | 75.253M         | 75M3D1D  | 79.42M           | 74.964M         |
| 5.725-5.85GHz                     | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_4TX          | 15.87M           | 27.931M         | 27M9D1D  | 3.13M            | 3.647M          |
| 802.11ac<br>VHT20_Nss1,(MCS0)_4TX | 15.942M          | 25.47M          | 25M5D1D  | 3.13M            | 3.994M          |
| 802.11ac<br>VHT40_Nss1,(MCS0)_4TX | 35.072M          | 57.742M         | 57M7D1D  | 3.13M            | 10.246M         |
| 802.11ac<br>VHT80_Nss1,(MCS0)_4TX | 75.362M          | 75.253M         | 75M3D1D  | 3.13M            | 18.35M          |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Min-OBW** = Minimum 99% occupied bandwidth;

## Result

| Mode                               | Result | Limit<br>(Hz) | Port 1<br>-N dB<br>(Hz) | Port 1<br>-OBW<br>(Hz) | Port 2<br>-N dB<br>(Hz) | Port 2<br>-OBW<br>(Hz) | Port 3<br>-N dB<br>(Hz) | Port 3<br>-OBW<br>(Hz) | Port 4<br>-N dB<br>(Hz) | Port 4<br>-OBW<br>(Hz) |
|------------------------------------|--------|---------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|
| 802.11a_<br>Nss1,(6Mbps)_4TX       | -      | -             | -                       | -                      | -                       | -                      | -                       | -                      | -                       | -                      |
| 5180MHz                            | Pass   | Inf           | 19.783M                 | 16.57M                 | 19.783M                 | 16.498M                | 19.855M                 | 16.498M                | 19.638M                 | 16.425M                |
| 5200MHz                            | Pass   | Inf           | 28.768M                 | 16.643M                | 29.493M                 | 16.787M                | 28.841M                 | 16.715M                | 30.362M                 | 16.57M                 |
| 5240MHz                            | Pass   | Inf           | 34.928M                 | 17.366M                | 29.348M                 | 16.86M                 | 28.768M                 | 16.787M                | 36.304M                 | 18.886M                |
| 5745MHz                            | Pass   | 500k          | 15.145M                 | 18.162M                | 15.145M                 | 18.09M                 | 15.145M                 | 17.438M                | 15.145M                 | 22.359M                |
| 5785MHz                            | Pass   | 500k          | 14.42M                  | 17.873M                | 13.841M                 | 18.813M                | 14.493M                 | 17.873M                | 15.87M                  | 25.253M                |
| 5825MHz                            | Pass   | 500k          | 11.957M                 | 19.609M                | 13.478M                 | 20.55M                 | 15.145M                 | 19.103M                | 15.87M                  | 27.931M                |
| 802.11ac VHT20_<br>Nss1,(MCS0)_4TX | -      | -             | -                       | -                      | -                       | -                      | -                       | -                      | -                       | -                      |
| 5180MHz                            | Pass   | Inf           | 20.435M                 | 17.511M                | 19.71M                  | 17.511M                | 19.928M                 | 17.583M                | 20.145M                 | 17.511M                |
| 5200MHz                            | Pass   | Inf           | 29.855M                 | 17.728M                | 33.768M                 | 17.873M                | 32.754M                 | 17.873M                | 27.826M                 | 17.656M                |
| 5240MHz                            | Pass   | Inf           | 40.725M                 | 18.379M                | 33.551M                 | 17.873M                | 31.812M                 | 17.873M                | 39.203M                 | 19.971M                |
| 5745MHz                            | Pass   | 500k          | 15.145M                 | 18.162M                | 15.652M                 | 18.524M                | 15.652M                 | 18.234M                | 13.841M                 | 21.056M                |
| 5785MHz                            | Pass   | 500k          | 15.072M                 | 18.162M                | 15.725M                 | 19.682M                | 15.145M                 | 18.524M                | 14.42M                  | 25.47M                 |
| 5825MHz                            | Pass   | 500k          | 14.058M                 | 17.945M                | 15.942M                 | 18.09M                 | 15.29M                  | 17.873M                | 15.072M                 | 20.405M                |
| 802.11ac VHT40_<br>Nss1,(MCS0)_4TX | -      | -             | -                       | -                      | -                       | -                      | -                       | -                      | -                       | -                      |
| 5190MHz                            | Pass   | Inf           | 40.58M                  | 36.035M                | 39.855M                 | 36.035M                | 40.145M                 | 36.035M                | 40M                     | 36.035M                |
| 5230MHz                            | Pass   | Inf           | 41.014M                 | 36.035M                | 39.565M                 | 36.035M                | 40.145M                 | 36.035M                | 40.145M                 | 36.179M                |
| 5755MHz                            | Pass   | 500k          | 33.913M                 | 36.324M                | 35.072M                 | 36.179M                | 32.609M                 | 36.035M                | 35.072M                 | 36.469M                |
| 5795MHz                            | Pass   | 500k          | 35.072M                 | 41.1M                  | 31.304M                 | 45.152M                | 35.072M                 | 40.666M                | 31.884M                 | 57.742M                |
| 802.11ac VHT80_<br>Nss1,(MCS0)_4TX | -      | -             | -                       | -                      | -                       | -                      | -                       | -                      | -                       | -                      |
| 5210MHz                            | Pass   | Inf           | 81.159M                 | 75.253M                | 79.42M                  | 74.964M                | 80M                     | 74.964M                | 80M                     | 74.964M                |
| 5775MHz                            | Pass   | 500k          | 75.362M                 | 75.253M                | 73.913M                 | 74.964M                | 71.304M                 | 74.964M                | 70.145M                 | 74.964M                |

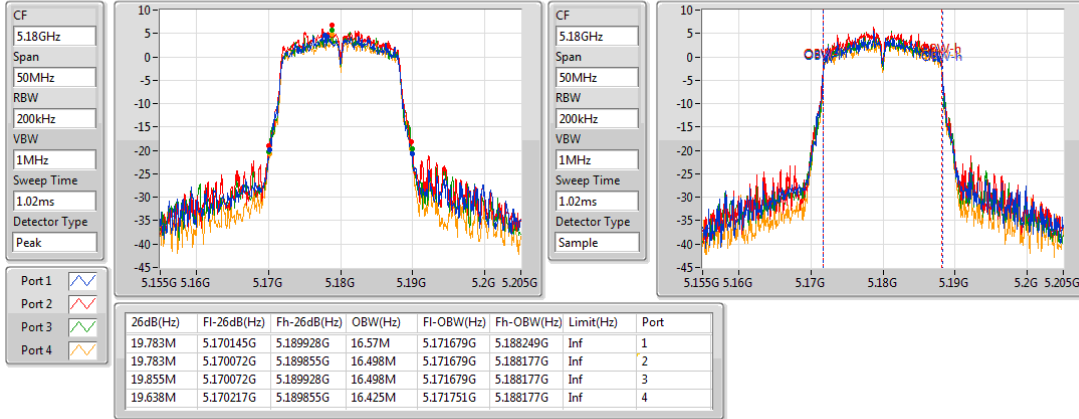
**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

**Port X-OBW** = Port X 99% occupied bandwidth;

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

EBW

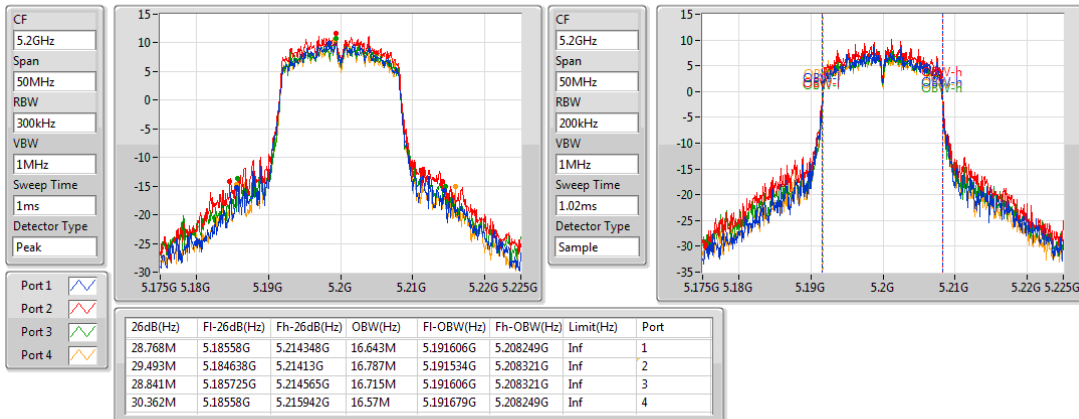
5180MHz



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

EBW

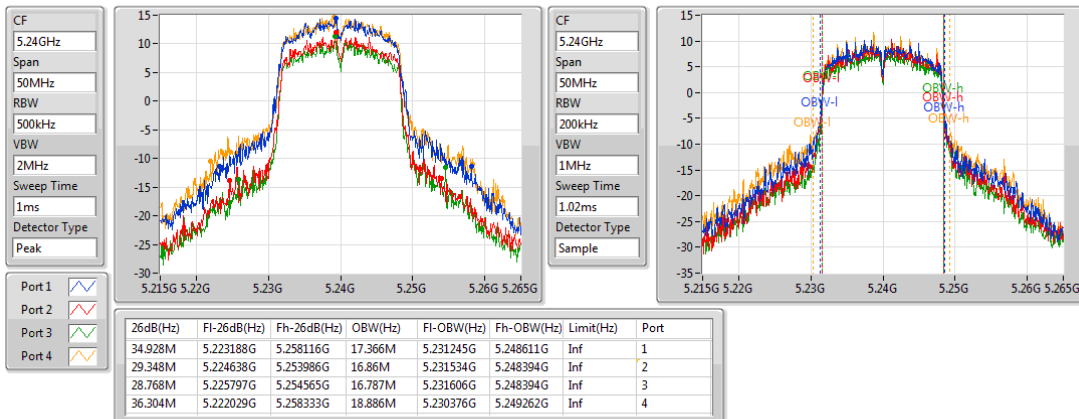
5200MHz



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

EBW

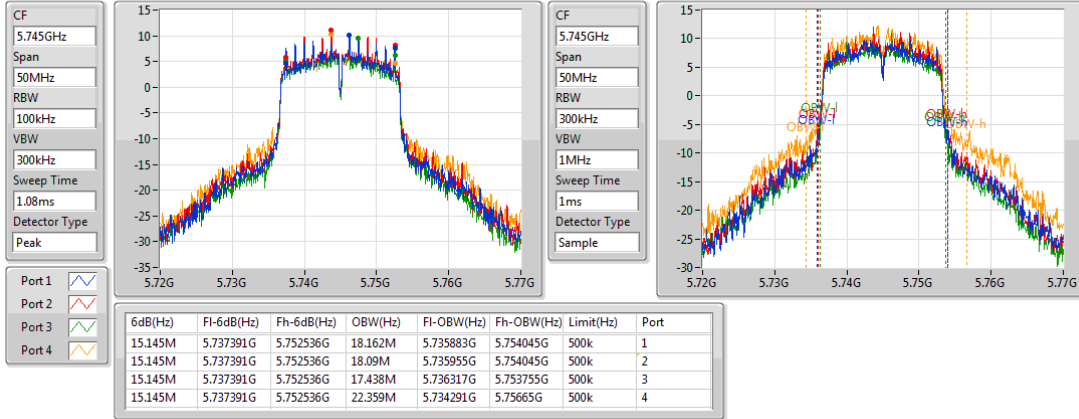
5240MHz



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

EBW

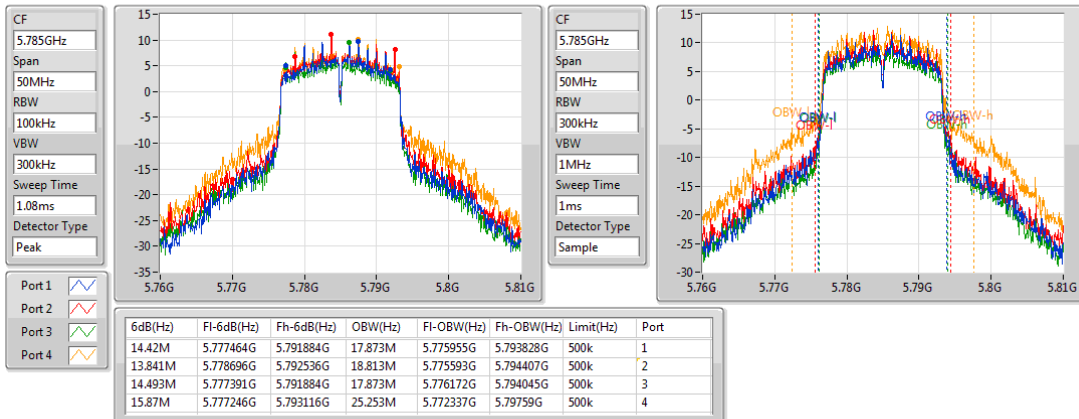
5745MHz



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

EBW

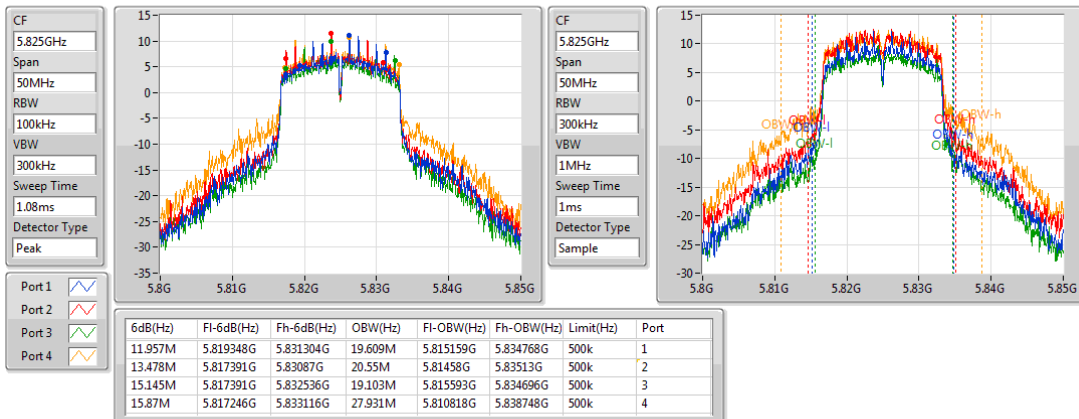
5785MHz



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

EBW

5825MHz

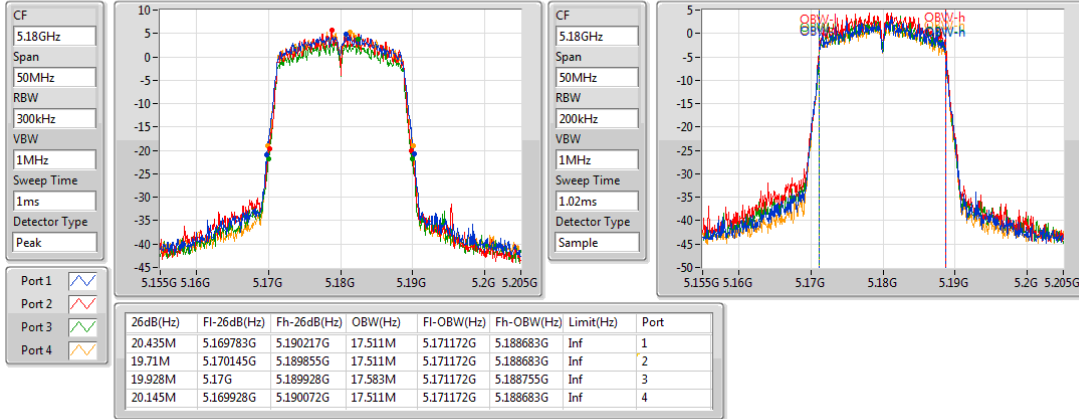




### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

EBW

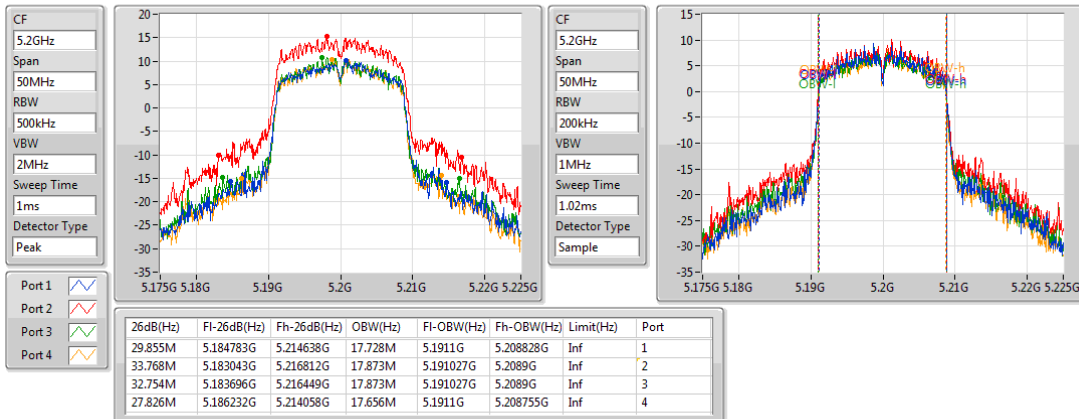
5180MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

EBW

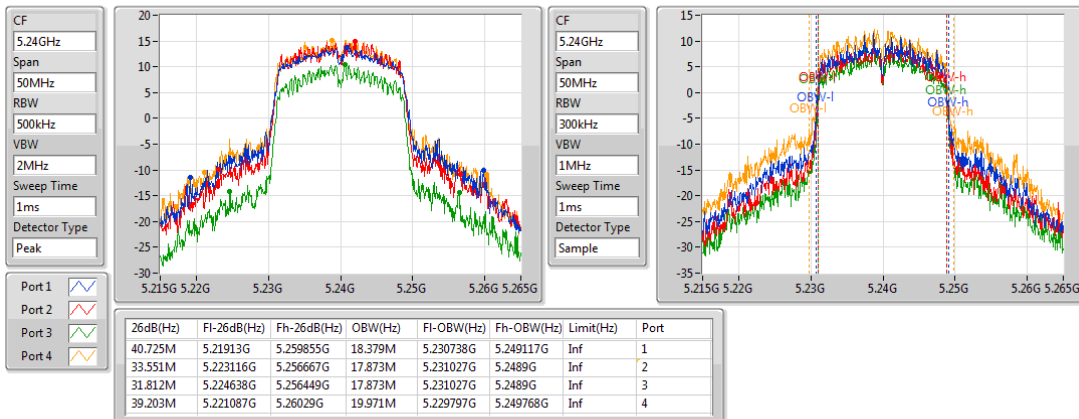
5200MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

EBW

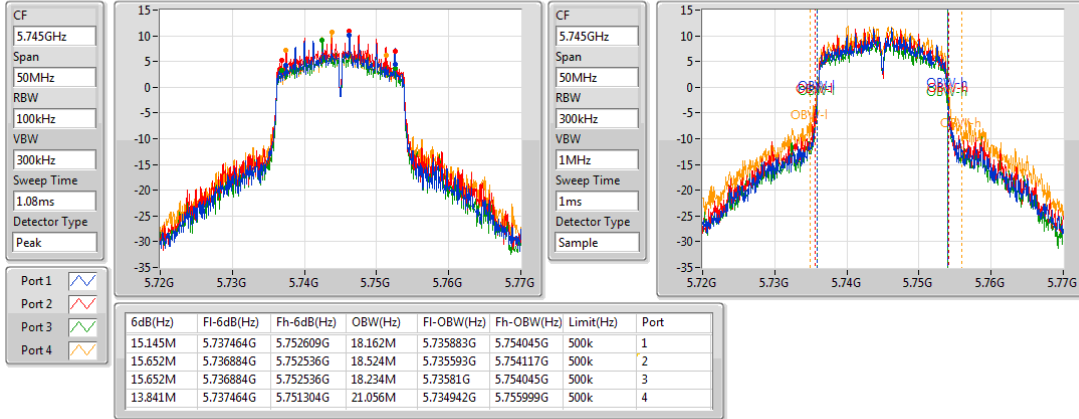
5240MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

EBW

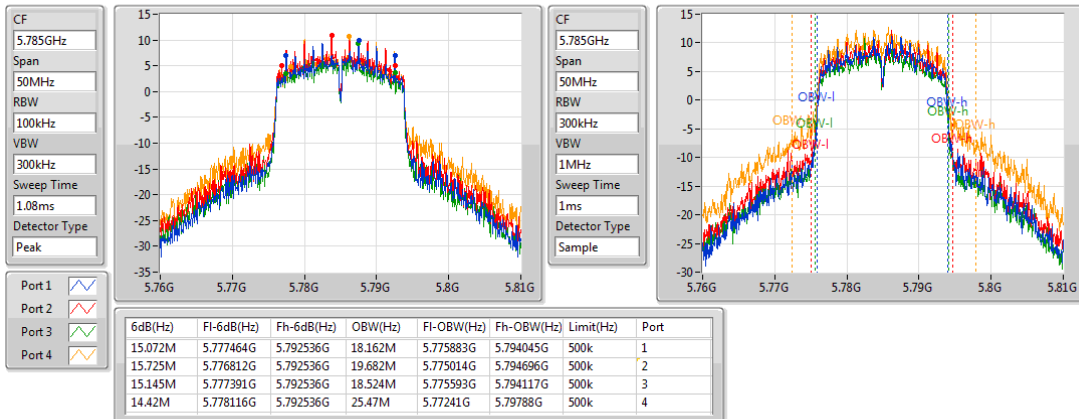
5745MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

EBW

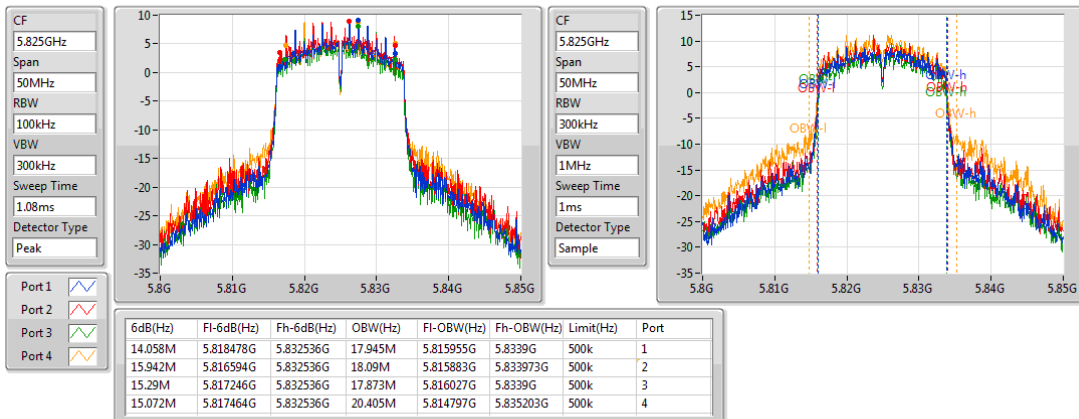
5785MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

EBW

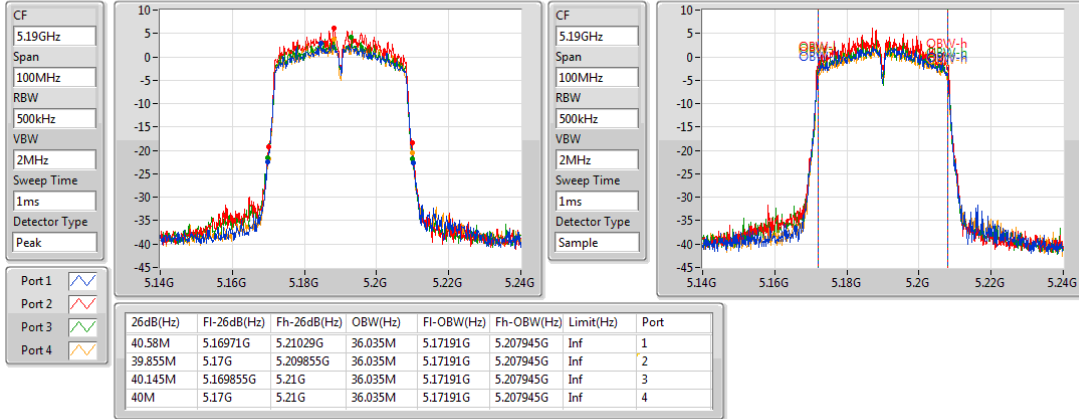
5825MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

EBW

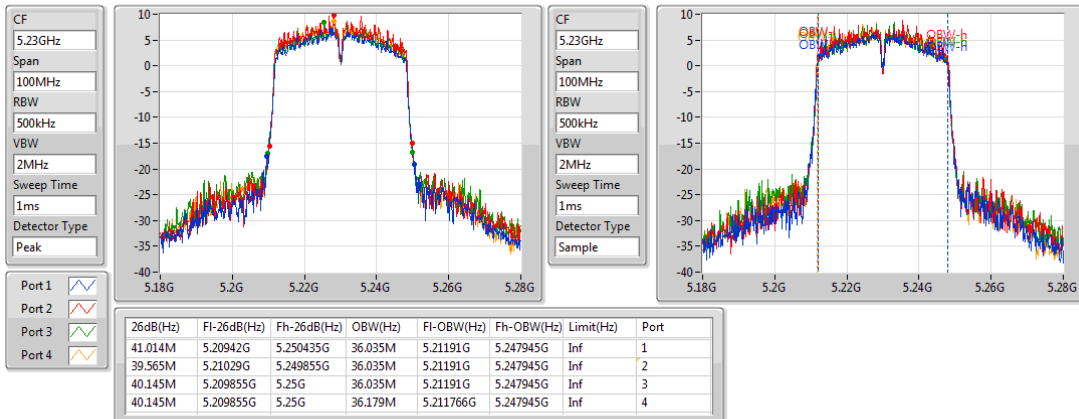
5190MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

EBW

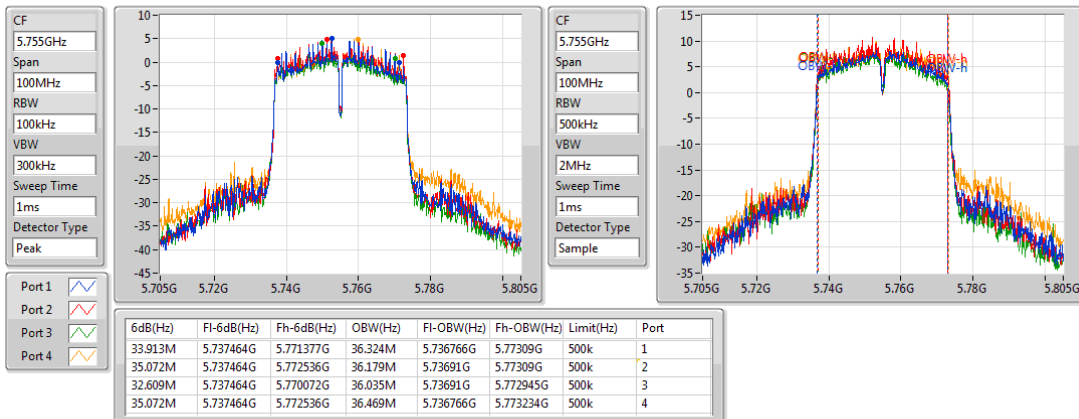
5230MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

EBW

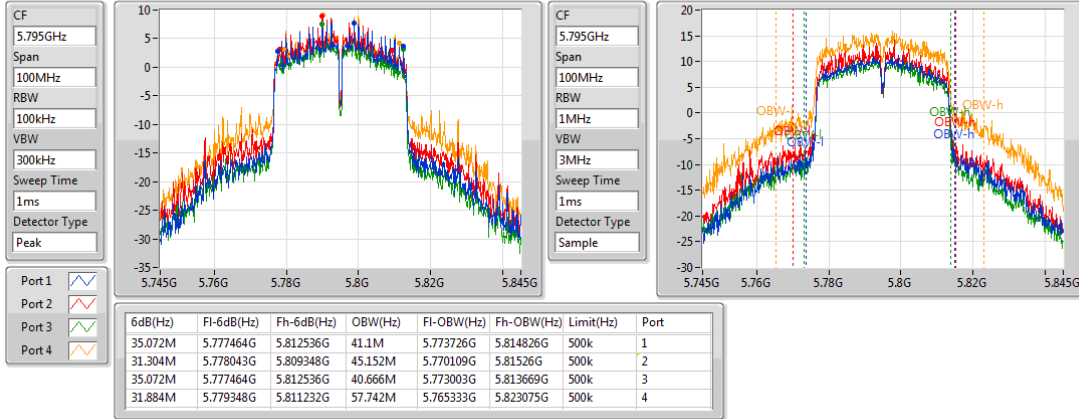
5755MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

EBW

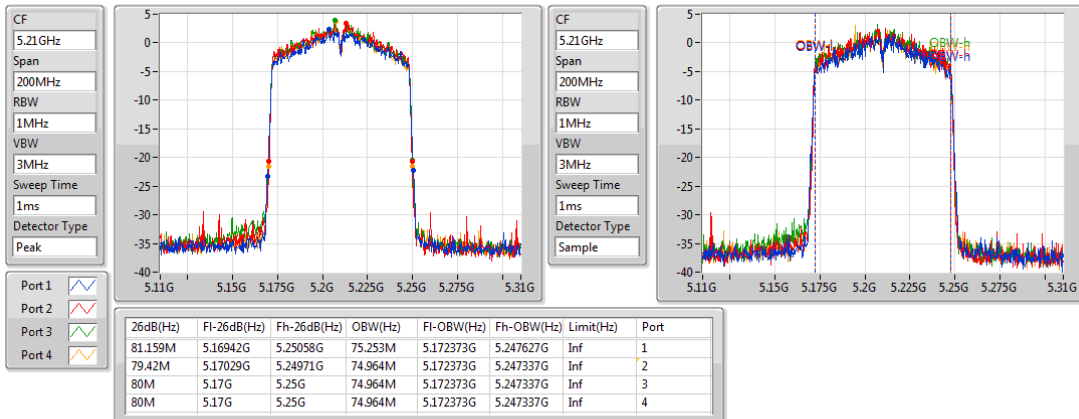
5795MHz



### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

EBW

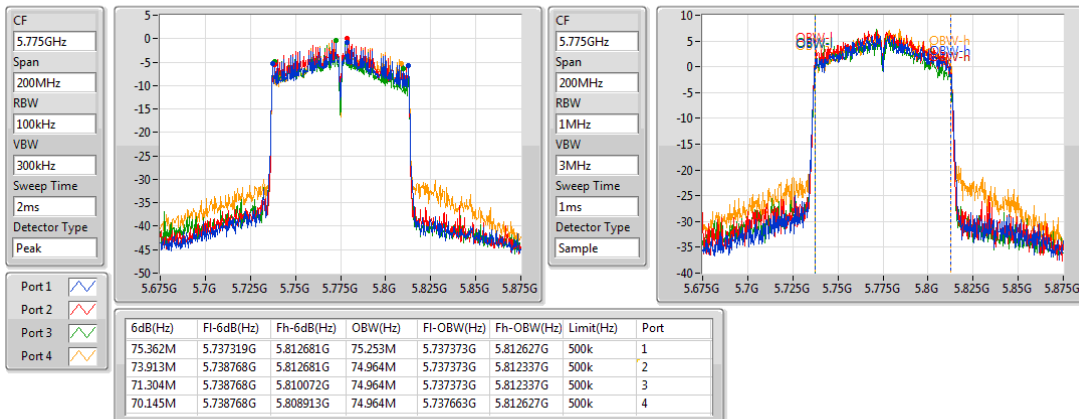
5210MHz



### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

EBW

5775MHz



**Beamforming mode:**

**Configuration 1: IP3421M model for indoor AP**

**Summary**

| Mode                                 | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.15-5.25GHz                         | -                | -               | -        | -                | -               |
| 802.11ac<br>VHT20-BF_Nss1,(MCS0)_4TX | 45.942M          | 22.576M         | 22M6D1D  | 19.928M          | 17.728M         |
| 802.11ac<br>VHT40-BF_Nss1,(MCS0)_4TX | 67.826M          | 36.469M         | 36M5D1D  | 40.58M           | 36.179M         |
| 802.11ac<br>VHT80-BF_Nss1,(MCS0)_4TX | 81.739M          | 75.832M         | 75M8D1D  | 81.159M          | 75.543M         |
| 5.725-5.85GHz                        | -                | -               | -        | -                | -               |
| 802.11ac<br>VHT20-BF_Nss1,(MCS0)_4TX | 17.681M          | 30.101M         | 30M1D1D  | 3.768M           | 4.052M          |
| 802.11ac<br>VHT40-BF_Nss1,(MCS0)_4TX | 36.087M          | 60.637M         | 60M6D1D  | 3.13M            | 3.936M          |
| 802.11ac<br>VHT80-BF_Nss1,(MCS0)_4TX | 75.942M          | 75.832M         | 75M8D1D  | 3.246M           | 6.831M          |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Min-OBW** = Minimum 99% occupied bandwidth;

## Result

| Mode                                  | Result | Limit<br>(Hz) | Port 1<br>-N dB<br>(Hz) | Port 1<br>-OBW<br>(Hz) | Port 2<br>-N dB<br>(Hz) | Port 2<br>-OBW<br>(Hz) | Port 3<br>-N dB<br>(Hz) | Port 3<br>-OBW<br>(Hz) | Port 4<br>-N dB<br>(Hz) | Port 4<br>-OBW<br>(Hz) |
|---------------------------------------|--------|---------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|
| 802.11ac VHT20-BF_<br>Nss1,(MCS0)_4TX | -      | -             | -                       | -                      | -                       | -                      | -                       | -                      | -                       | -                      |
| 5180MHz                               | Pass   | Inf           | 20.58M                  | 17.728M                | 20.507M                 | 17.728M                | 19.928M                 | 17.728M                | 20.58M                  | 17.8M                  |
| 5200MHz                               | Pass   | Inf           | 27.319M                 | 17.728M                | 27.899M                 | 17.945M                | 29.275M                 | 17.873M                | 26.014M                 | 17.873M                |
| 5240MHz                               | Pass   | Inf           | 42.681M                 | 19.03M                 | 34.71M                  | 17.945M                | 32.174M                 | 17.873M                | 45.942M                 | 22.576M                |
| 5745MHz                               | Pass   | 500k          | 17.319M                 | 18.958M                | 11.377M                 | 18.669M                | 12.029M                 | 18.813M                | 15.145M                 | 25.326M                |
| 5785MHz                               | Pass   | 500k          | 16.667M                 | 18.958M                | 17.246M                 | 21.635M                | 17.246M                 | 18.813M                | 15.942M                 | 28.871M                |
| 5825MHz                               | Pass   | 500k          | 14.058M                 | 24.24M                 | 16.884M                 | 25.543M                | 15.072M                 | 22.069M                | 17.681M                 | 30.101M                |
| 802.11ac VHT40-BF_<br>Nss1,(MCS0)_4TX | -      | -             | -                       | -                      | -                       | -                      | -                       | -                      | -                       | -                      |
| 5190MHz                               | Pass   | Inf           | 40.58M                  | 36.324M                | 40.725M                 | 36.324M                | 41.159M                 | 36.324M                | 41.014M                 | 36.324M                |
| 5230MHz                               | Pass   | Inf           | 40.87M                  | 36.179M                | 42.754M                 | 36.324M                | 62.319M                 | 36.469M                | 67.826M                 | 36.469M                |
| 5755MHz                               | Pass   | 500k          | 35.072M                 | 36.324M                | 35.072M                 | 36.324M                | 35.072M                 | 36.324M                | 31.304M                 | 36.614M                |
| 5795MHz                               | Pass   | 500k          | 35.072M                 | 43.271M                | 32.899M                 | 45.441M                | 36.087M                 | 38.784M                | 34.203M                 | 60.637M                |
| 802.11ac VHT80-BF_<br>Nss1,(MCS0)_4TX | -      | -             | -                       | -                      | -                       | -                      | -                       | -                      | -                       | -                      |
| 5210MHz                               | Pass   | Inf           | 81.739M                 | 75.832M                | 81.449M                 | 75.832M                | 81.159M                 | 75.832M                | 81.449M                 | 75.543M                |
| 5775MHz                               | Pass   | 500k          | 75.942M                 | 75.832M                | 62.029M                 | 75.543M                | 72.174M                 | 75.543M                | 66.377M                 | 75.832M                |

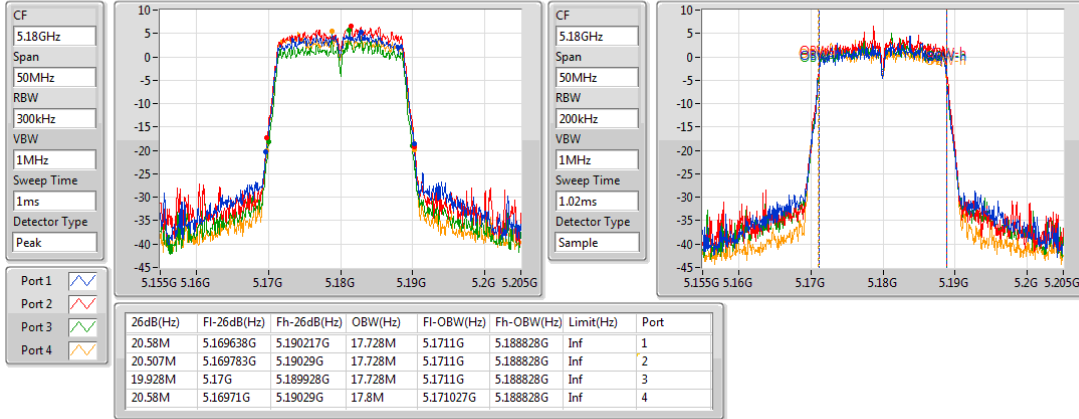
**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

**Port X-OBW** = Port X 99% occupied bandwidth;

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

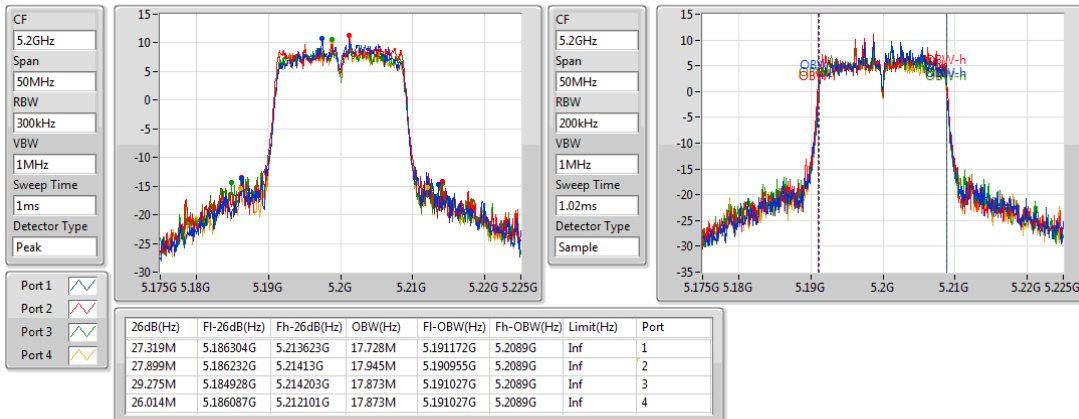
5180MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

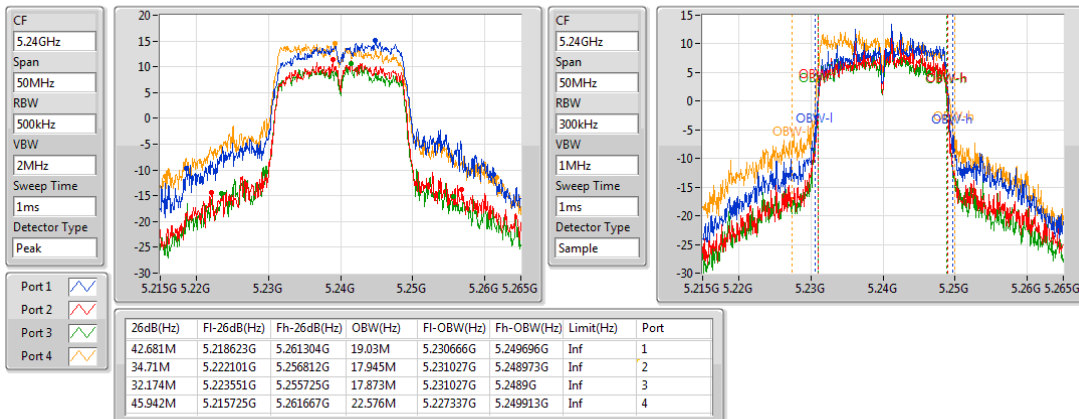
5200MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

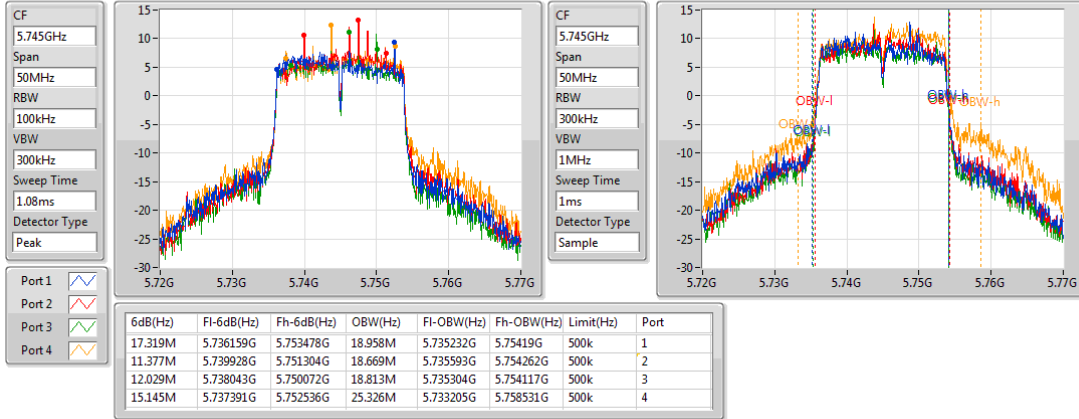
5240MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

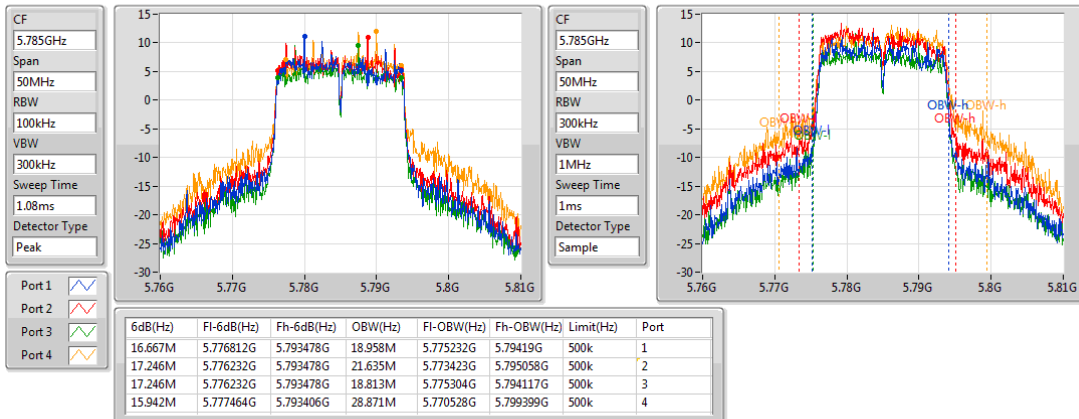
5745MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

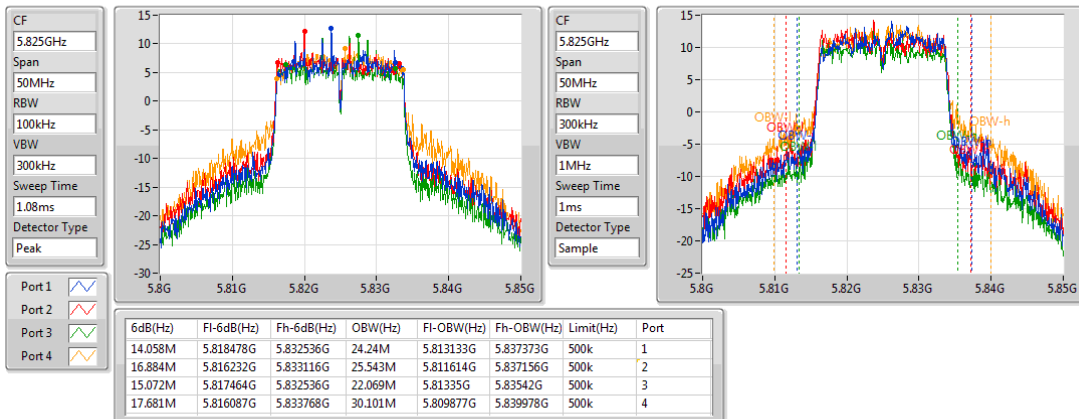
5785MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

5825MHz

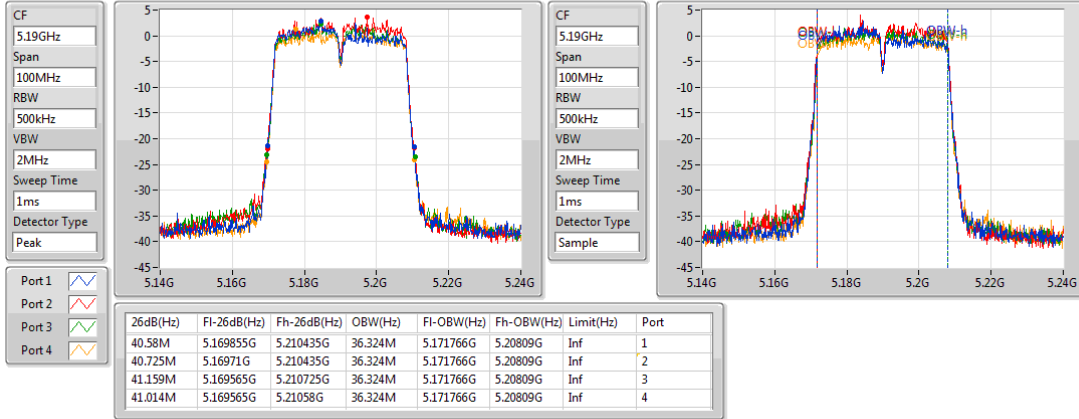




### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

EBW

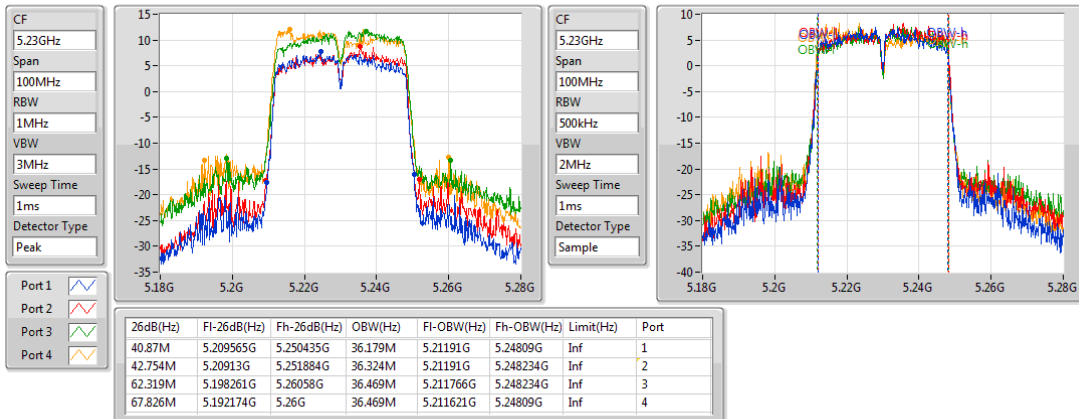
5190MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

EBW

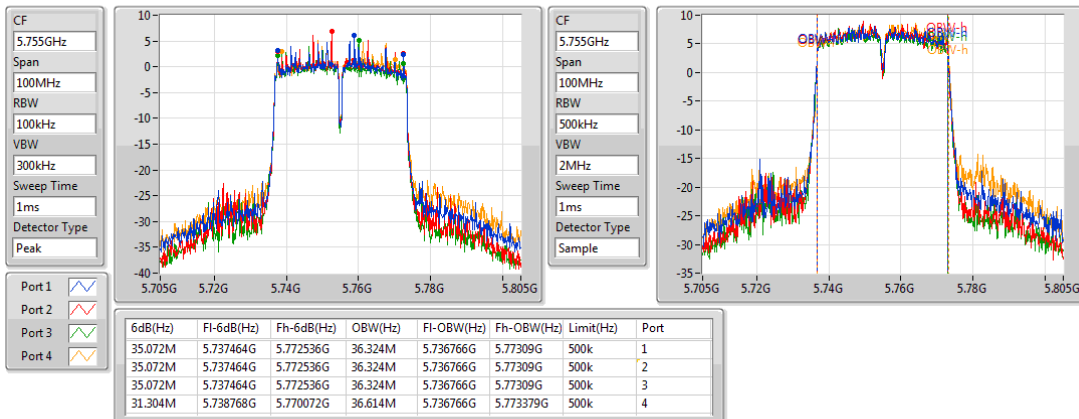
5230MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

EBW

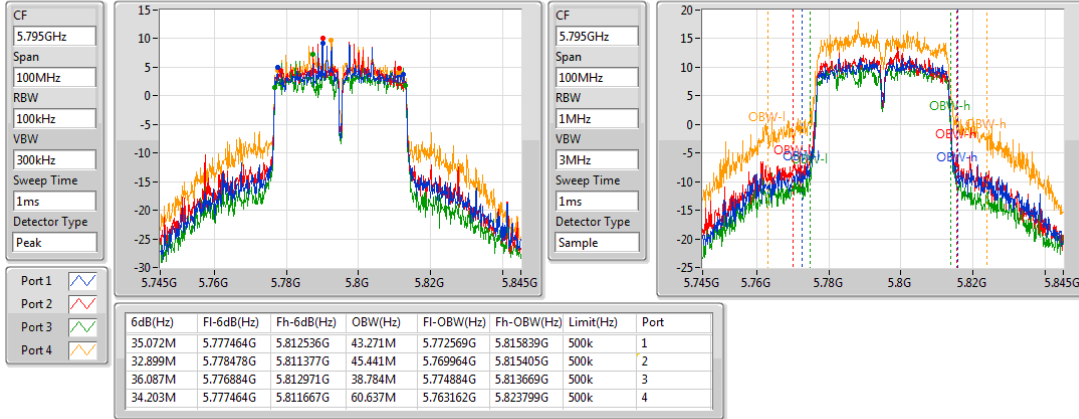
5755MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

EBW

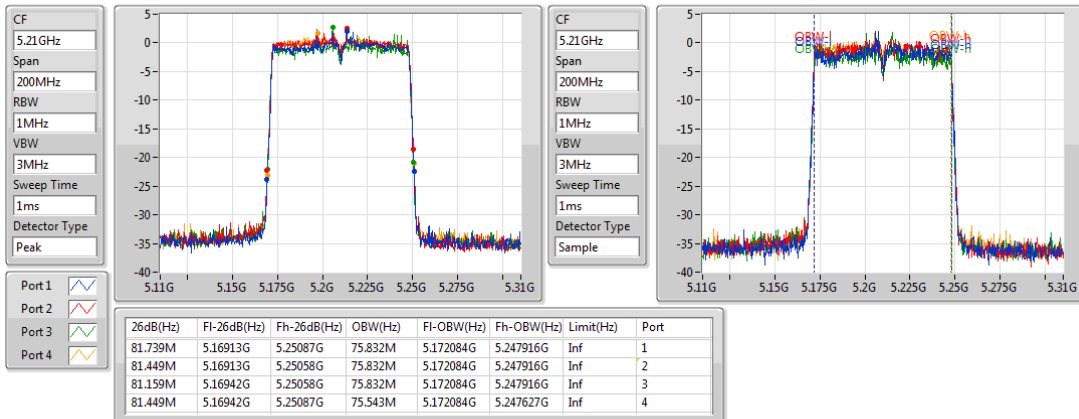
5795MHz



### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

EBW

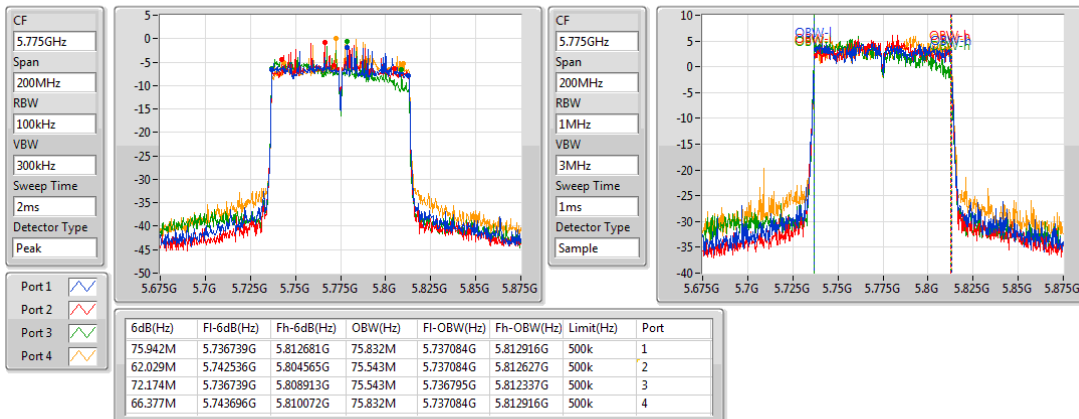
5210MHz



### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

EBW

5775MHz



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

| Frequency band 5150-5250 MHz        |                                    |                                                                                                                                                   |
|-------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Mode                      |                                    | Limit                                                                                                                                             |
| <input type="checkbox"/>            | Outdoor access point               | Conducted Power: 1 W<br>The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm) |
| <input checked="" type="checkbox"/> | Indoor access point                | Conducted Power: 1 W                                                                                                                              |
| <input type="checkbox"/>            | Fixed point-to-point access points | Conducted Power: 1 W                                                                                                                              |
| <input checked="" type="checkbox"/> | Client devices                     | Conducted Power: 250 mW                                                                                                                           |

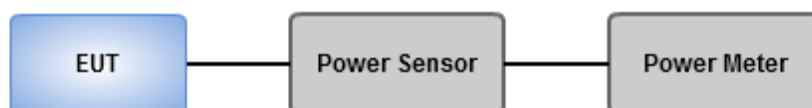
| Frequency Band (MHz)                            | Limit                |
|-------------------------------------------------|----------------------|
| <input checked="" type="checkbox"/> 5725 ~ 5850 | Conducted Power: 1 W |

#### 3.3.2 Test Procedures

##### Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

#### 3.3.3 Test Setup



### 3.3.4 Test Result of Maximum Conducted Output Power

#### *Non-beamforming mode: Configuration 1: IP3421M model for indoor AP*

##### Summary

| Mode                              | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|-----------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                      | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_4TX          | 26.17                | 0.41400            | 28.52         | 0.71121     |
| 802.11ac<br>VHT20_Nss1,(MCS0)_4TX | 26.21                | 0.41783            | 28.56         | 0.71779     |
| 802.11ac<br>VHT40_Nss1,(MCS0)_4TX | 22.67                | 0.18493            | 25.02         | 0.31769     |
| 802.11ac<br>VHT80_Nss1,(MCS0)_4TX | 16.66                | 0.04634            | 19.01         | 0.07962     |
| 5.725-5.85GHz                     | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_4TX          | 26.98                | 0.49888            | 29.64         | 0.92045     |
| 802.11ac<br>VHT20_Nss1,(MCS0)_4TX | 26.93                | 0.49317            | 29.59         | 0.90991     |
| 802.11ac<br>VHT40_Nss1,(MCS0)_4TX | 27.20                | 0.52481            | 29.86         | 0.96828     |
| 802.11ac<br>VHT80_Nss1,(MCS0)_4TX | 20.94                | 0.12417            | 23.60         | 0.22909     |

## Result

| Mode                               | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Port 4<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|------------------------------------|--------|-------------|-----------------|-----------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 802.11a_<br>Nss1,(6Mbps)_4TX       | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5180MHz                            | Pass   | 2.35        | 15.15           | 16.32           | 15.28           | 14.61           | 21.41                   | 30.00                   | 23.76         | 36.00                  |
| 5200MHz                            | Pass   | 2.35        | 19.11           | 19.80           | 19.16           | 18.42           | 25.17                   | 30.00                   | 27.52         | 36.00                  |
| 5240MHz                            | Pass   | 2.35        | 20.61           | 19.94           | 19.23           | 20.65           | 26.17                   | 30.00                   | 28.52         | 36.00                  |
| 5745MHz                            | Pass   | 2.66        | 20.63           | 21.04           | 20.04           | 20.71           | 26.64                   | 30.00                   | 29.30         | 36.00                  |
| 5785MHz                            | Pass   | 2.66        | 20.56           | 21.16           | 19.82           | 20.98           | 26.68                   | 30.00                   | 29.34         | 36.00                  |
| 5825MHz                            | Pass   | 2.66        | 20.92           | 21.22           | 20.12           | 21.47           | 26.98                   | 30.00                   | 29.64         | 36.00                  |
| 802.11ac VHT20_<br>Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5180MHz                            | Pass   | 2.35        | 13.46           | 14.88           | 13.96           | 12.54           | 19.81                   | 30.00                   | 22.16         | 36.00                  |
| 5200MHz                            | Pass   | 2.35        | 17.76           | 18.95           | 17.53           | 17.05           | 23.90                   | 30.00                   | 26.25         | 36.00                  |
| 5240MHz                            | Pass   | 2.35        | 20.51           | 20.22           | 19.33           | 20.57           | 26.21                   | 30.00                   | 28.56         | 36.00                  |
| 5745MHz                            | Pass   | 2.66        | 20.38           | 21.09           | 19.93           | 20.64           | 26.55                   | 30.00                   | 29.21         | 36.00                  |
| 5785MHz                            | Pass   | 2.66        | 20.52           | 21.12           | 19.79           | 20.95           | 26.65                   | 30.00                   | 29.31         | 36.00                  |
| 5825MHz                            | Pass   | 2.66        | 20.75           | 21.32           | 19.93           | 21.47           | 26.93                   | 30.00                   | 29.59         | 36.00                  |
| 802.11ac VHT40_<br>Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5190MHz                            | Pass   | 2.35        | 12.24           | 13.16           | 12.16           | 11.38           | 18.30                   | 30.00                   | 20.65         | 36.00                  |
| 5230MHz                            | Pass   | 2.35        | 16.52           | 16.86           | 16.63           | 16.56           | 22.67                   | 30.00                   | 25.02         | 36.00                  |
| 5755MHz                            | Pass   | 2.66        | 17.65           | 18.43           | 17.21           | 17.56           | 23.76                   | 30.00                   | 26.42         | 36.00                  |
| 5795MHz                            | Pass   | 2.66        | 20.82           | 21.71           | 20.23           | 21.77           | 27.20                   | 30.00                   | 29.86         | 36.00                  |
| 802.11ac VHT80_<br>Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5210MHz                            | Pass   | 2.35        | 10.25           | 10.96           | 10.89           | 10.40           | 16.66                   | 30.00                   | 19.01         | 36.00                  |
| 5775MHz                            | Pass   | 2.66        | 14.72           | 15.35           | 14.43           | 15.12           | 20.94                   | 30.00                   | 23.60         | 36.00                  |

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

### Non-beamforming mode: Configuration 2: RP362M model for Client

#### Summary

| Mode                              | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|-----------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                      | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_4TX          | 20.47                | 0.11143            | 22.82         | 0.19143     |
| 802.11ac<br>VHT20_Nss1,(MCS0)_4TX | 20.28                | 0.10666            | 22.63         | 0.18323     |
| 802.11ac<br>VHT40_Nss1,(MCS0)_4TX | 22.67                | 0.18493            | 25.02         | 0.31769     |
| 802.11ac<br>VHT80_Nss1,(MCS0)_4TX | 16.66                | 0.04634            | 19.01         | 0.07962     |

#### Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Port 4<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 802.11a_Nss1,(6Mbps)_4TX       | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5180MHz                        | Pass   | 2.35        | 14.32           | 15.31           | 14.24           | 13.76           | 20.47                   | 24.00                   | 22.82         | 30.00                  |
| 5200MHz                        | Pass   | 2.35        | 14.12           | 15.22           | 14.15           | 13.46           | 20.30                   | 24.00                   | 22.65         | 30.00                  |
| 5240MHz                        | Pass   | 2.35        | 14.06           | 14.31           | 14.36           | 13.89           | 20.18                   | 24.00                   | 22.53         | 30.00                  |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5180MHz                        | Pass   | 2.35        | 13.46           | 14.88           | 13.96           | 12.54           | 19.81                   | 24.00                   | 22.16         | 30.00                  |
| 5200MHz                        | Pass   | 2.35        | 14.06           | 14.96           | 14.09           | 13.82           | 20.28                   | 24.00                   | 22.63         | 30.00                  |
| 5240MHz                        | Pass   | 2.35        | 13.89           | 14.41           | 14.32           | 13.83           | 20.14                   | 24.00                   | 22.49         | 30.00                  |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5190MHz                        | Pass   | 2.35        | 12.24           | 13.16           | 12.16           | 11.38           | 18.30                   | 24.00                   | 20.65         | 30.00                  |
| 5230MHz                        | Pass   | 2.35        | 16.52           | 16.86           | 16.63           | 16.56           | 22.67                   | 24.00                   | 25.02         | 30.00                  |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5210MHz                        | Pass   | 2.35        | 10.25           | 10.96           | 10.89           | 10.4            | 16.66                   | 24.00                   | 19.01         | 30.00                  |

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

### Beamforming mode: Configuration 1: IP3421M model for indoor AP

#### Summary

| Mode                                 | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                         | -                    | -                  | -             | -           |
| 802.11ac<br>VHT20-BF_Nss1,(MCS0)_4TX | 25.96                | 0.39446            | 34.21         | 2.63633     |
| 802.11ac<br>VHT40-BF_Nss1,(MCS0)_4TX | 22.64                | 0.18365            | 30.89         | 1.22744     |
| 802.11ac<br>VHT80-BF_Nss1,(MCS0)_4TX | 15.32                | 0.03404            | 23.57         | 0.22751     |
| 5.725-5.85GHz                        | -                    | -                  | -             | -           |
| 802.11ac<br>VHT20-BF_Nss1,(MCS0)_4TX | 26.83                | 0.48195            | 35.40         | 3.46737     |
| 802.11ac<br>VHT40-BF_Nss1,(MCS0)_4TX | 27.18                | 0.52240            | 35.75         | 3.75837     |
| 802.11ac<br>VHT80-BF_Nss1,(MCS0)_4TX | 20.07                | 0.10162            | 28.64         | 0.73114     |

## Result

| Mode                                  | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Port 4<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|---------------------------------------|--------|-------------|-----------------|-----------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 802.11ac VHT20-BF_<br>Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5180MHz                               | Pass   | 8.25        | 13.54           | 14.72           | 13.76           | 12.81           | 19.78                   | 27.75                   | 28.03         | 36.00                  |
| 5200MHz                               | Pass   | 8.25        | 17.46           | 18.62           | 17.29           | 17.01           | 23.66                   | 27.75                   | 31.91         | 36.00                  |
| 5240MHz                               | Pass   | 8.25        | 20.47           | 19.85           | 19.02           | 20.28           | 25.96                   | 27.75                   | 34.21         | 36.00                  |
| 5745MHz                               | Pass   | 8.57        | 20.06           | 20.76           | 19.74           | 19.77           | 26.12                   | 27.43                   | 34.69         | 36.00                  |
| 5785MHz                               | Pass   | 8.57        | 20.28           | 20.94           | 19.64           | 20.52           | 26.39                   | 27.43                   | 34.96         | 36.00                  |
| 5825MHz                               | Pass   | 8.57        | 21.02           | 21.09           | 20.06           | 20.98           | 26.83                   | 27.43                   | 35.40         | 36.00                  |
| 802.11ac VHT40-BF_<br>Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5190MHz                               | Pass   | 8.25        | 11.25           | 12.12           | 11.02           | 10.32           | 17.25                   | 27.75                   | 25.50         | 36.00                  |
| 5230MHz                               | Pass   | 8.25        | 16.78           | 16.88           | 16.49           | 16.29           | 22.64                   | 27.75                   | 30.89         | 36.00                  |
| 5755MHz                               | Pass   | 8.57        | 17.53           | 17.91           | 17.12           | 17.48           | 23.54                   | 27.43                   | 32.11         | 36.00                  |
| 5795MHz                               | Pass   | 8.57        | 21.11           | 21.56           | 20.22           | 21.62           | 27.18                   | 27.43                   | 35.75         | 36.00                  |
| 802.11ac VHT80-BF_<br>Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                      |
| 5210MHz                               | Pass   | 8.25        | 9.02            | 9.31            | 9.62            | 9.21            | 15.32                   | 27.75                   | 23.57         | 36.00                  |
| 5775MHz                               | Pass   | 8.57        | 14.02           | 14.22           | 13.69           | 14.25           | 20.07                   | 27.43                   | 28.64         | 36.00                  |

**Port X** = Port X output power

For 5.15 ~ 5.25 GHz

**DG** = Directional Gain =  $10 * \log((10^{2.03/20} + 10^{2.24/20} + 10^{2.35/20} + 10^{2.29/20})^2 / 3) = 8.25 \text{ dBi} > 6 \text{ dBi}$

Limit shall be reduced to 30 dBm - ( 8.25 dBi - 6 dBi) = 27.75 dBm

For 5.725 ~ 5.85 GHz

**DG** = Directional Gain =  $10 * \log((10^{2.45/20} + 10^{2.59/20} + 10^{2.5/20} + 10^{2.66/20})^2 / 3) = 8.57 \text{ dBi} > 6 \text{ dBi}$

Limit shall be reduced to 30 dBm - ( 8.57 dBi - 6 dBi) = 27.43 dBm



### Beamforming mode: Configuration 2: RP362M model for Client

#### Summary

| Mode                              | Total Power (dBm) | Total Power (W) | EIRP (dBm) | EIRP (W) |
|-----------------------------------|-------------------|-----------------|------------|----------|
| 5.15-5.25GHz                      | -                 | -               | -          | -        |
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | 20.25             | 0.10593         | 28.50      | 0.70795  |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | 21.60             | 0.14454         | 29.85      | 0.96605  |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | 15.32             | 0.03404         | 23.57      | 0.22751  |

#### Result

| Mode                              | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Port 3 (dBm) | Port 4 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|-----------------------------------|--------|----------|--------------|--------------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | -      | -        | -            | -            | -            | -            | -                 | -                 | -          | -                |
| 5180MHz                           | Pass   | 8.25     | 13.54        | 14.72        | 13.76        | 12.81        | 19.78             | 21.75             | 28.03      | 30.00            |
| 5200MHz                           | Pass   | 8.25     | 14.11        | 14.96        | 13.94        | 13.81        | 20.25             | 21.75             | 28.50      | 30.00            |
| 5240MHz                           | Pass   | 8.25     | 13.86        | 14.15        | 14.14        | 14.01        | 20.06             | 21.75             | 28.31      | 30.00            |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | -      | -        | -            | -            | -            | -            | -                 | -                 | -          | -                |
| 5190MHz                           | Pass   | 8.25     | 11.25        | 12.12        | 11.02        | 10.32        | 17.25             | 21.75             | 25.50      | 30.00            |
| 5230MHz                           | Pass   | 8.25     | 15.69        | 15.84        | 15.52        | 15.25        | 21.60             | 21.75             | 29.85      | 30.00            |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | -      | -        | -            | -            | -            | -            | -                 | -                 | -          | -                |
| 5210MHz                           | Pass   | 8.25     | 9.02         | 9.31         | 9.62         | 9.21         | 15.32             | 21.75             | 23.57      | 30.00            |

**Port X** = Port X output power

**DG** = Directional Gain =  $10 * \log((10^{2.03/20} + 10^{2.24/20} + 10^{2.35/20} + 10^{2.29/20})^2 / 3) = 8.25 \text{ dBi} > 6 \text{ dBi}$

Limit shall be reduced to 24 dBm - ( 8.25 dBi - 6 dBi) = 21.75 dBm

### 3.4 Peak Power Spectral Density

#### 3.4.1 Limit of Peak Power Spectral Density

| Frequency band 5150-5250 MHz        |                                    |              |
|-------------------------------------|------------------------------------|--------------|
| Operating Mode                      |                                    | Limit        |
| <input type="checkbox"/>            | Outdoor access point               | 17 dBm / MHz |
| <input checked="" type="checkbox"/> | Indoor access point                | 17 dBm / MHz |
| <input type="checkbox"/>            | Fixed point-to-point access points | 17 dBm / MHz |
| <input checked="" type="checkbox"/> | Client devices                     | 11 dBm / MHz |

| Frequency Band (MHz)                |             | Limit           |
|-------------------------------------|-------------|-----------------|
| <input checked="" type="checkbox"/> | 5725 ~ 5850 | 30 dBm /500 kHz |

### 3.4.2 Test Procedures

#### For 5150 ~ 5250 MHz

Duty cycle  $\geq$  98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle  $<$  98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time  $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$ .
3. Perform 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.

#### For 5725 ~ 5850 MHz

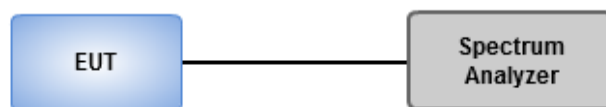
Duty cycle  $\geq$  98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle  $<$  98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time  $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$ .
3. Perform 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 Peak Power Spectral Density

#### *Non-beamforming mode: Configuration 1: IP3421M model for indoor AP*

##### Summary

| Mode                              | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|-----------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                      | -               | -                    |
| 802.11a_Nss1,(6Mbps)_4TX          | 13.87           | 22.12                |
| 802.11ac<br>VHT20_Nss1,(MCS0)_4TX | 13.54           | 21.79                |
| 802.11ac<br>VHT40_Nss1,(MCS0)_4TX | 7.45            | 15.70                |
| 802.11ac<br>VHT80_Nss1,(MCS0)_4TX | -1.20           | 7.05                 |
| 5.725-5.85GHz                     | -               | -                    |
| 802.11a_Nss1,(6Mbps)_4TX          | 13.34           | 21.91                |
| 802.11ac<br>VHT20_Nss1,(MCS0)_4TX | 12.90           | 21.47                |
| 802.11ac<br>VHT40_Nss1,(MCS0)_4TX | 10.45           | 19.02                |
| 802.11ac<br>VHT80_Nss1,(MCS0)_4TX | 1.82            | 10.39                |

**RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

## Result

| Mode                               | Result | DG<br>(dBi) | Port 1<br>(dBm/<br>RBW) | Port 2<br>(dBm/<br>RBW) | Port 3<br>(dBm/<br>RBW) | Port 4<br>(dBm/<br>RBW) | PD<br>(dBm/<br>RBW) | PD<br>Limit<br>(dBm/<br>RBW) | EIRP<br>PD<br>(dBm/<br>RBW) | EIRP<br>PD<br>Limit<br>(dBm/<br>RBW) |
|------------------------------------|--------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|------------------------------|-----------------------------|--------------------------------------|
| 802.11a<br>Nss1,(6Mbps)_4TX        | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5180MHz                            | Pass   | 8.25        | 3.30                    | 4.16                    | 3.24                    | 2.39                    | 9.31                | 14.75                        | 17.56                       | 23.00                                |
| 5200MHz                            | Pass   | 8.25        | 6.84                    | 7.61                    | 6.50                    | 6.06                    | 12.81               | 14.75                        | 21.06                       | 23.00                                |
| 5240MHz                            | Pass   | 8.25        | 8.42                    | 7.70                    | 6.91                    | 8.26                    | 13.87               | 14.75                        | 22.12                       | 23.00                                |
| 5745MHz                            | Pass   | 8.57        | 6.93                    | 7.45                    | 6.24                    | 6.83                    | 12.90               | 27.43                        | 21.47                       | 36.00                                |
| 5785MHz                            | Pass   | 8.57        | 6.92                    | 7.51                    | 6.09                    | 7.31                    | 13.00               | 27.43                        | 21.57                       | 36.00                                |
| 5825MHz                            | Pass   | 8.57        | 7.55                    | 7.66                    | 6.32                    | 7.65                    | 13.34               | 27.43                        | 21.91                       | 36.00                                |
| 802.11ac VHT20_<br>Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5180MHz                            | Pass   | 8.25        | 2.02                    | 3.41                    | 2.23                    | 1.49                    | 8.29                | 14.75                        | 16.54                       | 23.00                                |
| 5200MHz                            | Pass   | 8.25        | 5.48                    | 6.86                    | 5.70                    | 5.29                    | 11.89               | 14.75                        | 20.14                       | 23.00                                |
| 5240MHz                            | Pass   | 8.25        | 8.00                    | 7.46                    | 6.30                    | 8.17                    | 13.54               | 14.75                        | 21.79                       | 23.00                                |
| 5745MHz                            | Pass   | 8.57        | 6.73                    | 7.59                    | 6.47                    | 6.81                    | 12.90               | 27.43                        | 21.47                       | 36.00                                |
| 5785MHz                            | Pass   | 8.57        | 6.65                    | 7.55                    | 6.12                    | 7.09                    | 12.86               | 27.43                        | 21.43                       | 36.00                                |
| 5825MHz                            | Pass   | 8.57        | 5.72                    | 6.42                    | 5.07                    | 5.72                    | 11.75               | 27.43                        | 20.32                       | 36.00                                |
| 802.11ac VHT40_<br>Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5190MHz                            | Pass   | 8.25        | -2.90                   | -2.02                   | -2.87                   | -3.50                   | 3.18                | 14.75                        | 11.43                       | 23.00                                |
| 5230MHz                            | Pass   | 8.25        | 1.25                    | 1.63                    | 1.35                    | 1.59                    | 7.45                | 14.75                        | 15.70                       | 23.00                                |
| 5755MHz                            | Pass   | 8.57        | 1.31                    | 1.80                    | 0.75                    | 1.44                    | 7.31                | 27.43                        | 15.88                       | 36.00                                |
| 5795MHz                            | Pass   | 8.57        | 4.31                    | 4.94                    | 3.60                    | 4.80                    | 10.45               | 27.43                        | 19.02                       | 36.00                                |
| 802.11ac VHT80_<br>Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5210MHz                            | Pass   | 8.25        | -7.53                   | -7.04                   | -6.84                   | -7.03                   | -1.20               | 14.75                        | 7.05                        | 23.00                                |
| 5775MHz                            | Pass   | 8.57        | -4.29                   | -3.70                   | -4.88                   | -3.51                   | 1.82                | 27.43                        | 10.39                       | 36.00                                |

**RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

For 5.15 ~ 5.25 GHz

**DG** = Directional Gain =  $10 * \log((10^{2.03/20} + 10^{2.24/20} + 10^{2.35/20} + 10^{2.29/20})^2 / 3) = 8.25 \text{ dBi} > 6 \text{ dBi}$

Limit shall be reduced to 17 dBm - ( 8.25 dBi - 6 dBi) = 14.75 dBm

For 5.725 ~ 5.85 GHz

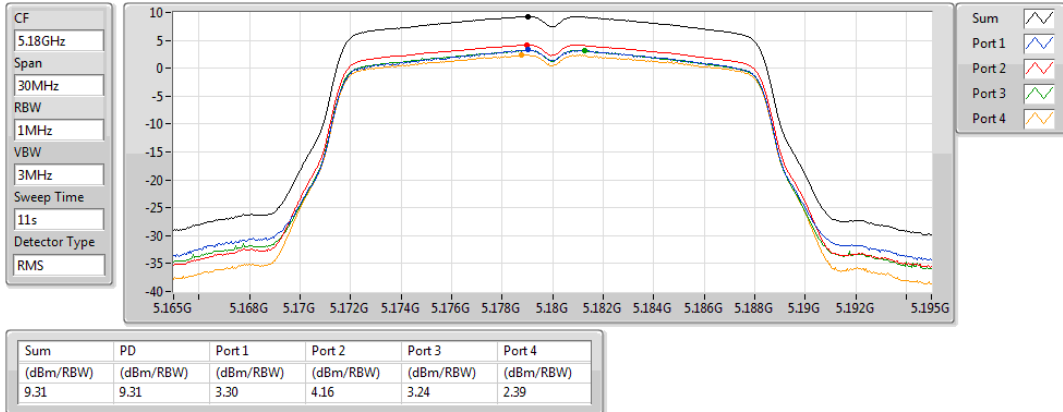
**DG** = Directional Gain =  $10 * \log((10^{2.45/20} + 10^{2.59/20} + 10^{2.5/20} + 10^{2.66/20})^2 / 3) = 8.57 \text{ dBi} > 6 \text{ dBi}$

Limit shall be reduced to 30 dBm - ( 8.57 dBi - 6 dBi) = 27.43 dBm

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

PSD

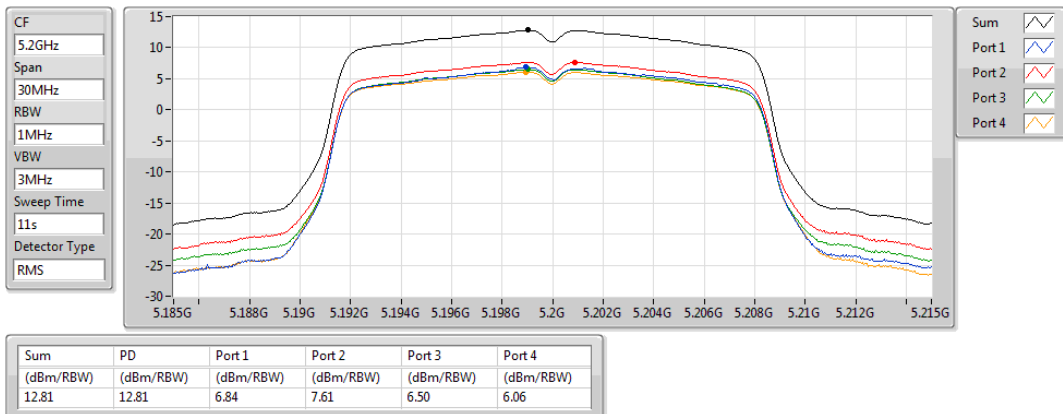
5180MHz



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

PSD

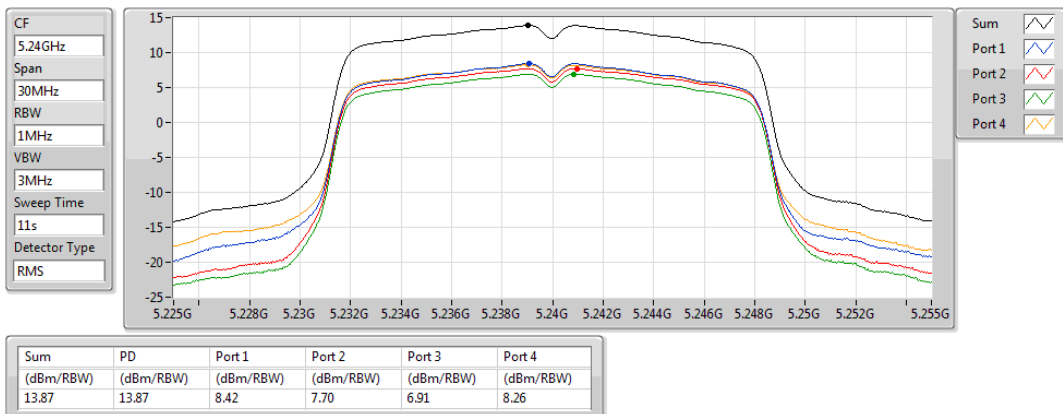
5200MHz



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

PSD

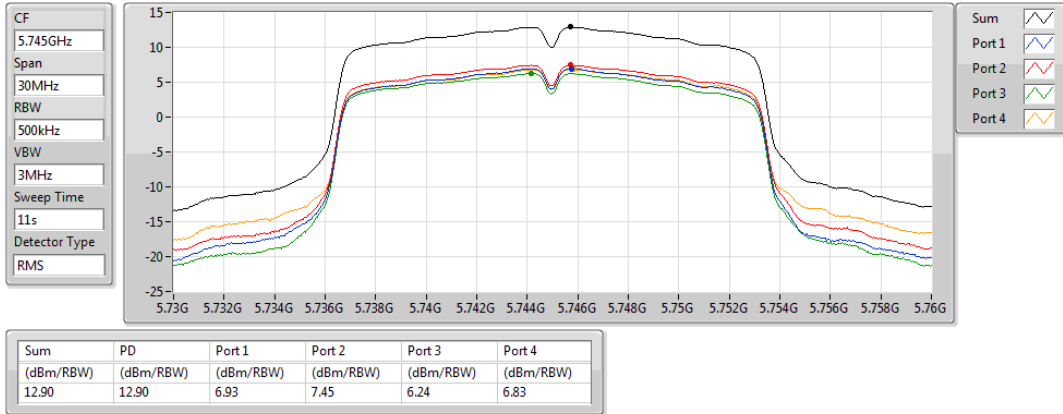
5240MHz



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

PSD

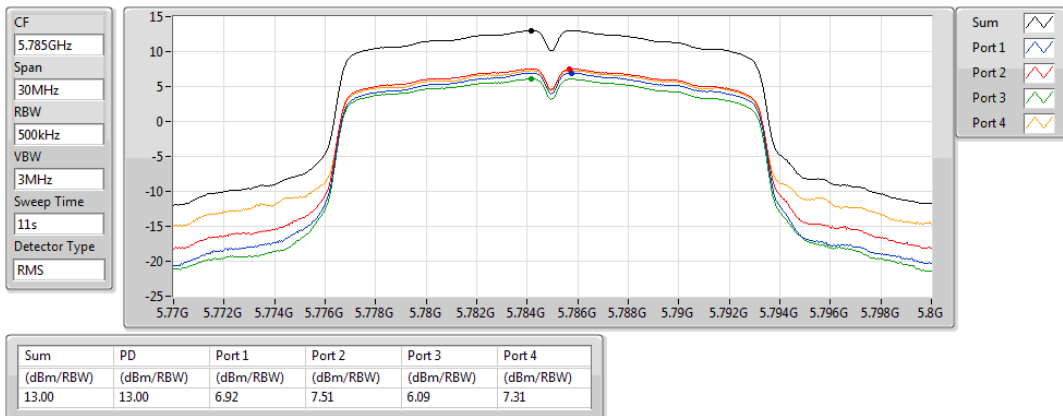
5745MHz



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

PSD

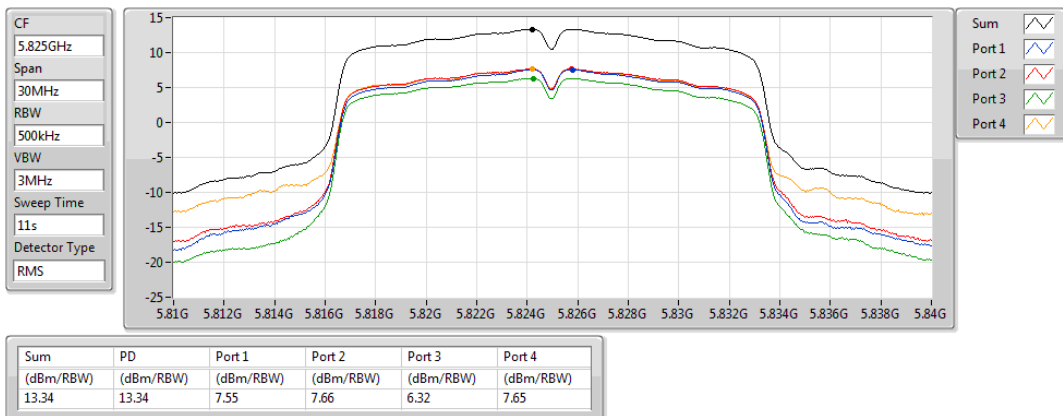
5785MHz



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

PSD

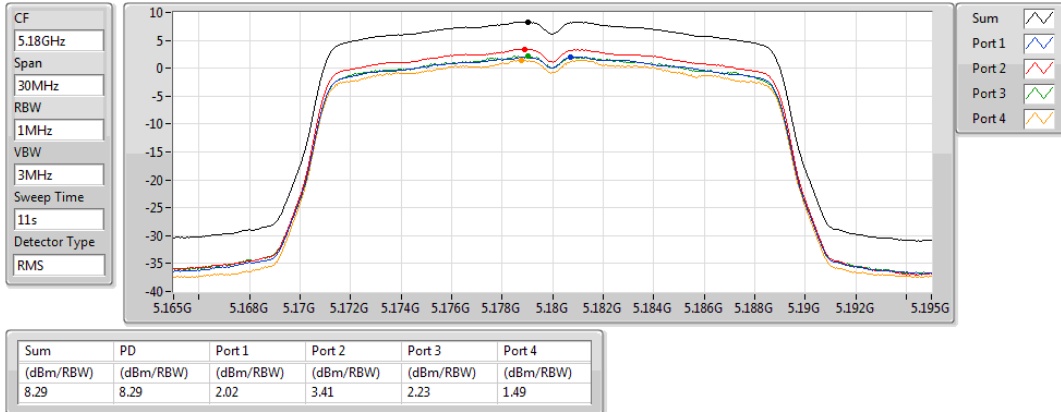
5825MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

PSD

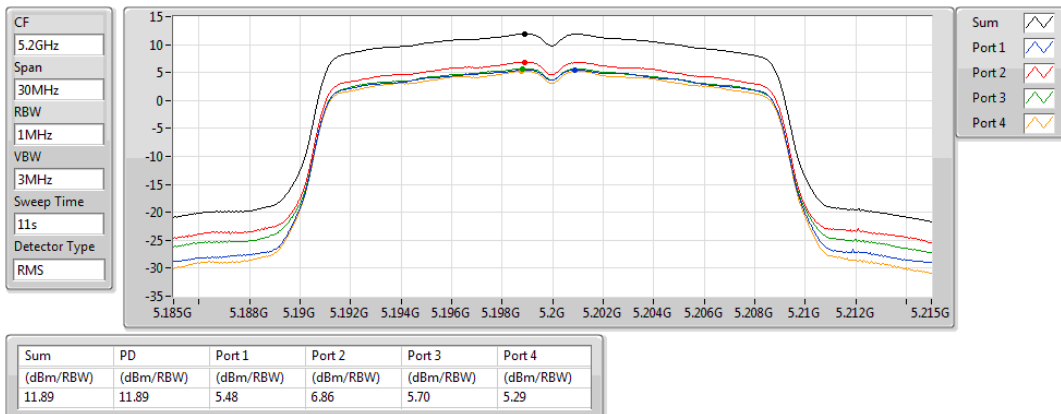
5180MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

PSD

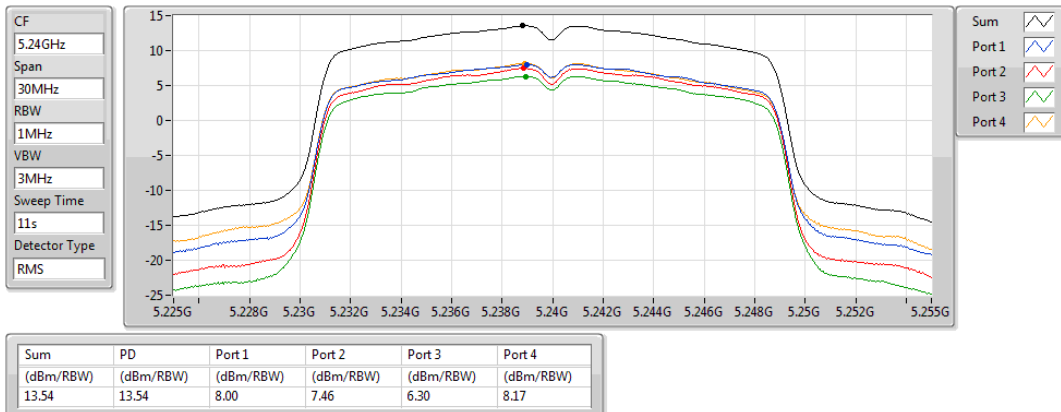
5200MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

PSD

5240MHz

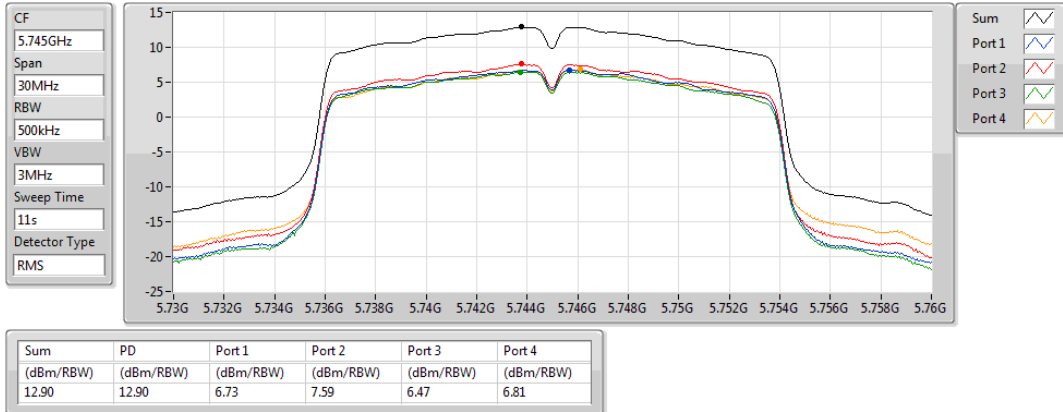




### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

PSD

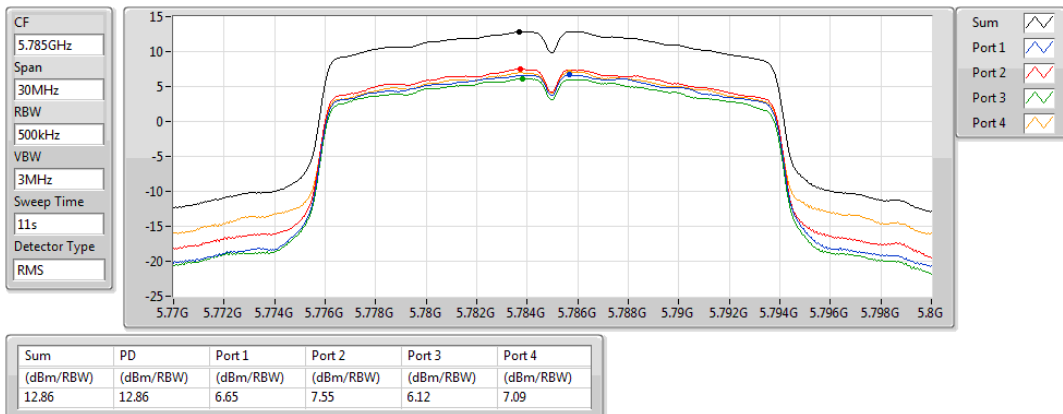
5745MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

PSD

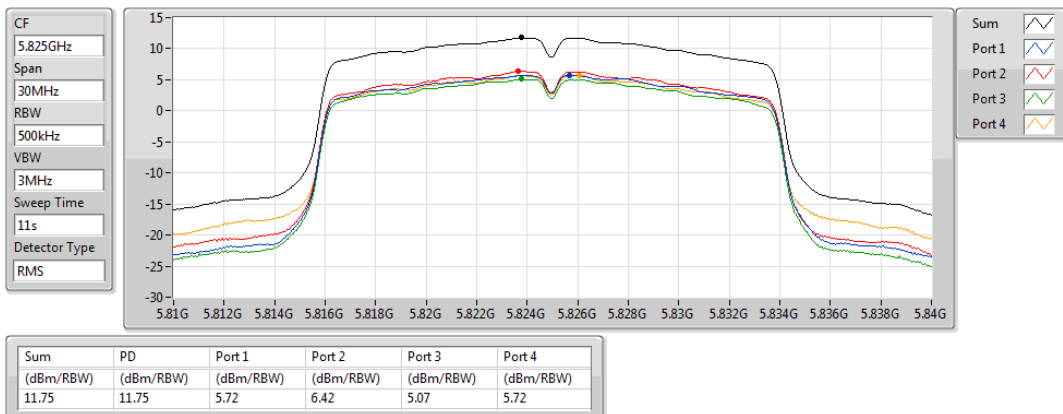
5785MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

PSD

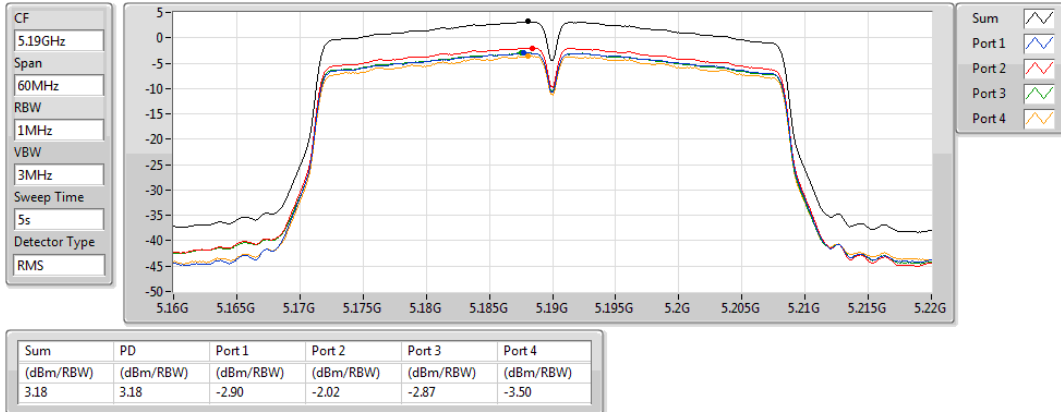
5825MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

PSD

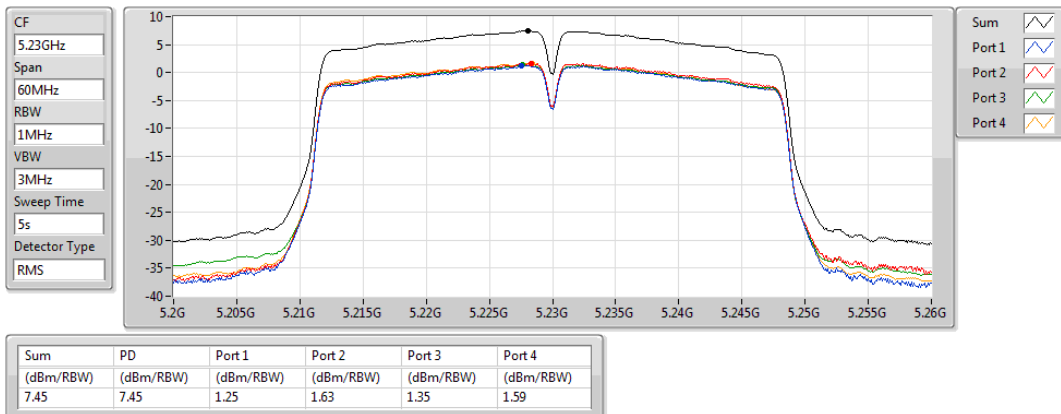
5190MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

PSD

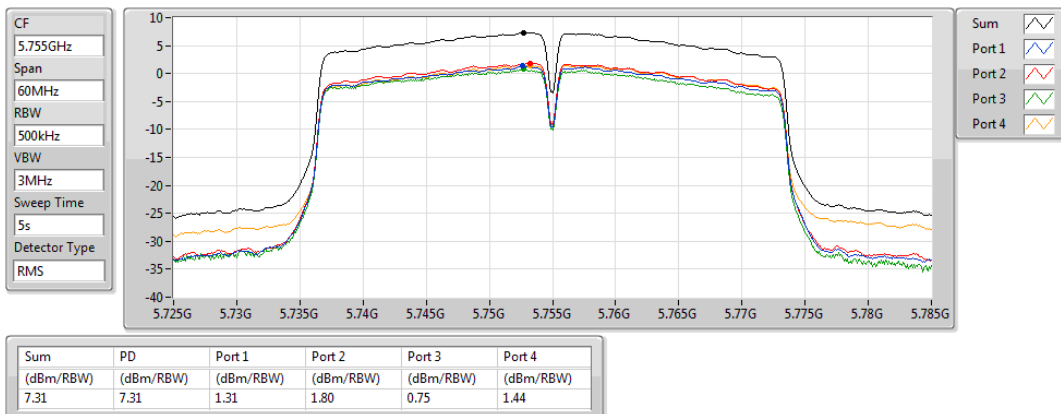
5230MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

PSD

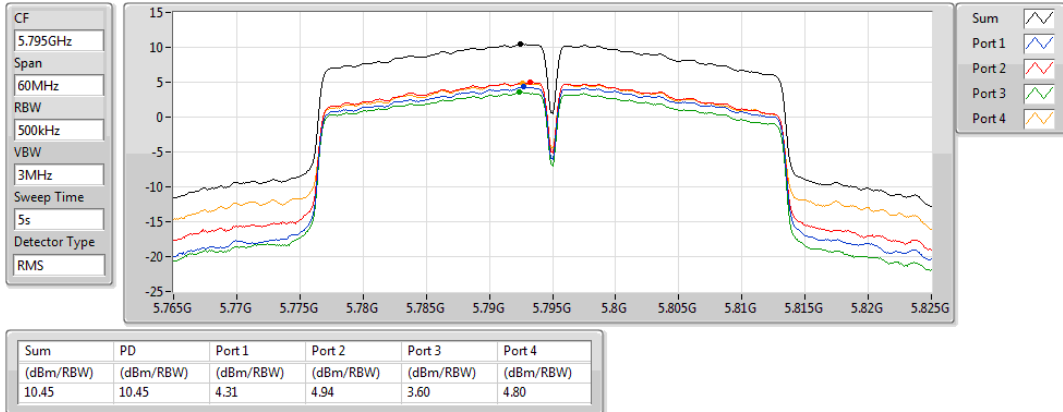
5755MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

PSD

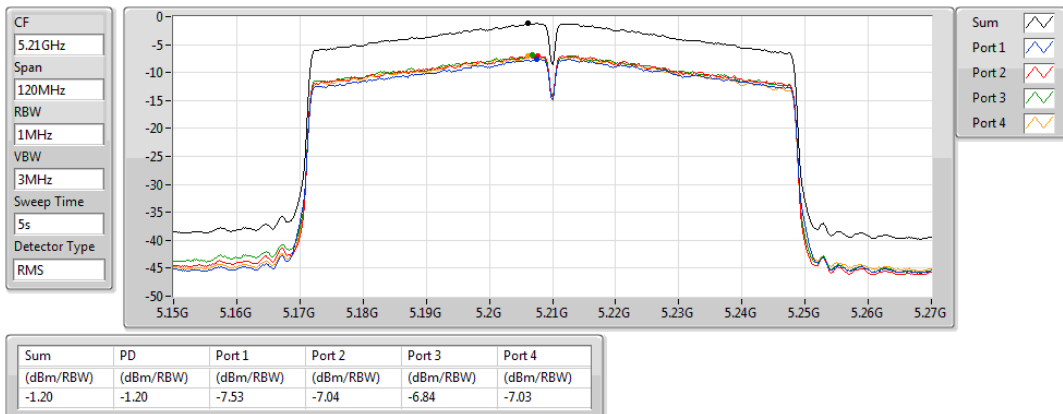
5795MHz



### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

PSD

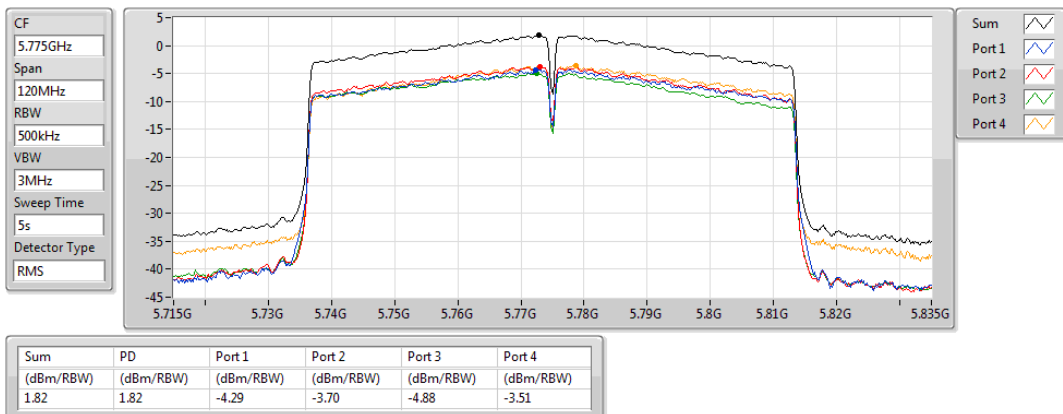
5210MHz



### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

PSD

5775MHz



**Non-beamforming mode: Configuration 2: RP362M model for Client****Summary**

| Mode                              | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|-----------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                      | -               | -                    |
| 802.11a_Nss1,(6Mbps)_4TX          | 8.64            | 16.89                |
| 802.11ac<br>VHT20_Nss1,(MCS0)_4TX | 8.64            | 16.89                |
| 802.11ac<br>VHT40_Nss1,(MCS0)_4TX | 7.45            | 15.70                |
| 802.11ac<br>VHT80_Nss1,(MCS0)_4TX | -1.2            | 7.05                 |

**RBW** =1MHz

## Result

| Mode                               | Result | DG<br>(dBi) | Port 1<br>(dBm/<br>RBW) | Port 2<br>(dBm/<br>RBW) | Port 3<br>(dBm/<br>RBW) | Port 4<br>(dBm/<br>RBW) | PD<br>(dBm/<br>RBW) | PD<br>Limit<br>(dBm/<br>RBW) | EIRP<br>PD<br>(dBm/<br>RBW) | EIRP<br>PD<br>Limit<br>(dBm/<br>RBW) |
|------------------------------------|--------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|------------------------------|-----------------------------|--------------------------------------|
| 802.11a_<br>Nss1,(6Mbps)_4TX       | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5180MHz                            | Pass   | 8.25        | 2.78                    | 3.65                    | 2.43                    | 1.49                    | 8.64                | 8.75                         | 16.89                       | 17.00                                |
| 5200MHz                            | Pass   | 8.25        | 2.52                    | 3.41                    | 2.37                    | 1.28                    | 8.45                | 8.75                         | 16.70                       | 17.00                                |
| 5240MHz                            | Pass   | 8.25        | 2.24                    | 2.57                    | 2.6                     | 2                       | 8.34                | 8.75                         | 16.59                       | 17.00                                |
| 802.11ac VHT20_<br>Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5180MHz                            | Pass   | 8.25        | 2.02                    | 3.41                    | 2.23                    | 1.49                    | 8.29                | 8.75                         | 16.54                       | 17.00                                |
| 5200MHz                            | Pass   | 8.25        | 2.42                    | 3.56                    | 2.52                    | 1.75                    | 8.60                | 8.75                         | 16.85                       | 17.00                                |
| 5240MHz                            | Pass   | 8.25        | 2.39                    | 2.94                    | 2.82                    | 2.52                    | 8.64                | 8.75                         | 16.89                       | 17.00                                |
| 802.11ac VHT40_<br>Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5190MHz                            | Pass   | 8.25        | -2.9                    | -2.02                   | -2.87                   | -3.5                    | 3.18                | 8.75                         | 11.43                       | 17.00                                |
| 5230MHz                            | Pass   | 8.25        | 1.25                    | 1.63                    | 1.35                    | 1.59                    | 7.45                | 8.75                         | 15.70                       | 17.00                                |
| 802.11ac VHT80_<br>Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5210MHz                            | Pass   | 8.25        | -7.53                   | -7.04                   | -6.84                   | -7.03                   | -1.20               | 8.75                         | 7.05                        | 17.00                                |

**RBW** = 1MHz

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

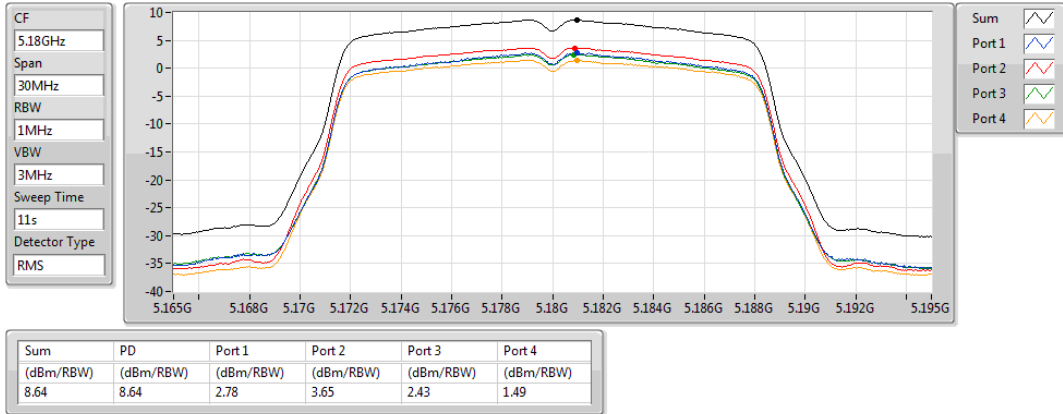
**DG** = Directional Gain= $10 * \log((10^{2.03/20} + 10^{2.24/20} + 10^{2.35/20} + 10^{2.29/20})^2/3) = 8.25 \text{ dBi} > 6 \text{ dBi}$

Limit shall be reduced to 11 dBm – ( 8.25 dBi – 6 dBi) =8.75 dBm

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

PSD

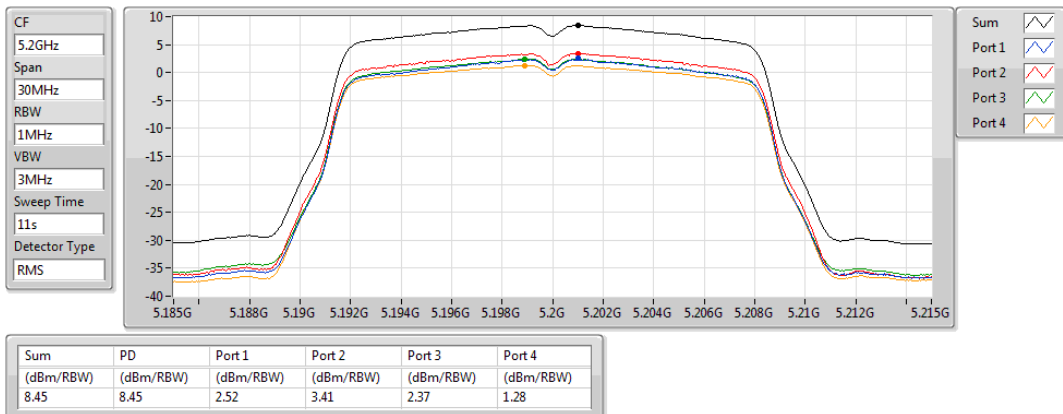
5180MHz



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

PSD

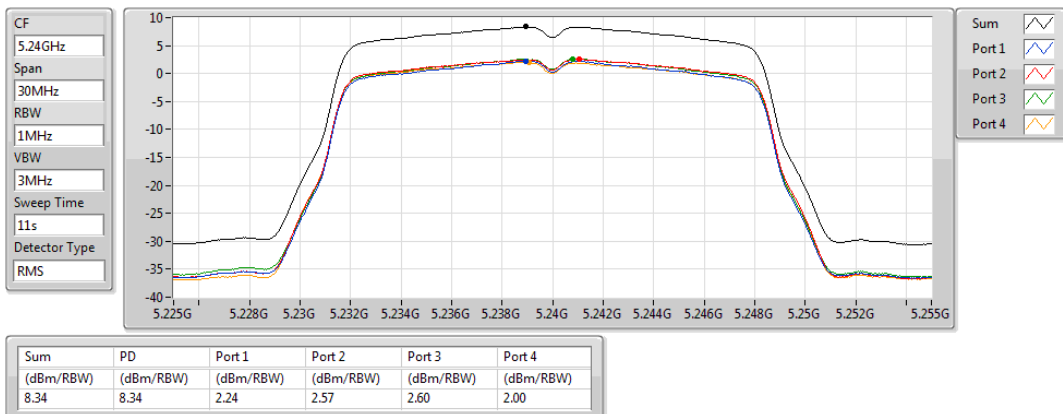
5200MHz



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

PSD

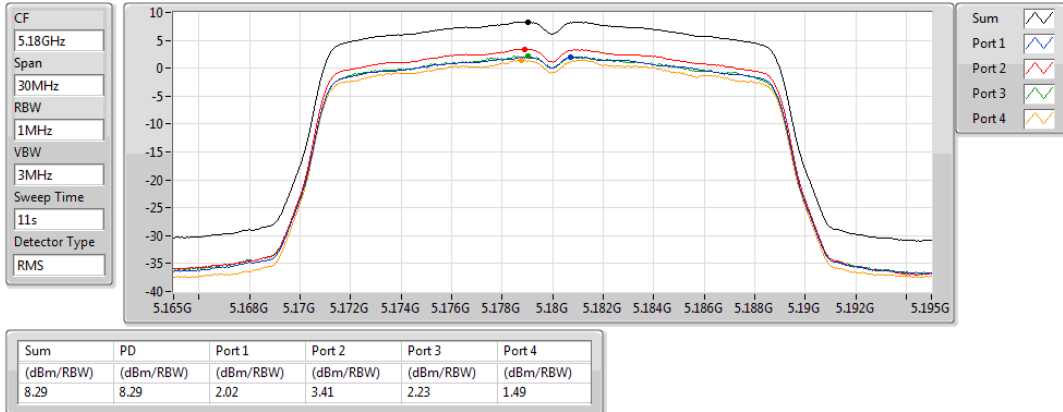
5240MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

PSD

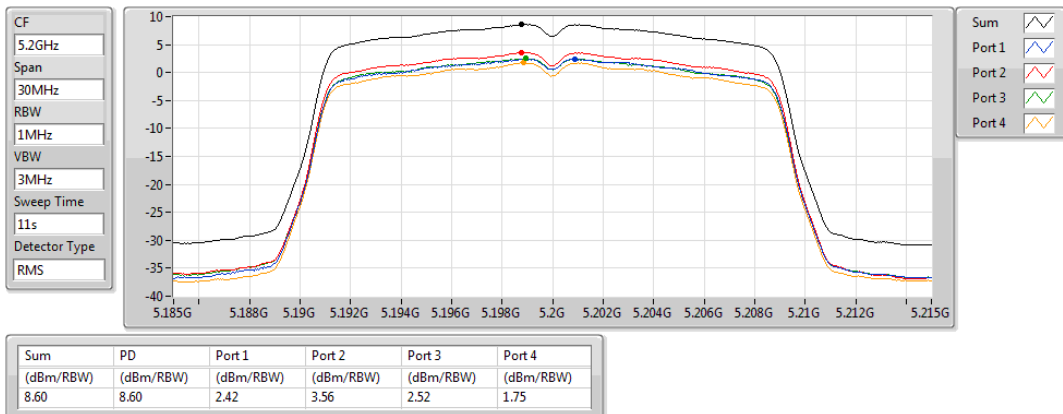
5180MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

PSD

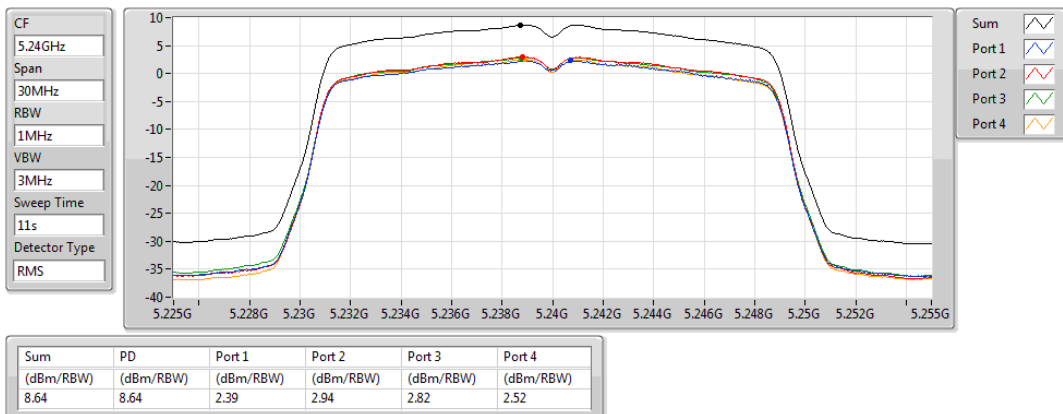
5200MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

PSD

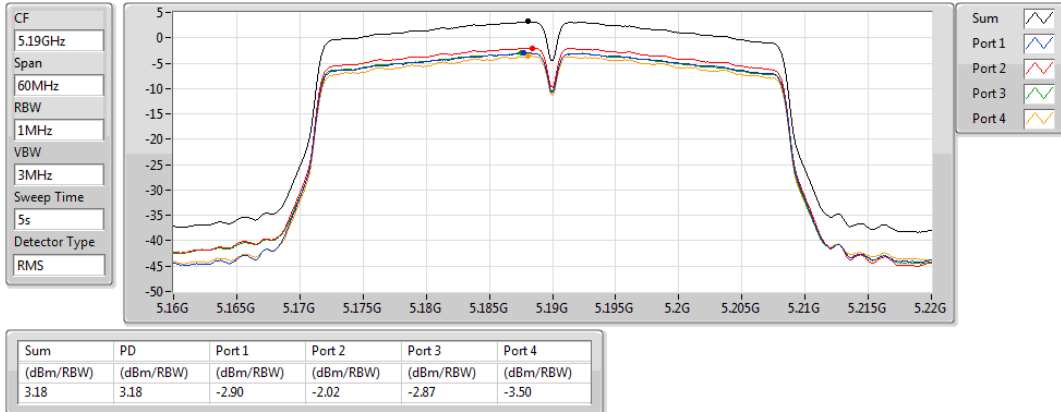
5240MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

PSD

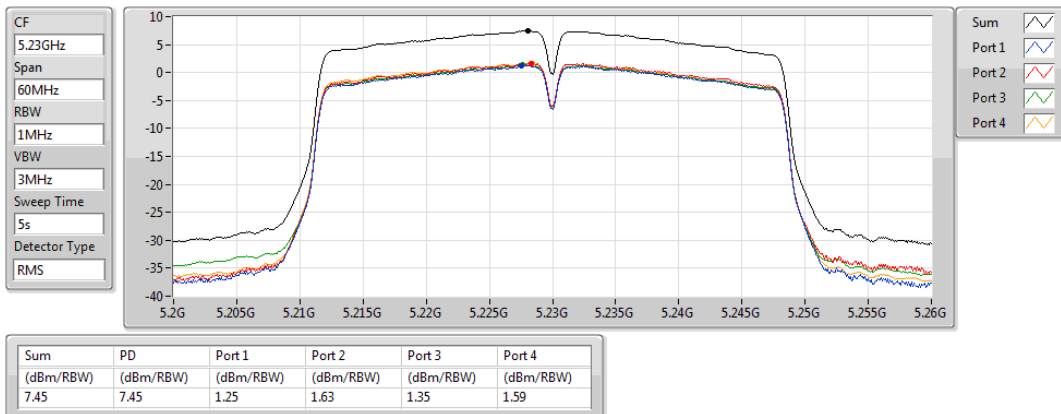
5190MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

PSD

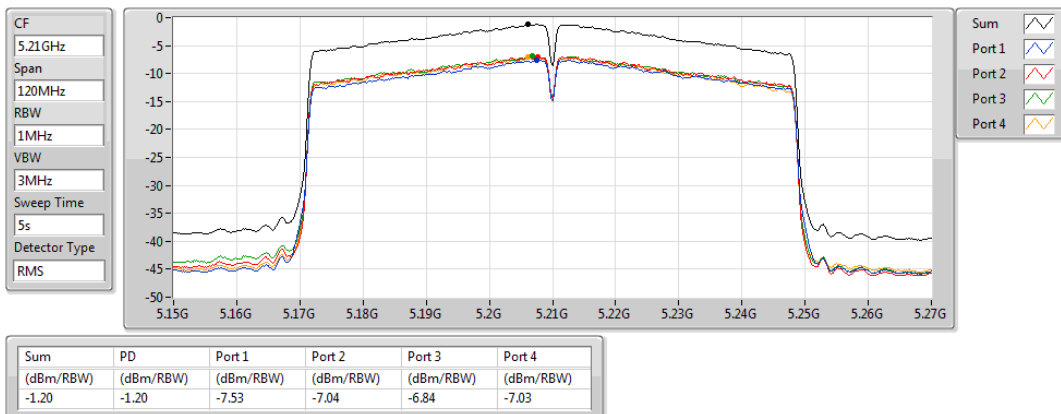
5230MHz



### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

PSD

5210MHz





### Beamforming mode: Configuration 1: IP3421M model for indoor AP

#### Summary

| Mode                                 | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|--------------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                         | -               | -                    |
| 802.11ac<br>VHT20-BF_Nss1,(MCS0)_4TX | 13.66           | 21.91                |
| 802.11ac<br>VHT40-BF_Nss1,(MCS0)_4TX | 7.75            | 16.00                |
| 802.11ac<br>VHT80-BF_Nss1,(MCS0)_4TX | -3.32           | 4.93                 |
| 5.725-5.85GHz                        | -               | -                    |
| 802.11ac<br>VHT20-BF_Nss1,(MCS0)_4TX | 13.47           | 22.04                |
| 802.11ac<br>VHT40-BF_Nss1,(MCS0)_4TX | 10.47           | 19.04                |
| 802.11ac<br>VHT80-BF_Nss1,(MCS0)_4TX | -0.02           | 8.55                 |

**RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

## Result

| Mode                                  | Result | DG<br>(dBi) | Port 1<br>(dBm/<br>RBW) | Port 2<br>(dBm/<br>RBW) | Port 3<br>(dBm/<br>RBW) | Port 4<br>(dBm/<br>RBW) | PD<br>(dBm/<br>RBW) | PD<br>Limit<br>(dBm/<br>RBW) | EIRP<br>PD<br>(dBm/<br>RBW) | EIRP<br>PD<br>Limit<br>(dBm/<br>RBW) |
|---------------------------------------|--------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|------------------------------|-----------------------------|--------------------------------------|
| 802.11ac VHT20-BF_<br>Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5180MHz                               | Pass   | 8.25        | 1.98                    | 3.31                    | 2.07                    | 1.30                    | 7.81                | 14.75                        | 16.06                       | 23.00                                |
| 5200MHz                               | Pass   | 8.25        | 6.81                    | 6.62                    | 6.16                    | 5.42                    | 11.56               | 14.75                        | 19.81                       | 23.00                                |
| 5240MHz                               | Pass   | 8.25        | 9.12                    | 7.32                    | 6.69                    | 8.93                    | 13.66               | 14.75                        | 21.91                       | 23.00                                |
| 5745MHz                               | Pass   | 8.57        | 7.63                    | 8.45                    | 6.53                    | 8.53                    | 12.97               | 27.43                        | 21.54                       | 36.00                                |
| 5785MHz                               | Pass   | 8.57        | 8.16                    | 8.33                    | 7.24                    | 8.26                    | 13.38               | 27.43                        | 21.95                       | 36.00                                |
| 5825MHz                               | Pass   | 8.57        | 8.74                    | 8.40                    | 6.79                    | 8.60                    | 13.47               | 27.43                        | 22.04                       | 36.00                                |
| 802.11ac VHT40-BF_<br>Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5190MHz                               | Pass   | 8.25        | -3.40                   | -2.56                   | -3.60                   | -4.74                   | 2.27                | 14.75                        | 10.52                       | 23.00                                |
| 5230MHz                               | Pass   | 8.25        | 1.89                    | 2.48                    | 2.04                    | 2.51                    | 7.75                | 14.75                        | 16.00                       | 23.00                                |
| 5755MHz                               | Pass   | 8.57        | 0.89                    | 1.46                    | 0.64                    | 1.68                    | 7.08                | 27.43                        | 15.65                       | 36.00                                |
| 5795MHz                               | Pass   | 8.57        | 4.52                    | 5.23                    | 3.73                    | 6.13                    | 10.47               | 27.43                        | 19.04                       | 36.00                                |
| 802.11ac VHT80-BF_<br>Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5210MHz                               | Pass   | 8.25        | -8.94                   | -8.67                   | -9.73                   | -8.80                   | -3.32               | 14.75                        | 4.93                        | 23.00                                |
| 5775MHz                               | Pass   | 8.57        | -5.40                   | -4.98                   | -5.18                   | -4.97                   | -0.02               | 27.43                        | 8.55                        | 36.00                                |

**RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

For 5.15 ~ 5.25 GHz

**DG** = Directional Gain= $10 * \log((10^{2.03/20} + 10^{2.24/20} + 10^{2.35/20} + 10^{2.29/20})^2/3)$  = 8.25 dBi > 6 dBi

Limit shall be reduced to 17 dBm – ( 8.25 dBi – 6 dBi) = 14.75 dBm

For 5.725 ~ 5.85 GHz

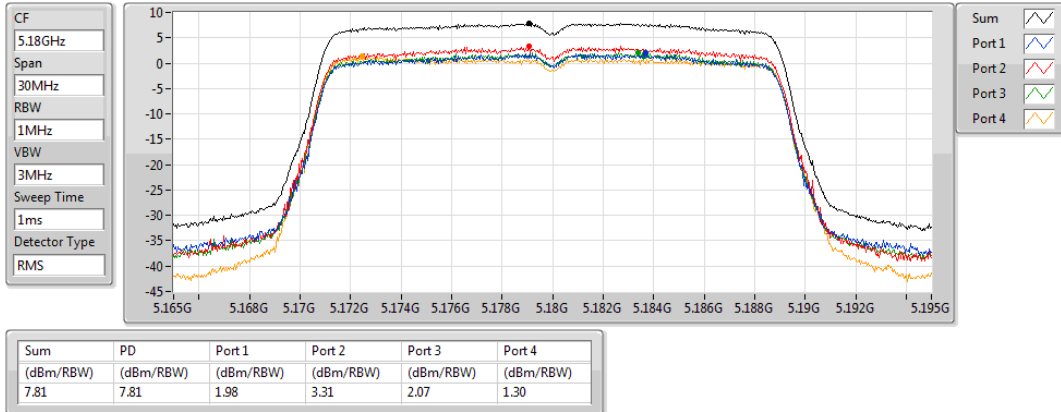
**DG** = Directional Gain= $10 * \log((10^{2.45/20} + 10^{2.59/20} + 10^{2.5/20} + 10^{2.66/20})^2/3)$  = 8.57 dBi > 6 dBi

Limit shall be reduced to 30 dBm – ( 8.57 dBi – 6 dBi) = 27.43 dBm

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

PSD

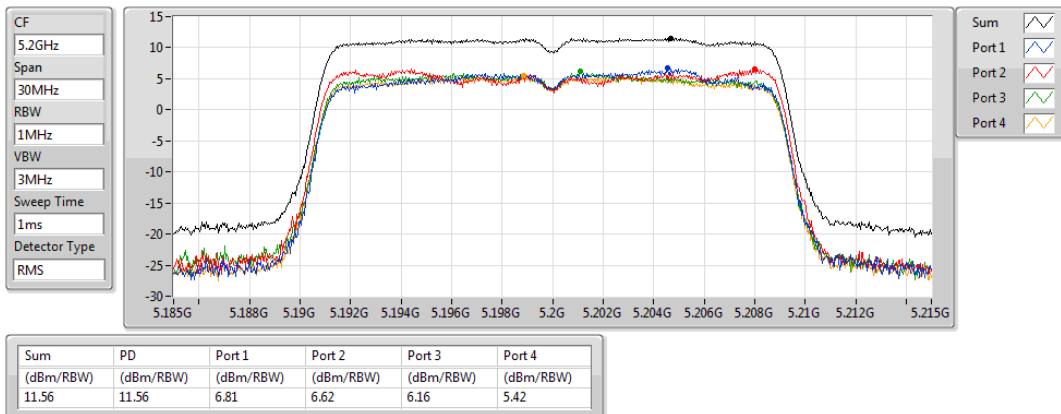
5180MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

PSD

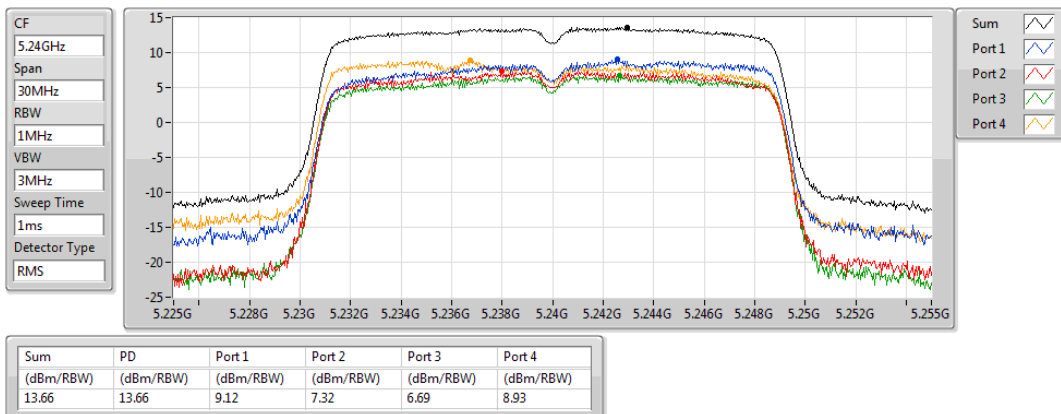
5200MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

PSD

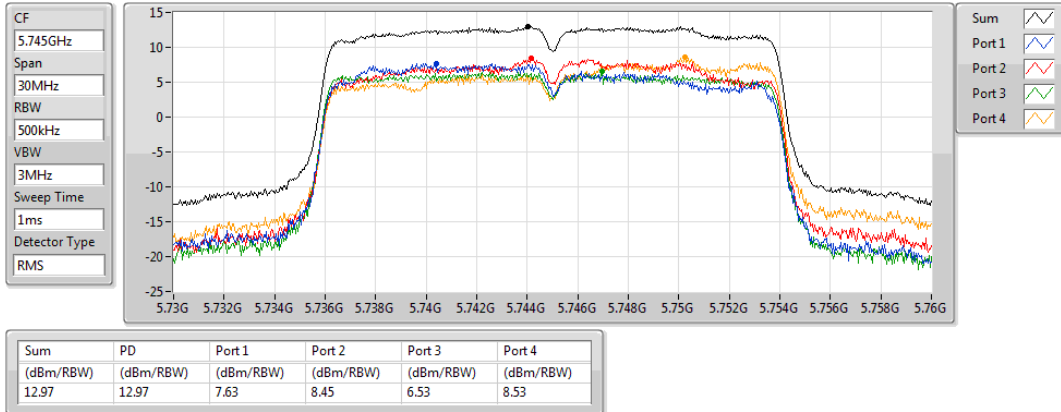
5240MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

PSD

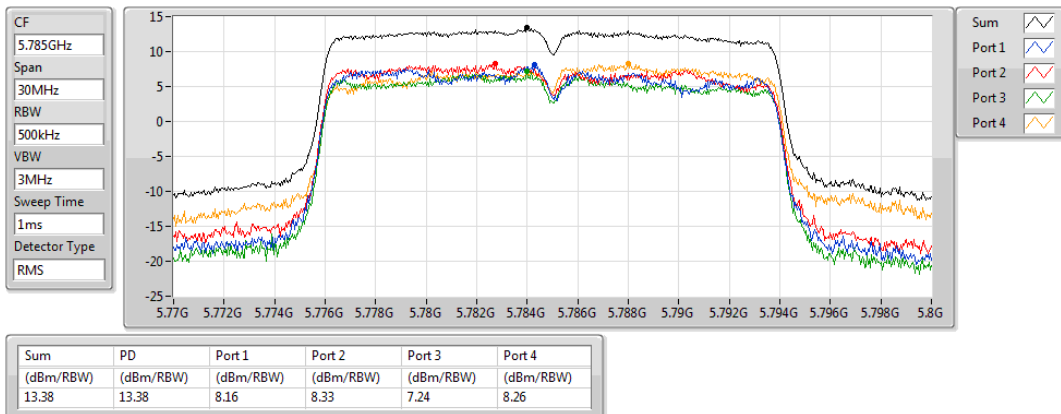
5745MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

PSD

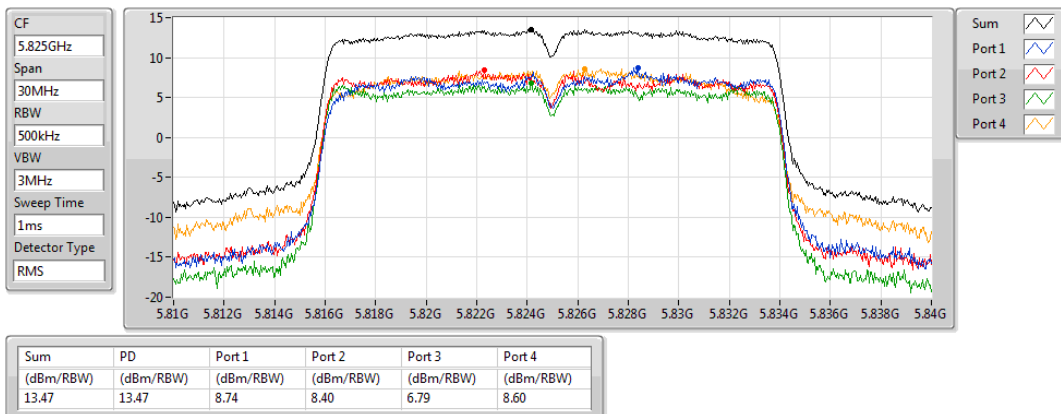
5785MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

PSD

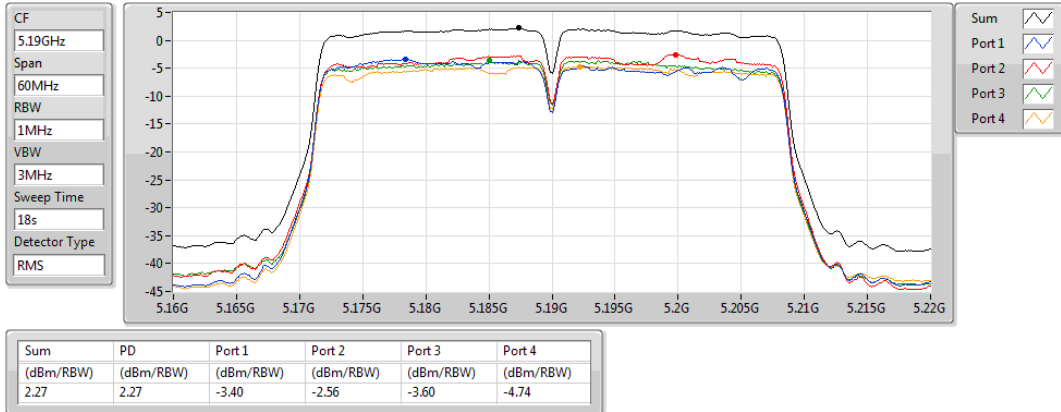
5825MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

PSD

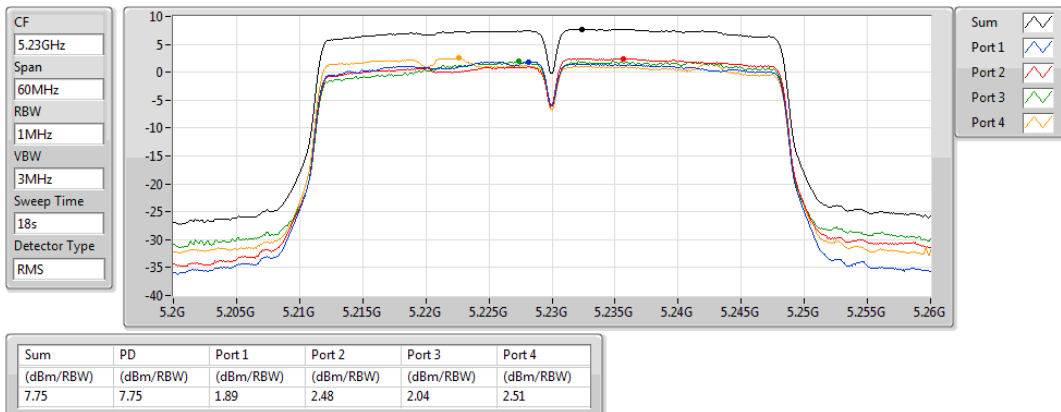
5190MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

PSD

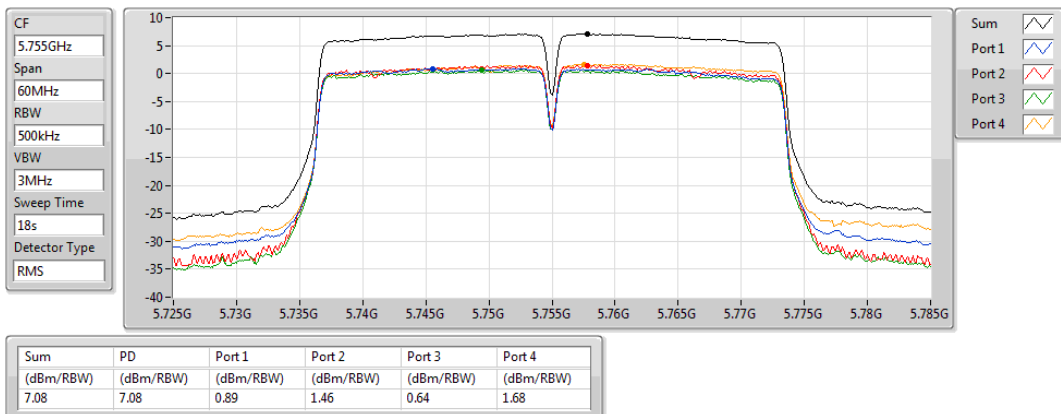
5230MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

PSD

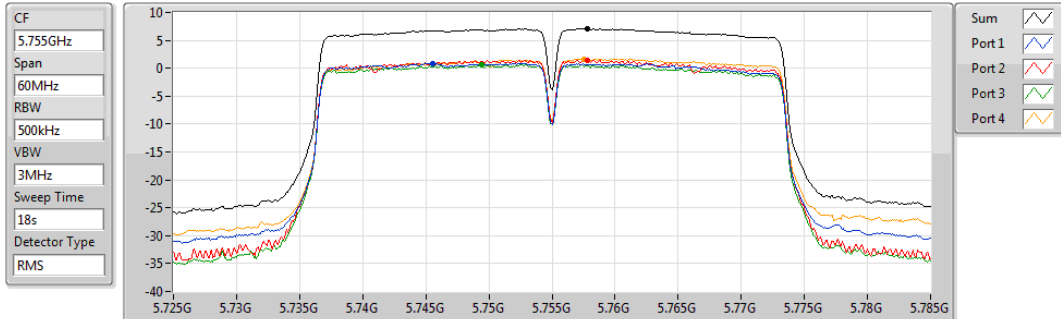
5755MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

PSD

5755MHz

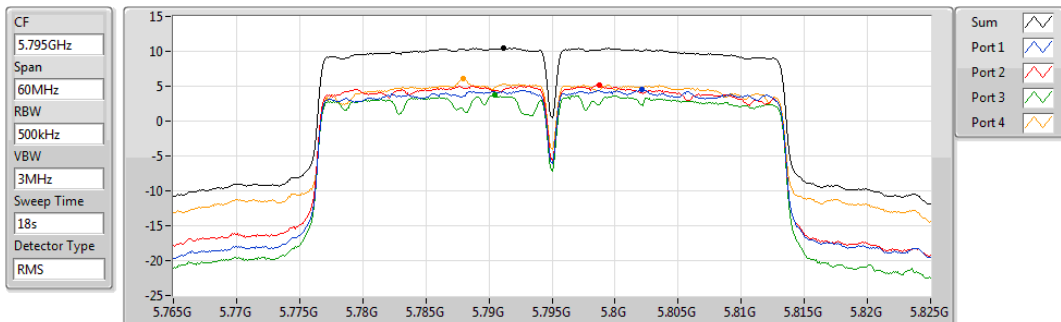


| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.08      | 7.08      | 0.89      | 1.46      | 0.64      | 1.68      |

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

PSD

5795MHz

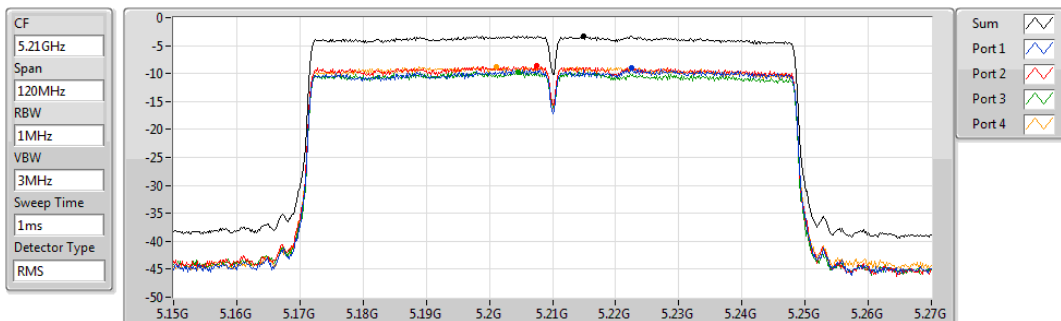


| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.47     | 10.47     | 4.52      | 5.23      | 3.73      | 6.13      |

### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

PSD

5210MHz

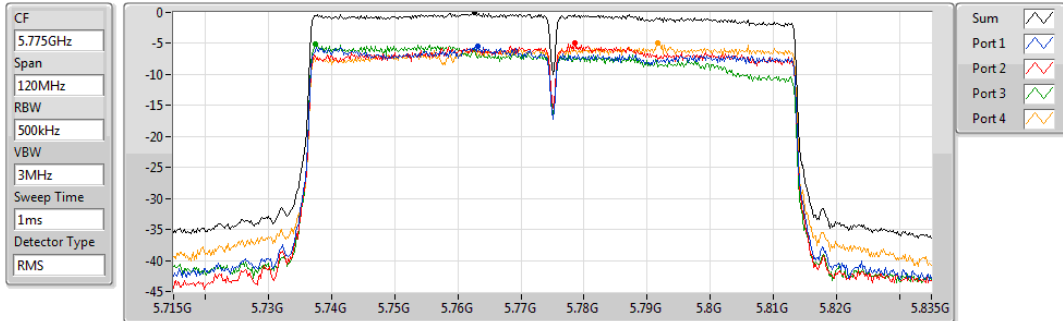


| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.32     | -3.32     | -8.94     | -8.67     | -9.73     | -8.80     |

# 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

PSD

5775MHz



| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.02     | -0.02     | -5.40     | -4.98     | -5.18     | -4.97     |

### Beamforming mode: Configuration 2: RP362M model for Client

#### Summary

| Mode                                 | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|--------------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                         | -               | -                    |
| 802.11ac<br>VHT20-BF_Nss1,(MCS0)_4TX | 8.54            | 16.79                |
| 802.11ac<br>VHT40-BF_Nss1,(MCS0)_4TX | 6.64            | 14.89                |
| 802.11ac<br>VHT80-BF_Nss1,(MCS0)_4TX | -3.32           | 4.93                 |

RBW = 1MHz

#### Result

| Mode                              | Result | DG<br>(dBi) | Port 1<br>(dBm/<br>RBW) | Port 2<br>(dBm/<br>RBW) | Port 3<br>(dBm/<br>RBW) | Port 4<br>(dBm/<br>RBW) | PD<br>(dBm/<br>RBW) | PD<br>Limit<br>(dBm/<br>RBW) | EIRP<br>PD<br>(dBm/<br>RBW) | EIRP<br>PD<br>Limit<br>(dBm/<br>RBW) |
|-----------------------------------|--------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|------------------------------|-----------------------------|--------------------------------------|
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5180MHz                           | Pass   | 8.25        | 1.98                    | 3.31                    | 2.07                    | 1.3                     | 7.81                | 8.75                         | 16.06                       | 17.00                                |
| 5200MHz                           | Pass   | 8.25        | 2.49                    | 3.59                    | 2.42                    | 2.45                    | 8.54                | 8.75                         | 16.79                       | 17.00                                |
| 5240MHz                           | Pass   | 8.25        | 2.08                    | 2.56                    | 2.5                     | 2.99                    | 8.31                | 8.75                         | 16.56                       | 17.00                                |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5190MHz                           | Pass   | 8.25        | -3.4                    | -2.56                   | -3.6                    | -4.74                   | 2.27                | 8.75                         | 10.52                       | 17.00                                |
| 5230MHz                           | Pass   | 8.25        | 0.51                    | 1.04                    | 0.62                    | 0.94                    | 6.64                | 8.75                         | 14.89                       | 17.00                                |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | -      | -           | -                       | -                       | -                       | -                       | -                   | -                            | -                           | -                                    |
| 5210MHz                           | Pass   | 8.25        | -8.94                   | -8.67                   | -9.73                   | -8.8                    | -3.32               | 8.75                         | 4.93                        | 17.00                                |

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

DG = Directional Gain =  $10 * \log((10^{2.03/20} + 10^{2.24/20} + 10^{2.35/20} + 10^{2.29/20})^2 / 3) = 8.25 \text{ dBi} > 6 \text{ dBi}$

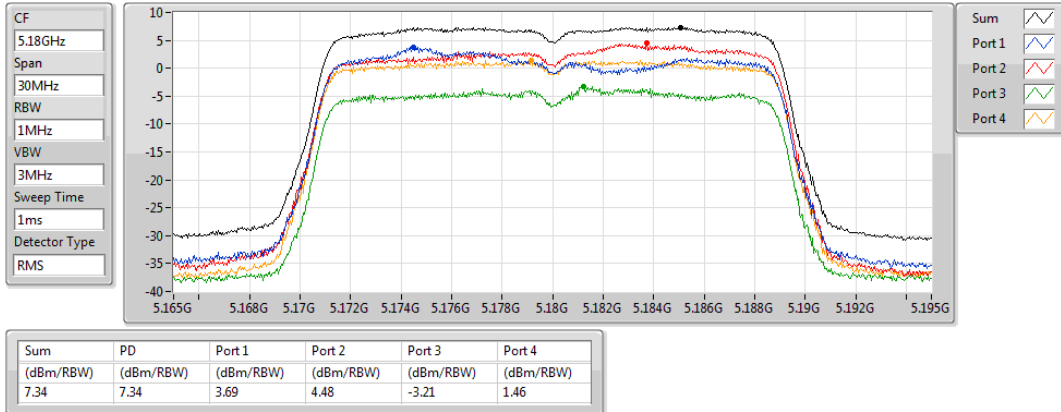
Limit shall be reduced to 11 dBm - ( 8.25 dBi - 6 dBi ) = 8.75 dBm



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

PSD

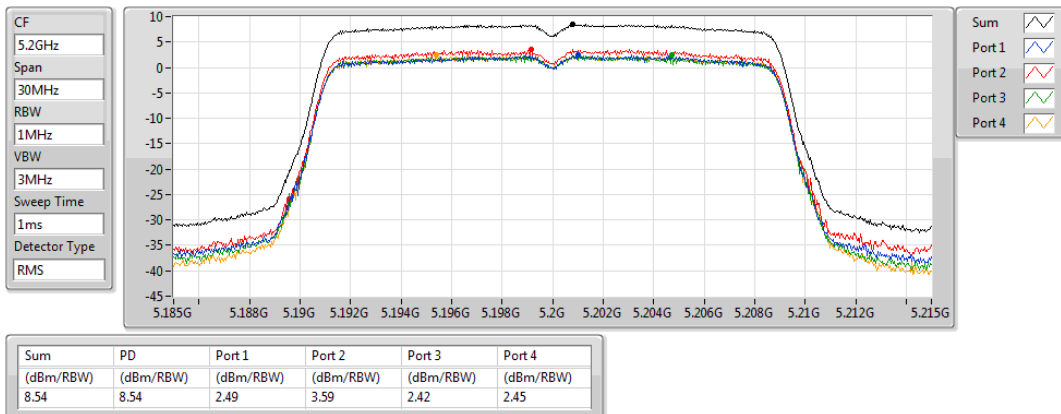
5180MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

PSD

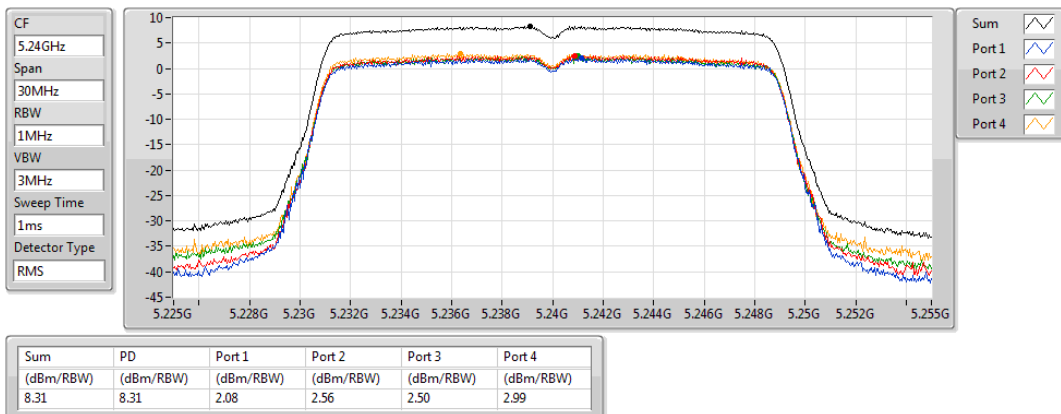
5200MHz



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

PSD

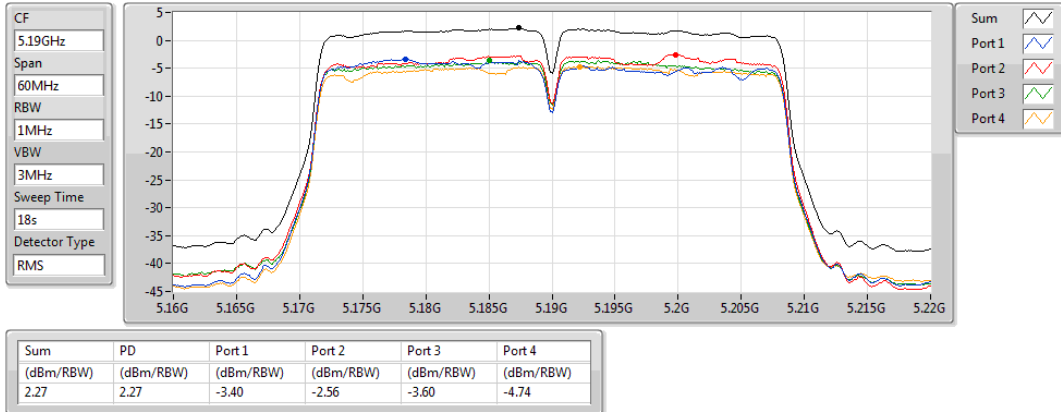
5240MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

PSD

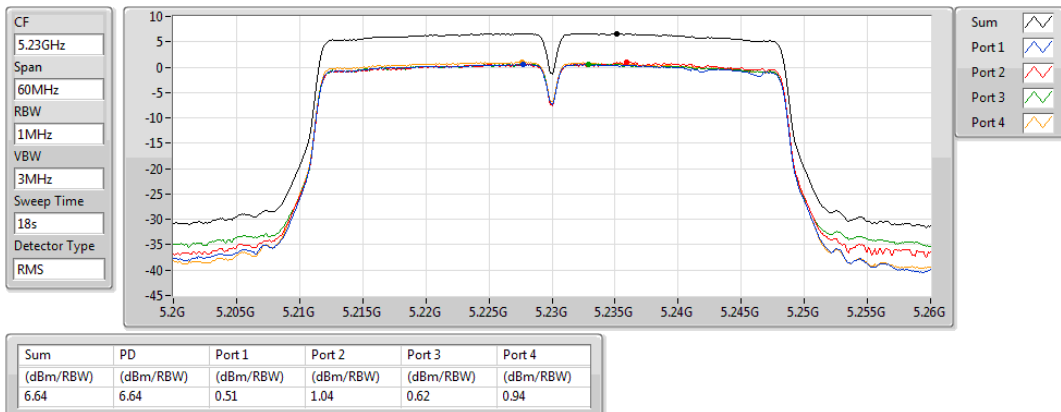
5190MHz



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

PSD

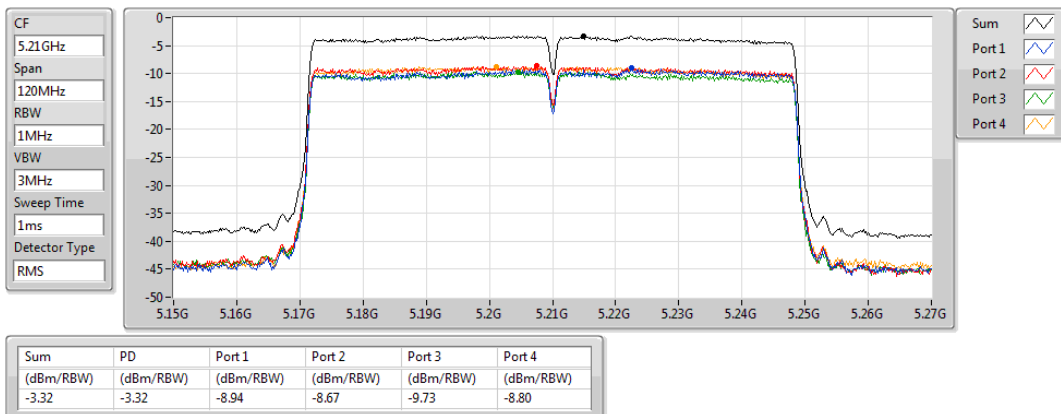
5230MHz



### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

PSD

5210MHz



### 3.5 Transmitter Radiated and Band Edge Emissions

#### 3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

| 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:**  
Qusai-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.

| Un-restricted band emissions above 1GHz Limit |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Band                                | Limit                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5.15 - 5.25 GHz                               | e.i.r.p. -27 dBm [68.2 dBuV/m@3m]                                                                                                                                                                                                                                                                                                                                                                                               |
| 5.725 - 5.850 GHz                             | All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |

**Note 1:** Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

### 3.5.2 Test Procedures

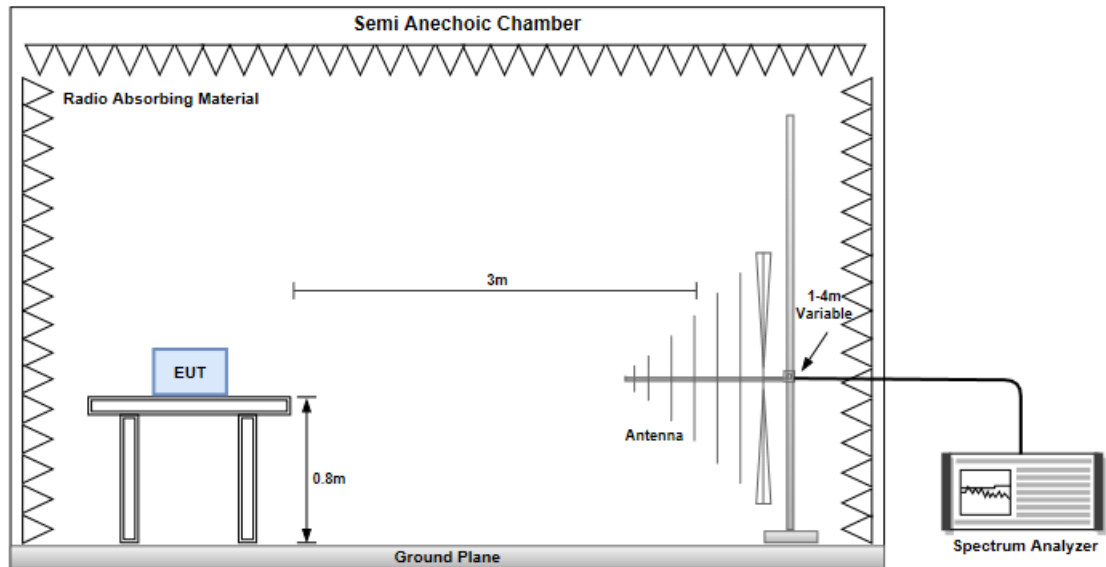
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

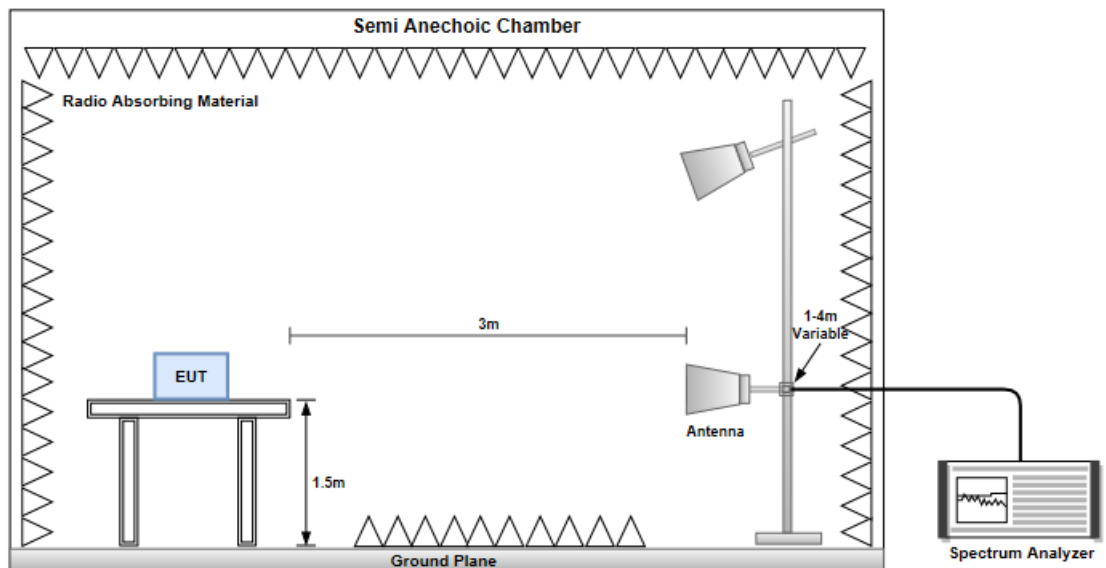
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz



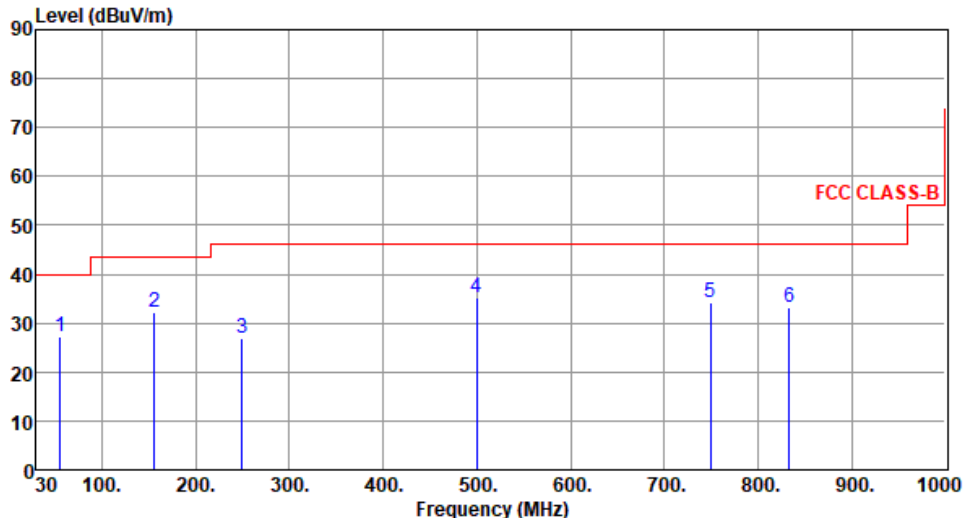
#### Radiated Emissions above 1 GHz



## Non- beamforming mode

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

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5240 |
| Polarization | Horizontal | Test Configuration | 1    |

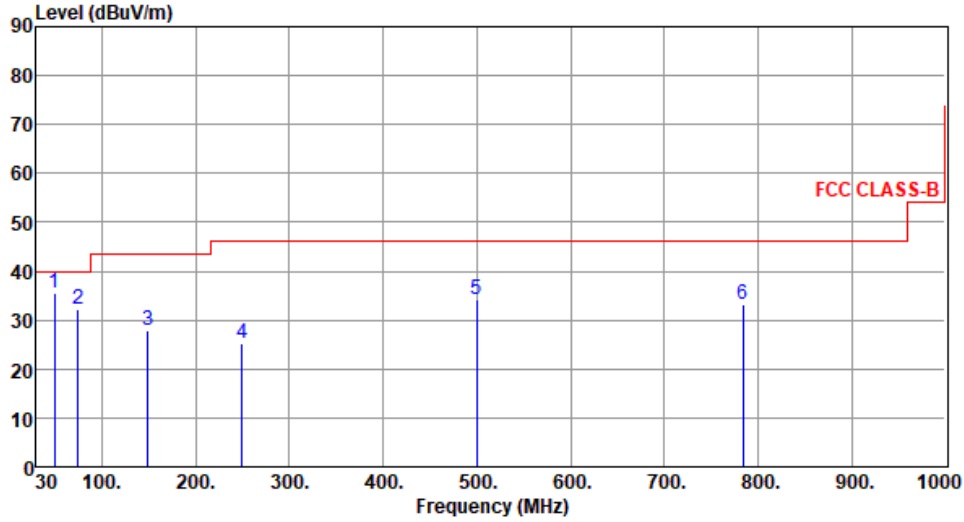
  


The graph displays the emission level in dBuV/m on the y-axis (0 to 90) against frequency in MHz on the x-axis (30 to 1000). A red line represents the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 200 MHz, and 55 dBuV/m from 200 to 1000 MHz. Six blue vertical lines indicate measured peaks at 55.22, 156.10, 249.22, 499.48, 749.74, and 833.16 MHz, labeled 1 through 6 respectively.

|   | 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 | 55.22        | 27.23                       | 40.00           | -12.77       | 36.14                 | -8.91        | Peak   | ---               | ---                  |
| 2 | 156.10       | 32.19                       | 43.50           | -11.31       | 40.73                 | -8.54        | Peak   | ---               | ---                  |
| 3 | 249.22       | 26.92                       | 46.00           | -19.08       | 36.89                 | -9.97        | Peak   | ---               | ---                  |
| 4 | 499.48       | 35.34                       | 46.00           | -10.66       | 38.39                 | -3.05        | Peak   | ---               | ---                  |
| 5 | 749.74       | 34.22                       | 46.00           | -11.78       | 31.76                 | 2.46         | Peak   | ---               | ---                  |
| 6 | 833.16       | 33.11                       | 46.00           | -12.89       | 29.80                 | 3.31         | 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.

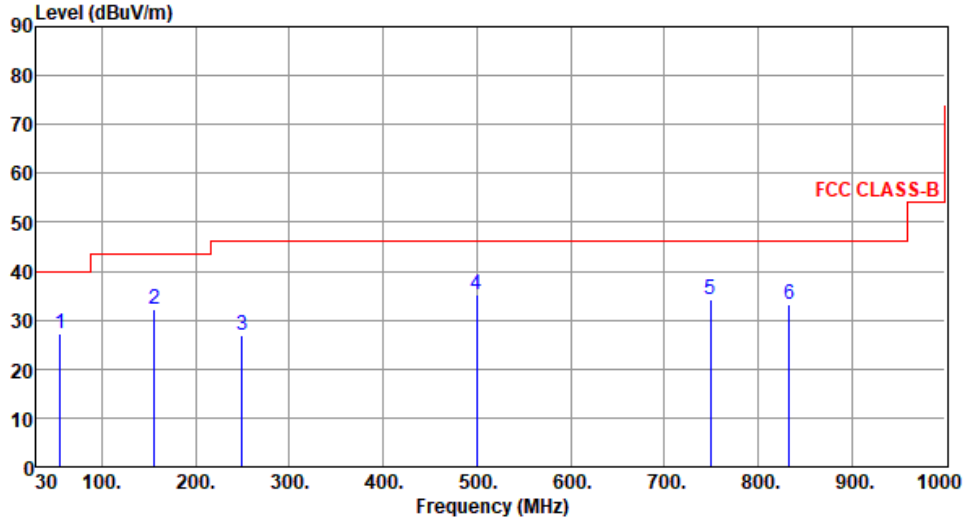
|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5240 |
| Polarization | Vertical | Test Configuration | 1    |

|   | 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 | 49.40        | 35.66                       | 40.00           | -4.34        | 44.24                 | -8.58        | Peak   | ---               | ---                  |
| 2 | 74.62        | 32.30                       | 40.00           | -7.70        | 44.18                 | -11.88       | Peak   | ---               | ---                  |
| 3 | 149.31       | 27.96                       | 43.50           | -15.54       | 36.71                 | -8.75        | Peak   | ---               | ---                  |
| 4 | 249.22       | 25.24                       | 46.00           | -20.76       | 35.21                 | -9.97        | Peak   | ---               | ---                  |
| 5 | 499.48       | 34.25                       | 46.00           | -11.75       | 37.30                 | -3.05        | Peak   | ---               | ---                  |
| 6 | 783.69       | 33.32                       | 46.00           | -12.68       | 30.59                 | 2.73         | 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.

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5795 |
| Polarization | Horizontal | Test Configuration | 1    |

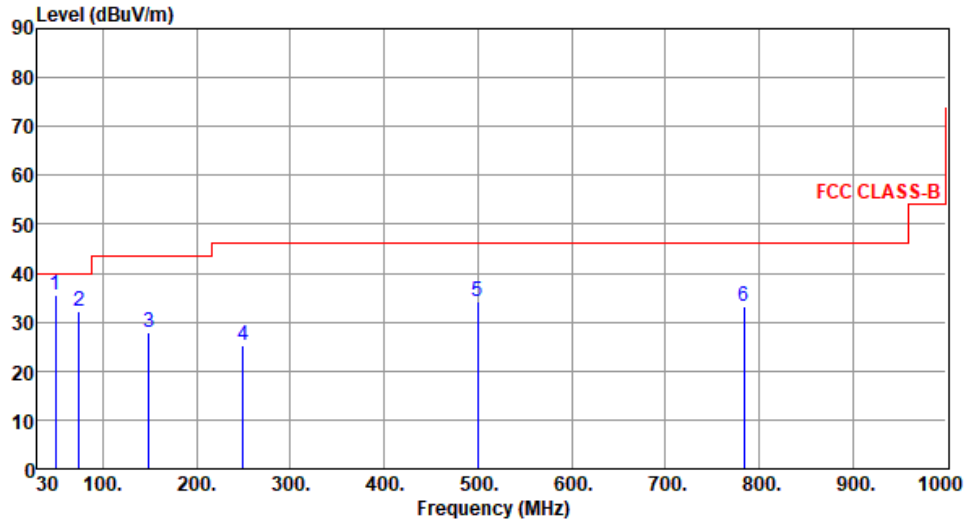
  


|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 55.33        | 27.19                       | 40.00           | -12.81       | 36.09                 | -8.90        | Peak   | ---               | ---                  |
| 2 | 156.26       | 32.28                       | 43.50           | -11.22       | 40.84                 | -8.56        | Peak   | ---               | ---                  |
| 3 | 249.31       | 26.84                       | 46.00           | -19.16       | 36.80                 | -9.96        | Peak   | ---               | ---                  |
| 4 | 499.51       | 35.28                       | 46.00           | -10.72       | 38.33                 | -3.05        | Peak   | ---               | ---                  |
| 5 | 749.69       | 34.17                       | 46.00           | -11.83       | 31.71                 | 2.46         | Peak   | ---               | ---                  |
| 6 | 833.16       | 33.28                       | 46.00           | -12.72       | 29.97                 | 3.31         | 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.



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5795 |
| Polarization | Vertical | Test Configuration | 1    |



|   | 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 | 49.35        | 35.57                       | 40.00           | -4.43        | 44.14                 | -8.57        | Peak   | ---               | ---                  |
| 2 | 74.59        | 32.25                       | 40.00           | -7.75        | 44.13                 | -11.88       | Peak   | ---               | ---                  |
| 3 | 149.29       | 27.76                       | 43.50           | -15.74       | 36.51                 | -8.75        | Peak   | ---               | ---                  |
| 4 | 249.22       | 25.34                       | 46.00           | -20.66       | 35.31                 | -9.97        | Peak   | ---               | ---                  |
| 5 | 499.58       | 34.36                       | 46.00           | -11.64       | 37.41                 | -3.05        | Peak   | ---               | ---                  |
| 6 | 783.69       | 33.25                       | 46.00           | -12.75       | 30.52                 | 2.73         | Peak   | ---               | ---                  |

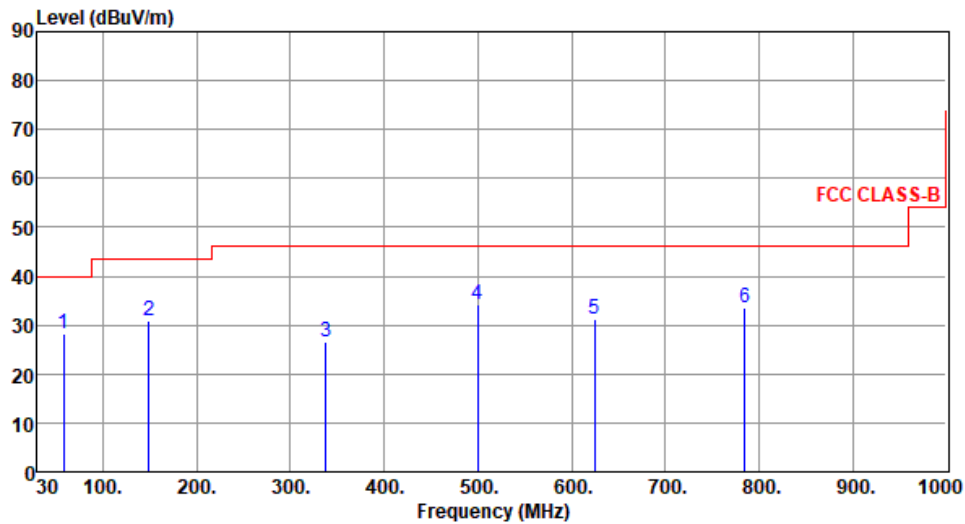
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*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.

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5240 |
| Polarization | Horizontal | Test Configuration | 2    |



|   | 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 | 58.13        | 28.30                       | 40.00           | -11.70       | 37.43                 | -9.13        | Peak   | ---               | ---                  |
| 2 | 149.31       | 30.82                       | 43.50           | -12.68       | 39.57                 | -8.75        | Peak   | ---               | ---                  |
| 3 | 337.49       | 26.59                       | 46.00           | -19.41       | 33.71                 | -7.12        | Peak   | ---               | ---                  |
| 4 | 499.48       | 34.32                       | 46.00           | -11.68       | 37.37                 | -3.05        | Peak   | ---               | ---                  |
| 5 | 624.61       | 31.31                       | 46.00           | -14.69       | 31.45                 | -0.14        | Peak   | ---               | ---                  |
| 6 | 784.66       | 33.64                       | 46.00           | -12.36       | 30.93                 | 2.71         | Peak   | ---               | ---                  |

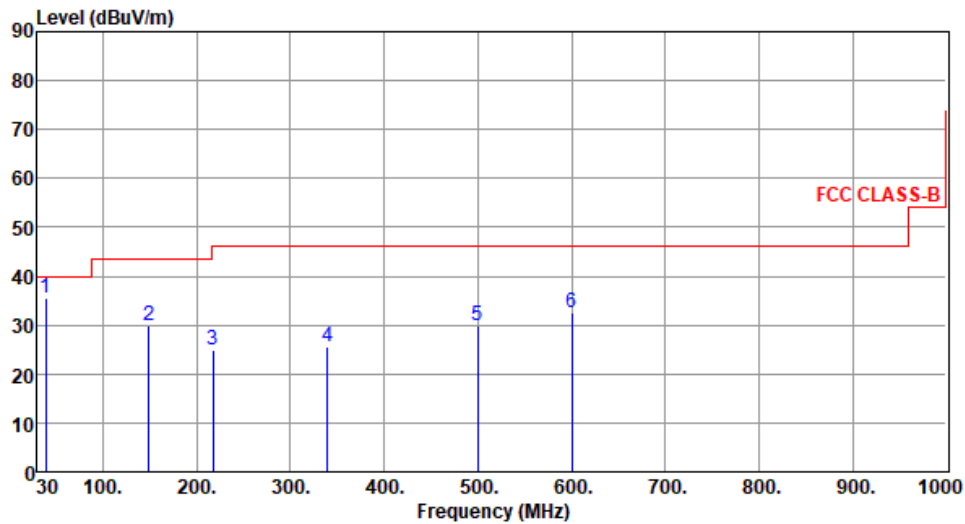
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5240 |
| Polarization | Vertical | Test Configuration | 2    |



|   | 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 | 38.73        | 35.57                       | 40.00           | -4.43        | 44.90                 | -9.33        | Peak   | ---               | ---                  |
| 2 | 149.31       | 30.03                       | 43.50           | -13.47       | 38.78                 | -8.75        | Peak   | ---               | ---                  |
| 3 | 217.21       | 25.01                       | 46.00           | -20.99       | 37.15                 | -12.14       | Peak   | ---               | ---                  |
| 4 | 339.43       | 25.51                       | 46.00           | -20.49       | 32.61                 | -7.10        | Peak   | ---               | ---                  |
| 5 | 499.48       | 30.00                       | 46.00           | -16.00       | 33.05                 | -3.05        | Peak   | ---               | ---                  |
| 6 | 600.36       | 32.41                       | 46.00           | -13.59       | 33.00                 | -0.59        | Peak   | ---               | ---                  |

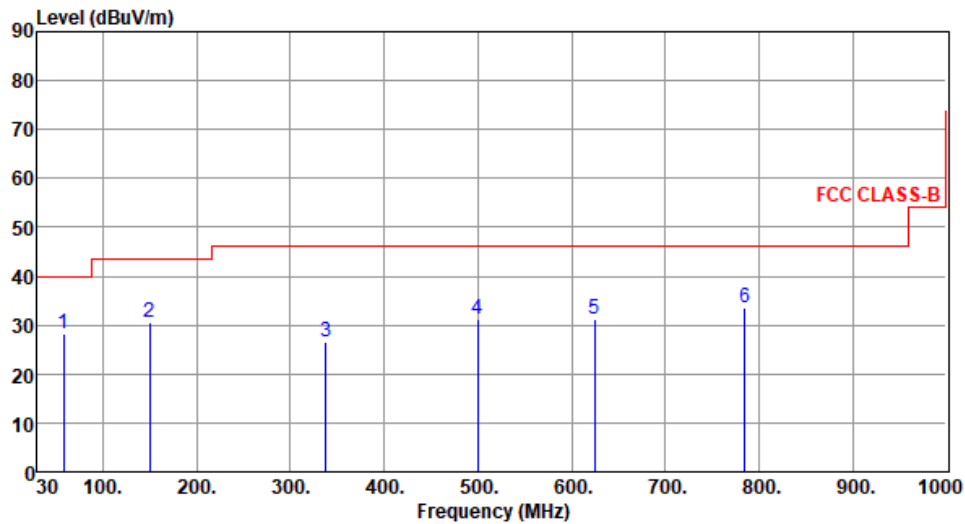
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*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.

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5795 |
| Polarization | Horizontal | Test Configuration | 2    |



|   | 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 | 58.22        | 28.31                       | 40.00           | -11.69       | 37.45                 | -9.14        | Peak   | ---               | ---                  |
| 2 | 149.46       | 30.65                       | 43.50           | -12.85       | 39.40                 | -8.75        | Peak   | ---               | ---                  |
| 3 | 337.51       | 26.47                       | 46.00           | -19.53       | 33.59                 | -7.12        | Peak   | ---               | ---                  |
| 4 | 499.48       | 31.28                       | 46.00           | -14.72       | 34.33                 | -3.05        | Peak   | ---               | ---                  |
| 5 | 624.59       | 31.24                       | 46.00           | -14.76       | 31.38                 | -0.14        | Peak   | ---               | ---                  |
| 6 | 784.58       | 33.54                       | 46.00           | -12.46       | 30.83                 | 2.71         | Peak   | ---               | ---                  |

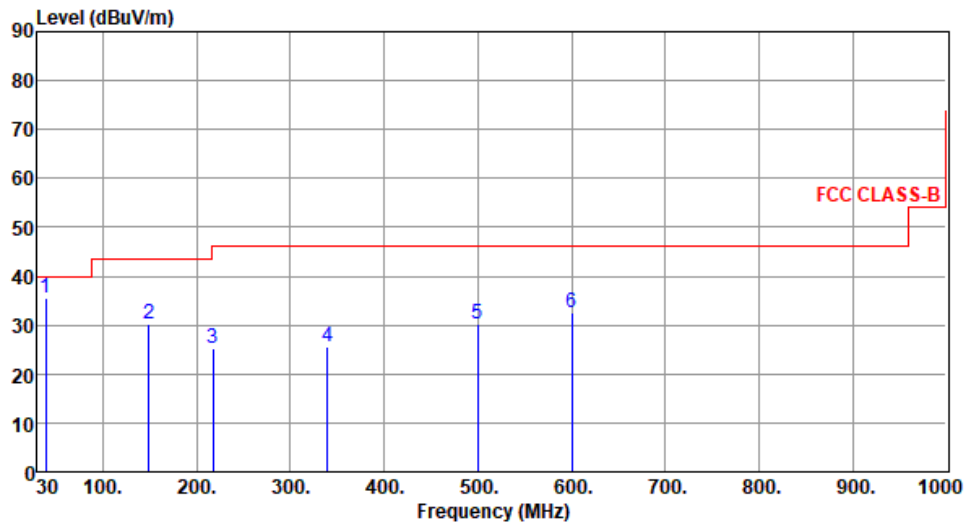
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5795 |
| Polarization | Vertical | Test Configuration | 2    |



|   | 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 | 38.66        | 35.48                       | 40.00           | -4.52        | 44.81                 | -9.33        | Peak   | ---               | ---                  |
| 2 | 149.25       | 30.16                       | 43.50           | -13.34       | 38.91                 | -8.75        | Peak   | ---               | ---                  |
| 3 | 217.21       | 25.28                       | 46.00           | -20.72       | 37.42                 | -12.14       | Peak   | ---               | ---                  |
| 4 | 339.55       | 25.47                       | 46.00           | -20.53       | 32.57                 | -7.10        | Peak   | ---               | ---                  |
| 5 | 499.51       | 30.13                       | 46.00           | -15.87       | 33.18                 | -3.05        | Peak   | ---               | ---                  |
| 6 | 600.36       | 32.54                       | 46.00           | -13.46       | 33.13                 | -0.59        | Peak   | ---               | ---                  |

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

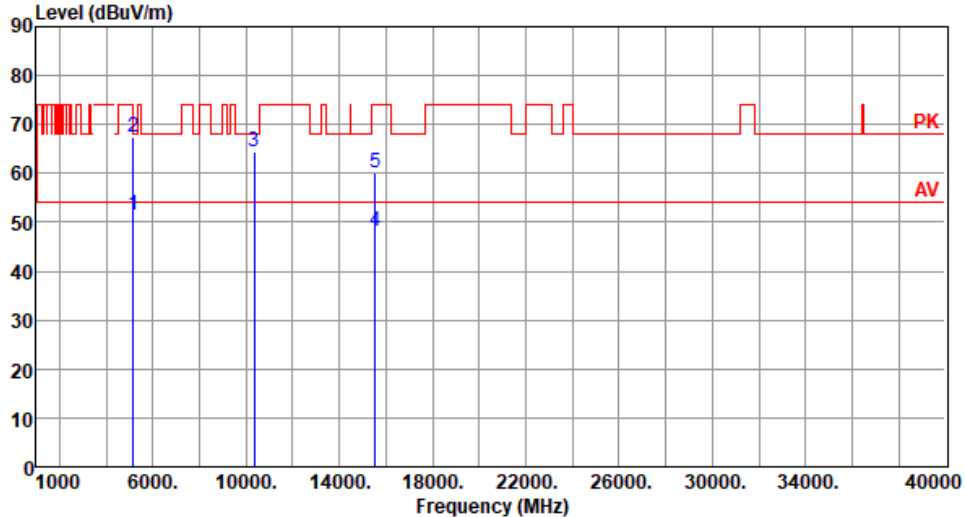
\*Factor includes antenna factor , cable loss and amplifier gain

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 11a

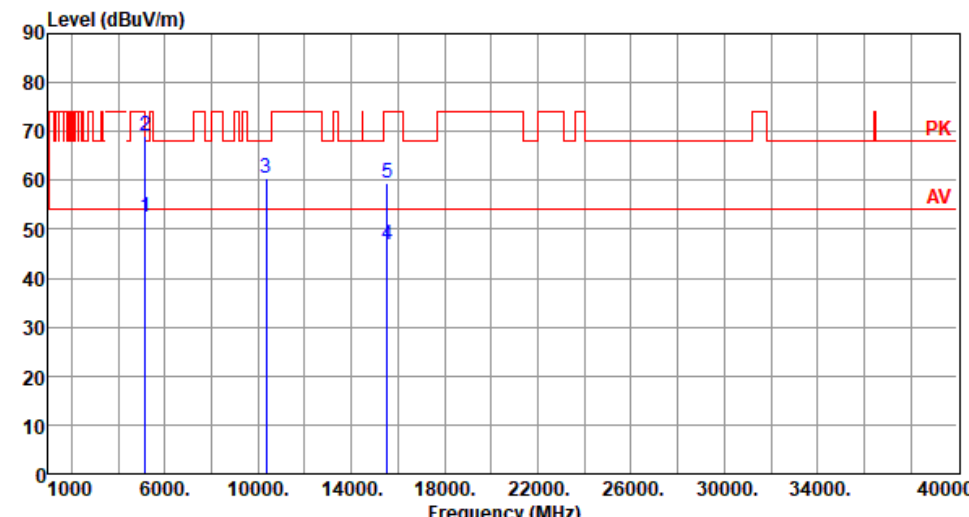
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5180 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5150.00      | 51.42                       | 54.00           | -2.58        | 44.10                 | 7.32         | Average | 202               | 61                   |
| 2 | 5150.00      | 67.57                       | 74.00           | -6.43        | 60.25                 | 7.32         | Peak    | 202               | 61                   |
| 3 | 10360.00     | 64.35                       | 68.20           | -3.85        | 48.26                 | 16.09        | Peak    | 177               | 135                  |
| 4 | 15540.00     | 48.25                       | 54.00           | -5.75        | 30.88                 | 17.37        | Average | 100               | 45                   |
| 5 | 15540.00     | 60.07                       | 74.00           | -13.93       | 42.70                 | 17.37        | Peak    | 100               | 45                   |

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).

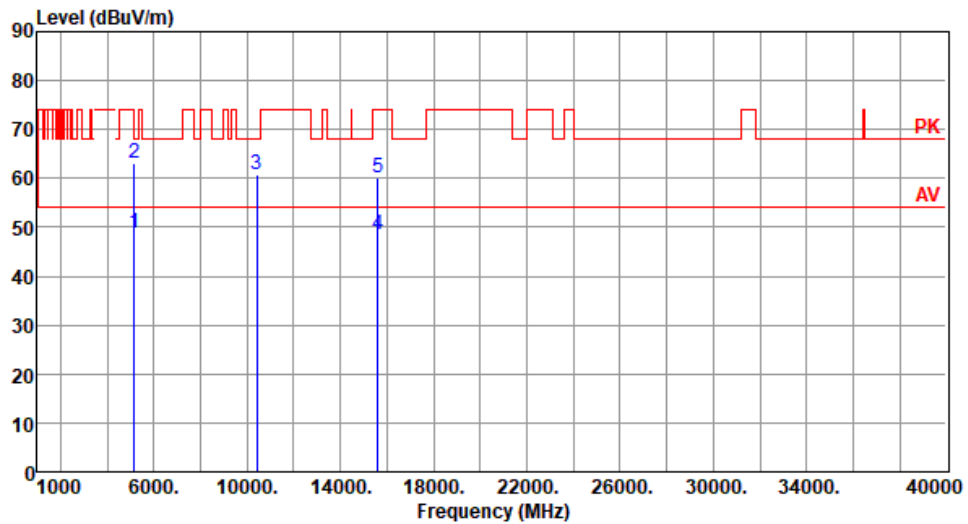
|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5180 |
| Polarization | Vertical | Test Configuration | 1    |

|   | 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 | 5150.00      | 52.47                       | 54.00           | -1.53        | 45.15                 | 7.32         | Average | 191               | 99                   |
| 2 | 5150.00      | 69.10                       | 74.00           | -4.90        | 61.78                 | 7.32         | Peak    | 191               | 99                   |
| 3 | 10360.00     | 60.34                       | 68.20           | -7.86        | 44.25                 | 16.09        | Peak    | 100               | 147                  |
| 4 | 15540.00     | 46.70                       | 54.00           | -7.30        | 29.33                 | 17.37        | Average | 100               | 147                  |
| 5 | 15540.00     | 59.51                       | 74.00           | -14.49       | 42.14                 | 17.37        | Peak    | 100               | 147                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5200 |
| Polarization | Horizontal | Test Configuration | 1    |



|   | 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 | 5150.00      | 48.86                       | 54.00           | -5.14        | 41.54                 | 7.32         | Average | 200               | 69                   |
| 2 | 5150.00      | 62.94                       | 74.00           | -11.06       | 55.62                 | 7.32         | Peak    | 200               | 69                   |
| 3 | 10400.00     | 60.92                       | 68.20           | -7.28        | 44.64                 | 16.28        | Peak    | 178               | 135                  |
| 4 | 15600.00     | 48.48                       | 54.00           | -5.52        | 31.21                 | 17.27        | Average | 100               | 56                   |
| 5 | 15600.00     | 60.03                       | 74.00           | -13.97       | 42.76                 | 17.27        | Peak    | 100               | 56                   |

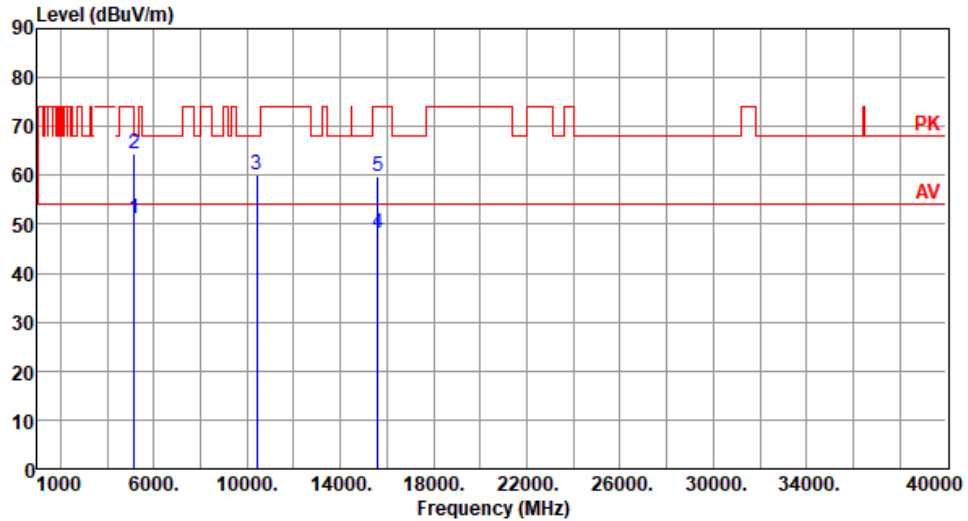
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

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

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5200 |
| Polarization | Vertical | Test Configuration | 1    |



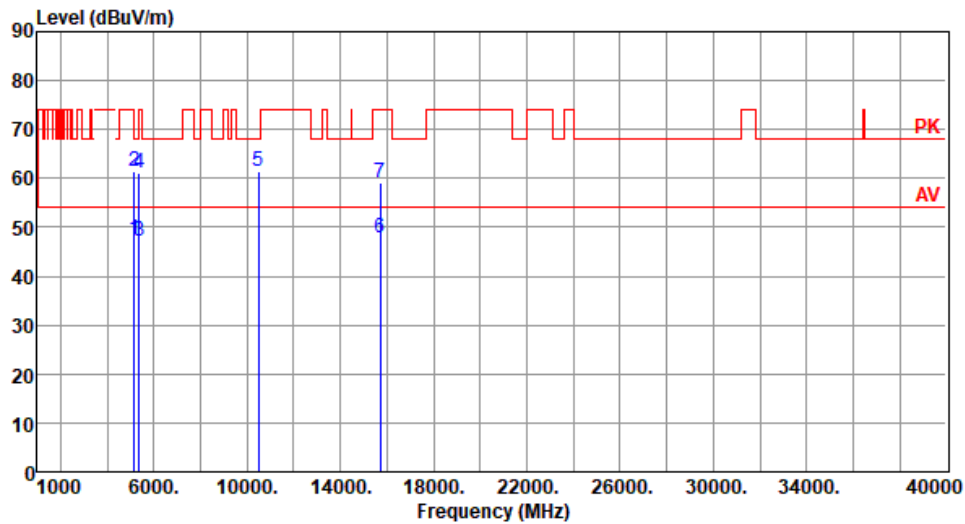
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 51.04                       | 54.00           | -2.96        | 43.72                 | 7.32         | Average | 195               | 94                   |
| 2 | 5150.00      | 64.39                       | 74.00           | -9.61        | 57.07                 | 7.32         | Peak    | 195               | 94                   |
| 3 | 10400.00     | 60.16                       | 68.20           | -8.04        | 43.88                 | 16.28        | Peak    | 100               | 145                  |
| 4 | 15600.00     | 48.29                       | 54.00           | -5.71        | 31.02                 | 17.27        | Average | 100               | 56                   |
| 5 | 15600.00     | 59.85                       | 74.00           | -14.15       | 42.58                 | 17.27        | Peak    | 100               | 56                   |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5240 |
| Polarization | Horizontal | Test Configuration | 1    |



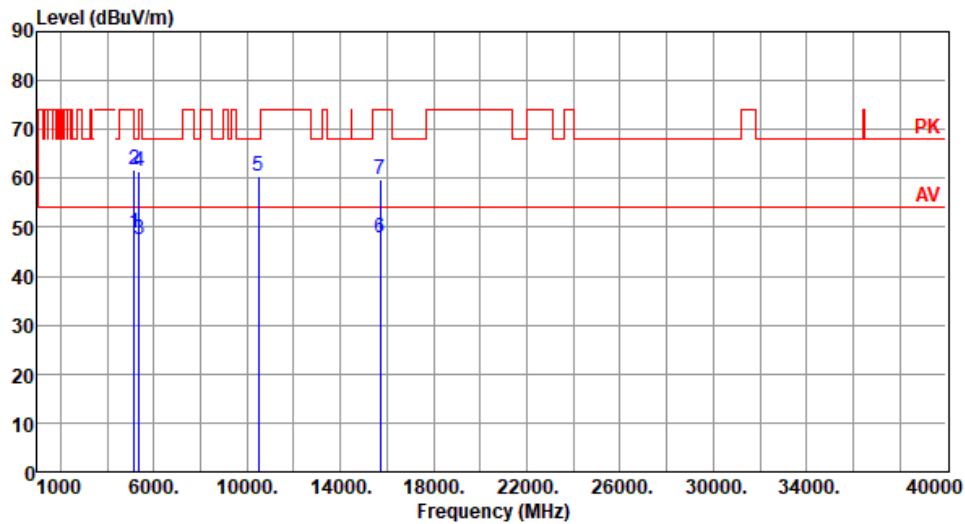
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 47.56                       | 54.00           | -6.44        | 40.24                 | 7.32         | Average | 209               | 64                   |
| 2 | 5150.00      | 61.50                       | 74.00           | -12.50       | 54.18                 | 7.32         | Peak    | 209               | 64                   |
| 3 | 5350.00      | 47.10                       | 54.00           | -6.90        | 40.25                 | 6.85         | Average | 209               | 64                   |
| 4 | 5350.00      | 61.17                       | 74.00           | -12.83       | 54.32                 | 6.85         | Peak    | 209               | 64                   |
| 5 | 10480.00     | 61.29                       | 68.20           | -6.91        | 44.88                 | 16.41        | Peak    | 175               | 133                  |
| 6 | 15720.00     | 47.72                       | 54.00           | -6.28        | 31.12                 | 16.60        | Average | 100               | 40                   |
| 7 | 15720.00     | 59.13                       | 74.00           | -14.87       | 42.53                 | 16.60        | 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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5240 |
| Polarization | Vertical | Test Configuration | 1    |



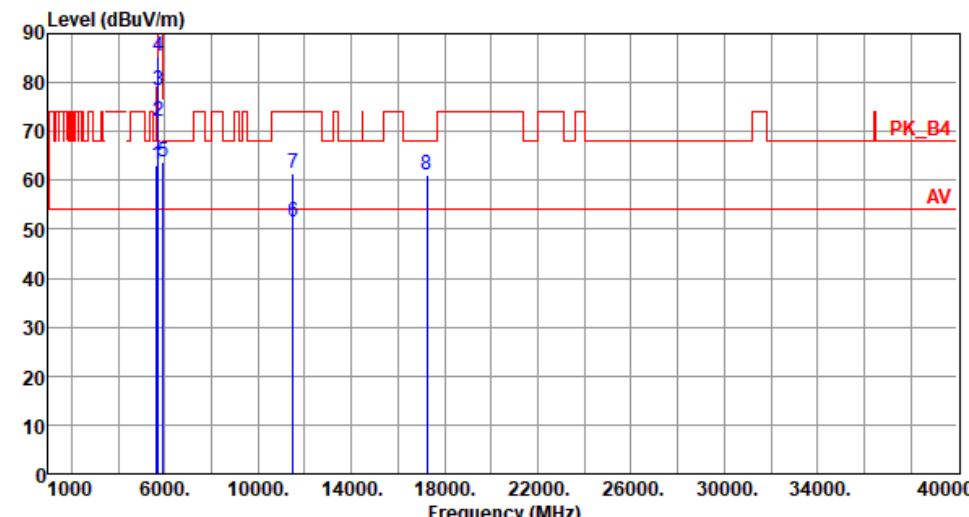
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 48.83                       | 54.00           | -5.17        | 41.51                 | 7.32         | Average | 207               | 95                   |
| 2 | 5150.00      | 61.76                       | 74.00           | -12.24       | 54.44                 | 7.32         | Peak    | 207               | 95                   |
| 3 | 5350.00      | 47.51                       | 54.00           | -6.49        | 40.66                 | 6.85         | Average | 207               | 95                   |
| 4 | 5350.00      | 61.59                       | 74.00           | -12.41       | 54.74                 | 6.85         | Peak    | 207               | 95                   |
| 5 | 10480.00     | 60.49                       | 68.20           | -7.71        | 44.08                 | 16.41        | Peak    | 100               | 148                  |
| 6 | 15720.00     | 47.66                       | 54.00           | -6.34        | 31.06                 | 16.60        | Average | 100               | 50                   |
| 7 | 15720.00     | 59.75                       | 74.00           | -14.25       | 43.15                 | 16.60        | 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).

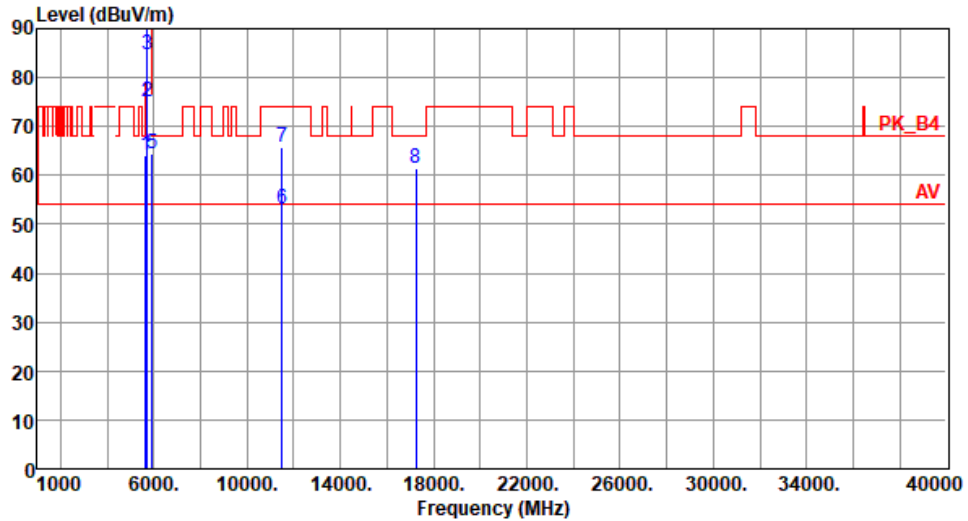
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5650.00      | 63.01                       | 68.20           | -5.19        | 55.62                 | 7.39         | Peak    | 185               | 42                   |
| 2 | 5700.00      | 72.08                       | 105.20          | -33.12       | 64.58                 | 7.50         | Peak    | 185               | 42                   |
| 3 | 5720.00      | 78.28                       | 110.80          | -32.52       | 70.66                 | 7.62         | Peak    | 185               | 42                   |
| 4 | 5725.00      | 85.45                       | 122.20          | -36.75       | 77.79                 | 7.66         | Peak    | 185               | 42                   |
| 5 | 5925.00      | 63.71                       | 68.20           | -4.49        | 55.64                 | 8.07         | Peak    | 185               | 42                   |
| 6 | 11490.00     | 51.32                       | 54.00           | -2.68        | 34.56                 | 16.76        | Average | 100               | 32                   |
| 7 | 11490.00     | 61.35                       | 74.00           | -12.65       | 44.59                 | 16.76        | Peak    | 100               | 32                   |
| 8 | 17235.00     | 60.97                       | 68.20           | -7.23        | 42.33                 | 18.64        | Peak    | 100               | 25                   |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 1    |



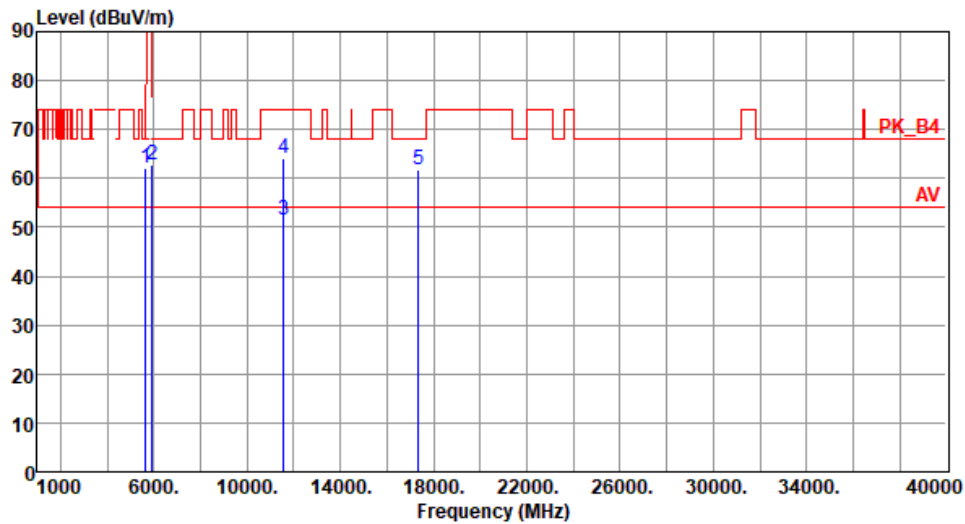
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 64.01                       | 68.20           | -4.19        | 56.62                 | 7.39         | Peak    | 198               | 120                  |
| 2 | 5700.00      | 75.21                       | 105.20          | -29.99       | 67.71                 | 7.50         | Peak    | 198               | 120                  |
| 3 | 5720.00      | 84.81                       | 110.80          | -25.99       | 77.19                 | 7.62         | Peak    | 198               | 120                  |
| 4 | 5725.00      | 95.17                       | 122.20          | -27.03       | 87.51                 | 7.66         | Peak    | 198               | 120                  |
| 5 | 5925.00      | 64.27                       | 68.20           | -3.93        | 56.20                 | 8.07         | Peak    | 198               | 120                  |
| 6 | 11490.00     | 52.99                       | 54.00           | -1.01        | 36.23                 | 16.76        | Average | 150               | 266                  |
| 7 | 11490.00     | 65.62                       | 74.00           | -8.38        | 48.86                 | 16.76        | Peak    | 150               | 266                  |
| 8 | 17235.00     | 61.53                       | 68.20           | -6.67        | 42.89                 | 18.64        | Peak    | 100               | 255                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 1    |



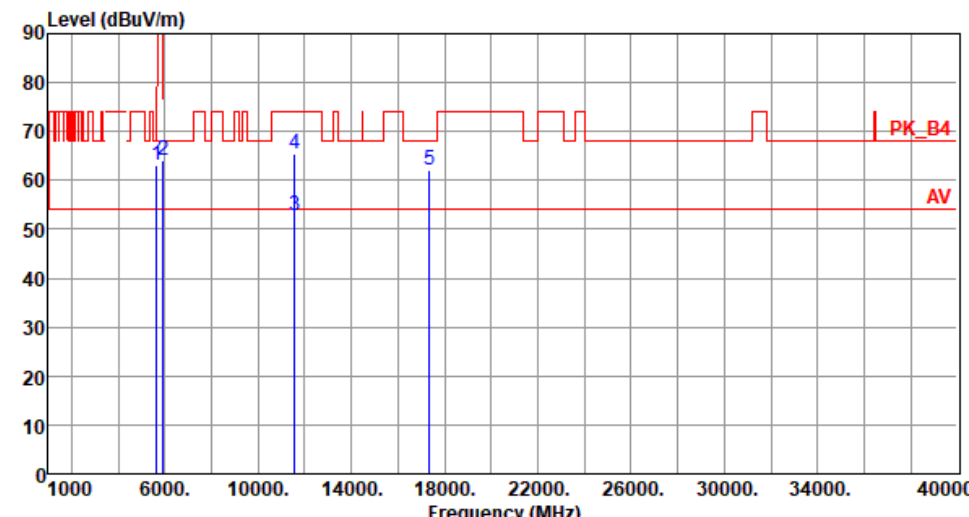
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 61.97                       | 68.20           | -6.23        | 54.58                 | 7.39         | Peak    | 187               | 44                   |
| 2 | 5925.00      | 62.71                       | 68.20           | -5.49        | 54.64                 | 8.07         | Peak    | 187               | 44                   |
| 3 | 11570.00     | 51.39                       | 54.00           | -2.61        | 34.78                 | 16.61        | Average | 102               | 30                   |
| 4 | 11570.00     | 64.10                       | 74.00           | -9.90        | 47.49                 | 16.61        | Peak    | 102               | 30                   |
| 5 | 17355.00     | 61.78                       | 68.20           | -6.42        | 42.55                 | 19.23        | 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).

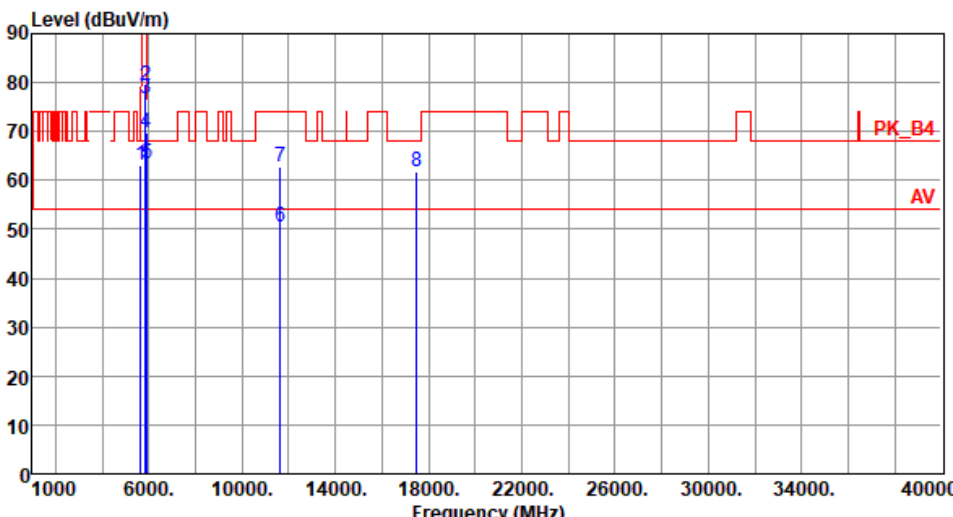
|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 1    |

|   | 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 | 5650.00      | 63.08                       | 68.20           | -5.12        | 55.69                 | 7.39         | Peak    | 188               | 123                  |
| 2 | 5925.00      | 63.96                       | 68.20           | -4.24        | 55.89                 | 8.07         | Peak    | 188               | 123                  |
| 3 | 11570.00     | 52.76                       | 54.00           | -1.24        | 36.15                 | 16.61        | Average | 155               | 264                  |
| 4 | 11570.00     | 65.31                       | 74.00           | -8.69        | 48.70                 | 16.61        | Peak    | 155               | 264                  |
| 5 | 17355.00     | 62.07                       | 68.20           | -6.13        | 42.84                 | 19.23        | 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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 1    |

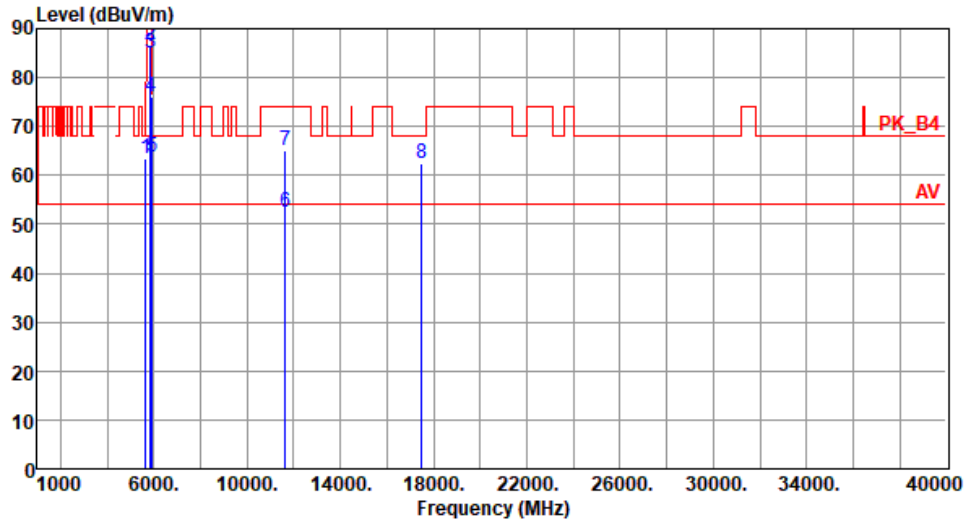
  


|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 63.26                       | 68.20           | -4.94        | 55.87                 | 7.39         | Peak    | 183               | 46                   |
| 2 | 5850.00      | 79.24                       | 122.20          | -42.96       | 71.22                 | 8.02         | Peak    | 183               | 46                   |
| 3 | 5855.00      | 76.60                       | 110.80          | -34.20       | 68.58                 | 8.02         | Peak    | 183               | 46                   |
| 4 | 5875.00      | 69.60                       | 105.20          | -35.60       | 61.57                 | 8.03         | Peak    | 183               | 46                   |
| 5 | 5925.00      | 63.52                       | 68.20           | -4.68        | 55.45                 | 8.07         | Peak    | 183               | 46                   |
| 6 | 11650.00     | 50.63                       | 54.00           | -3.37        | 34.25                 | 16.38        | Average | 100               | 29                   |
| 7 | 11650.00     | 62.64                       | 74.00           | -11.36       | 46.26                 | 16.38        | Peak    | 100               | 29                   |
| 8 | 17475.00     | 61.90                       | 68.20           | -6.30        | 42.16                 | 19.74        | Peak    | 100               | 39                   |

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).



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 1    |



|   | 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 | 5650.00      | 63.58                       | 68.20           | -4.62        | 56.19                 | 7.39         | Peak    | 182               | 117                  |
| 2 | 5850.00      | 86.54                       | 122.20          | -35.66       | 78.52                 | 8.02         | Peak    | 182               | 117                  |
| 3 | 5855.00      | 84.91                       | 110.80          | -25.89       | 76.89                 | 8.02         | Peak    | 182               | 117                  |
| 4 | 5875.00      | 76.18                       | 105.20          | -29.02       | 68.15                 | 8.03         | Peak    | 182               | 117                  |
| 5 | 5925.00      | 63.72                       | 68.20           | -4.48        | 55.65                 | 8.07         | Peak    | 182               | 117                  |
| 6 | 11650.00     | 52.60                       | 54.00           | -1.40        | 36.22                 | 16.38        | Average | 154               | 266                  |
| 7 | 11650.00     | 65.23                       | 74.00           | -8.77        | 48.85                 | 16.38        | Peak    | 154               | 266                  |
| 8 | 17475.00     | 62.36                       | 68.20           | -5.84        | 42.62                 | 19.74        | Peak    | 100               | 249                  |

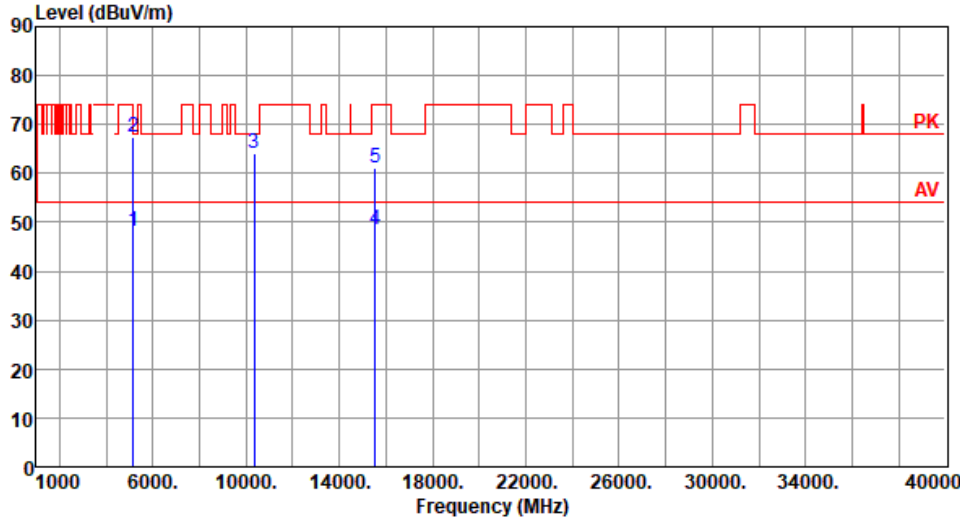
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

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

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

### 3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

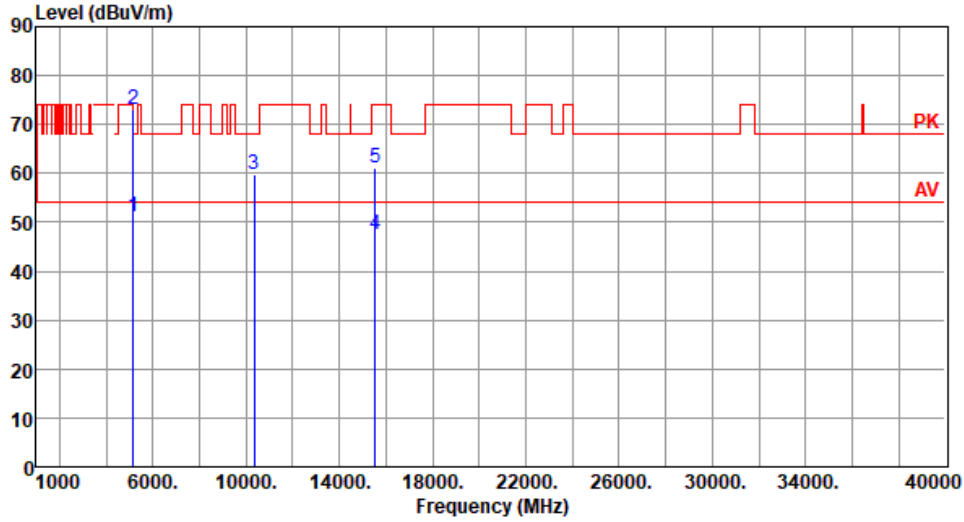
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5180 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5150.00      | 48.19                       | 54.00           | -5.81        | 40.87                 | 7.32         | Average | 199               | 68                   |
| 2 | 5150.00      | 67.57                       | 74.00           | -6.43        | 60.25                 | 7.32         | Peak    | 199               | 68                   |
| 3 | 10360.00     | 63.94                       | 68.20           | -4.26        | 47.85                 | 16.09        | Peak    | 174               | 132                  |
| 4 | 15540.00     | 48.39                       | 54.00           | -5.61        | 31.02                 | 17.37        | Average | 100               | 136                  |
| 5 | 15540.00     | 61.22                       | 74.00           | -12.78       | 43.85                 | 17.37        | Peak    | 100               | 136                  |

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).

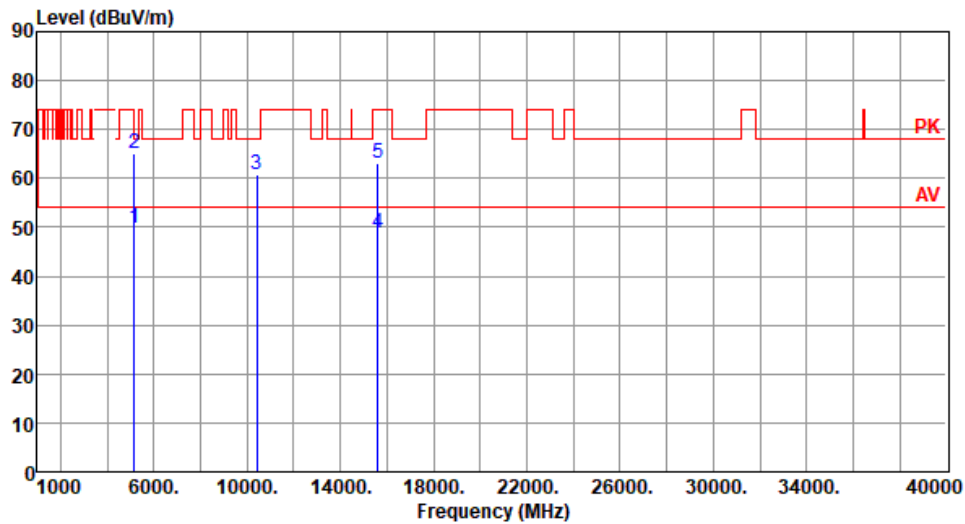
|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5180 |
| Polarization | Vertical | Test Configuration | 1    |

|   | 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 | 5150.00      | 51.10                       | 54.00           | -2.90        | 43.78                 | 7.32         | Average | 195               | 126                  |
| 2 | 5150.00      | 72.92                       | 74.00           | -1.08        | 65.60                 | 7.32         | Peak    | 195               | 126                  |
| 3 | 10360.00     | 59.67                       | 68.20           | -8.53        | 43.58                 | 16.09        | Peak    | 100               | 143                  |
| 4 | 15540.00     | 47.48                       | 54.00           | -6.52        | 30.11                 | 17.37        | Average | 100               | 147                  |
| 5 | 15540.00     | 61.00                       | 74.00           | -13.00       | 43.63                 | 17.37        | Peak    | 100               | 147                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5200 |
| Polarization | Horizontal | Test Configuration | 1    |



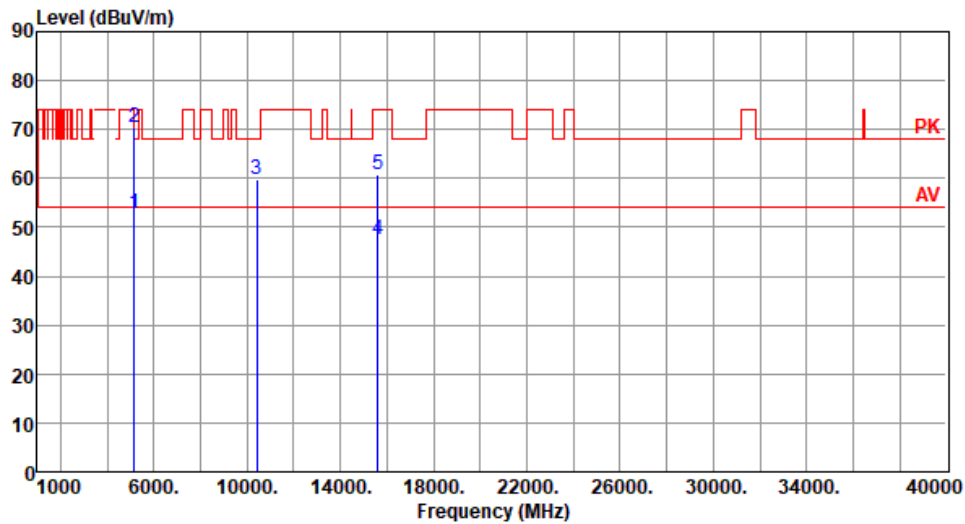
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 49.83                       | 54.00           | -4.17        | 42.51                 | 7.32         | Average | 208               | 64                   |
| 2 | 5150.00      | 65.00                       | 74.00           | -9.00        | 57.68                 | 7.32         | Peak    | 208               | 64                   |
| 3 | 10400.00     | 60.81                       | 68.20           | -7.39        | 44.53                 | 16.28        | Peak    | 176               | 145                  |
| 4 | 15600.00     | 48.72                       | 54.00           | -5.28        | 31.45                 | 17.27        | Average | 110               | 62                   |
| 5 | 15600.00     | 63.25                       | 74.00           | -10.75       | 45.98                 | 17.27        | Peak    | 110               | 62                   |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5200 |
| Polarization | Vertical | Test Configuration | 1    |



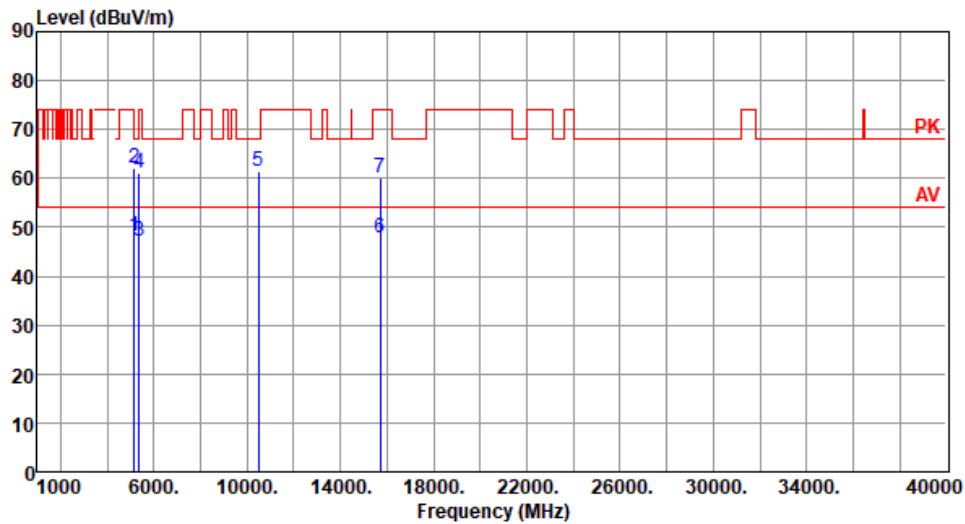
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 52.84                       | 54.00           | -1.16        | 45.52                 | 7.32         | Average | 198               | 129                  |
| 2 | 5150.00      | 70.56                       | 74.00           | -3.44        | 63.24                 | 7.32         | Peak    | 198               | 129                  |
| 3 | 10400.00     | 59.86                       | 68.20           | -8.34        | 43.58                 | 16.28        | Peak    | 100               | 142                  |
| 4 | 15600.00     | 47.52                       | 54.00           | -6.48        | 30.25                 | 17.27        | Average | 100               | 148                  |
| 5 | 15600.00     | 60.90                       | 74.00           | -13.10       | 43.63                 | 17.27        | Peak    | 100               | 148                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5240 |
| Polarization | Horizontal | Test Configuration | 1    |



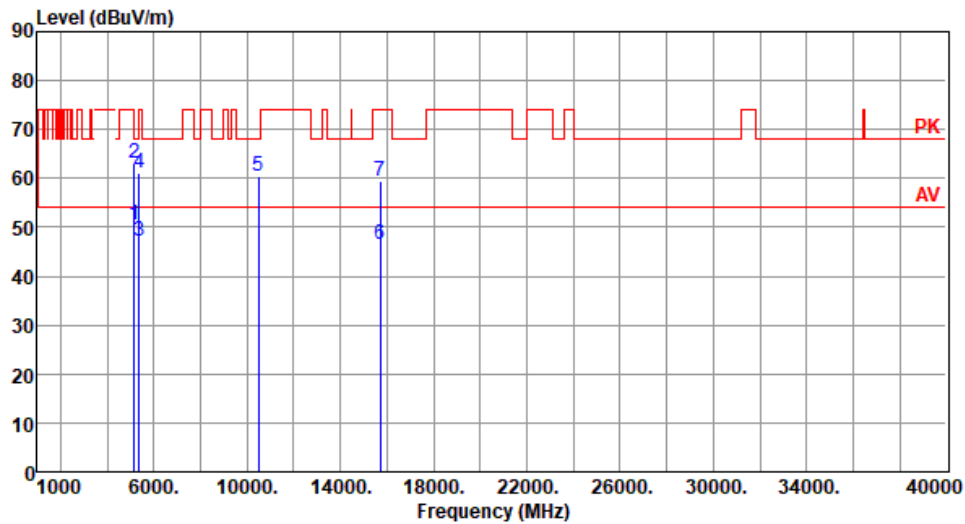
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 48.00                       | 54.00           | -6.00        | 40.68                 | 7.32         | Average | 195               | 62                   |
| 2 | 5150.00      | 61.94                       | 74.00           | -12.06       | 54.62                 | 7.32         | Peak    | 195               | 62                   |
| 3 | 5350.00      | 47.13                       | 54.00           | -6.87        | 40.28                 | 6.85         | Average | 195               | 62                   |
| 4 | 5350.00      | 61.02                       | 74.00           | -12.98       | 54.17                 | 6.85         | Peak    | 195               | 62                   |
| 5 | 10480.00     | 61.50                       | 68.20           | -6.70        | 45.09                 | 16.41        | Peak    | 201               | 125                  |
| 6 | 15720.00     | 47.83                       | 54.00           | -6.17        | 31.23                 | 16.60        | Average | 100               | 40                   |
| 7 | 15720.00     | 60.16                       | 74.00           | -13.84       | 43.56                 | 16.60        | 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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5240 |
| Polarization | Vertical | Test Configuration | 1    |



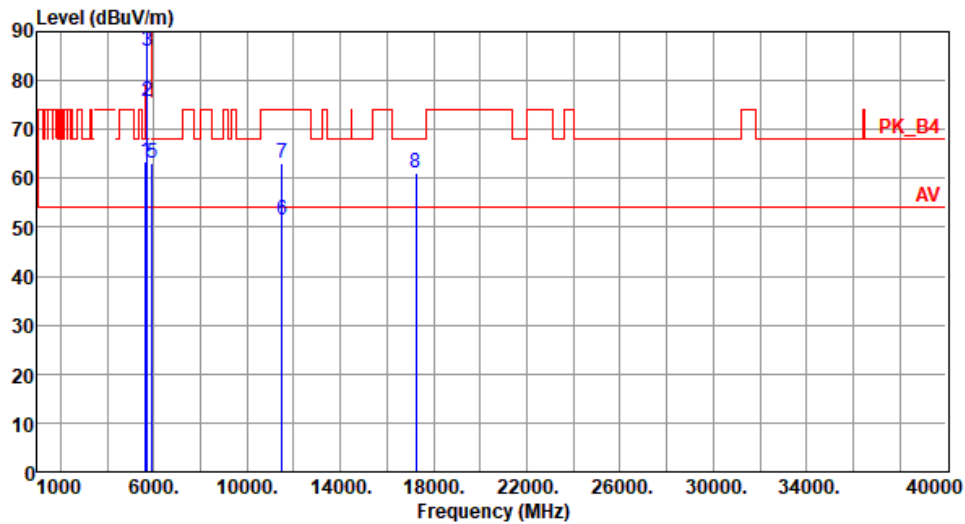
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 50.41                       | 54.00           | -3.59        | 43.09                 | 7.32         | Average | 213               | 123                  |
| 2 | 5150.00      | 62.99                       | 74.00           | -11.01       | 55.67                 | 7.32         | Peak    | 213               | 123                  |
| 3 | 5350.00      | 47.10                       | 54.00           | -6.90        | 40.25                 | 6.85         | Average | 213               | 123                  |
| 4 | 5350.00      | 61.07                       | 74.00           | -12.93       | 54.22                 | 6.85         | Peak    | 213               | 123                  |
| 5 | 10480.00     | 60.29                       | 68.20           | -7.91        | 43.88                 | 16.41        | Peak    | 100               | 145                  |
| 6 | 15720.00     | 46.62                       | 54.00           | -7.38        | 30.02                 | 16.60        | Average | 100               | 141                  |
| 7 | 15720.00     | 59.47                       | 74.00           | -14.53       | 42.87                 | 16.60        | Peak    | 100               | 141                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 1    |



|   | 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 | 5650.00      | 63.50                       | 68.20           | -4.70        | 56.11                 | 7.39         | Peak    | 187               | 49                   |
| 2 | 5700.00      | 75.75                       | 105.20          | -29.45       | 68.25                 | 7.50         | Peak    | 187               | 49                   |
| 3 | 5720.00      | 85.87                       | 110.80          | -24.93       | 78.25                 | 7.62         | Peak    | 187               | 49                   |
| 4 | 5725.00      | 90.23                       | 122.20          | -31.97       | 82.57                 | 7.66         | Peak    | 187               | 49                   |
| 5 | 5925.00      | 63.19                       | 68.20           | -5.01        | 55.12                 | 8.07         | Peak    | 187               | 49                   |
| 6 | 11490.00     | 51.35                       | 54.00           | -2.65        | 34.59                 | 16.76        | Average | 100               | 25                   |
| 7 | 11490.00     | 63.27                       | 74.00           | -10.73       | 46.51                 | 16.76        | Peak    | 100               | 25                   |
| 8 | 17235.00     | 61.04                       | 68.20           | -7.16        | 42.40                 | 18.64        | Peak    | 100               | 31                   |

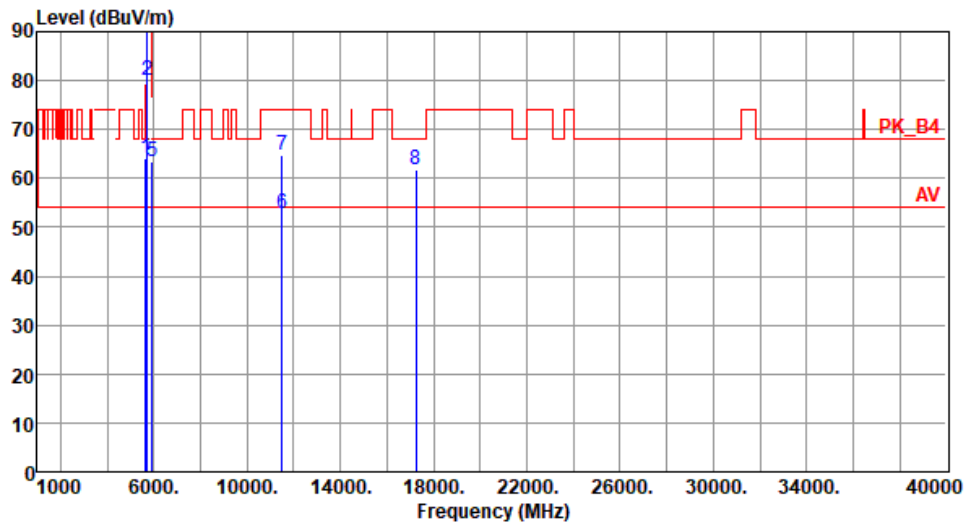
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

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

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 1    |



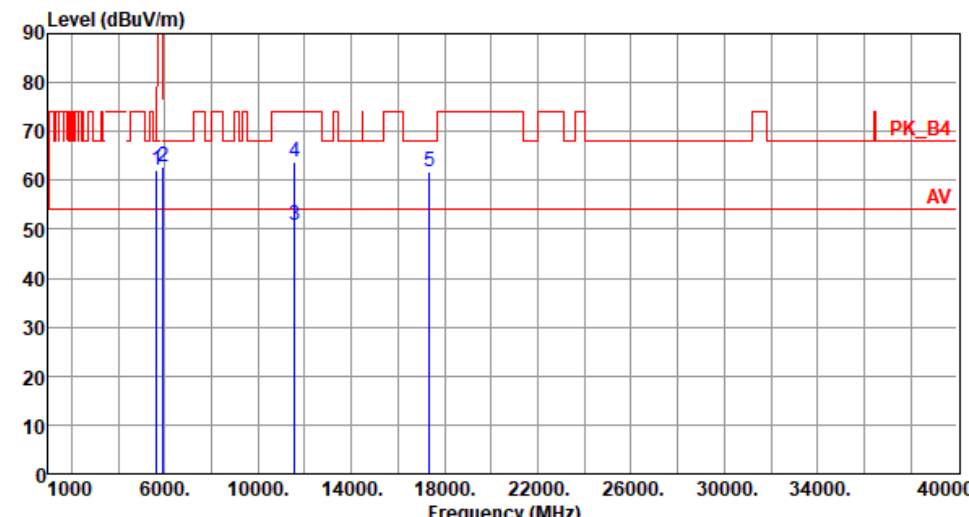
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 64.06                       | 68.20           | -4.14        | 56.67                 | 7.39         | Peak    | 190               | 96                   |
| 2 | 5700.00      | 79.98                       | 105.20          | -25.22       | 72.48                 | 7.50         | Peak    | 190               | 96                   |
| 3 | 5720.00      | 89.11                       | 110.80          | -21.69       | 81.49                 | 7.62         | Peak    | 190               | 96                   |
| 4 | 5725.00      | 93.89                       | 122.20          | -28.31       | 86.23                 | 7.66         | Peak    | 190               | 96                   |
| 5 | 5925.00      | 63.34                       | 68.20           | -4.86        | 55.27                 | 8.07         | Peak    | 190               | 96                   |
| 6 | 11490.00     | 52.65                       | 54.00           | -1.35        | 35.89                 | 16.76        | Average | 159               | 248                  |
| 7 | 11490.00     | 64.62                       | 74.00           | -9.38        | 47.86                 | 16.76        | Peak    | 159               | 248                  |
| 8 | 17235.00     | 61.61                       | 68.20           | -6.59        | 42.97                 | 18.64        | Peak    | 100               | 253                  |

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).

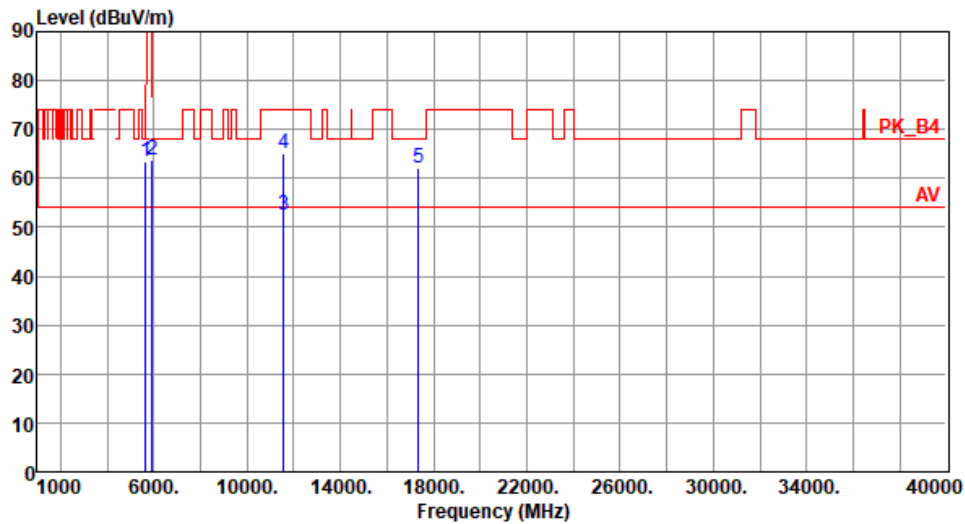
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5650.00      | 62.08                       | 68.20           | -6.12        | 54.69                 | 7.39         | Peak    | 184               | 47                   |
| 2 | 5925.00      | 62.74                       | 68.20           | -5.46        | 54.67                 | 8.07         | Peak    | 184               | 47                   |
| 3 | 11570.00     | 50.75                       | 54.00           | -3.25        | 34.14                 | 16.61        | Average | 100               | 26                   |
| 4 | 11570.00     | 63.86                       | 74.00           | -10.14       | 47.25                 | 16.61        | Peak    | 102               | 26                   |
| 5 | 17355.00     | 61.63                       | 68.20           | -6.57        | 42.40                 | 19.23        | Peak    | 100               | 25                   |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 1    |



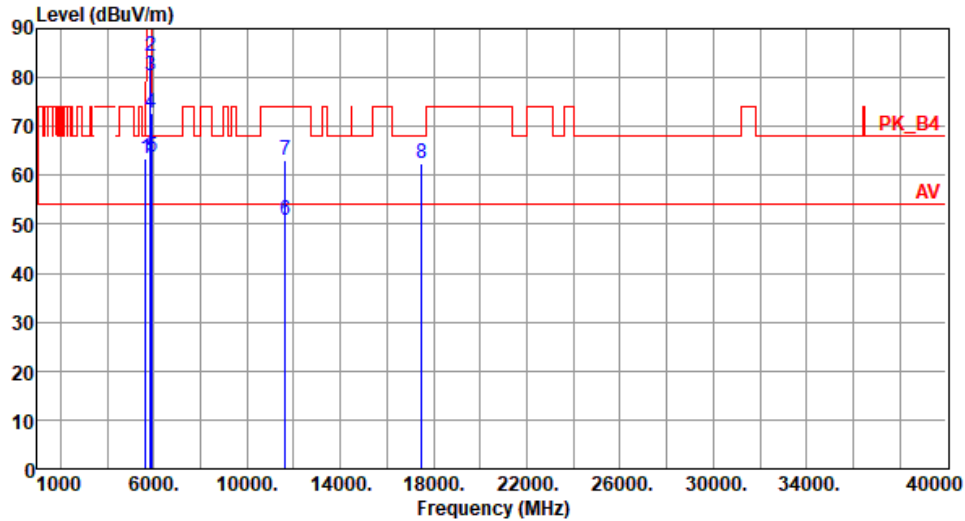
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 63.38                       | 68.20           | -4.82        | 55.99                 | 7.39         | Peak    | 189               | 122                  |
| 2 | 5925.00      | 63.82                       | 68.20           | -4.38        | 55.75                 | 8.07         | Peak    | 189               | 122                  |
| 3 | 11570.00     | 52.63                       | 54.00           | -1.37        | 36.02                 | 16.61        | Average | 154               | 261                  |
| 4 | 11570.00     | 65.13                       | 74.00           | -8.87        | 48.52                 | 16.61        | Peak    | 154               | 261                  |
| 5 | 17355.00     | 62.07                       | 68.20           | -6.13        | 42.84                 | 19.23        | Peak    | 100               | 250                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 1    |



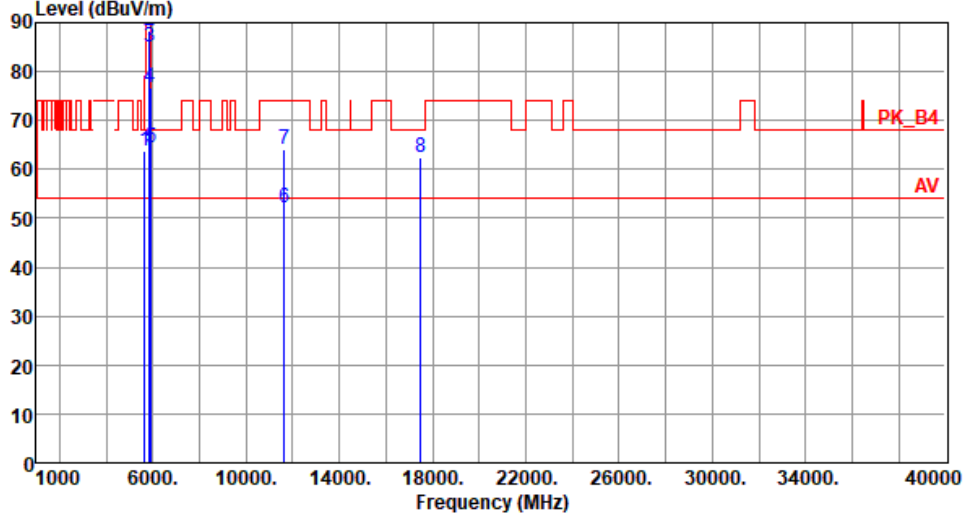
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 63.53                       | 68.20           | -4.67        | 56.14                 | 7.39         | Peak    | 178               | 45                   |
| 2 | 5850.00      | 84.27                       | 122.20          | -37.93       | 76.25                 | 8.02         | Peak    | 178               | 45                   |
| 3 | 5855.00      | 80.27                       | 110.80          | -30.53       | 72.25                 | 8.02         | Peak    | 178               | 45                   |
| 4 | 5875.00      | 72.60                       | 105.20          | -32.60       | 64.57                 | 8.03         | Peak    | 178               | 45                   |
| 5 | 5925.00      | 63.64                       | 68.20           | -4.56        | 55.57                 | 8.07         | Peak    | 178               | 45                   |
| 6 | 11650.00     | 50.96                       | 54.00           | -3.04        | 34.58                 | 16.38        | Average | 100               | 26                   |
| 7 | 11650.00     | 62.96                       | 74.00           | -11.04       | 46.58                 | 16.38        | Peak    | 100               | 26                   |
| 8 | 17475.00     | 62.31                       | 68.20           | -5.89        | 42.57                 | 19.74        | Peak    | 100               | 29                   |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 1    |

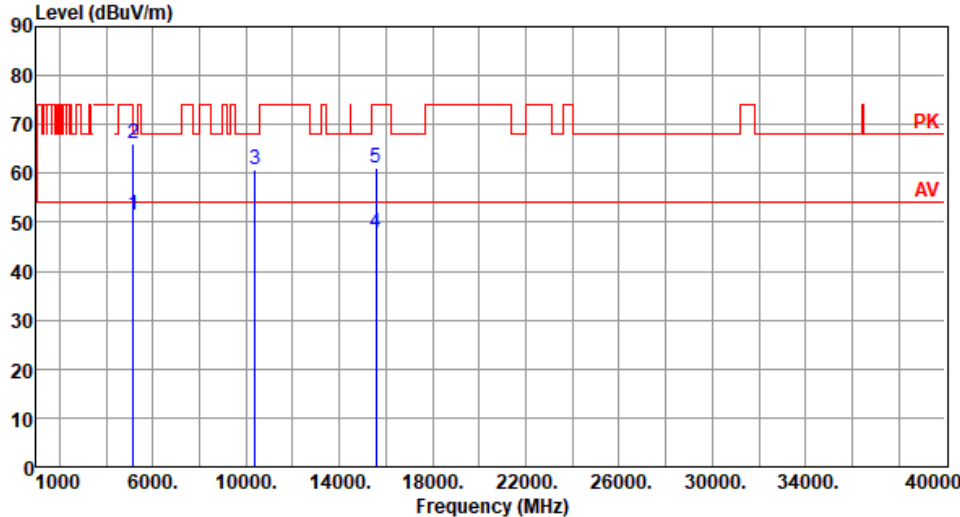
  


|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 63.73                       | 68.20           | -4.47        | 56.34                 | 7.39         | Peak    | 166               | 101                  |
| 2 | 5850.00      | 88.28                       | 122.20          | -33.92       | 80.26                 | 8.02         | Peak    | 166               | 101                  |
| 3 | 5855.00      | 85.18                       | 110.80          | -25.62       | 77.16                 | 8.02         | Peak    | 166               | 101                  |
| 4 | 5875.00      | 76.59                       | 105.20          | -28.61       | 68.56                 | 8.03         | Peak    | 166               | 101                  |
| 5 | 5925.00      | 64.56                       | 68.20           | -3.64        | 56.49                 | 8.07         | Peak    | 166               | 101                  |
| 6 | 11650.00     | 52.23                       | 54.00           | -1.77        | 35.85                 | 16.38        | Average | 157               | 264                  |
| 7 | 11650.00     | 64.23                       | 74.00           | -9.77        | 47.85                 | 16.38        | Peak    | 157               | 264                  |
| 8 | 17475.00     | 62.58                       | 68.20           | -5.62        | 42.84                 | 19.74        | Peak    | 100               | 259                  |

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).

### 3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

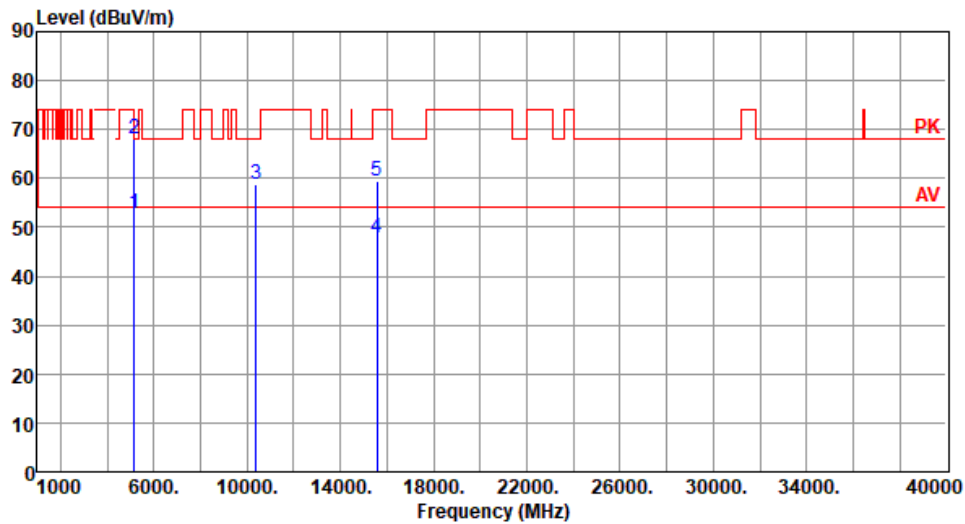
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5190 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5150.00      | 51.52                       | 54.00           | -2.48        | 44.20                 | 7.32         | Average | 194               | 2                    |
| 2 | 5150.00      | 66.11                       | 74.00           | -7.89        | 58.79                 | 7.32         | Peak    | 194               | 2                    |
| 3 | 10380.00     | 60.77                       | 68.20           | -7.43        | 44.59                 | 16.18        | Peak    | 174               | 138                  |
| 4 | 15570.00     | 47.83                       | 54.00           | -6.17        | 30.51                 | 17.32        | Average | 100               | 141                  |
| 5 | 15570.00     | 60.98                       | 74.00           | -13.02       | 43.66                 | 17.32        | Peak    | 100               | 141                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5190 |
| Polarization | Vertical | Test Configuration | 1    |



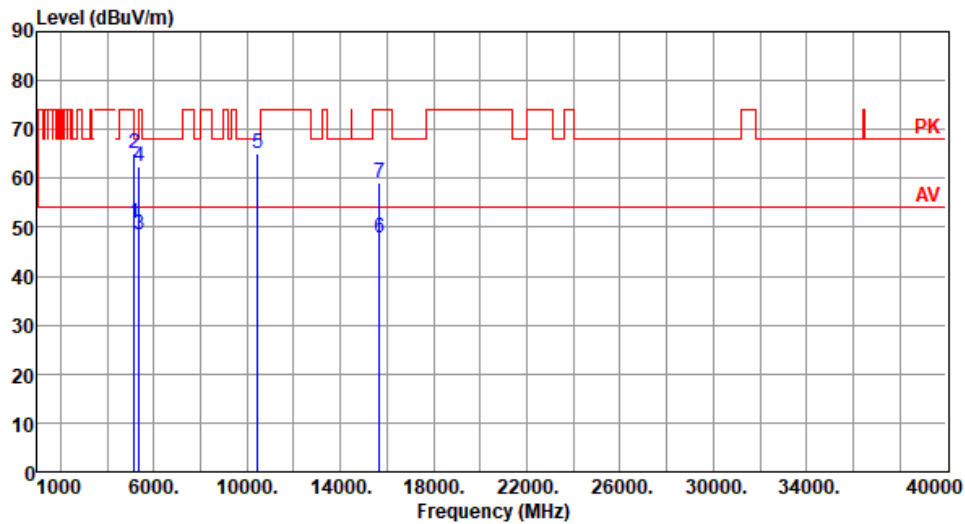
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 52.75                       | 54.00           | -1.25        | 45.43                 | 7.32         | Average | 225               | 104                  |
| 2 | 5150.00      | 67.94                       | 74.00           | -6.06        | 60.62                 | 7.32         | Peak    | 225               | 104                  |
| 3 | 10380.00     | 58.73                       | 68.20           | -9.47        | 42.55                 | 16.18        | Peak    | 100               | 147                  |
| 4 | 15570.00     | 47.95                       | 54.00           | -6.05        | 30.63                 | 17.32        | Average | 100               | 148                  |
| 5 | 15570.00     | 59.47                       | 74.00           | -14.53       | 42.15                 | 17.32        | Peak    | 100               | 148                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5230 |
| Polarization | Horizontal | Test Configuration | 1    |



|   | 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 | 5150.00      | 50.76                       | 54.00           | -3.24        | 43.44                 | 7.32         | Average | 200               | 65                   |
| 2 | 5150.00      | 65.17                       | 74.00           | -8.83        | 57.85                 | 7.32         | Peak    | 200               | 65                   |
| 3 | 5350.00      | 48.43                       | 54.00           | -5.57        | 41.58                 | 6.85         | Average | 200               | 65                   |
| 4 | 5350.00      | 62.54                       | 74.00           | -11.46       | 55.69                 | 6.85         | Peak    | 200               | 65                   |
| 5 | 10460.00     | 64.96                       | 68.20           | -3.24        | 48.59                 | 16.37        | Peak    | 177               | 132                  |
| 6 | 15690.00     | 47.88                       | 54.00           | -6.12        | 31.20                 | 16.68        | Average | 100               | 139                  |
| 7 | 15690.00     | 59.26                       | 74.00           | -14.74       | 42.58                 | 16.68        | Peak    | 100               | 139                  |

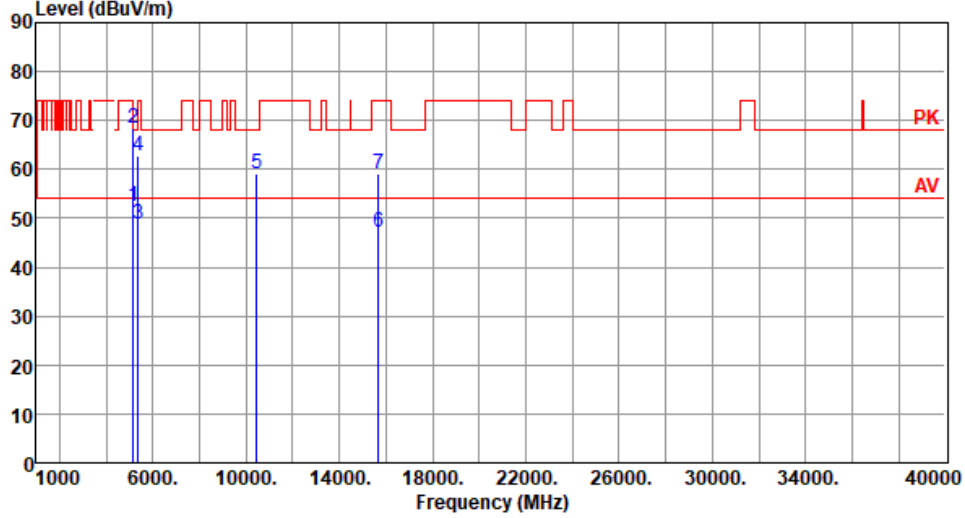
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

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

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



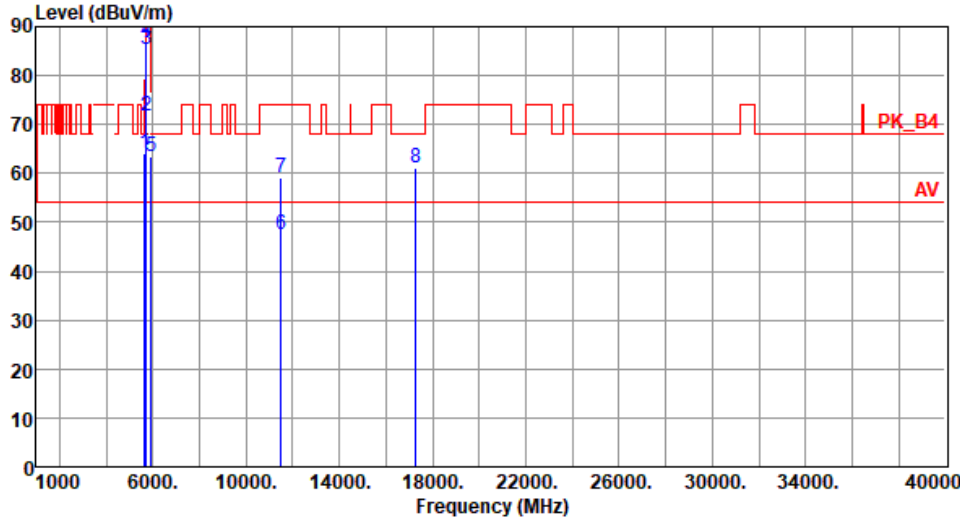
|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5230 |
| Polarization | Vertical | Test Configuration | 1    |

|   | 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 | 5150.00      | 52.58                       | 54.00           | -1.42        | 45.26                 | 7.32         | Average | 248               | 106                  |
| 2 | 5150.00      | 68.53                       | 74.00           | -5.47        | 61.21                 | 7.32         | Peak    | 248               | 106                  |
| 3 | 5350.00      | 48.84                       | 54.00           | -5.16        | 41.99                 | 6.85         | Average | 248               | 106                  |
| 4 | 5350.00      | 62.73                       | 74.00           | -11.27       | 55.88                 | 6.85         | Peak    | 248               | 106                  |
| 5 | 10460.00     | 58.98                       | 68.20           | -9.22        | 42.61                 | 16.37        | Peak    | 100               | 147                  |
| 6 | 15690.00     | 47.31                       | 54.00           | -6.69        | 30.63                 | 16.68        | Average | 100               | 142                  |
| 7 | 15690.00     | 59.22                       | 74.00           | -14.78       | 42.54                 | 16.68        | Peak    | 100               | 142                  |

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).

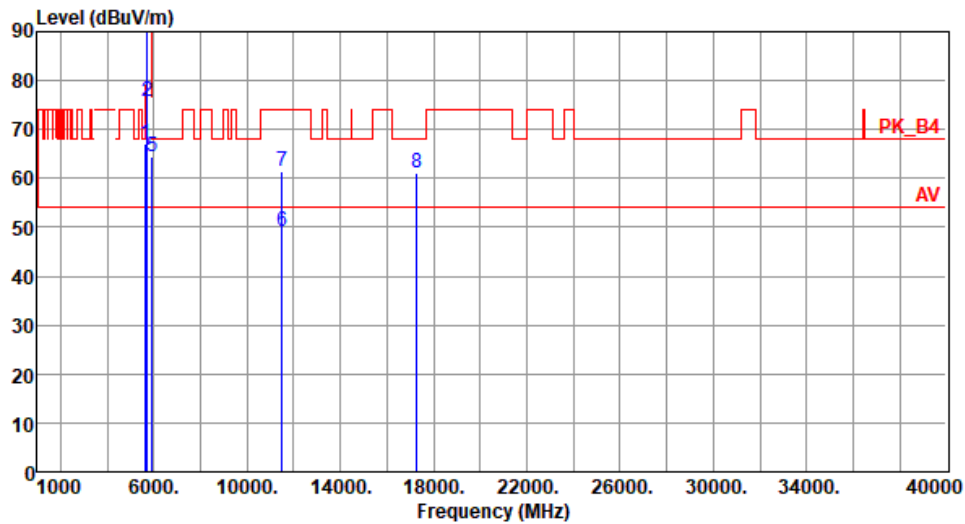
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5755 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5650.00      | 64.24                       | 68.20           | -3.96        | 56.85                 | 7.39         | Peak    | 177               | 48                   |
| 2 | 5700.00      | 71.72                       | 105.20          | -33.48       | 64.22                 | 7.50         | Peak    | 177               | 48                   |
| 3 | 5720.00      | 85.20                       | 110.80          | -25.60       | 77.58                 | 7.62         | Peak    | 177               | 48                   |
| 4 | 5725.00      | 86.86                       | 122.20          | -35.34       | 79.20                 | 7.66         | Peak    | 177               | 48                   |
| 5 | 5925.00      | 63.29                       | 68.20           | -4.91        | 55.22                 | 8.07         | Peak    | 178               | 45                   |
| 6 | 11510.00     | 47.33                       | 54.00           | -6.67        | 30.58                 | 16.75        | Average | 100               | 25                   |
| 7 | 11510.00     | 59.05                       | 74.00           | -14.95       | 42.30                 | 16.75        | Peak    | 100               | 25                   |
| 8 | 17265.00     | 61.19                       | 68.20           | -7.01        | 42.38                 | 18.81        | Peak    | 100               | 31                   |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5755 |
| Polarization | Vertical | Test Configuration | 1    |



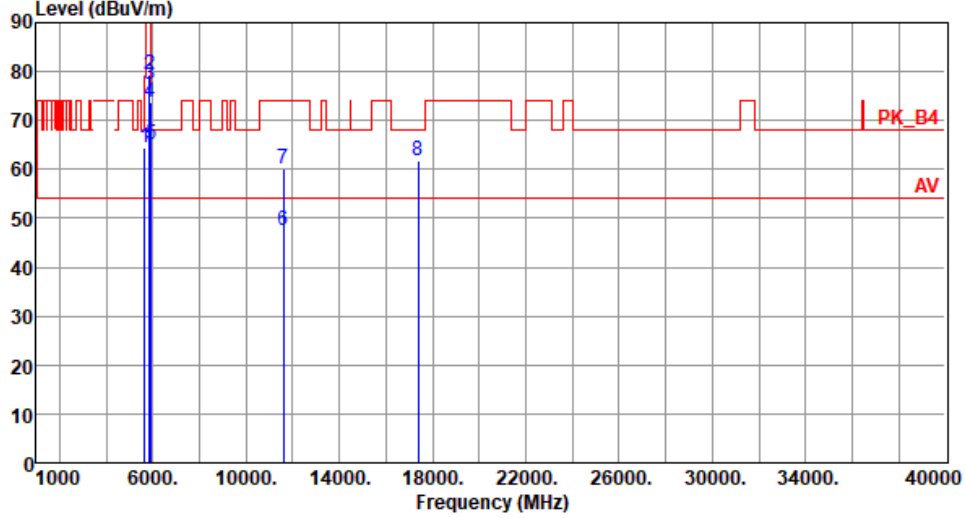
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 66.99                       | 68.20           | -1.21        | 59.60                 | 7.39         | Peak    | 182               | 265                  |
| 2 | 5700.00      | 75.68                       | 105.20          | -29.52       | 68.18                 | 7.50         | Peak    | 185               | 98                   |
| 3 | 5720.00      | 89.58                       | 110.80          | -21.22       | 81.96                 | 7.62         | Peak    | 185               | 98                   |
| 4 | 5725.00      | 90.67                       | 122.20          | -31.53       | 83.01                 | 7.66         | Peak    | 185               | 98                   |
| 5 | 5925.00      | 64.32                       | 68.20           | -3.88        | 56.25                 | 8.07         | Peak    | 185               | 98                   |
| 6 | 11510.00     | 49.00                       | 54.00           | -5.00        | 32.25                 | 16.75        | Average | 154               | 266                  |
| 7 | 11510.00     | 61.60                       | 74.00           | -12.40       | 44.85                 | 16.75        | Peak    | 154               | 266                  |
| 8 | 17265.00     | 61.03                       | 68.20           | -7.17        | 42.22                 | 18.81        | Peak    | 100               | 256                  |

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).

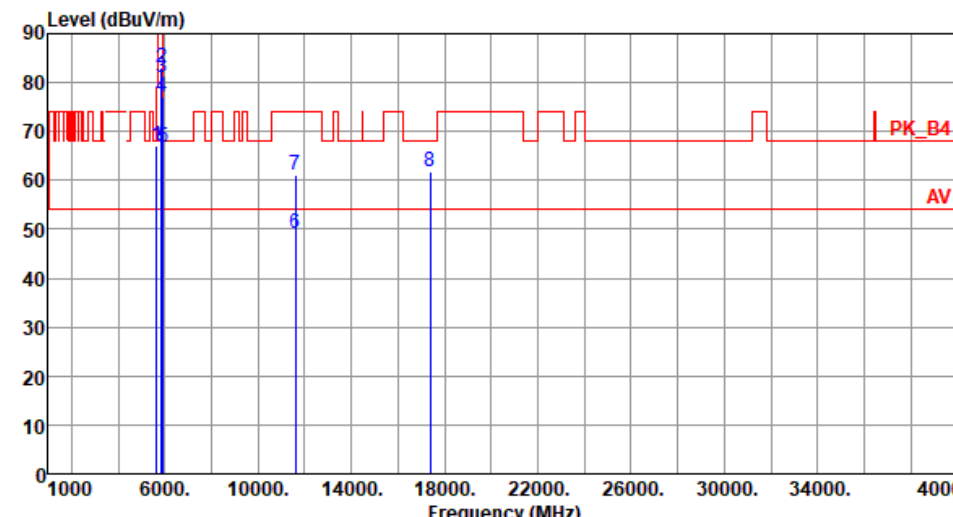
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5795 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5650.00      | 64.32                       | 68.20           | -3.88        | 56.93                 | 7.39         | Peak    | 172               | 49                   |
| 2 | 5850.00      | 79.22                       | 122.20          | -42.98       | 71.20                 | 8.02         | Peak    | 172               | 49                   |
| 3 | 5855.00      | 77.27                       | 110.80          | -33.53       | 69.25                 | 8.02         | Peak    | 172               | 49                   |
| 4 | 5875.00      | 73.65                       | 105.20          | -31.55       | 65.62                 | 8.03         | Peak    | 172               | 49                   |
| 5 | 5925.00      | 64.97                       | 68.20           | -3.23        | 56.90                 | 8.07         | Peak    | 172               | 49                   |
| 6 | 11590.00     | 47.40                       | 54.00           | -6.60        | 30.83                 | 16.57        | Average | 100               | 28                   |
| 7 | 11590.00     | 60.14                       | 74.00           | -13.86       | 43.57                 | 16.57        | Peak    | 100               | 28                   |
| 8 | 17385.00     | 61.82                       | 68.20           | -6.38        | 42.47                 | 19.35        | Peak    | 100               | 25                   |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5795 |
| Polarization | Vertical | Test Configuration | 1    |

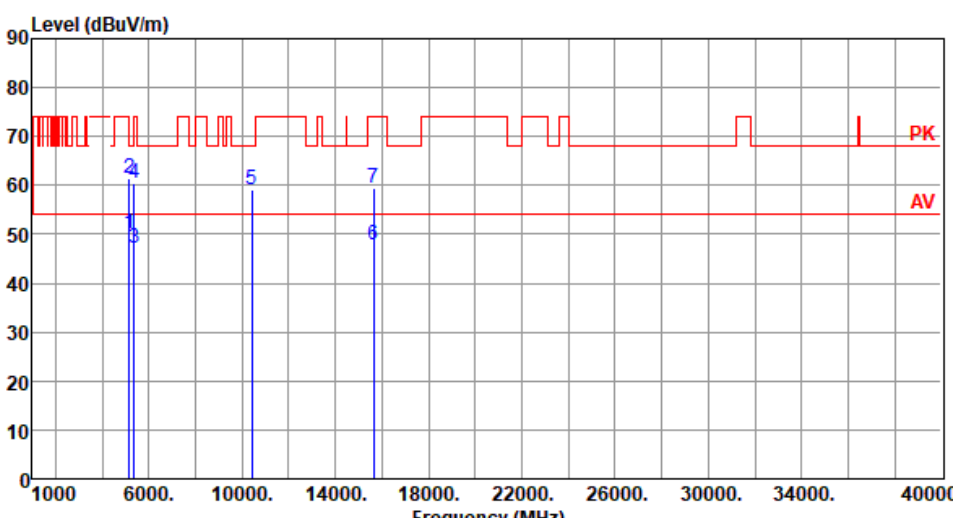
  


|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 67.11                       | 68.20           | -1.09        | 59.72                 | 7.39         | Peak    | 185               | 313                  |
| 2 | 5850.00      | 83.11                       | 122.20          | -39.09       | 75.09                 | 8.02         | Peak    | 179               | 99                   |
| 3 | 5855.00      | 81.15                       | 110.80          | -29.65       | 73.13                 | 8.02         | Peak    | 179               | 99                   |
| 4 | 5875.00      | 77.17                       | 105.20          | -28.03       | 69.14                 | 8.03         | Peak    | 179               | 99                   |
| 5 | 5925.00      | 66.90                       | 68.20           | -1.30        | 58.83                 | 8.07         | Peak    | 185               | 131                  |
| 6 | 11590.00     | 49.08                       | 54.00           | -4.92        | 32.51                 | 16.57        | Average | 157               | 269                  |
| 7 | 11590.00     | 61.14                       | 74.00           | -12.86       | 44.57                 | 16.57        | Peak    | 157               | 269                  |
| 8 | 17385.00     | 61.87                       | 68.20           | -6.33        | 42.52                 | 19.35        | Peak    | 100               | 266                  |

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).

### 3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

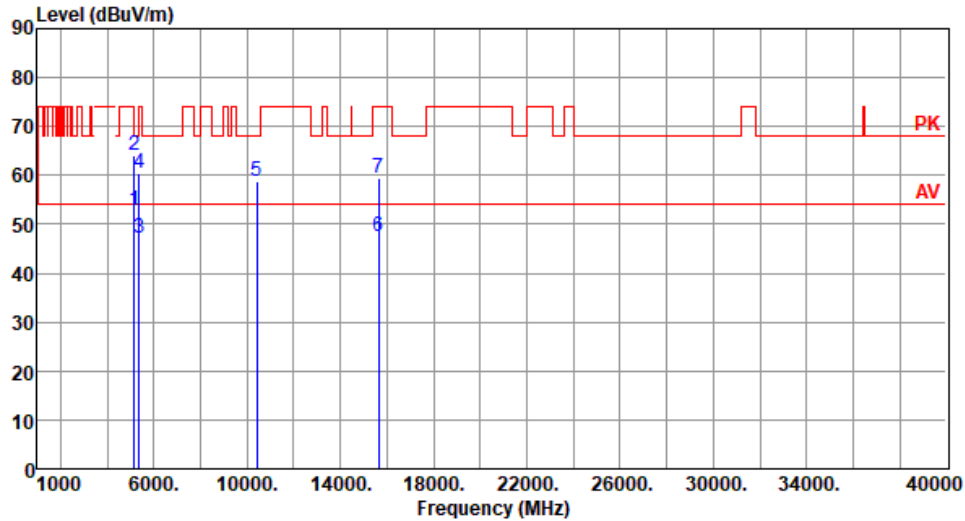
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT80      | Test Freq. (MHz)   | 5210 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5150.00      | 49.99                       | 54.00           | -4.01        | 42.67                 | 7.32         | Average | 204               | 62                   |
| 2 | 5150.00      | 61.58                       | 74.00           | -12.42       | 54.26                 | 7.32         | Peak    | 204               | 62                   |
| 3 | 5350.00      | 47.00                       | 54.00           | -7.00        | 40.15                 | 6.85         | Average | 204               | 62                   |
| 4 | 5350.00      | 60.32                       | 74.00           | -13.68       | 53.47                 | 6.85         | Peak    | 204               | 62                   |
| 5 | 10420.00     | 59.16                       | 68.20           | -9.04        | 42.85                 | 16.31        | Peak    | 100               | 136                  |
| 6 | 15630.00     | 47.73                       | 54.00           | -6.27        | 30.65                 | 17.08        | Average | 100               | 133                  |
| 7 | 15630.00     | 59.31                       | 74.00           | -14.69       | 42.23                 | 17.08        | Peak    | 100               | 133                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT80    | Test Freq. (MHz)   | 5210 |
| Polarization | Vertical | Test Configuration | 1    |



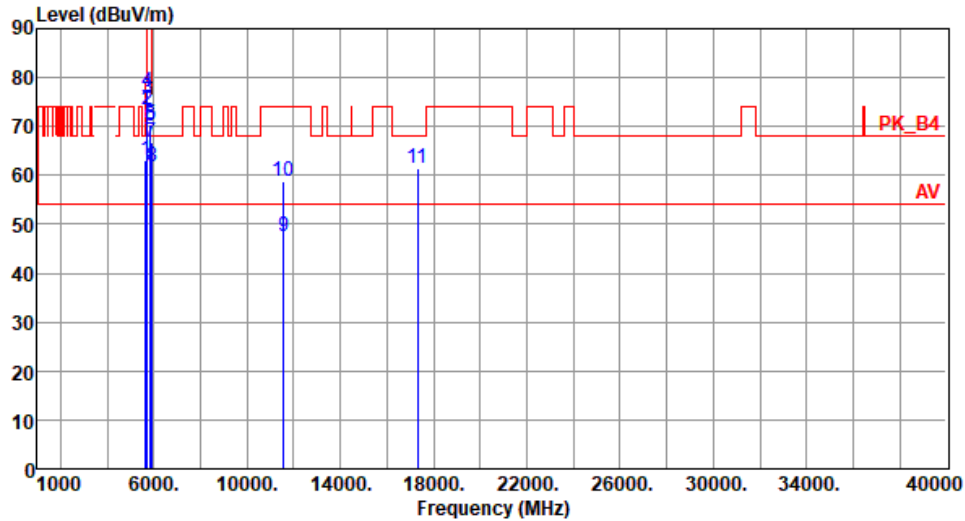
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 52.78                       | 54.00           | -1.22        | 45.46                 | 7.32         | Average | 224               | 105                  |
| 2 | 5150.00      | 64.18                       | 74.00           | -9.82        | 56.86                 | 7.32         | Peak    | 224               | 105                  |
| 3 | 5350.00      | 47.11                       | 54.00           | -6.89        | 40.26                 | 6.85         | Average | 224               | 105                  |
| 4 | 5350.00      | 60.40                       | 74.00           | -13.60       | 53.55                 | 6.85         | Peak    | 224               | 105                  |
| 5 | 10420.00     | 58.63                       | 68.20           | -9.57        | 42.32                 | 16.31        | Peak    | 100               | 149                  |
| 6 | 15630.00     | 47.48                       | 54.00           | -6.52        | 30.40                 | 17.08        | Average | 100               | 142                  |
| 7 | 15630.00     | 59.32                       | 74.00           | -14.68       | 42.24                 | 17.08        | Peak    | 100               | 142                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT80      | Test Freq. (MHz)   | 5775 |
| Polarization | Horizontal | Test Configuration | 1    |



|    | 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  | 5650.00      | 63.25                       | 68.20           | -4.95        | 55.86                 | 7.39         | Peak    | 185               | 43                   |
| 2  | 5700.00      | 73.29                       | 105.20          | -31.91       | 65.79                 | 7.50         | Peak    | 185               | 43                   |
| 3  | 5720.00      | 75.80                       | 110.80          | -35.00       | 68.18                 | 7.62         | Peak    | 185               | 43                   |
| 4  | 5725.00      | 77.13                       | 122.20          | -45.07       | 69.47                 | 7.66         | Peak    | 185               | 43                   |
| 5  | 5850.00      | 70.33                       | 122.20          | -51.87       | 62.31                 | 8.02         | Peak    | 185               | 43                   |
| 6  | 5855.00      | 70.07                       | 110.80          | -40.73       | 62.05                 | 8.02         | Peak    | 185               | 43                   |
| 7  | 5875.00      | 66.67                       | 105.20          | -38.53       | 58.64                 | 8.03         | Peak    | 185               | 43                   |
| 8  | 5925.00      | 61.74                       | 68.20           | -6.46        | 53.67                 | 8.07         | Peak    | 185               | 43                   |
| 9  | 11550.00     | 47.50                       | 54.00           | -6.50        | 30.84                 | 16.66        | Average | 100               | 29                   |
| 10 | 11550.00     | 58.91                       | 74.00           | -15.09       | 42.25                 | 16.66        | Peak    | 100               | 29                   |
| 11 | 17325.00     | 61.44                       | 68.20           | -6.76        | 42.35                 | 19.09        | Peak    | 100               | 32                   |

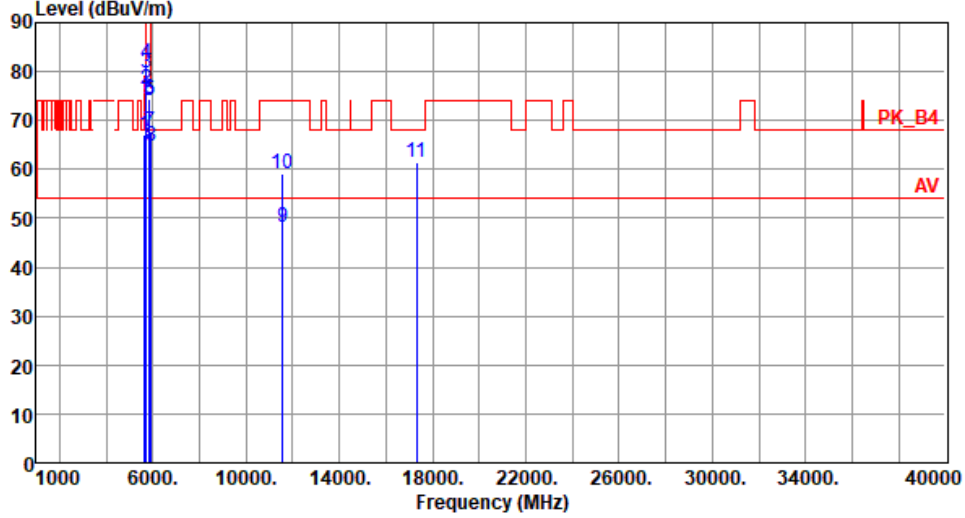
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

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

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT80    | Test Freq. (MHz)   | 5775 |
| Polarization | Vertical | Test Configuration | 1    |

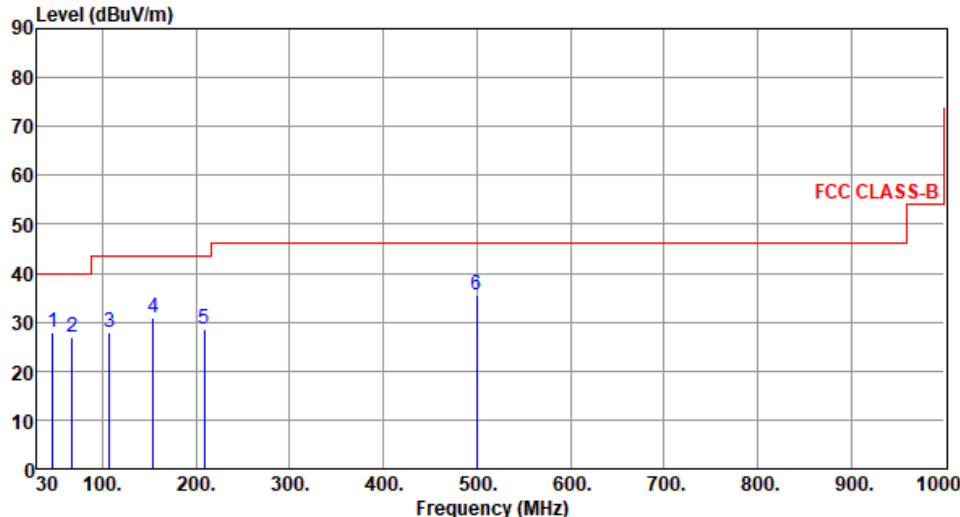
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 5650.00      | 66.97                       | 68.20           | -1.23        | 59.58                 | 7.39         | Peak    | 198               | 98                   |
| 2  | 5700.00      | 76.48                       | 105.20          | -28.72       | 68.98                 | 7.50         | Peak    | 198               | 98                   |
| 3  | 5720.00      | 79.67                       | 110.80          | -31.13       | 72.05                 | 7.62         | Peak    | 198               | 98                   |
| 4  | 5725.00      | 81.63                       | 122.20          | -40.57       | 73.97                 | 7.66         | Peak    | 198               | 98                   |
| 5  | 5850.00      | 74.07                       | 122.20          | -48.13       | 66.05                 | 8.02         | Peak    | 198               | 98                   |
| 6  | 5855.00      | 74.41                       | 110.80          | -36.39       | 66.39                 | 8.02         | Peak    | 198               | 98                   |
| 7  | 5875.00      | 67.63                       | 105.20          | -37.57       | 59.60                 | 8.03         | Peak    | 198               | 98                   |
| 8  | 5925.00      | 64.80                       | 68.20           | -3.40        | 56.73                 | 8.07         | Peak    | 198               | 98                   |
| 9  | 11550.00     | 48.21                       | 54.00           | -5.79        | 31.55                 | 16.66        | Average | 100               | 255                  |
| 10 | 11550.00     | 59.02                       | 74.00           | -14.98       | 42.36                 | 16.66        | Peak    | 100               | 255                  |
| 11 | 17325.00     | 61.53                       | 68.20           | -6.67        | 42.44                 | 19.09        | Peak    | 100               | 251                  |

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).

## Beamforming mode

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

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5240 |
| Polarization | Horizontal | Test Configuration | 1    |

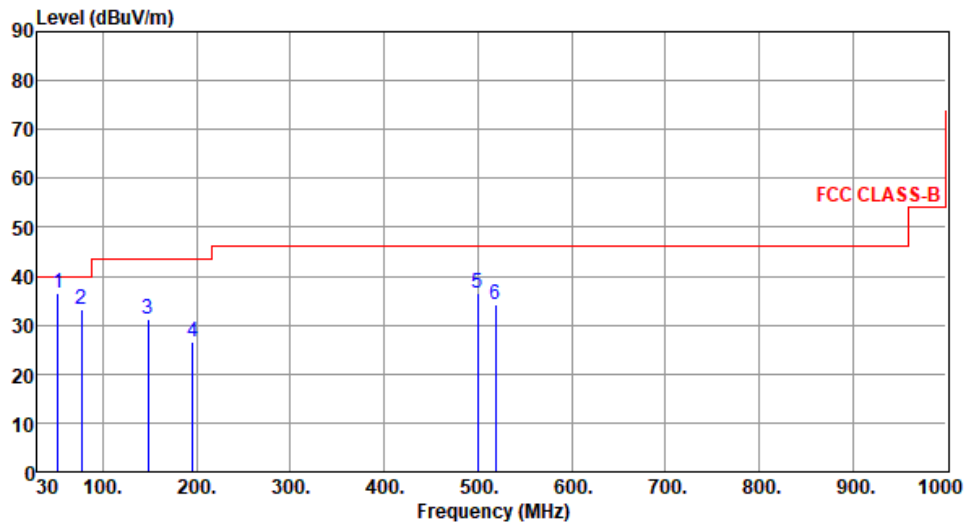
  


The graph displays the emission level in dBuV/m on the y-axis (0 to 90) against frequency in MHz on the x-axis (30 to 1000). A red line represents the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 200 MHz, and 50 dBuV/m from 200 to 1000 MHz. Six blue vertical lines indicate measured peaks at frequencies 1, 2, 3, 4, 5, and 6. The peak at 500 MHz (labeled 6) is the highest, reaching approximately 38.72 dBuV/m.

|   | 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 | 46.49        | 27.92                       | 40.00           | -12.08       | 36.52                 | -8.60        | Peak   | ---               | ---                  |
| 2 | 67.83        | 26.85                       | 40.00           | -13.15       | 37.14                 | -10.29       | Peak   | ---               | ---                  |
| 3 | 107.60       | 28.06                       | 43.50           | -15.44       | 40.44                 | -12.38       | Peak   | ---               | ---                  |
| 4 | 154.16       | 31.02                       | 43.50           | -12.48       | 39.63                 | -8.61        | Peak   | ---               | ---                  |
| 5 | 208.48       | 28.48                       | 43.50           | -15.02       | 40.53                 | -12.05       | Peak   | ---               | ---                  |
| 6 | 499.48       | 35.67                       | 46.00           | -10.33       | 38.72                 | -3.05        | 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.

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5240 |
| Polarization | Vertical | Test Configuration | 1    |



|   | 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 | 52.31        | 36.46                       | 40.00           | -3.54        | 45.16                 | -8.70        | Peak   | ---               | ---                  |
| 2 | 77.53        | 33.35                       | 40.00           | -6.65        | 46.21                 | -12.86       | Peak   | ---               | ---                  |
| 3 | 148.34       | 31.33                       | 43.50           | -12.17       | 40.08                 | -8.75        | Peak   | ---               | ---                  |
| 4 | 195.87       | 26.62                       | 43.50           | -16.88       | 38.41                 | -11.79       | Peak   | ---               | ---                  |
| 5 | 499.48       | 36.69                       | 46.00           | -9.31        | 39.74                 | -3.05        | Peak   | ---               | ---                  |
| 6 | 518.88       | 34.08                       | 46.00           | -11.92       | 36.67                 | -2.59        | Peak   | ---               | ---                  |

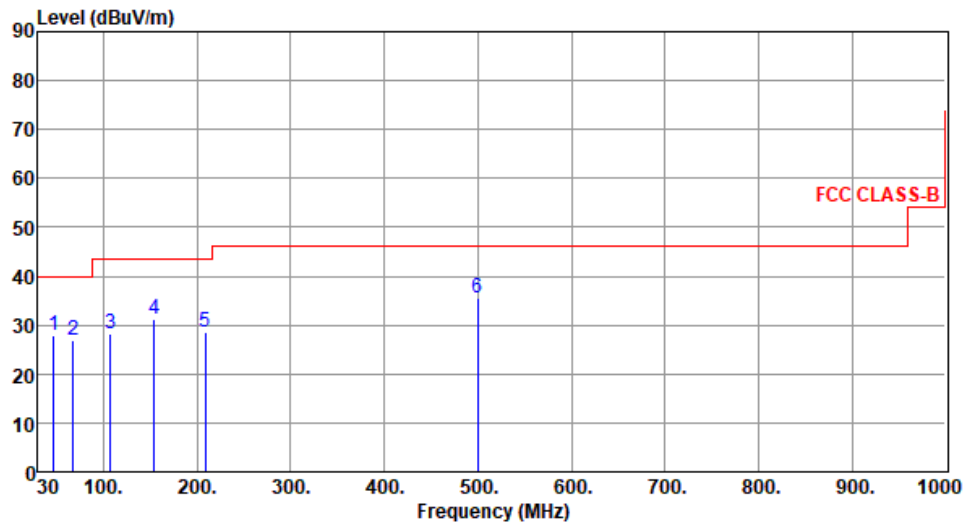
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5795 |
| Polarization | Horizontal | Test Configuration | 1    |



|   | 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 | 46.53        | 27.88                       | 40.00           | -12.12       | 36.48                 | -8.60        | Peak   | ---               | ---                  |
| 2 | 67.74        | 26.79                       | 40.00           | -13.21       | 37.08                 | -10.29       | Peak   | ---               | ---                  |
| 3 | 107.55       | 28.21                       | 43.50           | -15.29       | 40.60                 | -12.39       | Peak   | ---               | ---                  |
| 4 | 154.21       | 31.23                       | 43.50           | -12.27       | 39.84                 | -8.61        | Peak   | ---               | ---                  |
| 5 | 208.55       | 28.54                       | 43.50           | -14.96       | 40.59                 | -12.05       | Peak   | ---               | ---                  |
| 6 | 499.59       | 35.53                       | 46.00           | -10.47       | 38.58                 | -3.05        | Peak   | ---               | ---                  |

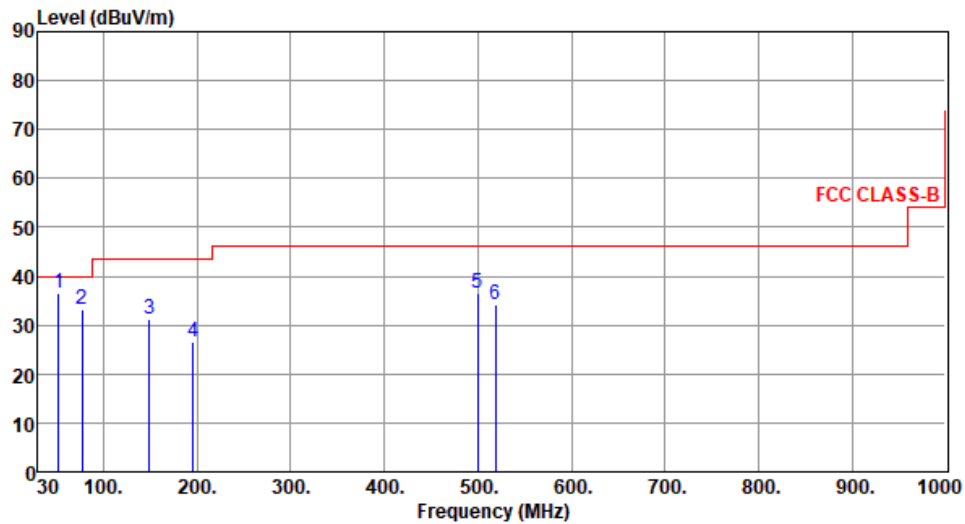
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5795 |
| Polarization | Vertical | Test Configuration | 1    |



|   | 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 | 52.25        | 36.52                       | 40.00           | -3.48        | 45.23                 | -8.71        | Peak   | ---               | ---                  |
| 2 | 77.49        | 33.21                       | 40.00           | -6.79        | 46.07                 | -12.86       | Peak   | ---               | ---                  |
| 3 | 148.58       | 31.24                       | 43.50           | -12.26       | 39.99                 | -8.75        | Peak   | ---               | ---                  |
| 4 | 195.69       | 26.53                       | 43.50           | -16.97       | 38.32                 | -11.79       | Peak   | ---               | ---                  |
| 5 | 499.51       | 36.54                       | 46.00           | -9.46        | 39.59                 | -3.05        | Peak   | ---               | ---                  |
| 6 | 518.79       | 34.25                       | 46.00           | -11.75       | 36.84                 | -2.59        | Peak   | ---               | ---                  |

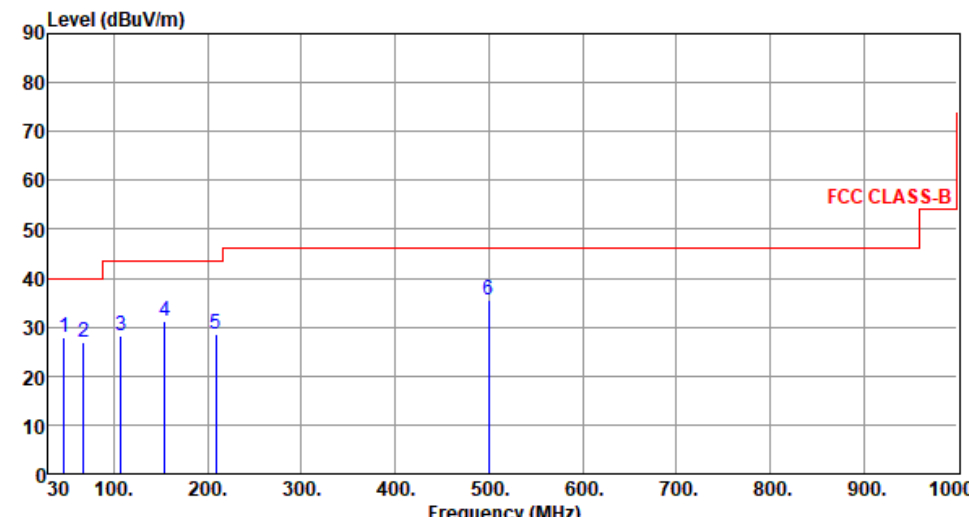
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

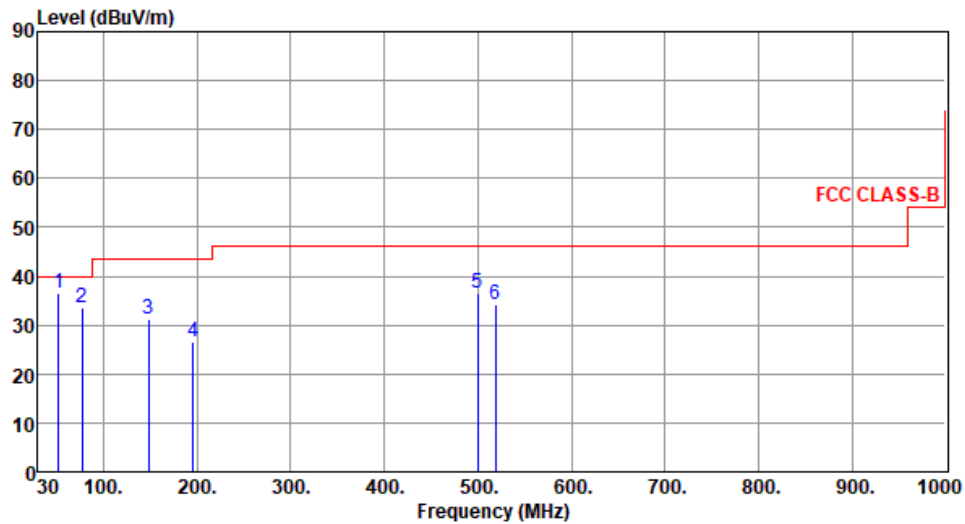
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5240 |
| Polarization | Horizontal | Test Configuration | 2    |

|   | 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 | 46.53        | 27.86                       | 40.00           | -12.14       | 36.46                 | -8.60        | Peak   | ---               | ---                  |
| 2 | 67.79        | 26.75                       | 40.00           | -13.25       | 37.04                 | -10.29       | Peak   | ---               | ---                  |
| 3 | 107.53       | 28.14                       | 43.50           | -15.36       | 40.53                 | -12.39       | Peak   | ---               | ---                  |
| 4 | 154.26       | 31.29                       | 43.50           | -12.21       | 39.89                 | -8.60        | Peak   | ---               | ---                  |
| 5 | 208.55       | 28.58                       | 43.50           | -14.92       | 40.63                 | -12.05       | Peak   | ---               | ---                  |
| 6 | 499.48       | 35.49                       | 46.00           | -10.51       | 38.54                 | -3.05        | 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.

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5240 |
| Polarization | Vertical | Test Configuration | 2    |



|   | 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 | 52.22        | 36.37                       | 40.00           | -3.63        | 45.08                 | -8.71        | Peak   | ---               | ---                  |
| 2 | 77.49        | 33.48                       | 40.00           | -6.52        | 46.34                 | -12.86       | Peak   | ---               | ---                  |
| 3 | 148.42       | 31.21                       | 43.50           | -12.29       | 39.96                 | -8.75        | Peak   | ---               | ---                  |
| 4 | 195.69       | 26.58                       | 43.50           | -16.92       | 38.37                 | -11.79       | Peak   | ---               | ---                  |
| 5 | 499.51       | 36.67                       | 46.00           | -9.33        | 39.72                 | -3.05        | Peak   | ---               | ---                  |
| 6 | 518.79       | 34.28                       | 46.00           | -11.72       | 36.87                 | -2.59        | Peak   | ---               | ---                  |

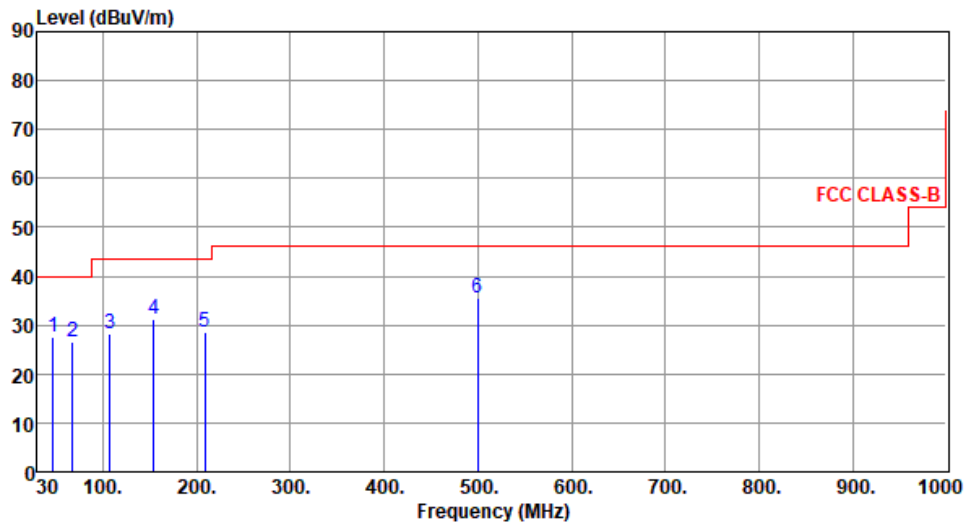
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5795 |
| Polarization | Horizontal | Test Configuration | 2    |



|   | 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 | 46.48        | 27.71                       | 40.00           | -12.29       | 36.31                 | -8.60        | Peak   | ---               | ---                  |
| 2 | 67.69        | 26.63                       | 40.00           | -13.37       | 36.92                 | -10.29       | Peak   | ---               | ---                  |
| 3 | 107.48       | 28.25                       | 43.50           | -15.25       | 40.64                 | -12.39       | Peak   | ---               | ---                  |
| 4 | 154.31       | 31.16                       | 43.50           | -12.34       | 39.76                 | -8.60        | Peak   | ---               | ---                  |
| 5 | 208.49       | 28.42                       | 43.50           | -15.08       | 40.47                 | -12.05       | Peak   | ---               | ---                  |
| 6 | 499.51       | 35.54                       | 46.00           | -10.46       | 38.59                 | -3.05        | Peak   | ---               | ---                  |

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

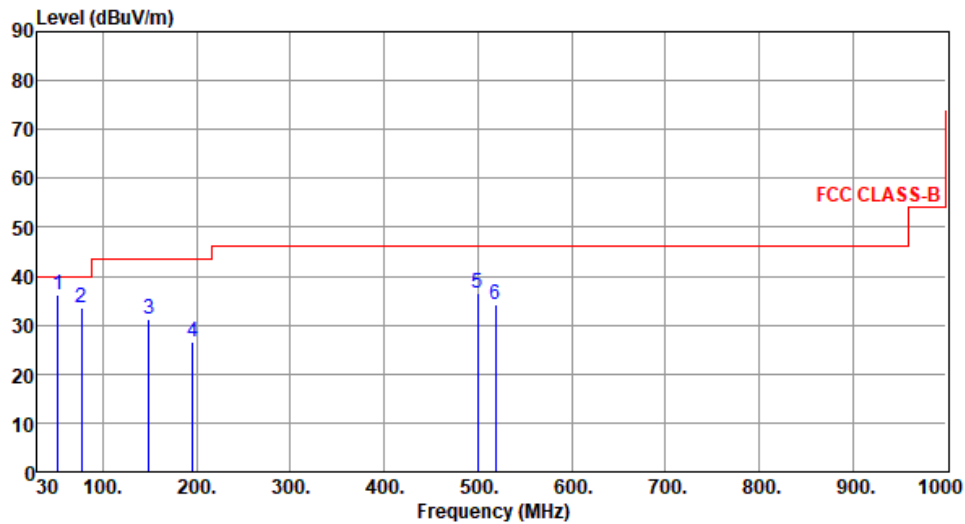
\*Factor includes antenna factor , cable loss and amplifier gain

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.



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5795 |
| Polarization | Vertical | Test Configuration | 2    |



|   | 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 | 52.31        | 36.34                       | 40.00           | -3.66        | 45.04                 | -8.70        | Peak   | ---               | ---                  |
| 2 | 77.51        | 33.52                       | 40.00           | -6.48        | 46.37                 | -12.85       | Peak   | ---               | ---                  |
| 3 | 148.58       | 31.17                       | 43.50           | -12.33       | 39.92                 | -8.75        | Peak   | ---               | ---                  |
| 4 | 195.86       | 26.53                       | 43.50           | -16.97       | 38.32                 | -11.79       | Peak   | ---               | ---                  |
| 5 | 499.51       | 36.54                       | 46.00           | -9.46        | 39.59                 | -3.05        | Peak   | ---               | ---                  |
| 6 | 518.69       | 34.31                       | 46.00           | -11.69       | 36.91                 | -2.60        | Peak   | ---               | ---                  |

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

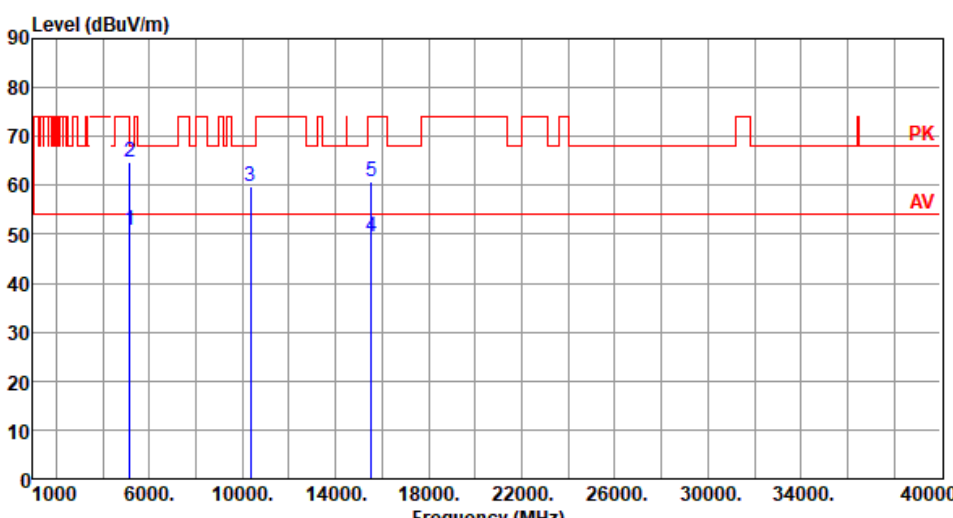
\*Factor includes antenna factor , cable loss and amplifier gain

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.

### 3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

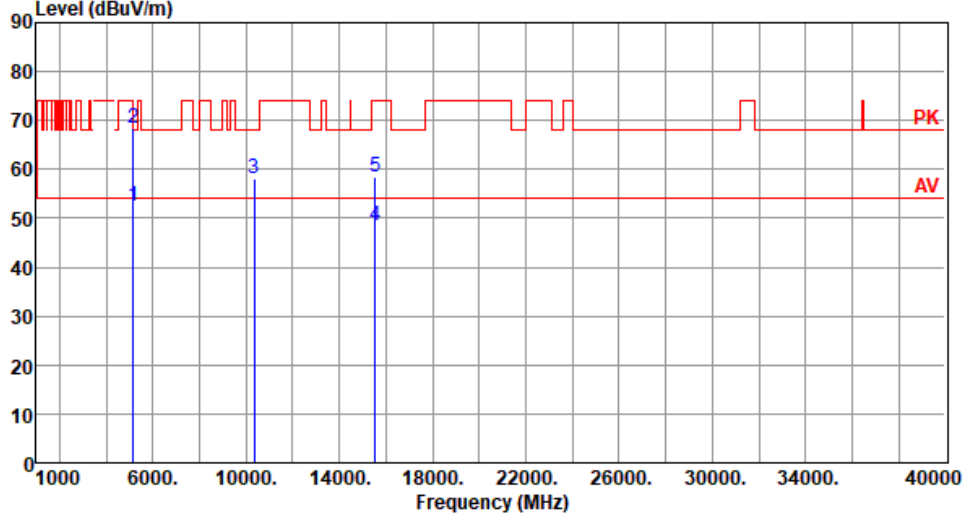
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5180 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5150.00      | 50.84                       | 54.00           | -3.16        | 43.52                 | 7.32         | Average | 200               | 26                   |
| 2 | 5150.00      | 64.86                       | 74.00           | -9.14        | 57.54                 | 7.32         | Peak    | 200               | 26                   |
| 3 | 10360.00     | 59.67                       | 68.20           | -8.53        | 43.58                 | 16.09        | Peak    | 100               | 105                  |
| 4 | 15540.00     | 49.62                       | 54.00           | -4.38        | 32.25                 | 17.37        | Average | 100               | 107                  |
| 5 | 15540.00     | 60.62                       | 74.00           | -13.38       | 43.25                 | 17.37        | Peak    | 100               | 107                  |

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).

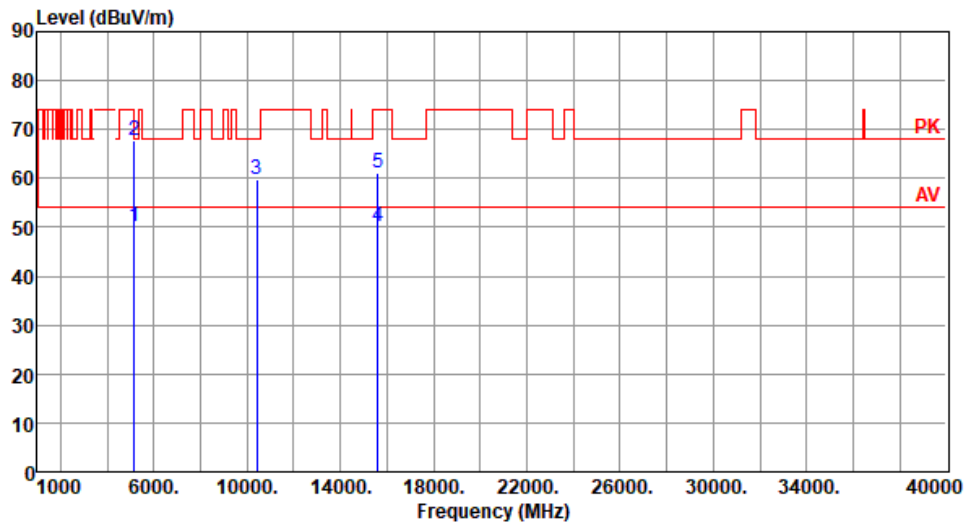
|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5180 |
| Polarization | Vertical | Test Configuration | 1    |

|   | 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 | 5150.00      | 52.47                       | 54.00           | -1.53        | 45.15                 | 7.32         | Average | 196               | 111                  |
| 2 | 5150.00      | 68.26                       | 74.00           | -5.74        | 60.94                 | 7.32         | Peak    | 196               | 111                  |
| 3 | 10360.00     | 57.97                       | 68.20           | -10.23       | 41.88                 | 16.09        | Peak    | 100               | 50                   |
| 4 | 15540.00     | 48.62                       | 54.00           | -5.38        | 31.25                 | 17.37        | Average | 100               | 55                   |
| 5 | 15540.00     | 58.60                       | 74.00           | -15.40       | 41.23                 | 17.37        | Peak    | 100               | 55                   |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5200 |
| Polarization | Horizontal | Test Configuration | 1    |



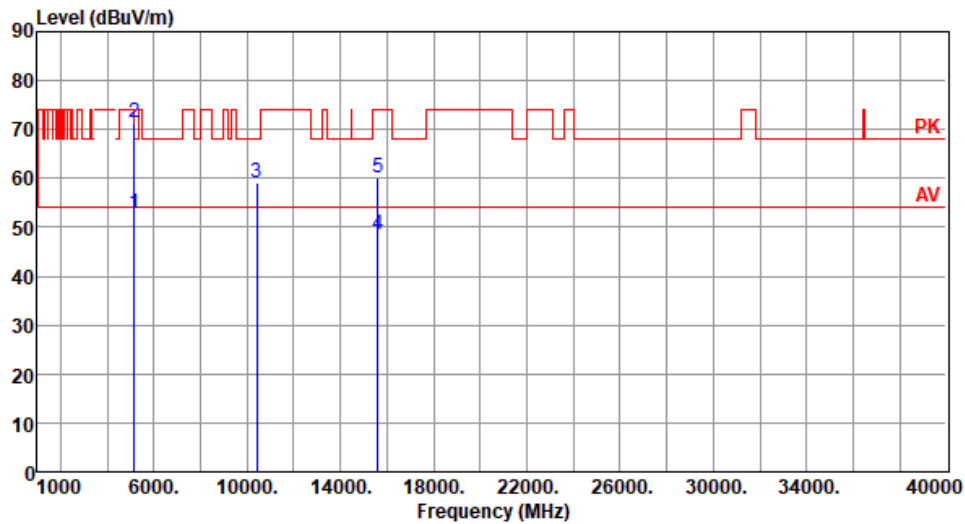
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 50.00                       | 54.00           | -4.00        | 42.68                 | 7.32         | Average | 203               | 24                   |
| 2 | 5150.00      | 67.89                       | 74.00           | -6.11        | 60.57                 | 7.32         | Peak    | 203               | 24                   |
| 3 | 10400.00     | 59.86                       | 68.20           | -8.34        | 43.58                 | 16.28        | Peak    | 100               | 107                  |
| 4 | 15600.00     | 50.15                       | 54.00           | -3.85        | 32.88                 | 17.27        | Average | 100               | 104                  |
| 5 | 15600.00     | 61.23                       | 74.00           | -12.77       | 43.96                 | 17.27        | Peak    | 100               | 104                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5200 |
| Polarization | Vertical | Test Configuration | 1    |



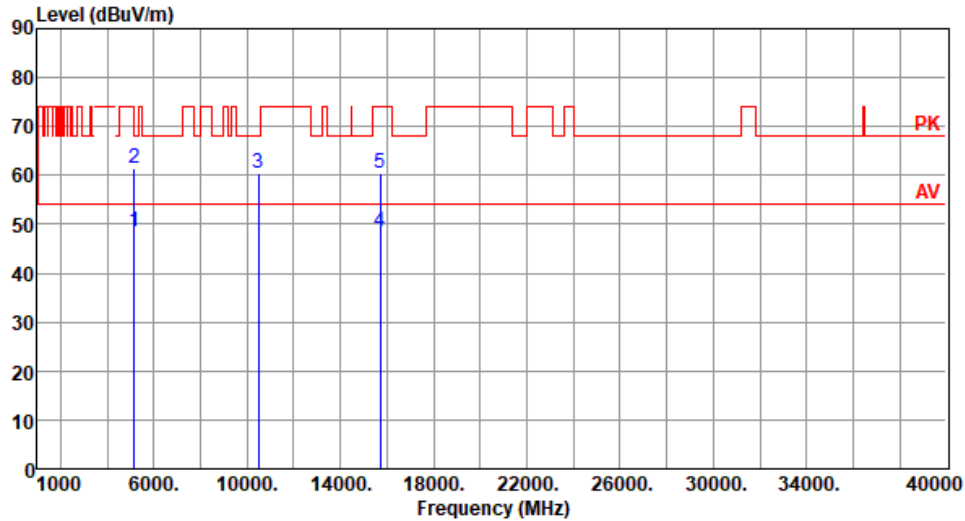
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 52.84                       | 54.00           | -1.16        | 45.52                 | 7.32         | Average | 161               | 86                   |
| 2 | 5150.00      | 71.47                       | 74.00           | -2.53        | 64.15                 | 7.32         | Peak    | 161               | 86                   |
| 3 | 10400.00     | 59.13                       | 68.20           | -9.07        | 42.85                 | 16.28        | Peak    | 100               | 53                   |
| 4 | 15600.00     | 48.56                       | 54.00           | -5.44        | 31.29                 | 17.27        | Average | 100               | 51                   |
| 5 | 15600.00     | 60.04                       | 74.00           | -13.96       | 42.77                 | 17.27        | Peak    | 100               | 51                   |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5240 |
| Polarization | Horizontal | Test Configuration | 1    |



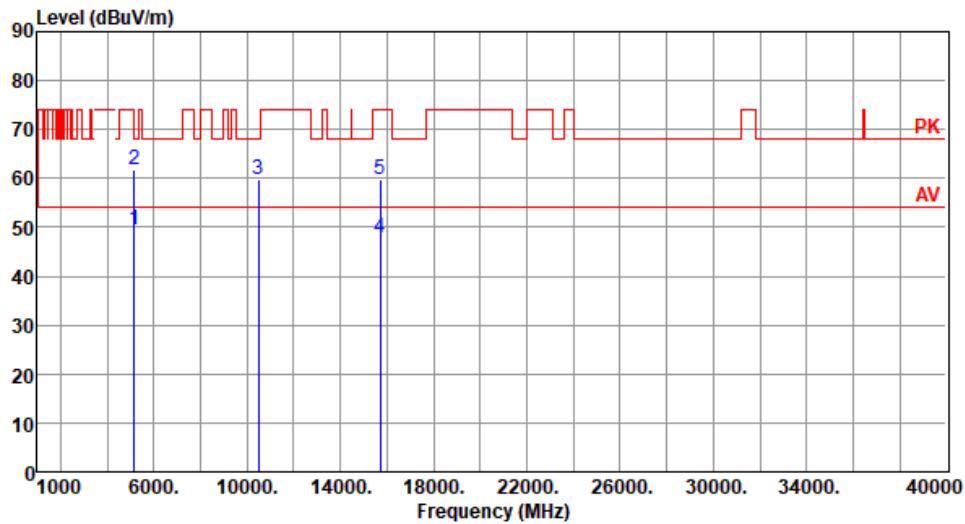
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 48.56                       | 54.00           | -5.44        | 41.24                 | 7.32         | Average | 201               | 25                   |
| 2 | 5150.00      | 61.42                       | 74.00           | -12.58       | 54.10                 | 7.32         | Peak    | 201               | 25                   |
| 3 | 10480.00     | 60.40                       | 68.20           | -7.80        | 43.99                 | 16.41        | Peak    | 100               | 102                  |
| 4 | 15720.00     | 48.60                       | 54.00           | -5.40        | 32.00                 | 16.60        | Average | 100               | 101                  |
| 5 | 15720.00     | 60.30                       | 74.00           | -13.70       | 43.70                 | 16.60        | Peak    | 100               | 101                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5240 |
| Polarization | Vertical | Test Configuration | 1    |



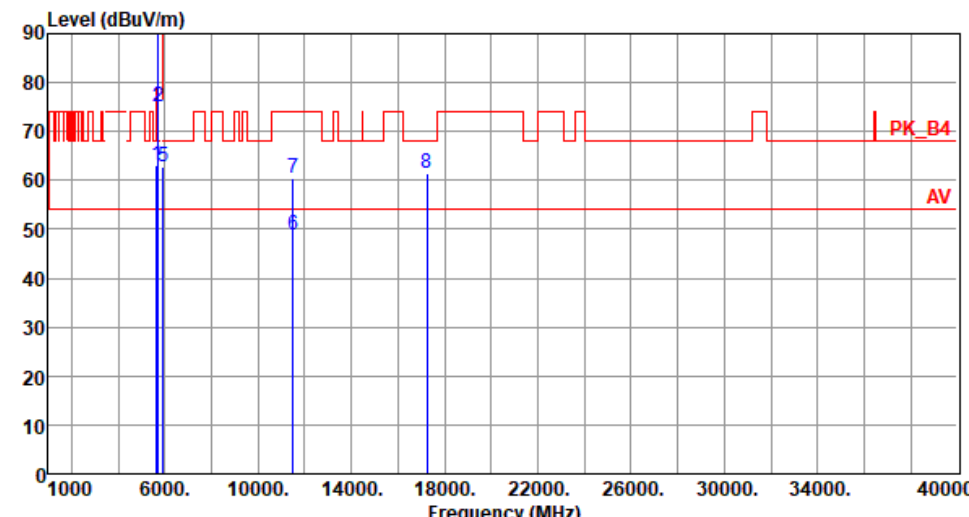
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 49.36                       | 54.00           | -4.64        | 42.04                 | 7.32         | Average | 206               | 112                  |
| 2 | 5150.00      | 61.67                       | 74.00           | -12.33       | 54.35                 | 7.32         | Peak    | 206               | 112                  |
| 3 | 10480.00     | 59.67                       | 68.20           | -8.53        | 43.26                 | 16.41        | Peak    | 100               | 30                   |
| 4 | 15720.00     | 47.75                       | 54.00           | -6.25        | 31.15                 | 16.60        | Average | 100               | 60                   |
| 5 | 15720.00     | 59.62                       | 74.00           | -14.38       | 43.02                 | 16.60        | Peak    | 100               | 60                   |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 1    |

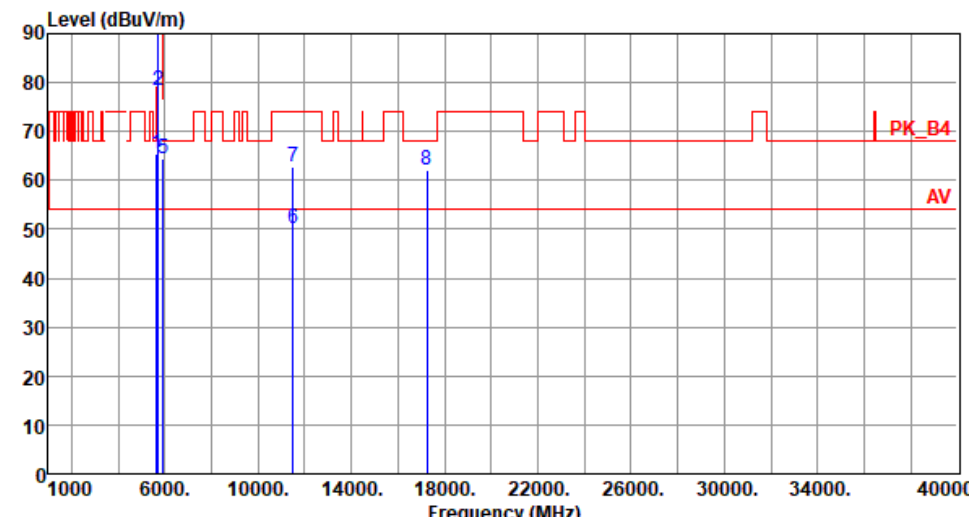
  


|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 63.24                       | 68.20           | -4.96        | 55.85                 | 7.39         | Peak    | 214               | 26                   |
| 2 | 5700.00      | 75.08                       | 105.20          | -30.12       | 67.58                 | 7.50         | Peak    | 214               | 26                   |
| 3 | 5720.00      | 88.87                       | 110.80          | -21.93       | 81.25                 | 7.62         | Peak    | 214               | 26                   |
| 4 | 5725.00      | 95.90                       | 122.20          | -26.30       | 88.24                 | 7.66         | Peak    | 214               | 26                   |
| 5 | 5925.00      | 62.66                       | 68.20           | -5.54        | 54.59                 | 8.07         | Peak    | 214               | 26                   |
| 6 | 11490.00     | 48.94                       | 54.00           | -5.06        | 32.18                 | 16.76        | Average | 100               | 108                  |
| 7 | 11490.00     | 60.43                       | 74.00           | -13.57       | 43.67                 | 16.76        | Peak    | 100               | 108                  |
| 8 | 17235.00     | 61.41                       | 68.20           | -6.79        | 42.77                 | 18.64        | Peak    | 100               | 104                  |

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).



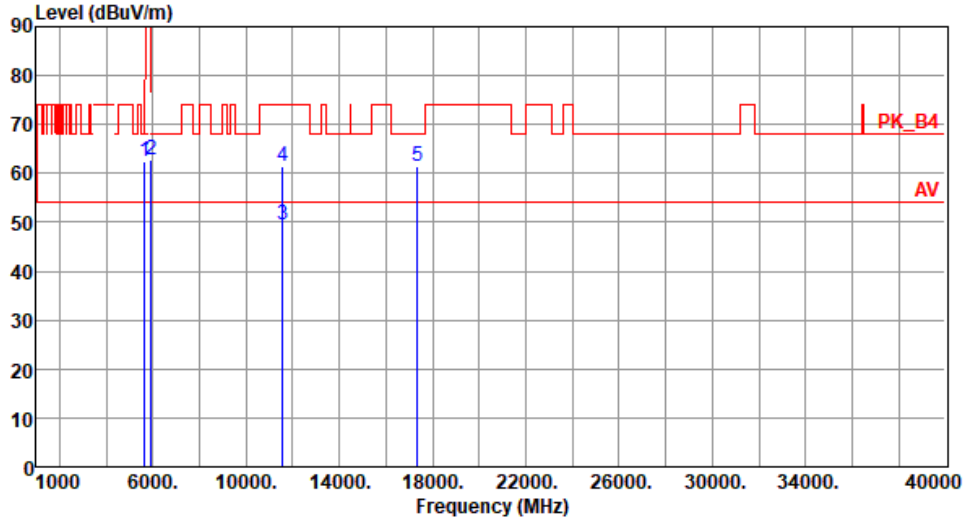
|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 1    |

|   | 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 | 5650.00      | 65.50                       | 68.20           | -2.70        | 58.11                 | 7.39         | Peak    | 192               | 94                   |
| 2 | 5700.00      | 78.37                       | 105.20          | -26.83       | 70.87                 | 7.50         | Peak    | 192               | 94                   |
| 3 | 5720.00      | 92.10                       | 110.80          | -18.70       | 84.48                 | 7.62         | Peak    | 192               | 94                   |
| 4 | 5725.00      | 99.15                       | 122.20          | -23.05       | 91.49                 | 7.66         | Peak    | 192               | 94                   |
| 5 | 5925.00      | 64.37                       | 68.20           | -3.83        | 56.30                 | 8.07         | Peak    | 192               | 94                   |
| 6 | 11490.00     | 50.28                       | 54.00           | -3.72        | 33.52                 | 16.76        | Average | 170               | 260                  |
| 7 | 11490.00     | 62.65                       | 74.00           | -11.35       | 45.89                 | 16.76        | Peak    | 170               | 260                  |
| 8 | 17235.00     | 62.23                       | 68.20           | -5.97        | 43.59                 | 18.64        | Peak    | 100               | 52                   |

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).

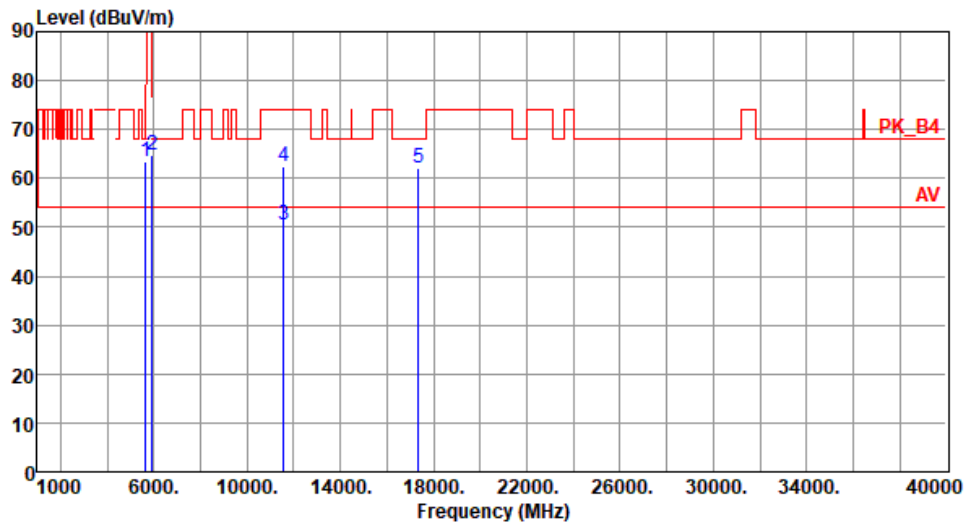
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5650.00      | 62.27                       | 68.20           | -5.93        | 54.88                 | 7.39         | Peak    | 209               | 26                   |
| 2 | 5925.00      | 62.71                       | 68.20           | -5.49        | 54.64                 | 8.07         | Peak    | 209               | 26                   |
| 3 | 11570.00     | 49.49                       | 54.00           | -4.51        | 32.88                 | 16.61        | Average | 100               | 108                  |
| 4 | 11570.00     | 61.48                       | 74.00           | -12.52       | 44.87                 | 16.61        | Peak    | 100               | 108                  |
| 5 | 17355.00     | 61.50                       | 68.20           | -6.70        | 42.27                 | 19.23        | Peak    | 100               | 104                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 1    |



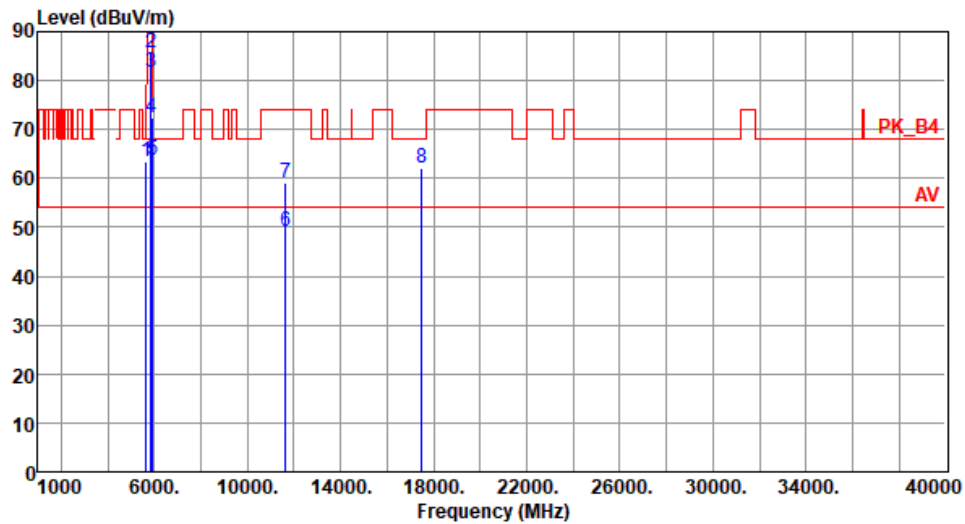
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 63.27                       | 68.20           | -4.93        | 55.88                 | 7.39         | Peak    | 20                | 105                  |
| 2 | 5925.00      | 64.71                       | 68.20           | -3.49        | 56.64                 | 8.07         | Peak    | 20                | 105                  |
| 3 | 11570.00     | 50.37                       | 54.00           | -3.63        | 33.76                 | 16.61        | Average | 172               | 261                  |
| 4 | 11570.00     | 62.30                       | 74.00           | -11.70       | 45.69                 | 16.61        | Peak    | 172               | 261                  |
| 5 | 17355.00     | 62.17                       | 68.20           | -6.03        | 42.94                 | 19.23        | 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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 1    |



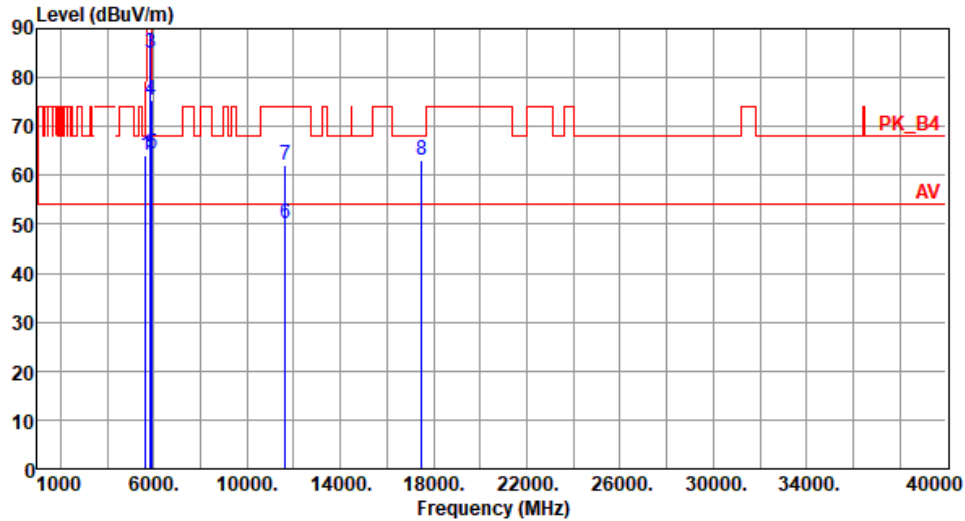
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 63.27                       | 68.20           | -4.93        | 55.88                 | 7.39         | Peak    | 202               | 27                   |
| 2 | 5850.00      | 85.54                       | 122.20          | -36.66       | 77.52                 | 8.02         | Peak    | 202               | 27                   |
| 3 | 5855.00      | 81.54                       | 110.80          | -29.26       | 73.52                 | 8.02         | Peak    | 202               | 27                   |
| 4 | 5875.00      | 72.27                       | 105.20          | -32.93       | 64.24                 | 8.03         | Peak    | 202               | 27                   |
| 5 | 5925.00      | 63.60                       | 68.20           | -4.60        | 55.53                 | 8.07         | Peak    | 202               | 27                   |
| 6 | 11650.00     | 49.09                       | 54.00           | -4.91        | 32.71                 | 16.38        | Average | 100               | 107                  |
| 7 | 11650.00     | 59.25                       | 74.00           | -14.75       | 42.87                 | 16.38        | Peak    | 100               | 107                  |
| 8 | 17475.00     | 62.21                       | 68.20           | -5.99        | 42.47                 | 19.74        | Peak    | 100               | 105                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 1    |



|   | 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 | 5650.00      | 64.15                       | 68.20           | -4.05        | 56.76                 | 7.39         | Peak    | 211               | 104                  |
| 2 | 5850.00      | 88.87                       | 122.20          | -33.33       | 80.85                 | 8.02         | Peak    | 211               | 104                  |
| 3 | 5855.00      | 84.97                       | 110.80          | -25.83       | 76.95                 | 8.02         | Peak    | 211               | 104                  |
| 4 | 5875.00      | 75.44                       | 105.20          | -29.76       | 67.41                 | 8.03         | Peak    | 211               | 104                  |
| 5 | 5925.00      | 64.49                       | 68.20           | -3.71        | 56.42                 | 8.07         | Peak    | 211               | 104                  |
| 6 | 11650.00     | 50.26                       | 54.00           | -3.74        | 33.88                 | 16.38        | Average | 177               | 266                  |
| 7 | 11650.00     | 62.26                       | 74.00           | -11.74       | 45.88                 | 16.38        | Peak    | 177               | 266                  |
| 8 | 17475.00     | 62.99                       | 68.20           | -5.21        | 43.25                 | 19.74        | Peak    | 100               | 58                   |

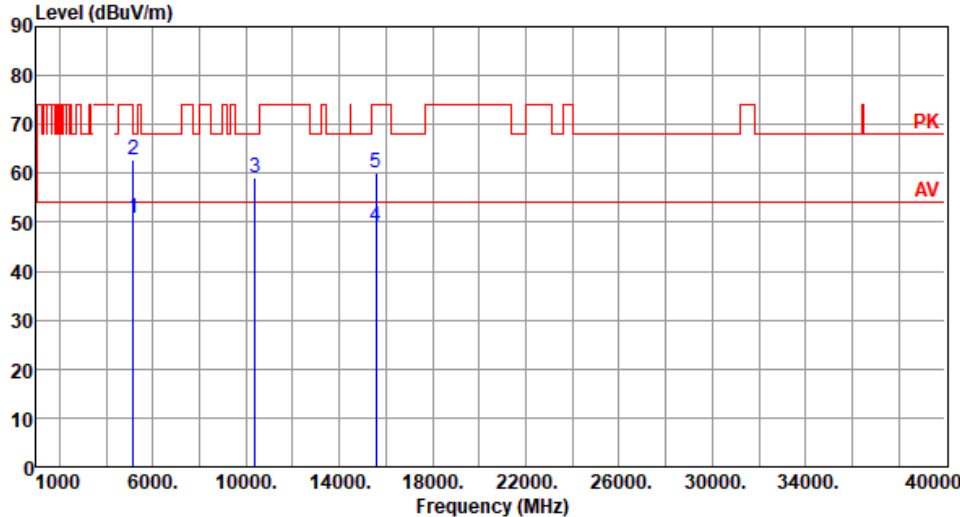
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

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

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

### 3.5.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

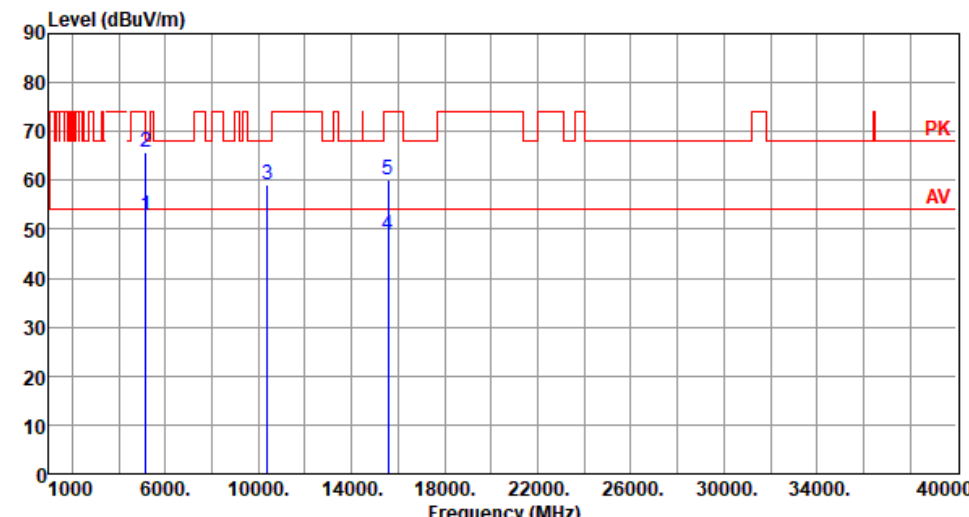
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5190 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5150.00      | 50.90                       | 54.00           | -3.10        | 43.58                 | 7.32         | Average | 206               | 26                   |
| 2 | 5150.00      | 62.86                       | 74.00           | -11.14       | 55.54                 | 7.32         | Peak    | 206               | 26                   |
| 3 | 10380.00     | 58.97                       | 68.20           | -9.23        | 42.79                 | 16.18        | Peak    | 100               | 104                  |
| 4 | 15570.00     | 49.05                       | 54.00           | -4.95        | 31.73                 | 17.32        | Average | 100               | 101                  |
| 5 | 15570.00     | 60.08                       | 74.00           | -13.92       | 42.76                 | 17.32        | Peak    | 100               | 101                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5190 |
| Polarization | Vertical | Test Configuration | 1    |

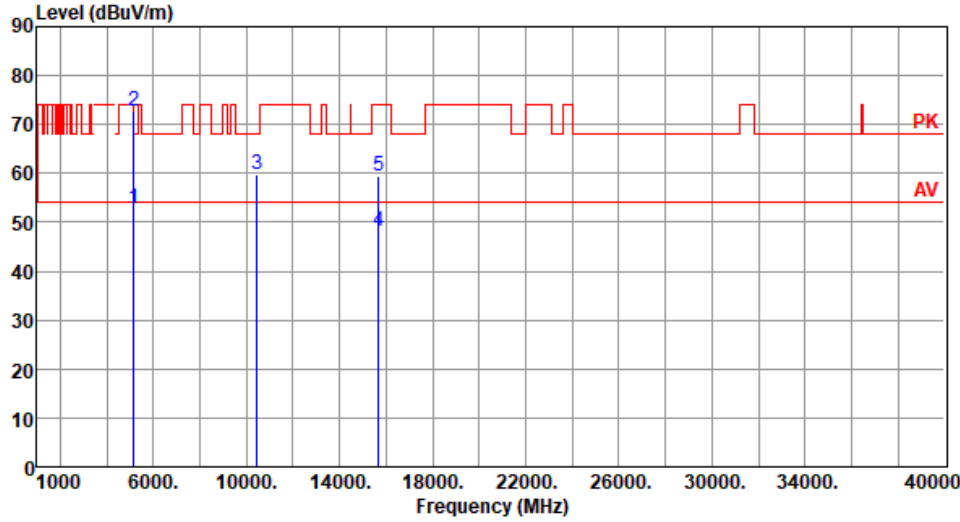
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 52.83                       | 54.00           | -1.17        | 45.51                 | 7.32         | Average | 184               | 101                  |
| 2 | 5150.00      | 65.74                       | 74.00           | -8.26        | 58.42                 | 7.32         | Peak    | 184               | 101                  |
| 3 | 10380.00     | 59.07                       | 68.20           | -9.13        | 42.89                 | 16.18        | Peak    | 100               | 58                   |
| 4 | 15570.00     | 48.76                       | 54.00           | -5.24        | 31.44                 | 17.32        | Average | 100               | 56                   |
| 5 | 15570.00     | 60.09                       | 74.00           | -13.91       | 42.77                 | 17.32        | Peak    | 100               | 56                   |

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).





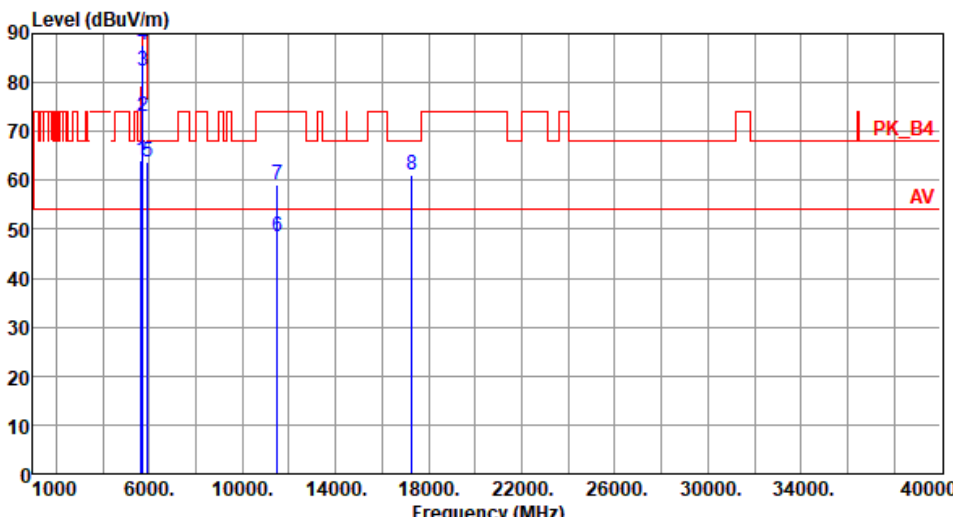
|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5230 |
| Polarization | Vertical | Test Configuration | 1    |

|   | 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 | 5150.00      | 52.81                       | 54.00           | -1.19        | 45.49                 | 7.32         | Average | 202               | 119                  |
| 2 | 5150.00      | 72.68                       | 74.00           | -1.32        | 65.36                 | 7.32         | Peak    | 202               | 119                  |
| 3 | 10460.00     | 59.90                       | 68.20           | -8.30        | 43.53                 | 16.37        | Peak    | 100               | 57                   |
| 4 | 15690.00     | 48.15                       | 54.00           | -5.85        | 31.47                 | 16.68        | Average | 100               | 55                   |
| 5 | 15690.00     | 59.55                       | 74.00           | -14.45       | 42.87                 | 16.68        | Peak    | 100               | 55                   |

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).

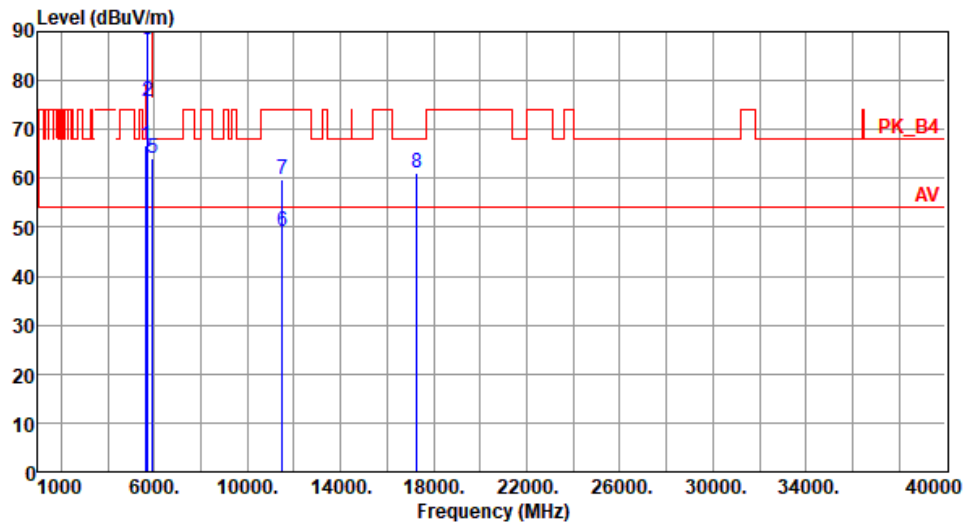
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5755 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5650.00      | 63.97                       | 68.20           | -4.23        | 56.58                 | 7.39         | Peak    | 244               | 27                   |
| 2 | 5700.00      | 73.02                       | 105.20          | -32.18       | 65.52                 | 7.50         | Peak    | 244               | 27                   |
| 3 | 5720.00      | 82.20                       | 110.80          | -28.60       | 74.58                 | 7.62         | Peak    | 244               | 27                   |
| 4 | 5725.00      | 87.65                       | 122.20          | -34.55       | 79.99                 | 7.66         | Peak    | 244               | 27                   |
| 5 | 5925.00      | 63.60                       | 68.20           | -4.60        | 55.53                 | 8.07         | Peak    | 244               | 27                   |
| 6 | 11510.00     | 48.62                       | 54.00           | -5.38        | 31.87                 | 16.75        | Average | 100               | 109                  |
| 7 | 11510.00     | 59.00                       | 74.00           | -15.00       | 42.25                 | 16.75        | Peak    | 100               | 109                  |
| 8 | 17265.00     | 61.19                       | 68.20           | -7.01        | 42.38                 | 18.81        | Peak    | 100               | 111                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5755 |
| Polarization | Vertical | Test Configuration | 1    |



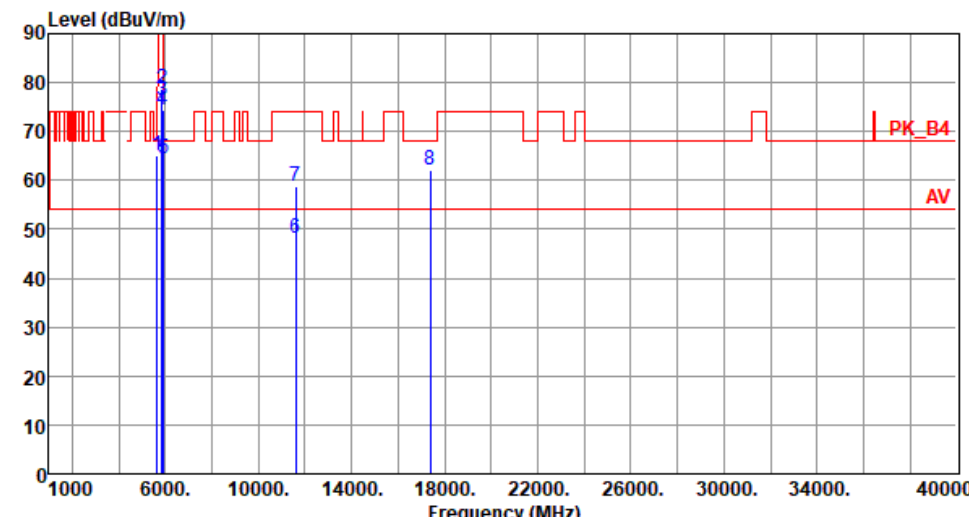
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5650.00      | 66.80                       | 68.20           | -1.40        | 59.41                 | 7.39         | Peak    | 175               | 269                  |
| 2 | 5700.00      | 75.76                       | 105.20          | -29.44       | 68.26                 | 7.50         | Peak    | 175               | 105                  |
| 3 | 5720.00      | 88.47                       | 110.80          | -22.33       | 80.85                 | 7.62         | Peak    | 175               | 105                  |
| 4 | 5725.00      | 89.88                       | 122.20          | -32.32       | 82.22                 | 7.66         | Peak    | 175               | 105                  |
| 5 | 5925.00      | 64.10                       | 68.20           | -4.10        | 56.03                 | 8.07         | Peak    | 175               | 105                  |
| 6 | 11510.00     | 49.27                       | 54.00           | -4.73        | 32.52                 | 16.75        | Average | 100               | 250                  |
| 7 | 11510.00     | 59.63                       | 74.00           | -14.37       | 42.88                 | 16.75        | Peak    | 100               | 250                  |
| 8 | 17265.00     | 61.24                       | 68.20           | -6.96        | 42.43                 | 18.81        | Peak    | 100               | 253                  |

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).

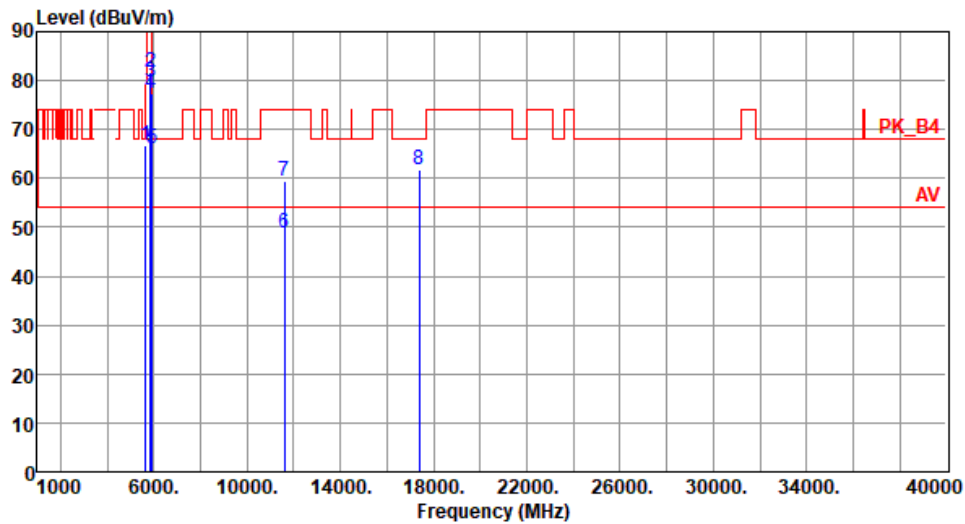
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz)   | 5795 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5650.00      | 64.94                       | 68.20           | -3.26        | 57.55                 | 7.39         | Peak    | 206               | 23                   |
| 2 | 5850.00      | 78.58                       | 122.20          | -43.62       | 70.56                 | 8.02         | Peak    | 206               | 23                   |
| 3 | 5855.00      | 76.24                       | 110.80          | -34.56       | 68.22                 | 8.02         | Peak    | 206               | 23                   |
| 4 | 5875.00      | 74.54                       | 105.20          | -30.66       | 66.51                 | 8.03         | Peak    | 206               | 23                   |
| 5 | 5925.00      | 64.33                       | 68.20           | -3.87        | 56.26                 | 8.07         | Peak    | 206               | 23                   |
| 6 | 11590.00     | 48.08                       | 54.00           | -5.92        | 31.51                 | 16.57        | Average | 100               | 104                  |
| 7 | 11590.00     | 58.89                       | 74.00           | -15.11       | 42.32                 | 16.57        | Peak    | 100               | 104                  |
| 8 | 17385.00     | 62.19                       | 68.20           | -6.01        | 42.84                 | 19.35        | Peak    | 100               | 105                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz)   | 5795 |
| Polarization | Vertical | Test Configuration | 1    |



|   | 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 | 5650.00      | 66.73                       | 68.20           | -1.47        | 59.34                 | 7.39         | Peak    | 174               | 312                  |
| 2 | 5850.00      | 81.58                       | 122.20          | -40.62       | 73.56                 | 8.02         | Peak    | 174               | 102                  |
| 3 | 5855.00      | 79.58                       | 110.80          | -31.22       | 71.56                 | 8.02         | Peak    | 174               | 102                  |
| 4 | 5875.00      | 77.28                       | 105.20          | -27.92       | 69.25                 | 8.03         | Peak    | 174               | 102                  |
| 5 | 5925.00      | 66.10                       | 68.20           | -2.10        | 58.03                 | 8.07         | Peak    | 174               | 129                  |
| 6 | 11590.00     | 48.66                       | 54.00           | -5.34        | 32.09                 | 16.57        | Average | 170               | 255                  |
| 7 | 11590.00     | 59.55                       | 74.00           | -14.45       | 42.98                 | 16.57        | Peak    | 170               | 255                  |
| 8 | 17385.00     | 61.63                       | 68.20           | -6.57        | 42.28                 | 19.35        | Peak    | 100               | 245                  |

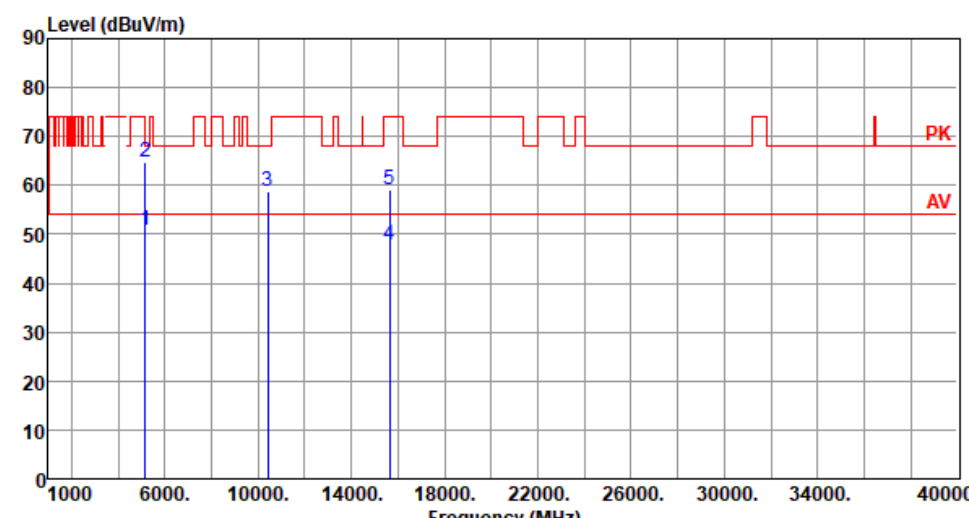
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

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

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

### 3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

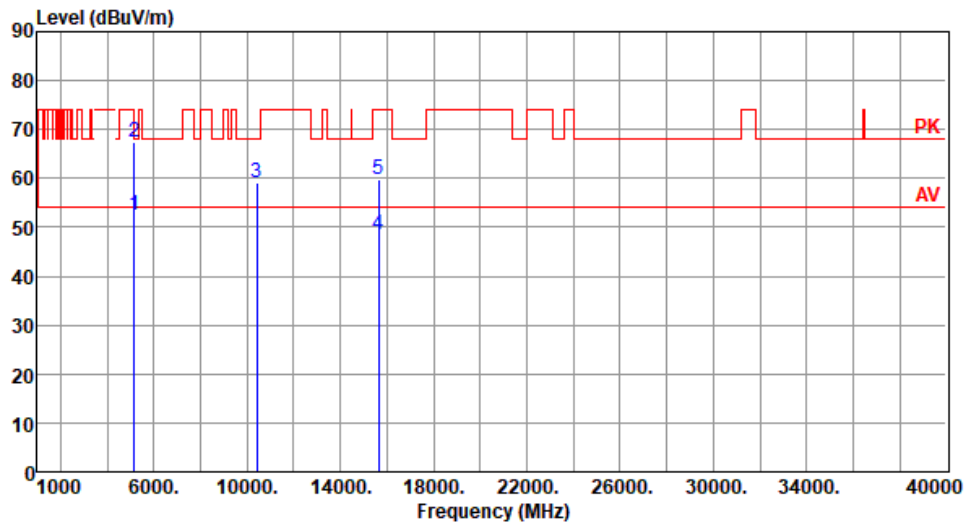
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT80      | Test Freq. (MHz)   | 5210 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | 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 | 5150.00      | 50.97                       | 54.00           | -3.03        | 43.65                 | 7.32         | Average | 208               | 24                   |
| 2 | 5150.00      | 64.84                       | 74.00           | -9.16        | 57.52                 | 7.32         | Peak    | 208               | 24                   |
| 3 | 10420.00     | 58.68                       | 68.20           | -9.52        | 42.37                 | 16.31        | Peak    | 100               | 107                  |
| 4 | 15630.00     | 47.96                       | 54.00           | -6.04        | 30.88                 | 17.08        | Average | 100               | 105                  |
| 5 | 15630.00     | 58.95                       | 74.00           | -15.05       | 41.87                 | 17.08        | Peak    | 100               | 105                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT80    | Test Freq. (MHz)   | 5210 |
| Polarization | Vertical | Test Configuration | 1    |



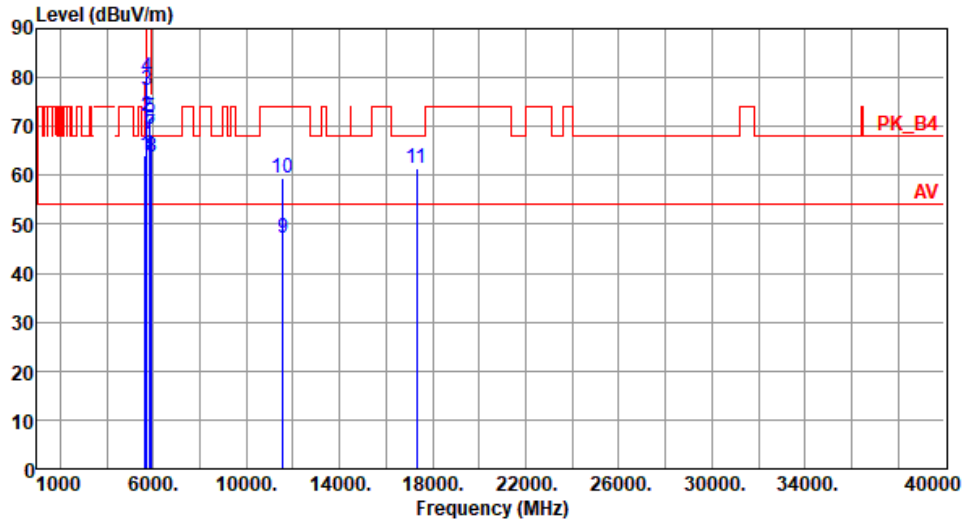
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00      | 52.59                       | 54.00           | -1.41        | 45.27                 | 7.32         | Average | 191               | 103                  |
| 2 | 5150.00      | 67.39                       | 74.00           | -6.61        | 60.07                 | 7.32         | Peak    | 191               | 103                  |
| 3 | 10420.00     | 59.19                       | 68.20           | -9.01        | 42.88                 | 16.31        | Peak    | 100               | 54                   |
| 4 | 15630.00     | 48.32                       | 54.00           | -5.68        | 31.24                 | 17.08        | Average | 100               | 58                   |
| 5 | 15630.00     | 59.84                       | 74.00           | -14.16       | 42.76                 | 17.08        | Peak    | 100               | 58                   |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | VHT80      | Test Freq. (MHz)   | 5775 |
| Polarization | Horizontal | Test Configuration | 1    |



|    | 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  | 5650.00      | 64.05                       | 68.20           | -4.15        | 56.66                 | 7.39         | Peak    | 208               | 28                   |
| 2  | 5700.00      | 72.05                       | 105.20          | -33.15       | 64.55                 | 7.50         | Peak    | 208               | 28                   |
| 3  | 5720.00      | 77.47                       | 110.80          | -33.33       | 69.85                 | 7.62         | Peak    | 208               | 28                   |
| 4  | 5725.00      | 80.20                       | 122.20          | -42.00       | 72.54                 | 7.66         | Peak    | 208               | 28                   |
| 5  | 5850.00      | 71.62                       | 122.20          | -50.58       | 63.60                 | 8.02         | Peak    | 208               | 28                   |
| 6  | 5855.00      | 69.54                       | 110.80          | -41.26       | 61.52                 | 8.02         | Peak    | 208               | 28                   |
| 7  | 5875.00      | 68.38                       | 105.20          | -36.82       | 60.35                 | 8.03         | Peak    | 208               | 28                   |
| 8  | 5925.00      | 63.62                       | 68.20           | -4.58        | 55.55                 | 8.07         | Peak    | 208               | 28                   |
| 9  | 11550.00     | 47.24                       | 54.00           | -6.76        | 30.58                 | 16.66        | Average | 100               | 107                  |
| 10 | 11550.00     | 59.52                       | 74.00           | -14.48       | 42.86                 | 16.66        | Peak    | 100               | 107                  |
| 11 | 17325.00     | 61.45                       | 68.20           | -6.75        | 42.36                 | 19.09        | Peak    | 100               | 105                  |

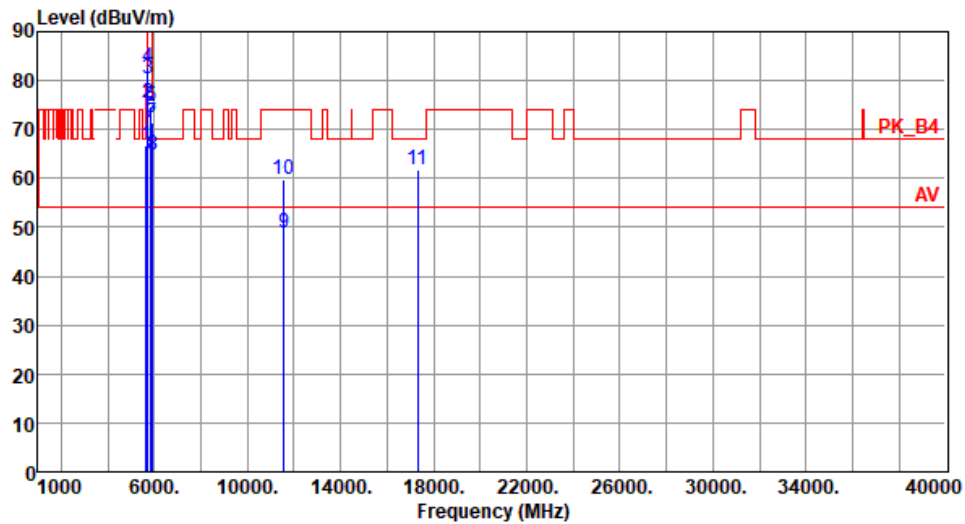
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

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

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | VHT80    | Test Freq. (MHz)   | 5775 |
| Polarization | Vertical | Test Configuration | 1    |



|    | 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  | 5650.00      | 66.88                       | 68.20           | -1.32        | 59.49                 | 7.39         | Peak    | 197               | 109                  |
| 2  | 5700.00      | 75.37                       | 105.20          | -29.83       | 67.87                 | 7.50         | Peak    | 197               | 109                  |
| 3  | 5720.00      | 80.28                       | 110.80          | -30.52       | 72.66                 | 7.62         | Peak    | 197               | 109                  |
| 4  | 5725.00      | 82.84                       | 122.20          | -39.36       | 75.18                 | 7.66         | Peak    | 197               | 109                  |
| 5  | 5850.00      | 74.76                       | 122.20          | -47.44       | 66.74                 | 8.02         | Peak    | 197               | 109                  |
| 6  | 5855.00      | 72.41                       | 110.80          | -38.39       | 64.39                 | 8.02         | Peak    | 197               | 109                  |
| 7  | 5875.00      | 71.34                       | 105.20          | -33.86       | 63.31                 | 8.03         | Peak    | 197               | 109                  |
| 8  | 5925.00      | 64.65                       | 68.20           | -3.55        | 56.58                 | 8.07         | Peak    | 197               | 109                  |
| 9  | 11550.00     | 48.66                       | 54.00           | -5.34        | 32.00                 | 16.66        | Average | 177               | 252                  |
| 10 | 11550.00     | 59.88                       | 74.00           | -14.12       | 43.22                 | 16.66        | Peak    | 177               | 252                  |
| 11 | 17325.00     | 61.67                       | 68.20           | -6.53        | 42.58                 | 19.09        | Peak    | 100               | 256                  |

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).

## 3.6 Frequency Stability

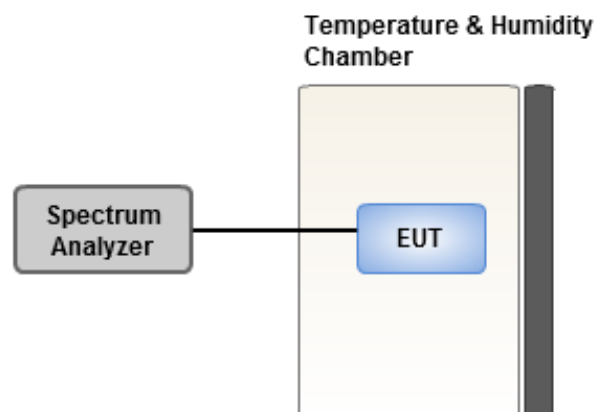
### 3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

### 3.6.3 Test Setup



### 3.6.4 Test Result of Frequency Stability

| Frequency:<br>5200 MHz | Frequency Drift (ppm) |                 |           |                 |
|------------------------|-----------------------|-----------------|-----------|-----------------|
| Temperature (°C)       | 0 minute              | 2 minutes       | 5 minutes | 10 minutes      |
| T20°C Vmax             | -2.10                 | -2.30           | -1.67     | -1.64           |
| T20°C Vmin             | -1.77                 | -1.42           | -1.10     | -1.99           |
| T50°C Vnom             | -17.19                | -17.32          | -17.30    | -16.84          |
| T40°C Vnom             | -12.58                | -12.28          | -12.08    | -12.79          |
| T30°C Vnom             | -7.40                 | -7.29           | -7.37     | -7.44           |
| T20°C Vnom             | -2.27                 | -2.10           | -2.22     | -2.28           |
| T10°C Vnom             | 1.25                  | 1.84            | 2.16      | 1.11            |
| T0°C Vnom              | 2.42                  | 3.12            | 3.00      | 2.89            |
| T-10°C Vnom            | 3.60                  | 3.51            | 4.11      | 3.67            |
| T-20°C Vnom            | 4.62                  | 4.92            | 4.34      | 4.83            |
| T-30°C Vnom            | 5.98                  | 6.44            | 5.82      | 5.95            |
| Vnom [Vac]: 120        |                       | Vmax [Vac]: 138 |           | Vmin [Vac]: 102 |
| Tnom [°C]: 20          |                       | Tmax [°C]: 50   |           | Tmin [°C]: -30  |

| Frequency:<br>5785 MHz | Frequency Drift (ppm) |                 |           |                 |
|------------------------|-----------------------|-----------------|-----------|-----------------|
| Temperature (°C)       | 0 minute              | 2 minutes       | 5 minutes | 10 minutes      |
| T20°C Vmax             | -1.51                 | -1.68           | -1.54     | -1.85           |
| T20°C Vmin             | -1.33                 | -1.57           | -1.40     | -1.94           |
| T50°C Vnom             | -15.13                | -14.67          | -14.91    | -14.54          |
| T40°C Vnom             | -11.06                | -10.94          | -11.18    | -11.17          |
| T30°C Vnom             | -6.40                 | -6.04           | -6.18     | -5.87           |
| T20°C Vnom             | -1.14                 | -1.40           | -1.23     | -1.09           |
| T10°C Vnom             | 1.51                  | 0.61            | 0.70      | 1.83            |
| T0°C Vnom              | 2.38                  | 2.68            | 2.22      | 2.16            |
| T-10°C Vnom            | 3.40                  | 3.44            | 3.59      | 3.96            |
| T-20°C Vnom            | 4.85                  | 4.37            | 4.97      | 5.30            |
| T-30°C Vnom            | 5.41                  | 5.41            | 4.96      | 5.20            |
| Vnom [Vac]: 120        |                       | Vmax [Vac]: 138 |           | Vmin [Vac]: 102 |
| Tnom [°C]: 20          |                       | Tmax [°C]: 50   |           | Tmin [°C]: -30  |

## 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>.

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