

FCC/ISED

RF

TEST REPORT

ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.

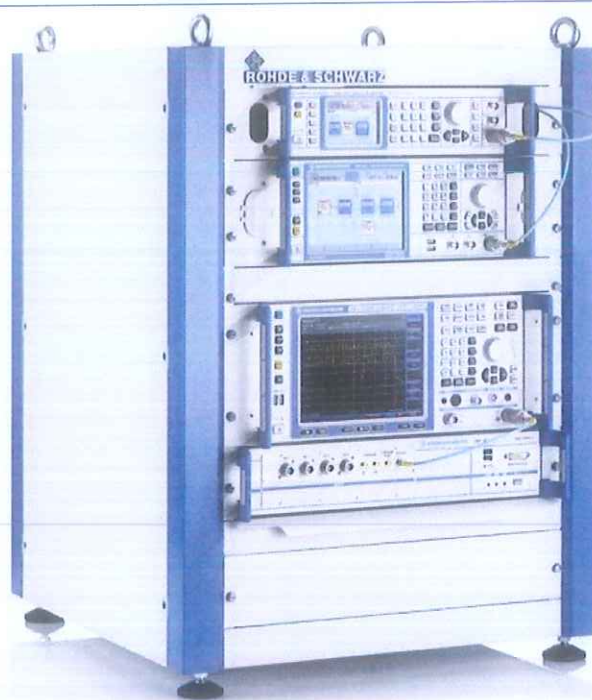


FOR

Fully Rugged Windows Tablet

ISSUED TO  
Shenzhen UniStrong Science & Technology Co., Ltd

B, 4-4Factory, Zhengcheng Road, Fuyong Baoan District, Shenzhen,  
China



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Date May 09, 2018

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Liao Jianming  
(Technical Director)

Date May 09, 2018

Report No.: BL-EC1830163-604

EUT Name: Fully Rugged Windows Tablet

Model Name: UT50

Brand Name: UniStrong

Test Standard: 47 CFR Part 15 Subpart E  
RSS-Gen (Issue 4, November 2014)

RSS-247 (Issue 2, February 2017)

FCC ID: 2AOPD-UT50

ISED Number: 11546A-UT50

Test Conclusion: Pass

Test Date: Apr. 05, 2018 ~ Apr. 12, 2018

Date of Issue: May 09, 2018

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### Revision History

| Version        | Issue Date           | Revisions Content                                               |
|----------------|----------------------|-----------------------------------------------------------------|
| <u>Rev. 01</u> | <u>Apr. 20, 2018</u> | <u>Initial Issue</u>                                            |
| <u>Rev. 02</u> | <u>May 09, 2018</u>  | <u>Update the data of the conduction part other than power.</u> |

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# 1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

## 1.1 Identification of the Testing Laboratory

|              |                                                                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| Company Name | Shenzhen BALUN Technology Co., Ltd.                                                                                             |
| Address      | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100                                                                                                               |

## 1.2 Identification of the Responsible Testing Location

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Location             | Shenzhen BALUN Technology Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Address                   | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Accreditation Certificate | <p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.</p> <p>The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p> |
| Description               | All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 1.3 Laboratory Condition

|                           |                    |
|---------------------------|--------------------|
| Ambient Temperature       | 20°C to 25°C       |
| Ambient Relative Humidity | 45% to 55%         |
| Ambient Pressure          | 100 kPa to 102 kPa |

## 1.4 Announce

- (1) The test report reference to the report template version v4.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

## 2 PRODUCT INFORMATION

### 2.1 Applicant

|           |                                                                        |
|-----------|------------------------------------------------------------------------|
| Applicant | Shenzhen UniStrong Science & Technology Co., Ltd.                      |
| Address   | B, 4-4Factory, Zhengcheng Road, Fuyong Baoan District, Shenzhen, China |

### 2.2 Manufacturer

|              |                                                                        |
|--------------|------------------------------------------------------------------------|
| Manufacturer | Shenzhen UniStrong Science & Technology Co., Ltd.                      |
| Address      | B, 4-4Factory, Zhengcheng Road, Fuyong Baoan District, Shenzhen, China |

### 2.3 Factory

|         |     |
|---------|-----|
| Factory | N/A |
| Address | N/A |

### 2.4 General Description for Equipment under Test (EUT)

|                                           |                                                                                                                                                                        |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Type                                  | Fully Rugged Windows Tablet                                                                                                                                            |
| Model Name Under Test                     | UT50                                                                                                                                                                   |
| Series Model Name                         | N/A                                                                                                                                                                    |
| Description of Model name differentiation | N/A                                                                                                                                                                    |
| Hardware Version                          | V4.0                                                                                                                                                                   |
| Software Version                          | BIOS: R.AA.00.03.00/EC: R.AA.00.03.00/OS: R.AA.00.30.00                                                                                                                |
| Network and Wireless connectivity         | 3G Network WCDMA/HSDPA/HSUPA Band 1/2/3/4/5/8<br>4G Network FDD LTE Band 1/2/3/4/5/7/8/12/13/20/25/26/30<br>TDD LTE Band 41<br>Bluetooth, WIFI, NFC, GPS, GLONASS, BDS |

### 2.5 Ancillary Equipment

|                       |                      |                             |
|-----------------------|----------------------|-----------------------------|
| Ancillary Equipment 1 | Battery              |                             |
|                       | Brand Name           | SJYEnergy                   |
|                       | Model No.            | BA900                       |
|                       | Serial No.           | N/A                         |
|                       | Capacity             | 2900 mAh                    |
|                       | Rated Voltage        | 11.4 V                      |
|                       | Limit Charge Voltage | 13.05 V                     |
| Ancillary Equipment 2 | Adapter              |                             |
|                       | Brand Name           | AK                          |
|                       | Model No.            | AK65WG-1900342W1            |
|                       | Serial No.           | N/A                         |
|                       | Rated Input          | 100-240 V~, 1.5 A, 50/60 Hz |
|                       | Rated Output         | 19 V= 3.42 A                |
| Ancillary Equipment 3 | Power Line           |                             |
|                       | Length (Approx.)     | 1.5 m                       |

## 2.6 Technical Information

|                                       |                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Frequency Range                       | Band I: 5150 MHz to 5250 MHz,<br>Band IV: 5725 MHz to 5850 MHz                                                           |
| Product Type                          | <input type="checkbox"/> Mobile<br><input checked="" type="checkbox"/> Portable<br><input type="checkbox"/> Fix Location |
| Modulation technology                 | OFDM                                                                                                                     |
| Modulation Type                       | 256QAM, 64QAM, 16QAM, BPSK, QPSK                                                                                         |
| Product Type                          | Indoor for IC standard<br>Mobile and portable for FCC standard                                                           |
| Transfer Rate (Mbps) (Single RF path) | 802.11a: 54/ 48/ 36 / 24 / 18/12 / 9/ 6 Mbps<br>802.11n: up to 150 Mbps<br>802.11ac: up to VHT-MCS9                      |
| Channel Bandwidth                     | 802.11a: 20 MHz<br>802.11n: 20 MHz, 40 MHz<br>802.11ac: 20 MHz, 40 MHz, 80 MHz                                           |
| Maximum Output Power                  | Band I: 12.76 dBm<br>Band IV: 13.29 dBm                                                                                  |
| Antenna Type                          | PIFA Antenna                                                                                                             |
| Antenna Gain                          | Band I: 5150 MHz to 5250 MHz: 1.32 dBi<br>Band IV: 5725 MHz to 5850 MHz: 2.01 dBi                                        |
| About the Product                     | The equipment is Fully Rugged Windows Tablet, intended for used with information technology equipment.                   |

## 2.7 Channel List

| 20 MHz         |                 | 40 MHz         |                 | 80 MHz         |                 |
|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) |
| <b>36</b>      | <b>5180</b>     | <b>38</b>      | <b>5190</b>     | <b>42</b>      | <b>5210</b>     |
| 40             | 5200            | <b>46</b>      | <b>5230</b>     | <b>155</b>     | <b>5775</b>     |
| <b>44</b>      | <b>5220</b>     | <b>151</b>     | <b>5755</b>     |                |                 |
| <b>48</b>      | <b>5240</b>     | <b>159</b>     | <b>5795</b>     |                |                 |
| <b>149</b>     | <b>5745</b>     |                |                 |                |                 |
| 153            | 5765            |                |                 |                |                 |
| <b>157</b>     | <b>5785</b>     |                |                 |                |                 |
| 161            | 5805            |                |                 |                |                 |
| <b>165</b>     | <b>5825</b>     |                |                 |                |                 |

Note: Until further notice, devices subject to this section shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of weather radars operating in this band.

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20), 802.11ac(VHT20)

| Band I (5150 - 5250 MHz) |                |                 | Band IV (5725 - 5850 MHz) |         |                 |
|--------------------------|----------------|-----------------|---------------------------|---------|-----------------|
| Channel Number           | Channel Number | Frequency (MHz) | Channel Number            | Channel | Frequency (MHz) |
| 36                       | Low            | 5180            | 149                       | Low     | 5745            |
| 44                       | Mid            | 5220            | 157                       | Mid     | 5785            |
| 48                       | High           | 5240            | 165                       | High    | 5825            |

For 802.11n (HT40), 802.11ac(VHT40)

| Band I (5150 - 5250 MHz) |                |                 | Band IV (5725 - 5850 MHz) |         |                 |
|--------------------------|----------------|-----------------|---------------------------|---------|-----------------|
| Channel Number           | Channel Number | Frequency (MHz) | Channel Number            | Channel | Frequency (MHz) |
| 38                       | Low            | 5190            | 151                       | Low     | 5755            |
| 46                       | High           | 5230            | 159                       | High    | 5795            |

For 802.11ac(HT80)

| Band I (5150 - 5250 MHz) |                |                 | Band IV (5725 - 5850 MHz) |         |                 |
|--------------------------|----------------|-----------------|---------------------------|---------|-----------------|
| Channel Number           | Channel Number | Frequency (MHz) | Channel Number            | Channel | Frequency (MHz) |
| 42                       | Low            | 5210            | 155                       | Low     | 5775            |

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

| Test Items                                                  | Mode         | Data Rate | Modulation Type | Band I   | Band IV     |
|-------------------------------------------------------------|--------------|-----------|-----------------|----------|-------------|
|                                                             |              |           |                 | Channel  | Channel     |
| RF Output Power                                             | 11a          | 6         | BPSK            | 48/44/36 | 165/157/149 |
|                                                             | 11n(20 MHz)  | 6.5       |                 | 48/44/36 | 165/157/149 |
|                                                             | 11n(40 MHz)  | 13.5      |                 | 46/38    | 159/151     |
|                                                             | 11ac(80 MHz) | MCS0      |                 | 42       | 155         |
| Emission Bandwidth & 99% Occupied Bandwidth                 | 11a          | 6         | BPSK            | 48/44/36 | 165/157/149 |
|                                                             | 11n(20 MHz)  | 6.5       |                 | 48/44/36 | 165/157/149 |
|                                                             | 11n(40 MHz)  | 13.5      |                 | 46/38    | 159/151     |
|                                                             | 11ac(80 MHz) | VHT-MCS0  |                 | 42       | 155         |
| 6 dB bandwidth                                              | 11a          | 6         | BPSK            | N/A      | 165/157/149 |
|                                                             | 11n(20 MHz)  | 6.5       |                 | N/A      | 165/157/149 |
|                                                             | 11n(40 MHz)  | 13.5      |                 | N/A      | 159/151     |
|                                                             | 11ac(80 MHz) | MCS0      |                 | N/A      | 155         |
| Power Spectral Density                                      | 11a          | 6         | BPSK            | 48/44/36 | 165/157/149 |
|                                                             | 11n(20 MHz)  | 6.5       |                 | 48/44/36 | 165/157/149 |
|                                                             | 11n(40 MHz)  | 13.5      |                 | 46/38    | 159/151     |
|                                                             | 11ac(80 MHz) | MCS0      |                 | 42       | 155         |
| Conducted Spurious Emission and Band Edge (Authorized-band) | 11a          | 6         | BPSK            | 48/44/36 | 165/157/149 |
|                                                             | 11n(20 MHz)  | 6.5       |                 | 48/44/36 | 165/157/149 |
|                                                             | 11n(40 MHz)  | 13.5      |                 | 46/38    | 159/151     |
|                                                             | 11ac(80 MHz) | MCS0      |                 | 42       | 155         |
| Radiated Spurious Emissions                                 | 11a          | 6         | BPSK            | 48/44/36 | 165/157/149 |
|                                                             | 11n(20 MHz)  | 6.5       |                 | 48/44/36 | 165/157/149 |
|                                                             | 11n(40 MHz)  | 13.5      |                 | 46/38    | 159/151     |
|                                                             | 11ac(80 MHz) | MCS0      |                 | 42       | 155         |
| Band Edge (Restricted-band)                                 | 11a          | 6         | BPSK            | 48/36    | 165/149     |
|                                                             | 11n(20 MHz)  | 6.5       |                 | 48/36    | 165/149     |
|                                                             | 11n(40 MHz)  | 13.5      |                 | 46/38    | 159/151     |
|                                                             | 11ac(80 MHz) | MCS0      |                 | 42       | 155         |
| Frequency Stability                                         | Unmodulated  | N/A       | N/A             | N/A      | N/A         |

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

| No. | Identity                                         | Document Title                                                                                                             |
|-----|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 15<br>Subpart E<br>(10-1-16 Edition) | Unlicensed National Information Infrastructure Devices                                                                     |
| 2   | KDB Publication<br>789033 D02v01r04              | Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E     |
| 3   | KDB Publication<br>662911 D01v02r01              | Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)                  |
| 4   | RSS-Gen<br>(Issue 4, Nov.<br>2014)               | General Requirements for Compliance of Radio Apparatus                                                                     |
| 5   | RSS-247<br>(Issue 2, February<br>2017)           | Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exemp Local Area Network (LE-LAN) Devices |
| 6   | ANSI C63.10-2013                                 | American National Standard for Testing Unlicensed Wireless Devices                                                         |

#### 3.2 Verdict

| No. | Description                                                       | FCC Part No.        | RSS Part No.   | Test Result | Verdict               |
|-----|-------------------------------------------------------------------|---------------------|----------------|-------------|-----------------------|
| 1   | Antenna Requirement                                               | 15.203              | RSS-247, 6.2   | --          | Pass <sup>Note1</sup> |
| 2   | RF Output Power                                                   | 15.407(a)           | RSS-247, 6.2   | ANNEX A.1   | Pass                  |
| 3   | Emission Bandwidth<br>& 99% Occupied Bandwidth                    | 15.407(a)           | RSS-247, 6.2   | ANNEX A.2   | Pass                  |
| 4   | 6 dB bandwidth                                                    | 15.407(e)           | RSS-247, 6.2   | ANNEX A.3   | Pass                  |
| 5   | Power Spectral Density                                            | 15.407(a)           | RSS-247, 6.2   | ANNEX A.4   | Pass                  |
| 6   | Conducted Emission                                                | 15.207              | RSS-GEN, 8.8   | ANNEX A.5   | Pass                  |
| 7   | Conducted Spurious<br>Emission and Band Edge<br>(Authorized-band) | 15.407(b)<br>15.209 | RSS-247, 6.2   | ANNEX A.6   | Pass                  |
| 8   | Radiated Spurious<br>Emissions and Band Edge<br>(Restricted-band) | 15.407(b)           | RSS-247, 6.2   | ANNEX A.7   | Pass                  |
| 9   | Frequency Stability                                               | 15.407(g)           | --             | ANNEX A.8   | Pass                  |
| 10  | Receiver Spurious<br>Emissions                                    | --                  | RSS-Gen, 7.1.2 | --          | N/A <sup>Note2</sup>  |

Note <sup>1</sup>: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

|                            |                         |                |
|----------------------------|-------------------------|----------------|
| Relative Humidity          | 45% to 55%              |                |
| Atmospheric Pressure       | 100 kPa to 102 kPa      |                |
| Temperature                | NT (Normal Temperature) | +22°C to +25°C |
|                            | LT (Low Temperature)    | -20°C          |
|                            | HT (High Temperature)   | +55°C          |
| Working Voltage of the EUT | NV (Normal Voltage)     | 11.4 V         |
|                            | LV (Low Voltage)        | 11.1 V         |
|                            | HV (High Voltage)       | 13.05 V        |

### 4.2 Test Equipment List

| Description                           | Manufacturer               | Model                 | Serial No. | Cal. Date  | Cal. Due   |
|---------------------------------------|----------------------------|-----------------------|------------|------------|------------|
| Spectrum Analyzer                     | ROHDE&SCHWARZ              | FSV-30                | 103118     | 2017.06.12 | 2018.06.11 |
| Switch Unit with OSP-B157             | ROHDE&SCHWARZ              | OSP120                | 101270     | 2017.06.12 | 2018.06.11 |
| EMI Receiver                          | KEYSIGHT                   | N9038A                | MY53220118 | 2017.09.07 | 2018.09.06 |
| EMI Receiver                          | ROHDE&SCHWARZ              | ESRP                  | 101036     | 2017.06.22 | 2018.06.21 |
| LISN                                  | SCHWARZBECK                | NSLK 8127             | 8127-687   | 2017.06.22 | 2018.06.21 |
| Bluetooth Tester                      | ROHDE&SCHWARZ              | CBT                   | 101005     | 2017.06.12 | 2018.06.11 |
| Power Splitter                        | KMW                        | DCPD-LDC              | 1305003215 | --         | --         |
| Power Sensor                          | ROHDE&SCHWARZ              | NRP-Z21               | 103971     | 2017.06.12 | 2018.06.11 |
| Attenuator (20 dB)                    | KMW                        | ZA-S1-201             | 110617091  | --         | --         |
| Attenuator (6 dB)                     | KMW                        | ZA-S1-61              | 1305003189 | --         | --         |
| DC Power Supply                       | ROHDE&SCHWARZ              | HMP2020               | 018141664  | 2017.06.22 | 2018.06.21 |
| Temperature Chamber                   | ANGELANTIONI<br>SCIENCE    | NTH64-40A             | 1310       | 2017.06.22 | 2018.06.21 |
| Test Antenna-<br>Loop(9 kHz-30 MHz)   | SCHWARZBECK                | FMZB 1519             | 1519-037   | 2017.06.22 | 2018.06.21 |
| Test Antenna-<br>Bi-Log(30 MHz-3 GHz) | SCHWARZBECK                | VULB 9163             | 9163-624   | 2017.11.07 | 2019.11.08 |
| Test Antenna-<br>Horn(1-18 GHz)       | SCHWARZBECK                | BBHA<br>9120D         | 9120D-1148 | 2017.07.22 | 2019.07.21 |
| Test Antenna-<br>Horn(15-26.5 GHz)    | SCHWARZBECK                | BBHA 9170             | 9170-305   | 2016.07.12 | 2018.07.11 |
| Test Antenna-<br>Horn (18-40 GHz)     | A-INFO                     | LB-<br>180400KF       | J211060273 | 2017.01.07 | 2019.01.06 |
| Anechoic Chamber                      | RAINFORD                   | 9m*6m*6m              | N/A        | 2017.02.21 | 2019.02.20 |
| Anechoic Chamber                      | EMC Electronic Co.,<br>Ltd | 20.10*11.60<br>*7.35m | N/A        | 2016.08.09 | 2018.08.08 |
| Shielded Enclosure                    | ChangNing                  | CN-130701             | 130703     | --         | --         |
| Signal Generator                      | ROHDE&SCHWARZ              | SMB100A               | 177746     | 2017.06.12 | 2018.06.11 |
| Power Amplifier                       | OPHIR RF                   | 5225F                 | 1037       | 2018.02.17 | 2019.02.16 |

| Description         | Manufacturer | Model    | Serial No. | Cal. Date  | Cal. Due   |
|---------------------|--------------|----------|------------|------------|------------|
| Power Amplifier     | OPHIR RF     | 5273F    | 1016       | 2018.02.17 | 2019.02.16 |
| Directional Coupler | Werlantone   | C5982-10 | 109275     | N/A        | N/A        |
| Directional Coupler | Werlantone   | CHP-273E | S00801z-01 | N/A        | N/A        |
| Feld Strength Meter | Narda        | EP601    | 511WX51129 | 2017.05.22 | 2018.05.21 |
| Mouth Simulator     | B&K          | 4227     | 2423931    | 2017.11.16 | 2018.11.15 |
| Sound Calibrator    | B&K          | 4231     | 2430337    | 2017.11.16 | 2018.11.15 |
| Sound Level Meter   | B&K          | NL-20    | 00844023   | 2017.11.16 | 2018.11.15 |
| Ear Simulator       | B&K          | 4185     | 2409449    | 2017.11.16 | 2018.11.15 |
| Ear Simulator       | B&K          | 4195     | 2418189    | 2017.11.16 | 2018.11.15 |
| Audio analyzer      | B&K          | UPL 16   | 100129     | 2017.11.16 | 2018.11.15 |

### 4.3 Measurement Uncertainty

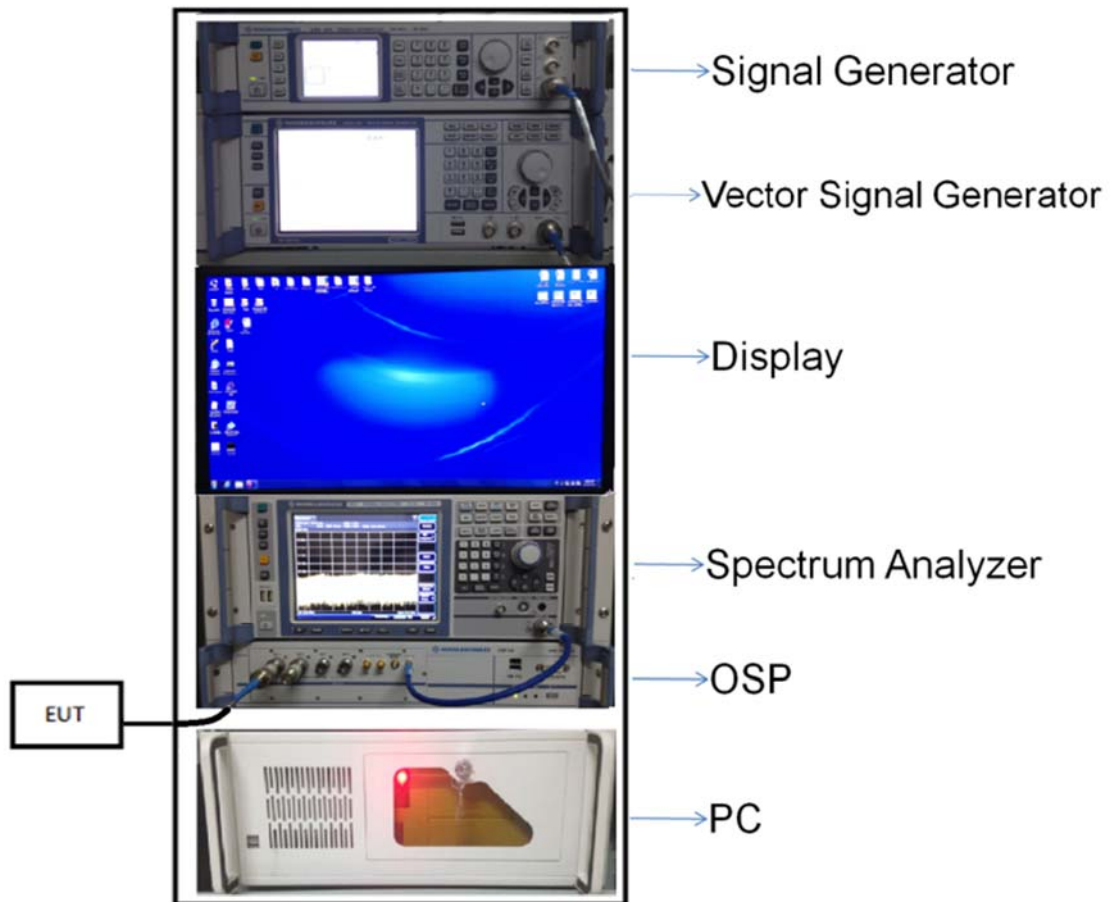
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Measurement                       | Value   |
|-----------------------------------|---------|
| Occupied Channel Bandwidth        | ±4%     |
| RF output power, conducted        | ±1.4 dB |
| Power Spectral Density, conducted | ±2.5 dB |
| Unwanted Emissions, conducted     | ±2.8 dB |
| All emissions, radiated           | ±5.4 dB |
| Temperature                       | ±1°C    |
| Humidity                          | ±4%     |

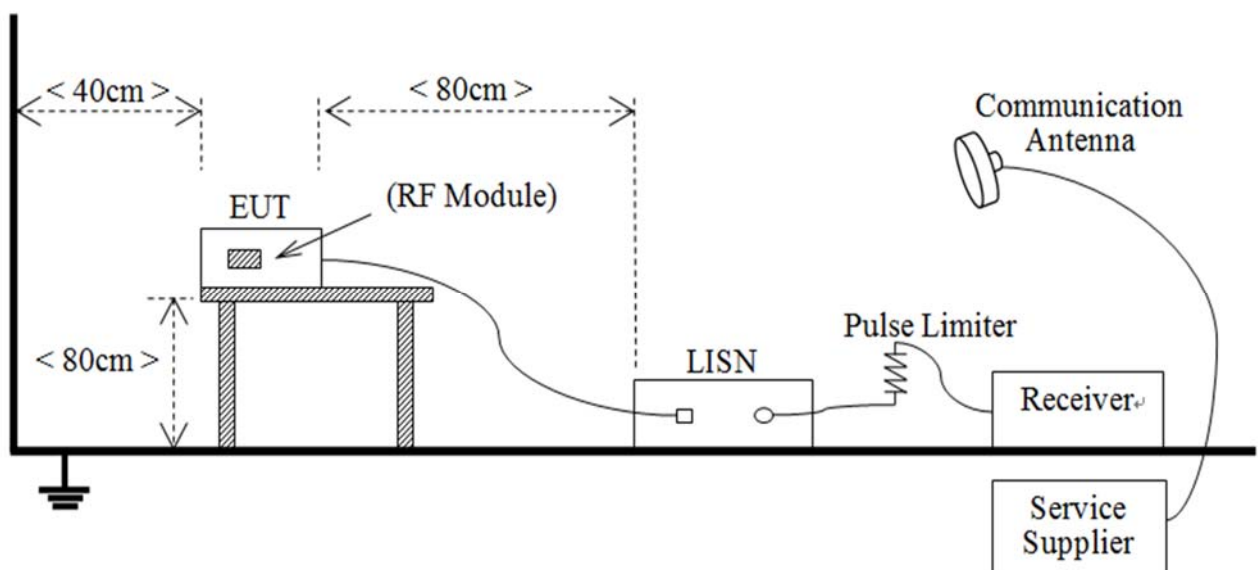
## 4.4 Description of Test Setup

### 4.4.1 For Antenna Port Test



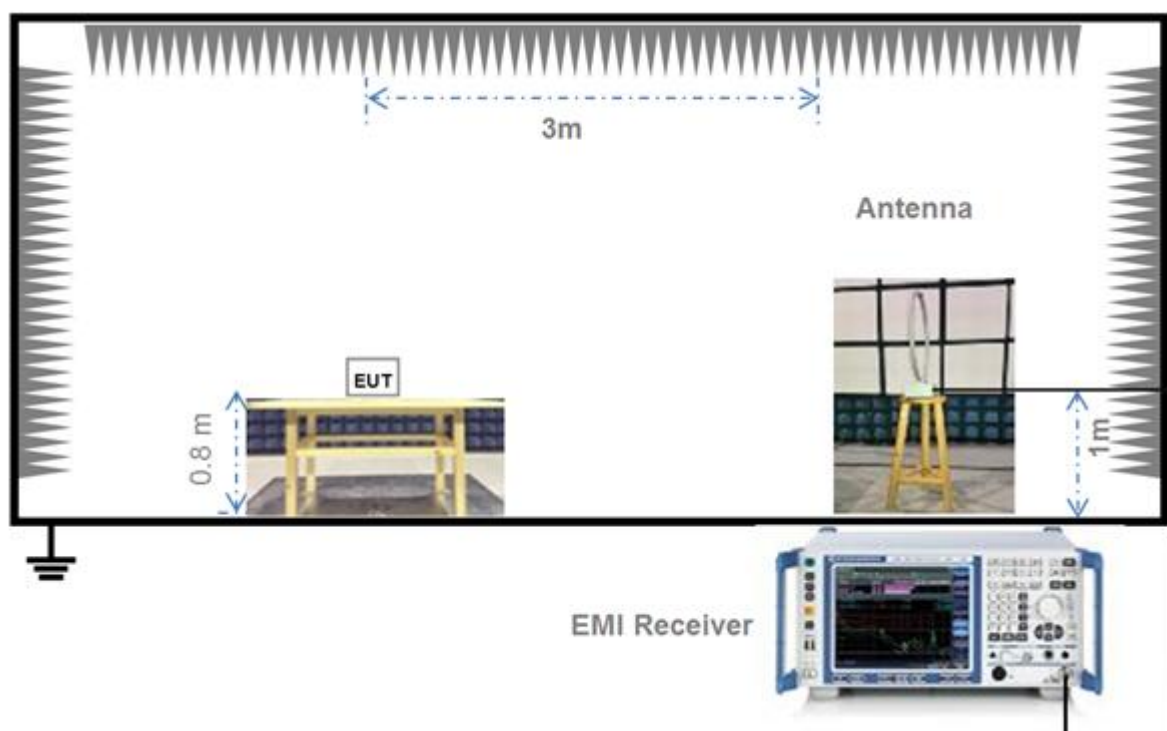
(Diagram 1)

### 4.4.2 For AC Power Supply Port Test



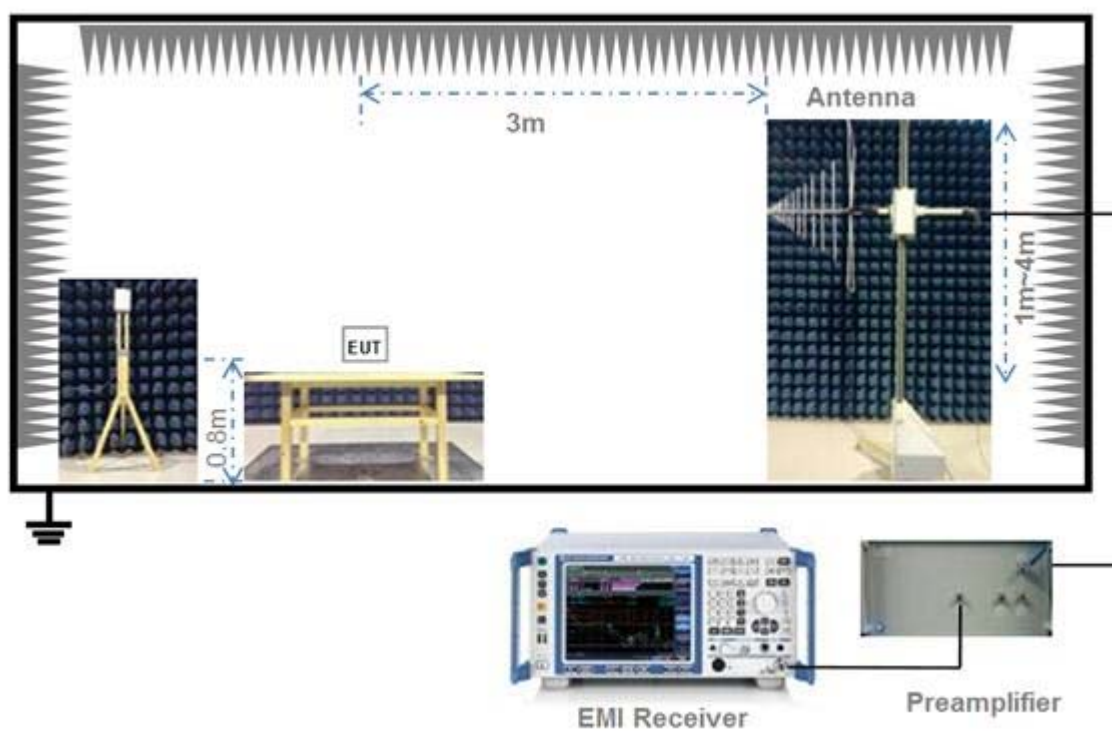
(Diagram 2)

#### 4.4.3 For Radiated Test (Below 30 MHz)



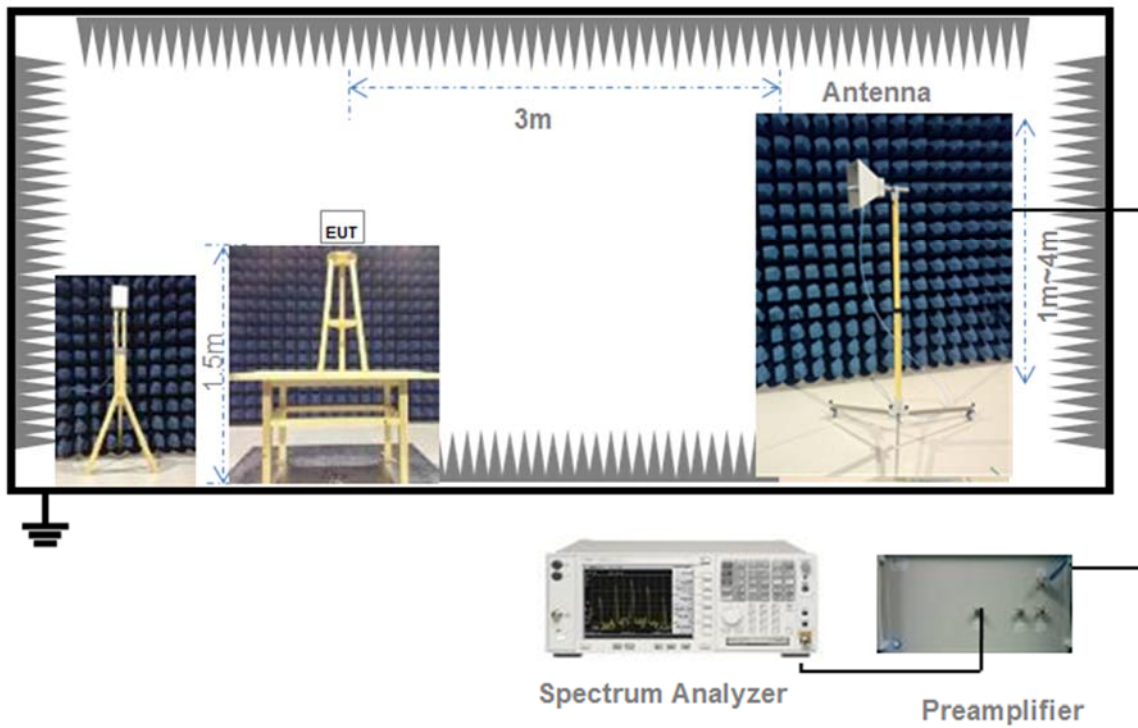
(Diagram 3)

#### 4.4.4 For Radiated Test (30 MHz-1 GHz)



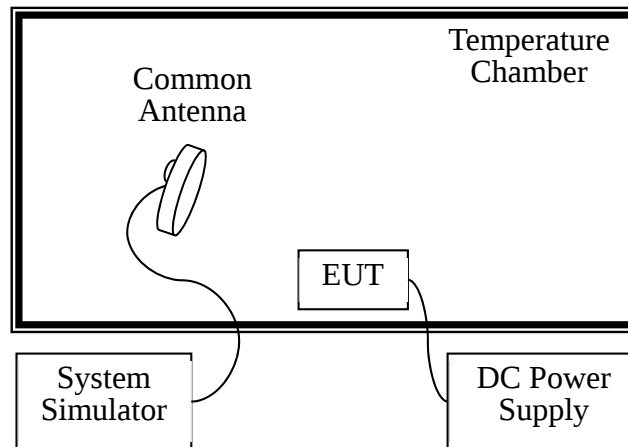
(Diagram 4)

#### 4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

#### 4.4.6 For Frequency Stability Test



(Diagram 6)

## 5 TEST ITEMS

### 5.1 RF Output Power

#### 5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

| Frequency Band (MHz)                                     | Limit                                          |
|----------------------------------------------------------|------------------------------------------------|
| 5150-5250                                                | 250 mW                                         |
| 5250-5350                                                | 250 mW or 11 dBm + 10log B, whichever is less. |
| 5470-5725                                                | 250 mW or 11 dBm + 10log B, whichever is less. |
| 5725-5850                                                | 1 W                                            |
| Note: Where "B" is the 26 dB emissions bandwidth in MHz. |                                                |

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The maximum conducted output power shall not exceed:

| Frequency Band (MHz)                                   | Limit                                          |
|--------------------------------------------------------|------------------------------------------------|
| 5150-5250                                              | N/A                                            |
| 5250-5350                                              | 250 mW or 11 dBm + 10log B, whichever is less. |
| 5470-5725                                              | 250 mW or 11 dBm + 10log B, whichever is less. |
| 5725-5850                                              | 1 W                                            |
| Note: Where "B" is the 99% emissions bandwidth in MHz. |                                                |

The maximum e.i.r.p. shall not exceed:

| Frequency Band (MHz)                                   | Limit                                          |
|--------------------------------------------------------|------------------------------------------------|
| 5150-5250                                              | 200 mW or 10 dBm + 10log B, whichever is less. |
| 5250-5350                                              | 1W or 17 dBm + 10log B, whichever is less.     |
| 5470-5725                                              | 1W or 17 dBm + 10log B, whichever is less.     |
| 5725-5850                                              | N/A                                            |
| Note: Where "B" is the 99% emissions bandwidth in MHz. |                                                |

#### 5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

#### 5.1.3 Test Procedure

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

#### 5.1.4 Test Result

Please refer to ANNEX A.1.

## 5.2 Emission Bandwidth and 6 dB Bandwidth

### 5.2.1 Limit

FCC §15.407(a), RSS-247, 6.2

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

### 5.2.2 Test Setup

The test setup photo please refer to 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.2.3 Test Procedure

#### Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW  $\geq 3 \times$  RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

#### Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW
2. Set RBW = 1% to 5% of the OBW.
3. Set VBW  $\geq 3 \times$  RBW, Detector = Peak.
4. Trace mode = Max hold.
5. Use the 99% power bandwidth function of the instrument.

#### 6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.
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.

### 5.2.4 Test Result

Please refer to ANNEX A.2 and ANNEX A.3.

## 5.3 Power Spectral density (PSD)

### 5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

| Frequency Band (MHz) | Limit         |
|----------------------|---------------|
| 5150-5250            | 11 dBm/MHz    |
| 5250-5350            | 11 dBm/MHz    |
| 5470-5725            | 11 dBm/MHz    |
| 5725-5850            | 30 dBm/500kHz |

RSS-247, 6.2

The maximum power spectral density should not exceed:

| Frequency Band (MHz) | Limit         |
|----------------------|---------------|
| 5150-5250            | N/A           |
| 5250-5350            | 11 dBm/MHz    |
| 5470-5725            | 11 dBm/MHz    |
| 5725-5850            | 30 dBm/500kHz |

The e.i.r.p. spectral density should not exceed:

| Frequency Band (MHz) | Limit      |
|----------------------|------------|
| 5150-5250            | 10 dBm/MHz |
| 5250-5350            | N/A        |
| 5470-5725            | N/A        |
| 5725-5850            | N/A        |

### 5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

1. Set RBW = 510 kHz/1 MHz, VBW  $\geq 3 \times$  RBW, Sweep time = Auto, Detector = RMS.
2. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak marker function to determine the maximum amplitude level.
4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

### 5.3.4 Test Result

Please refer to ANNEX A.4.

## 5.4 Conducted Emission

### 5.4.1 Limit

FCC §15.207, RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

| Frequency range<br>(MHz) | Conducted Limit (dB $\mu$ V) |          |
|--------------------------|------------------------------|----------|
|                          | Quai-peak                    | Average  |
| 0.15 - 0.50              | 66 to 56                     | 56 to 46 |
| 0.50 - 5                 | 56                           | 46       |
| 0.50 - 30                | 60                           | 50       |

### 5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

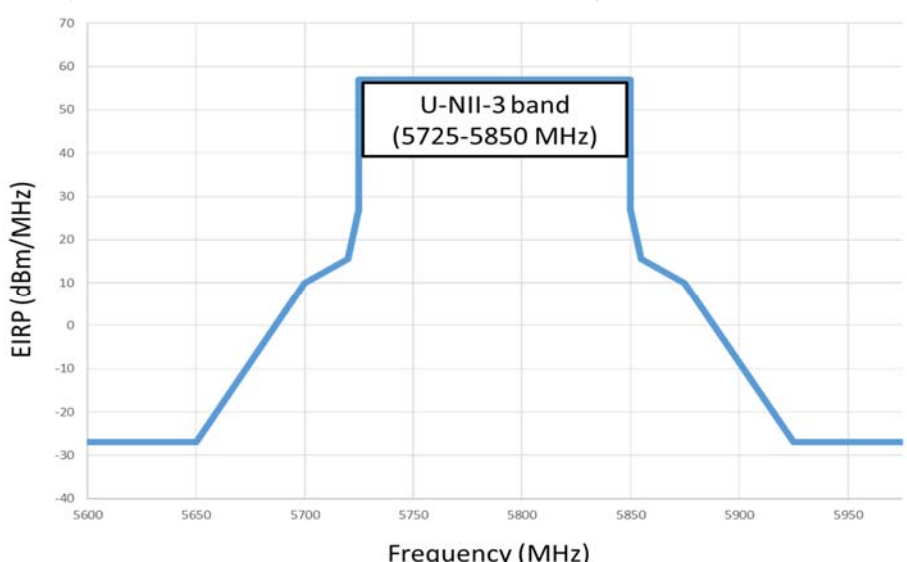
### 5.4.4 Test Result

Please refer to ANNEX A.5.

## 5.5 Conducted Spurious Emission and Band Edge (Authorized-band)

### 5.5.1 Limit

FCC §15.407(b)

| Un-restricted band emissions |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Band (MHz)         | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5150 - 5250                  | Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5250 - 5350                  | Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5470 - 5725                  | Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5725 - 5850                  | <p>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.</p>  <p>U-NII-3 band (5725-5850 MHz)</p> |

RSS-247, 6.2

| Un-restricted band emissions |                                                                                                                                                                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Band (MHz)         | Limit                                                                                                                                                                                                                                             |
| 5150 - 5250                  | Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm, However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. |
| 5250 - 5350                  | Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm. And any emissions within the band 5150-5250 MHz shall meet the power spectral density limits of 10 dBm/MHz, The device shall be labelled "for indoor use only."                              |
| 5470 - 5725                  | Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm                                                                                                                                                                                              |
| 5725 - 5850                  | <p>5715 -5725 MHz: e.i.r.p. -17 dBm</p> <p>5850 -5860 MHz: e.i.r.p. -17 dBm</p> <p>Other un-restricted band: e.i.r.p. -27 dBm</p>                                                                                                                 |

### 5.5.2 Test Setup

See section 4.4.2 (Diagram 2) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.5.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

### 5.5.4 Test Result

Please refer to ANNEX A.6.

## 5.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

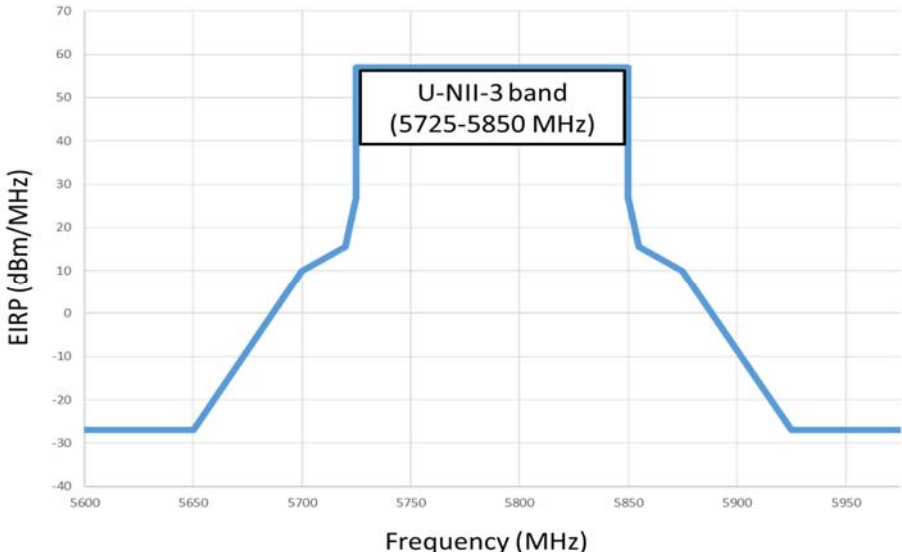
### 5.6.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

| Frequency (MHz) | Field Strength ( $\mu\text{V/m}$ ) | Measurement Distance (m) |
|-----------------|------------------------------------|--------------------------|
| 0.009 - 0.490   | 2400/F(kHz)                        | 300                      |
| 0.490 - 1.705   | 24000/F(kHz)                       | 30                       |
| 1.705 - 30.0    | 30                                 | 30                       |
| 30 - 88         | 100                                | 3                        |
| 88 - 216        | 150                                | 3                        |
| 216 - 960       | 200                                | 3                        |
| Above 960       | 500                                | 3                        |

Note<sup>1</sup>: The Limit for radiated test was performed according to FCC Part 15C

Note<sup>2</sup>: The tighter limit applies at the band edge.

| Un-restricted band emissions |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Out Operating Band (MHz)     | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5150 - 5250                  | e.i.r.p. -27 dBm (68.2 dBuV/m@3m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5250 - 5350                  | e.i.r.p. -27 dBm (68.2 dBuV/m@3m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5470 - 5725                  | e.i.r.p. -27 dBm (68.2 dBuV/m@3m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5725 - 5850                  | <p>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.</p>  |

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength.

### 5.6.2 Test Setup

The section 4.4.3-4.4.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test

setup please refer to ANNEX B.

### 5.6.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

### General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies  $\leq 30$  MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies  $> 1000$  MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log D + 104.8$$

where:

E = electric field strength in dB $\mu$ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

### Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

### Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

| Frequency   | RBW         |
|-------------|-------------|
| 9-150 kHz   | 200-300 Hz  |
| 0.15-30 MHz | 9-10 kHz    |
| 30-1000 MHz | 100-120 kHz |
| > 1000 MHz  | 1 MHz       |

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

#### Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle  $\geq 98$  percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than  $\pm 2$  percent), then the following procedure shall be used:

- The EUT shall be configured to operate at the maximum achievable duty cycle.
- Measure the duty cycle,  $x$ , of the transmitter output signal as described in section 6.0.
- RBW = 1 MHz (unless otherwise specified).
- $VBW \geq 3 \times RBW$ .
- Detector = RMS, if  $\text{span}/(\# \text{ of points in sweep}) \leq (RBW/2)$ . Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- Averaging type = power (i.e., RMS).
  - As an alternative, the detector and averaging type may be set for linear voltage averaging.
  - Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- Sweep time = auto.
- Perform a trace average of at least 100 traces.
- A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
  - If power averaging (RMS) mode was used in step f), then the applicable correction factor is  $10 \log(1/x)$ , where  $x$  is the duty cycle.
  - If linear voltage averaging mode was used in step f), then the applicable correction factor is  $20 \log(1/x)$ , where  $x$  is the duty cycle.
  - If a specific emission is demonstrated to be continuous ( $\geq 98$  percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

#### Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band

emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

#### Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

#### 5.6.4 Test Result

Please refer to ANNEX A.7 and Please refer to ANNEX A.9

## 5.7 Frequency Stability

### 5.7.1 Limit

FCC §15.407(g)

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.

### 5.7.2 Test Setup

The section 4.4.6 (Diagram 6) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.7.3 Test Procedure

The EUT is installed in an environment test chamber with external power source.

Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.

A sufficient stabilization period at each temperatures is used prior to each frequency measurement.

When temperature is stabled, measure the frequency stability.

The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage.

Change setting of chamber and external power source to complete all conditions.

### 5.7.4 Test Result

Please refer to ANNEX A.8.

## ANNEX A TEST RESULT

### A.1 RF Output Power

Note: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### Test Data

##### Conducted Power

| Band I (5150 - 5250 MHz ) |         |                 |                       |                      |                |         |
|---------------------------|---------|-----------------|-----------------------|----------------------|----------------|---------|
| Mode                      | Channel | Frequency (MHz) | Conducted Power (dBm) | Conducted Power (mW) | FCC Limit (mW) | Verdict |
| 11a                       | CH36    | 5180            | 12.46                 | 17.62                | 250            | Pass    |
| 11a                       | CH44    | 5220            | 12.39                 | 17.34                | 250            | Pass    |
| 11a                       | CH48    | 5240            | 12.76                 | 18.88                | 250            | Pass    |
| 11n (HT20)                | CH36    | 5180            | 12.36                 | 17.22                | 250            | Pass    |
| 11n (HT20)                | CH44    | 5220            | 12.26                 | 16.83                | 250            | Pass    |
| 11n (HT20)                | CH48    | 5240            | 12.36                 | 17.22                | 250            | Pass    |
| 11n (HT40)                | CH38    | 5190            | 12.09                 | 16.18                | 250            | Pass    |
| 11n (HT40)                | CH46    | 5230            | 12.45                 | 17.58                | 250            | Pass    |
| 11ac (HT80)               | CH42    | 5210            | 12.35                 | 17.18                | 250            | Pass    |

| Band IV (5725 - 5850 MHz ) |         |                 |                       |                      |               |         |
|----------------------------|---------|-----------------|-----------------------|----------------------|---------------|---------|
| Mode                       | Channel | Frequency (MHz) | Conducted Power (dBm) | Conducted Power (mW) | FCC Limit (W) | Verdict |
| 11a                        | CH149   | 5745            | 12.45                 | 17.58                | 1.00          | Pass    |
| 11a                        | CH157   | 5785            | 12.98                 | 19.86                | 1.00          | Pass    |
| 11a                        | CH165   | 5825            | 12.96                 | 19.77                | 1.00          | Pass    |
| 11n (HT20)                 | CH149   | 5745            | 12.51                 | 17.82                | 1.00          | Pass    |
| 11n (HT20)                 | CH157   | 5785            | 12.78                 | 18.97                | 1.00          | Pass    |
| 11n (HT20)                 | CH165   | 5825            | 13.29                 | 21.33                | 1.00          | Pass    |
| 11n (HT40)                 | CH151   | 5755            | 12.43                 | 17.50                | 1.00          | Pass    |
| 11n (HT40)                 | CH159   | 5795            | 12.33                 | 17.10                | 1.00          | Pass    |
| 11ac (HT80)                | CH155   | 5775            | 12.49                 | 17.74                | 1.00          | Pass    |

## EIRP Power

| Band I (5150 - 5250 MHz )                                                                                                                              |         |                 |                  |                 |               |                       |               |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|------------------|-----------------|---------------|-----------------------|---------------|---------|
| Note 1: The limit is 200 mW or 10 dBm + 10log B, whichever is less. Where "B" is the 99% emissions bandwidth in MHz (Please refer to the section A.2). |         |                 |                  |                 |               |                       |               |         |
| Mode                                                                                                                                                   | Channel | Frequency (MHz) | EIRP Power (dBm) | EIRP Power (mW) | 99% EBW (MHz) | 10 dBm + 10log B (mW) | IC Limit (mW) | Verdict |
| 11a                                                                                                                                                    | CH36    | 5180            | 13.78            | 23.88           | 16.9          | 23.78                 | 164           | Pass    |
| 11a                                                                                                                                                    | CH44    | 5220            | 13.71            | 23.50           | 16.9          | 23.71                 | 165           | Pass    |
| 11a                                                                                                                                                    | CH48    | 5240            | 14.08            | 25.59           | 17.5          | 24.08                 | 166           | Pass    |
| 11n (HT20)                                                                                                                                             | CH36    | 5180            | 13.68            | 23.33           | 18.1          | 23.68                 | 176           | Pass    |
| 11n (HT20)                                                                                                                                             | CH44    | 5220            | 13.58            | 22.80           | 18.6          | 23.58                 | 176           | Pass    |
| 11n (HT20)                                                                                                                                             | CH48    | 5240            | 13.68            | 23.33           | 18.5          | 23.68                 | 176           | Pass    |
| 11n (HT40)                                                                                                                                             | CH38    | 5190            | 13.41            | 21.93           | 36.4          | 23.41                 | 200           | Pass    |
| 11n (HT40)                                                                                                                                             | CH46    | 5230            | 13.77            | 23.82           | 37.1          | 23.77                 | 200           | Pass    |
| 11ac (HT80)                                                                                                                                            | CH42    | 5210            | 13.67            | 23.28           | 75.6          | 23.67                 | 200           | Pass    |

## A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-EC1830163-604 Data Part 1.pdf”.

### Test Data

| Band I (5150 - 5250 MHz ) |         |                 |                       |                     |
|---------------------------|---------|-----------------|-----------------------|---------------------|
| Mode                      | Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99% Bandwidth (MHz) |
| 11a                       | CH36    | 5180            | 19.52                 | 16.80               |
| 11a                       | CH44    | 5220            | 19.52                 | 16.50               |
| 11a                       | CH48    | 5240            | 19.52                 | 16.50               |
| 11n (HT20)                | CH36    | 5180            | 20.00                 | 17.71               |
| 11n (HT20)                | CH44    | 5220            | 20.08                 | 17.66               |
| 11n (HT20)                | CH48    | 5240            | 20.04                 | 17.60               |
| 11n (HT40)                | CH38    | 5190            | 40.80                 | 36.35               |
| 11n (HT40)                | CH46    | 5230            | 40.20                 | 36.24               |
| 11ac (VHT20)              | CH36    | 5180            | 20.00                 | 17.71               |
| 11ac (VHT20)              | CH44    | 5220            | 19.96                 | 17.71               |
| 11ac (VHT20)              | CH48    | 5240            | 20.04                 | 17.66               |
| 11ac (VHT40)              | CH38    | 5190            | 40.60                 | 36.24               |
| 11ac (VHT40)              | CH46    | 5230            | 40.30                 | 36.24               |
| 11ac (VHT80)              | CH42    | 5210            | 81.40                 | 75.72               |

| Band IV (5725 - 5850 MHz ) |         |                 |                       |                     |
|----------------------------|---------|-----------------|-----------------------|---------------------|
| Mode                       | Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99% Bandwidth (MHz) |
| 11a                        | CH149   | 5745            | 0.00                  | 16.50               |
| 11a                        | CH157   | 5785            | 0.00                  | 16.56               |
| 11a                        | CH165   | 5825            | 0.00                  | 16.56               |
| 11n (HT20)                 | CH149   | 5745            | 0.00                  | 17.66               |
| 11n (HT20)                 | CH157   | 5785            | 0.00                  | 17.66               |
| 11n (HT20)                 | CH165   | 5825            | 0.00                  | 17.77               |
| 11n (HT40)                 | CH151   | 5755            | 0.00                  | 36.35               |
| 11n (HT40)                 | CH159   | 5795            | 0.00                  | 36.35               |
| 11ac (VHT20)               | CH149   | 5745            | 0.00                  | 17.66               |
| 11ac (VHT20)               | CH157   | 5785            | 0.00                  | 17.71               |
| 11ac (VHT20)               | CH165   | 5825            | 0.00                  | 17.71               |
| 11ac (VHT40)               | CH151   | 5755            | 0.00                  | 36.12               |
| 11ac (VHT40)               | CH159   | 5795            | 0.00                  | 36.24               |
| 11ac (VHT80)               | CH155   | 5775            | 0.00                  | 75.49               |

### A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-EC1830163-604 Data Part 2.pdf".

#### Test Data

| Band IV (5725 - 5850 MHz ) |         |                 |                      |             |         |
|----------------------------|---------|-----------------|----------------------|-------------|---------|
| Mode                       | Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (kHz) | Verdict |
| 11a                        | CH149   | 5745            | 14.17                | 0.5         | Pass    |
| 11a                        | CH157   | 5785            | 16.42                | 0.5         | Pass    |
| 11a                        | CH165   | 5825            | 16.47                | 0.5         | Pass    |
| 11n (HT20)                 | CH149   | 5745            | 17.72                | 0.5         | Pass    |
| 11n (HT20)                 | CH157   | 5785            | 17.72                | 0.5         | Pass    |
| 11n (HT20)                 | CH165   | 5825            | 17.72                | 0.5         | Pass    |
| 11n (HT40)                 | CH151   | 5755            | 35.57                | 0.5         | Pass    |
| 11n (HT40)                 | CH159   | 5795            | 33.27                | 0.5         | Pass    |
| 11n (HT20)                 | CH149   | 5745            | 15.77                | 0.5         | Pass    |
| 11n (HT20)                 | CH157   | 5785            | 17.72                | 0.5         | Pass    |
| 11n (HT20)                 | CH165   | 5825            | 17.67                | 0.5         | Pass    |
| 11n (HT40)                 | CH151   | 5755            | 34.87                | 0.5         | Pass    |
| 11n (HT40)                 | CH159   | 5795            | 30.77                | 0.5         | Pass    |
| 11ac (VHT80)               | CH155   | 5775            | 72.67                | 0.5         | Pass    |

## A.4 Power Spectral Density

Note: Test plots please refer to the document “Annex No.: BL-EC1830163-604 Data Part 3.pdf”.

### Test Data

| Band I (5150 - 5250 MHz) |         |                 |               |                    |         |
|--------------------------|---------|-----------------|---------------|--------------------|---------|
| Mode                     | Channel | Frequency (MHz) | PSD (dBm/MHz) | FCC Limit(dBm/MHz) | Verdict |
| 11a                      | CH36    | 5180            | 8.02          | 11                 | Pass    |
| 11a                      | CH44    | 5220            | 8.17          | 11                 | Pass    |
| 11a                      | CH48    | 5240            | 7.93          | 11                 | Pass    |
| 11n (HT20)               | CH36    | 5180            | 7.79          | 11                 | Pass    |
| 11n (HT20)               | CH44    | 5220            | 7.34          | 11                 | Pass    |
| 11n (HT20)               | CH48    | 5240            | 7.87          | 11                 | Pass    |
| 11n (HT40)               | CH38    | 5190            | 5.03          | 11                 | Pass    |
| 11n (HT40)               | CH46    | 5230            | 6.74          | 11                 | Pass    |
| 11ac (VHT20)             | CH36    | 5180            | 7.83          | 11                 | Pass    |
| 11ac(VHT20)              | CH44    | 5220            | 7.74          | 11                 | Pass    |
| 11ac(VHT20)              | CH48    | 5240            | 7.42          | 11                 | Pass    |
| 11ac (VHT40)             | CH38    | 5190            | 5.56          | 11                 | Pass    |
| 11ac (VHT40)             | CH46    | 5230            | 6.64          | 11                 | Pass    |
| 11ac (VHT80)             | CH42    | 5210            | 3.89          | 11                 | Pass    |

| Band IV (5725 - 5850 MHz) |         |                 |               |                    |         |
|---------------------------|---------|-----------------|---------------|--------------------|---------|
| Mode                      | Channel | Frequency (MHz) | PSD (dBm/MHz) | FCC Limit(dBm/MHz) | Verdict |
| 11a                       | CH149   | 5745            | 4.19          | 30                 | Pass    |
| 11a                       | CH157   | 5785            | 4.55          | 30                 | Pass    |
| 11a                       | CH165   | 5825            | 4.60          | 30                 | Pass    |
| 11n (HT20)                | CH149   | 5745            | 4.30          | 30                 | Pass    |
| 11n (HT20)                | CH157   | 5785            | 4.26          | 30                 | Pass    |
| 11n (HT20)                | CH165   | 5825            | 4.29          | 30                 | Pass    |
| 11n (HT40)                | CH151   | 5755            | -2.58         | 30                 | Pass    |
| 11n (HT40)                | CH159   | 5795            | -2.46         | 30                 | Pass    |
| 11ac (VHT20)              | CH149   | 5745            | 4.81          | 30                 | Pass    |
| 11ac(VHT20)               | CH157   | 5785            | 4.57          | 30                 | Pass    |
| 11ac(VHT20)               | CH165   | 5825            | 4.24          | 30                 | Pass    |
| 11ac (VHT40)              | CH151   | 5755            | -2.12         | 30                 | Pass    |
| 11ac (VHT40)              | CH159   | 5795            | -1.99         | 30                 | Pass    |
| 11ac (VHT80)              | CH155   | 5775            | -2.17         | 30                 | Pass    |

## EIRP PSD

| Band I (5150 - 5250 MHz) |         |                 |               |                    |         |
|--------------------------|---------|-----------------|---------------|--------------------|---------|
| Mode                     | Channel | Frequency (MHz) | PSD (dBm/MHz) | IC Limit (dBm/MHz) | Verdict |
| 11a                      | CH36    | 5180            | 9.34          | 10                 | Pass    |
| 11a                      | CH44    | 5220            | 9.49          | 10                 | Pass    |
| 11a                      | CH48    | 5240            | 9.25          | 10                 | Pass    |
| 11n (HT20)               | CH36    | 5180            | 9.11          | 10                 | Pass    |
| 11n (HT20)               | CH44    | 5220            | 8.66          | 10                 | Pass    |
| 11n (HT20)               | CH48    | 5240            | 9.19          | 10                 | Pass    |
| 11n (HT40)               | CH38    | 5190            | 6.35          | 10                 | Pass    |
| 11n (HT40)               | CH46    | 5230            | 8.06          | 10                 | Pass    |
| 11ac (VHT20)             | CH36    | 5180            | 9.15          | 10                 | Pass    |
| 11ac(VHT20)              | CH44    | 5220            | 9.06          | 10                 | Pass    |
| 11ac(VHT20)              | CH48    | 5240            | 8.74          | 10                 | Pass    |
| 11ac (VHT40)             | CH38    | 5190            | 6.88          | 10                 | Pass    |
| 11ac (VHT40)             | CH46    | 5230            | 7.96          | 10                 | Pass    |
| 11ac (VHT80)             | CH42    | 5210            | 5.21          | 10                 | Pass    |

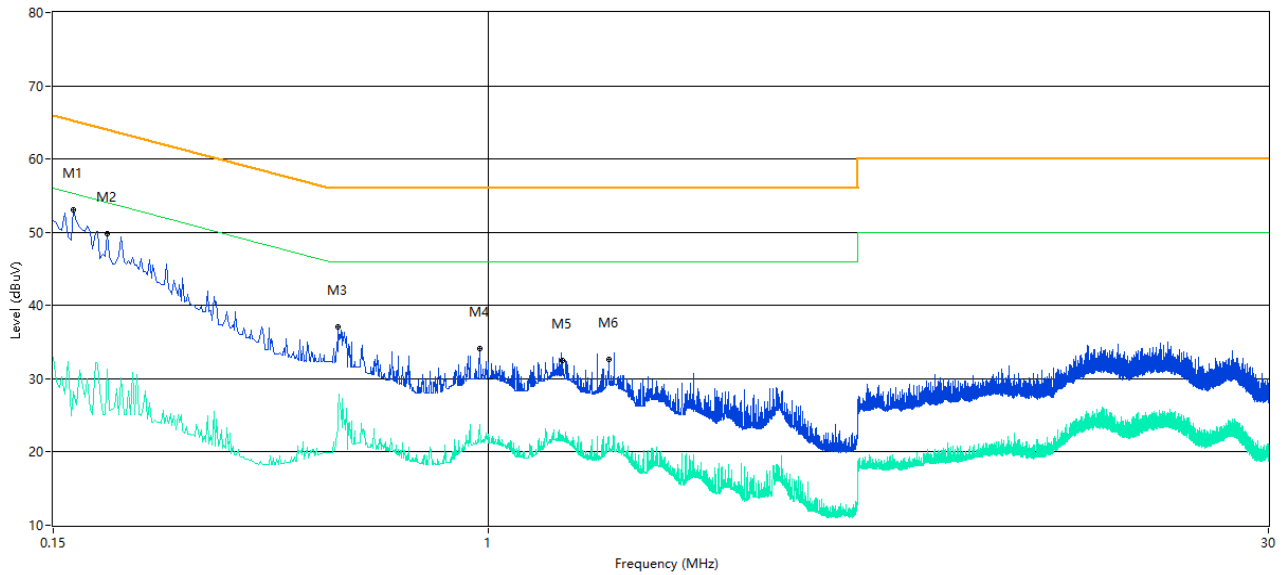
## A.5 Conducted Emissions

Note <sup>1</sup>: The EUT is working in the Normal link mode.

Note <sup>2</sup>: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

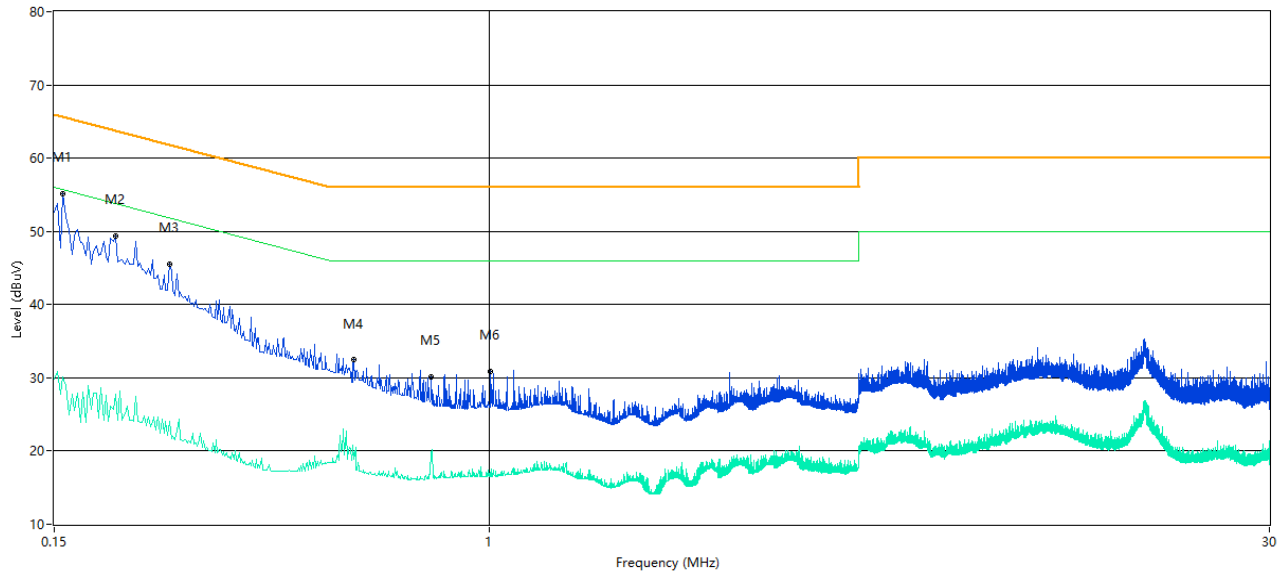
### Test Data and Plots

#### PHASE L



| Frequency (MHz) | Peak Level (dBuV) | Q-peak Level (dBuV) | Average Level (dBuV) | Factor (dB) | QP Limit (dBuV) | AV Limit (dBuV) | Margin (dB) | Line   | Verdict |
|-----------------|-------------------|---------------------|----------------------|-------------|-----------------|-----------------|-------------|--------|---------|
| 0.164           | 56.98             | 48.07               | 32.52                | 10.01       | 65.3            | 55.3            | 17.23       | L Line | Pass    |
| 0.190           | 53.82             | 45.45               | 29.39                | 10.01       | 64.0            | 54.0            | 18.55       | L Line | Pass    |
| 0.520           | 39.47             | 32.77               | 26.03                | 10.02       | 56.0            | 46.0            | 19.97       | L Line | Pass    |
| 0.964           | 35.48             | 27.46               | 22.25                | 10.03       | 56.0            | 46.0            | 23.75       | L Line | Pass    |
| 1.382           | 33.44             | 27.08               | 21.76                | 10.05       | 56.0            | 46.0            | 24.24       | L Line | Pass    |
| 1.692           | 33.47             | 26.05               | 21.26                | 10.06       | 56.0            | 46.0            | 24.74       | L Line | Pass    |

# PHASE N



| Frequency (MHz) | Peak Level (dBuV) | Q-peak Level (dBuV) | Average Level (dBuV) | Factor (dB) | QP Limit (dBuV) | AV Limit (dBuV) | Margin (dB) | Line   | Verdict |
|-----------------|-------------------|---------------------|----------------------|-------------|-----------------|-----------------|-------------|--------|---------|
| 0.156           | 56.06             | 47.96               | 29.66                | 10.00       | 65.7            | 55.7            | 17.74       | N Line | Pass    |
| 0.196           | 51.69             | 43.67               | 27.26                | 10.01       | 63.8            | 53.8            | 20.13       | N Line | Pass    |
| 0.248           | 46.81             | 37.70               | 23.83                | 10.01       | 61.8            | 51.8            | 24.10       | N Line | Pass    |
| 0.554           | 34.59             | 26.93               | 20.25                | 10.02       | 56.0            | 46.0            | 25.75       | N Line | Pass    |
| 0.776           | 34.16             | 26.21               | 22.89                | 10.03       | 56.0            | 46.0            | 23.11       | N Line | Pass    |
| 1.006           | 31.78             | 21.94               | 16.80                | 10.03       | 56.0            | 46.0            | 29.20       | N Line | Pass    |

## A.6 Conducted Spurious Emission and Band Edge (Authorized-band)

Note: Test plots please refer to the document “Annex No.: BL-EC1830163-604 Data Part 4.pdf”.

| Test Band | Mode           | Channel | Verdict |
|-----------|----------------|---------|---------|
| Band I    | 802.11a        | Low     | Pass    |
|           |                | Middle  | Pass    |
|           |                | High    | Pass    |
|           | 802.11n(HT20)  | Low     | Pass    |
|           |                | Middle  | Pass    |
|           |                | High    | Pass    |
|           | 802.11n(HT40)  | Low     | Pass    |
|           |                | High    | Pass    |
|           | 802.11ac(HT80) | Low     | Pass    |
| Band IV   | 802.11a        | Low     | Pass    |
|           |                | Middle  | Pass    |
|           |                | High    | Pass    |
|           | 802.11n(HT20)  | Low     | Pass    |
|           |                | Middle  | Pass    |
|           |                | High    | Pass    |
|           | 802.11n(HT40)  | Low     | Pass    |
|           |                | High    | Pass    |
|           | 802.11ac(HT80) | Low     | Pass    |

## A.7 Radiated Spurious Emissions and Band Edge (Restricted-band)

### Test Data

#### Cabinet Radiated spurious emission test

Note<sup>1</sup>: The symbol of “--” in the table which means not application.

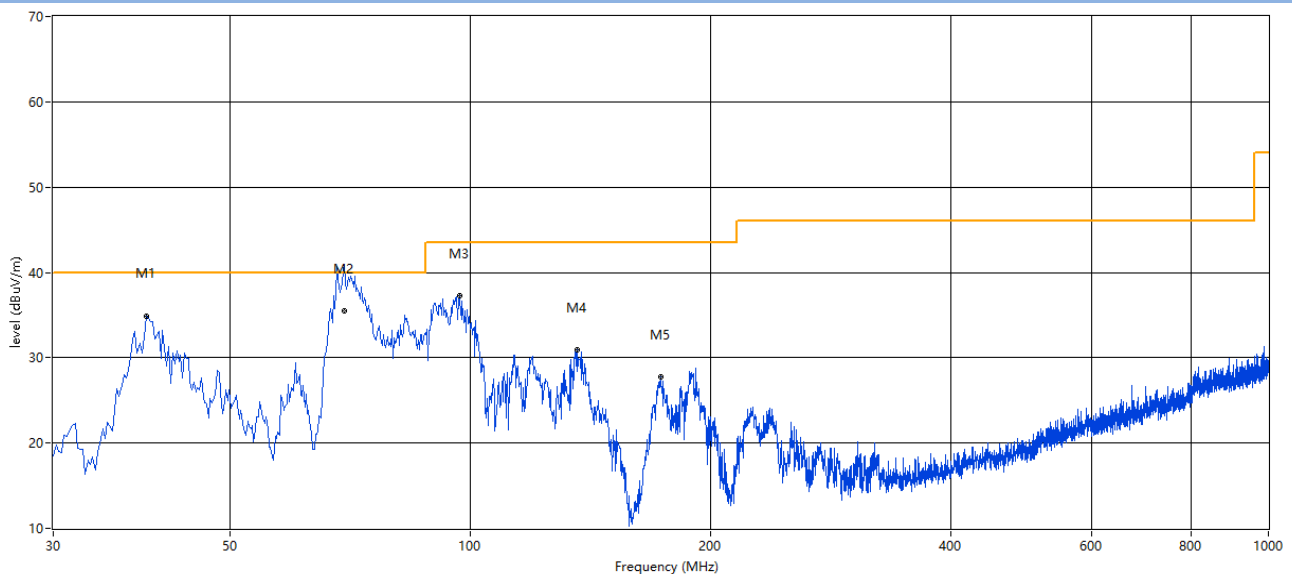
Note<sup>2</sup>: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note<sup>3</sup>: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note<sup>4</sup>: The EUT is working in the Normal link mode below 1 GHz.

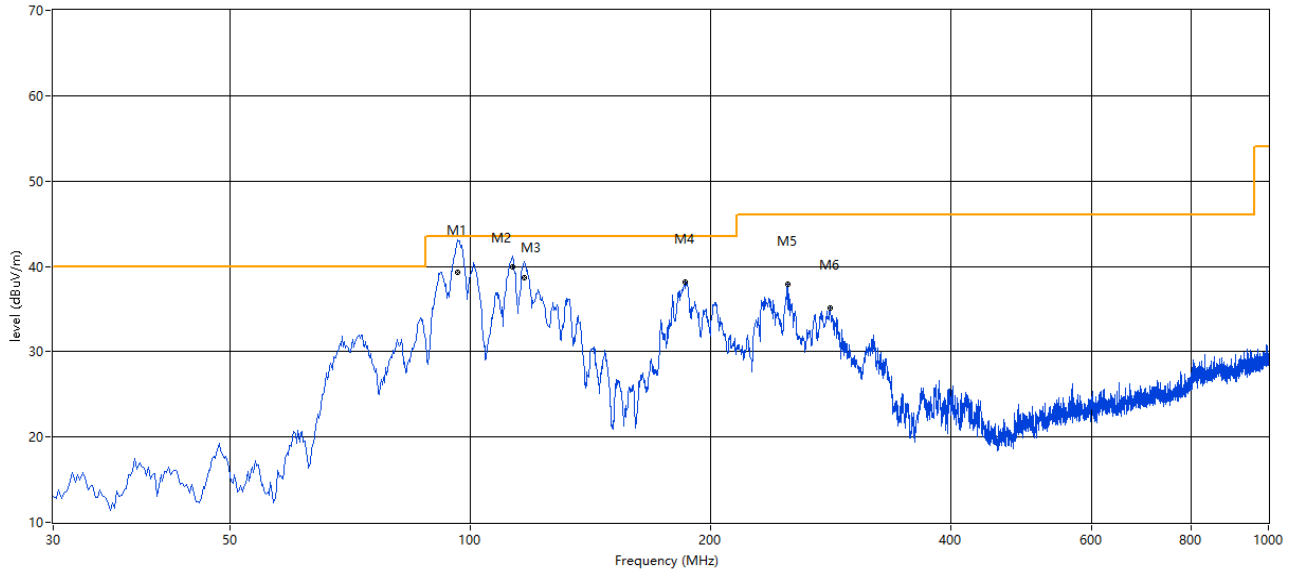
Note<sup>5</sup>: For Multiple transmitter output, the quantity  $10 \log (NANT)$  dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding  $10 \log(NANT)$  if the measurements are made relative to the in-band emissions on the individual outputs.

30 MHz to 1 GHz, ANT V



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 39.213             | 34.91                     | --                          | --                           | -27.31         | --                   | 40.0                 | --                   | 5.09           | 158.60    | 100            | Vertical | Pass    |
| 69.331             | 41.53                     | 35.46                       | --                           | -30.72         | --                   | 40.0                 | --                   | 4.54           | 307.50    | 100            | Vertical | Pass    |
| 96.913             | 37.33                     | --                          | --                           | -29.05         | --                   | 43.5                 | --                   | 6.17           | 255.50    | 100            | Vertical | Pass    |
| 135.946            | 30.95                     | --                          | --                           | -31.62         | --                   | 43.5                 | --                   | 12.55          | 155.60    | 100            | Vertical | Pass    |
| 173.039            | 27.70                     | --                          | --                           | -30.54         | --                   | 43.5                 | --                   | 15.80          | 129.70    | 100            | Vertical | Pass    |

## 30 MHz to 1 GHz, ANT H

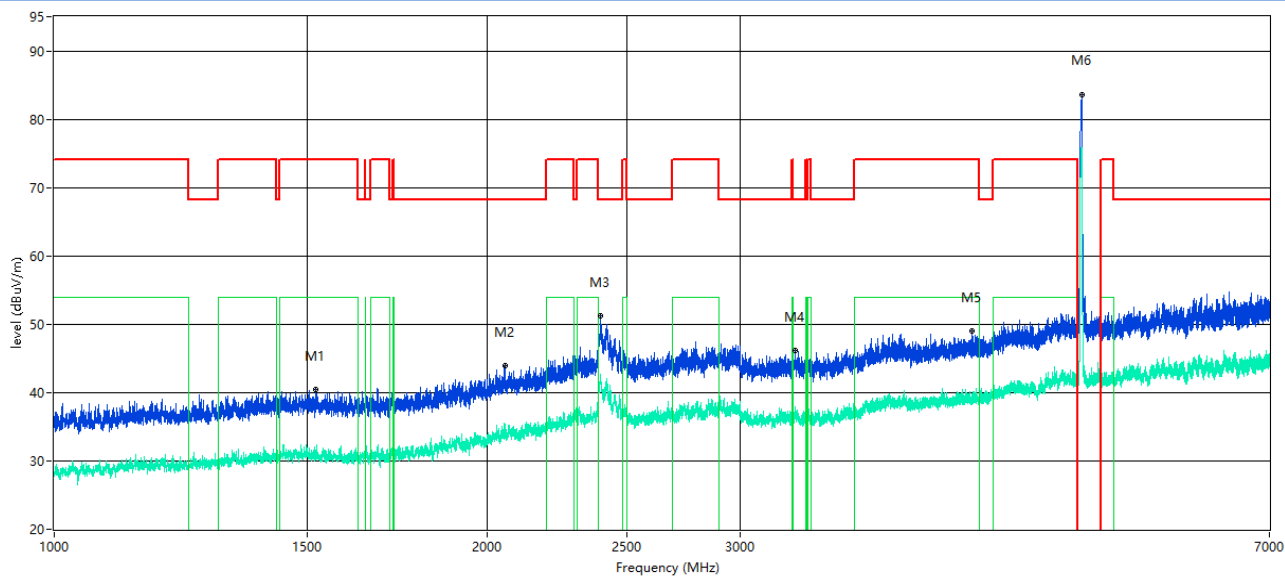


| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 96.540             | 43.14                     | 39.32                       | --                           | -29.12         | --                   | 43.5                 | --                   | 4.18           | 117.90    | 236            | Horizontal | Pass    |
| 113.100            | 43.55                     | 39.88                       | --                           | -28.86         | --                   | 43.5                 | --                   | 3.62           | 302.30    | 297            | Horizontal | Pass    |
| 116.944            | 42.24                     | 38.64                       | --                           | -29.61         | --                   | 43.5                 | --                   | 4.86           | 308.20    | 296            | Horizontal | Pass    |
| 185.889            | 38.17                     | --                          | --                           | -29.51         | --                   | 43.5                 | --                   | 5.33           | 0.00      | 200            | Horizontal | Pass    |
| 249.650            | 37.92                     | --                          | --                           | -26.91         | --                   | 46.0                 | --                   | 8.08           | 158.50    | 100            | Horizontal | Pass    |
| 282.379            | 35.17                     | --                          | --                           | -26.63         | --                   | 46.0                 | --                   | 10.83          | 322.20    | 100            | Horizontal | Pass    |

Note<sup>1</sup>: The device was evaluated/tested in XYZ orientation for radiated spurious emissions. And only the worst orientation of EUT was reported, which is the horizontal orientation.

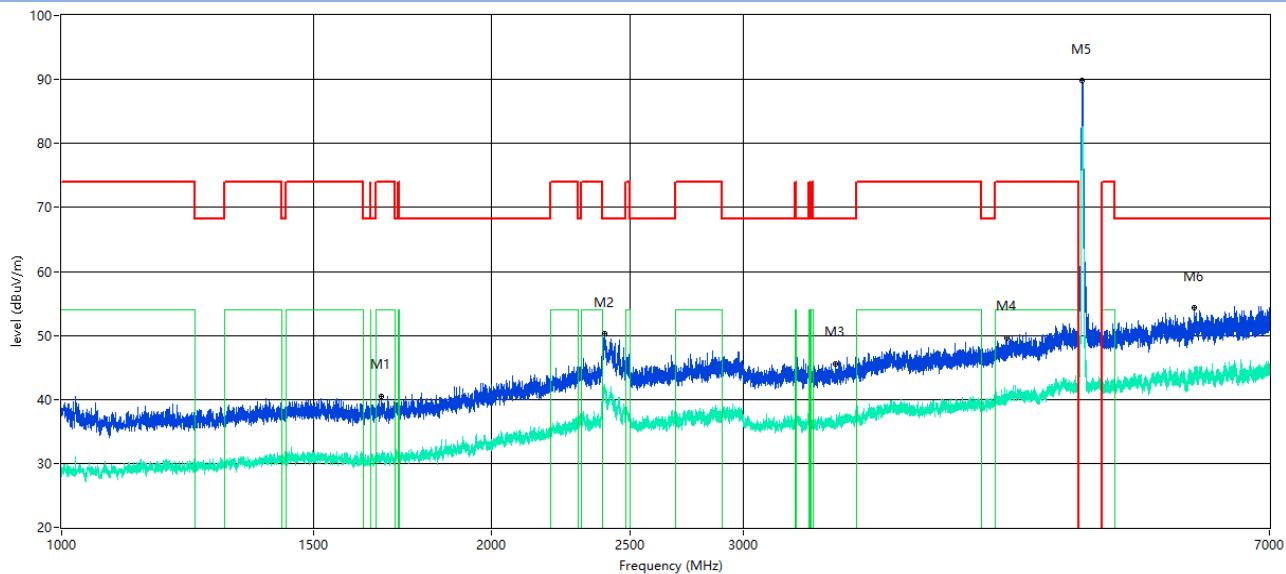
Note<sup>2</sup>: The spurious above 18G is noise only, do not show on the report.

### 1 GHz to 7 GHz, ANT V Band I 802.11a Low channel



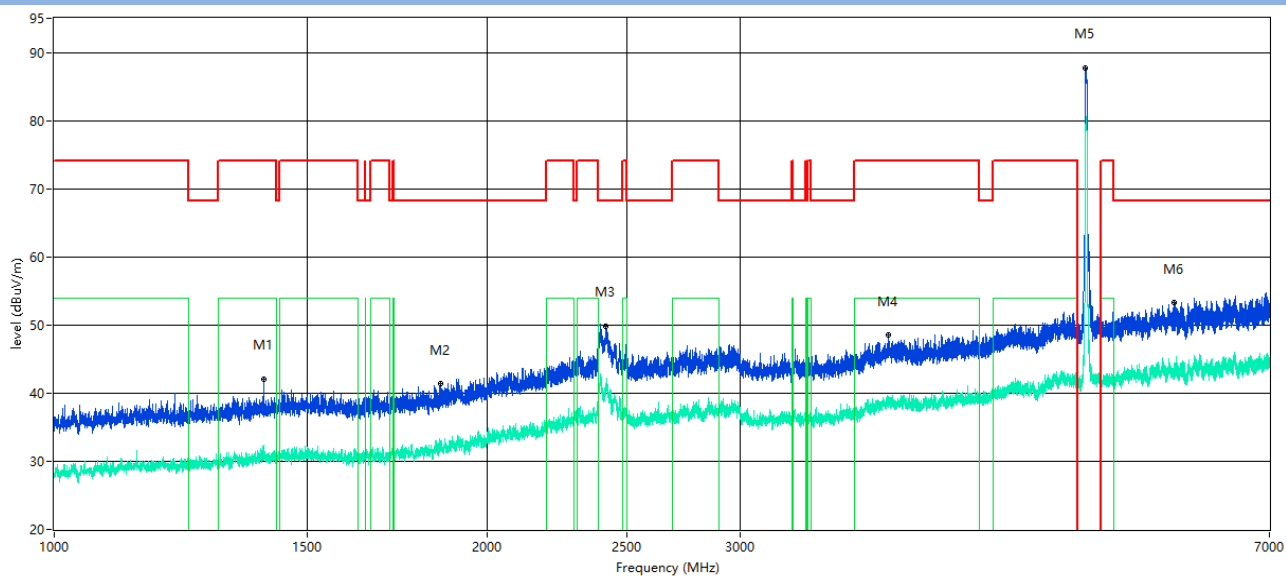
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1520.685           | 40.38                     | --                          | 31.4                         | -11.80         | 74.0                 | --                   | 54.0                 | 22.60          | 101.00    | 100            | Vertical | Pass    |
| 2057.868           | 43.91                     | --                          | 35.4                         | -8.16          | 68.2                 | --                   | --                   | 24.29          | 158.00    | 100            | Vertical | Pass    |
| 2397.075           | 51.19                     | --                          | 42.1                         | 0.01           | 68.2                 | --                   | --                   | 17.01          | 93.00     | 100            | Vertical | Pass    |
| 3277.090           | 46.11                     | --                          | 37.9                         | -4.00          | 68.2                 | --                   | --                   | 22.09          | 212.00    | 100            | Vertical | Pass    |
| 4345.332           | 49.05                     | --                          | 39.3                         | -1.99          | 74.0                 | --                   | 54.0                 | 14.70          | 183.00    | 100            | Vertical | Pass    |
| 5181.477           | 83.64                     | --                          | 75.9                         | 0.44           | --                   | --                   | --                   | --             | 62.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11a Low channel



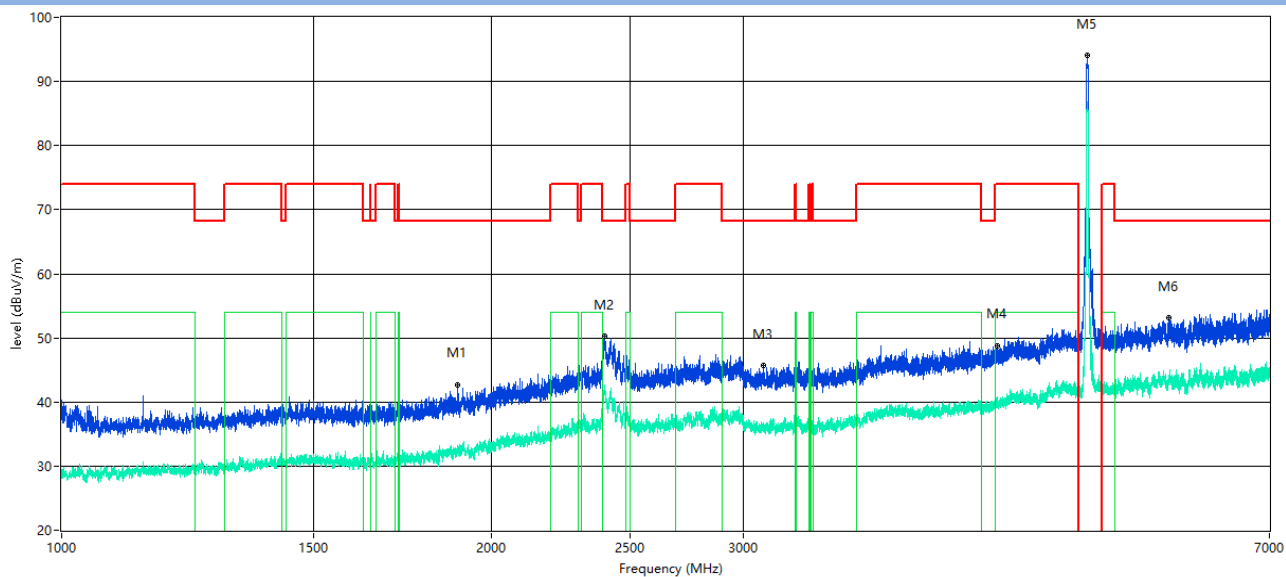
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1673.416           | 40.48                     | --                          | 31.3                         | -11.53         | 74.0                 | --                   | 54.0                 | 22.70          | 185.00    | 100            | Horizontal | Pass    |
| 2396.825           | 50.23                     | --                          | 41.2                         | 0.02           | 68.2                 | --                   | --                   | 17.97          | 132.00    | 100            | Horizontal | Pass    |
| 3479.940           | 45.55                     | --                          | 36.3                         | -5.34          | 68.2                 | --                   | --                   | 22.65          | 213.00    | 100            | Horizontal | Pass    |
| 4581.927           | 49.59                     | --                          | 41.1                         | -0.78          | 74.0                 | --                   | 54.0                 | 12.90          | 12.00     | 100            | Horizontal | Pass    |
| 5180.352           | 89.83                     | --                          | 82.3                         | 0.47           | --                   | --                   | --                   | --             | 65.00     | 100            | Horizontal | Pass    |
| 6204.974           | 54.25                     | --                          | 45.1                         | 4.39           | 68.2                 | --                   | --                   | 13.95          | 2.00      | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11a Middle channel



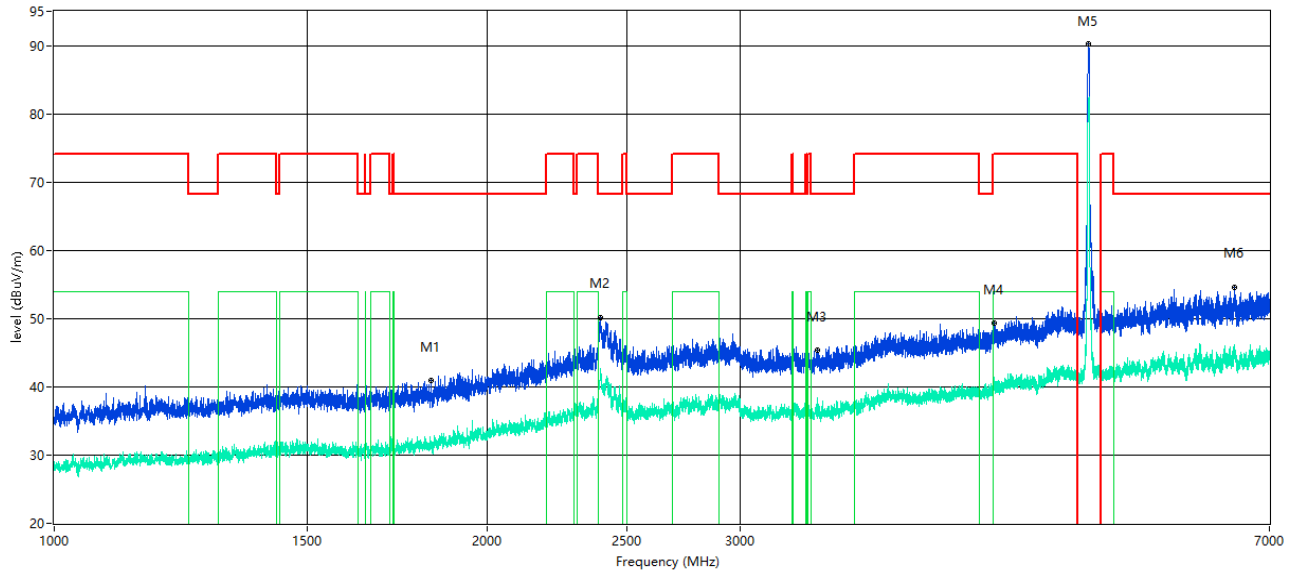
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1399.450           | 42.12                     | --                          | 32.3                         | -11.80         | 74.0                 | --                   | 54.0                 | 21.70          | 63.00     | 100            | Vertical | Pass    |
| 1856.643           | 41.38                     | --                          | 33.0                         | -9.96          | 68.2                 | --                   | --                   | 26.82          | 105.00    | 100            | Vertical | Pass    |
| 2420.322           | 49.83                     | --                          | 41.4                         | -0.78          | 68.2                 | --                   | --                   | 18.37          | 210.00    | 100            | Vertical | Pass    |
| 3805.774           | 48.49                     | --                          | 39.5                         | -2.45          | 74.0                 | --                   | 54.0                 | 14.50          | 55.00     | 100            | Vertical | Pass    |
| 5216.348           | 87.72                     | --                          | 79.3                         | 0.63           | --                   | --                   | --                   | --             | 185.00    | 100            | Vertical | Pass    |
| 6007.499           | 53.32                     | --                          | 43.0                         | 3.02           | 68.2                 | --                   | --                   | 14.88          | 21.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11a Middle channel



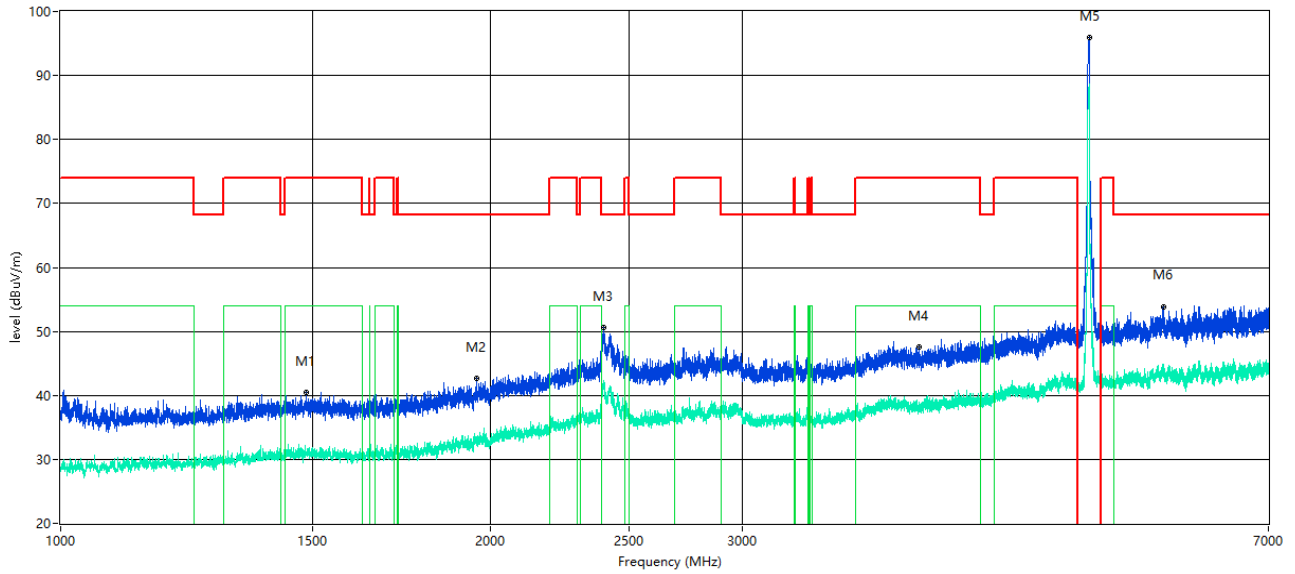
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1893.888           | 42.67                     | --                          | 33.1                         | -9.55          | 68.2                 | --                   | --                   | 25.53          | 102.00    | 100            | Horizontal | Pass    |
| 2400.075           | 50.24                     | --                          | 42.1                         | -0.08          | 68.2                 | --                   | --                   | 17.96          | 16.00     | 100            | Horizontal | Pass    |
| 3096.738           | 45.65                     | --                          | 36.7                         | -4.71          | 68.2                 | --                   | --                   | 22.55          | 78.00     | 100            | Horizontal | Pass    |
| 4519.685           | 48.81                     | --                          | 39.7                         | -1.29          | 74.0                 | --                   | 54.0                 | 14.30          | 225.00    | 100            | Horizontal | Pass    |
| 5223.097           | 94.01                     | --                          | 86.2                         | 0.64           | --                   | --                   | --                   | --             | 162.00    | 100            | Horizontal | Pass    |
| 5957.630           | 53.13                     | --                          | 43.8                         | 3.78           | 68.2                 | --                   | --                   | 15.07          | 13.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11a High channel



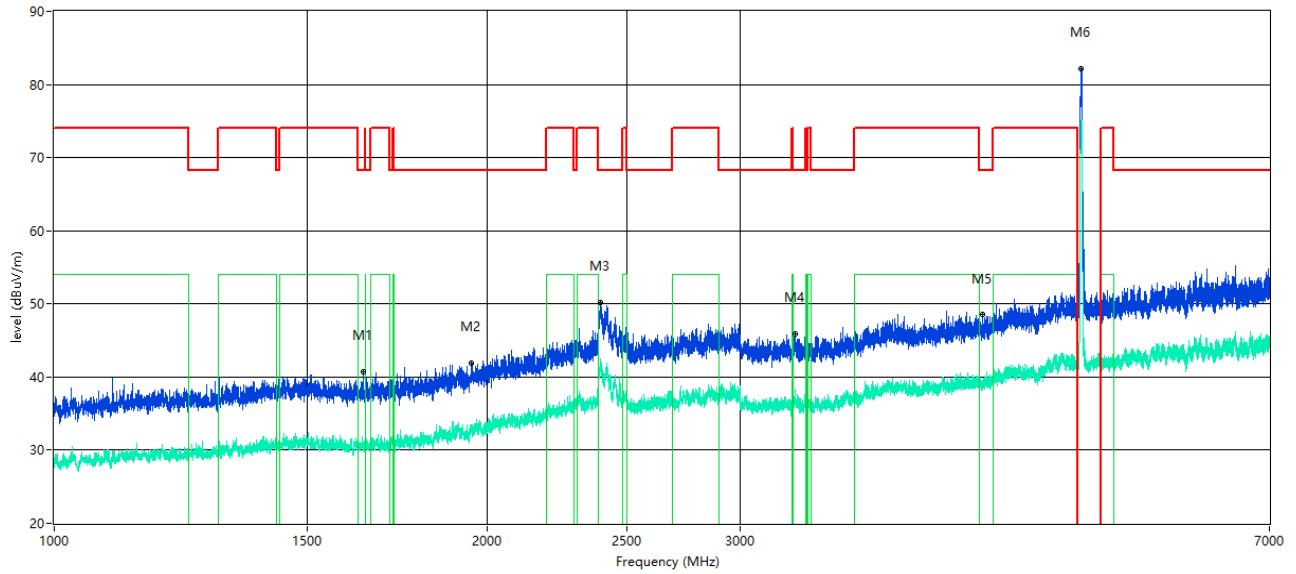
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1828.146           | 40.87                     | --                          | 31.9                         | -10.07         | 68.2                 | --                   | --                   | 27.33          | 113.00    | 100            | Vertical | Pass    |
| 2398.825           | 50.18                     | --                          | 42.6                         | -0.05          | 68.2                 | --                   | --                   | 18.02          | 215.00    | 100            | Vertical | Pass    |
| 3397.075           | 45.33                     | --                          | 38.3                         | -5.33          | 68.2                 | --                   | --                   | 22.87          | 78.00     | 100            | Vertical | Pass    |
| 4506.562           | 49.27                     | --                          | 40.1                         | -1.08          | 74.0                 | --                   | 54.0                 | 13.90          | 105.00    | 100            | Vertical | Pass    |
| 5242.970           | 90.29                     | --                          | 81.9                         | 0.85           | --                   | --                   | --                   | --             | 78.00     | 100            | Vertical | Pass    |
| 6618.048           | 54.51                     | --                          | 45.5                         | 5.52           | 68.2                 | --                   | --                   | 13.69          | 9.00      | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11a High channel



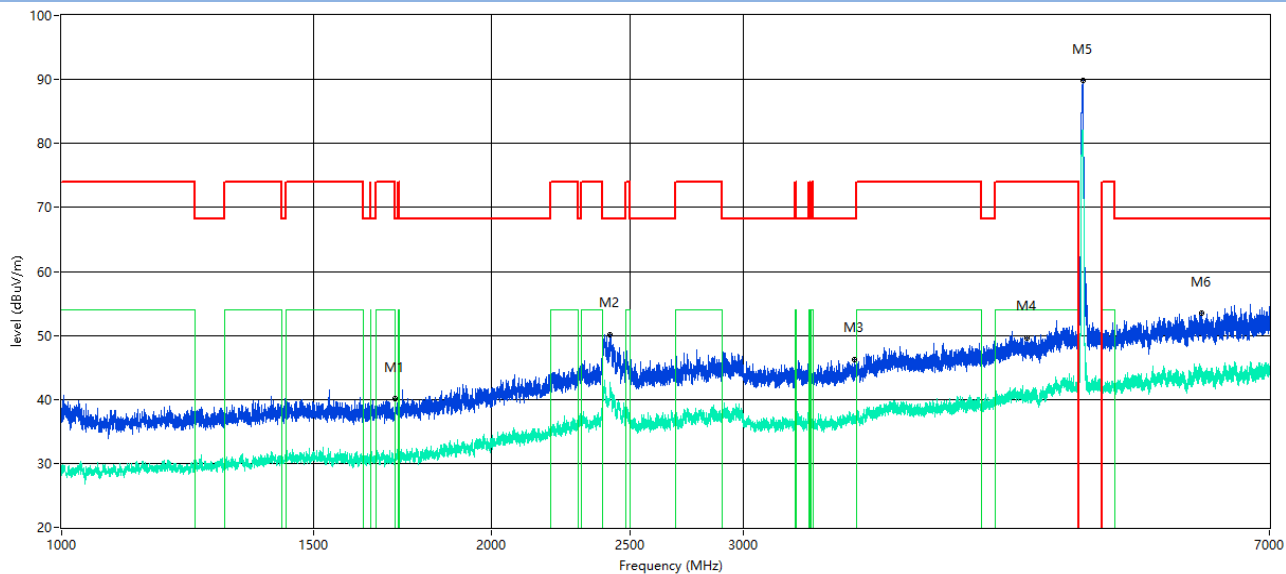
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1485.439           | 40.41                     | --                          | 31.0                         | -11.50         | 74.0                 | --                   | 54.0                 | 23.00          | 48.00     | 100            | Horizontal | Pass    |
| 1955.881           | 42.69                     | --                          | 33.5                         | -9.37          | 68.2                 | --                   | --                   | 25.51          | 161.00    | 100            | Horizontal | Pass    |
| 2396.575           | 50.59                     | --                          | 41.9                         | 0.03           | 68.2                 | --                   | --                   | 17.61          | 55.00     | 100            | Horizontal | Pass    |
| 3984.627           | 47.54                     | --                          | 38.2                         | -3.04          | 74.0                 | --                   | 54.0                 | 15.80          | 28.00     | 100            | Horizontal | Pass    |
| 5243.720           | 95.98                     | --                          | 88.0                         | 0.90           | --                   | --                   | --                   | --             | 185.00    | 100            | Horizontal | Pass    |
| 5912.261           | 53.86                     | --                          | 44.9                         | 3.23           | 68.2                 | --                   | --                   | 14.34          | 11.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11n(HT20) Low channel



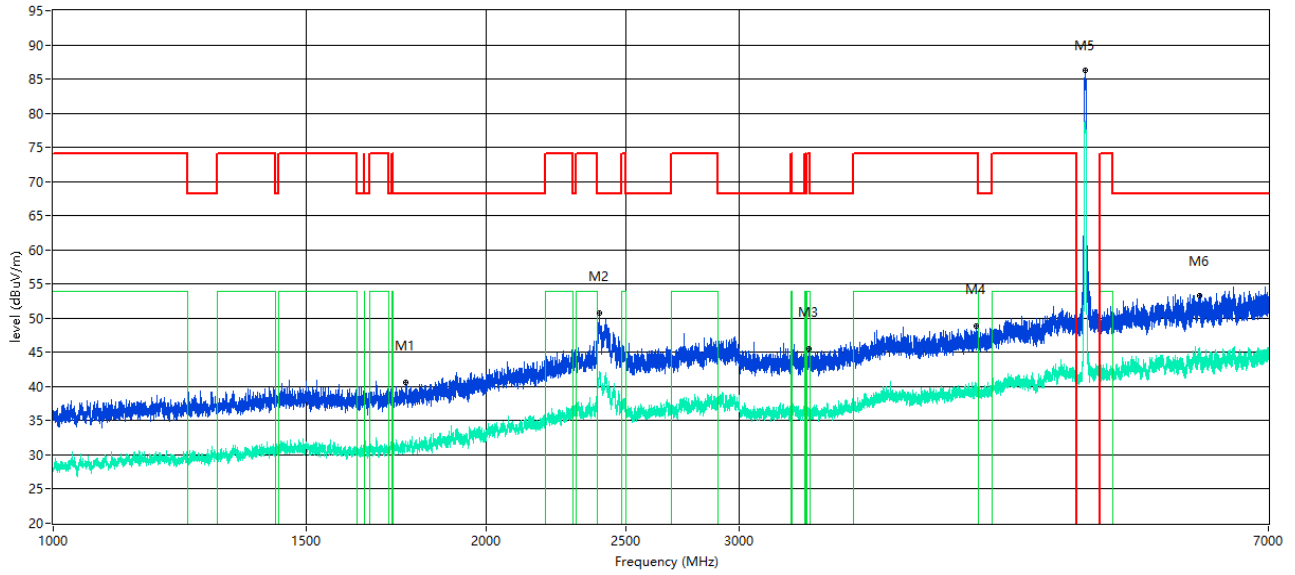
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1639.170           | 40.76                     | --                          | 30.8                         | -11.75         | 68.2                 | --                   | --                   | 27.44          | 102.00    | 100            | Vertical | Pass    |
| 1949.131           | 41.94                     | --                          | 33.0                         | -9.05          | 68.2                 | --                   | --                   | 26.26          | 58.00     | 100            | Vertical | Pass    |
| 2399.825           | 50.19                     | --                          | 42.5                         | -0.08          | 68.2                 | --                   | --                   | 18.01          | 91.00     | 100            | Vertical | Pass    |
| 3277.465           | 45.93                     | --                          | 36.9                         | -4.07          | 68.2                 | --                   | --                   | 22.27          | 210.00    | 100            | Vertical | Pass    |
| 4419.573           | 48.49                     | --                          | 39.2                         | -2.04          | 68.2                 | --                   | --                   | 19.71          | 331.00    | 100            | Vertical | Pass    |
| 5178.478           | 82.20                     | --                          | 74.9                         | 0.46           | --                   | --                   | --                   | --             | 11.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11n(HT20) Low channel



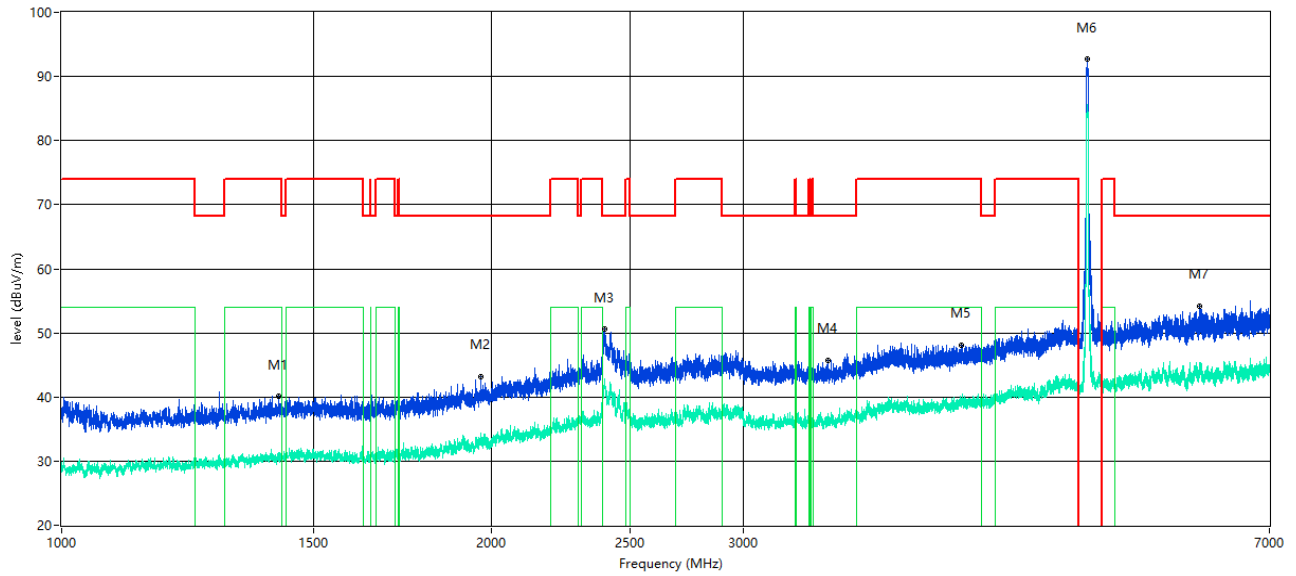
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1712.411           | 40.07                     | --                          | 31.8                         | -11.63         | 68.2                 | --                   | --                   | 28.13          | 108.00    | 100            | Horizontal | Pass    |
| 2420.822           | 50.12                     | --                          | 42.6                         | -0.79          | 68.2                 | --                   | --                   | 18.08          | 315.00    | 100            | Horizontal | Pass    |
| 3587.927           | 46.26                     | --                          | 37.1                         | -4.61          | 68.2                 | --                   | --                   | 21.94          | 76.00     | 100            | Horizontal | Pass    |
| 4734.158           | 49.67                     | --                          | 40.7                         | -0.25          | 74.0                 | --                   | 54.0                 | 13.30          | 28.00     | 100            | Horizontal | Pass    |
| 5183.727           | 89.78                     | --                          | 81.3                         | 0.38           | --                   | --                   | --                   | --             | 105.00    | 100            | Horizontal | Pass    |
| 6273.716           | 53.41                     | --                          | 44.4                         | 4.65           | 68.2                 | --                   | --                   | 14.79          | 16.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11n(HT20) Middle channel



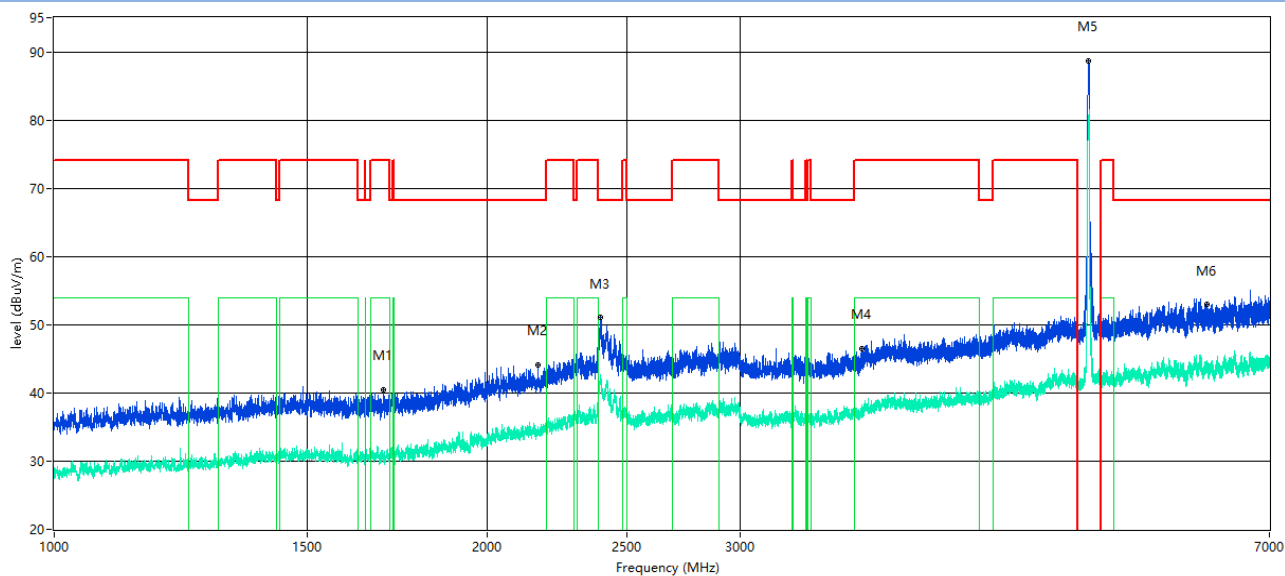
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1757.905           | 40.61                     | --                          | 31.9                         | -10.74         | 68.2                 | --                   | --                   | 27.59          | 101.00    | 100            | Vertical | Pass    |
| 2397.825           | 50.80                     | --                          | 42.1                         | -0.03          | 68.2                 | --                   | --                   | 17.40          | 51.00     | 100            | Vertical | Pass    |
| 3355.081           | 45.51                     | --                          | 36.2                         | -5.59          | 74.0                 | --                   | 54.0                 | 17.80          | 315.00    | 100            | Vertical | Pass    |
| 4381.702           | 48.89                     | --                          | 39.1                         | -1.86          | 74.0                 | --                   | 54.0                 | 14.90          | 223.00    | 100            | Vertical | Pass    |
| 5221.972           | 86.29                     | --                          | 78.8                         | 0.65           | --                   | --                   | --                   | --             | 88.00     | 100            | Vertical | Pass    |
| 6266.217           | 53.35                     | --                          | 44.3                         | 4.37           | 68.2                 | --                   | --                   | 14.85          | 11.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11n(HT20) Middle channel



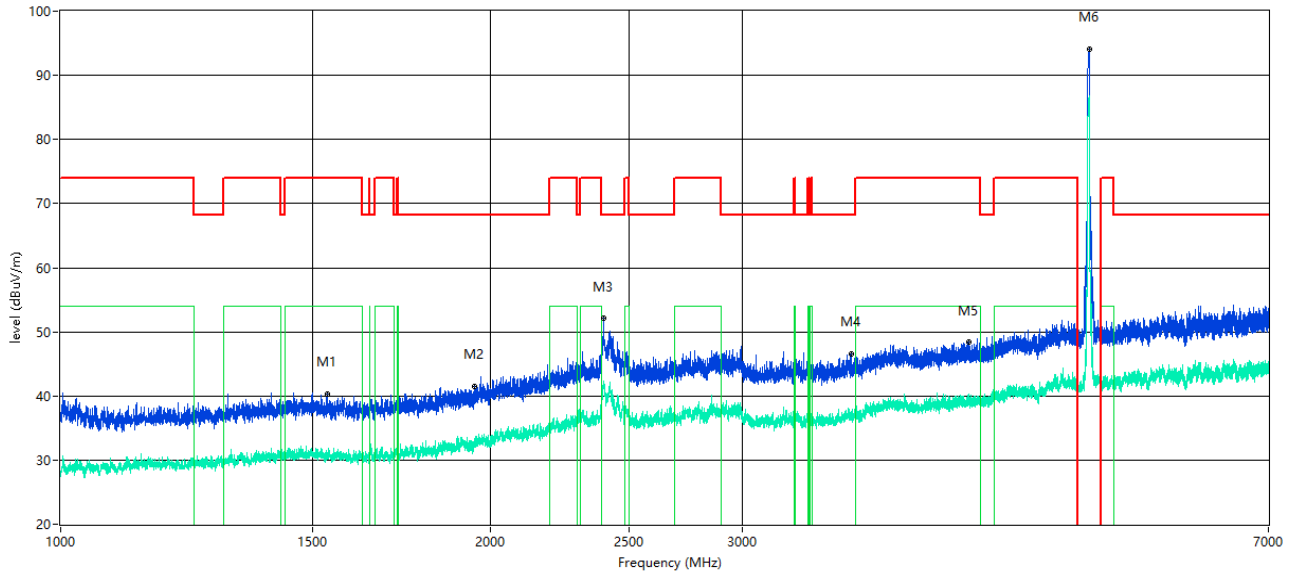
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1418.948           | 40.11                     | --                          | 30.7                         | -11.74         | 74.0                 | --                   | 54.0                 | 23.30          | 98.00     | 100            | Horizontal | Pass    |
| 1965.129           | 43.20                     | --                          | 33.3                         | -8.96          | 68.2                 | --                   | --                   | 25.00          | 113.00    | 100            | Horizontal | Pass    |
| 2398.075           | 50.60                     | --                          | 42.5                         | -0.03          | 68.2                 | --                   | --                   | 17.60          | 165.00    | 100            | Horizontal | Pass    |
| 3436.445           | 45.70                     | --                          | 35.8                         | -4.91          | 68.2                 | --                   | --                   | 22.50          | 48.00     | 100            | Horizontal | Pass    |
| 4263.592           | 48.07                     | --                          | 39.3                         | -1.80          | 74.0                 | --                   | 54.0                 | 14.70          | 381.00    | 100            | Horizontal | Pass    |
| 5224.222           | 92.71                     | --                          | 84.8                         | 0.64           | --                   | --                   | --                   | --             | 82.00     | 100            | Horizontal | Pass    |
| 6259.343           | 54.24                     | --                          | 45.1                         | 4.64           | 68.2                 | --                   | --                   | 13.96          | 6.00      | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11n(HT20) High channel



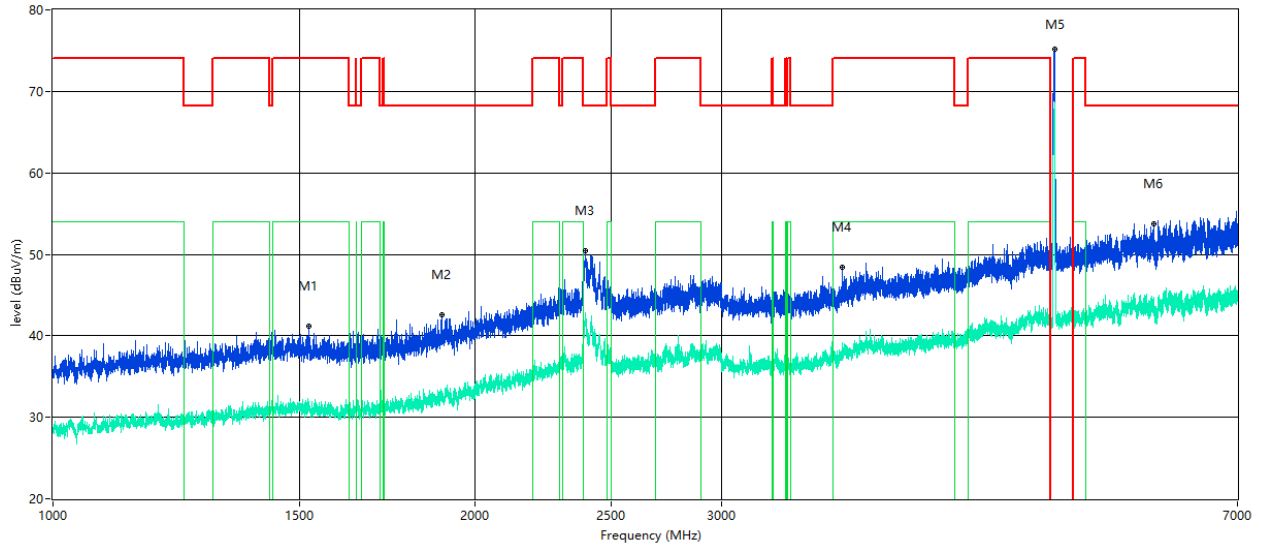
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1695.413           | 40.45                     | --                          | 30.8                         | -11.97         | 74.0                 | --                   | 54.0                 | 23.20          | 328.00    | 100            | Vertical | Pass    |
| 2169.104           | 44.14                     | --                          | 34.7                         | -7.28          | 68.2                 | --                   | --                   | 24.06          | 41.00     | 100            | Vertical | Pass    |
| 2397.575           | 51.04                     | --                          | 42.7                         | -0.02          | 68.2                 | --                   | --                   | 17.16          | 105.00    | 100            | Vertical | Pass    |
| 3643.420           | 46.48                     | --                          | 37.6                         | -3.86          | 74.0                 | --                   | 54.0                 | 16.40          | 81.00     | 100            | Vertical | Pass    |
| 5242.595           | 88.66                     | --                          | 80.7                         | 0.82           | --                   | --                   | --                   | --             | 163.00    | 100            | Vertical | Pass    |
| 6332.458           | 52.92                     | --                          | 43.6                         | 4.75           | 68.2                 | --                   | --                   | 15.28          | 12.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11n(HT20) High channel



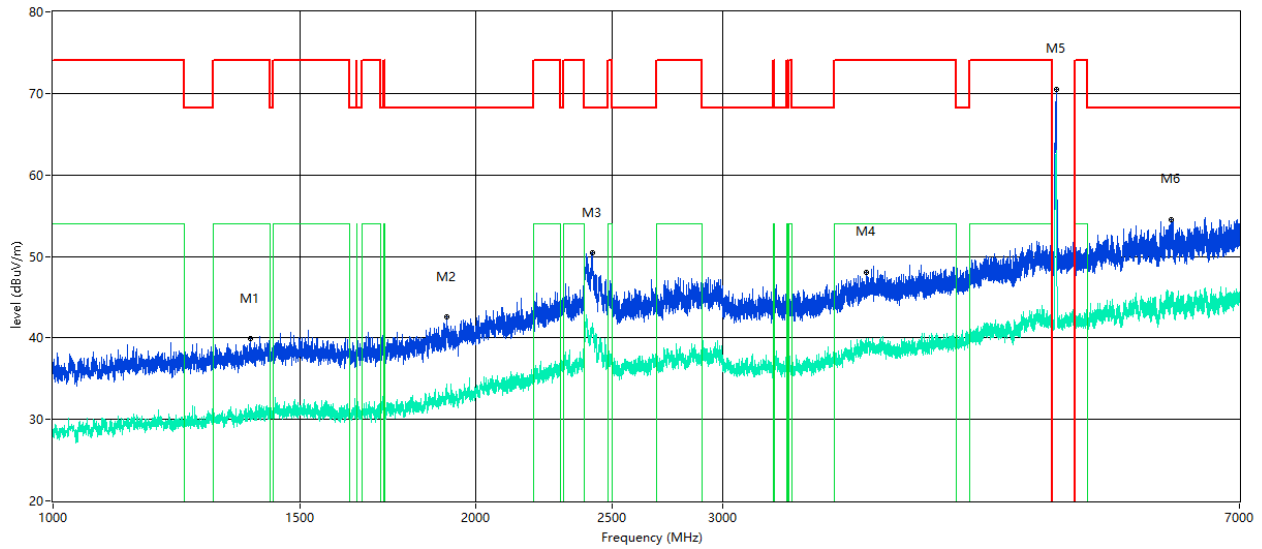
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1537.183           | 40.35                     | --                          | 30.9                         | -11.77         | 74.0                 | --                   | 54.0                 | 23.10          | 138.00    | 100            | Horizontal | Pass    |
| 1946.632           | 41.56                     | --                          | 32.9                         | -9.40          | 68.2                 | --                   | --                   | 26.64          | 130.00    | 100            | Horizontal | Pass    |
| 2398.075           | 52.10                     | --                          | 42.1                         | -0.03          | 68.2                 | --                   | --                   | 16.10          | 161.00    | 100            | Horizontal | Pass    |
| 3572.553           | 46.59                     | --                          | 36.5                         | -4.71          | 68.2                 | --                   | --                   | 21.61          | 62.00     | 100            | Horizontal | Pass    |
| 4323.210           | 48.37                     | --                          | 40.3                         | -2.05          | 74.0                 | --                   | 54.0                 | 13.70          | 222.00    | 100            | Horizontal | Pass    |
| 5242.970           | 94.09                     | --                          | 86.3                         | 0.85           | --                   | --                   | --                   | --             | 182.00    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11ac(HT20) Low channel



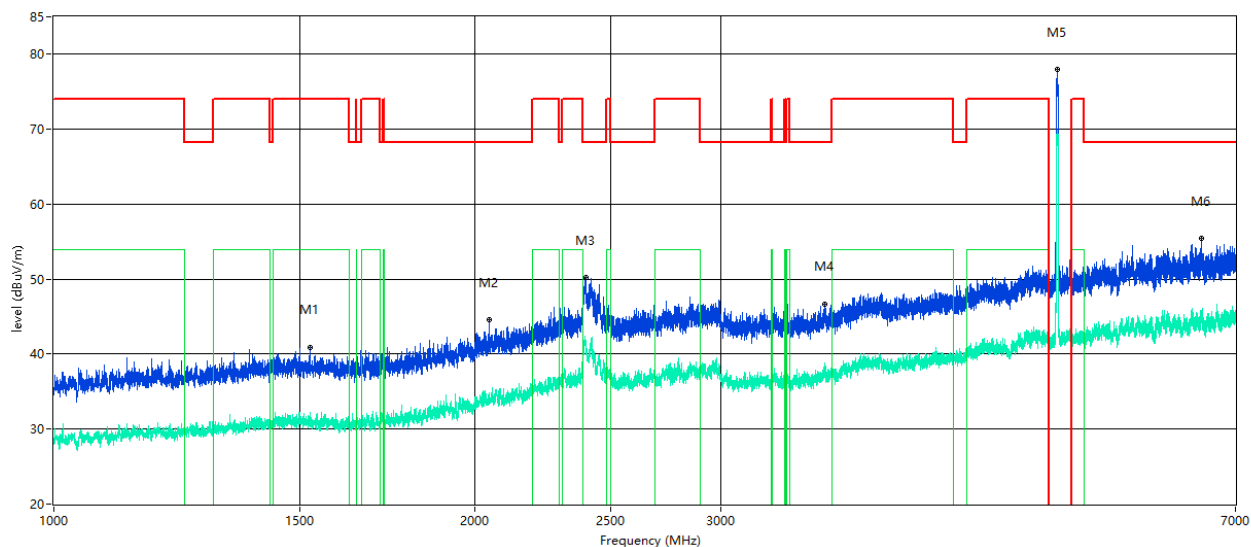
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1522.185           | 41.23                     | --                          | 31.9                         | -11.68         | 74.0                 | --                   | 54.0                 | 22.10          | 35.00     | 100            | Vertical | Pass    |
| 1893.138           | 42.56                     | --                          | 33.2                         | -9.47          | 68.2                 | --                   | --                   | 25.64          | 102.00    | 100            | Vertical | Pass    |
| 2398.575           | 50.39                     | --                          | 42.9                         | -0.05          | 68.2                 | --                   | --                   | 17.81          | 227.00    | 100            | Vertical | Pass    |
| 3659.168           | 48.41                     | --                          | 39.2                         | -3.88          | 74.0                 | --                   | 54.0                 | 14.80          | 108.00    | 100            | Vertical | Pass    |
| 5184.477           | 75.22                     | --                          | 68.1                         | 0.36           | --                   | --                   | --                   | --             | 13.00     | 100            | Vertical | Pass    |
| 6098.238           | 53.70                     | --                          | 44.7                         | 4.07           | 68.2                 | --                   | --                   | 14.50          | 9.00      | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11ac(HT20) Low channel



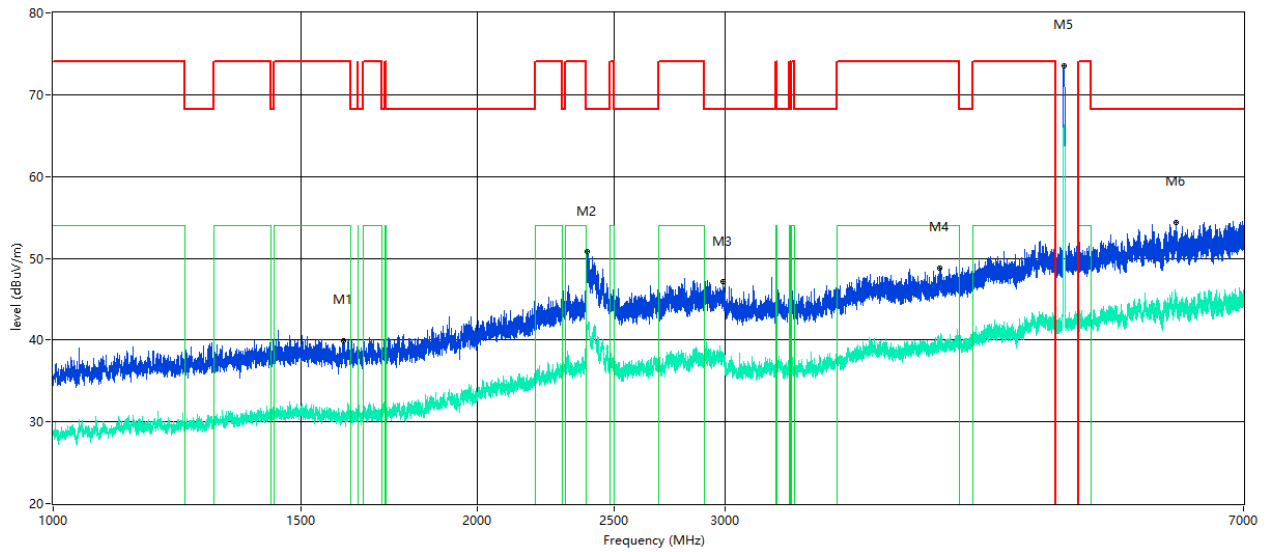
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1382.202           | 39.91                     | --                          | 31.3                         | -12.08         | 74.0                 | --                   | 54.0                 | 22.70          | 161.60    | 100            | Horizontal | Pass    |
| 1908.136           | 42.57                     | --                          | 33.1                         | -8.75          | 68.2                 | --                   | --                   | 25.63          | 280.50    | 100            | Horizontal | Pass    |
| 2424.322           | 50.40                     | --                          | 41.8                         | -0.92          | 68.2                 | --                   | --                   | 17.80          | 192.50    | 100            | Horizontal | Pass    |
| 3793.026           | 48.09                     | --                          | 38.7                         | -2.78          | 74.0                 | --                   | 54.0                 | 15.30          | 348.70    | 100            | Horizontal | Pass    |
| 5183.727           | 70.45                     | --                          | 63.0                         | 0.38           | --                   | --                   | --                   | --             | 360.00    | 100            | Horizontal | Pass    |
| 6261.967           | 54.46                     | --                          | 45.1                         | 4.56           | 68.2                 | --                   | --                   | 13.74          | 360.00    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11ac(HT20) Middle channel



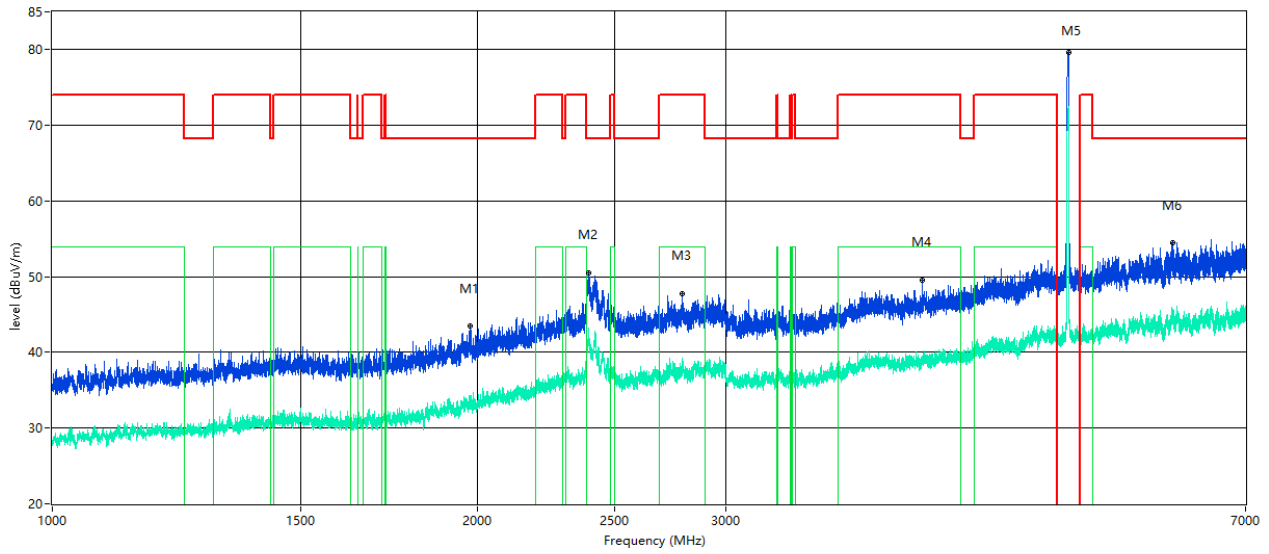
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1524.184           | 40.91                     | --                          | 32.2                         | -11.66         | 74.0                 | --                   | 54.0                 | 21.80          | 89.00     | 100            | Vertical | Pass    |
| 2048.619           | 44.54                     | --                          | 34.6                         | -7.85          | 68.2                 | --                   | --                   | 23.66          | 101.00    | 100            | Vertical | Pass    |
| 2400.575           | 50.17                     | --                          | 41.5                         | -0.10          | 68.2                 | --                   | --                   | 18.03          | 231.00    | 100            | Vertical | Pass    |
| 3557.930           | 46.60                     | --                          | 37.7                         | -4.09          | 68.2                 | --                   | --                   | 21.60          | 66.00     | 100            | Vertical | Pass    |
| 5223.847           | 77.95                     | --                          | 69.8                         | 0.64           | --                   | --                   | --                   | --             | 47.00     | 100            | Vertical | Pass    |
| 6622.422           | 55.45                     | --                          | 45.7                         | 5.25           | 68.2                 | --                   | --                   | 12.75          | 12.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11ac(HT20) Middle channel



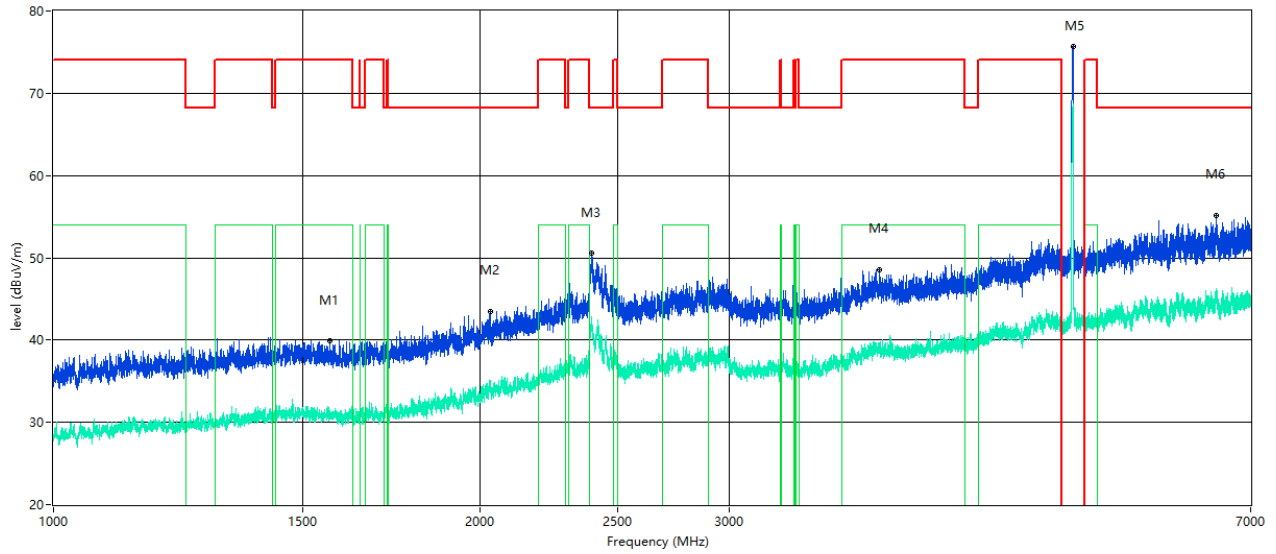
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1606.924           | 39.96                     | --                          | 31.3                         | -11.89         | 74.0                 | --                   | 54.0                 | 22.70          | 75.00     | 100            | Horizontal | Pass    |
| 2395.826           | 50.77                     | --                          | 41.8                         | 0.07           | 68.2                 | --                   | --                   | 17.43          | 67.00     | 100            | Horizontal | Pass    |
| 2987.502           | 47.17                     | --                          | 38.5                         | -3.03          | 68.2                 | --                   | --                   | 21.03          | 285.00    | 100            | Horizontal | Pass    |
| 4260.592           | 48.81                     | --                          | 39.9                         | -1.76          | 74.0                 | --                   | 54.0                 | 14.10          | 27.00     | 100            | Horizontal | Pass    |
| 5218.223           | 73.58                     | --                          | 66.1                         | 0.65           | --                   | --                   | --                   | --             | 185.00    | 100            | Horizontal | Pass    |
| 6269.216           | 54.41                     | --                          | 44.6                         | 4.26           | 68.2                 | --                   | --                   | 13.79          | 5.00      | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11ac(HT20) High channel



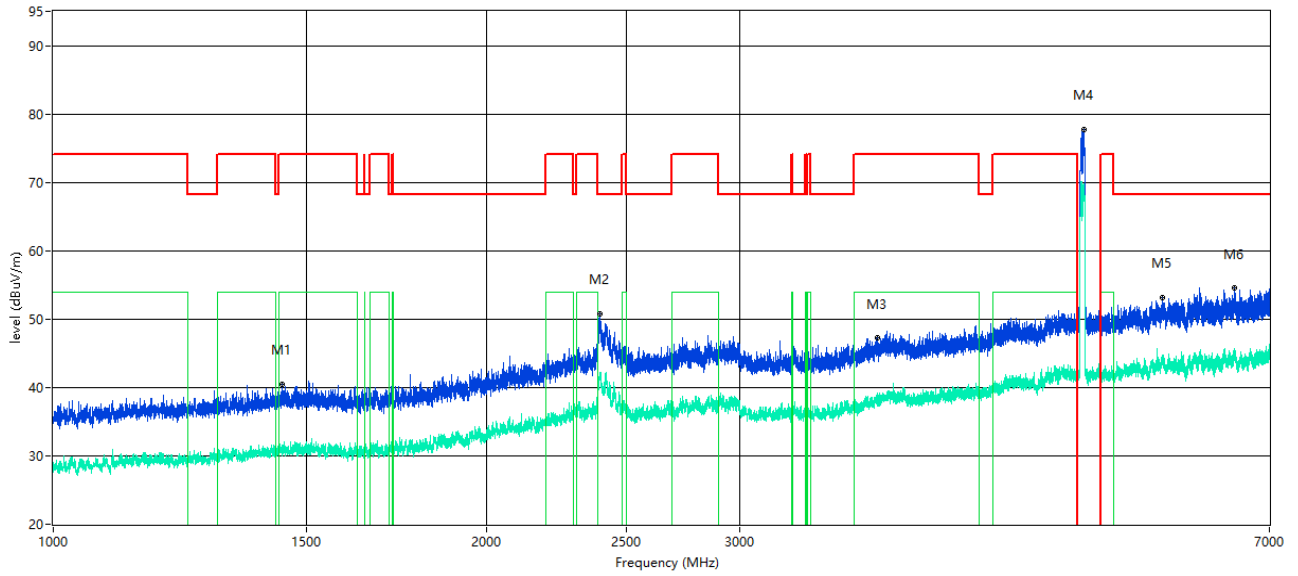
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1978.128           | 43.53                     | --                          | 33.6                         | -8.49          | 68.2                 | --                   | --                   | 24.67          | 103.00    | 100            | Vertical | Pass    |
| 2397.825           | 50.55                     | --                          | 42.8                         | -0.03          | 68.2                 | --                   | --                   | 17.65          | 89.00     | 100            | Vertical | Pass    |
| 2794.026           | 47.73                     | --                          | 39.2                         | -2.92          | 74.0                 | --                   | 54.0                 | 14.80          | 162.00    | 100            | Vertical | Pass    |
| 4130.859           | 49.56                     | --                          | 38.9                         | -2.33          | 74.0                 | --                   | 54.0                 | 15.10          | 18.00     | 100            | Vertical | Pass    |
| 5244.094           | 79.66                     | --                          | 71.3                         | 0.93           | --                   | --                   | --                   | --             | 138.00    | 100            | Vertical | Pass    |
| 6220.972           | 54.50                     | --                          | 44.9                         | 4.59           | 68.2                 | --                   | --                   | 13.70          | 14.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11ac(HT20) High channel



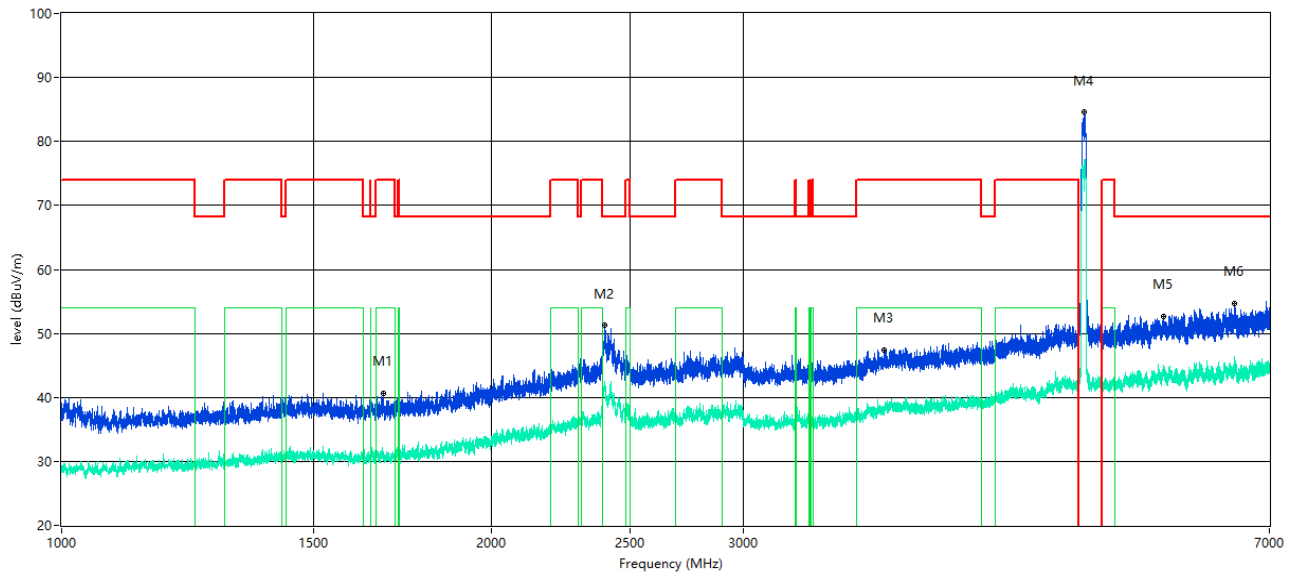
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1566.429           | 39.91                     | --                          | 31.2                         | -11.77         | 74.0                 | --                   | 54.0                 | 22.80          | 218.00    | 100            | Horizontal | Pass    |
| 2033.871           | 43.53                     | --                          | 35.1                         | -7.81          | 68.2                 | --                   | --                   | 24.67          | 78.20     | 100            | Horizontal | Pass    |
| 2398.825           | 50.55                     | --                          | 42.2                         | -0.05          | 68.2                 | --                   | --                   | 17.65          | 334.10    | 100            | Horizontal | Pass    |
| 3826.772           | 48.59                     | --                          | 39.4                         | -2.90          | 74.0                 | --                   | 54.0                 | 14.60          | 359.20    | 100            | Horizontal | Pass    |
| 5244.844           | 75.75                     | --                          | 68.2                         | 0.99           | --                   | --                   | --                   | --             | 4.00      | 100            | Horizontal | Pass    |
| 6617.548           | 55.20                     | --                          | 46.0                         | 5.49           | 68.2                 | --                   | --                   | 13.00          | 13.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11n(HT40) Low channel



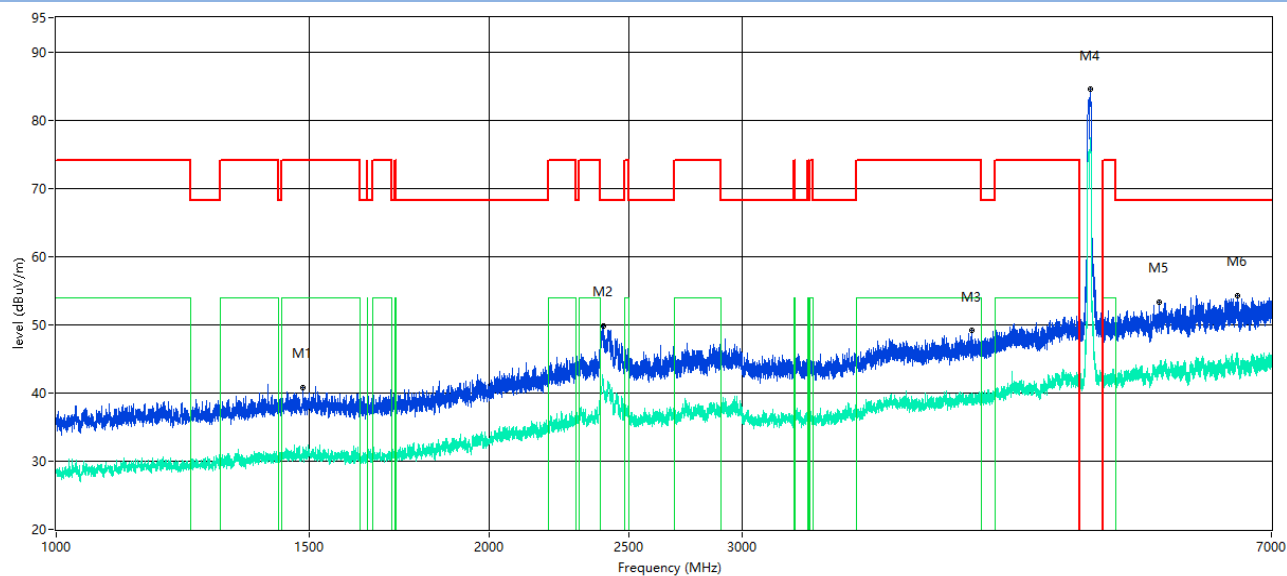
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1441.445           | 40.48                     | --                          | 31.3                         | -11.56         | 74.0                 | --                   | 54.0                 | 22.70          | 28.00     | 100            | Vertical | Pass    |
| 2399.075           | 50.82                     | --                          | 41.9                         | -0.06          | 68.2                 | --                   | --                   | 17.38          | 134.00    | 100            | Vertical | Pass    |
| 3739.783           | 47.23                     | --                          | 38.6                         | -2.88          | 74.0                 | --                   | 54.0                 | 15.40          | 262.00    | 100            | Vertical | Pass    |
| 5202.850           | 77.71                     | --                          | 69.7                         | 0.74           | --                   | --                   | --                   | --             | 313.00    | 100            | Vertical | Pass    |
| 5899.513           | 53.18                     | --                          | 44.4                         | 3.20           | 68.2                 | --                   | --                   | 15.02          | 38.00     | 100            | Vertical | Pass    |
| 6618.173           | 54.55                     | --                          | 45.4                         | 5.53           | 68.2                 | --                   | --                   | 13.65          | 45.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11n(HT40) Low channel



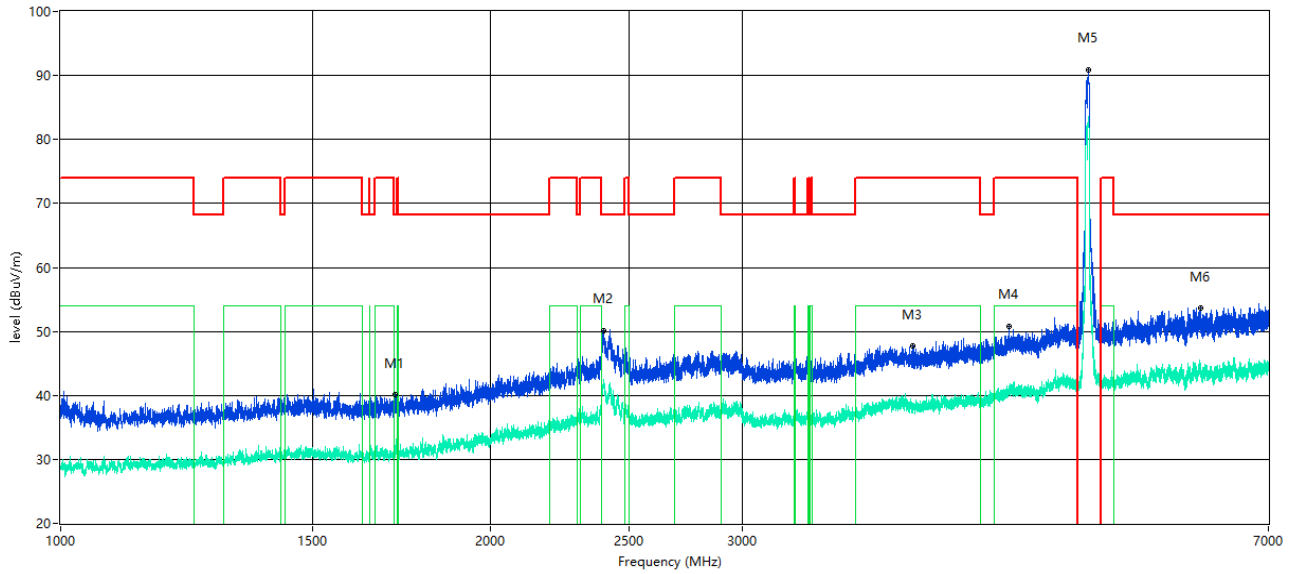
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1678.415           | 40.63                     | --                          | 31.3                         | -11.01         | 74.0                 | --                   | 54.0                 | 22.70          | 123.00    | 100            | Horizontal | Pass    |
| 2397.825           | 51.27                     | --                          | 41.8                         | -0.03          | 68.2                 | --                   | --                   | 16.93          | 162.00    | 100            | Horizontal | Pass    |
| 3763.405           | 47.41                     | --                          | 38.6                         | -3.12          | 74.0                 | --                   | 54.0                 | 15.40          | 13.00     | 100            | Horizontal | Pass    |
| 5194.226           | 84.53                     | --                          | 76.6                         | 0.49           | --                   | --                   | --                   | --             | 182.00    | 100            | Horizontal | Pass    |
| 5904.012           | 52.61                     | --                          | 44.6                         | 3.75           | 68.2                 | --                   | --                   | 15.59          | 69.00     | 100            | Horizontal | Pass    |
| 6620.922           | 54.61                     | --                          | 45.7                         | 5.36           | 68.2                 | --                   | --                   | 13.59          | 104.00    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11n(HT40) High channel



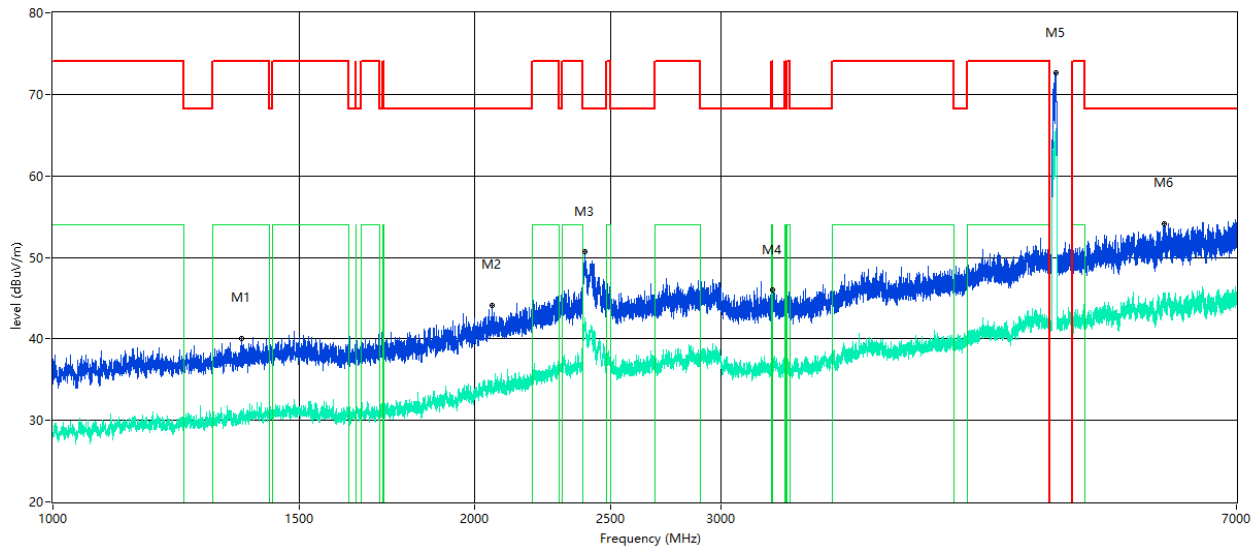
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1484.439           | 40.85                     | --                          | 31.5                         | -11.46         | 74.0                 | --                   | 54.0                 | 22.50          | 71.00     | 100            | Vertical | Pass    |
| 2400.075           | 49.88                     | --                          | 41.4                         | -0.08          | 68.2                 | --                   | --                   | 18.32          | 313.00    | 100            | Vertical | Pass    |
| 4331.459           | 49.10                     | --                          | 39.8                         | -2.23          | 74.0                 | --                   | 54.0                 | 14.20          | 103.00    | 100            | Vertical | Pass    |
| 5240.720           | 84.49                     | --                          | 76.6                         | 0.67           | --                   | --                   | --                   | --             | 215.00    | 100            | Vertical | Pass    |
| 5849.644           | 53.31                     | --                          | 44.0                         | 3.06           | 68.2                 | --                   | --                   | 14.89          | 58.00     | 100            | Vertical | Pass    |
| 6634.296           | 54.24                     | --                          | 44.5                         | 5.28           | 68.2                 | --                   | --                   | 13.96          | 38.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11n(HT40) High channel



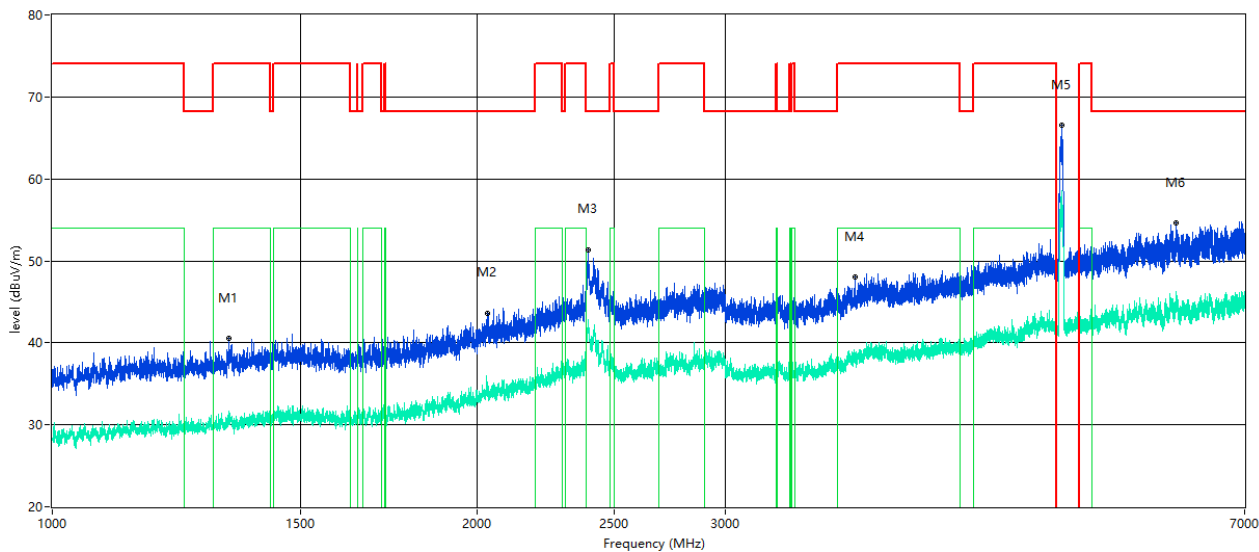
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1715.161           | 40.10                     | --                          | 31.3                         | -11.34         | 68.2                 | --                   | --                   | 28.10          | 18.00     | 100            | Horizontal | Pass    |
| 2397.325           | 50.18                     | --                          | 41.8                         | -0.01          | 68.2                 | --                   | --                   | 18.02          | 121.00    | 100            | Horizontal | Pass    |
| 3943.382           | 47.71                     | --                          | 38.7                         | -3.28          | 74.0                 | --                   | 54.0                 | 15.30          | 96.00     | 100            | Horizontal | Pass    |
| 4607.799           | 50.78                     | --                          | 41.1                         | 0.42           | 74.0                 | --                   | 54.0                 | 12.90          | 217.00    | 100            | Horizontal | Pass    |
| 5236.595           | 90.87                     | --                          | 82.5                         | 0.60           | --                   | --                   | --                   | --             | 335.00    | 100            | Horizontal | Pass    |
| 6274.341           | 53.67                     | --                          | 44.1                         | 4.61           | 68.2                 | --                   | --                   | 14.53          | 13.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11ac(HT40) Low channel



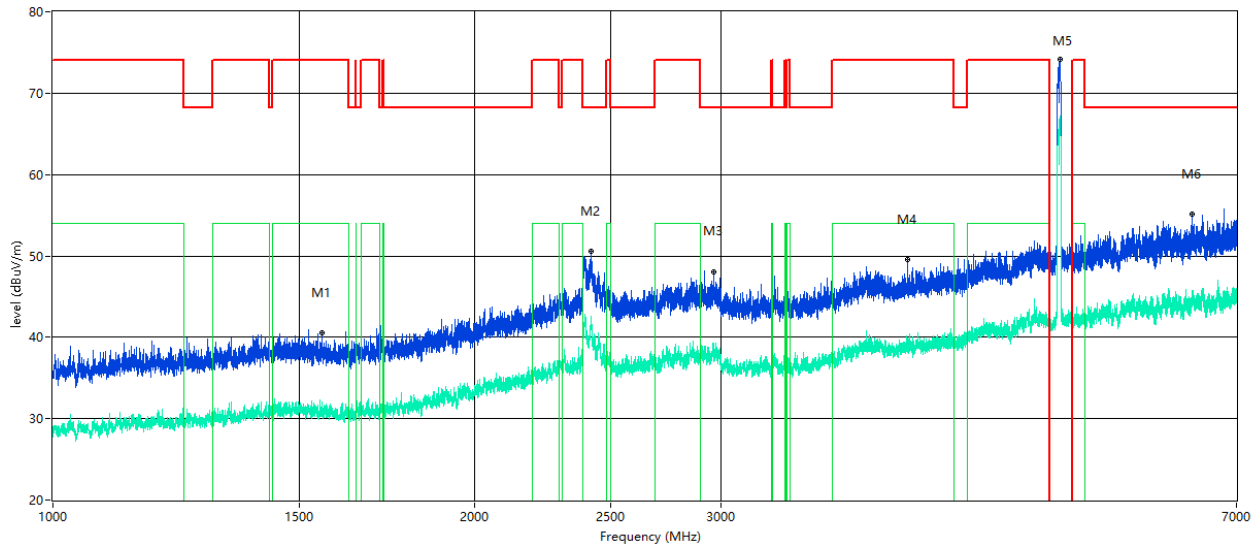
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1363.955           | 40.04                     | --                          | 31.0                         | -12.21         | 74.0                 | --                   | 54.0                 | 23.00          | 95.00     | 100            | Vertical | Pass    |
| 2058.618           | 44.12                     | --                          | 34.2                         | -8.20          | 68.2                 | --                   | --                   | 24.08          | 162.00    | 100            | Vertical | Pass    |
| 2397.825           | 50.64                     | --                          | 42.6                         | -0.03          | 68.2                 | --                   | --                   | 17.56          | 227.00    | 100            | Vertical | Pass    |
| 3264.717           | 46.01                     | --                          | 37.2                         | -4.85          | 74.0                 | --                   | 54.0                 | 16.80          | 351.00    | 100            | Vertical | Pass    |
| 5202.100           | 72.61                     | --                          | 65.3                         | 0.73           | --                   | --                   | --                   | --             | 104.00    | 100            | Vertical | Pass    |
| 6219.723           | 54.12                     | --                          | 44.6                         | 4.52           | 68.2                 | --                   | --                   | 14.08          | 7.00      | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11ac(HT40) Low channel



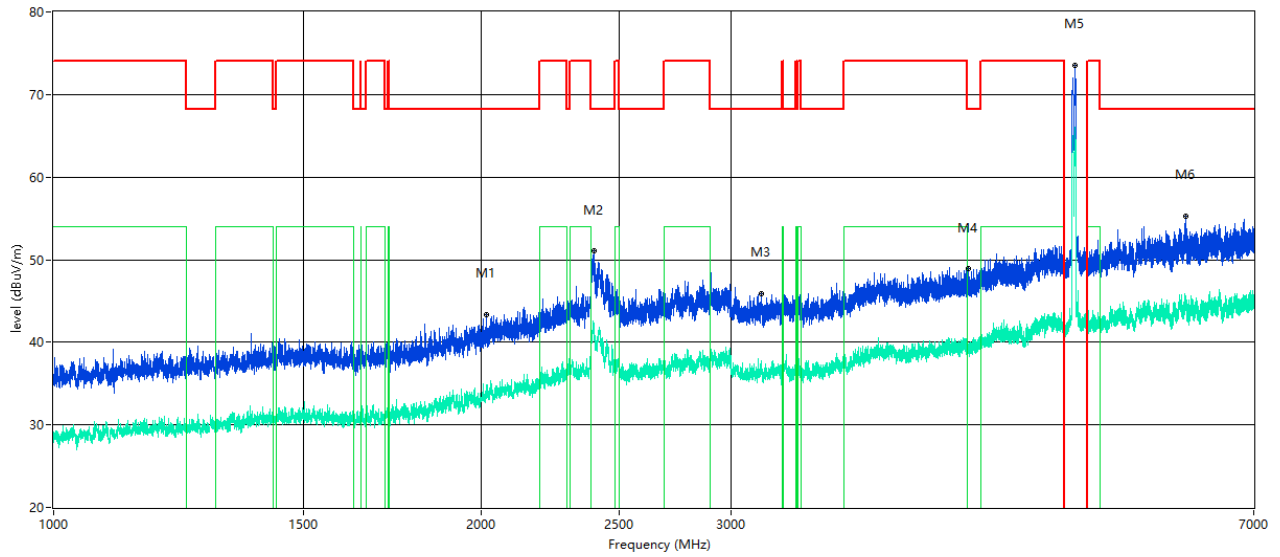
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1333.458           | 40.50                     | --                          | 31.6                         | -11.72         | 74.0                 | --                   | 54.0                 | 22.40          | 101.20    | 100            | Horizontal | Pass    |
| 2033.371           | 43.66                     | --                          | 34.6                         | -7.75          | 68.2                 | --                   | --                   | 24.54          | 360.00    | 100            | Horizontal | Pass    |
| 2397.075           | 51.35                     | --                          | 41.6                         | 0.01           | 68.2                 | --                   | --                   | 16.85          | 189.00    | 100            | Horizontal | Pass    |
| 3705.287           | 48.09                     | --                          | 38.1                         | -3.52          | 74.0                 | --                   | 54.0                 | 15.90          | 264.10    | 100            | Horizontal | Pass    |
| 5191.601           | 66.54                     | --                          | 58.2                         | 0.35           | --                   | --                   | --                   | --             | 109.90    | 100            | Horizontal | Pass    |
| 6258.968           | 54.65                     | --                          | 45.2                         | 4.65           | 68.2                 | --                   | --                   | 13.55          | 180.30    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11ac(HT40) High channel



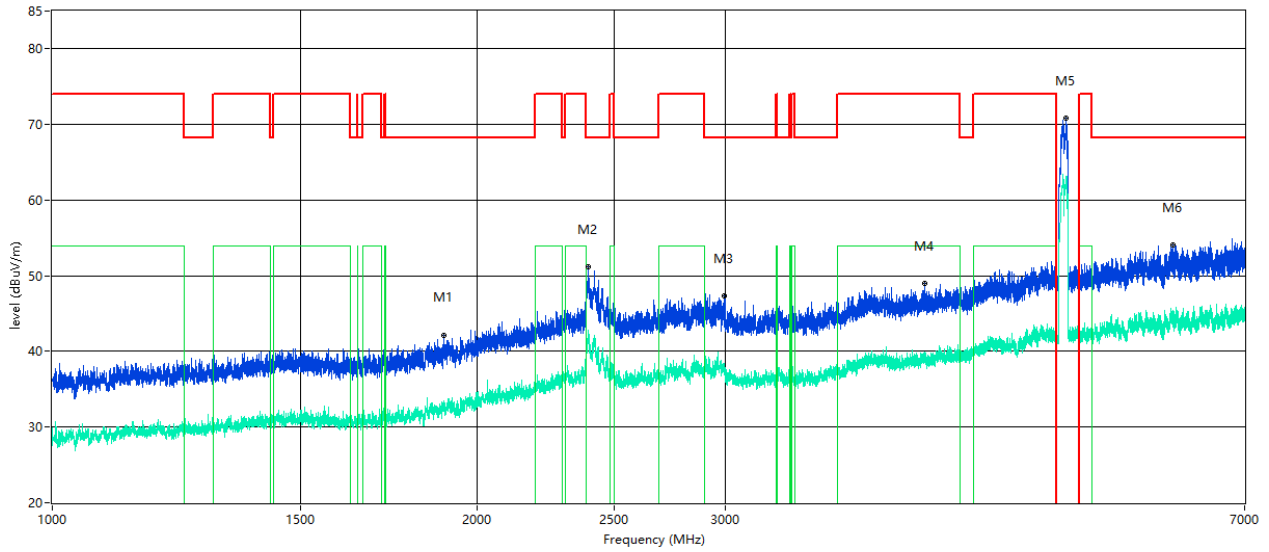
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1557.180           | 40.49                     | --                          | 32.1                         | -11.83         | 74.0                 | --                   | 54.0                 | 21.90          | 20.00     | 100            | Vertical | Pass    |
| 2424.072           | 50.58                     | --                          | 41.5                         | -0.91          | 68.2                 | --                   | --                   | 17.62          | 37.00     | 100            | Vertical | Pass    |
| 2962.505           | 48.10                     | --                          | 38.4                         | -3.08          | 68.2                 | --                   | --                   | 20.10          | 125.00    | 100            | Vertical | Pass    |
| 4077.990           | 49.54                     | --                          | 39.9                         | -2.45          | 74.0                 | --                   | 54.0                 | 14.10          | 194.00    | 100            | Vertical | Pass    |
| 5241.845           | 74.18                     | --                          | 66.0                         | 0.76           | --                   | --                   | --                   | --             | 29.00     | 100            | Vertical | Pass    |
| 6506.937           | 55.10                     | --                          | 44.7                         | 5.56           | 68.2                 | --                   | --                   | 13.10          | 51.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11ac(HT40) High channel



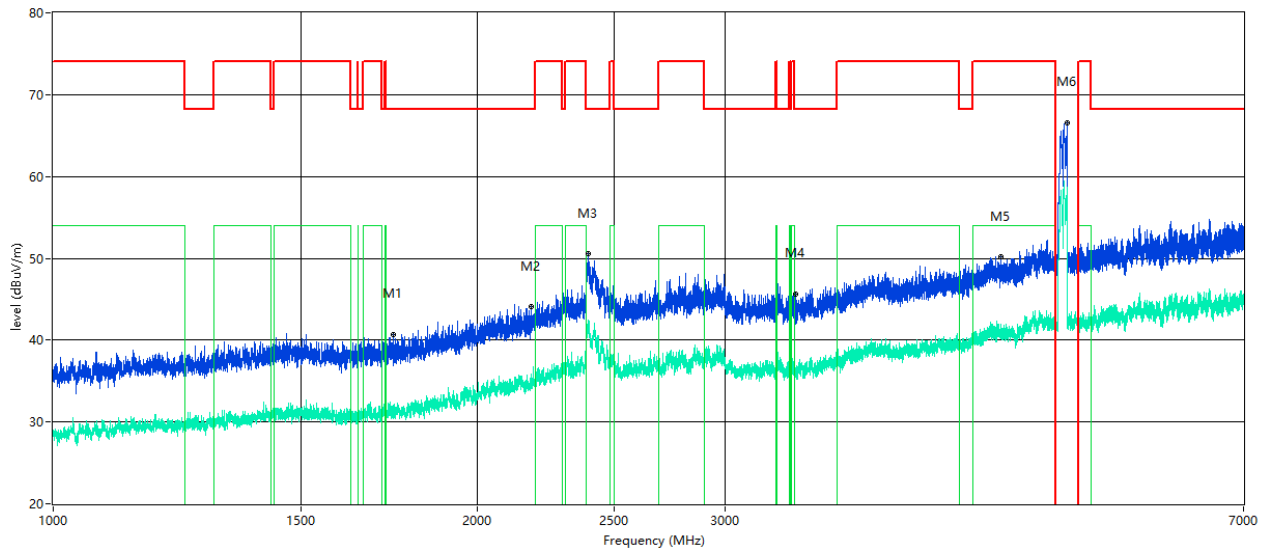
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 2018.123           | 43.40                     | --                          | 34.2                         | -8.04          | 68.2                 | --                   | --                   | 24.80          | 211.70    | 100            | Horizontal | Pass    |
| 2400.075           | 51.05                     | --                          | 42.4                         | -0.08          | 68.2                 | --                   | --                   | 17.15          | 237.70    | 100            | Horizontal | Pass    |
| 3150.731           | 45.91                     | --                          | 37.2                         | -4.85          | 68.2                 | --                   | --                   | 22.29          | 20.00     | 100            | Horizontal | Pass    |
| 4408.699           | 48.88                     | --                          | 39.7                         | -2.04          | 68.2                 | --                   | --                   | 19.32          | 131.70    | 100            | Horizontal | Pass    |
| 5241.470           | 73.57                     | --                          | 66.0                         | 0.73           | --                   | --                   | --                   | --             | 193.90    | 100            | Horizontal | Pass    |
| 6265.467           | 55.26                     | --                          | 45.6                         | 4.41           | 68.2                 | --                   | --                   | 12.94          | 253.20    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11ac(HT80) Low channel



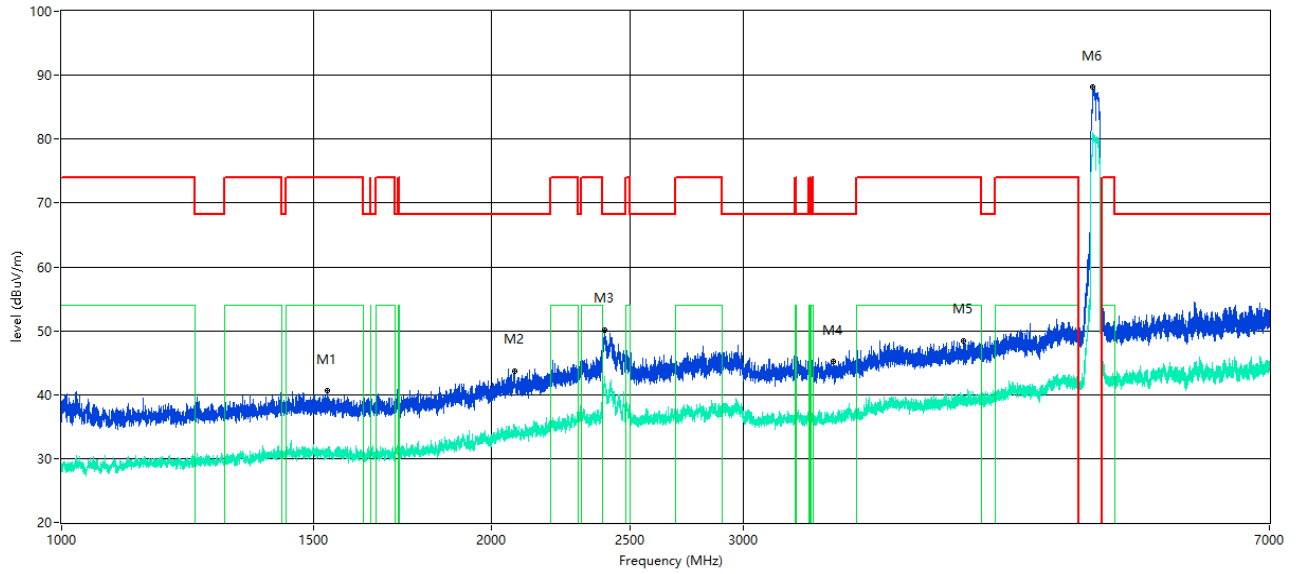
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1896.138           | 42.19                     | --                          | 32.5                         | -9.80          | 68.2                 | --                   | --                   | 26.01          | 92.00     | 100            | Vertical | Pass    |
| 2397.825           | 51.19                     | --                          | 41.8                         | -0.03          | 68.2                 | --                   | --                   | 17.01          | 165.00    | 100            | Vertical | Pass    |
| 2991.751           | 47.33                     | --                          | 38.1                         | -2.73          | 68.2                 | --                   | --                   | 20.87          | 220.00    | 100            | Vertical | Pass    |
| 4155.606           | 49.00                     | --                          | 39.8                         | -2.16          | 74.0                 | --                   | 54.0                 | 14.20          | 105.00    | 100            | Vertical | Pass    |
| 5233.221           | 70.82                     | --                          | 62.7                         | 0.53           | --                   | --                   | --                   | --             | 14.00     | 100            | Vertical | Pass    |
| 6228.221           | 54.08                     | --                          | 43.9                         | 4.04           | 68.2                 | --                   | --                   | 14.12          | 11.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11ac(HT80) Low channel



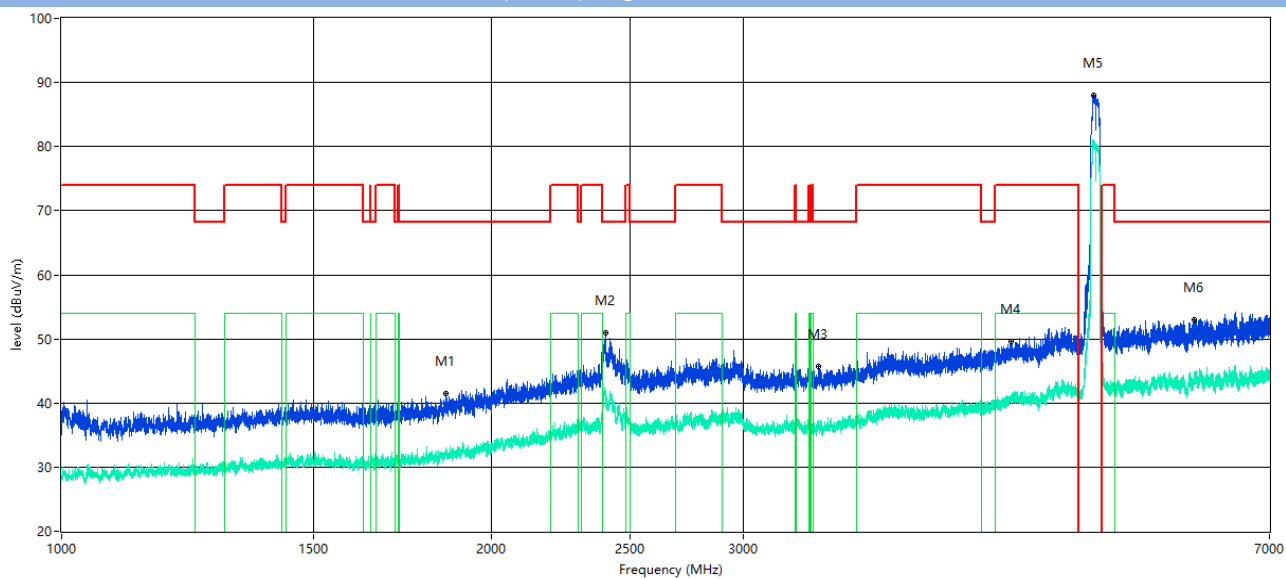
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1742.407           | 40.72                     | --                          | 32.0                         | -11.30         | 68.2                 | --                   | --                   | 27.48          | 102.80    | 100            | Horizontal | Pass    |
| 2183.602           | 44.10                     | --                          | 35.8                         | -6.87          | 68.2                 | --                   | --                   | 24.10          | 353.10    | 100            | Horizontal | Pass    |
| 2398.325           | 50.52                     | --                          | 42.2                         | -0.04          | 68.2                 | --                   | --                   | 17.68          | 74.20     | 100            | Horizontal | Pass    |
| 3365.579           | 45.67                     | --                          | 36.2                         | -5.72          | 68.2                 | --                   | --                   | 22.53          | 63.30     | 100            | Horizontal | Pass    |
| 4706.037           | 50.14                     | --                          | 41.1                         | -0.30          | 74.0                 | --                   | 54.0                 | 12.90          | 156.40    | 100            | Horizontal | Pass    |
| 5246.719           | 66.60                     | --                          | 58.7                         | 1.01           | --                   | --                   | --                   | --             | 275.30    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band I 802.11ac(HT80) High channel



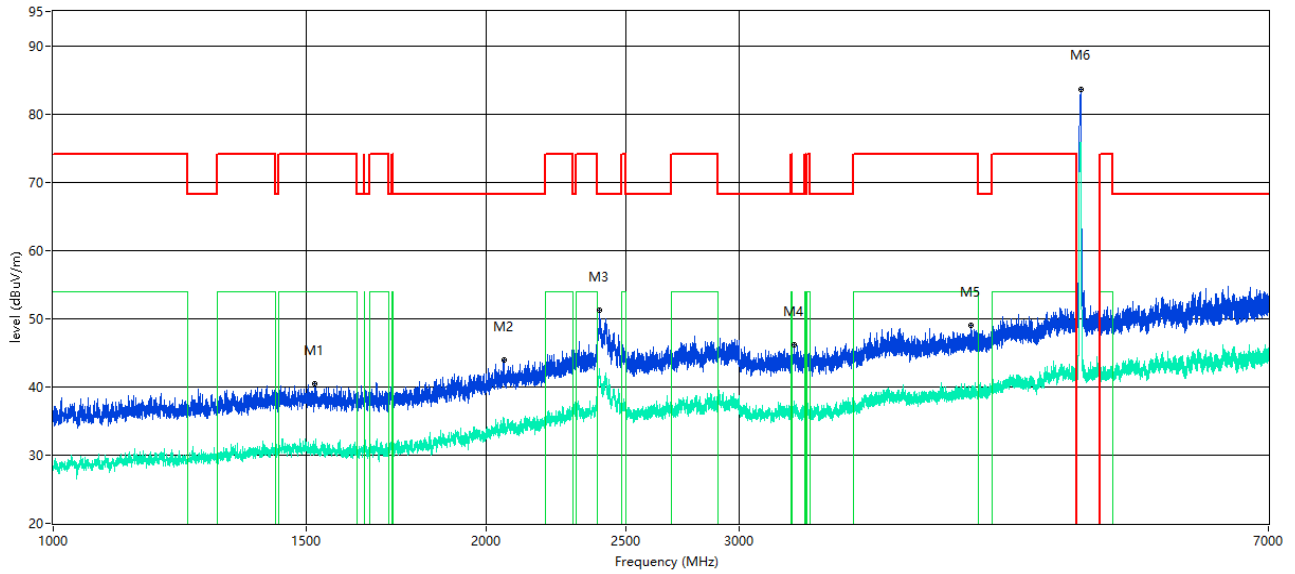
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1535.183           | 40.61                     | --                          | 31.1                         | -11.89         | 74.0                 | --                   | 54.0                 | 22.90          | 105.00    | 100            | Vertical | Pass    |
| 2073.366           | 43.67                     | --                          | 35.0                         | -7.49          | 68.2                 | --                   | --                   | 24.53          | 93.00     | 100            | Vertical | Pass    |
| 2397.825           | 50.14                     | --                          | 42.8                         | -0.03          | 68.2                 | --                   | --                   | 18.06          | 48.00     | 100            | Vertical | Pass    |
| 3468.691           | 45.17                     | --                          | 36.8                         | -4.85          | 68.2                 | --                   | --                   | 23.03          | 102.00    | 100            | Vertical | Pass    |
| 4274.841           | 48.47                     | --                          | 38.9                         | -2.06          | 74.0                 | --                   | 54.0                 | 15.10          | 59.00     | 100            | Vertical | Pass    |
| 5266.592           | 88.12                     | --                          | 80.6                         | 1.54           | --                   | --                   | --                   | --             | 26.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band I 802.11ac(HT80) High channel



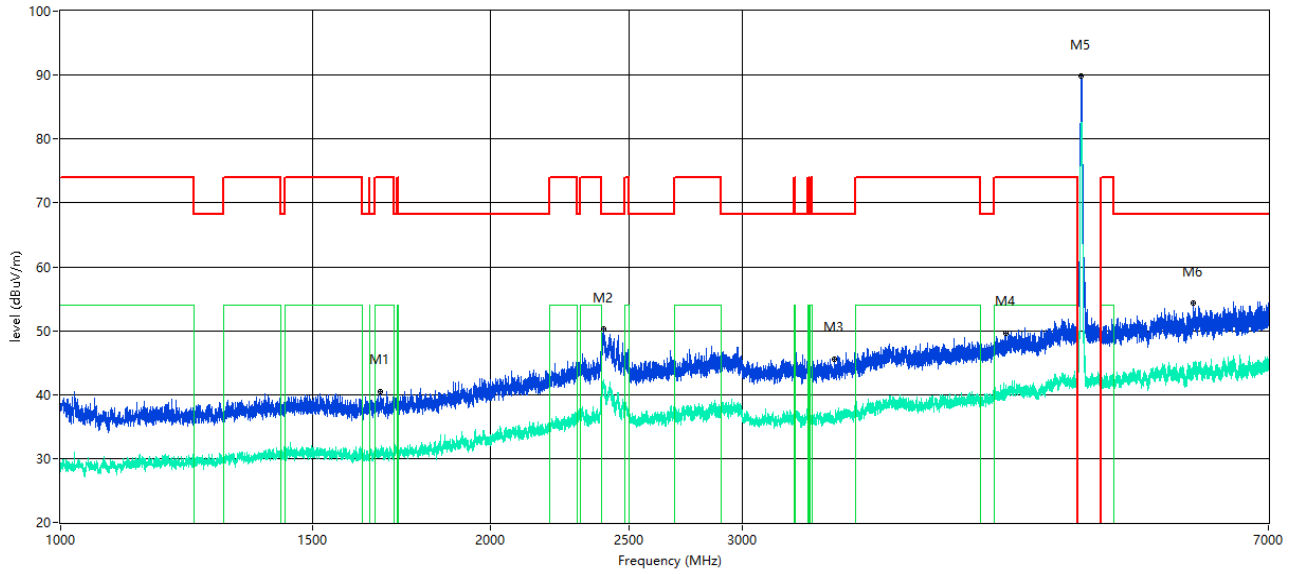
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1857.643           | 41.51                     | --                          | 32.7                         | -9.96          | 68.2                 | --                   | --                   | 26.69          | 86.00     | 100            | Horizontal | Pass    |
| 2400.825           | 50.95                     | --                          | 41.9                         | -0.10          | 68.2                 | --                   | --                   | 17.25          | 38.00     | 100            | Horizontal | Pass    |
| 3387.702           | 45.73                     | --                          | 37.3                         | -5.43          | 68.2                 | --                   | --                   | 22.47          | 150.00    | 100            | Horizontal | Pass    |
| 4619.798           | 49.66                     | --                          | 40.2                         | 0.23           | 74.0                 | --                   | 54.0                 | 13.80          | 48.00     | 100            | Horizontal | Pass    |
| 5275.591           | 88.03                     | --                          | 80.3                         | 1.05           | --                   | --                   | --                   | --             | 164.00    | 100            | Horizontal | Pass    |
| 6204.349           | 53.05                     | --                          | 44.1                         | 4.38           | 68.2                 | --                   | --                   | 15.15          | 23.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11a Low channel



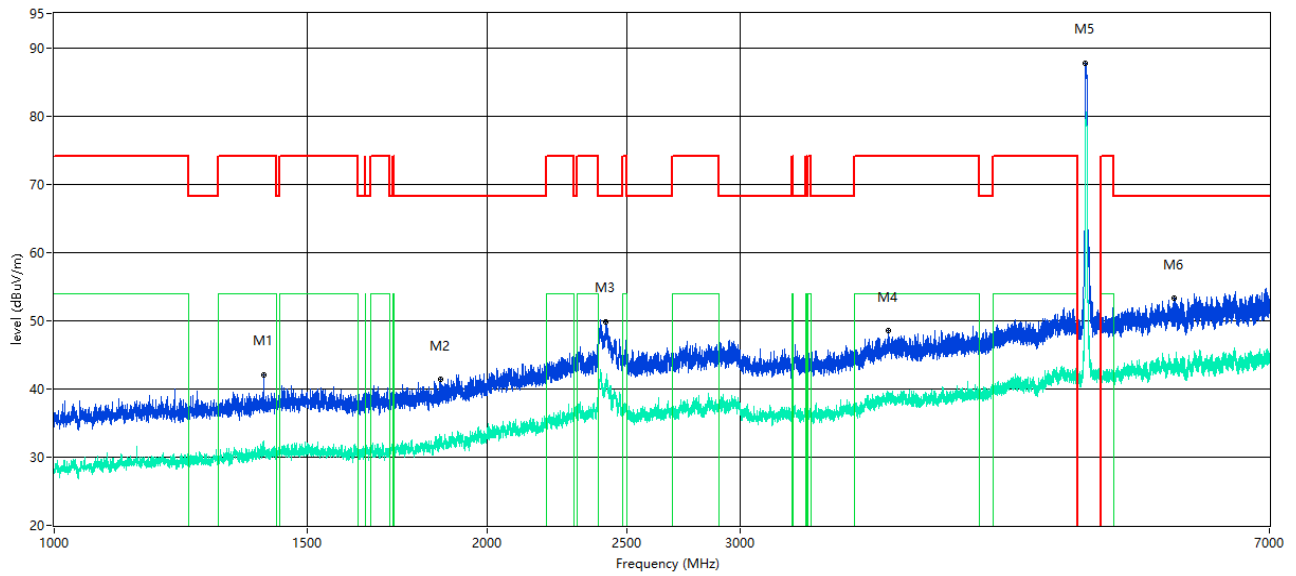
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1520.685           | 40.38                     | --                          | 31.4                         | -11.80         | 74.0                 | --                   | 54.0                 | 22.60          | 101.00    | 100            | Vertical | Pass    |
| 2057.868           | 43.91                     | --                          | 35.4                         | -8.16          | 68.2                 | --                   | --                   | 24.29          | 158.00    | 100            | Vertical | Pass    |
| 2397.075           | 51.19                     | --                          | 42.1                         | 0.01           | 68.2                 | --                   | --                   | 17.01          | 93.00     | 100            | Vertical | Pass    |
| 3277.090           | 46.11                     | --                          | 37.9                         | -4.00          | 68.2                 | --                   | --                   | 22.09          | 212.00    | 100            | Vertical | Pass    |
| 4345.332           | 49.05                     | --                          | 39.3                         | -1.99          | 74.0                 | --                   | 54.0                 | 14.70          | 183.00    | 100            | Vertical | Pass    |
| 5181.477           | 83.64                     | --                          | 75.9                         | 0.44           | --                   | --                   | --                   | --             | 62.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11a Low channel



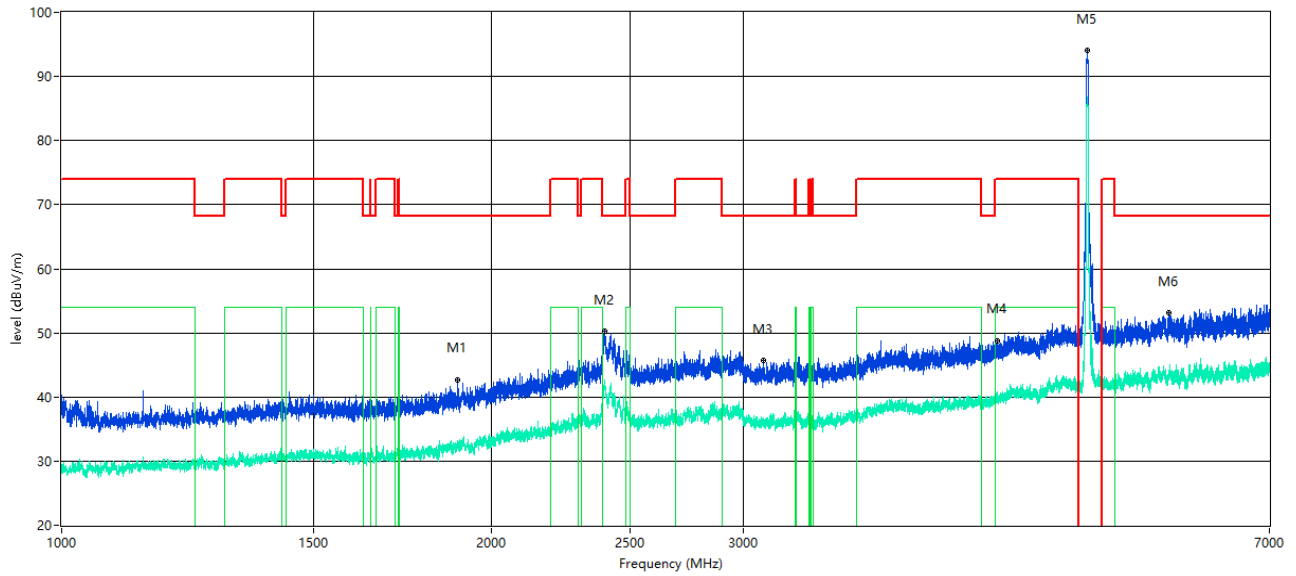
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1673.416           | 40.48                     | --                          | 31.3                         | -11.53         | 74.0                 | --                   | 54.0                 | 22.70          | 185.00    | 100            | Horizontal | Pass    |
| 2396.825           | 50.23                     | --                          | 41.2                         | 0.02           | 68.2                 | --                   | --                   | 17.97          | 132.00    | 100            | Horizontal | Pass    |
| 3479.940           | 45.55                     | --                          | 36.3                         | -5.34          | 68.2                 | --                   | --                   | 22.65          | 213.00    | 100            | Horizontal | Pass    |
| 4581.927           | 49.59                     | --                          | 41.1                         | -0.78          | 74.0                 | --                   | 54.0                 | 12.90          | 12.00     | 100            | Horizontal | Pass    |
| 5180.352           | 89.83                     | --                          | 82.3                         | 0.47           | --                   | --                   | --                   | --             | 65.00     | 100            | Horizontal | Pass    |
| 6204.974           | 54.25                     | --                          | 45.1                         | 4.39           | 68.2                 | --                   | --                   | 13.95          | 2.00      | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11a Middle channel



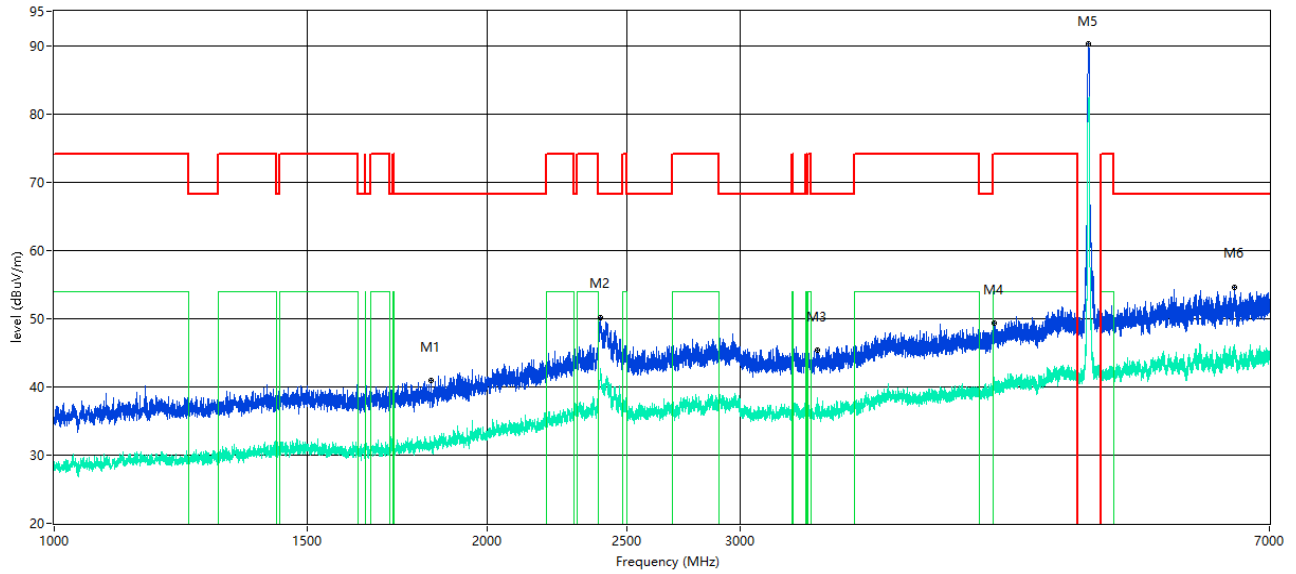
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1399.450           | 42.12                     | --                          | 32.3                         | -11.80         | 74.0                 | --                   | 54.0                 | 21.70          | 63.00     | 100            | Vertical | Pass    |
| 1856.643           | 41.38                     | --                          | 33.0                         | -9.96          | 68.2                 | --                   | --                   | 26.82          | 105.00    | 100            | Vertical | Pass    |
| 2420.322           | 49.83                     | --                          | 41.4                         | -0.78          | 68.2                 | --                   | --                   | 18.37          | 210.00    | 100            | Vertical | Pass    |
| 3805.774           | 48.49                     | --                          | 39.5                         | -2.45          | 74.0                 | --                   | 54.0                 | 14.50          | 55.00     | 100            | Vertical | Pass    |
| 5216.348           | 87.72                     | --                          | 79.3                         | 0.63           | --                   | --                   | --                   | --             | 185.00    | 100            | Vertical | Pass    |
| 6007.499           | 53.32                     | --                          | 43.0                         | 3.02           | 68.2                 | --                   | --                   | 14.88          | 21.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11a Middle channel



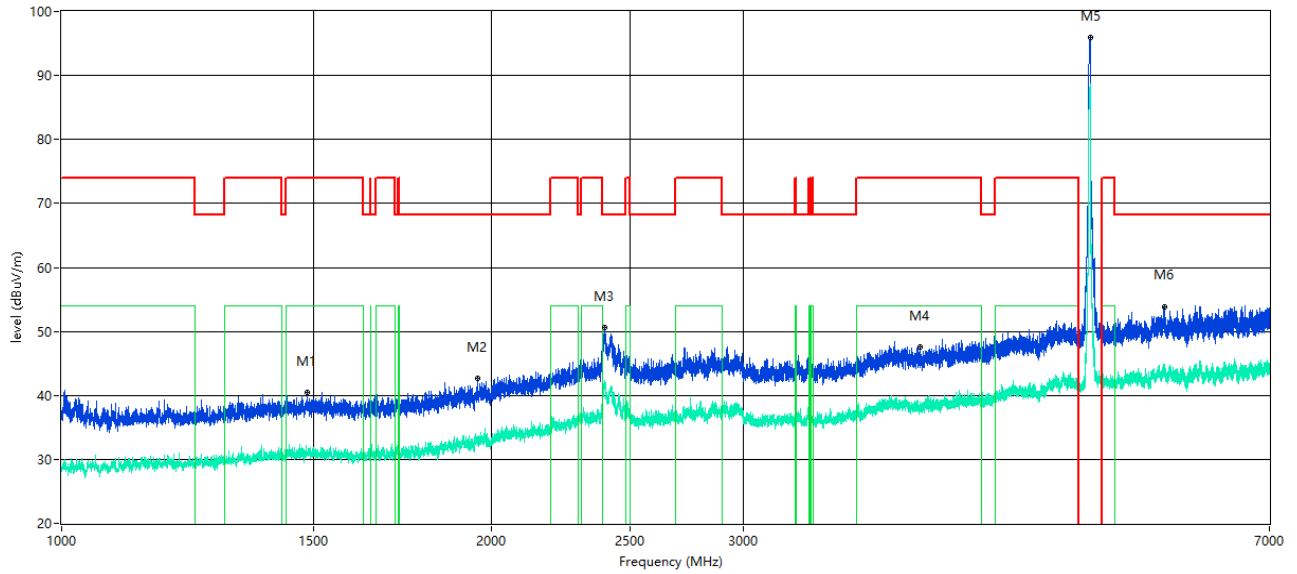
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1893.888           | 42.67                     | --                          | 33.1                         | -9.55          | 68.2                 | --                   | --                   | 25.53          | 102.00    | 100            | Horizontal | Pass    |
| 2400.075           | 50.24                     | --                          | 42.1                         | -0.08          | 68.2                 | --                   | --                   | 17.96          | 16.00     | 100            | Horizontal | Pass    |
| 3096.738           | 45.65                     | --                          | 36.7                         | -4.71          | 68.2                 | --                   | --                   | 22.55          | 78.00     | 100            | Horizontal | Pass    |
| 4519.685           | 48.81                     | --                          | 39.7                         | -1.29          | 74.0                 | --                   | 54.0                 | 14.30          | 225.00    | 100            | Horizontal | Pass    |
| 5223.097           | 94.01                     | --                          | 86.2                         | 0.64           | --                   | --                   | --                   | --             | 162.00    | 100            | Horizontal | Pass    |
| 5957.630           | 53.13                     | --                          | 43.8                         | 3.78           | 68.2                 | --                   | --                   | 15.07          | 13.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11a High channel



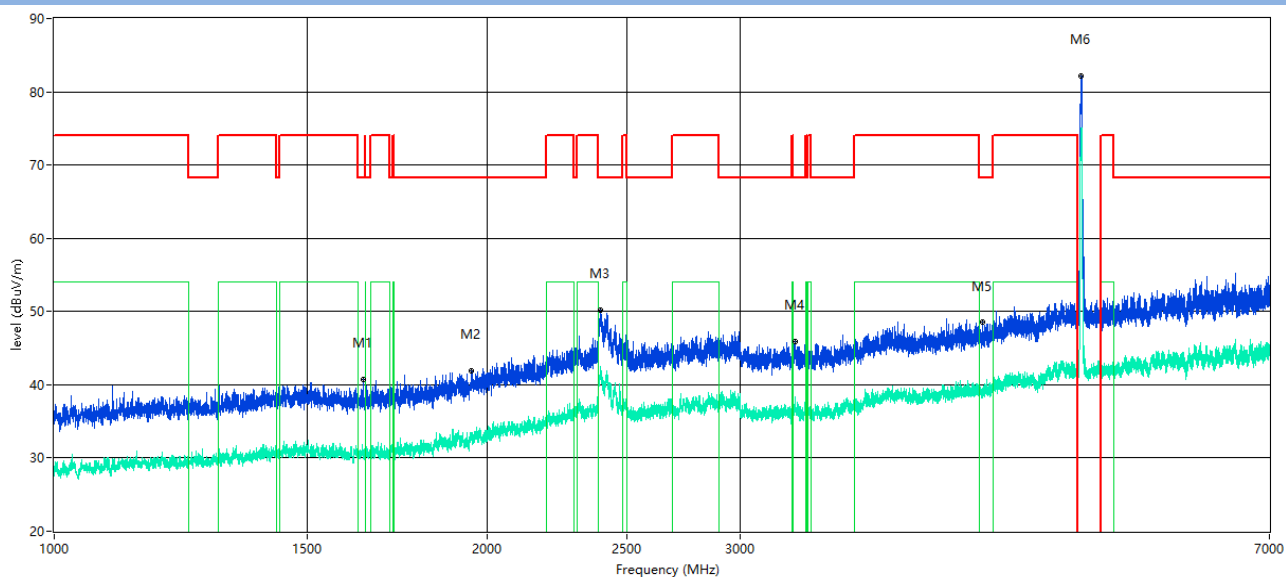
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1828.146           | 40.87                     | --                          | 31.9                         | -10.07         | 68.2                 | --                   | --                   | 27.33          | 113.00    | 100            | Vertical | Pass    |
| 2398.825           | 50.18                     | --                          | 42.6                         | -0.05          | 68.2                 | --                   | --                   | 18.02          | 215.00    | 100            | Vertical | Pass    |
| 3397.075           | 45.33                     | --                          | 38.3                         | -5.33          | 68.2                 | --                   | --                   | 22.87          | 78.00     | 100            | Vertical | Pass    |
| 4506.562           | 49.27                     | --                          | 40.1                         | -1.08          | 74.0                 | --                   | 54.0                 | 13.90          | 105.00    | 100            | Vertical | Pass    |
| 5242.970           | 90.29                     | --                          | 81.9                         | 0.85           | --                   | --                   | --                   | --             | 78.00     | 100            | Vertical | Pass    |
| 6618.048           | 54.51                     | --                          | 45.5                         | 5.52           | 68.2                 | --                   | --                   | 13.69          | 9.00      | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11a High channel



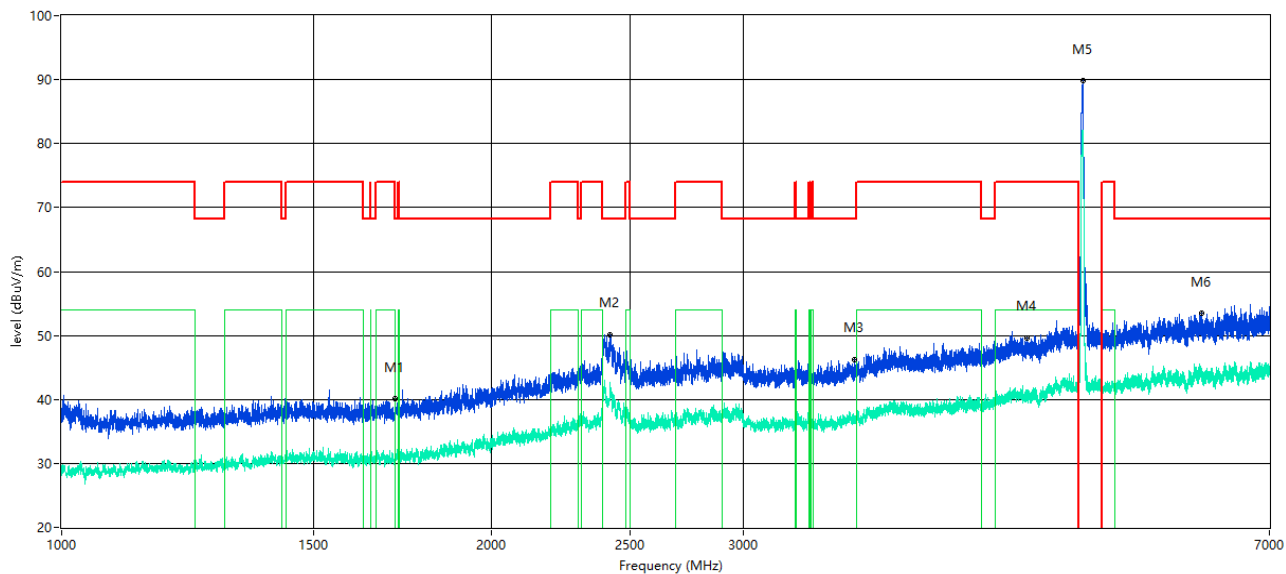
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1485.439           | 40.41                     | --                          | 31.0                         | -11.50         | 74.0                 | --                   | 54.0                 | 23.00          | 48.00     | 100            | Horizontal | Pass    |
| 1955.881           | 42.69                     | --                          | 33.5                         | -9.37          | 68.2                 | --                   | --                   | 25.51          | 161.00    | 100            | Horizontal | Pass    |
| 2396.575           | 50.59                     | --                          | 41.9                         | 0.03           | 68.2                 | --                   | --                   | 17.61          | 55.00     | 100            | Horizontal | Pass    |
| 3984.627           | 47.54                     | --                          | 38.2                         | -3.04          | 74.0                 | --                   | 54.0                 | 15.80          | 28.00     | 100            | Horizontal | Pass    |
| 5243.720           | 95.98                     | --                          | 88.0                         | 0.90           | --                   | --                   | --                   | --             | 185.00    | 100            | Horizontal | Pass    |
| 5912.261           | 53.86                     | --                          | 44.9                         | 3.23           | 68.2                 | --                   | --                   | 14.34          | 11.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11n(HT20) Low channel



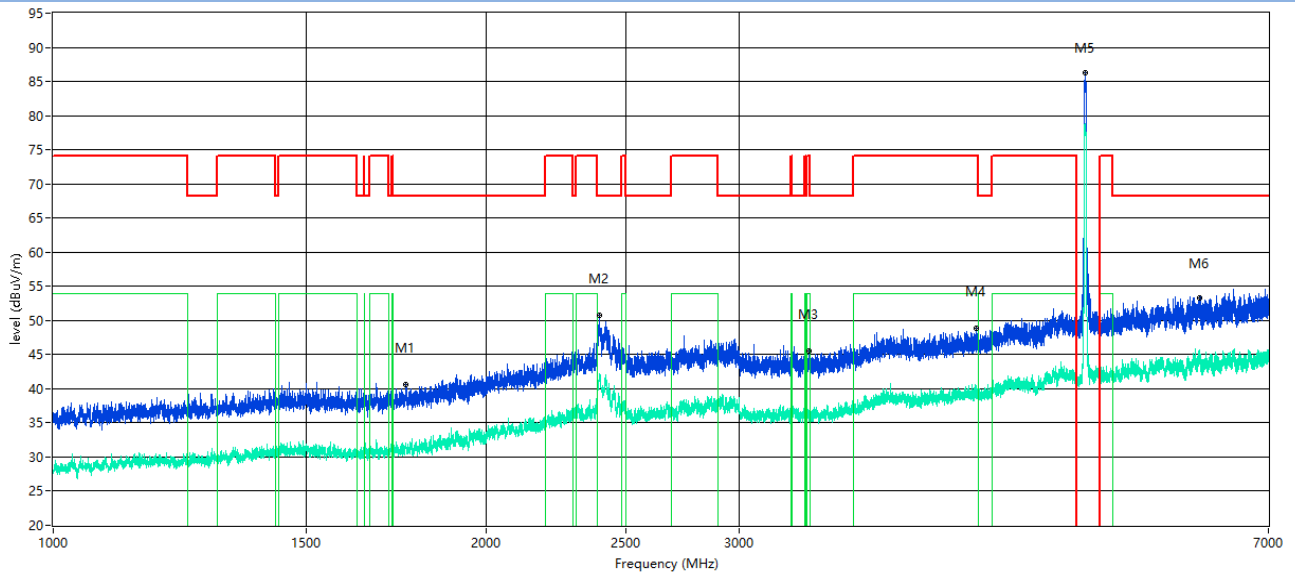
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1639.170           | 40.76                     | --                          | 30.8                         | -11.75         | 68.2                 | --                   | --                   | 27.44          | 102.00    | 100            | Vertical | Pass    |
| 1949.131           | 41.94                     | --                          | 33.0                         | -9.05          | 68.2                 | --                   | --                   | 26.26          | 58.00     | 100            | Vertical | Pass    |
| 2399.825           | 50.19                     | --                          | 42.5                         | -0.08          | 68.2                 | --                   | --                   | 18.01          | 91.00     | 100            | Vertical | Pass    |
| 3277.465           | 45.93                     | --                          | 36.9                         | -4.07          | 68.2                 | --                   | --                   | 22.27          | 210.00    | 100            | Vertical | Pass    |
| 4419.573           | 48.49                     | --                          | 39.2                         | -2.04          | 68.2                 | --                   | --                   | 19.71          | 331.00    | 100            | Vertical | Pass    |
| 5178.478           | 82.20                     | --                          | 74.9                         | 0.46           | --                   | --                   | --                   | --             | 11.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11n(HT20) Low channel



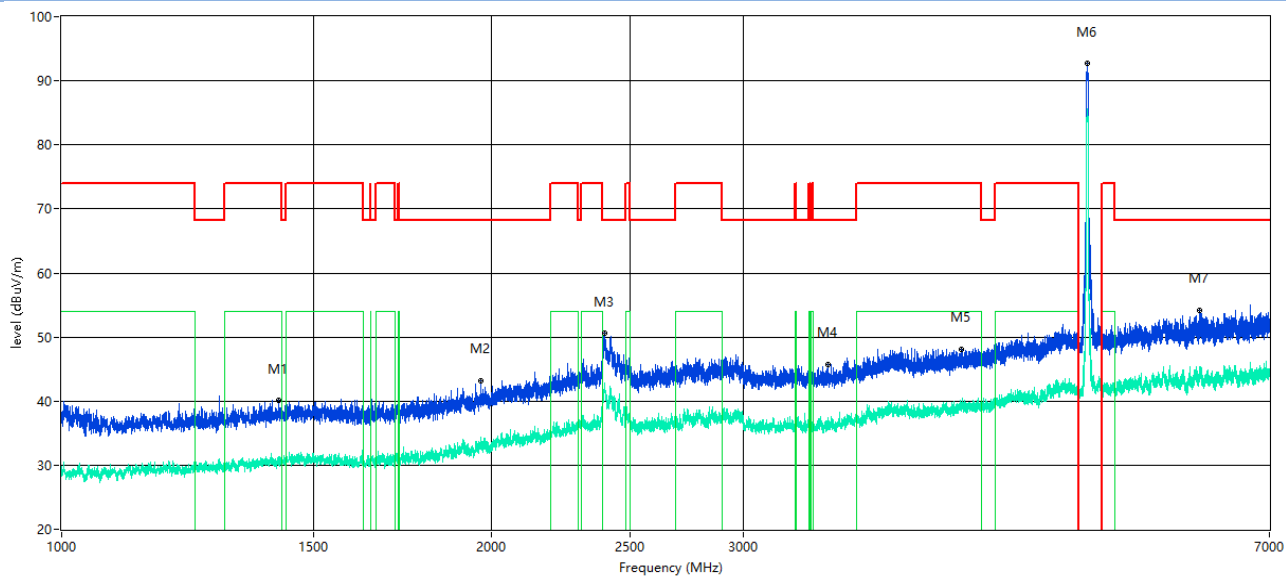
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1712.411           | 40.07                     | --                          | 31.8                         | -11.63         | 68.2                 | --                   | --                   | 28.13          | 108.00    | 100            | Horizontal | Pass    |
| 2420.822           | 50.12                     | --                          | 42.6                         | -0.79          | 68.2                 | --                   | --                   | 18.08          | 315.00    | 100            | Horizontal | Pass    |
| 3587.927           | 46.26                     | --                          | 37.1                         | -4.61          | 68.2                 | --                   | --                   | 21.94          | 76.00     | 100            | Horizontal | Pass    |
| 4734.158           | 49.67                     | --                          | 40.7                         | -0.25          | 74.0                 | --                   | 54.0                 | 13.30          | 28.00     | 100            | Horizontal | Pass    |
| 5183.727           | 89.78                     | --                          | 81.3                         | 0.38           | --                   | --                   | --                   | --             | 105.00    | 100            | Horizontal | Pass    |
| 6273.716           | 53.41                     | --                          | 44.4                         | 4.65           | 68.2                 | --                   | --                   | 14.79          | 16.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11n(HT20) Middle channel



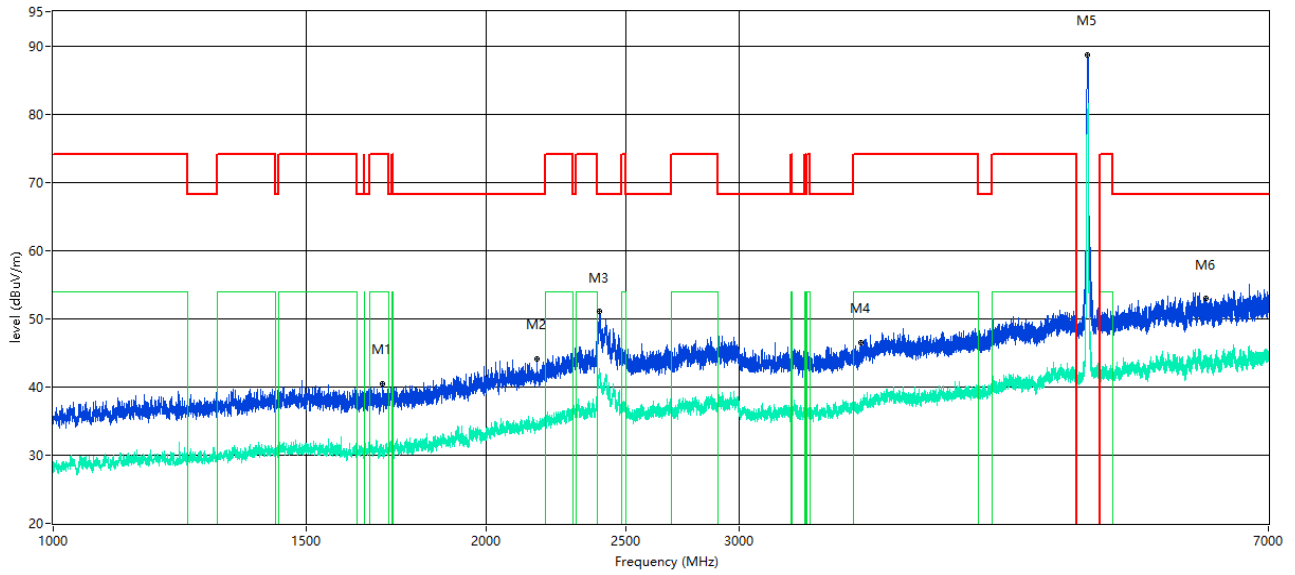
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1757.905           | 40.61                     | --                          | 31.9                         | -10.74         | 68.2                 | --                   | --                   | 27.59          | 101.00    | 100            | Vertical | Pass    |
| 2397.825           | 50.80                     | --                          | 42.1                         | -0.03          | 68.2                 | --                   | --                   | 17.40          | 51.00     | 100            | Vertical | Pass    |
| 3355.081           | 45.51                     | --                          | 36.2                         | -5.59          | 74.0                 | --                   | 54.0                 | 17.80          | 315.00    | 100            | Vertical | Pass    |
| 4381.702           | 48.89                     | --                          | 39.1                         | -1.86          | 74.0                 | --                   | 54.0                 | 14.90          | 223.00    | 100            | Vertical | Pass    |
| 5221.972           | 86.29                     | --                          | 78.8                         | 0.65           | --                   | --                   | --                   | --             | 88.00     | 100            | Vertical | Pass    |
| 6266.217           | 53.35                     | --                          | 44.3                         | 4.37           | 68.2                 | --                   | --                   | 14.85          | 11.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11n(HT20) Middle channel



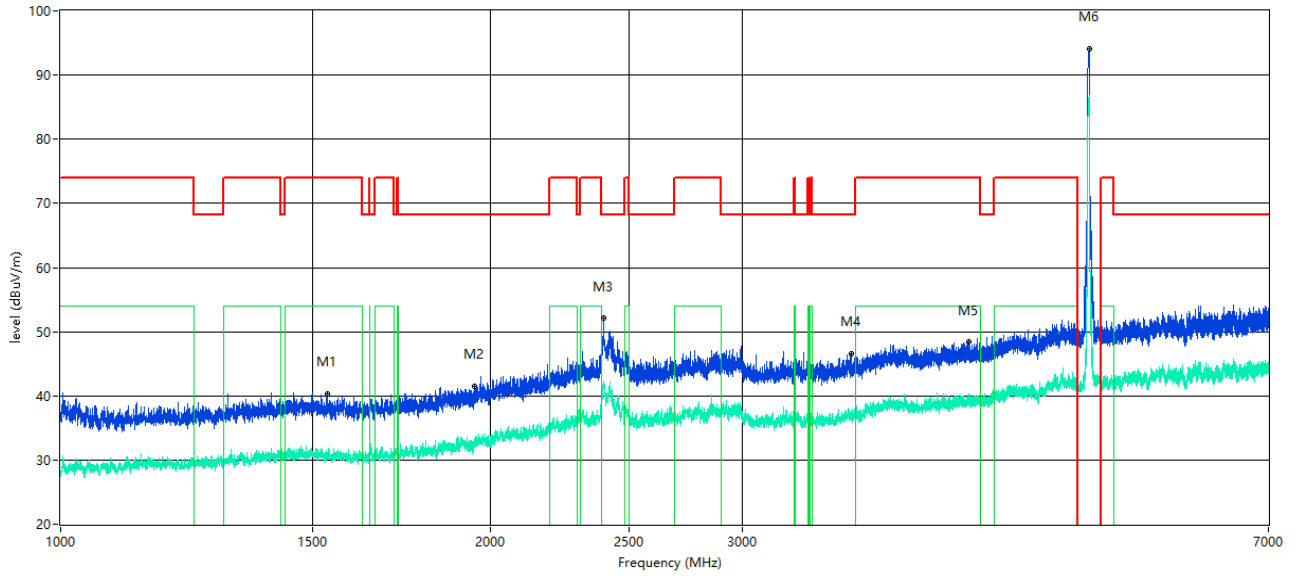
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1418.948           | 40.11                     | --                          | 30.7                         | -11.74         | 74.0                 | --                   | 54.0                 | 23.30          | 98.00     | 100            | Horizontal | Pass    |
| 1965.129           | 43.20                     | --                          | 33.3                         | -8.96          | 68.2                 | --                   | --                   | 25.00          | 113.00    | 100            | Horizontal | Pass    |
| 2398.075           | 50.60                     | --                          | 42.5                         | -0.03          | 68.2                 | --                   | --                   | 17.60          | 165.00    | 100            | Horizontal | Pass    |
| 3436.445           | 45.70                     | --                          | 35.8                         | -4.91          | 68.2                 | --                   | --                   | 22.50          | 48.00     | 100            | Horizontal | Pass    |
| 4263.592           | 48.07                     | --                          | 39.3                         | -1.80          | 74.0                 | --                   | 54.0                 | 14.70          | 381.00    | 100            | Horizontal | Pass    |
| 5224.222           | 92.71                     | --                          | 84.8                         | 0.64           | --                   | --                   | --                   | --             | 82.00     | 100            | Horizontal | Pass    |
| 6259.343           | 54.24                     | --                          | 45.1                         | 4.64           | 68.2                 | --                   | --                   | 13.96          | 6.00      | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11n(HT20) High channel



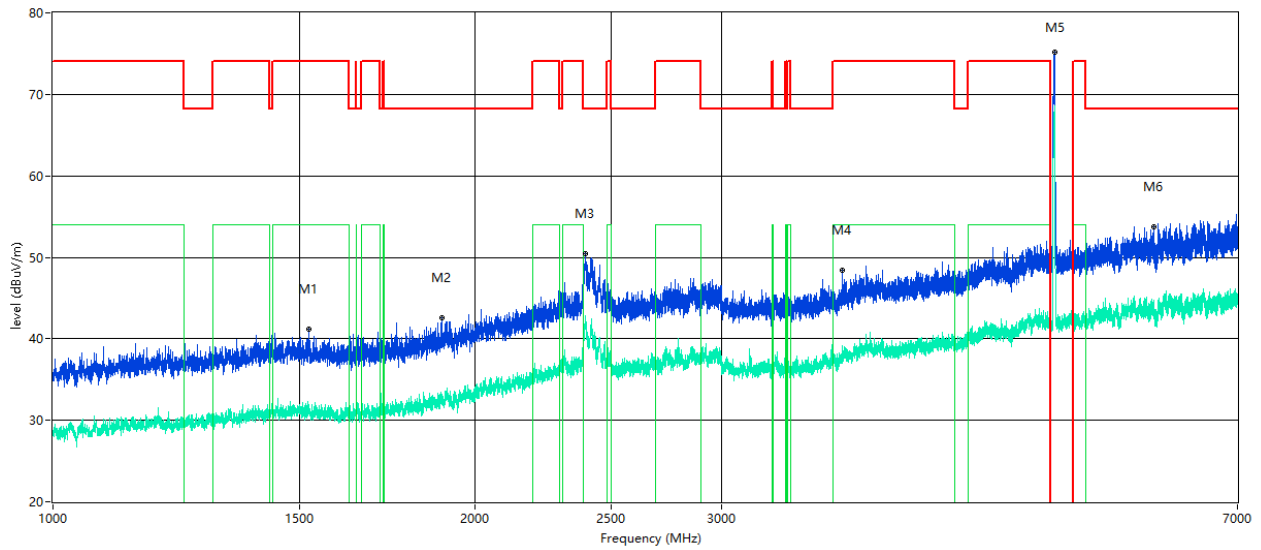
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1695.413           | 40.45                     | --                          | 30.8                         | -11.97         | 74.0                 | --                   | 54.0                 | 23.20          | 328.00    | 100            | Vertical | Pass    |
| 2169.104           | 44.14                     | --                          | 34.7                         | -7.28          | 68.2                 | --                   | --                   | 24.06          | 41.00     | 100            | Vertical | Pass    |
| 2397.575           | 51.04                     | --                          | 42.7                         | -0.02          | 68.2                 | --                   | --                   | 17.16          | 105.00    | 100            | Vertical | Pass    |
| 3643.420           | 46.48                     | --                          | 37.6                         | -3.86          | 74.0                 | --                   | 54.0                 | 16.40          | 81.00     | 100            | Vertical | Pass    |
| 5242.595           | 88.66                     | --                          | 80.7                         | 0.82           | --                   | --                   | --                   | --             | 163.00    | 100            | Vertical | Pass    |
| 6332.458           | 52.92                     | --                          | 43.6                         | 4.75           | 68.2                 | --                   | --                   | 15.28          | 12.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11n(HT20) High channel



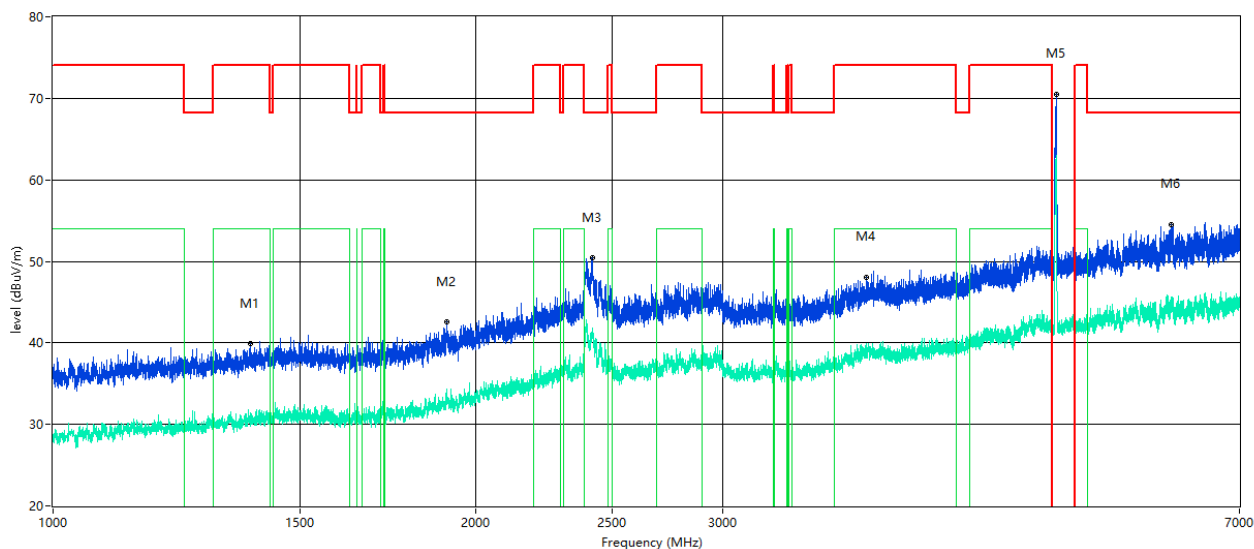
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1537.183           | 40.35                     | --                          | 30.9                         | -11.77         | 74.0                 | --                   | 54.0                 | 23.10          | 138.00    | 100            | Horizontal | Pass    |
| 1946.632           | 41.56                     | --                          | 32.9                         | -9.40          | 68.2                 | --                   | --                   | 26.64          | 130.00    | 100            | Horizontal | Pass    |
| 2398.075           | 52.10                     | --                          | 42.1                         | -0.03          | 68.2                 | --                   | --                   | 16.10          | 161.00    | 100            | Horizontal | Pass    |
| 3572.553           | 46.59                     | --                          | 36.5                         | -4.71          | 68.2                 | --                   | --                   | 21.61          | 62.00     | 100            | Horizontal | Pass    |
| 4323.210           | 48.37                     | --                          | 40.3                         | -2.05          | 74.0                 | --                   | 54.0                 | 13.70          | 222.00    | 100            | Horizontal | Pass    |
| 5242.970           | 94.09                     | --                          | 86.3                         | 0.85           | --                   | --                   | --                   | --             | 182.00    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11ac(HT20) Low channel



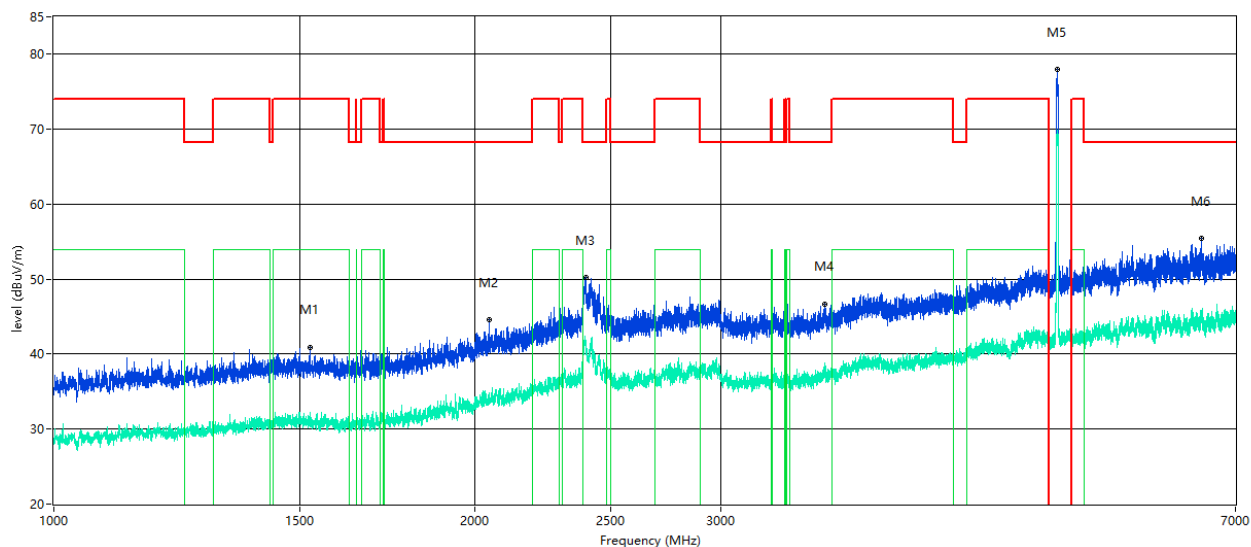
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1522.185           | 41.23                     | --                          | 31.9                         | -11.68         | 74.0                 | --                   | 54.0                 | 22.10          | 35.00     | 100            | Vertical | Pass    |
| 1893.138           | 42.56                     | --                          | 33.2                         | -9.47          | 68.2                 | --                   | --                   | 25.64          | 102.00    | 100            | Vertical | Pass    |
| 2398.575           | 50.39                     | --                          | 42.9                         | -0.05          | 68.2                 | --                   | --                   | 17.81          | 227.00    | 100            | Vertical | Pass    |
| 3659.168           | 48.41                     | --                          | 39.2                         | -3.88          | 74.0                 | --                   | 54.0                 | 14.80          | 108.00    | 100            | Vertical | Pass    |
| 5184.477           | 75.22                     | --                          | 68.1                         | 0.36           | --                   | --                   | --                   | --             | 13.00     | 100            | Vertical | Pass    |
| 6098.238           | 53.70                     | --                          | 44.7                         | 4.07           | 68.2                 | --                   | --                   | 14.50          | 9.00      | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11ac(HT20) Low channel



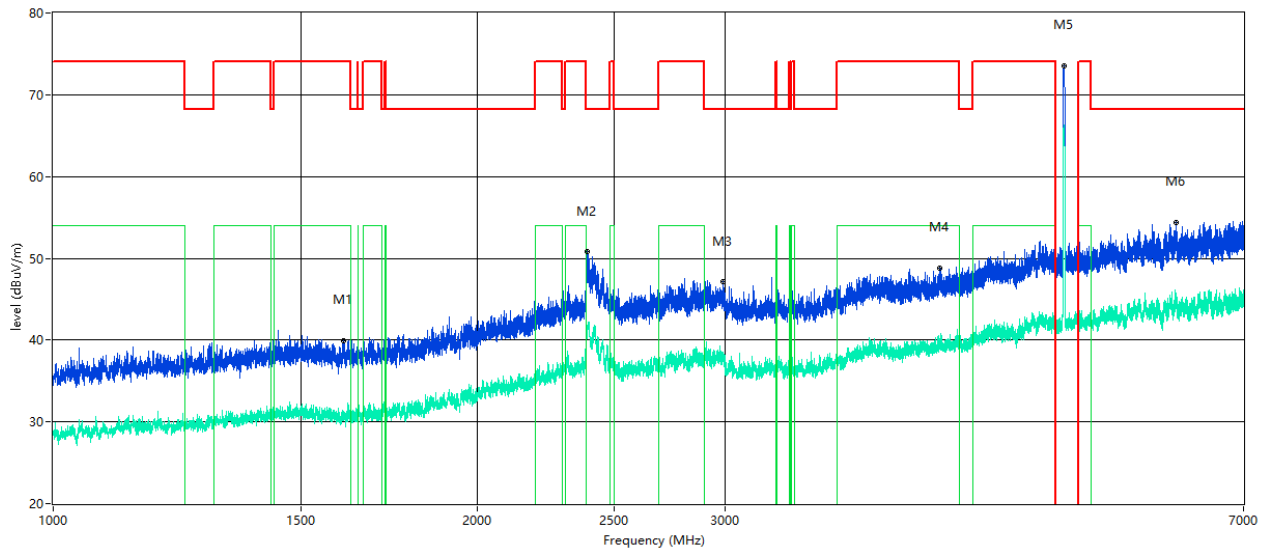
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1382.202           | 39.91                     | --                          | 31.3                         | -12.08         | 74.0                 | --                   | 54.0                 | 22.70          | 161.60    | 100            | Horizontal | Pass    |
| 1908.136           | 42.57                     | --                          | 33.1                         | -8.75          | 68.2                 | --                   | --                   | 25.63          | 280.50    | 100            | Horizontal | Pass    |
| 2424.322           | 50.40                     | --                          | 41.8                         | -0.92          | 68.2                 | --                   | --                   | 17.80          | 192.50    | 100            | Horizontal | Pass    |
| 3793.026           | 48.09                     | --                          | 38.7                         | -2.78          | 74.0                 | --                   | 54.0                 | 15.30          | 348.70    | 100            | Horizontal | Pass    |
| 5183.727           | 70.45                     | --                          | 63.0                         | 0.38           | --                   | --                   | --                   | --             | 360.00    | 100            | Horizontal | Pass    |
| 6261.967           | 54.46                     | --                          | 45.1                         | 4.56           | 68.2                 | --                   | --                   | 13.74          | 360.00    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11ac(HT20) Middle channel



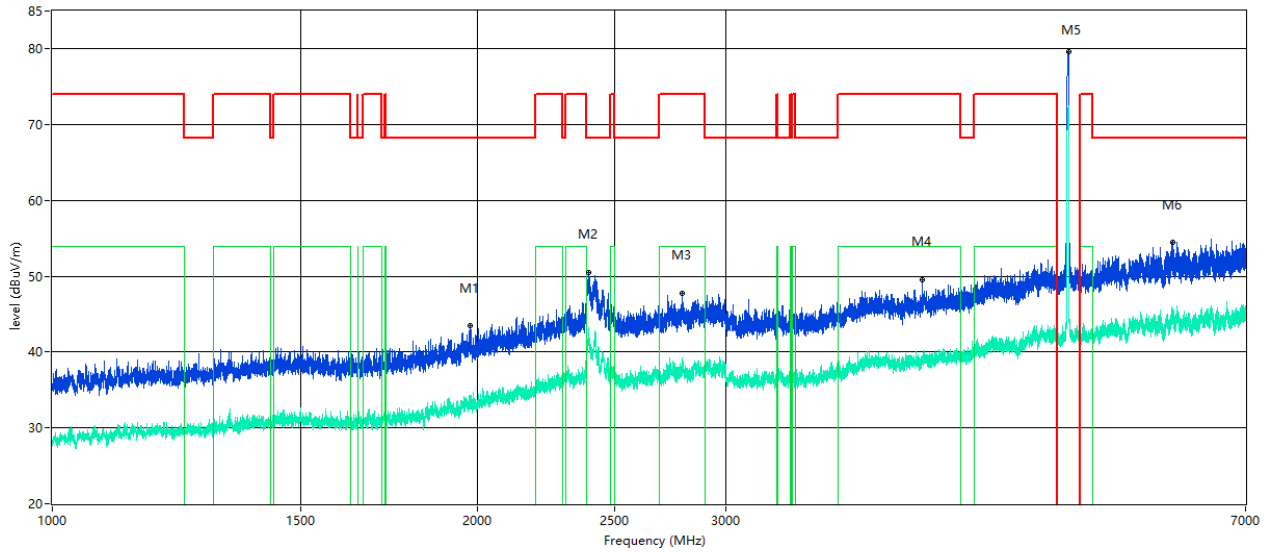
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1524.184           | 40.91                     | --                          | 32.2                         | -11.66         | 74.0                 | --                   | 54.0                 | 21.80          | 89.00     | 100            | Vertical | Pass    |
| 2048.619           | 44.54                     | --                          | 34.6                         | -7.85          | 68.2                 | --                   | --                   | 23.66          | 101.00    | 100            | Vertical | Pass    |
| 2400.575           | 50.17                     | --                          | 41.5                         | -0.10          | 68.2                 | --                   | --                   | 18.03          | 231.00    | 100            | Vertical | Pass    |
| 3557.930           | 46.60                     | --                          | 37.7                         | -4.09          | 68.2                 | --                   | --                   | 21.60          | 66.00     | 100            | Vertical | Pass    |
| 5223.847           | 77.95                     | --                          | 69.8                         | 0.64           | --                   | --                   | --                   | --             | 47.00     | 100            | Vertical | Pass    |
| 6622.422           | 55.45                     | --                          | 45.7                         | 5.25           | 68.2                 | --                   | --                   | 12.75          | 12.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11ac(HT20) Middle channel



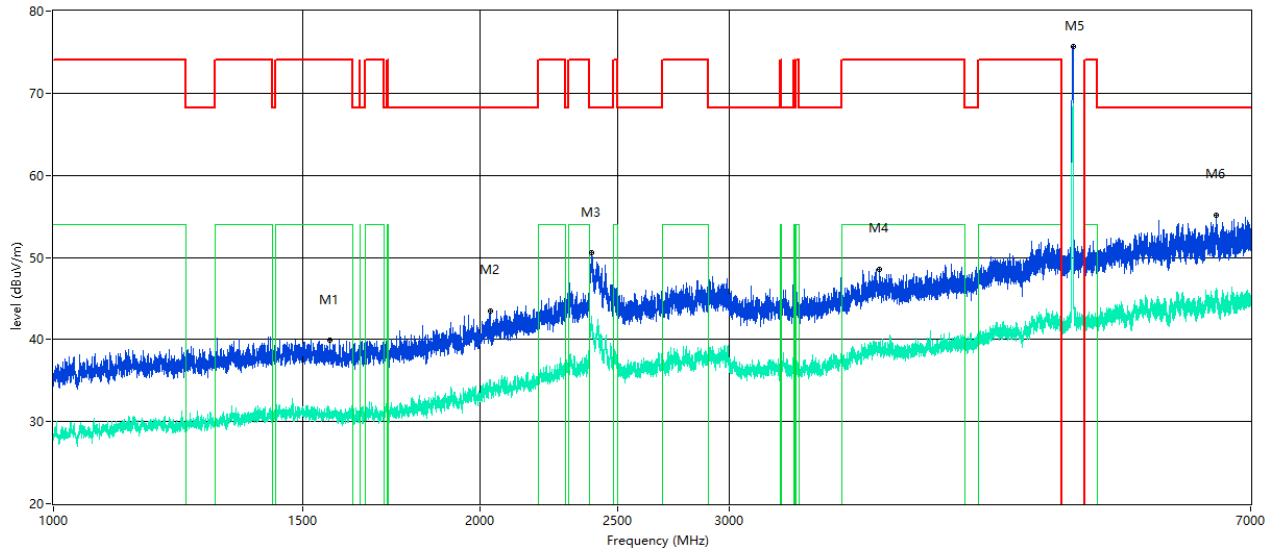
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1606.924           | 39.96                     | --                          | 31.3                         | -11.89         | 74.0                 | --                   | 54.0                 | 22.70          | 75.00     | 100            | Horizontal | Pass    |
| 2395.826           | 50.77                     | --                          | 41.8                         | 0.07           | 68.2                 | --                   | --                   | 17.43          | 67.00     | 100            | Horizontal | Pass    |
| 2987.502           | 47.17                     | --                          | 38.5                         | -3.03          | 68.2                 | --                   | --                   | 21.03          | 285.00    | 100            | Horizontal | Pass    |
| 4260.592           | 48.81                     | --                          | 39.9                         | -1.76          | 74.0                 | --                   | 54.0                 | 14.10          | 27.00     | 100            | Horizontal | Pass    |
| 5218.223           | 73.58                     | --                          | 66.1                         | 0.65           | --                   | --                   | --                   | --             | 185.00    | 100            | Horizontal | Pass    |
| 6269.216           | 54.41                     | --                          | 44.6                         | 4.26           | 68.2                 | --                   | --                   | 13.79          | 5.00      | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11ac(HT20) High channel



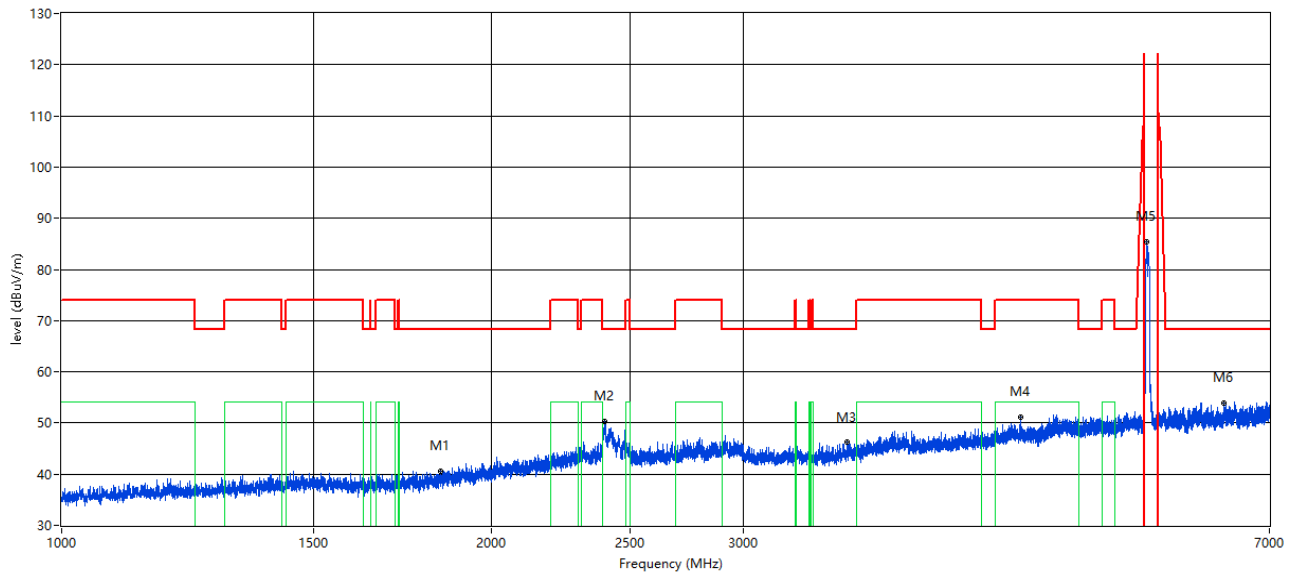
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1978.128           | 43.53                     | --                          | 33.6                         | -8.49          | 68.2                 | --                   | --                   | 24.67          | 103.00    | 100            | Vertical | Pass    |
| 2397.825           | 50.55                     | --                          | 42.8                         | -0.03          | 68.2                 | --                   | --                   | 17.65          | 89.00     | 100            | Vertical | Pass    |
| 2794.026           | 47.73                     | --                          | 39.2                         | -2.92          | 74.0                 | --                   | 54.0                 | 14.80          | 162.00    | 100            | Vertical | Pass    |
| 4130.859           | 49.56                     | --                          | 38.9                         | -2.33          | 74.0                 | --                   | 54.0                 | 15.10          | 18.00     | 100            | Vertical | Pass    |
| 5244.094           | 79.66                     | --                          | 71.3                         | 0.93           | --                   | --                   | --                   | --             | 138.00    | 100            | Vertical | Pass    |
| 6220.972           | 54.50                     | --                          | 44.9                         | 4.59           | 68.2                 | --                   | --                   | 13.70          | 14.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11ac(HT20) High channel



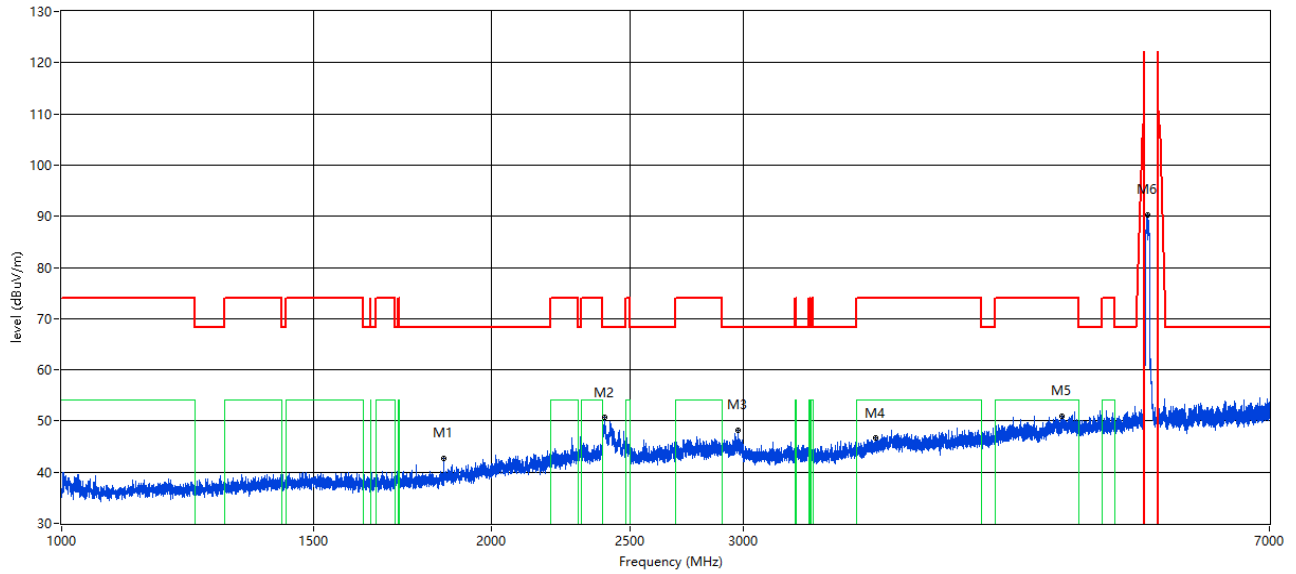
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1566.429           | 39.91                     | --                          | 31.2                         | -11.77         | 74.0                 | --                   | 54.0                 | 22.80          | 218.00    | 100            | Horizontal | Pass    |
| 2033.871           | 43.53                     | --                          | 35.1                         | -7.81          | 68.2                 | --                   | --                   | 24.67          | 78.20     | 100            | Horizontal | Pass    |
| 2398.825           | 50.55                     | --                          | 42.2                         | -0.05          | 68.2                 | --                   | --                   | 17.65          | 334.10    | 100            | Horizontal | Pass    |
| 3826.772           | 48.59                     | --                          | 39.4                         | -2.90          | 74.0                 | --                   | 54.0                 | 14.60          | 359.20    | 100            | Horizontal | Pass    |
| 5244.844           | 75.75                     | --                          | 68.2                         | 0.99           | --                   | --                   | --                   | --             | 4.00      | 100            | Horizontal | Pass    |
| 6617.548           | 55.20                     | --                          | 46.0                         | 5.49           | 68.2                 | --                   | --                   | 13.00          | 13.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11n(HT40) Low channel



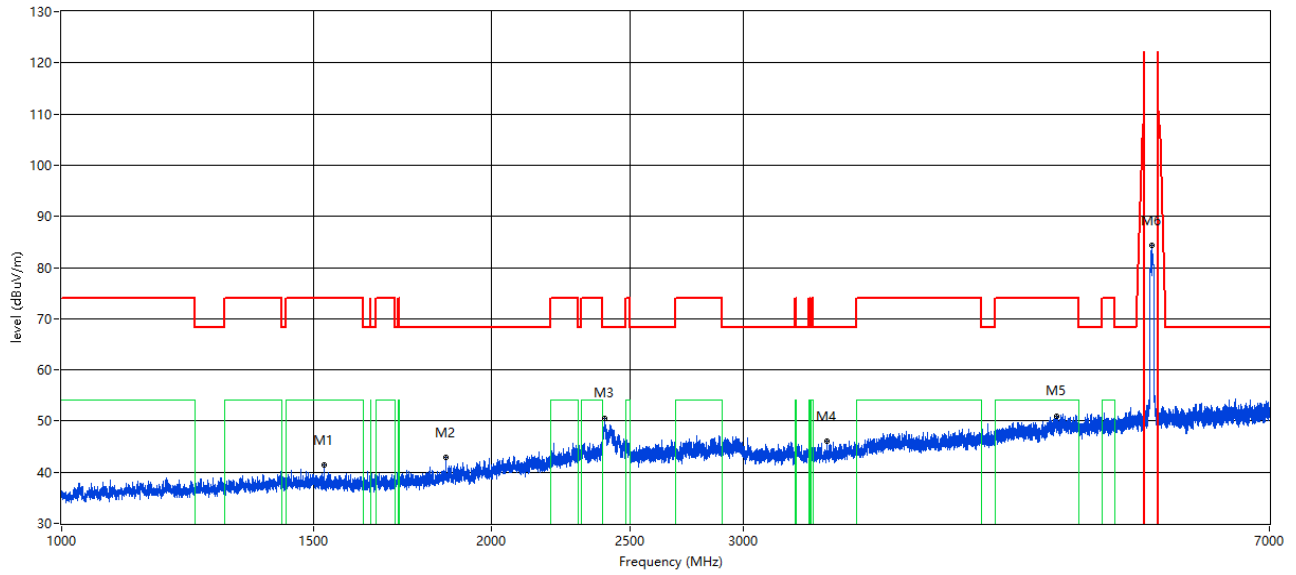
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1841.895           | 40.59                     | --                          | --                           | -9.87          | 68.2                 | --                   | --                   | 27.61          | 185.00    | 100            | Vertical | Pass    |
| 2397.575           | 50.39                     | --                          | --                           | -0.02          | 68.2                 | --                   | --                   | 17.81          | 29.00     | 100            | Vertical | Pass    |
| 3546.682           | 46.21                     | --                          | --                           | -4.26          | 68.2                 | --                   | --                   | 21.99          | 310.00    | 100            | Vertical | Pass    |
| 4687.664           | 51.14                     | --                          | --                           | -0.15          | 74.0                 | --                   | 54.0                 | 2.86           | 3.00      | 100            | Vertical | Pass    |
| 5743.907           | 85.43                     | --                          | --                           | 1.95           | --                   | --                   | --                   | --             | 185.00    | 100            | Vertical | Pass    |
| 6503.312           | 53.82                     | --                          | --                           | 5.15           | 68.2                 | --                   | --                   | 14.38          | 63.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11n(HT40) Low channel



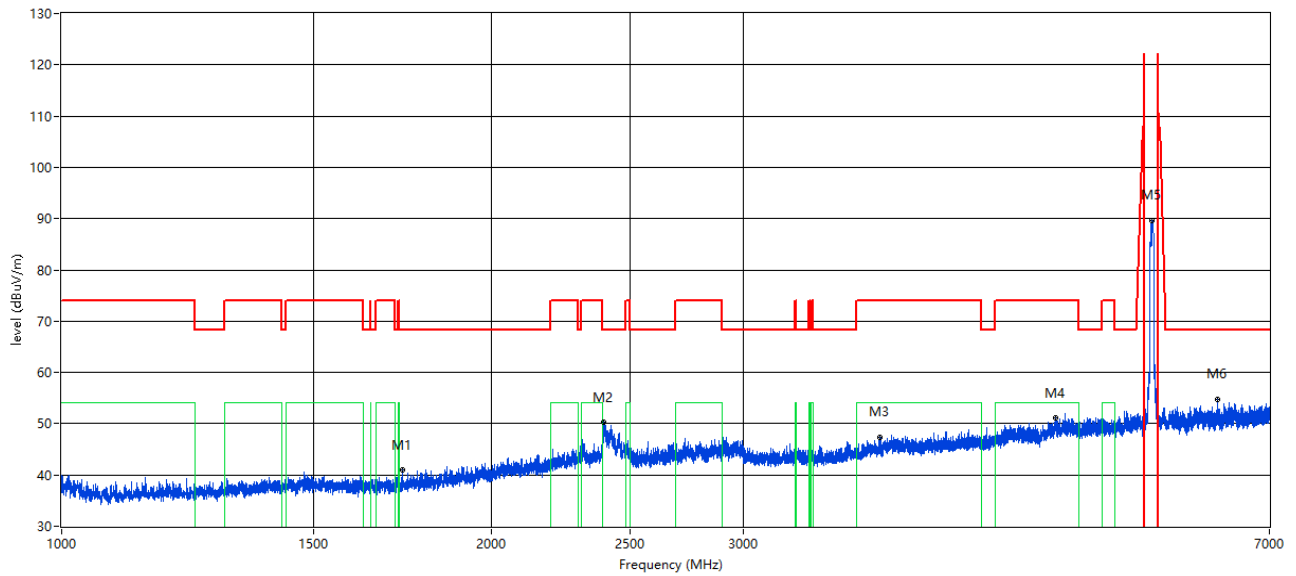
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1851.144           | 42.78                     | --                          | --                           | -10.30         | 68.2                 | --                   | --                   | 25.42          | 48.00     | 100            | Horizontal | Pass    |
| 2397.325           | 50.76                     | --                          | --                           | -0.01          | 68.2                 | --                   | --                   | 17.44          | 104.00    | 100            | Horizontal | Pass    |
| 2974.003           | 48.24                     | --                          | --                           | -3.09          | 68.2                 | --                   | --                   | 19.96          | 31.00     | 100            | Horizontal | Pass    |
| 3709.411           | 46.65                     | --                          | --                           | -3.76          | 74.0                 | --                   | 54.0                 | 7.35           | 185.00    | 100            | Horizontal | Pass    |
| 5014.998           | 50.95                     | --                          | --                           | 0.71           | 74.0                 | --                   | 54.0                 | 3.05           | 121.00    | 100            | Horizontal | Pass    |
| 5752.906           | 90.25                     | --                          | --                           | 1.79           | --                   | --                   | --                   | --             | 12.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11n(HT40) High channel



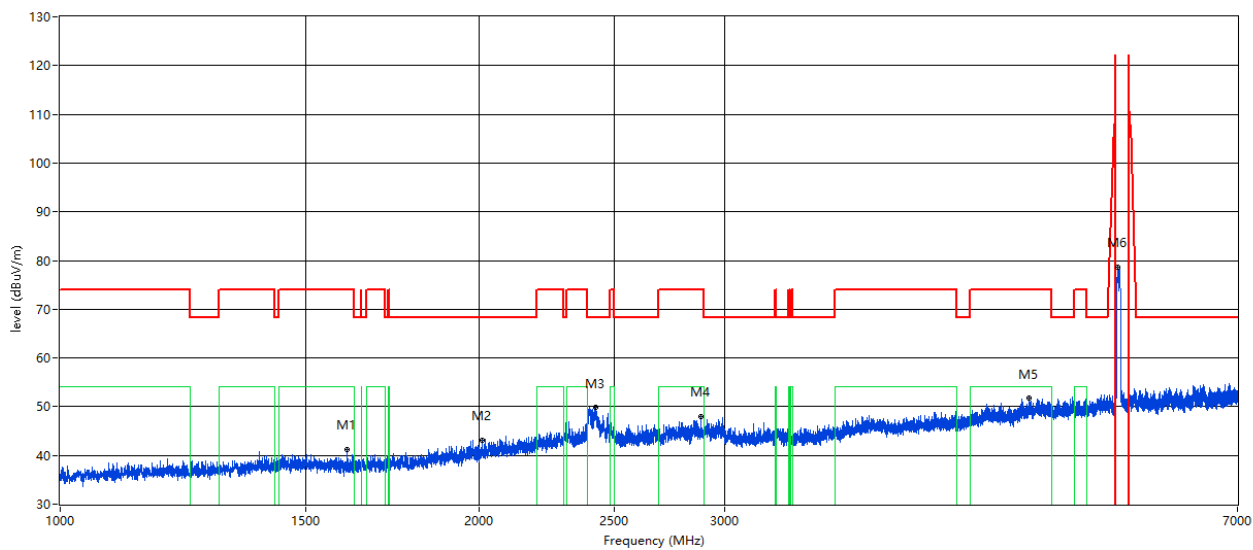
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1526.934           | 41.36                     | --                          | --                           | -11.97         | 74.0                 | --                   | 54.0                 | 12.64          | 47.00     | 100            | Vertical | Pass    |
| 1857.143           | 42.83                     | --                          | --                           | -9.96          | 68.2                 | --                   | --                   | 25.37          | 102.00    | 100            | Vertical | Pass    |
| 2398.325           | 50.48                     | --                          | --                           | -0.04          | 68.2                 | --                   | --                   | 17.72          | 313.00    | 100            | Vertical | Pass    |
| 3429.321           | 45.98                     | --                          | --                           | -5.03          | 68.2                 | --                   | --                   | 22.22          | 18.00     | 100            | Vertical | Pass    |
| 4967.004           | 50.96                     | --                          | --                           | 1.24           | 74.0                 | --                   | 54.0                 | 3.04           | 66.00     | 100            | Vertical | Pass    |
| 5793.026           | 84.26                     | --                          | --                           | 2.54           | --                   | --                   | --                   | --             | 11.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11n(HT40) High channel



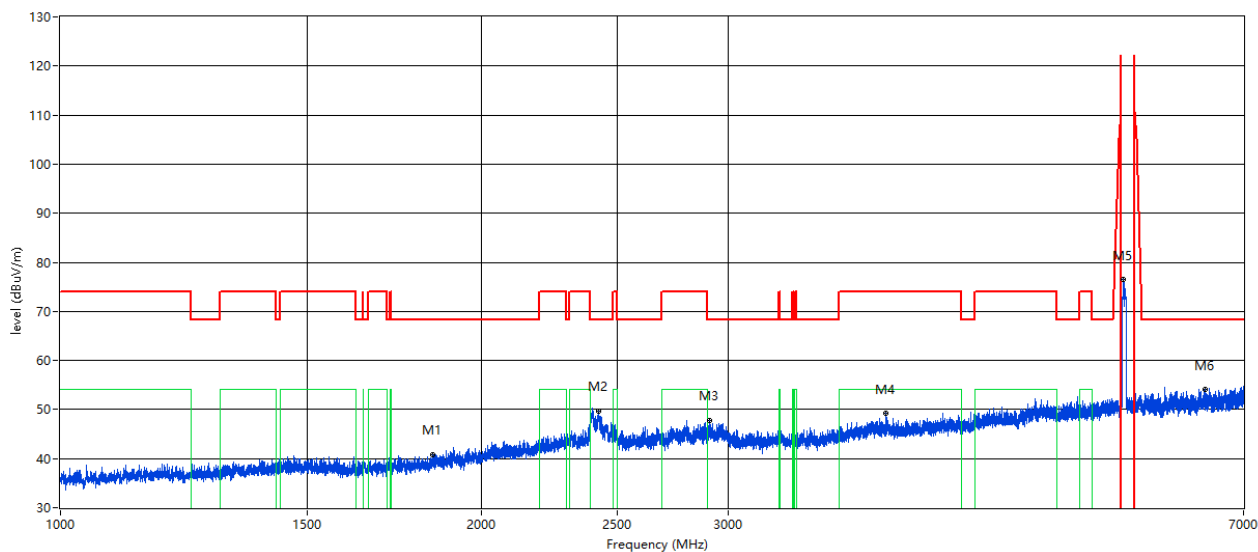
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1731.159           | 40.94                     | --                          | --                           | -11.11         | 68.2                 | --                   | --                   | 27.26          | 101.00    | 100            | Horizontal | Pass    |
| 2396.325           | 50.19                     | --                          | --                           | 0.05           | 68.2                 | --                   | --                   | 18.01          | 128.00    | 100            | Horizontal | Pass    |
| 3740.157           | 47.42                     | --                          | --                           | -2.85          | 74.0                 | --                   | 54.0                 | 6.58           | 218.00    | 100            | Horizontal | Pass    |
| 4959.130           | 51.17                     | --                          | --                           | 0.99           | 74.0                 | --                   | 54.0                 | 2.83           | 23.00     | 100            | Horizontal | Pass    |
| 5792.276           | 89.53                     | --                          | --                           | 2.52           | --                   | --                   | --                   | --             | 98.00     | 100            | Horizontal | Pass    |
| 6441.195           | 54.69                     | --                          | --                           | 4.32           | 68.2                 | --                   | --                   | 13.51          | 15.00     | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11ac(HT40) Low channel



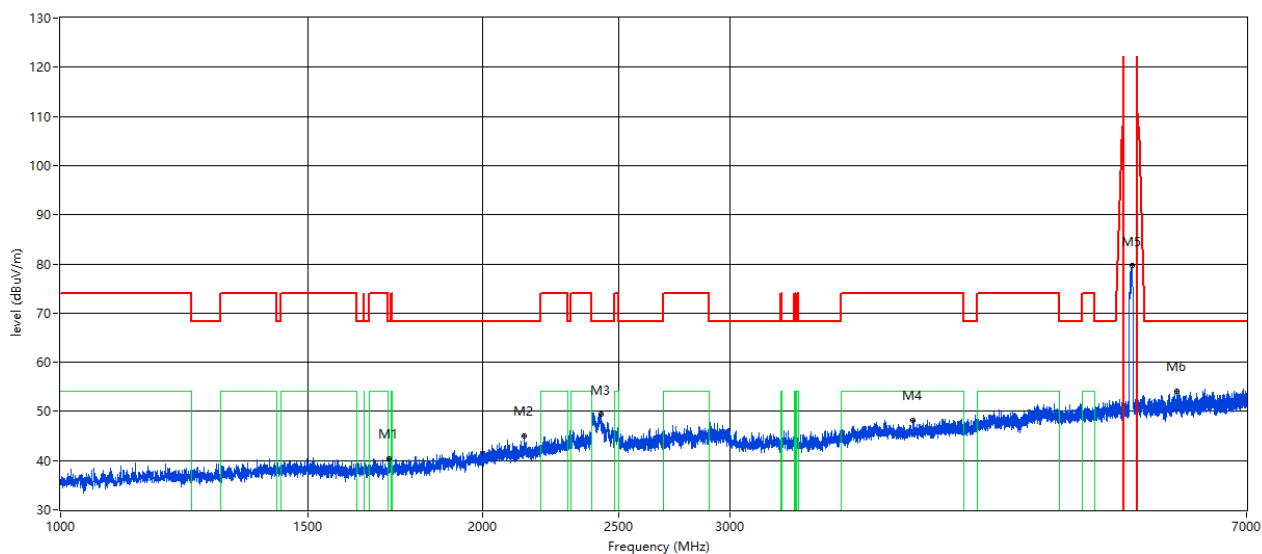
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1607.424           | 41.12                     | --                          | --                           | -11.83         | 74.0                 | --                   | 54.0                 | 12.88          | 105.00    | 100            | Vertical | Pass    |
| 2007.874           | 43.14                     | --                          | --                           | -8.31          | 68.2                 | --                   | --                   | 25.06          | 51.00     | 100            | Vertical | Pass    |
| 2423.822           | 49.95                     | --                          | --                           | -0.90          | 68.2                 | --                   | --                   | 18.25          | 28.00     | 100            | Vertical | Pass    |
| 2882.515           | 47.95                     | --                          | --                           | -3.04          | 74.0                 | --                   | 54.0                 | 6.05           | 334.00    | 100            | Vertical | Pass    |
| 4962.880           | 51.70                     | --                          | --                           | 1.30           | 74.0                 | --                   | 54.0                 | 2.30           | 118.00    | 100            | Vertical | Pass    |
| 5746.532           | 78.67                     | --                          | --                           | 1.92           | --                   | --                   | --                   | --             | 62.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11ac(HT40) Low channel



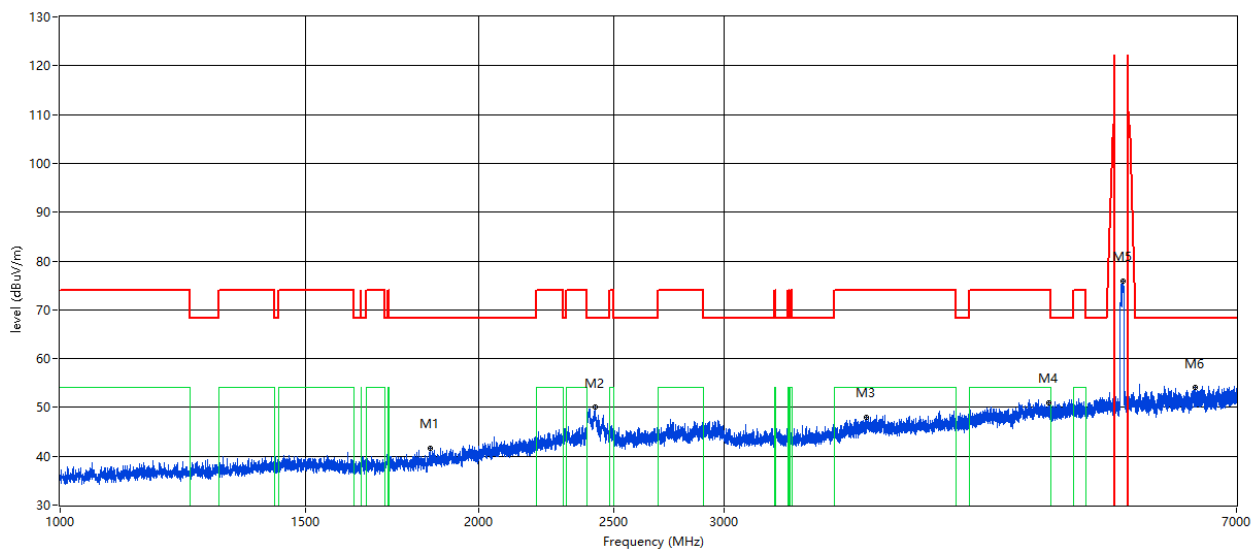
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1845.144           | 40.85                     | --                          | --                           | -10.20         | 68.2                 | --                   | --                   | 27.35          | 218.00    | 100            | Horizontal | Pass    |
| 2423.572           | 49.61                     | --                          | --                           | -0.89          | 68.2                 | --                   | --                   | 18.59          | 155.00    | 100            | Horizontal | Pass    |
| 2909.261           | 47.80                     | --                          | --                           | -3.44          | 68.2                 | --                   | --                   | 20.40          | 136.00    | 100            | Horizontal | Pass    |
| 3888.639           | 49.20                     | --                          | --                           | -3.23          | 74.0                 | --                   | 54.0                 | 4.80           | 126.00    | 100            | Horizontal | Pass    |
| 5742.032           | 76.51                     | --                          | --                           | 1.92           | --                   | --                   | --                   | --             | 315.00    | 100            | Horizontal | Pass    |
| 6576.178           | 54.06                     | --                          | --                           | 5.32           | 68.2                 | --                   | --                   | 14.14          | 345.00    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11ac(HT40) High channel



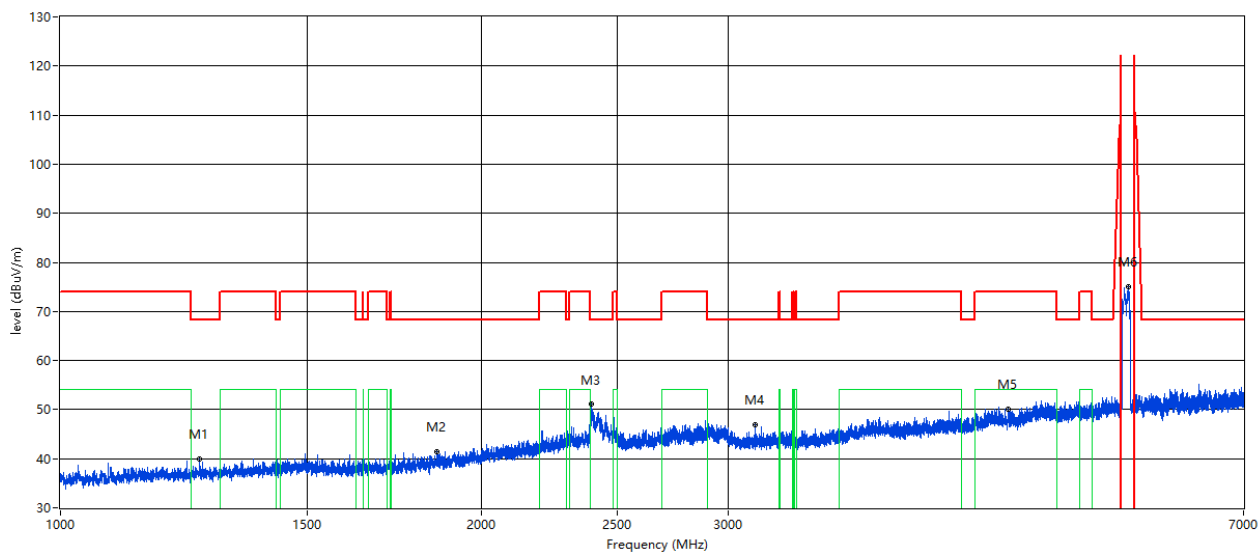
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1715.411           | 40.40                     | --                          | --                           | -11.31         | 68.2                 | --                   | --                   | 27.80          | 105.00    | 100            | Vertical | Pass    |
| 2141.107           | 45.07                     | --                          | --                           | -7.13          | 68.2                 | --                   | --                   | 23.13          | 13.00     | 100            | Vertical | Pass    |
| 2425.572           | 49.48                     | --                          | --                           | -0.98          | 68.2                 | --                   | --                   | 18.72          | 78.00     | 100            | Vertical | Pass    |
| 4047.994           | 48.20                     | --                          | --                           | -2.96          | 74.0                 | --                   | 54.0                 | 5.80           | 229.00    | 100            | Vertical | Pass    |
| 5799.400           | 79.61                     | --                          | --                           | 2.34           | --                   | --                   | --                   | --             | 6.00      | 100            | Vertical | Pass    |
| 6249.469           | 54.07                     | --                          | --                           | 3.81           | 68.2                 | --                   | --                   | 14.13          | 335.00    | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11ac(HT40) High channel



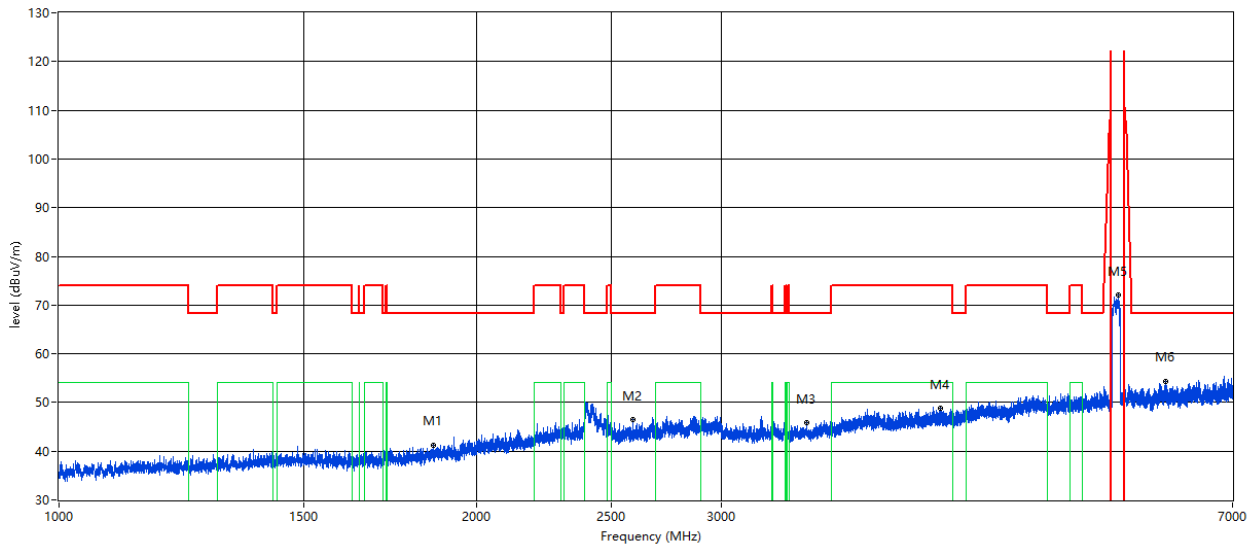
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1843.145           | 41.62                     | --                          | --                           | -9.81          | 68.2                 | --                   | --                   | 26.58          | 224.00    | 100            | Horizontal | Pass    |
| 2423.822           | 50.00                     | --                          | --                           | -0.90          | 68.2                 | --                   | --                   | 18.20          | 5.00      | 100            | Horizontal | Pass    |
| 3793.776           | 48.07                     | --                          | --                           | -2.77          | 74.0                 | --                   | 54.0                 | 5.93           | 328.00    | 100            | Horizontal | Pass    |
| 5131.234           | 50.99                     | --                          | --                           | 1.09           | 74.0                 | --                   | 54.0                 | 3.01           | 316.00    | 100            | Horizontal | Pass    |
| 5800.900           | 75.93                     | --                          | --                           | 2.36           | --                   | --                   | --                   | --             | 107.00    | 100            | Horizontal | Pass    |
| 6536.683           | 54.04                     | --                          | --                           | 4.30           | 68.2                 | --                   | --                   | 14.16          | 217.00    | 100            | Horizontal | Pass    |

## 1 GHz to 7 GHz, ANT V Band IV 802.11ac(HT80) Low channel



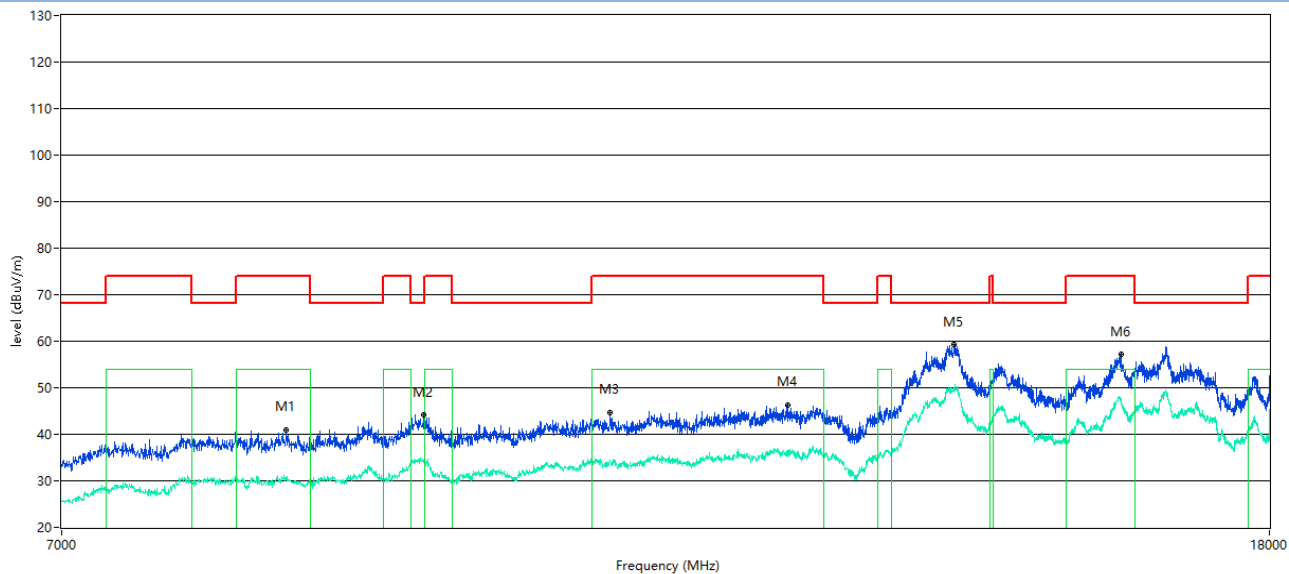
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 1256.468           | 40.02                     | --                          | --                           | -12.34         | 68.2                 | --                   | --                   | 28.18          | 105.00    | 100            | Vertical | Pass    |
| 1858.393           | 41.34                     | --                          | --                           | -9.99          | 68.2                 | --                   | --                   | 26.86          | 81.00     | 100            | Vertical | Pass    |
| 2396.075           | 51.04                     | --                          | --                           | 0.06           | 68.2                 | --                   | --                   | 17.16          | 14.00     | 100            | Vertical | Pass    |
| 3136.483           | 46.83                     | --                          | --                           | -4.89          | 68.2                 | --                   | --                   | 21.37          | 173.00    | 100            | Vertical | Pass    |
| 4757.030           | 50.17                     | --                          | --                           | -0.56          | 74.0                 | --                   | 54.0                 | 3.83           | 9.00      | 100            | Vertical | Pass    |
| 5796.400           | 75.09                     | --                          | --                           | 2.47           | --                   | --                   | --                   | --             | 85.00     | 100            | Vertical | Pass    |

## 1 GHz to 7 GHz, ANT H Band IV 802.11ac(HT80) Low channel



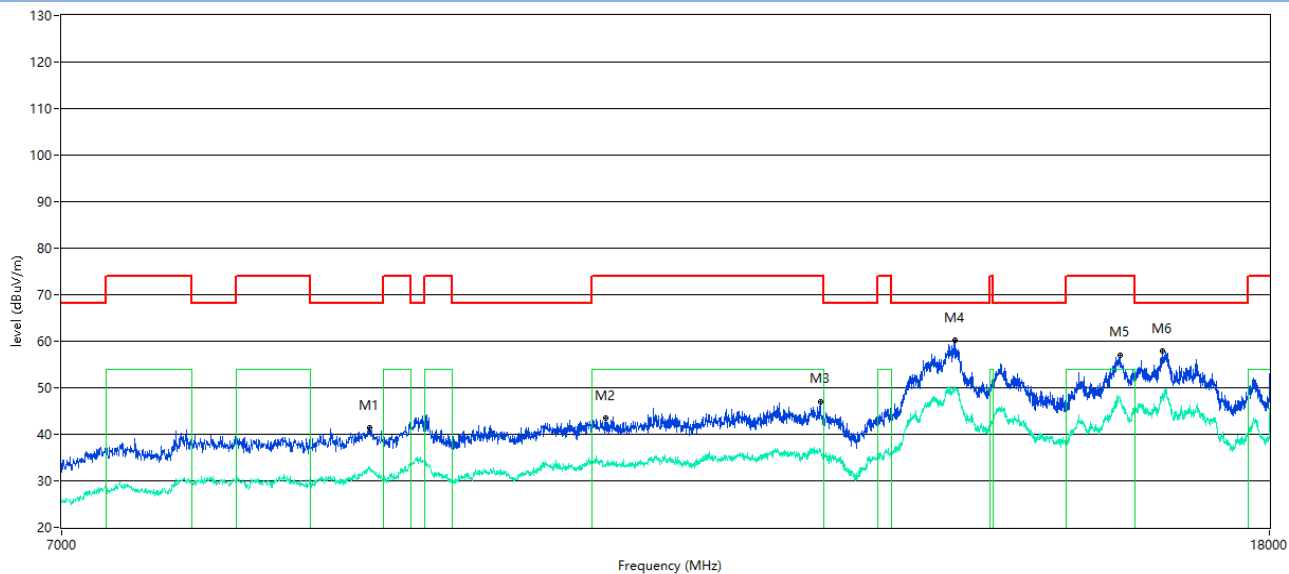
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1859.393           | 41.25                     | --                          | --                           | -10.12         | 68.2                 | --                   | --                   | 26.95          | 135.90    | 100            | Horizontal | Pass    |
| 2589.051           | 46.40                     | --                          | --                           | -5.62          | 68.2                 | --                   | --                   | 21.80          | 171.50    | 100            | Horizontal | Pass    |
| 3455.943           | 45.76                     | --                          | --                           | -4.68          | 68.2                 | --                   | --                   | 22.44          | 252.80    | 100            | Horizontal | Pass    |
| 4314.586           | 48.73                     | --                          | --                           | -2.02          | 74.0                 | --                   | 54.0                 | 5.27           | 277.00    | 100            | Horizontal | Pass    |
| 5789.276           | 72.00                     | --                          | --                           | 2.44           | --                   | --                   | --                   | --             | 215.50    | 100            | Horizontal | Pass    |
| 6270.716           | 54.30                     | --                          | --                           | 4.39           | 68.2                 | --                   | --                   | 13.90          | 189.10    | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11a Low channel



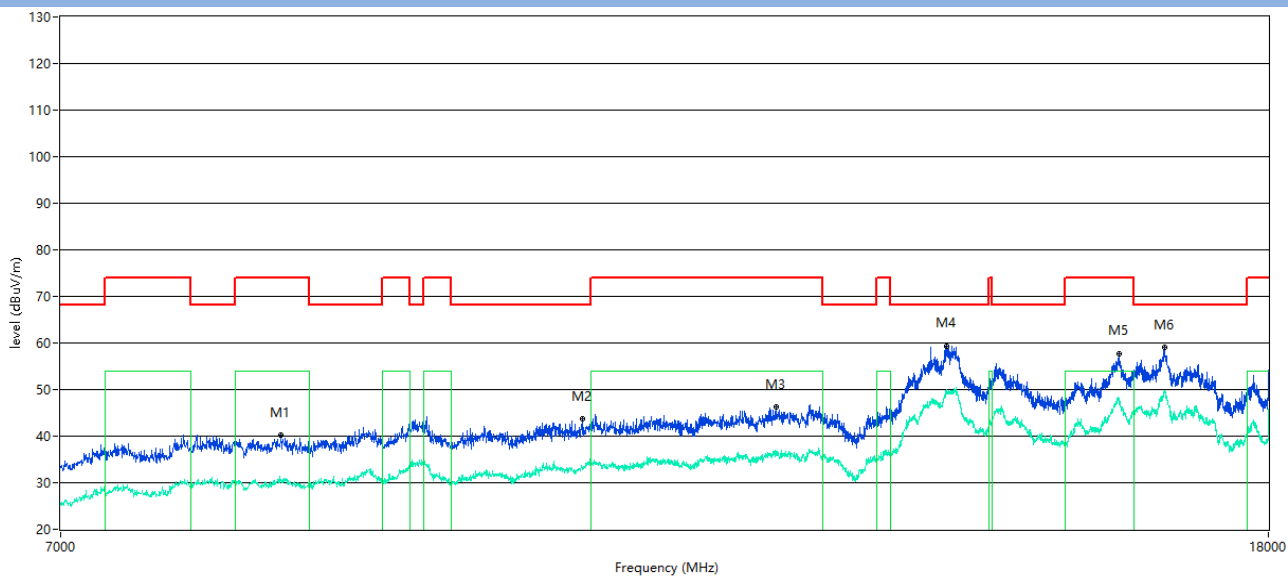
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8344.414           | 41.04                     | --                          | 30.7                         | -6.90          | 74.0                 | --                   | 54.0                 | 23.30          | 83.00     | 100            | Vertical | Pass    |
| 9292.927           | 44.14                     | --                          | 34.1                         | -4.01          | 68.2                 | --                   | --                   | 24.06          | 45.00     | 100            | Vertical | Pass    |
| 10750.062          | 44.68                     | --                          | 34.4                         | -1.92          | 74.0                 | --                   | 54.0                 | 19.60          | 66.00     | 100            | Vertical | Pass    |
| 12350.162          | 46.31                     | --                          | 36.6                         | -0.65          | 74.0                 | --                   | 54.0                 | 17.40          | 104.00    | 100            | Vertical | Pass    |
| 14068.483          | 59.25                     | --                          | 49.5                         | 14.56          | 68.2                 | --                   | --                   | 8.95           | 264.00    | 100            | Vertical | Pass    |
| 16028.743          | 57.16                     | --                          | 47.3                         | 9.83           | 74.0                 | --                   | 54.0                 | 6.70           | 4.00      | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11a Low channel



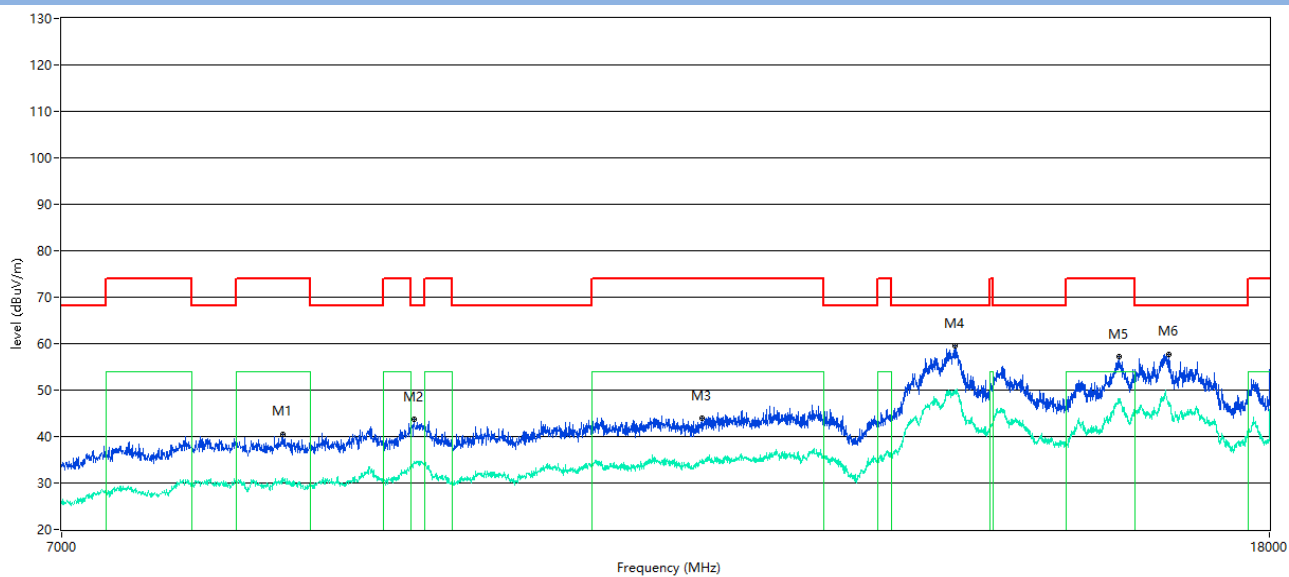
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8905.274           | 41.37                     | --                          | 33.0                         | -5.05          | 68.2                 | --                   | --                   | 26.83          | 106.00    | 100            | Horizontal | Pass    |
| 10708.823          | 43.40                     | --                          | 33.4                         | -2.02          | 74.0                 | --                   | 54.0                 | 20.60          | 61.00     | 100            | Horizontal | Pass    |
| 12669.083          | 46.99                     | --                          | 36.7                         | 0.17           | 74.0                 | --                   | 54.0                 | 17.30          | 181.00    | 100            | Horizontal | Pass    |
| 14079.480          | 60.15                     | --                          | 50.3                         | 14.72          | 68.2                 | --                   | --                   | 8.05           | 15.00     | 100            | Horizontal | Pass    |
| 16012.247          | 57.05                     | --                          | 47.8                         | 10.34          | 74.0                 | --                   | 54.0                 | 6.20           | 215.00    | 100            | Horizontal | Pass    |
| 16553.862          | 57.80                     | --                          | 48.0                         | 11.00          | 68.2                 | --                   | --                   | 10.40          | 8.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11a Middle channel



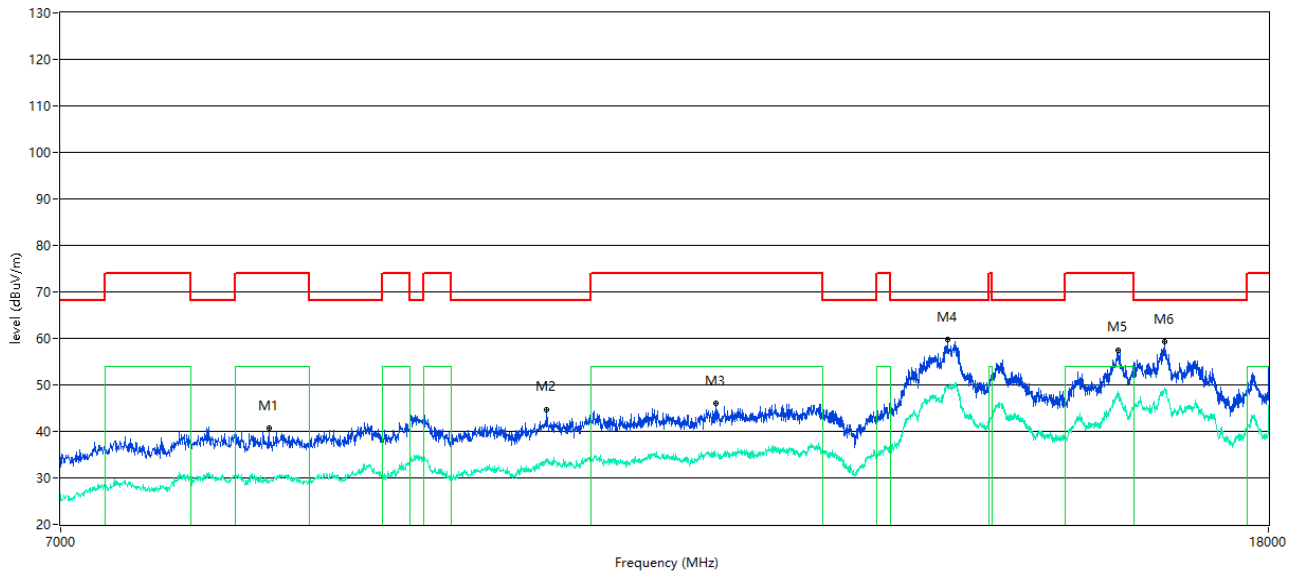
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8316.921           | 40.17                     | --                          | 30.6                         | -6.92          | 74.0                 | --                   | 54.0                 | 23.40          | 225.00    | 100            | Vertical | Pass    |
| 10524.619          | 43.61                     | --                          | 33.4                         | -2.49          | 68.2                 | --                   | --                   | 24.59          | 10.00     | 100            | Vertical | Pass    |
| 12248.438          | 46.26                     | --                          | 36.2                         | -0.44          | 74.0                 | --                   | 54.0                 | 17.80          | 60.00     | 100            | Vertical | Pass    |
| 13999.750          | 59.38                     | --                          | 49.0                         | 14.17          | 68.2                 | --                   | --                   | 8.82           | 72.00     | 100            | Vertical | Pass    |
| 16017.746          | 57.73                     | --                          | 48.2                         | 10.15          | 74.0                 | --                   | 54.0                 | 5.80           | 12.00     | 100            | Vertical | Pass    |
| 16600.600          | 59.01                     | --                          | 49.9                         | 12.12          | 68.2                 | --                   | --                   | 9.19           | 88.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11a Middle channel



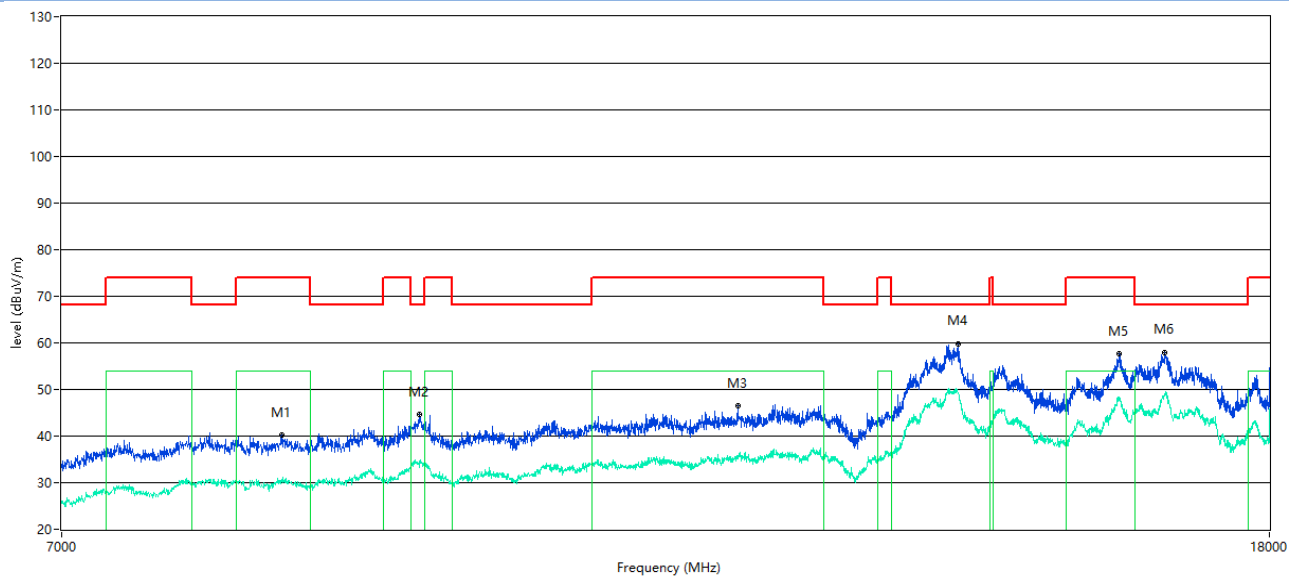
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8319.670           | 40.53                     | --                          | 31.1                         | -6.95          | 74.0                 | --                   | 54.0                 | 22.90          | 51.00     | 100            | Horizontal | Pass    |
| 9221.445           | 43.64                     | --                          | 34.7                         | -4.68          | 68.2                 | --                   | --                   | 24.56          | 225.00    | 100            | Horizontal | Pass    |
| 11547.363          | 43.95                     | --                          | 35.2                         | -0.92          | 74.0                 | --                   | 54.0                 | 18.80          | 108.00    | 100            | Horizontal | Pass    |
| 14076.731          | 59.55                     | --                          | 49.7                         | 14.65          | 68.2                 | --                   | --                   | 8.65           | 11.00     | 100            | Horizontal | Pass    |
| 16006.748          | 57.10                     | --                          | 48.1                         | 10.53          | 74.0                 | --                   | 54.0                 | 5.90           | 34.00     | 100            | Horizontal | Pass    |
| 16636.341          | 57.68                     | --                          | 47.3                         | 10.91          | 68.2                 | --                   | --                   | 10.52          | 4.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11a High channel



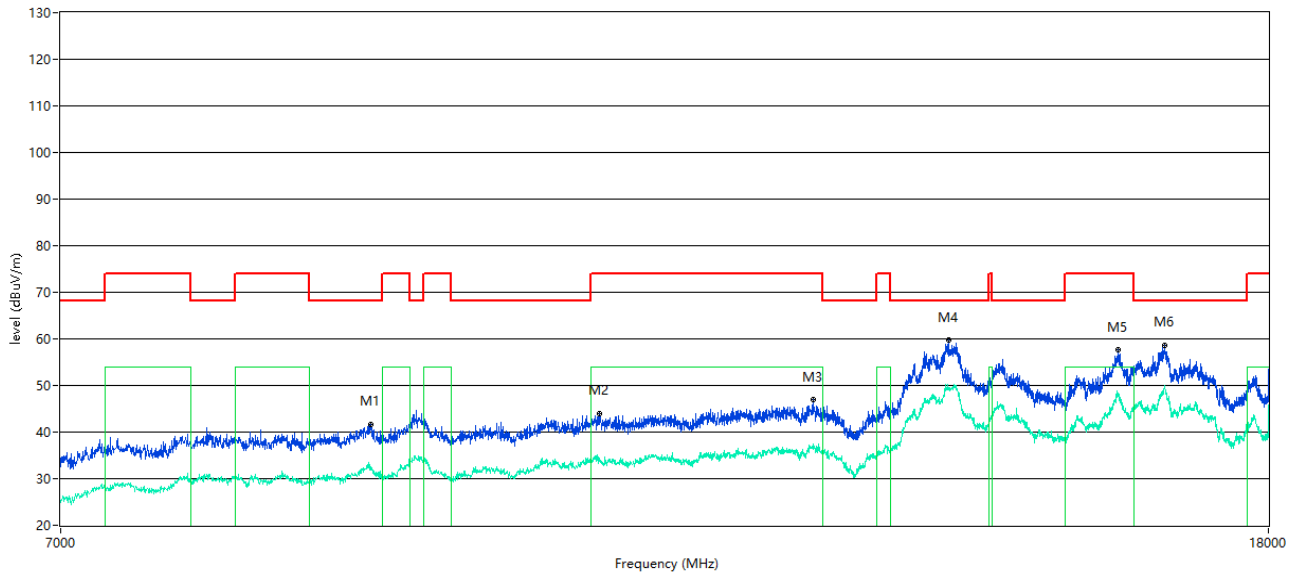
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8237.191           | 40.65                     | --                          | 29.3                         | -7.36          | 74.0                 | --                   | 54.0                 | 24.70          | 10.00     | 100            | Vertical | Pass    |
| 10238.690          | 44.76                     | --                          | 33.6                         | -2.21          | 68.2                 | --                   | --                   | 23.44          | 6.00      | 100            | Vertical | Pass    |
| 11684.829          | 45.99                     | --                          | 35.0                         | -0.66          | 74.0                 | --                   | 54.0                 | 19.00          | 184.00    | 100            | Vertical | Pass    |
| 14002.499          | 59.74                     | --                          | 49.7                         | 14.20          | 68.2                 | --                   | --                   | 8.46           | 211.00    | 100            | Vertical | Pass    |
| 16001.250          | 57.50                     | --                          | 48.5                         | 10.71          | 74.0                 | --                   | 54.0                 | 5.50           | 23.00     | 100            | Vertical | Pass    |
| 16603.349          | 59.24                     | --                          | 49.3                         | 12.02          | 68.2                 | --                   | --                   | 8.96           | 315.00    | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11a High channel



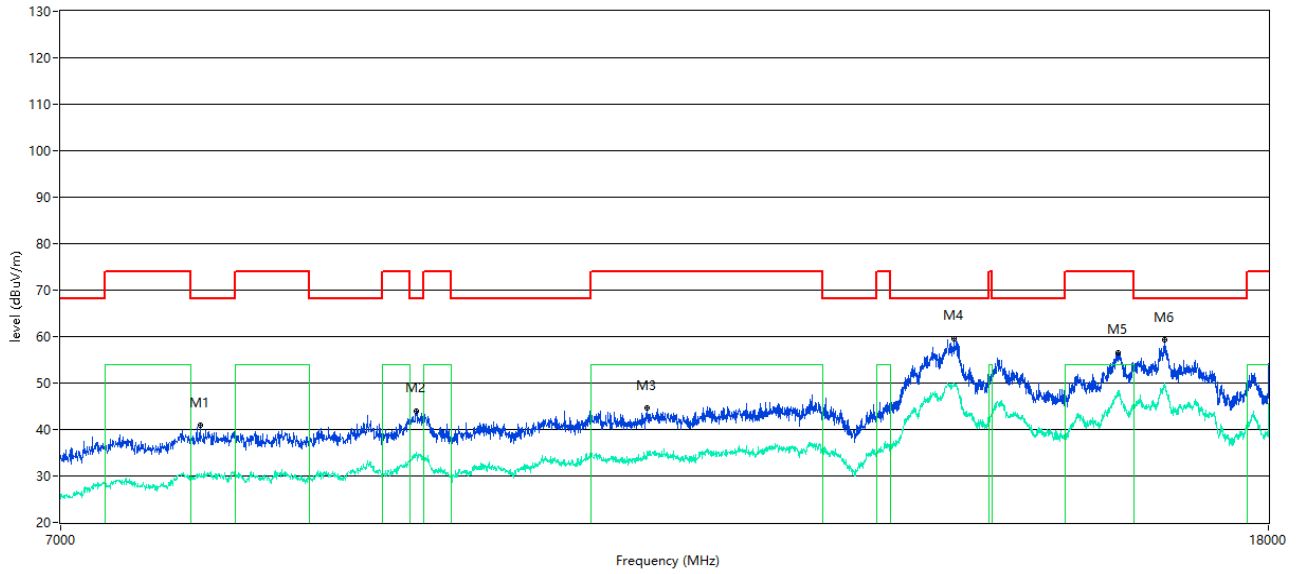
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8316.921           | 40.19                     | --                          | 30.1                         | -6.92          | 74.0                 | --                   | 54.0                 | 23.90          | 102.00    | 100            | Horizontal | Pass    |
| 9257.186           | 44.55                     | --                          | 34.6                         | -4.29          | 68.2                 | --                   | --                   | 23.65          | 46.00     | 100            | Horizontal | Pass    |
| 11877.281          | 46.46                     | --                          | 35.7                         | -0.91          | 74.0                 | --                   | 54.0                 | 18.30          | 28.00     | 100            | Horizontal | Pass    |
| 14112.472          | 59.87                     | --                          | 49.3                         | 13.97          | 68.2                 | --                   | --                   | 8.33           | 63.00     | 100            | Horizontal | Pass    |
| 16006.748          | 57.66                     | --                          | 48.3                         | 10.53          | 74.0                 | --                   | 54.0                 | 5.70           | 15.00     | 100            | Horizontal | Pass    |
| 16581.355          | 57.92                     | --                          | 49.2                         | 11.66          | 68.2                 | --                   | --                   | 10.28          | 4.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11n(HT20) Low channel



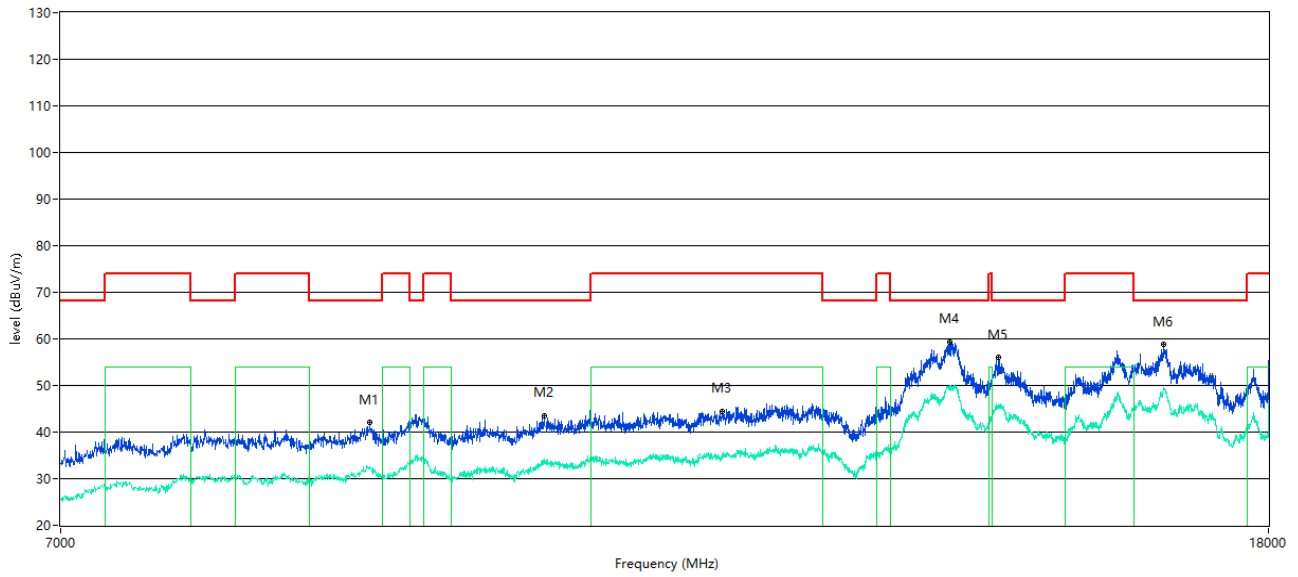
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8919.020           | 41.66                     | --                          | 32.1                         | -5.30          | 68.2                 | --                   | --                   | 26.54          | 90.00     | 100            | Vertical | Pass    |
| 10664.834          | 43.97                     | --                          | 33.6                         | -1.83          | 74.0                 | --                   | 54.0                 | 20.40          | 26.00     | 100            | Vertical | Pass    |
| 12605.849          | 46.91                     | --                          | 36.6                         | 0.29           | 74.0                 | --                   | 54.0                 | 17.40          | 103.00    | 100            | Vertical | Pass    |
| 14018.995          | 59.70                     | --                          | 49.3                         | 14.23          | 68.2                 | --                   | --                   | 8.50           | 38.00     | 100            | Vertical | Pass    |
| 16009.498          | 57.61                     | --                          | 48.1                         | 10.44          | 74.0                 | --                   | 54.0                 | 5.90           | 234.00    | 100            | Vertical | Pass    |
| 16592.352          | 58.61                     | --                          | 49.4                         | 11.91          | 68.2                 | --                   | --                   | 9.59           | 15.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11n(HT20) Low channel



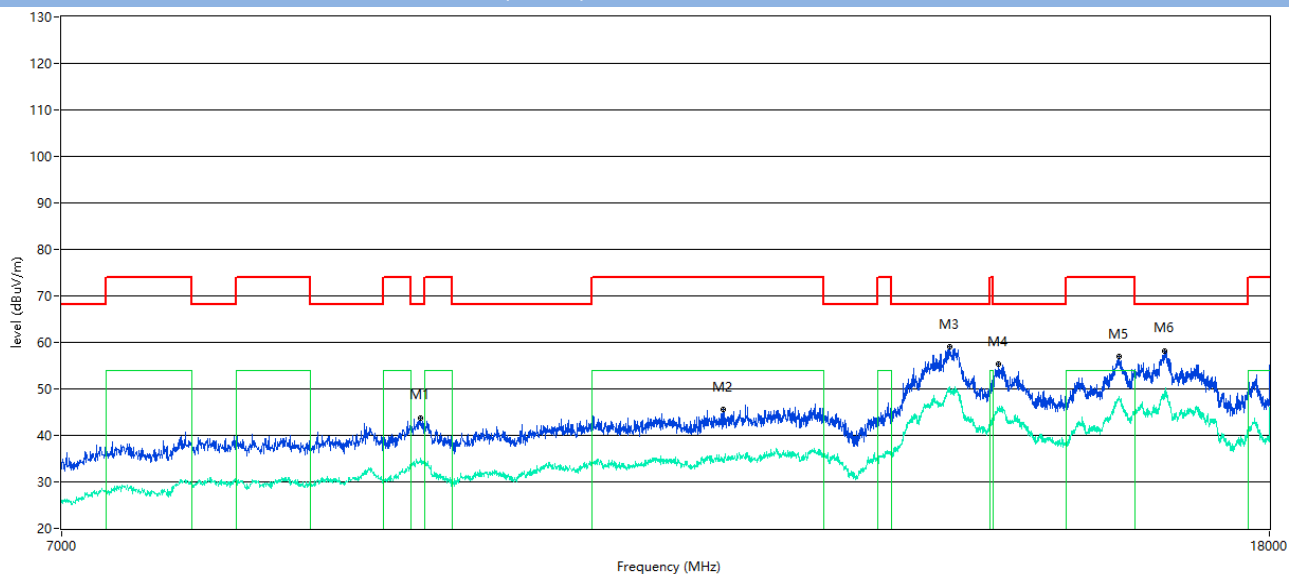
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 7805.549           | 40.92                     | --                          | 29.9                         | -8.36          | 68.2                 | --                   | --                   | 27.28          | 13.00     | 100            | Horizontal | Pass    |
| 9246.188           | 44.07                     | --                          | 34.4                         | -4.49          | 68.2                 | --                   | --                   | 24.13          | 58.00     | 100            | Horizontal | Pass    |
| 11068.983          | 44.64                     | --                          | 34.3                         | -1.67          | 74.0                 | --                   | 54.0                 | 19.70          | 210.00    | 100            | Horizontal | Pass    |
| 14076.731          | 59.49                     | --                          | 49.8                         | 14.65          | 68.2                 | --                   | --                   | 8.71           | 11.00     | 100            | Horizontal | Pass    |
| 15998.500          | 56.57                     | --                          | 47.9                         | 10.69          | 74.0                 | --                   | 54.0                 | 6.10           | 185.00    | 100            | Horizontal | Pass    |
| 16600.600          | 59.24                     | --                          | 49.7                         | 12.12          | 68.2                 | --                   | --                   | 8.96           | 12.00     | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11n(HT20) Middle channel



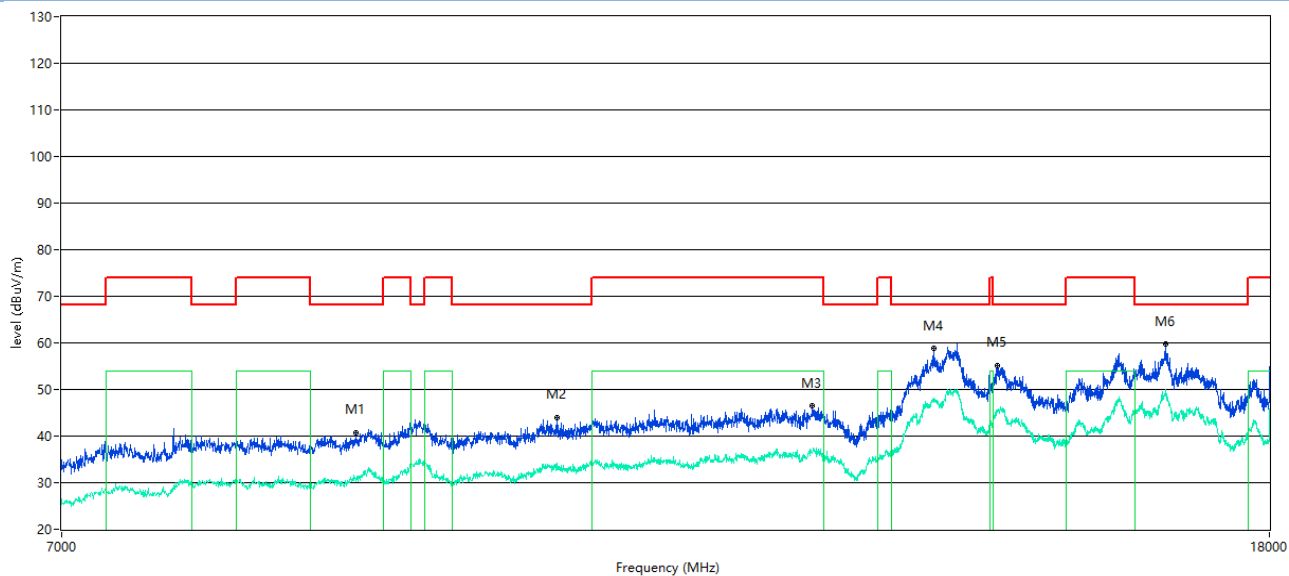
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8913.522           | 42.08                     | --                          | 32.5                         | -5.23          | 68.2                 | --                   | --                   | 26.12          | 48.00     | 100            | Vertical | Pass    |
| 10216.696          | 43.43                     | --                          | 33.3                         | -2.54          | 68.2                 | --                   | --                   | 24.77          | 14.00     | 100            | Vertical | Pass    |
| 11745.314          | 44.47                     | --                          | 35.4                         | -0.98          | 74.0                 | --                   | 54.0                 | 18.60          | 108.00    | 100            | Vertical | Pass    |
| 14032.742          | 59.38                     | --                          | 49.5                         | 14.28          | 68.2                 | --                   | --                   | 8.82           | 3.00      | 100            | Vertical | Pass    |
| 14579.855          | 56.06                     | --                          | 45.6                         | 10.12          | 68.2                 | --                   | --                   | 12.14          | 64.00     | 100            | Vertical | Pass    |
| 16589.603          | 58.75                     | --                          | 49.6                         | 11.84          | 68.2                 | --                   | --                   | 9.45           | 234.00    | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11n(HT20) Middle channel



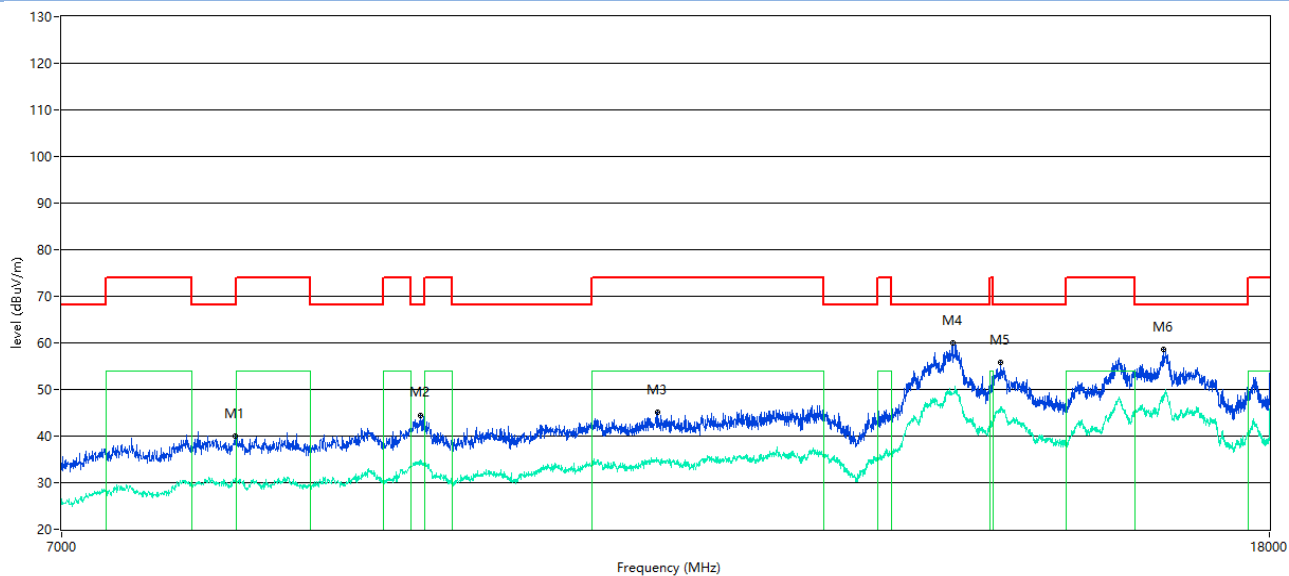
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 9270.932           | 43.76                     | --                          | 35.0                         | -4.09          | 68.2                 | --                   | --                   | 24.44          | 108.00    | 100            | Horizontal | Pass    |
| 11739.815          | 45.66                     | --                          | 34.7                         | -0.92          | 74.0                 | --                   | 54.0                 | 19.30          | 241.00    | 100            | Horizontal | Pass    |
| 14024.494          | 59.02                     | --                          | 49.7                         | 14.25          | 68.2                 | --                   | --                   | 9.18           | 23.00     | 100            | Horizontal | Pass    |
| 14560.610          | 55.28                     | --                          | 45.4                         | 9.74           | 68.2                 | --                   | --                   | 12.92          | 78.00     | 100            | Horizontal | Pass    |
| 16001.250          | 56.93                     | --                          | 48.1                         | 10.71          | 74.0                 | --                   | 54.0                 | 5.90           | 30.00     | 100            | Horizontal | Pass    |
| 16581.355          | 58.22                     | --                          | 48.9                         | 11.66          | 68.2                 | --                   | --                   | 9.98           | 16.00     | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11n(HT20) High channel



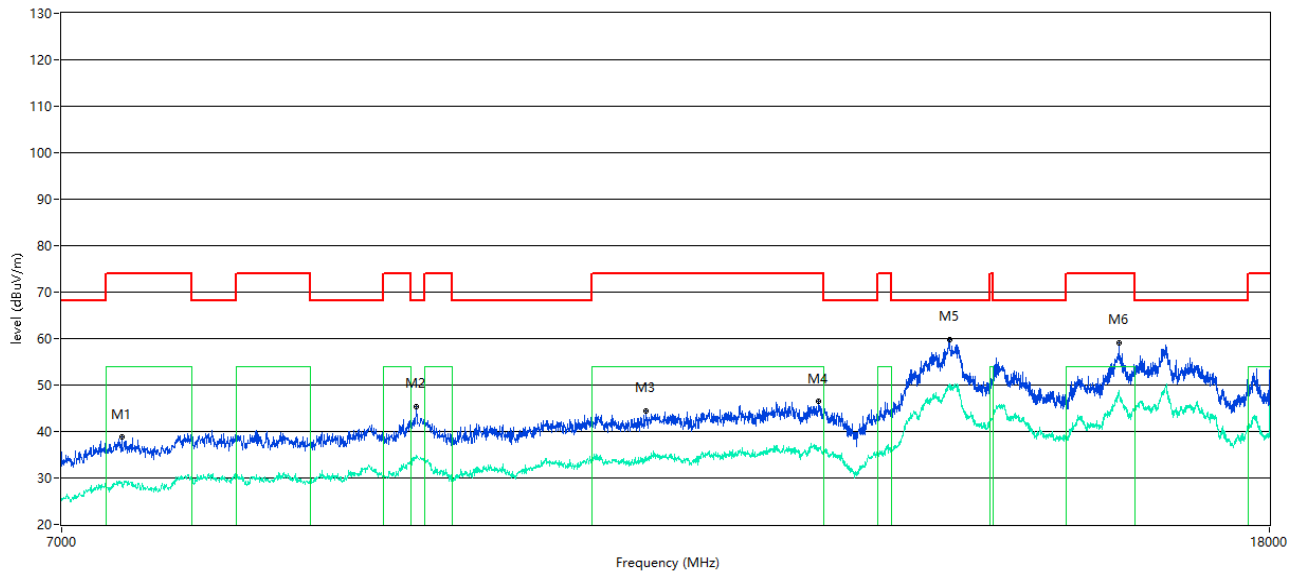
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8811.797           | 40.73                     | --                          | 30.8                         | -6.21          | 68.2                 | --                   | --                   | 27.47          | 183.00    | 100            | Vertical | Pass    |
| 10315.671          | 44.04                     | --                          | 34.2                         | -2.23          | 68.2                 | --                   | --                   | 24.16          | 66.00     | 100            | Vertical | Pass    |
| 12592.102          | 46.47                     | --                          | 36.5                         | 0.23           | 74.0                 | --                   | 54.0                 | 17.50          | 216.00    | 100            | Vertical | Pass    |
| 13843.039          | 58.94                     | --                          | 48.1                         | 11.45          | 68.2                 | --                   | --                   | 9.26           | 76.00     | 100            | Vertical | Pass    |
| 14546.863          | 55.20                     | --                          | 45.4                         | 9.44           | 68.2                 | --                   | --                   | 13.00          | 237.00    | 100            | Vertical | Pass    |
| 16595.101          | 59.73                     | --                          | 49.5                         | 12.00          | 68.2                 | --                   | --                   | 8.47           | 98.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11n(HT20) High channel



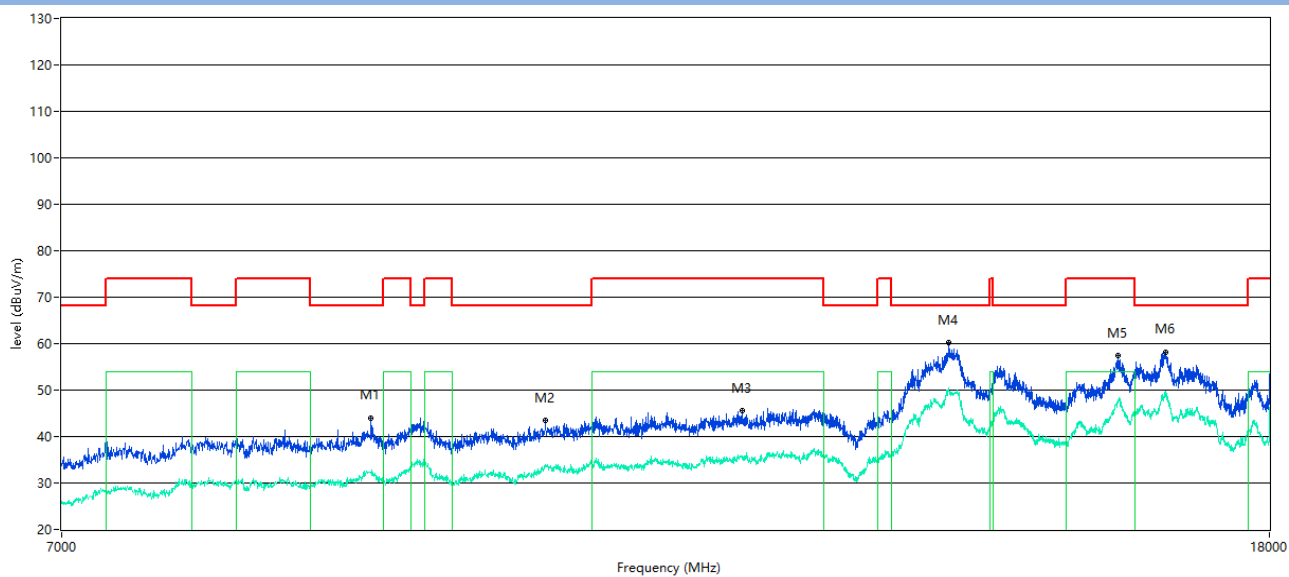
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8014.496           | 39.99                     | --                          | 30.9                         | -9.06          | 68.2                 | --                   | --                   | 28.21          | 91.00     | 100            | Horizontal | Pass    |
| 9265.434           | 44.43                     | --                          | 34.8                         | -4.17          | 68.2                 | --                   | --                   | 23.77          | 146.00    | 100            | Horizontal | Pass    |
| 11154.211          | 45.01                     | --                          | 35.0                         | -2.06          | 74.0                 | --                   | 54.0                 | 19.00          | 26.00     | 100            | Horizontal | Pass    |
| 14049.238          | 59.94                     | --                          | 49.1                         | 14.36          | 68.2                 | --                   | --                   | 8.26           | 78.00     | 100            | Horizontal | Pass    |
| 14585.354          | 55.72                     | --                          | 45.8                         | 10.15          | 68.2                 | --                   | --                   | 12.48          | 8.00      | 100            | Horizontal | Pass    |
| 16564.859          | 58.52                     | --                          | 48.8                         | 11.31          | 68.2                 | --                   | --                   | 9.68           | 312.00    | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11ac(HT20) Low channel



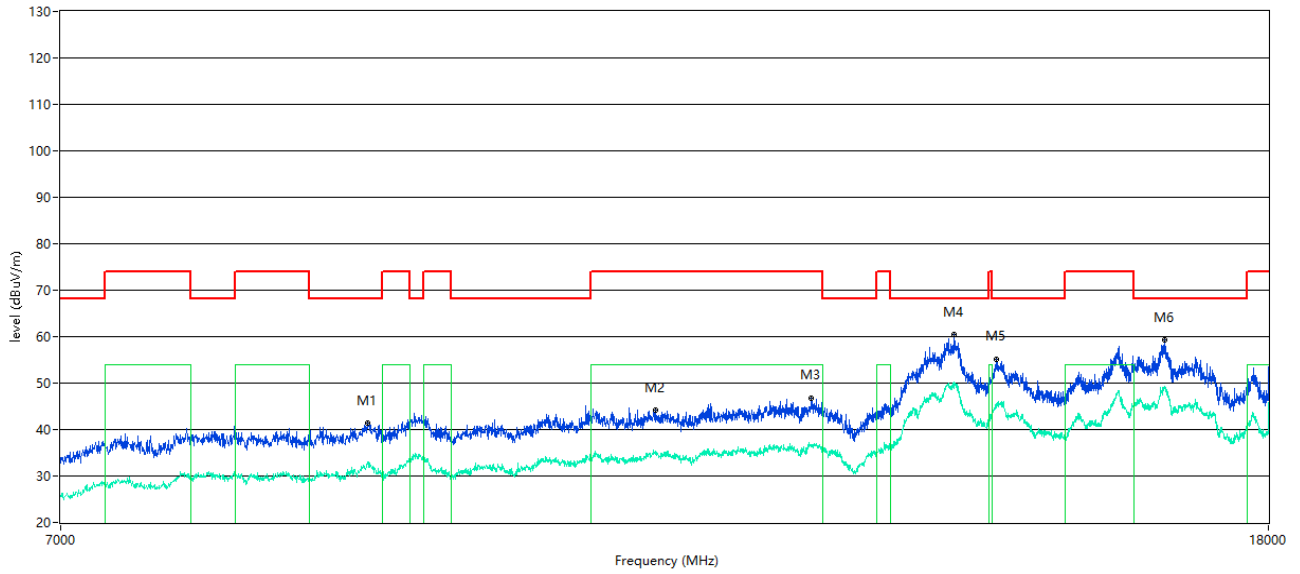
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 7335.416           | 38.76                     | --                          | 29.1                         | -9.24          | 74.0                 | --                   | 54.0                 | 24.90          | 8.00      | 100            | Vertical | Pass    |
| 9240.690           | 45.43                     | --                          | 34.8                         | -4.57          | 68.2                 | --                   | --                   | 22.77          | 13.00     | 100            | Vertical | Pass    |
| 11057.986          | 44.43                     | --                          | 34.7                         | -1.68          | 74.0                 | --                   | 54.0                 | 19.30          | 65.00     | 100            | Vertical | Pass    |
| 12652.587          | 46.46                     | --                          | 36.5                         | 0.21           | 74.0                 | --                   | 54.0                 | 17.50          | 233.00    | 100            | Vertical | Pass    |
| 14021.745          | 59.86                     | --                          | 49.5                         | 14.23          | 68.2                 | --                   | --                   | 8.34           | 15.00     | 100            | Vertical | Pass    |
| 16001.250          | 59.08                     | --                          | 48.8                         | 10.71          | 74.0                 | --                   | 54.0                 | 5.20           | 60.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11ac(HT20) Low channel



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8913.522           | 44.03                     | --                          | 32.3                         | -5.23          | 68.2                 | --                   | --                   | 24.17          | 13.00     | 100            | Horizontal | Pass    |
| 10219.445          | 43.47                     | --                          | 33.9                         | -2.52          | 68.2                 | --                   | --                   | 24.73          | 80.00     | 100            | Horizontal | Pass    |
| 11915.771          | 45.50                     | --                          | 35.6                         | -0.77          | 74.0                 | --                   | 54.0                 | 18.40          | 134.00    | 100            | Horizontal | Pass    |
| 14010.747          | 60.22                     | --                          | 50.0                         | 14.28          | 68.2                 | --                   | --                   | 7.98           | 11.00     | 100            | Horizontal | Pass    |
| 15984.754          | 57.37                     | --                          | 47.1                         | 10.16          | 74.0                 | --                   | 54.0                 | 6.90           | 68.00     | 100            | Horizontal | Pass    |
| 16592.352          | 58.19                     | --                          | 49.8                         | 11.91          | 68.2                 | --                   | --                   | 10.01          | 182.00    | 100            | Horizontal | Pass    |

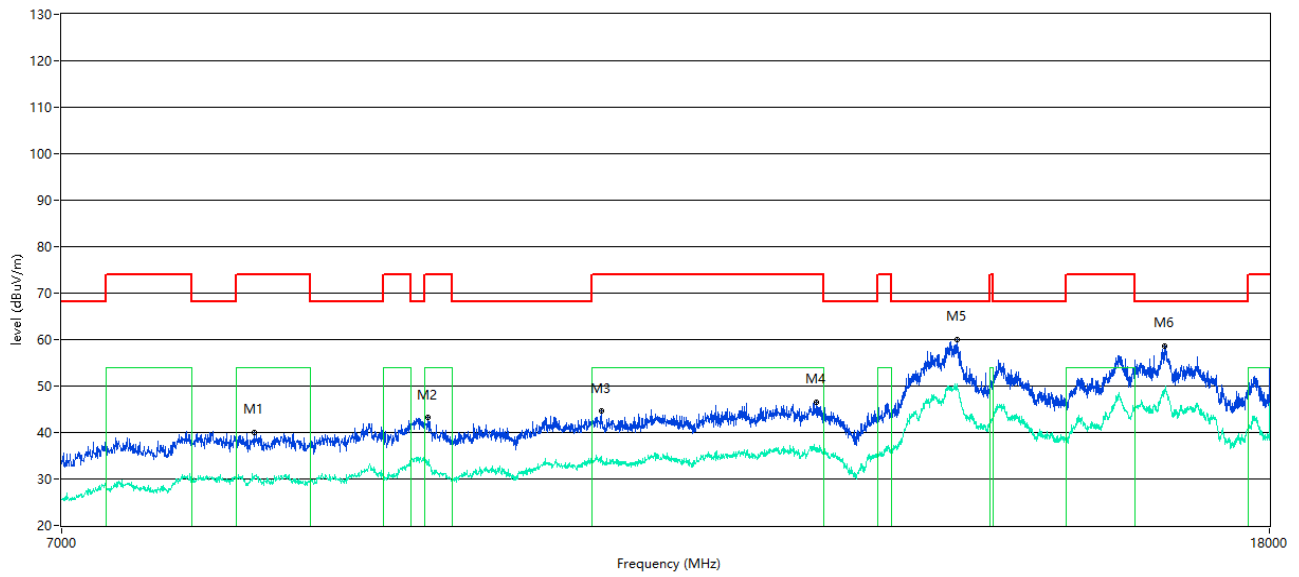
## 7 GHz to 18 GHz, ANT V Band I 802.11ac(HT20) Middle channel



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8899.775           | 41.39                     | --                          | 32.9                         | -4.87          | 68.2                 | --                   | --                   | 26.81          | 21.00     | 100            | Vertical | Pass    |
| 11145.964          | 44.13                     | --                          | 35.5                         | -2.02          | 74.0                 | --                   | 54.0                 | 18.50          | 2.00      | 100            | Vertical | Pass    |
| 12592.102          | 46.85                     | --                          | 36.7                         | 0.23           | 74.0                 | --                   | 54.0                 | 17.30          | 310.00    | 100            | Vertical | Pass    |
| 14082.229          | 60.38                     | --                          | 50.1                         | 14.79          | 68.2                 | --                   | --                   | 7.82           | 185.00    | 100            | Vertical | Pass    |
| 14552.362          | 55.14                     | --                          | 45.7                         | 9.60           | 68.2                 | --                   | --                   | 13.06          | 36.00     | 100            | Vertical | Pass    |
| 16600.600          | 59.27                     | --                          | 49.3                         | 12.12          | 68.2                 | --                   | --                   | 8.93           | 83.00     | 100            | Vertical | Pass    |

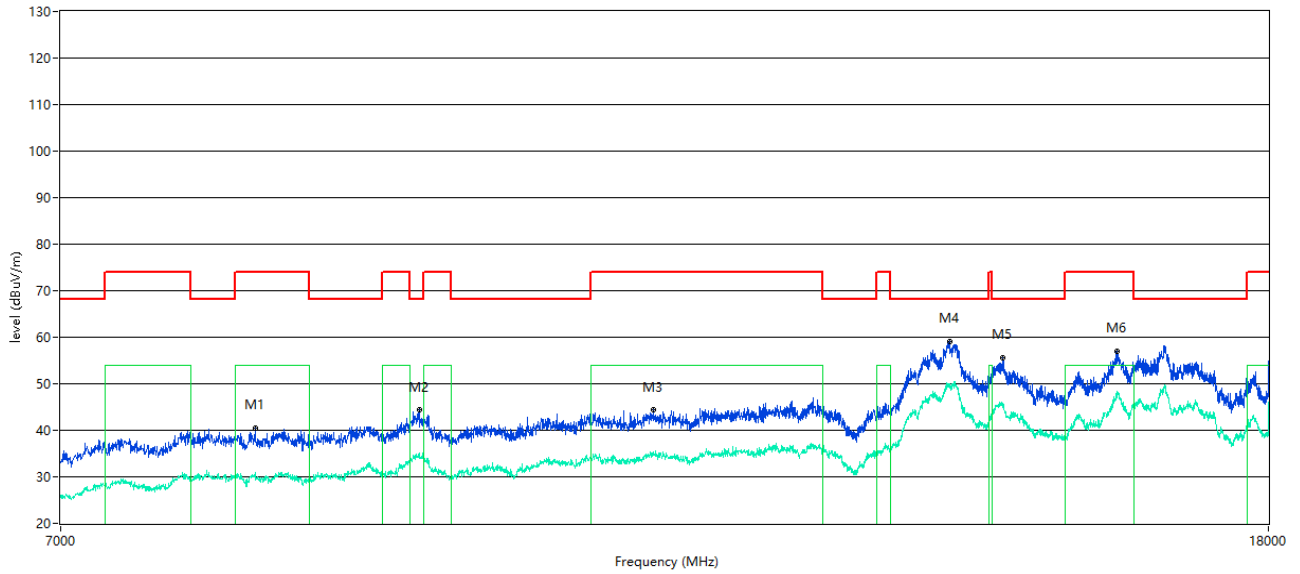
## 7 GHz to 18 GHz, ANT H Band I 802.11ac(HT20) Middle channel

REmission Test case\_FCC\_Part 15E\_FCC 15.407(5G)\_7GHz-18GHz



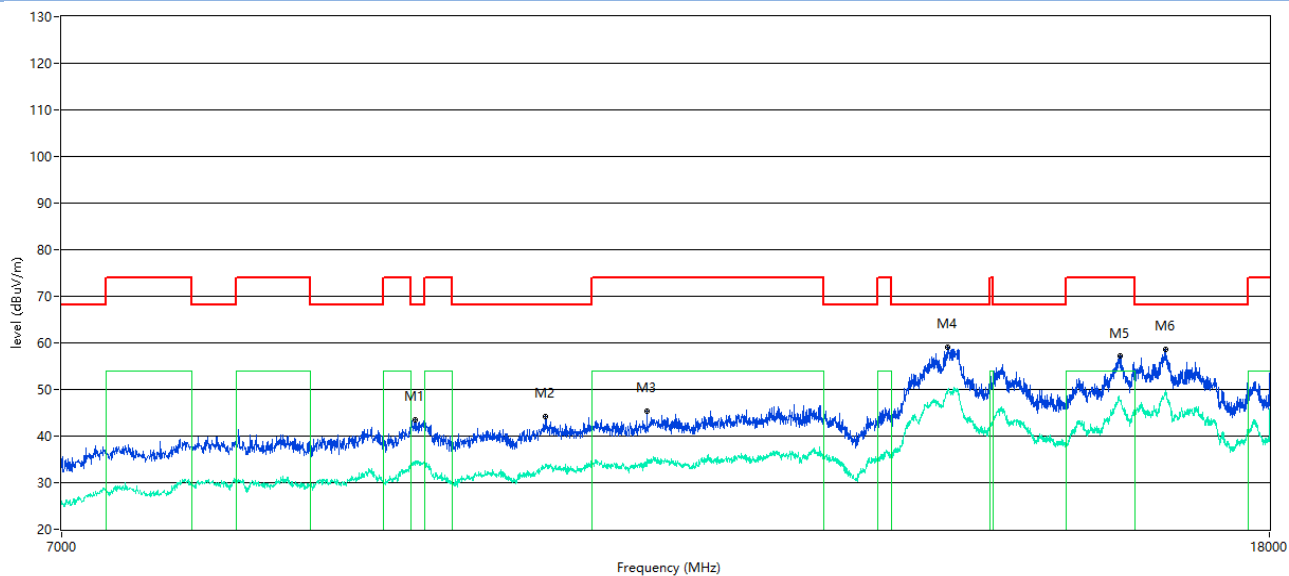
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8138.215           | 40.05                     | --                          | 30.7                         | -7.78          | 74.0                 | --                   | 54.0                 | 23.30          | 57.00     | 100            | Horizontal | Pass    |
| 9323.169           | 43.22                     | --                          | 33.7                         | -4.51          | 74.0                 | --                   | 54.0                 | 20.30          | 9.00      | 100            | Horizontal | Pass    |
| 10673.082          | 44.55                     | --                          | 34.8                         | -1.73          | 74.0                 | --                   | 54.0                 | 19.20          | 14.00     | 100            | Horizontal | Pass    |
| 12633.342          | 46.53                     | --                          | 36.7                         | 0.17           | 74.0                 | --                   | 54.0                 | 17.30          | 76.00     | 100            | Horizontal | Pass    |
| 14098.725          | 60.02                     | --                          | 50.0                         | 14.80          | 68.2                 | --                   | --                   | 8.18           | 185.00    | 100            | Horizontal | Pass    |
| 16581.355          | 58.64                     | --                          | 48.8                         | 11.66          | 68.2                 | --                   | --                   | 9.56           | 0.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11ac(HT20) High channel



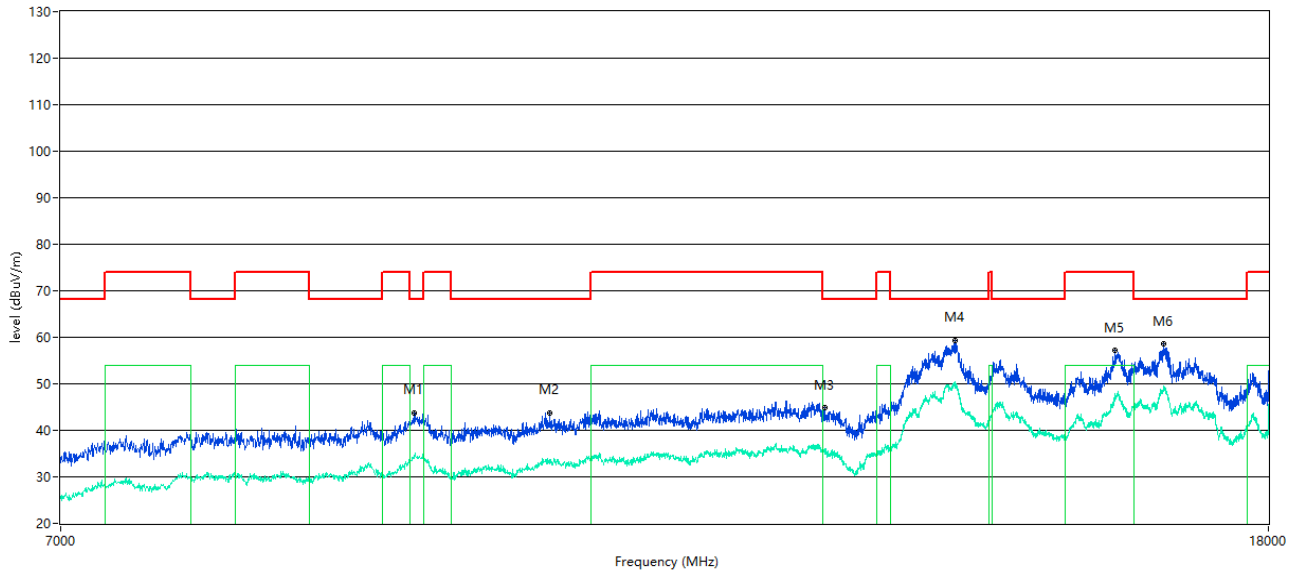
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8149.213           | 40.57                     | --                          | 30.9                         | -7.80          | 74.0                 | --                   | 54.0                 | 23.10          | 58.00     | 100            | Vertical | Pass    |
| 9268.183           | 44.30                     | --                          | 35.1                         | -4.12          | 68.2                 | --                   | --                   | 23.90          | 213.00    | 100            | Vertical | Pass    |
| 11129.468          | 44.35                     | --                          | 34.5                         | -1.93          | 74.0                 | --                   | 54.0                 | 19.50          | 14.00     | 100            | Vertical | Pass    |
| 14032.742          | 59.17                     | --                          | 49.0                         | 14.28          | 68.2                 | --                   | --                   | 9.03           | 181.00    | 100            | Vertical | Pass    |
| 14618.345          | 55.59                     | --                          | 45.9                         | 9.97           | 68.2                 | --                   | --                   | 12.61          | 73.00     | 100            | Vertical | Pass    |
| 15990.252          | 57.02                     | --                          | 47.7                         | 10.35          | 74.0                 | --                   | 54.0                 | 6.30           | 67.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11ac(HT20) High channel



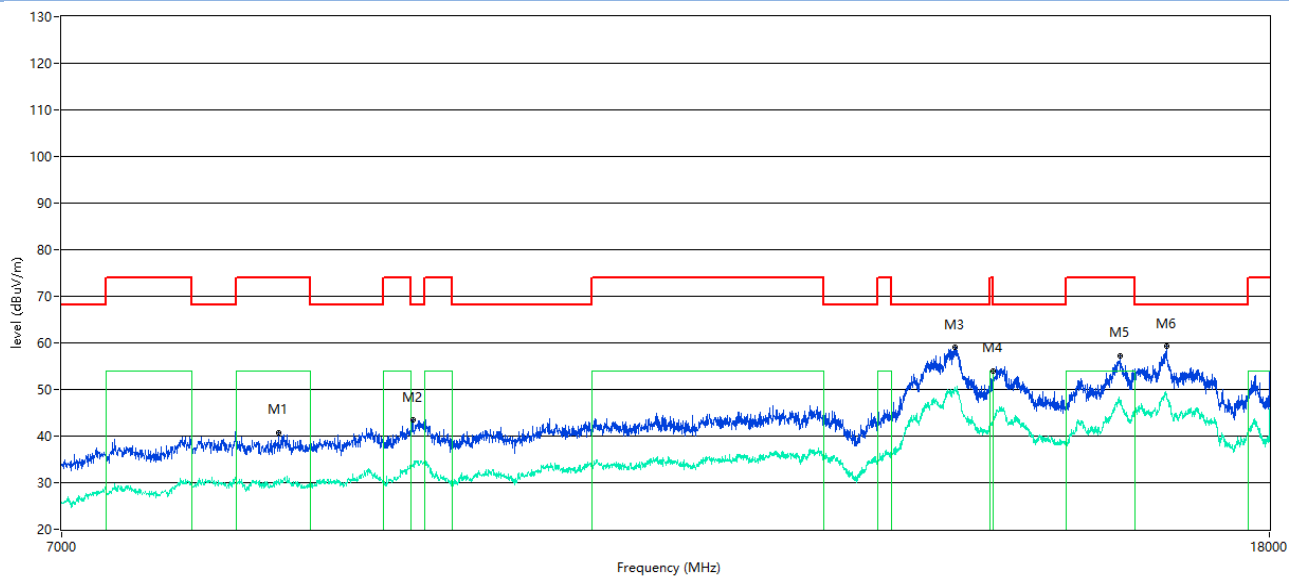
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 9226.943           | 43.51                     | --                          | 34.6                         | -4.67          | 68.2                 | --                   | --                   | 24.69          | 11.00     | 100            | Horizontal | Pass    |
| 10222.194          | 44.22                     | --                          | 33.7                         | -2.48          | 68.2                 | --                   | --                   | 23.98          | 6.00      | 100            | Horizontal | Pass    |
| 11063.484          | 45.45                     | --                          | 35.1                         | -1.62          | 74.0                 | --                   | 54.0                 | 18.90          | 214.00    | 100            | Horizontal | Pass    |
| 13997.001          | 59.09                     | --                          | 49.9                         | 14.10          | 68.2                 | --                   | --                   | 9.11           | 131.00    | 100            | Horizontal | Pass    |
| 16023.244          | 57.13                     | --                          | 47.5                         | 9.99           | 74.0                 | --                   | 54.0                 | 6.50           | 65.00     | 100            | Horizontal | Pass    |
| 16592.352          | 58.62                     | --                          | 49.5                         | 11.91          | 68.2                 | --                   | --                   | 9.58           | 4.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11n(HT40) Low channel



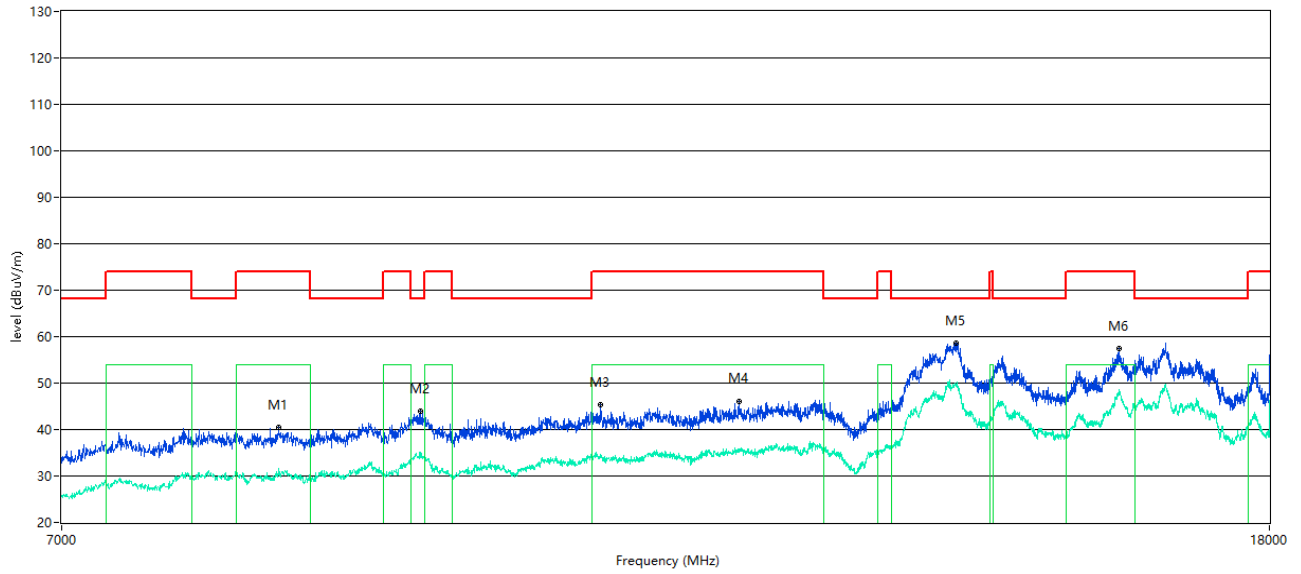
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 9232.442           | 43.73                     | --                          | 34.2                         | -4.61          | 68.2                 | --                   | --                   | 24.47          | 10.00     | 100            | Vertical | Pass    |
| 10260.685          | 43.74                     | --                          | 33.8                         | -2.12          | 68.2                 | --                   | --                   | 24.46          | 6.00      | 100            | Vertical | Pass    |
| 12724.069          | 44.78                     | --                          | 35.8                         | -0.44          | 68.2                 | --                   | --                   | 23.42          | 108.00    | 100            | Vertical | Pass    |
| 14090.477          | 59.37                     | --                          | 50.5                         | 14.83          | 68.2                 | --                   | --                   | 8.83           | 3.00      | 100            | Vertical | Pass    |
| 15965.509          | 57.13                     | --                          | 47.2                         | 9.45           | 74.0                 | --                   | 54.0                 | 6.80           | 234.00    | 100            | Vertical | Pass    |
| 16584.104          | 58.55                     | --                          | 48.5                         | 11.73          | 68.2                 | --                   | --                   | 9.65           | 78.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11n(HT40) Low channel



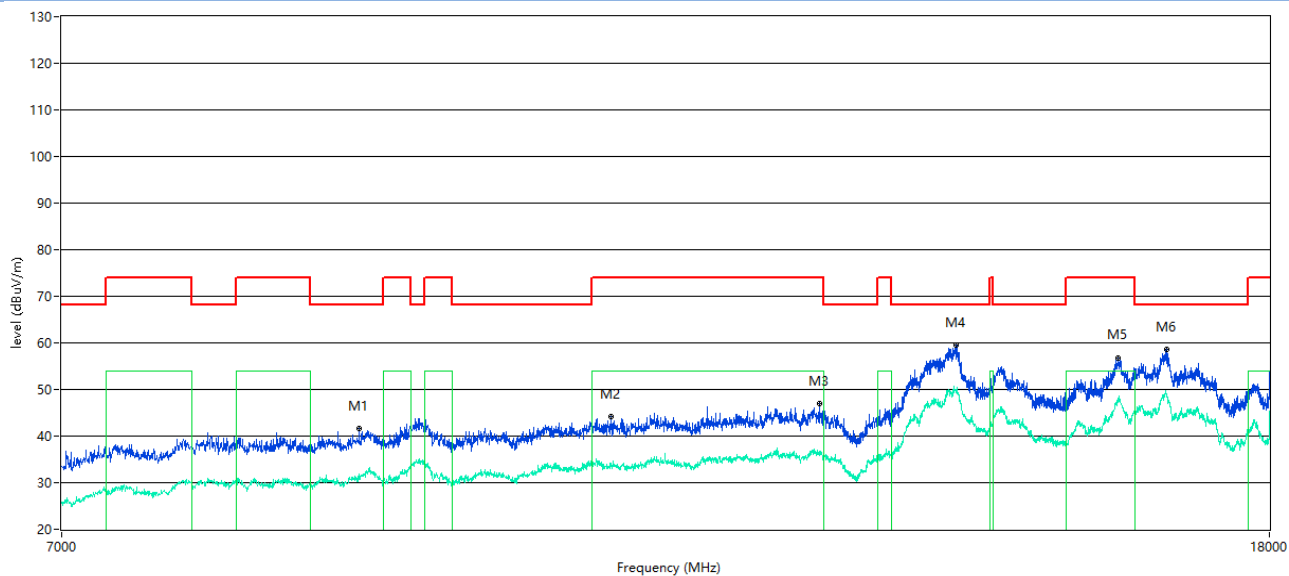
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8292.177           | 40.81                     | --                          | 30.8                         | -6.82          | 74.0                 | --                   | 54.0                 | 23.20          | 13.00     | 100            | Horizontal | Pass    |
| 9210.447           | 43.42                     | --                          | 33.6                         | -4.75          | 68.2                 | --                   | --                   | 24.78          | 1.00      | 100            | Horizontal | Pass    |
| 14079.480          | 59.07                     | --                          | 50.0                         | 14.72          | 68.2                 | --                   | --                   | 9.13           | 65.00     | 100            | Horizontal | Pass    |
| 14544.114          | 54.99                     | --                          | 45.5                         | 9.37           | 68.2                 | --                   | --                   | 13.21          | 17.00     | 100            | Horizontal | Pass    |
| 16017.746          | 57.25                     | --                          | 47.7                         | 10.15          | 74.0                 | --                   | 54.0                 | 6.30           | 332.00    | 100            | Horizontal | Pass    |
| 16614.346          | 59.30                     | --                          | 48.8                         | 11.69          | 68.2                 | --                   | --                   | 8.90           | 8.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11n(HT40) High channel



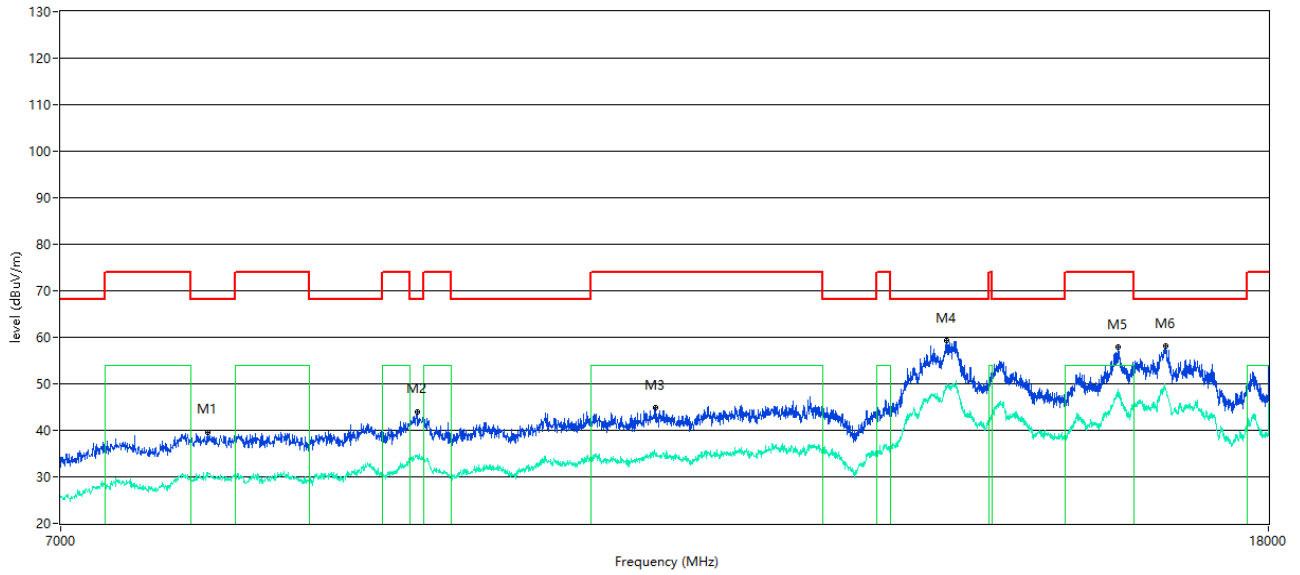
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8294.926           | 40.44                     | --                          | 30.6                         | -6.76          | 74.0                 | --                   | 54.0                 | 23.40          | 183.00    | 100            | Vertical | Pass    |
| 9268.183           | 43.89                     | --                          | 35.1                         | -4.12          | 68.2                 | --                   | --                   | 24.31          | 6.00      | 100            | Vertical | Pass    |
| 10670.332          | 45.31                     | --                          | 34.5                         | -1.76          | 74.0                 | --                   | 54.0                 | 19.50          | 67.00     | 100            | Vertical | Pass    |
| 11885.529          | 46.12                     | --                          | 35.7                         | -0.87          | 74.0                 | --                   | 54.0                 | 18.30          | 226.00    | 100            | Vertical | Pass    |
| 14084.979          | 58.60                     | --                          | 49.9                         | 14.84          | 68.2                 | --                   | --                   | 9.60           | 11.00     | 100            | Vertical | Pass    |
| 15998.500          | 57.34                     | --                          | 48.6                         | 10.69          | 74.0                 | --                   | 54.0                 | 5.40           | 125.00    | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11n(HT40) High channel



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8833.792           | 41.62                     | --                          | 31.9                         | -6.03          | 68.2                 | --                   | --                   | 26.58          | 103.00    | 100            | Horizontal | Pass    |
| 10758.310          | 44.09                     | --                          | 34.0                         | -1.85          | 74.0                 | --                   | 54.0                 | 20.00          | 2.00      | 100            | Horizontal | Pass    |
| 12663.584          | 46.91                     | --                          | 36.7                         | 0.11           | 74.0                 | --                   | 54.0                 | 17.30          | 184.00    | 100            | Horizontal | Pass    |
| 14084.979          | 59.47                     | --                          | 50.0                         | 14.84          | 68.2                 | --                   | --                   | 8.73           | 34.00     | 100            | Horizontal | Pass    |
| 15995.751          | 56.78                     | --                          | 48.2                         | 10.57          | 74.0                 | --                   | 54.0                 | 5.80           | 14.00     | 100            | Horizontal | Pass    |
| 16611.597          | 58.53                     | --                          | 48.8                         | 11.76          | 68.2                 | --                   | --                   | 9.67           | 86.00     | 100            | Horizontal | Pass    |

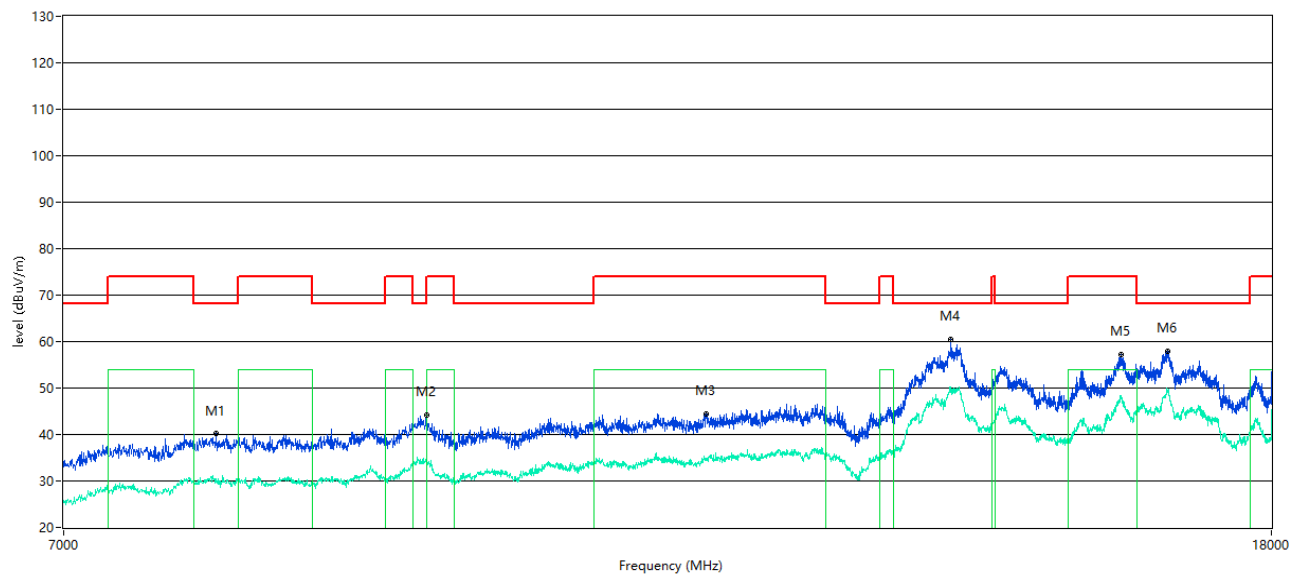
## 7 GHz to 18 GHz, ANT V Band I 802.11ac(HT40) Low channel



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 7855.036           | 39.58                     | --                          | 31.0                         | -8.57          | 68.2                 | --                   | --                   | 28.62          | 13.00     | 100            | Vertical | Pass    |
| 9248.938           | 43.96                     | --                          | 34.6                         | -4.42          | 68.2                 | --                   | --                   | 24.24          | 5.00      | 100            | Vertical | Pass    |
| 11148.713          | 44.85                     | --                          | 34.7                         | -2.04          | 74.0                 | --                   | 54.0                 | 19.30          | 104.00    | 100            | Vertical | Pass    |
| 13997.001          | 59.22                     | --                          | 49.4                         | 14.10          | 68.2                 | --                   | --                   | 8.98           | 65.00     | 100            | Vertical | Pass    |
| 16006.748          | 57.88                     | --                          | 48.9                         | 10.53          | 74.0                 | --                   | 54.0                 | 5.10           | 312.00    | 100            | Vertical | Pass    |
| 16606.098          | 58.12                     | --                          | 48.5                         | 11.92          | 68.2                 | --                   | --                   | 10.08          | 47.00     | 100            | Vertical | Pass    |

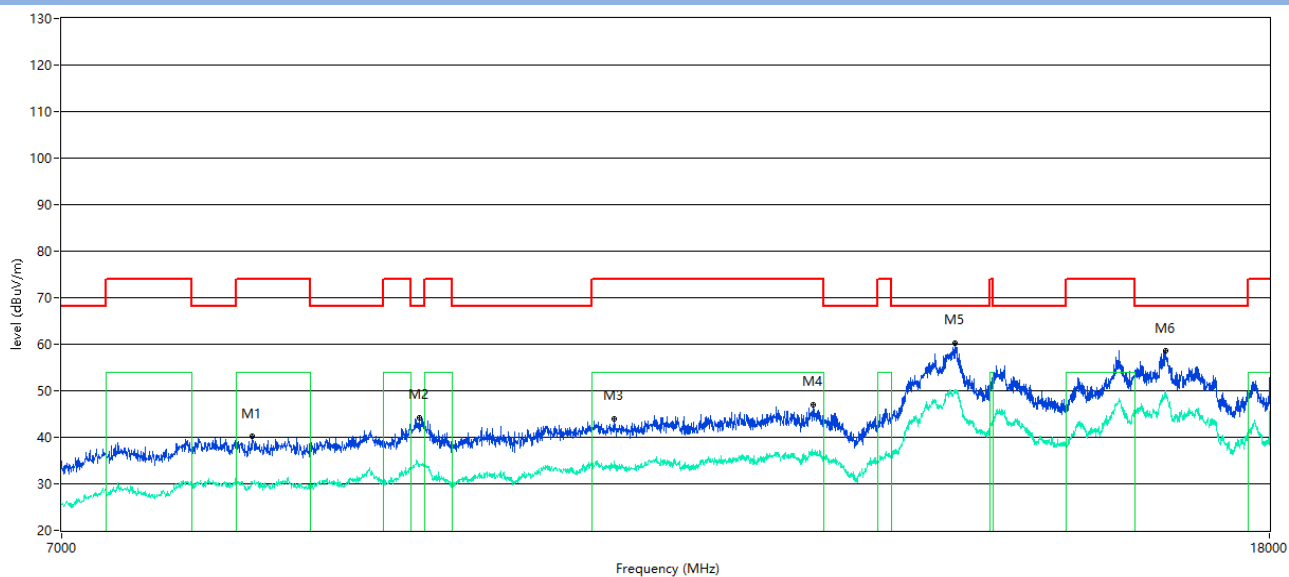
## 7 GHz to 18 GHz, ANT H Band I 802.11ac(HT40) Low channel

REmission Test case\_FCC\_Part 15E\_FCC 15.407(5G)\_7GHz-18GHz



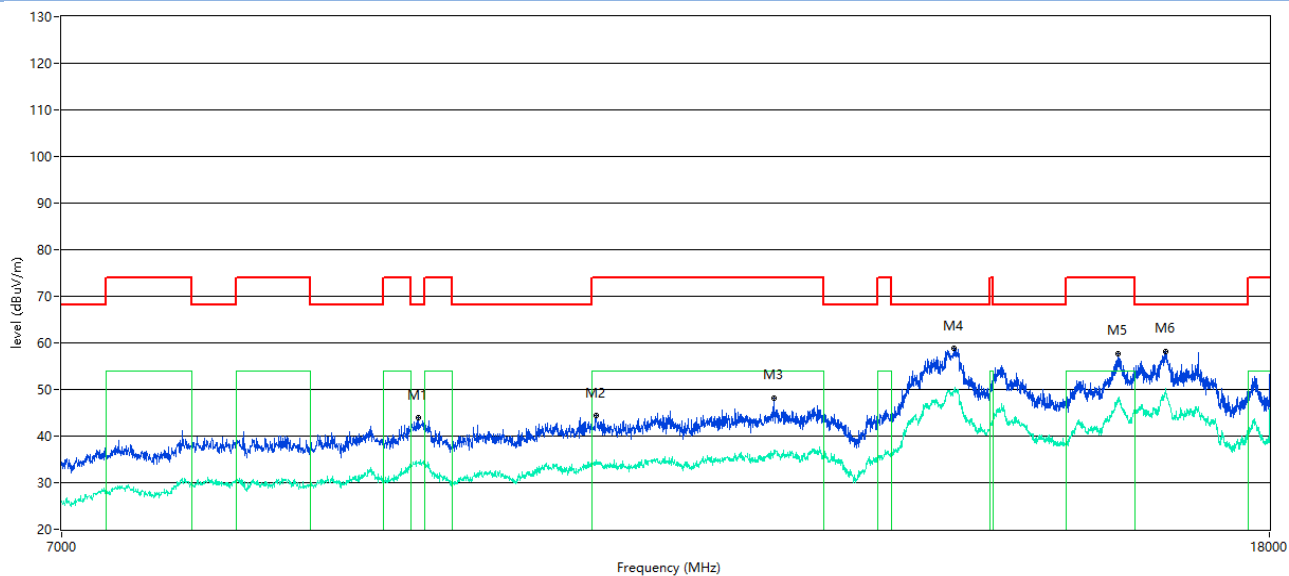
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 7888.028           | 40.16                     | --                          | 29.9                         | -8.75          | 68.2                 | --                   | --                   | 28.04          | 8300      | 100            | Horizontal | Pass    |
| 9295.676           | 44.24                     | --                          | 34.3                         | -4.02          | 68.2                 | --                   | --                   | 23.96          | 136.00    | 100            | Horizontal | Pass    |
| 11566.608          | 44.43                     | --                          | 34.9                         | -0.96          | 74.0                 | --                   | 54.0                 | 19.10          | 72.00     | 100            | Horizontal | Pass    |
| 14010.747          | 60.54                     | --                          | 49.2                         | 14.28          | 68.2                 | --                   | --                   | 7.66           | 80.00     | 100            | Horizontal | Pass    |
| 16003.999          | 57.30                     | --                          | 48.2                         | 10.62          | 74.0                 | --                   | 54.0                 | 5.80           | 12.00     | 100            | Horizontal | Pass    |
| 16592.352          | 58.01                     | --                          | 49.6                         | 11.91          | 68.2                 | --                   | --                   | 10.19          | 67.00     | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11ac(HT40) High channel



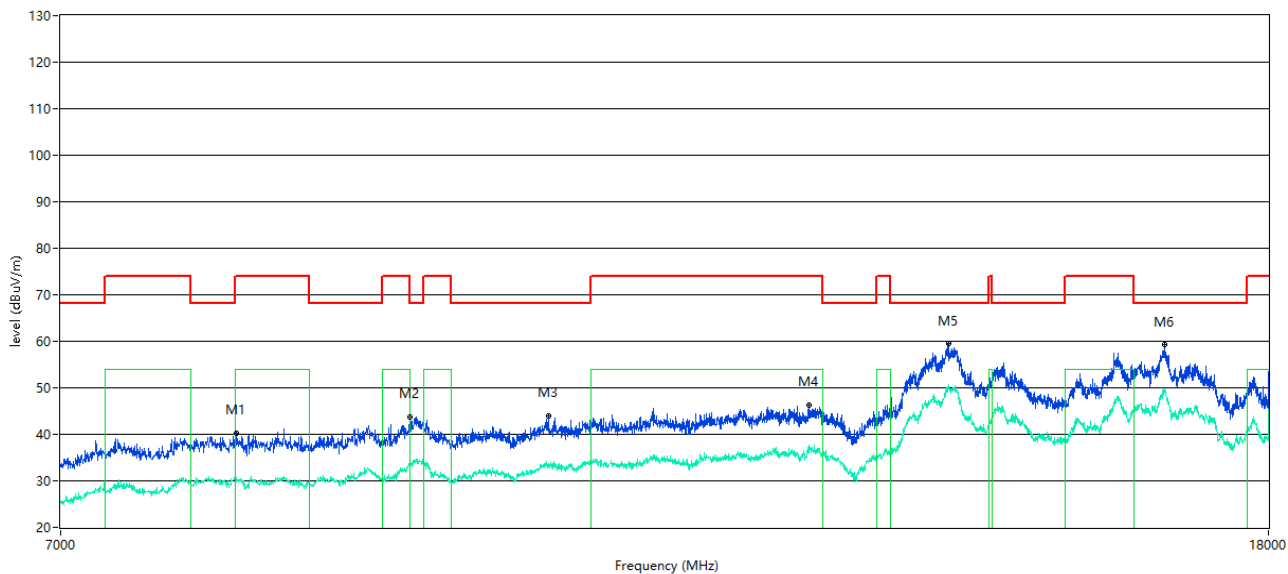
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8124.469           | 40.23                     | --                          | 30.4                         | -7.75          | 74.0                 | --                   | 54.0                 | 23.60          | 103.00    | 100            | Vertical | Pass    |
| 9259.935           | 44.30                     | --                          | 34.2                         | -4.28          | 68.2                 | --                   | --                   | 23.90          | 13.00     | 100            | Vertical | Pass    |
| 10785.804          | 44.00                     | --                          | 33.5                         | -1.73          | 74.0                 | --                   | 54.0                 | 20.50          | 26.00     | 100            | Vertical | Pass    |
| 12603.099          | 47.00                     | --                          | 36.8                         | 0.29           | 74.0                 | --                   | 54.0                 | 17.20          | 78.00     | 100            | Vertical | Pass    |
| 14076.731          | 60.30                     | --                          | 50.3                         | 14.65          | 68.2                 | --                   | --                   | 7.90           | 15.00     | 100            | Vertical | Pass    |
| 16592.352          | 58.58                     | --                          | 50.1                         | 11.91          | 68.2                 | --                   | --                   | 9.62           | 66.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11ac(HT40) High channel



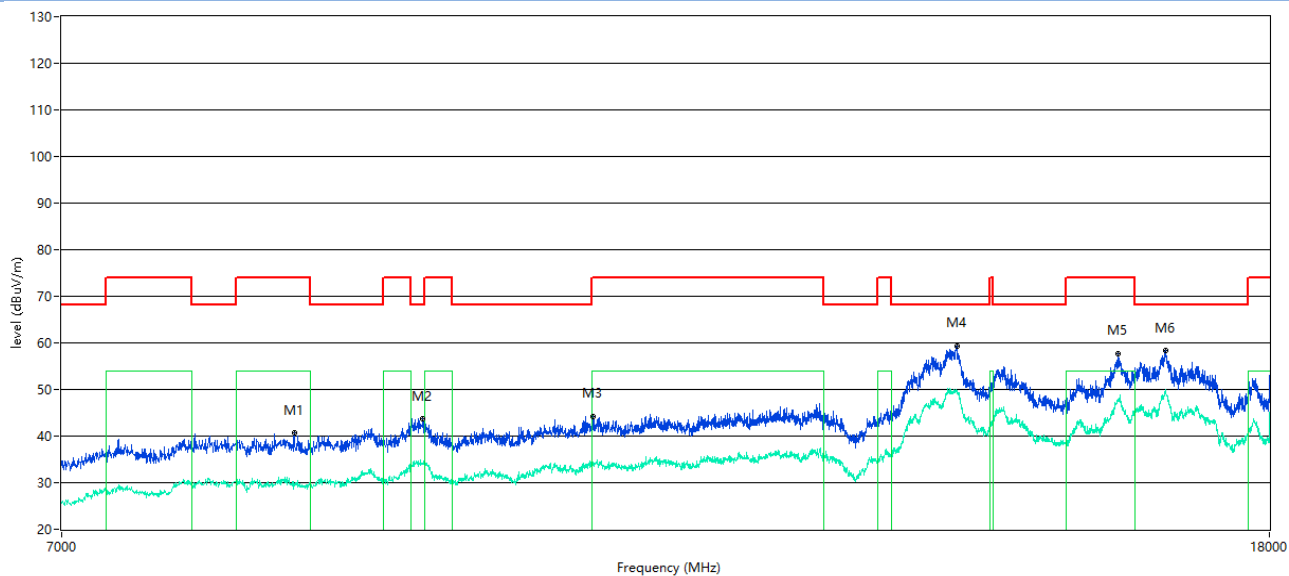
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 9254.436           | 43.94                     | --                          | 34.2                         | -4.32          | 68.2                 | --                   | --                   | 24.26          | 220.00    | 100            | Horizontal | Pass    |
| 10631.842          | 44.33                     | --                          | 34.8                         | -1.66          | 74.0                 | --                   | 54.0                 | 19.20          | 61.00     | 100            | Horizontal | Pass    |
| 12220.945          | 48.23                     | --                          | 37.0                         | -0.36          | 74.0                 | --                   | 54.0                 | 17.00          | 78.00     | 100            | Horizontal | Pass    |
| 14060.235          | 58.84                     | --                          | 49.8                         | 14.46          | 68.2                 | --                   | --                   | 9.36           | 332.00    | 100            | Horizontal | Pass    |
| 15984.754          | 57.67                     | --                          | 47.6                         | 10.16          | 74.0                 | --                   | 54.0                 | 6.40           | 8.00      | 100            | Horizontal | Pass    |
| 16595.101          | 58.18                     | --                          | 49.1                         | 12.00          | 68.2                 | --                   | --                   | 10.02          | 86.00     | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11ac(HT80) Low channel



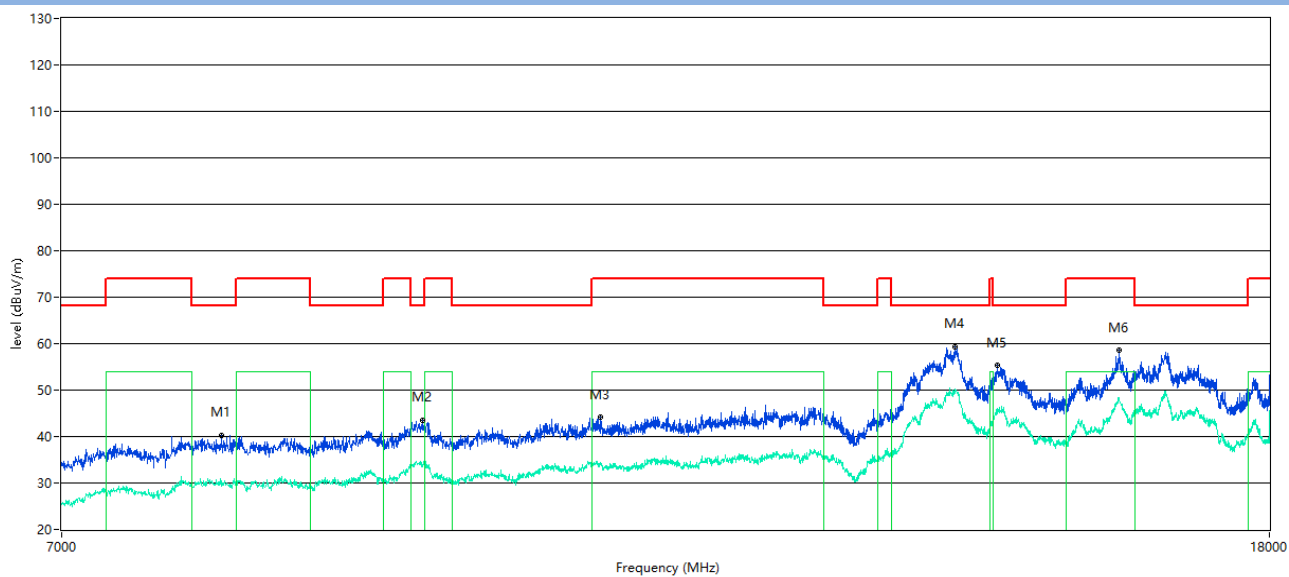
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8033.742           | 40.26                     | --                          | 30.3                         | -8.70          | 74.0                 | --                   | 54.0                 | 23.70          | 32.00     | 100            | Vertical | Pass    |
| 9199.450           | 43.79                     | --                          | 34.3                         | -4.83          | 74.0                 | --                   | 54.0                 | 19.70          | 58.00     | 100            | Vertical | Pass    |
| 10249.688          | 44.05                     | --                          | 33.7                         | -2.22          | 68.2                 | --                   | --                   | 24.15          | 20.00     | 100            | Vertical | Pass    |
| 12572.857          | 46.36                     | --                          | 36.6                         | 0.02           | 74.0                 | --                   | 54.0                 | 17.40          | 36.00     | 100            | Vertical | Pass    |
| 14013.497          | 59.49                     | --                          | 50.6                         | 14.26          | 68.2                 | --                   | --                   | 8.71           | 155.00    | 100            | Vertical | Pass    |
| 16597.851          | 59.24                     | --                          | 49.8                         | 12.09          | 68.2                 | --                   | --                   | 8.96           | 12.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11ac(HT80) Low channel



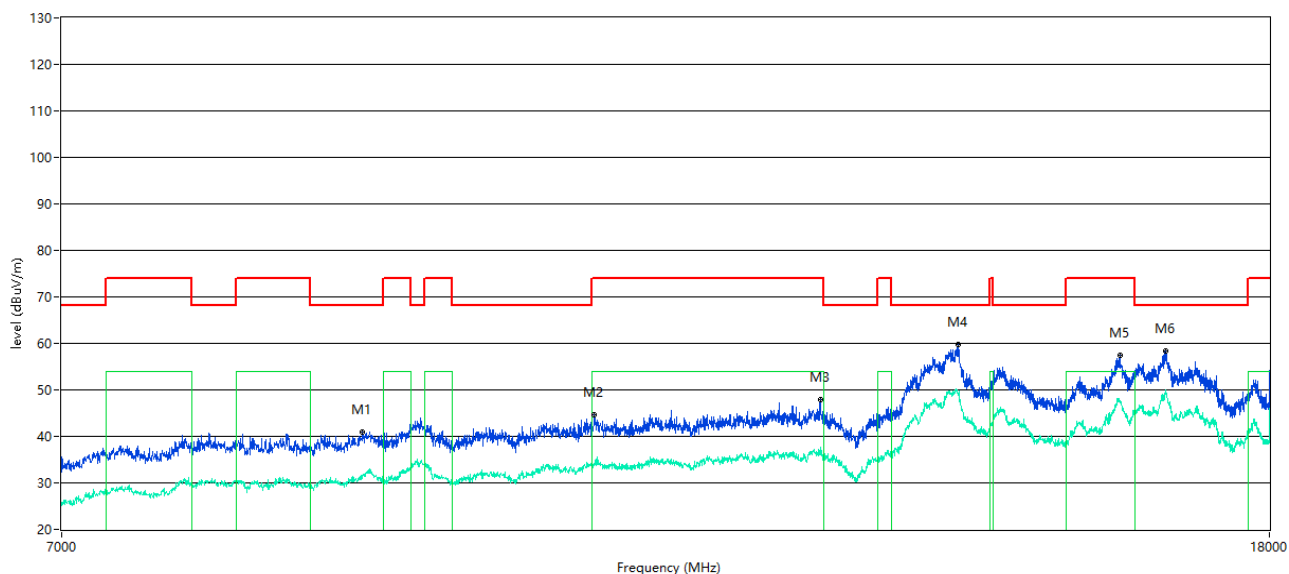
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8396.651           | 40.67                     | --                          | 29.8                         | -7.42          | 74.0                 | --                   | 54.0                 | 24.20          | 13.00     | 100            | Horizontal | Pass    |
| 9281.930           | 43.69                     | --                          | 33.9                         | -4.15          | 68.2                 | --                   | --                   | 24.51          | 1.00      | 100            | Horizontal | Pass    |
| 10604.349          | 44.29                     | --                          | 33.9                         | -1.67          | 74.0                 | --                   | 54.0                 | 20.10          | 14.00     | 100            | Horizontal | Pass    |
| 14104.224          | 59.33                     | --                          | 49.2                         | 14.55          | 68.2                 | --                   | --                   | 8.87           | 11.00     | 100            | Horizontal | Pass    |
| 15990.252          | 57.71                     | --                          | 47.9                         | 10.35          | 74.0                 | --                   | 54.0                 | 6.10           | 0.00      | 100            | Horizontal | Pass    |
| 16603.349          | 58.26                     | --                          | 49.1                         | 12.02          | 68.2                 | --                   | --                   | 9.94           | 12.00     | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band I 802.11ac(HT80) High channel



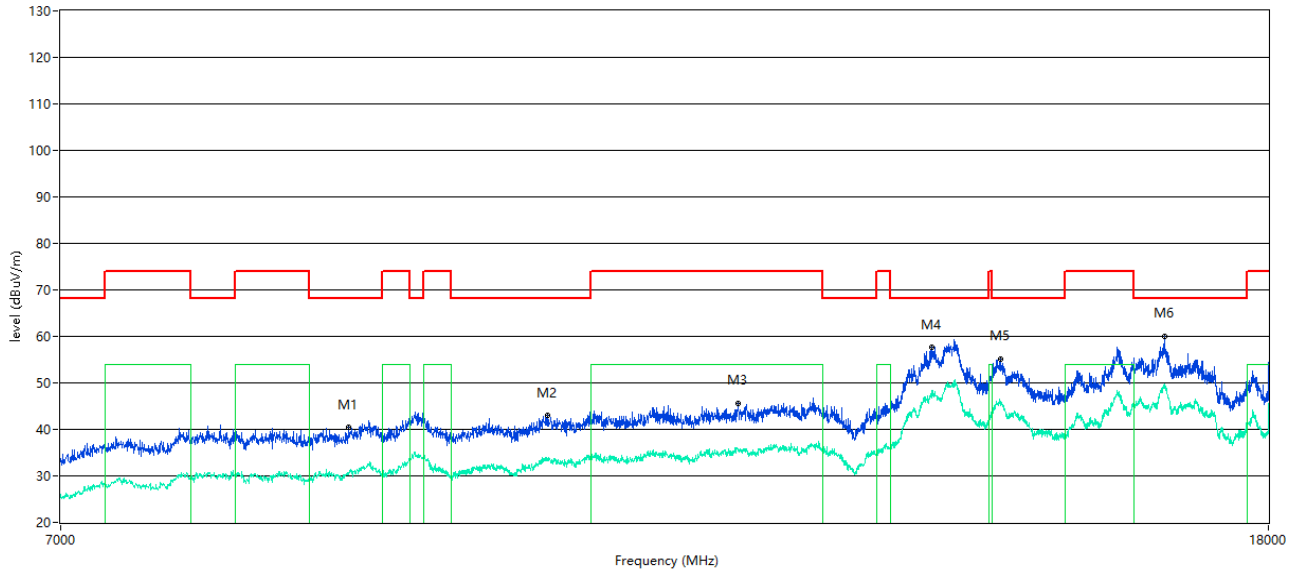
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 7934.766           | 40.29                     | --                          | 30.4                         | -9.09          | 68.2                 | --                   | --                   | 27.91          | 9.00      | 100            | Vertical | Pass    |
| 9279.180           | 43.54                     | --                          | 34.1                         | -4.15          | 68.2                 | --                   | --                   | 24.66          | 56.00     | 100            | Vertical | Pass    |
| 10670.332          | 44.13                     | --                          | 33.9                         | -1.76          | 74.0                 | --                   | 54.0                 | 20.10          | 180.00    | 100            | Vertical | Pass    |
| 14076.731          | 59.38                     | --                          | 49.8                         | 14.65          | 68.2                 | --                   | --                   | 8.82           | 3.00      | 100            | Vertical | Pass    |
| 14549.613          | 55.34                     | --                          | 44.9                         | 9.53           | 68.2                 | --                   | --                   | 12.86          | 11.00     | 100            | Vertical | Pass    |
| 16001.250          | 58.59                     | --                          | 48.1                         | 10.71          | 74.0                 | --                   | 54.0                 | 5.90           | 228.00    | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band I 802.11ac(HT80) High channel



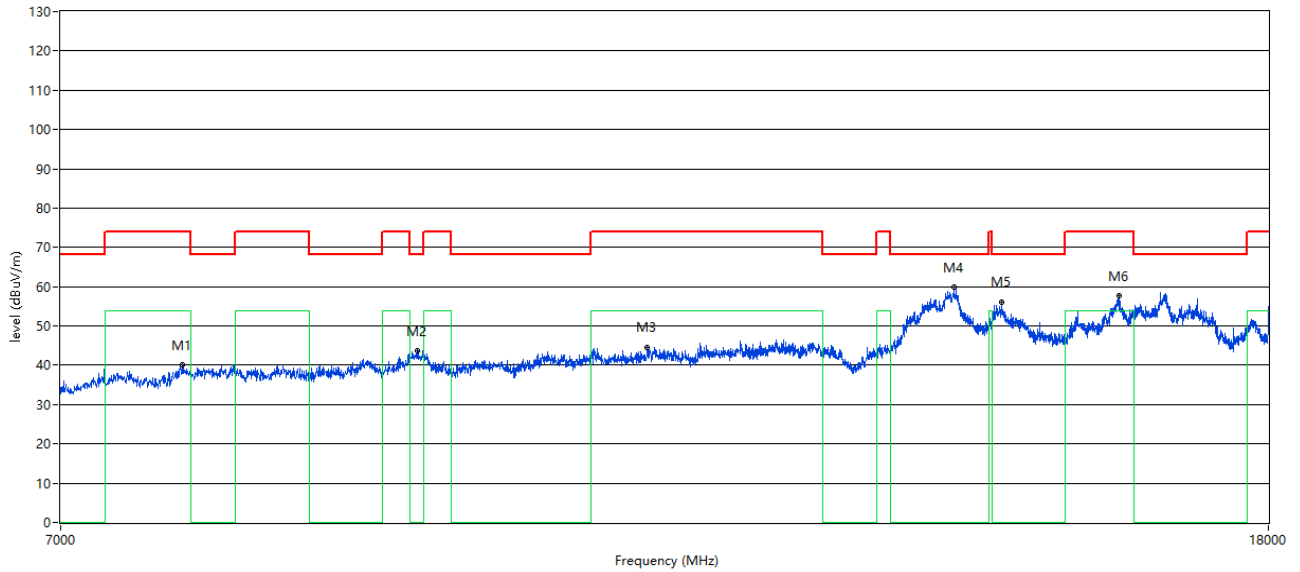
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8858.535           | 40.89                     | --                          | 31.5                         | -5.70          | 68.2                 | --                   | --                   | 27.31          | 48.00     | 100            | Horizontal | Pass    |
| 10618.095          | 44.54                     | --                          | 34.3                         | -1.62          | 74.0                 | --                   | 54.0                 | 19.70          | 65.00     | 100            | Horizontal | Pass    |
| 12674.581          | 47.86                     | --                          | 37.7                         | 0.12           | 74.0                 | --                   | 54.0                 | 16.30          | 135.00    | 100            | Horizontal | Pass    |
| 14106.973          | 59.68                     | --                          | 49.1                         | 14.37          | 68.2                 | --                   | --                   | 8.52           | 215.00    | 100            | Horizontal | Pass    |
| 16017.746          | 57.36                     | --                          | 47.5                         | 10.15          | 74.0                 | --                   | 54.0                 | 6.50           | 182.00    | 100            | Horizontal | Pass    |
| 16603.349          | 58.26                     | --                          | 49.4                         | 12.02          | 68.2                 | --                   | --                   | 9.94           | 0.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11a Low channel



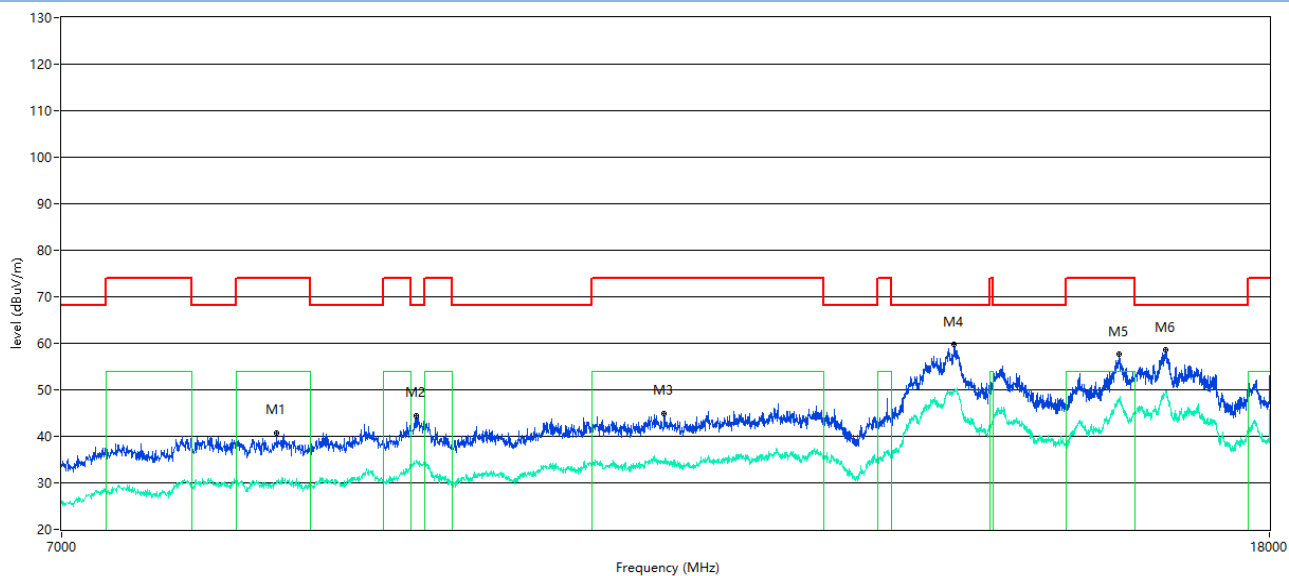
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8765.059           | 40.37                     | --                          | 30.4                         | -6.68          | 68.2                 | --                   | --                   | 27.83          | 9.00      | 100            | Vertical | Pass    |
| 10244.189          | 42.94                     | --                          | 33.4                         | -2.22          | 68.2                 | --                   | --                   | 25.26          | 9.00      | 100            | Vertical | Pass    |
| 11893.777          | 45.64                     | --                          | 35.7                         | -0.81          | 74.0                 | --                   | 54.0                 | 18.30          | 0.00      | 100            | Vertical | Pass    |
| 13837.541          | 57.77                     | --                          | 47.2                         | 11.31          | 68.2                 | --                   | --                   | 10.43          | 14.00     | 100            | Vertical | Pass    |
| 14593.602          | 55.13                     | --                          | 45.8                         | 10.33          | 68.2                 | --                   | --                   | 13.07          | 11.00     | 100            | Vertical | Pass    |
| 16592.352          | 60.11                     | --                          | 49.8                         | 11.91          | 68.2                 | --                   | --                   | 8.09           | 4.00      | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11a Low channel



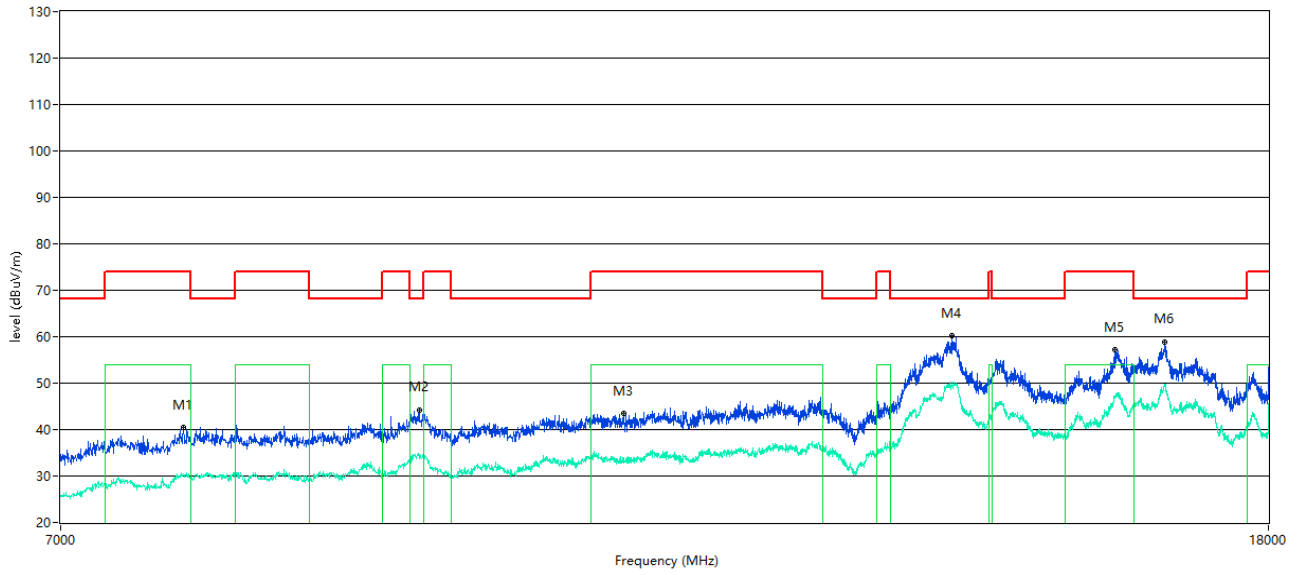
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 7701.075           | 40.03                     | --                          | 30.6                         | -7.75          | 74.0                 | --                   | 54.0                 | 23.40          | 103.00    | 100            | Horizontal | Pass    |
| 9251.687           | 43.78                     | --                          | 34.1                         | -4.36          | 68.2                 | --                   | --                   | 24.42          | 45.00     | 100            | Horizontal | Pass    |
| 11077.231          | 44.61                     | --                          | 34.7                         | -1.69          | 74.0                 | --                   | 54.0                 | 19.30          | 14.00     | 100            | Horizontal | Pass    |
| 14073.982          | 59.86                     | --                          | 49.9                         | 14.60          | 68.2                 | --                   | --                   | 8.34           | 301.00    | 100            | Horizontal | Pass    |
| 14607.348          | 56.19                     | --                          | 45.8                         | 10.19          | 68.2                 | --                   | --                   | 12.01          | 125.00    | 100            | Horizontal | Pass    |
| 16012.247          | 57.72                     | --                          | 48.2                         | 10.34          | 74.0                 | --                   | 54.0                 | 5.80           | 4.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11a Middle channel



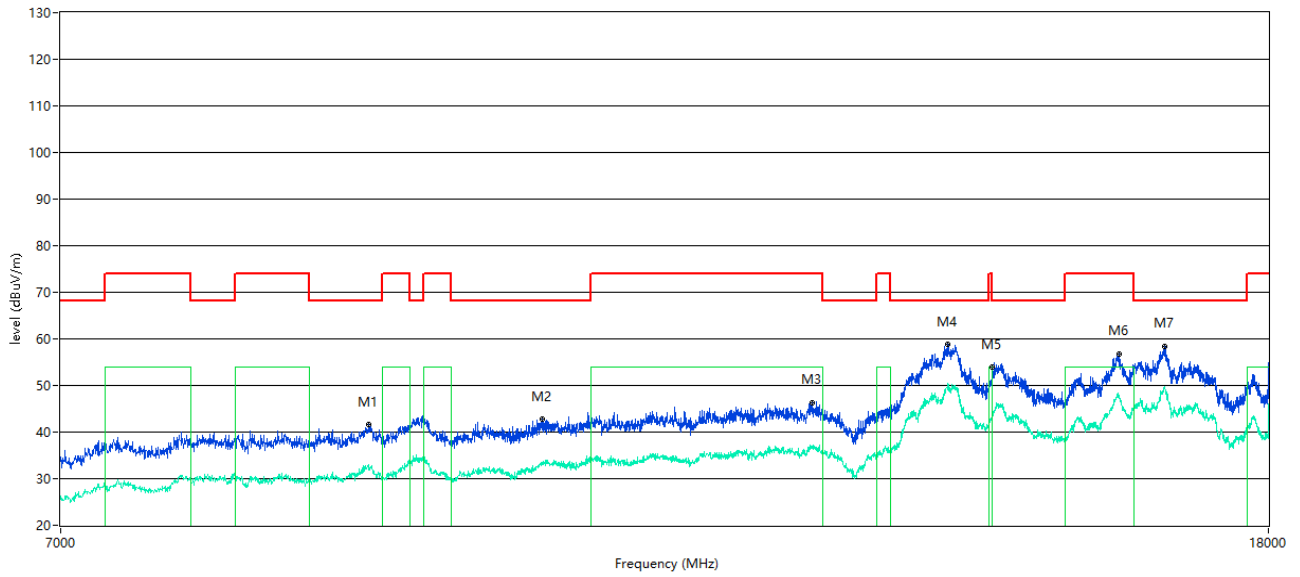
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8281.180           | 40.72                     | --                          | 30.5                         | -6.93          | 74.0                 | --                   | 54.0                 | 23.50          | 98.00     | 100            | Vertical | Pass    |
| 9240.690           | 44.49                     | --                          | 35.0                         | -4.57          | 68.2                 | --                   | --                   | 23.71          | 109.00    | 100            | Vertical | Pass    |
| 11211.947          | 44.97                     | --                          | 34.4                         | -2.01          | 74.0                 | --                   | 54.0                 | 19.60          | 210.00    | 100            | Vertical | Pass    |
| 14065.734          | 59.69                     | --                          | 49.8                         | 14.54          | 68.2                 | --                   | --                   | 8.51           | 181.00    | 100            | Vertical | Pass    |
| 16003.999          | 57.63                     | --                          | 47.7                         | 10.62          | 74.0                 | --                   | 54.0                 | 6.30           | 234.00    | 100            | Vertical | Pass    |
| 16603.349          | 58.53                     | --                          | 49.5                         | 12.02          | 68.2                 | --                   | --                   | 9.67           | 4.00      | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11a Middle channel



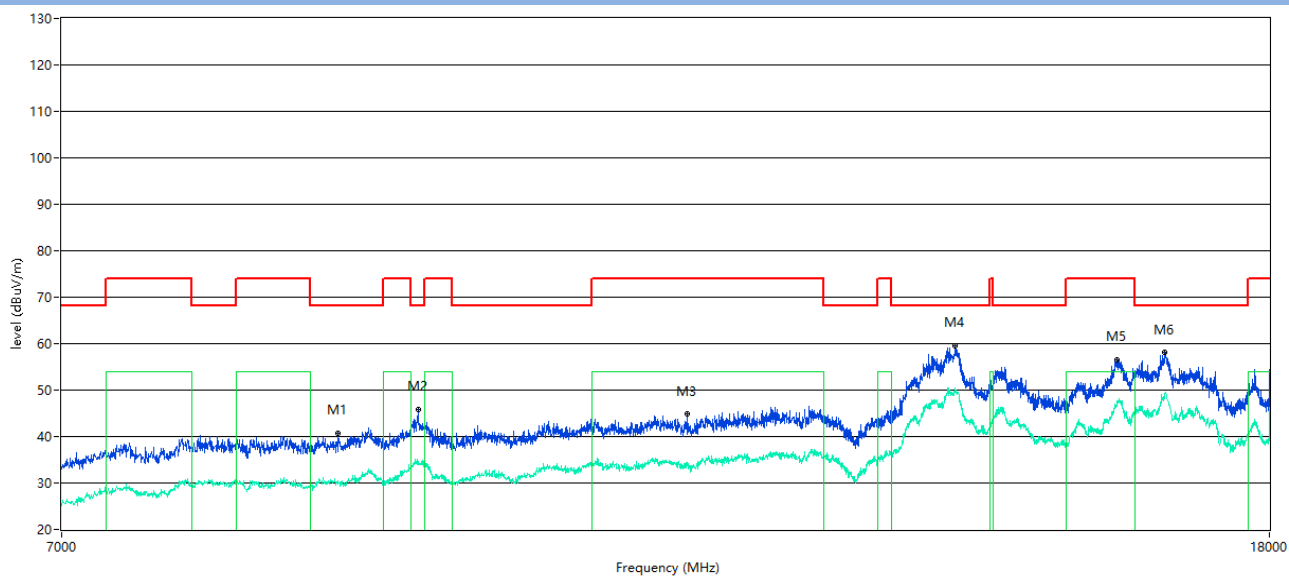
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 7703.824           | 40.50                     | --                          | 30.4                         | -7.74          | 74.0                 | --                   | 54.0                 | 23.60          | 102.00    | 100            | Horizontal | Pass    |
| 9265.434           | 44.19                     | --                          | 34.5                         | -4.17          | 68.2                 | --                   | --                   | 24.01          | 313.00    | 100            | Horizontal | Pass    |
| 10873.782          | 43.48                     | --                          | 33.9                         | -1.97          | 74.0                 | --                   | 54.0                 | 20.10          | 210.00    | 100            | Horizontal | Pass    |
| 14057.486          | 60.19                     | --                          | 50.3                         | 14.42          | 68.2                 | --                   | --                   | 8.01           | 15.00     | 100            | Horizontal | Pass    |
| 15962.759          | 57.12                     | --                          | 46.7                         | 9.34           | 74.0                 | --                   | 54.0                 | 7.30           | 88.00     | 100            | Horizontal | Pass    |
| 16595.101          | 58.91                     | --                          | 49.8                         | 12.00          | 68.2                 | --                   | --                   | 9.29           | 12.00     | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11a High channel



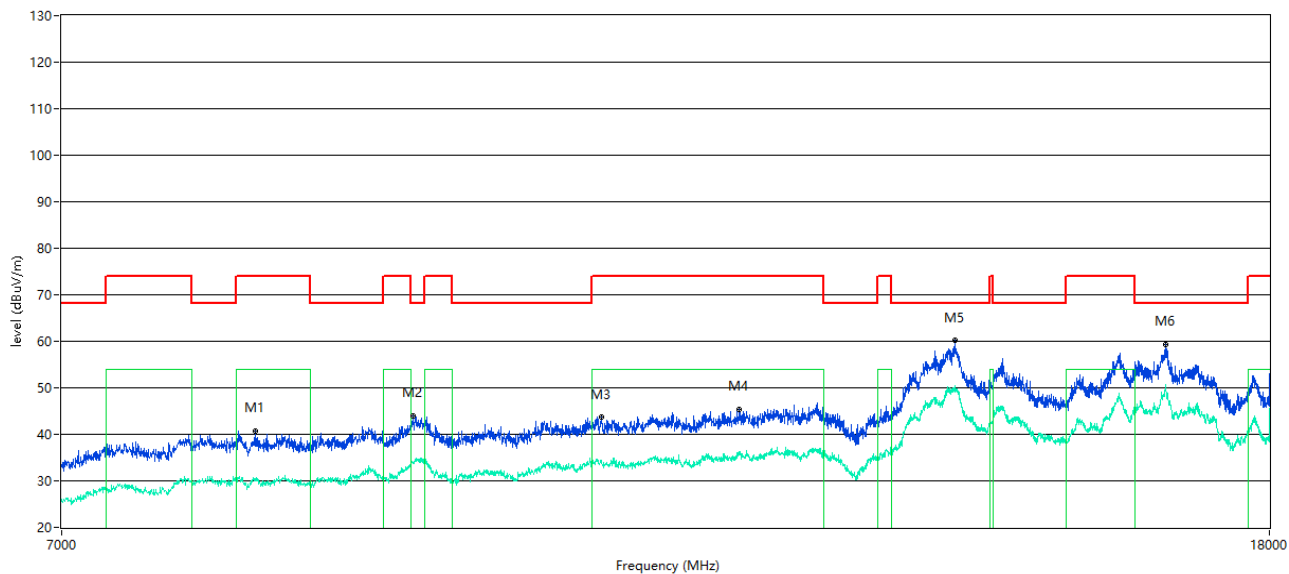
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8908.023           | 41.60                     | --                          | 31.9                         | -5.14          | 68.2                 | --                   | --                   | 26.60          | 51.00     | 100            | Vertical | Pass    |
| 10205.699          | 42.75                     | --                          | 33.2                         | -2.56          | 68.2                 | --                   | --                   | 25.45          | 223.00    | 100            | Vertical | Pass    |
| 12603.099          | 46.31                     | --                          | 36.5                         | 0.29           | 74.0                 | --                   | 54.0                 | 17.50          | 7.00      | 100            | Vertical | Pass    |
| 14002.499          | 58.79                     | --                          | 49.7                         | 14.20          | 68.2                 | --                   | --                   | 9.41           | 43.00     | 100            | Vertical | Pass    |
| 14530.367          | 54.87                     | --                          | 44.6                         | 9.10           | 68.2                 | --                   | --                   | 13.33          | 34.00     | 100            | Vertical | Pass    |
| 16014.996          | 56.86                     | --                          | 48.0                         | 10.25          | 74.0                 | --                   | 54.0                 | 6.00           | 88.00     | 100            | Vertical | Pass    |
| 16592.352          | 58.42                     | --                          | 49.2                         | 11.91          | 68.2                 | --                   | --                   | 9.78           | 8.00      | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11a High channel



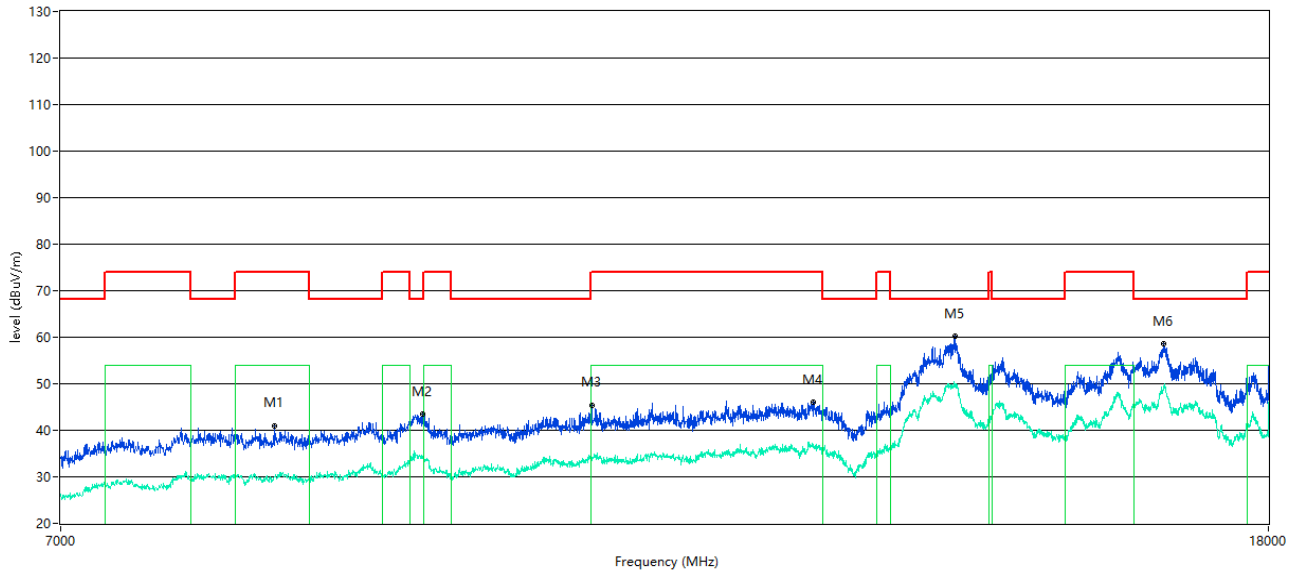
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8690.827           | 40.78                     | --                          | 30.3                         | -7.11          | 68.2                 | --                   | --                   | 27.42          | 13.00     | 100            | Horizontal | Pass    |
| 9248.938           | 45.87                     | --                          | 34.7                         | -4.42          | 68.2                 | --                   | --                   | 22.33          | 213.00    | 100            | Horizontal | Pass    |
| 11415.396          | 44.78                     | --                          | 34.5                         | -1.79          | 74.0                 | --                   | 54.0                 | 19.50          | 10.00     | 100            | Horizontal | Pass    |
| 14073.982          | 59.54                     | --                          | 50.4                         | 14.60          | 68.2                 | --                   | --                   | 8.66           | 81.00     | 100            | Horizontal | Pass    |
| 15973.757          | 56.56                     | --                          | 47.2                         | 9.83           | 74.0                 | --                   | 54.0                 | 6.80           | 34.00     | 100            | Horizontal | Pass    |
| 16584.104          | 58.06                     | --                          | 48.5                         | 11.73          | 68.2                 | --                   | --                   | 10.14          | 4.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11n(HT20) Low channel



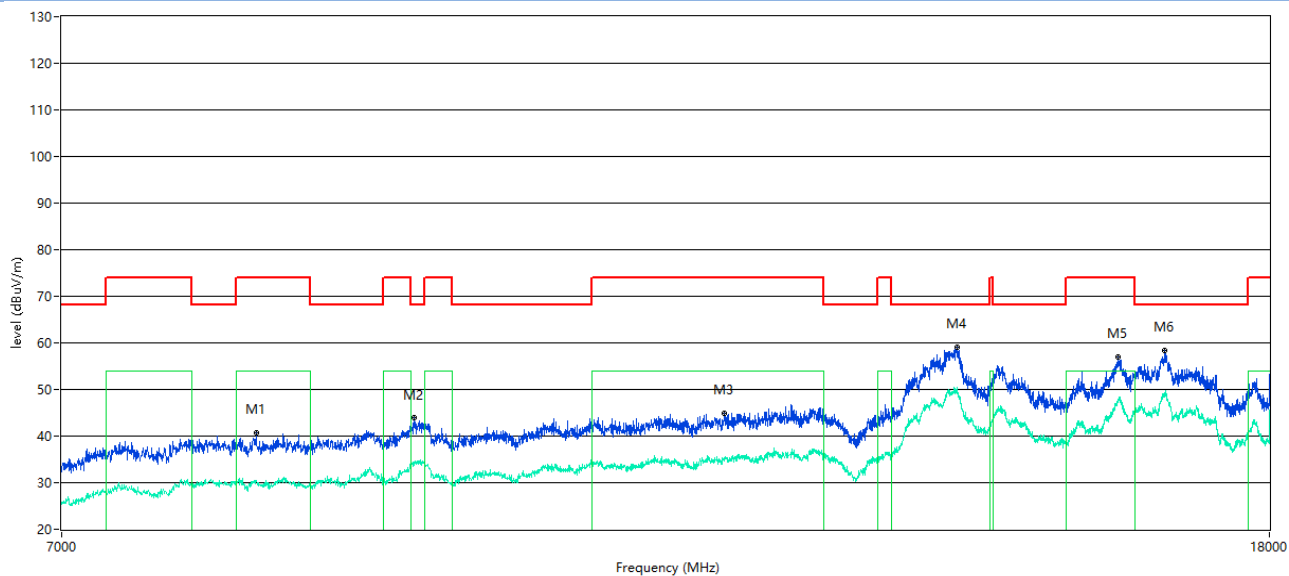
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8143.714           | 40.75                     | --                          | 30.0                         | -7.84          | 74.0                 | --                   | 54.0                 | 24.00          | 234.00    | 100            | Vertical | Pass    |
| 9215.946           | 43.97                     | --                          | 33.9                         | -4.68          | 68.2                 | --                   | --                   | 24.23          | 13.00     | 100            | Vertical | Pass    |
| 10673.082          | 43.70                     | --                          | 34.2                         | -1.73          | 74.0                 | --                   | 54.0                 | 19.80          | 28.00     | 100            | Vertical | Pass    |
| 11891.027          | 45.36                     | --                          | 35.9                         | -0.83          | 74.0                 | --                   | 54.0                 | 18.10          | 134.00    | 100            | Vertical | Pass    |
| 14073.982          | 60.19                     | --                          | 50.3                         | 14.60          | 68.2                 | --                   | --                   | 8.01           | 11.00     | 100            | Vertical | Pass    |
| 16597.851          | 59.38                     | --                          | 49.6                         | 12.09          | 68.2                 | --                   | --                   | 8.82           | 6.00      | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11n(HT20) Low channel



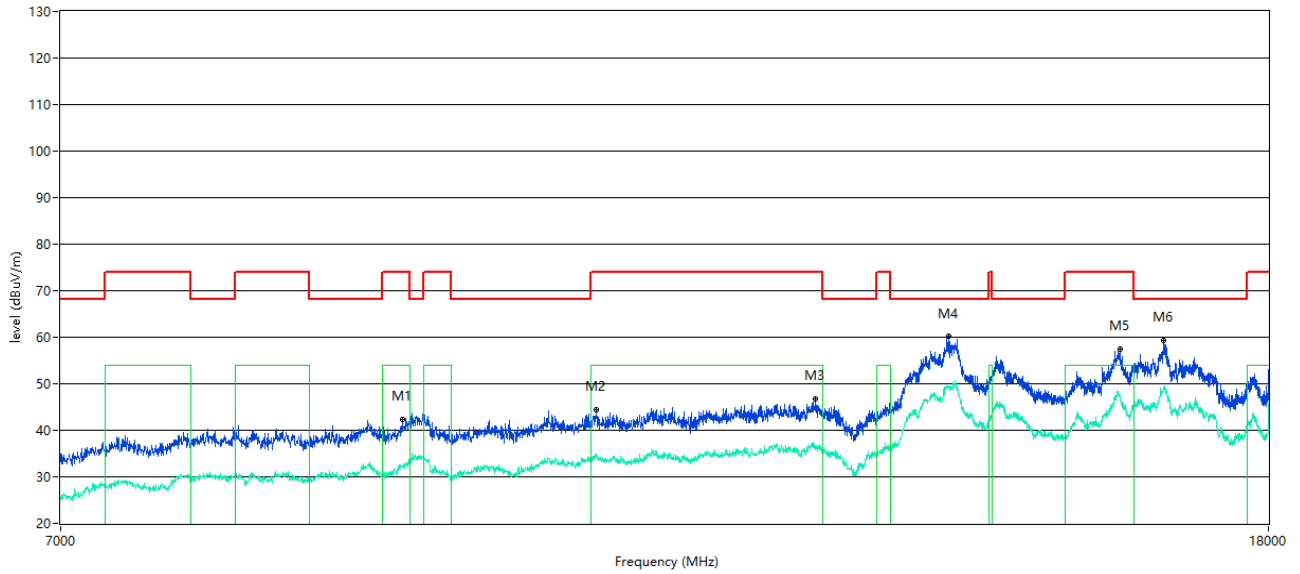
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8272.932           | 41.00                     | --                          | 30.0                         | -7.05          | 74.0                 | --                   | 54.0                 | 24.00          | 91.00     | 100            | Horizontal | Pass    |
| 9287.428           | 43.39                     | --                          | 34.5                         | -4.06          | 68.2                 | --                   | --                   | 24.81          | 28.00     | 100            | Horizontal | Pass    |
| 10604.349          | 45.46                     | --                          | 34.3                         | -1.67          | 74.0                 | --                   | 54.0                 | 19.70          | 66.00     | 100            | Horizontal | Pass    |
| 12605.849          | 45.95                     | --                          | 36.9                         | 0.29           | 74.0                 | --                   | 54.0                 | 17.10          | 185.00    | 100            | Horizontal | Pass    |
| 14084.979          | 60.20                     | --                          | 49.8                         | 14.84          | 68.2                 | --                   | --                   | 8.00           | 11.00     | 100            | Horizontal | Pass    |
| 16578.605          | 58.56                     | --                          | 49.0                         | 11.59          | 68.2                 | --                   | --                   | 9.64           | 38.00     | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11n(HT20) Middle channel



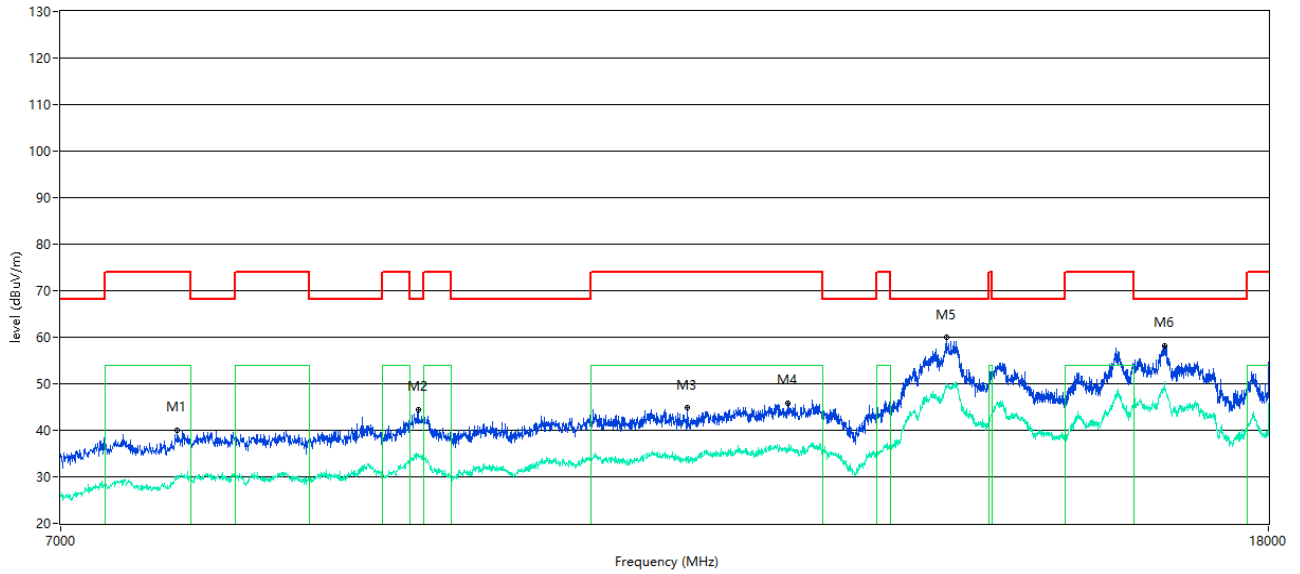
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8149.213           | 40.75                     | --                          | 30.2                         | -7.80          | 74.0                 | --                   | 54.0                 | 23.80          | 18.00     | 100            | Vertical | Pass    |
| 9218.695           | 43.87                     | --                          | 34.0                         | -4.68          | 68.2                 | --                   | --                   | 24.33          | 96.00     | 100            | Vertical | Pass    |
| 11750.812          | 44.95                     | --                          | 34.7                         | -1.05          | 74.0                 | --                   | 54.0                 | 19.30          | 226.00    | 100            | Vertical | Pass    |
| 14104.224          | 59.14                     | --                          | 49.2                         | 14.55          | 68.2                 | --                   | --                   | 9.06           | 3.00      | 100            | Vertical | Pass    |
| 15990.252          | 57.03                     | --                          | 47.9                         | 10.35          | 74.0                 | --                   | 54.0                 | 6.10           | 312.00    | 100            | Vertical | Pass    |
| 16581.355          | 58.38                     | --                          | 49.0                         | 11.66          | 68.2                 | --                   | --                   | 9.82           | 8.00      | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11n(HT20) Middle channel



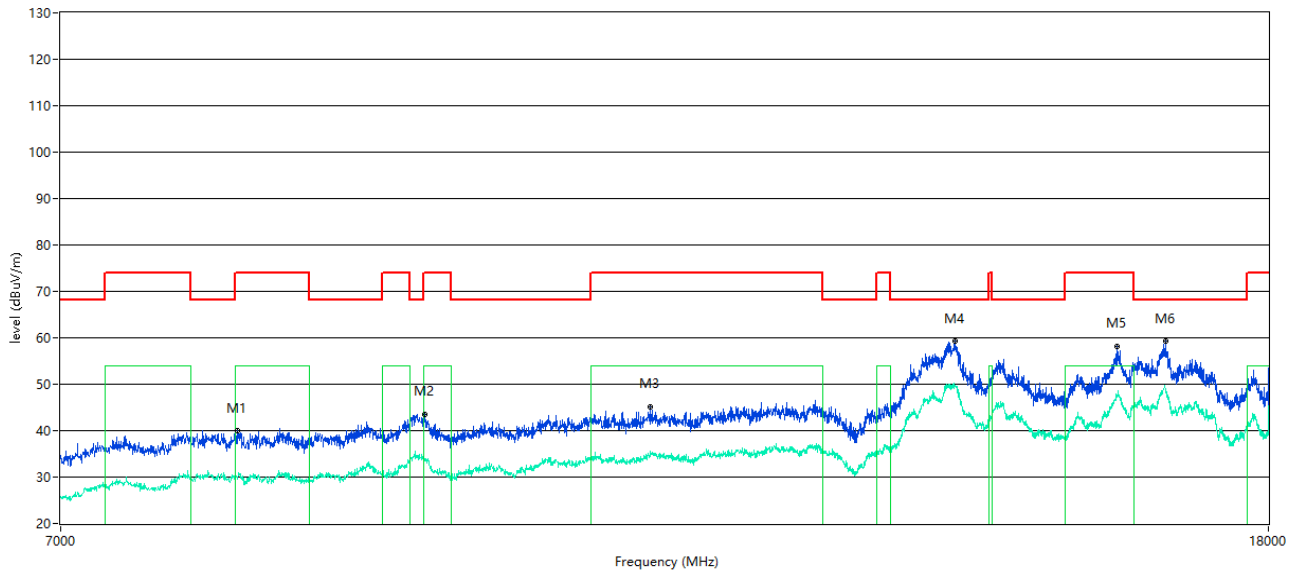
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT             | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|-----------------|---------|
| 9144.464           | 42.41                     | --                          | 32.2                         | -6.46          | 74.0                 | --                   | 54.0                 | 21.80          | 214.00    | 100            | Horizontal<br>I | Pass    |
| 10645.589          | 44.47                     | --                          | 34.5                         | -1.72          | 74.0                 | --                   | 54.0                 | 19.50          | 32.00     | 100            | Horizontal<br>I | Pass    |
| 12633.342          | 46.77                     | --                          | 36.4                         | 0.17           | 74.0                 | --                   | 54.0                 | 17.60          | 78.00     | 100            | Horizontal<br>I | Pass    |
| 14024.494          | 60.17                     | --                          | 49.2                         | 14.25          | 68.2                 | --                   | --                   | 8.03           | 321.00    | 100            | Horizontal<br>I | Pass    |
| 16031.492          | 57.48                     | --                          | 46.3                         | 9.74           | 74.0                 | --                   | 54.0                 | 7.70           | 14.00     | 100            | Horizontal<br>I | Pass    |
| 16589.603          | 59.33                     | --                          | 49.2                         | 11.84          | 68.2                 | --                   | --                   | 8.87           | 12.00     | 100            | Horizontal<br>I | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11n(HT20) High channel



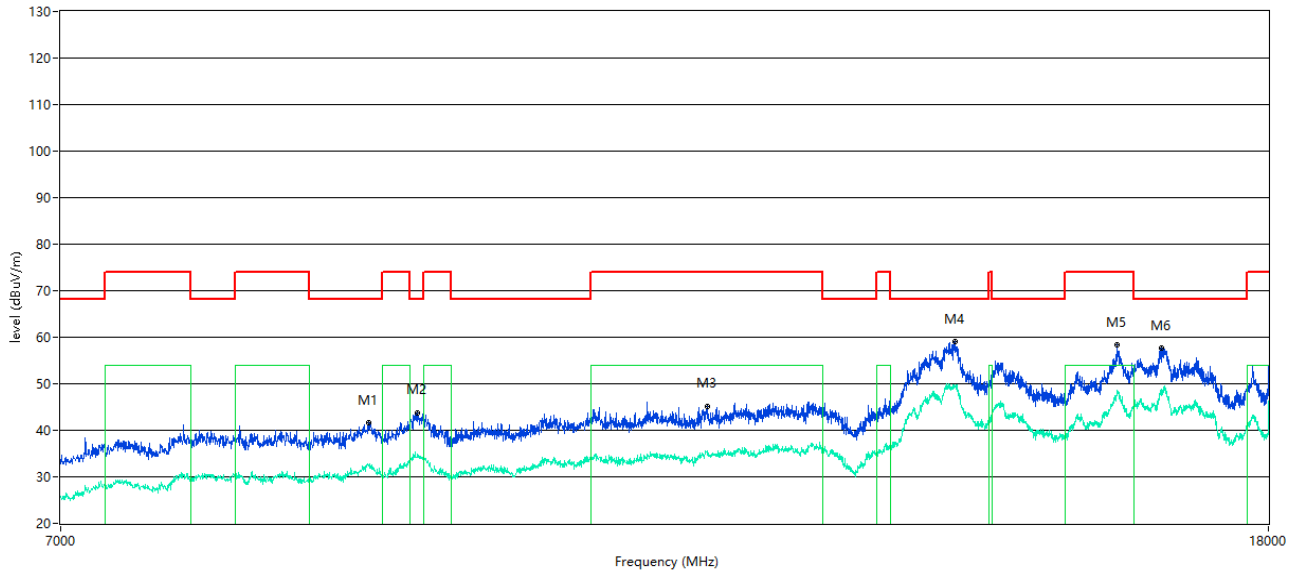
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 7668.083           | 40.09                     | --                          | 30.3                         | -8.38          | 74.0                 | --                   | 54.0                 | 23.70          | 91.00     | 100            | Vertical | Pass    |
| 9259.935           | 44.42                     | --                          | 34.5                         | -4.28          | 68.2                 | --                   | --                   | 23.78          | 6.00      | 100            | Vertical | Pass    |
| 11426.393          | 44.81                     | --                          | 34.2                         | -1.63          | 74.0                 | --                   | 54.0                 | 19.80          | 310.00    | 100            | Vertical | Pass    |
| 12361.160          | 45.91                     | --                          | 36.1                         | -0.68          | 74.0                 | --                   | 54.0                 | 17.90          | 214.00    | 100            | Vertical | Pass    |
| 13991.502          | 59.95                     | --                          | 49.6                         | 14.01          | 68.2                 | --                   | --                   | 8.25           | 11.00     | 100            | Vertical | Pass    |
| 16592.352          | 58.16                     | --                          | 49.4                         | 11.91          | 68.2                 | --                   | --                   | 10.04          | 185.00    | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11n(HT20) High channel



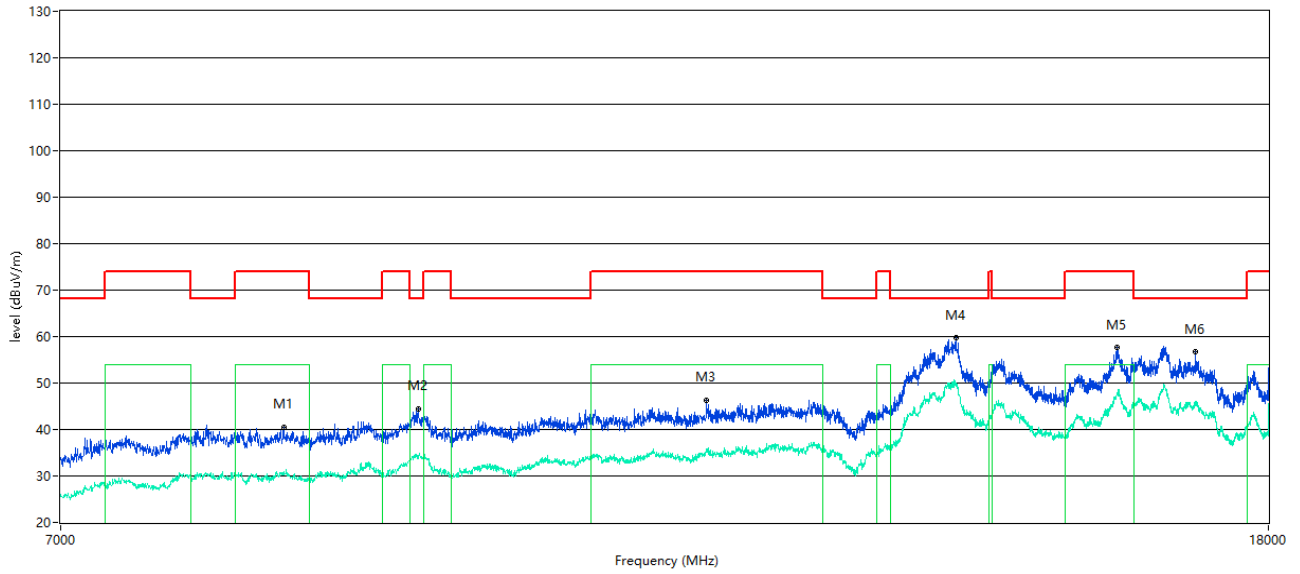
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8036.491           | 39.98                     | --                          | 30.0                         | -8.59          | 74.0                 | --                   | 54.0                 | 24.00          | 13.00     | 100            | Horizontal | Pass    |
| 9303.924           | 43.54                     | --                          | 33.7                         | -4.11          | 74.0                 | --                   | 54.0                 | 20.30          | 331.00    | 100            | Horizontal | Pass    |
| 11099.225          | 45.22                     | --                          | 35.6                         | -1.68          | 74.0                 | --                   | 54.0                 | 18.40          | 28.00     | 100            | Horizontal | Pass    |
| 14090.477          | 59.19                     | --                          | 49.8                         | 14.83          | 68.2                 | --                   | --                   | 9.01           | 7.00      | 100            | Horizontal | Pass    |
| 15995.751          | 58.10                     | --                          | 47.7                         | 10.57          | 74.0                 | --                   | 54.0                 | 6.30           | 89.00     | 100            | Horizontal | Pass    |
| 16608.848          | 59.24                     | --                          | 48.7                         | 11.82          | 68.2                 | --                   | --                   | 8.96           | 86.00     | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11ac(HT20) Low channel



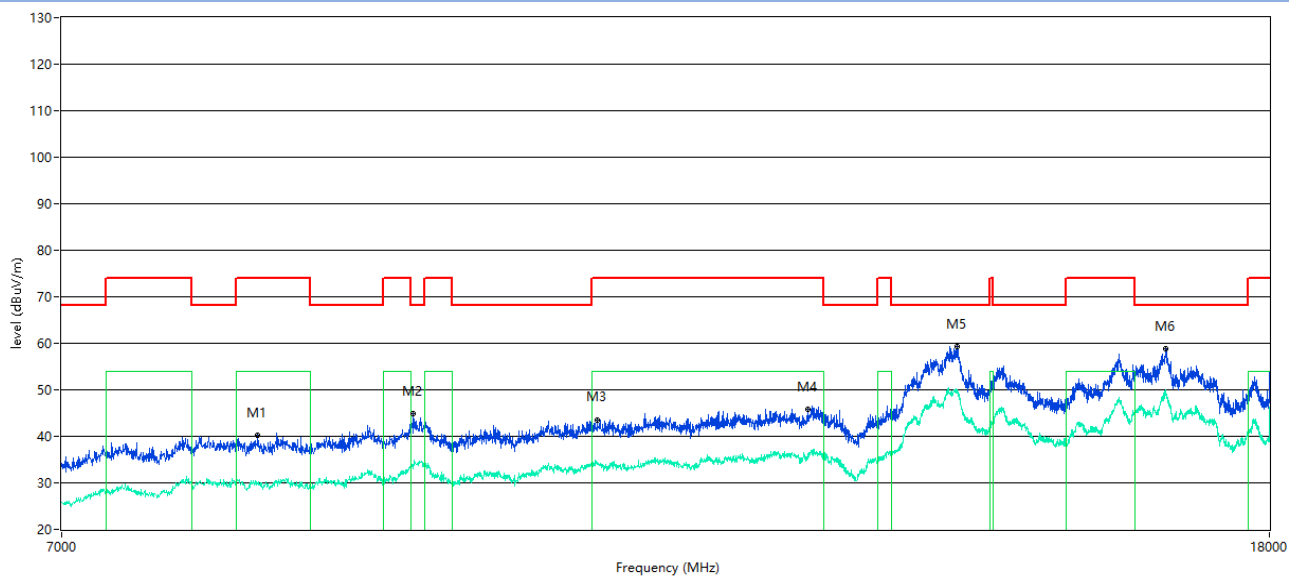
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8905.274           | 41.54                     | --                          | 32.6                         | -5.05          | 68.2                 | --                   | --                   | 26.66          | 1.00      | 100            | Vertical | Pass    |
| 9251.687           | 43.82                     | --                          | 34.9                         | -4.36          | 68.2                 | --                   | --                   | 24.38          | 66.00     | 100            | Vertical | Pass    |
| 11605.099          | 45.15                     | --                          | 35.4                         | -0.84          | 74.0                 | --                   | 54.0                 | 18.60          | 10.00     | 100            | Vertical | Pass    |
| 14087.728          | 59.03                     | --                          | 49.3                         | 14.85          | 68.2                 | --                   | --                   | 9.17           | 311.00    | 100            | Vertical | Pass    |
| 15984.754          | 58.34                     | --                          | 47.7                         | 10.16          | 74.0                 | --                   | 54.0                 | 6.30           | 67.00     | 100            | Vertical | Pass    |
| 16553.862          | 57.67                     | --                          | 48.3                         | 11.00          | 68.2                 | --                   | --                   | 10.53          | 12.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11ac(HT20) Low channel



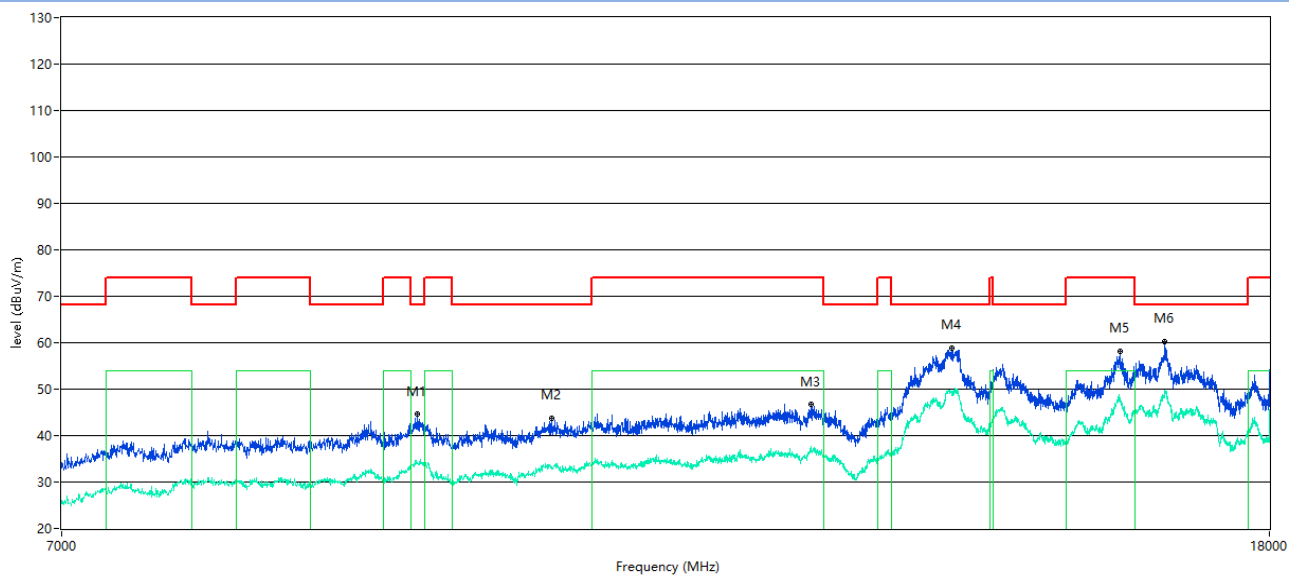
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8333.417           | 40.54                     | --                          | 30.8                         | -6.86          | 74.0                 | --                   | 54.0                 | 23.20          | 13.00     | 100            | Horizontal | Pass    |
| 9257.186           | 44.44                     | --                          | 34.4                         | -4.29          | 68.2                 | --                   | --                   | 23.76          | 16.00     | 100            | Horizontal | Pass    |
| 11596.851          | 46.21                     | --                          | 35.6                         | -0.88          | 74.0                 | --                   | 54.0                 | 18.40          | 14.00     | 100            | Horizontal | Pass    |
| 14095.976          | 59.71                     | --                          | 49.8                         | 14.77          | 68.2                 | --                   | --                   | 8.49           | 181.00    | 100            | Horizontal | Pass    |
| 15987.503          | 57.67                     | --                          | 47.8                         | 10.25          | 74.0                 | --                   | 54.0                 | 6.20           | 86.00     | 100            | Horizontal | Pass    |
| 16996.501          | 56.70                     | --                          | 46.0                         | 10.34          | 68.2                 | --                   | --                   | 11.50          | 0.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11ac(HT20) Middle channel



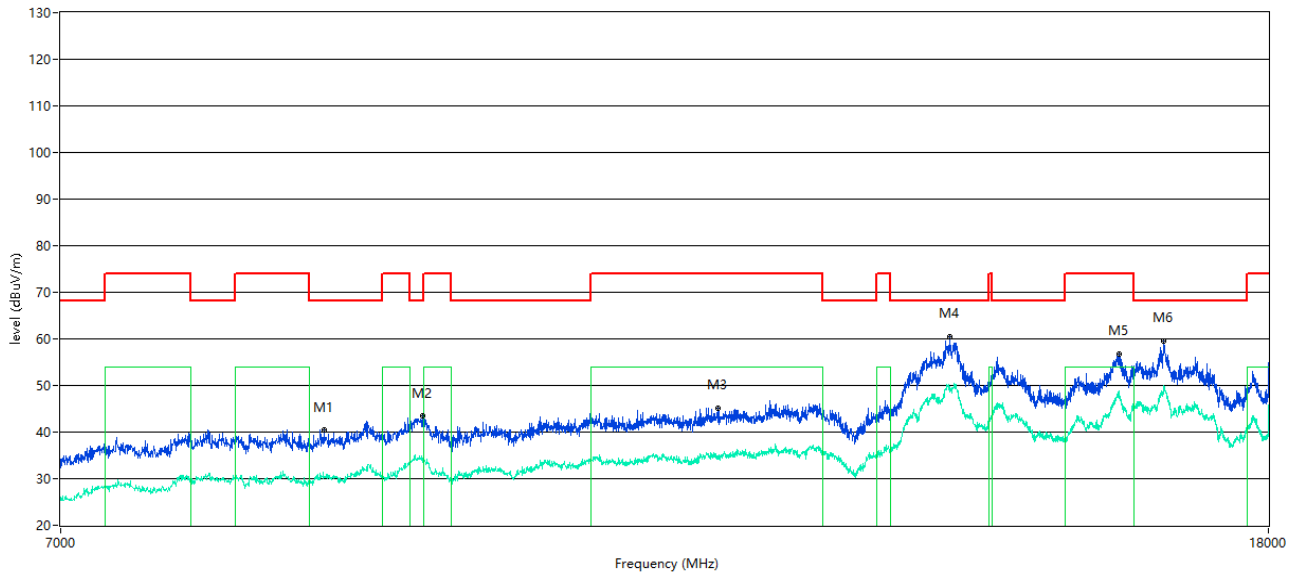
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8160.210           | 40.22                     | --                          | 29.9                         | -7.88          | 74.0                 | --                   | 54.0                 | 24.10          | 18.00     | 100            | Vertical | Pass    |
| 9215.946           | 44.79                     | --                          | 33.4                         | -4.68          | 68.2                 | --                   | --                   | 23.41          | 9.00      | 100            | Vertical | Pass    |
| 10640.090          | 43.51                     | --                          | 34.1                         | -1.65          | 74.0                 | --                   | 54.0                 | 19.90          | 164.00    | 100            | Vertical | Pass    |
| 12545.364          | 45.81                     | --                          | 35.2                         | -0.15          | 74.0                 | --                   | 54.0                 | 18.80          | 15.00     | 100            | Vertical | Pass    |
| 14098.725          | 59.25                     | --                          | 50.0                         | 14.80          | 68.2                 | --                   | --                   | 8.95           | 152.00    | 100            | Vertical | Pass    |
| 16595.101          | 58.78                     | --                          | 49.8                         | 12.00          | 68.2                 | --                   | --                   | 9.42           | 37.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11ac(HT20) Middle channel



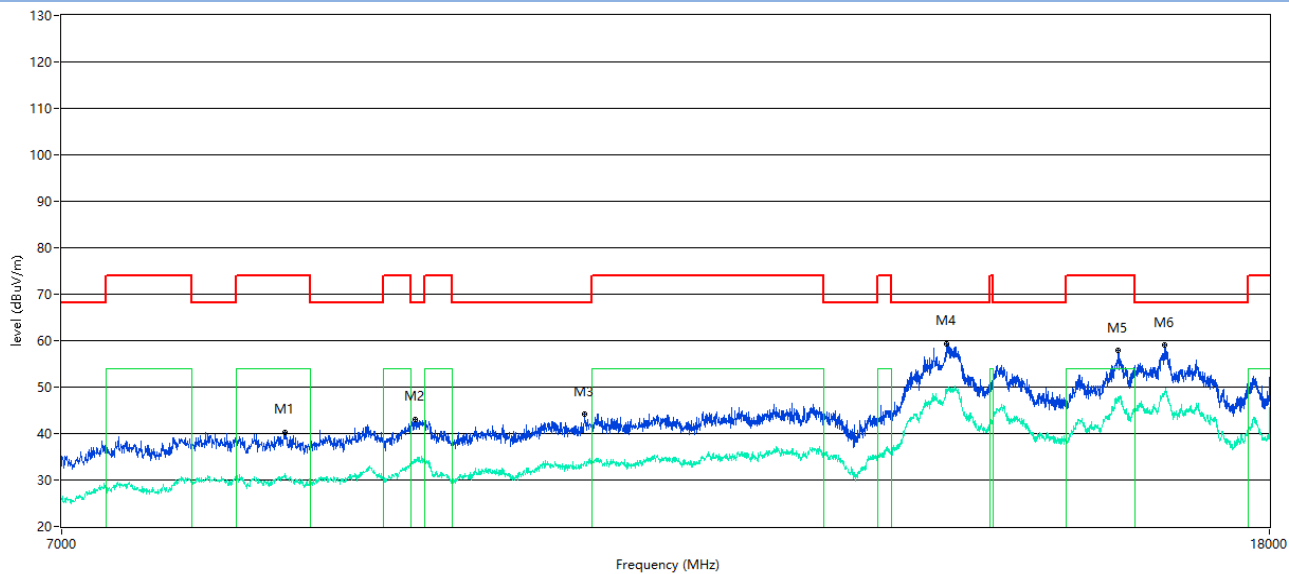
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 9246.188           | 44.61                     | --                          | 34.1                         | -4.49          | 68.2                 | --                   | --                   | 23.59          | 2.00      | 100            | Horizontal | Pass    |
| 10271.682          | 43.73                     | --                          | 32.8                         | -2.20          | 68.2                 | --                   | --                   | 24.47          | 14.00     | 100            | Horizontal | Pass    |
| 12581.105          | 46.67                     | --                          | 37.6                         | 0.14           | 74.0                 | --                   | 54.0                 | 16.40          | 121.00    | 100            | Horizontal | Pass    |
| 14040.990          | 58.95                     | --                          | 49.0                         | 14.29          | 68.2                 | --                   | --                   | 9.25           | 43.00     | 100            | Horizontal | Pass    |
| 16012.247          | 58.21                     | --                          | 48.0                         | 10.34          | 74.0                 | --                   | 54.0                 | 6.00           | 46.00     | 100            | Horizontal | Pass    |
| 16589.603          | 60.29                     | --                          | 49.7                         | 11.84          | 68.2                 | --                   | --                   | 7.91           | 246.00    | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11ac(HT20) High channel



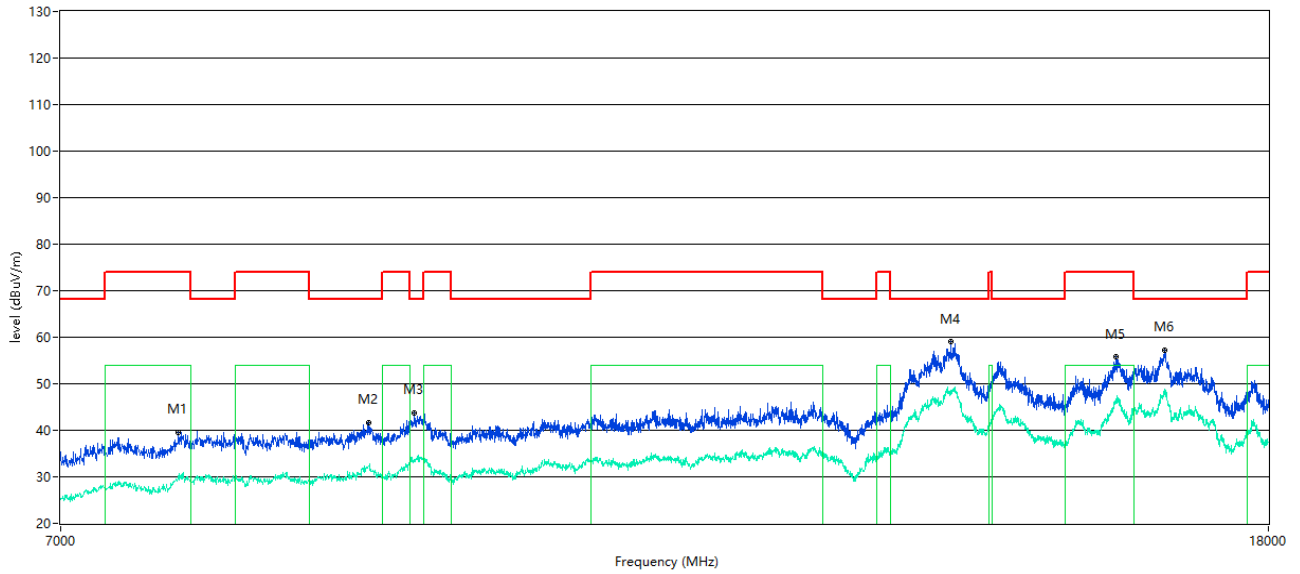
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8600.100           | 40.46                     | --                          | 30.2                         | -7.21          | 68.2                 | --                   | --                   | 27.74          | 103.00    | 100            | Vertical | Pass    |
| 9292.927           | 43.45                     | --                          | 33.9                         | -4.01          | 68.2                 | --                   | --                   | 24.75          | 1.00      | 100            | Vertical | Pass    |
| 11701.325          | 45.12                     | --                          | 34.3                         | -0.61          | 74.0                 | --                   | 54.0                 | 19.70          | 221.00    | 100            | Vertical | Pass    |
| 14035.491          | 60.58                     | --                          | 49.7                         | 14.27          | 68.2                 | --                   | --                   | 7.62           | 156.00    | 100            | Vertical | Pass    |
| 16012.247          | 56.79                     | --                          | 48.6                         | 10.34          | 74.0                 | --                   | 54.0                 | 5.40           | 48.00     | 100            | Vertical | Pass    |
| 16589.603          | 59.59                     | --                          | 49.9                         | 11.84          | 68.2                 | --                   | --                   | 8.61           | 15.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11ac(HT20) High channel



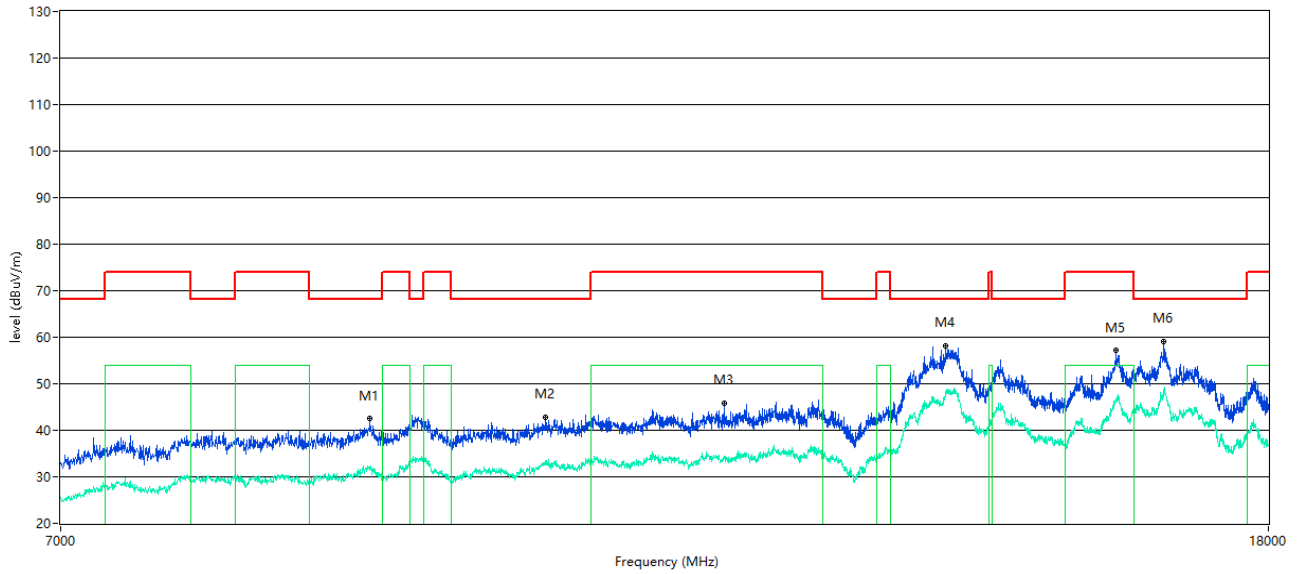
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8333.417           | 40.34                     | --                          | 31.4                         | -6.86          | 74.0                 | --                   | 54.0                 | 22.60          | 231.00    | 100            | Horizontal | Pass    |
| 9226.943           | 43.09                     | --                          | 33.8                         | -4.67          | 68.2                 | --                   | --                   | 25.11          | 51.00     | 100            | Horizontal | Pass    |
| 10532.867          | 44.28                     | --                          | 33.8                         | -2.41          | 68.2                 | --                   | --                   | 23.92          | 10.00     | 100            | Horizontal | Pass    |
| 13980.505          | 59.36                     | --                          | 49.1                         | 13.57          | 68.2                 | --                   | --                   | 8.84           | 73.00     | 100            | Horizontal | Pass    |
| 15993.002          | 57.83                     | --                          | 47.9                         | 10.46          | 74.0                 | --                   | 54.0                 | 6.10           | 8.00      | 100            | Horizontal | Pass    |
| 16589.603          | 59.04                     | --                          | 49.1                         | 11.84          | 68.2                 | --                   | --                   | 9.16           | 234.00    | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11n(HT40) Low channel



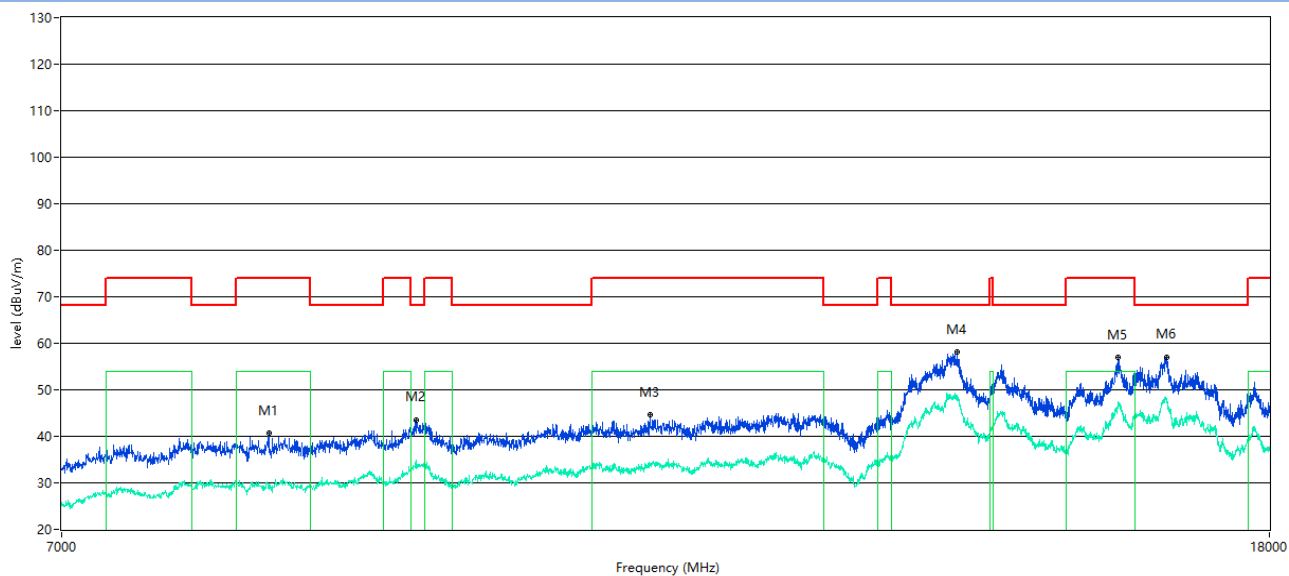
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 7673.582           | 39.65                     | --                          | 29.8                         | -8.22          | 74.0                 | --                   | 54.0                 | 24.20          | 127.00    | 100            | Vertical | Pass    |
| 8908.023           | 41.69                     | --                          | 32.3                         | -5.14          | 68.2                 | --                   | --                   | 26.51          | 282.00    | 100            | Vertical | Pass    |
| 9232.442           | 43.80                     | --                          | 33.8                         | -4.61          | 68.2                 | --                   | --                   | 24.40          | 33.00     | 100            | Vertical | Pass    |
| 14043.739          | 59.18                     | --                          | 48.5                         | 14.32          | 68.2                 | --                   | --                   | 9.02           | 217.00    | 100            | Vertical | Pass    |
| 15979.255          | 55.72                     | --                          | 46.8                         | 10.02          | 74.0                 | --                   | 54.0                 | 7.20           | 15.00     | 100            | Vertical | Pass    |
| 16597.851          | 57.28                     | --                          | 48.1                         | 12.09          | 68.2                 | --                   | --                   | 10.92          | 91.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11n(HT40) Low channel



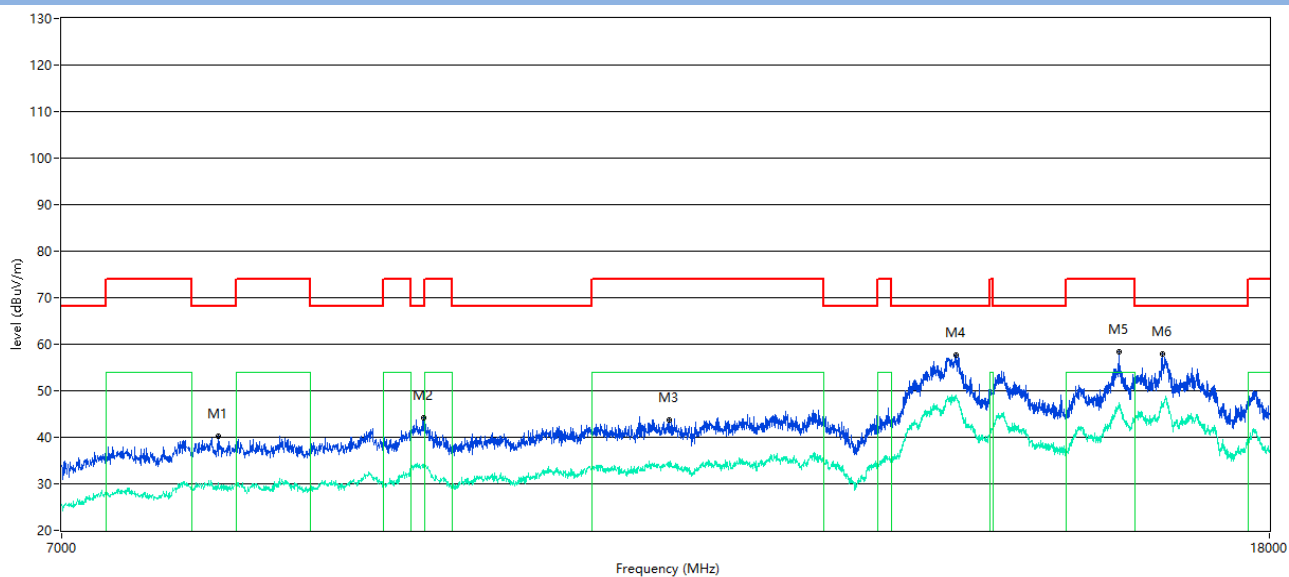
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8916.271           | 42.60                     | --                          | 31.4                         | -5.24          | 68.2                 | --                   | --                   | 25.60          | 213.00    | 100            | Horizontal | Pass    |
| 10230.442          | 42.82                     | --                          | 33.4                         | -2.34          | 68.2                 | --                   | --                   | 25.38          | 100.00    | 100            | Horizontal | Pass    |
| 11759.060          | 45.71                     | --                          | 34.5                         | -1.07          | 74.0                 | --                   | 54.0                 | 19.50          | 258.00    | 100            | Horizontal | Pass    |
| 13983.254          | 58.17                     | --                          | 48.4                         | 13.70          | 68.2                 | --                   | --                   | 10.03          | 64.00     | 100            | Horizontal | Pass    |
| 15979.255          | 57.27                     | --                          | 46.7                         | 10.02          | 74.0                 | --                   | 54.0                 | 7.30           | 261.00    | 100            | Horizontal | Pass    |
| 16589.603          | 59.13                     | --                          | 48.4                         | 11.84          | 68.2                 | --                   | --                   | 9.07           | 190.00    | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11n(HT40) High channel



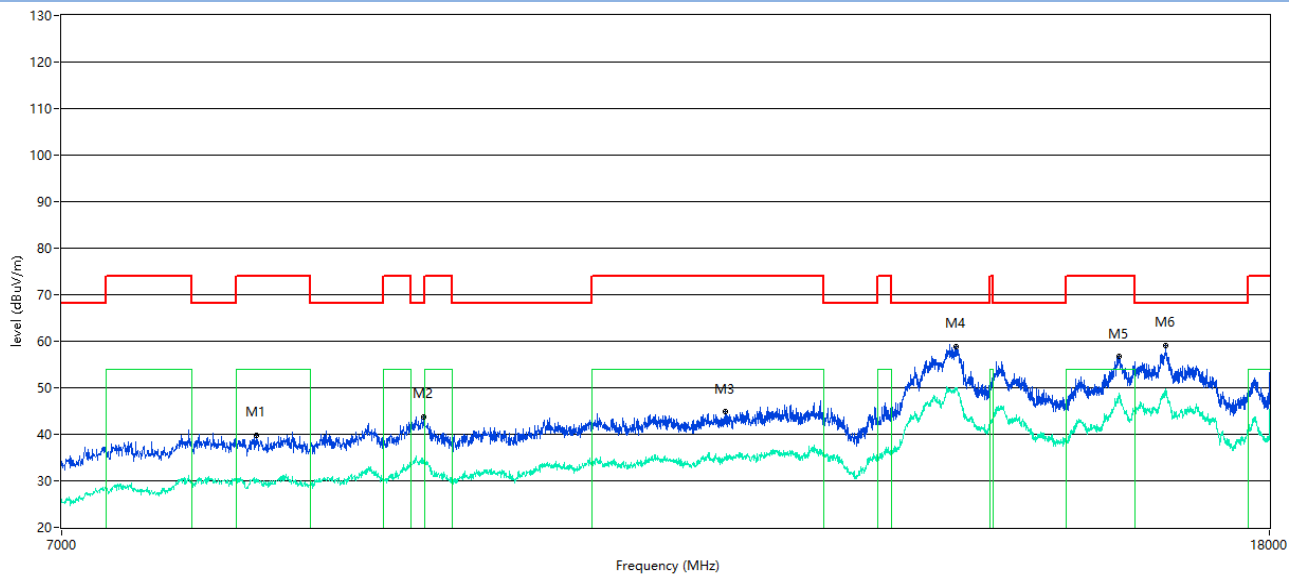
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8231.692           | 40.63                     | --                          | 29.7                         | -7.56          | 74.0                 | --                   | 54.0                 | 24.30          | 15.00     | 100            | Vertical | Pass    |
| 9237.941           | 43.60                     | --                          | 34.7                         | -4.58          | 68.2                 | --                   | --                   | 24.60          | 0.00      | 100            | Vertical | Pass    |
| 11088.228          | 44.64                     | --                          | 33.7                         | -1.72          | 74.0                 | --                   | 54.0                 | 20.30          | 194.00    | 100            | Vertical | Pass    |
| 14101.475          | 58.03                     | --                          | 48.5                         | 14.72          | 68.2                 | --                   | --                   | 10.17          | 38.00     | 100            | Vertical | Pass    |
| 15990.252          | 56.95                     | --                          | 47.4                         | 10.35          | 74.0                 | --                   | 54.0                 | 6.60           | 20.00     | 100            | Vertical | Pass    |
| 16606.098          | 57.03                     | --                          | 47.8                         | 11.92          | 68.2                 | --                   | --                   | 11.17          | 4.00      | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11n(HT40) High channel



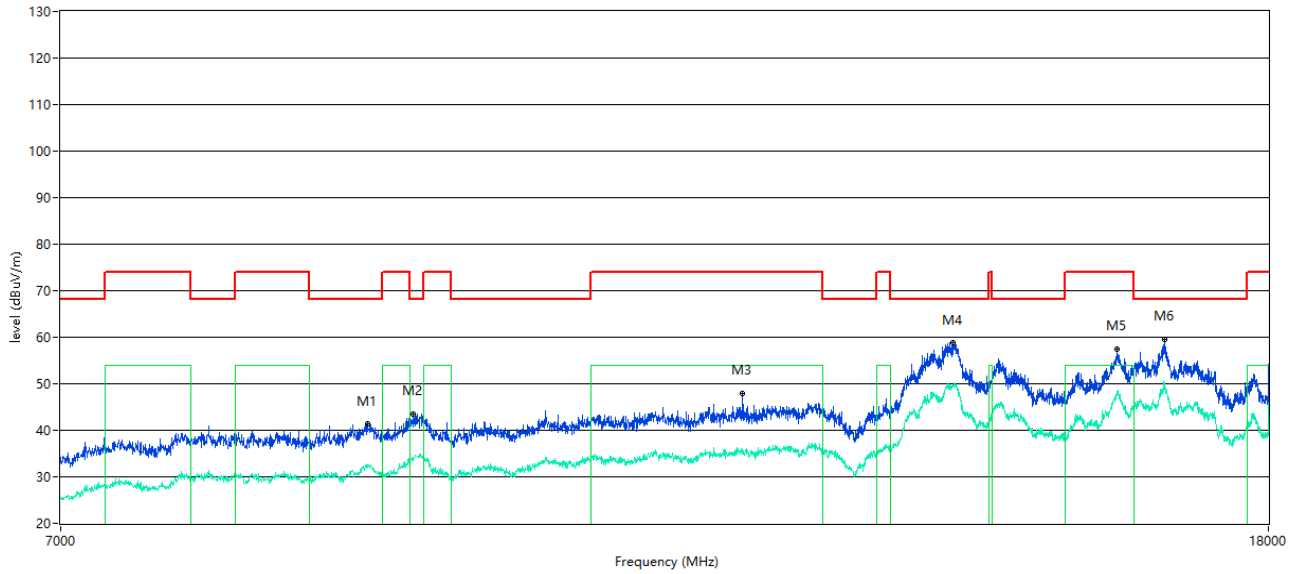
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 7912.772           | 40.24                     | --                          | 30.3                         | -8.96          | 68.2                 | --                   | --                   | 27.96          | 167.00    | 100            | Horizontal | Pass    |
| 9290.177           | 44.12                     | --                          | 34.2                         | -4.02          | 68.2                 | --                   | --                   | 24.08          | 306.00    | 100            | Horizontal | Pass    |
| 11261.435          | 43.81                     | --                          | 33.5                         | -1.74          | 74.0                 | --                   | 54.0                 | 20.50          | 340.00    | 100            | Horizontal | Pass    |
| 14090.477          | 57.57                     | --                          | 48.8                         | 14.83          | 68.2                 | --                   | --                   | 10.63          | 137.00    | 100            | Horizontal | Pass    |
| 15998.500          | 58.42                     | --                          | 47.0                         | 10.69          | 74.0                 | --                   | 54.0                 | 7.00           | 265.00    | 100            | Horizontal | Pass    |
| 16559.360          | 57.89                     | --                          | 46.6                         | 11.18          | 68.2                 | --                   | --                   | 10.31          | 235.00    | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11ac(HT40) Low channel



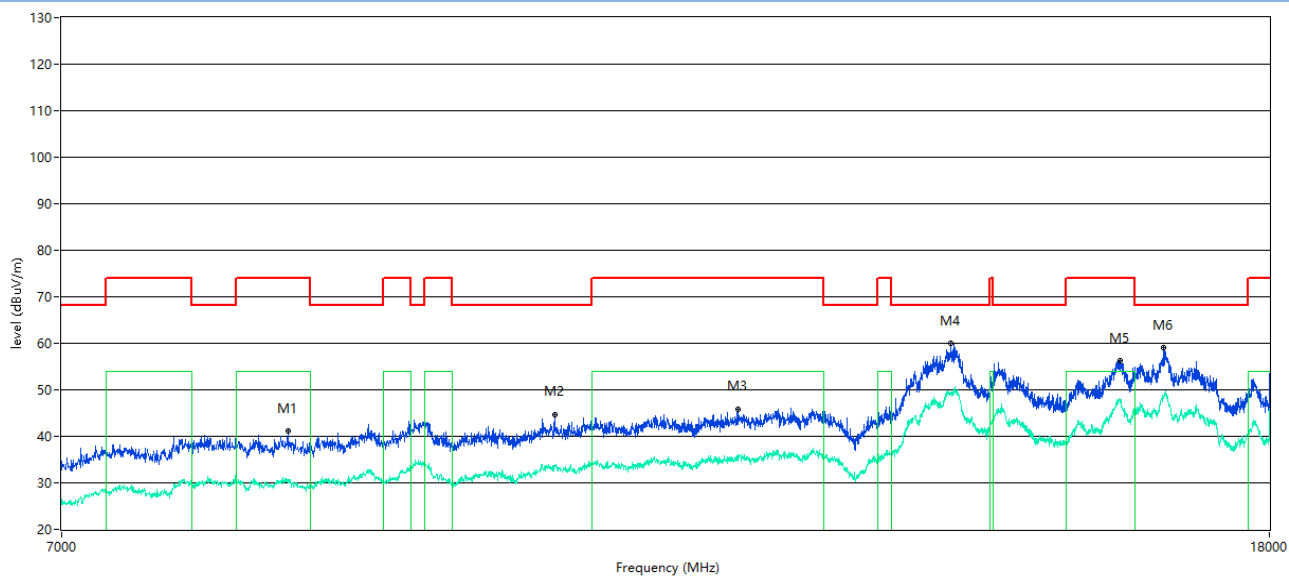
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8149.213           | 39.81                     | --                          | 29.8                         | -7.80          | 74.0                 | --                   | 54.0                 | 24.20          | 95.00     | 100            | Vertical | Pass    |
| 9287.428           | 43.74                     | --                          | 34.3                         | -4.06          | 68.2                 | --                   | --                   | 24.46          | 9.00      | 100            | Vertical | Pass    |
| 11764.559          | 44.78                     | --                          | 34.9                         | -1.09          | 74.0                 | --                   | 54.0                 | 19.10          | 150.00    | 100            | Vertical | Pass    |
| 14093.227          | 58.88                     | --                          | 49.6                         | 14.80          | 68.2                 | --                   | --                   | 9.32           | 234.00    | 100            | Vertical | Pass    |
| 15998.500          | 56.66                     | --                          | 48.5                         | 10.69          | 74.0                 | --                   | 54.0                 | 5.50           | 122.00    | 100            | Vertical | Pass    |
| 16595.101          | 59.08                     | --                          | 49.0                         | 12.00          | 68.2                 | --                   | --                   | 9.12           | 15.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11ac(HT40) Low channel



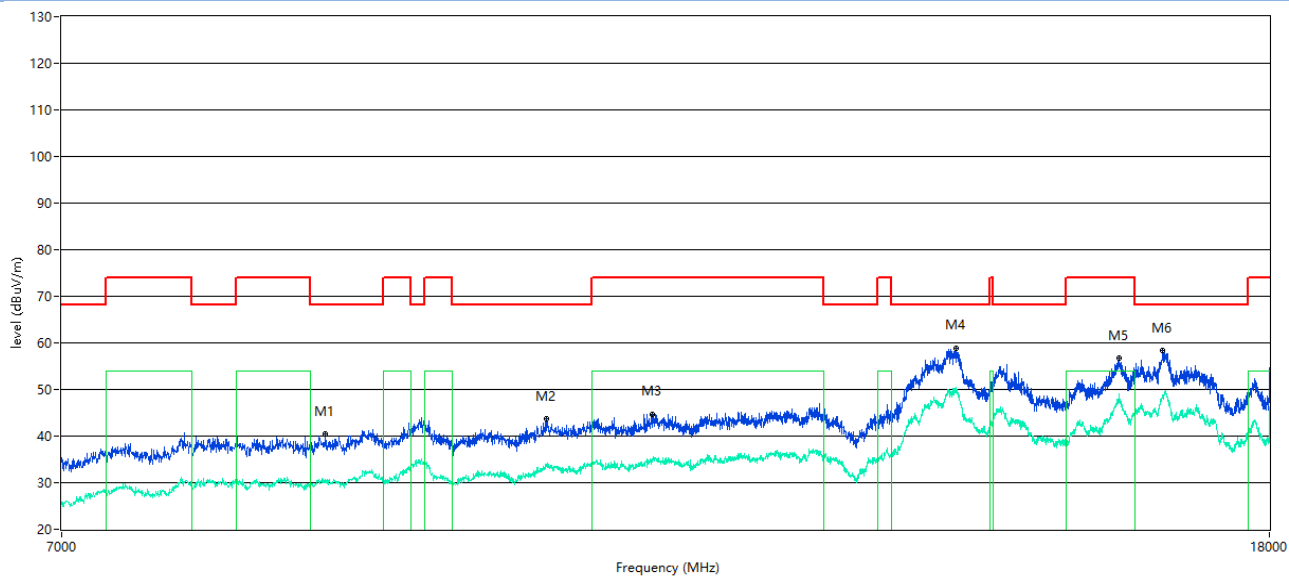
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8899.775           | 41.34                     | --                          | 32.7                         | -4.87          | 68.2                 | --                   | --                   | 26.86          | 1.00      | 100            | Horizontal | Pass    |
| 9224.194           | 43.60                     | --                          | 34.0                         | -4.69          | 68.2                 | --                   | --                   | 24.60          | 164.00    | 100            | Horizontal | Pass    |
| 11932.267          | 47.96                     | --                          | 35.7                         | -0.81          | 74.0                 | --                   | 54.0                 | 18.30          | 215.00    | 100            | Horizontal | Pass    |
| 14060.235          | 58.82                     | --                          | 49.4                         | 14.46          | 68.2                 | --                   | --                   | 9.38           | 75.00     | 100            | Horizontal | Pass    |
| 15993.002          | 57.49                     | --                          | 48.0                         | 10.46          | 74.0                 | --                   | 54.0                 | 6.00           | 46.00     | 100            | Horizontal | Pass    |
| 16600.600          | 59.65                     | --                          | 50.1                         | 12.12          | 68.2                 | --                   | --                   | 8.55           | 0.00      | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11ac(HT40) High channel



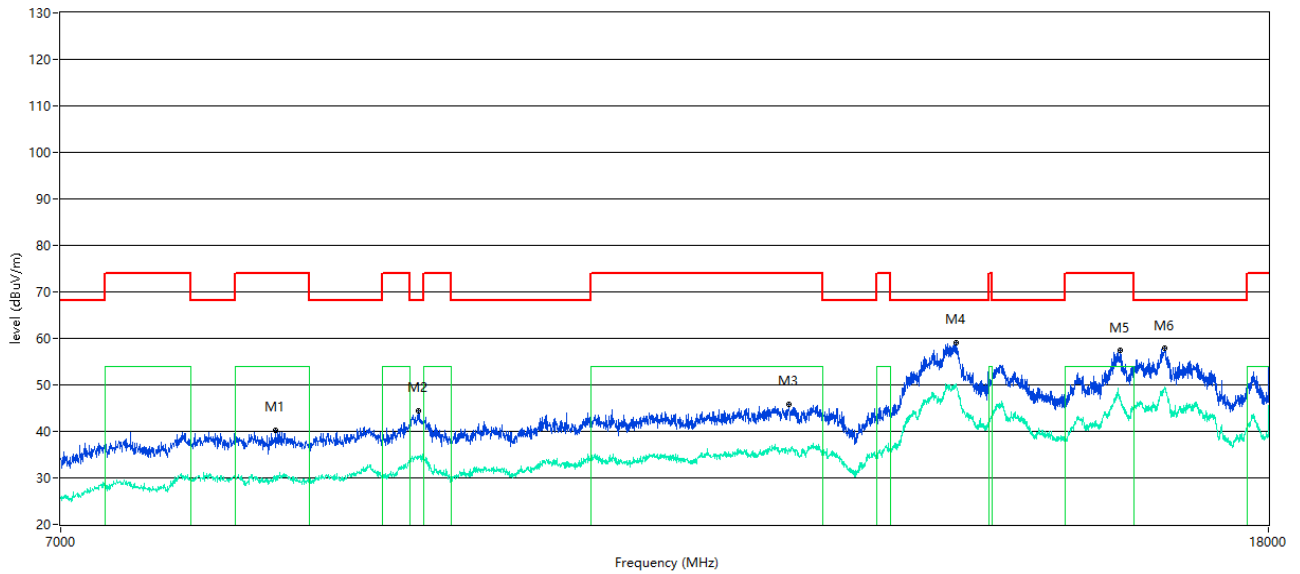
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8355.411           | 41.10                     | --                          | 30.6                         | -6.99          | 74.0                 | --                   | 54.0                 | 23.40          | 103.00    | 100            | Vertical | Pass    |
| 10293.677          | 44.65                     | --                          | 33.7                         | -2.04          | 68.2                 | --                   | --                   | 23.55          | 6.00      | 100            | Vertical | Pass    |
| 11877.281          | 45.86                     | --                          | 36.1                         | -0.91          | 74.0                 | --                   | 54.0                 | 17.90          | 120.00    | 100            | Vertical | Pass    |
| 14035.491          | 59.92                     | --                          | 49.3                         | 14.27          | 68.2                 | --                   | --                   | 8.28           | 3.00      | 100            | Vertical | Pass    |
| 16012.247          | 56.22                     | --                          | 47.4                         | 10.34          | 74.0                 | --                   | 54.0                 | 6.60           | 185.00    | 100            | Vertical | Pass    |
| 16567.608          | 59.02                     | --                          | 48.2                         | 11.34          | 68.2                 | --                   | --                   | 9.18           | 15.00     | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11ac(HT40) High channel



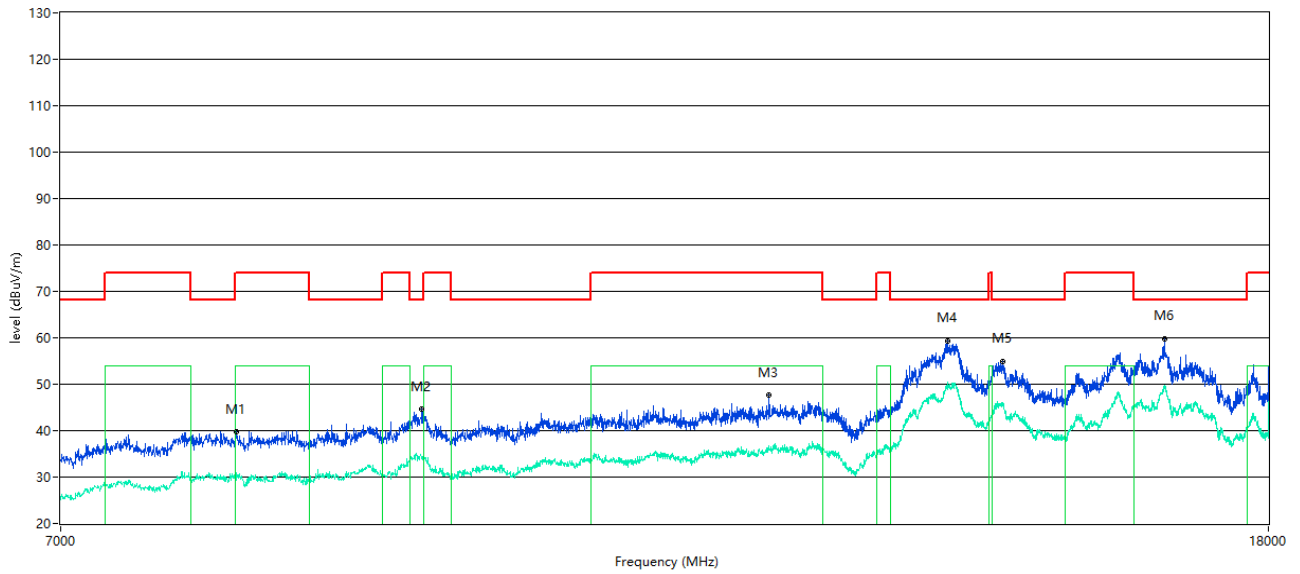
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8605.599           | 40.39                     | --                          | 30.7                         | -7.21          | 68.2                 | --                   | --                   | 27.81          | 46.00     | 100            | Horizontal | Pass    |
| 10230.442          | 43.61                     | --                          | 33.7                         | -2.34          | 68.2                 | --                   | --                   | 24.59          | 73.00     | 100            | Horizontal | Pass    |
| 11107.473          | 44.74                     | --                          | 34.8                         | -1.78          | 74.0                 | --                   | 54.0                 | 19.20          | 107.00    | 100            | Horizontal | Pass    |
| 14090.477          | 58.92                     | --                          | 49.8                         | 14.83          | 68.2                 | --                   | --                   | 9.28           | 72.00     | 100            | Horizontal | Pass    |
| 16001.250          | 56.70                     | --                          | 49.0                         | 10.71          | 74.0                 | --                   | 54.0                 | 5.00           | 338.00    | 100            | Horizontal | Pass    |
| 16559.360          | 58.37                     | --                          | 48.8                         | 11.18          | 68.2                 | --                   | --                   | 9.83           | 15.00     | 100            | Horizontal | Pass    |

## 7 GHz to 18 GHz, ANT V Band IV 802.11ac(HT80) Low channel



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 8283.929           | 40.24                     | --                          | 30.2                         | -6.94          | 74.0                 | --                   | 54.0                 | 23.80          | 91.00     | 100            | Vertical | Pass    |
| 9259.935           | 44.43                     | --                          | 34.3                         | -4.28          | 68.2                 | --                   | --                   | 23.77          | 243.00    | 100            | Vertical | Pass    |
| 12372.157          | 45.88                     | --                          | 36.3                         | -0.70          | 74.0                 | --                   | 54.0                 | 17.70          | 107.00    | 100            | Vertical | Pass    |
| 14098.725          | 59.09                     | --                          | 50.3                         | 14.80          | 68.2                 | --                   | --                   | 9.11           | 165.00    | 100            | Vertical | Pass    |
| 16028.743          | 57.38                     | --                          | 47.5                         | 9.83           | 74.0                 | --                   | 54.0                 | 6.50           | 46.00     | 100            | Vertical | Pass    |
| 16603.349          | 57.90                     | --                          | 49.1                         | 12.02          | 68.2                 | --                   | --                   | 10.30          | 4.00      | 100            | Vertical | Pass    |

## 7 GHz to 18 GHz, ANT H Band IV 802.11ac(HT80) Low channel



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 8028.243           | 39.76                     | --                          | 30.9                         | -8.82          | 74.0                 | --                   | 54.0                 | 23.10          | 91.00     | 100            | Horizontal | Pass    |
| 9281.930           | 44.65                     | --                          | 34.3                         | -4.15          | 68.2                 | --                   | --                   | 23.55          | 64.00     | 100            | Horizontal | Pass    |
| 12182.454          | 47.58                     | --                          | 36.8                         | -0.55          | 74.0                 | --                   | 54.0                 | 17.20          | 78.00     | 100            | Horizontal | Pass    |
| 14010.747          | 59.39                     | --                          | 50.4                         | 14.28          | 68.2                 | --                   | --                   | 8.81           | 161.00    | 100            | Horizontal | Pass    |
| 14623.844          | 54.93                     | --                          | 45.7                         | 9.87           | 68.2                 | --                   | --                   | 13.27          | 78.00     | 100            | Horizontal | Pass    |
| 16592.352          | 59.84                     | --                          | 49.7                         | 11.91          | 68.2                 | --                   | --                   | 8.36           | 34.00     | 100            | Horizontal | Pass    |

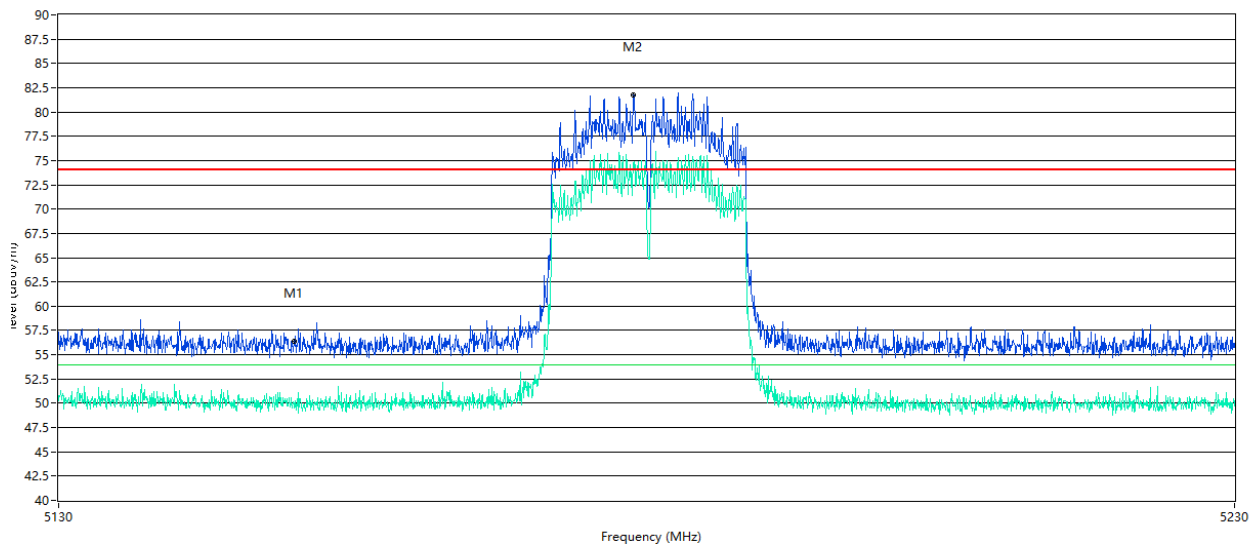
### A.7.2 Band Edge (Restricted-band)

Note: Test plots please refer to the document “Annex No.: BL-EC1830163-604 Data Part 5.pdf”.

| Test Band | Mode           | Channel | Verdict |
|-----------|----------------|---------|---------|
| Band I    | 802.11a        | Low     | Pass    |
|           |                | High    | Pass    |
|           | 802.11n(HT20)  | Low     | Pass    |
|           |                | High    | Pass    |
|           | 802.11n(HT40)  | Low     | Pass    |
|           |                | High    | Pass    |
|           | 802.11ac(HT80) | Low     | Pass    |
| Band IV   | 802.11a        | Low     | Pass    |
|           |                | High    | Pass    |
|           | 802.11n(HT20)  | Low     | Pass    |
|           |                | High    | Pass    |
|           | 802.11n(HT40)  | Low     | Pass    |
|           |                | High    | Pass    |
|           | 802.11ac(HT80) | Low     | Pass    |

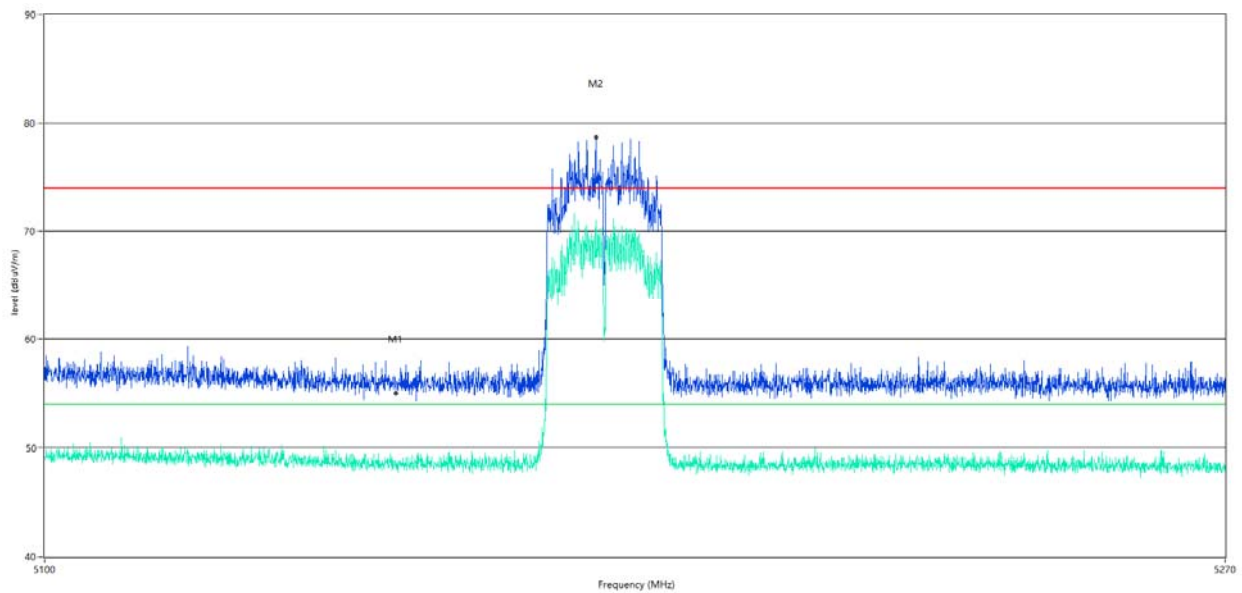
## Test Plots

Band I 11a CH36 ANT V



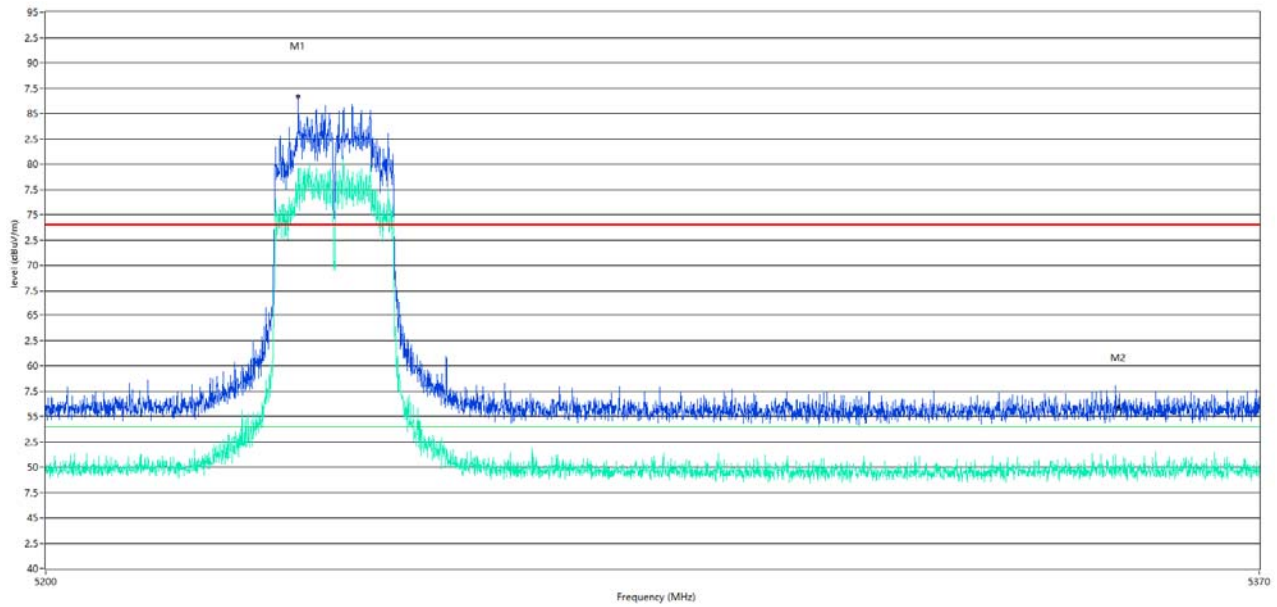
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5150.000        | 56.51               | --                    | 50.1                   | 44.02       | 74.0              | --                | 54.0              | 3.90        | 160.93    | 100         | Vertical | Pass    |
| 5178.630        | 81.80               | --                    | 74.8                   | 43.84       | 74.0              | --                | 54.0              | -20.80      | 91.30     | 100         | Vertical | N.A     |

Band I 11a CH36 ANT H



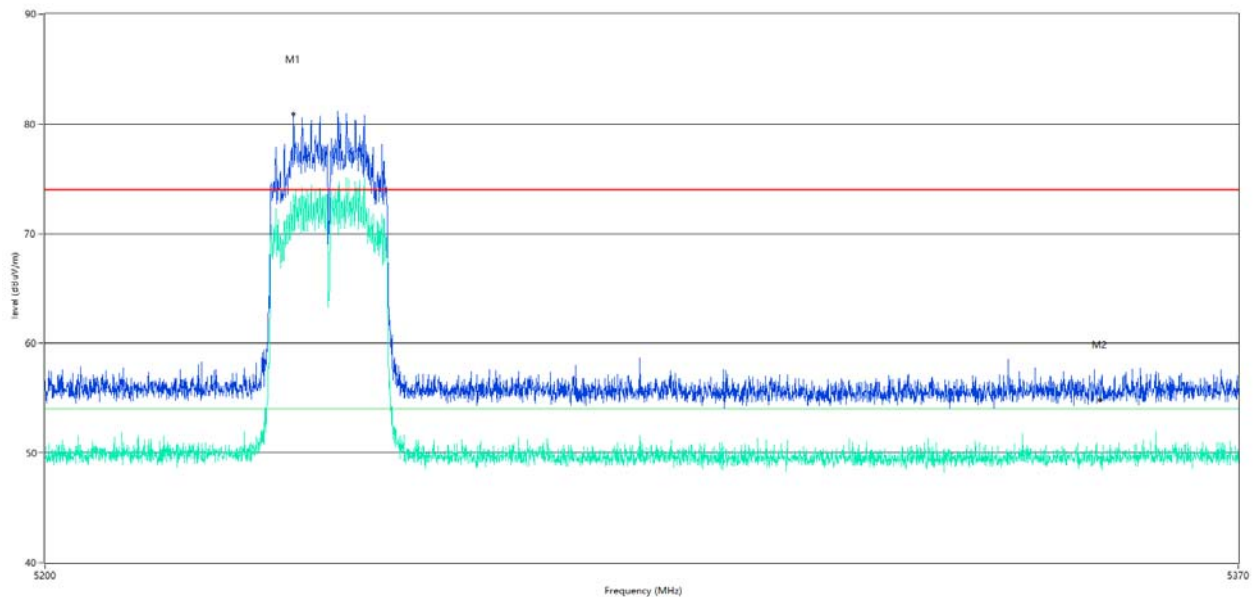
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5150.000        | 55.15               | --                    | 48.2                   | 44.02       | 74.0              | --                | 54.0              | 5.80        | 112.65    | 100         | Horizontal | Pass    |
| 5178.680        | 78.68               | --                    | 71.0                   | 43.84       | 74.0              | --                | 54.0              | -17.00      | 120.90    | 100         | Horizontal | N.A     |

### Band I 11a CH48 ANT V



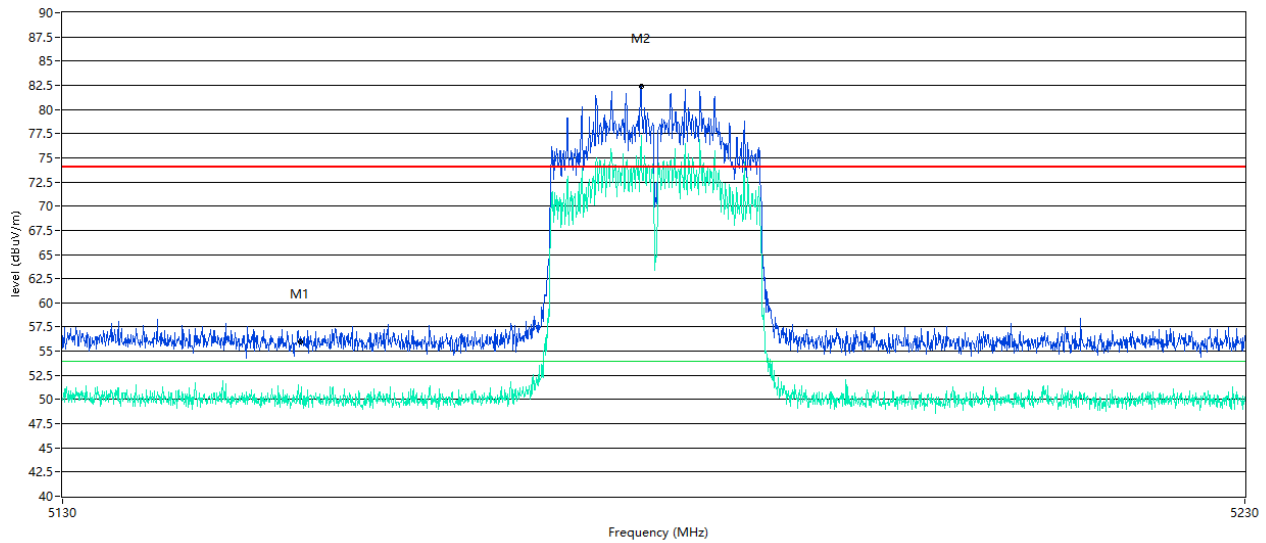
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5234.941        | 86.67               | --                    | 79.5                   | 43.87       | 74.0              | --                | 54.0              | -25.50      | 89.20     | 100         | Vertical | N.A     |
| 5350.000        | 55.80               | --                    | 49.6                   | 43.88       | 74.0              | --                | 54.0              | 4.40        | 150.05    | 100         | Vertical | Pass    |

### Band I 11a CH48 ANT H



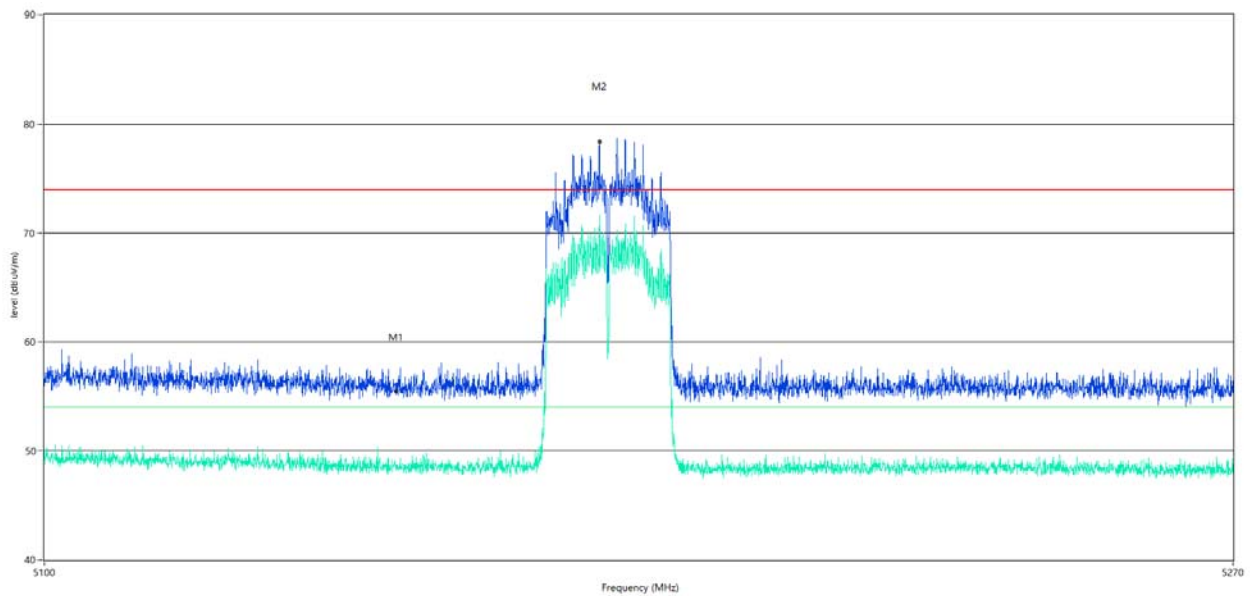
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5241.190        | 81.10               | --                    | 72.9                   | 43.80       | 74.0              | --                | 54.0              | -18.90      | 125.00    | 100         | Horizontal | N.A     |
| 5350.000        | 54.81               | --                    | 49.5                   | 43.88       | 74.0              | --                | 54.0              | 4.50        | 337.73    | 100         | Horizontal | Pass    |

### Band I 11n(HT20) CH36 ANT V



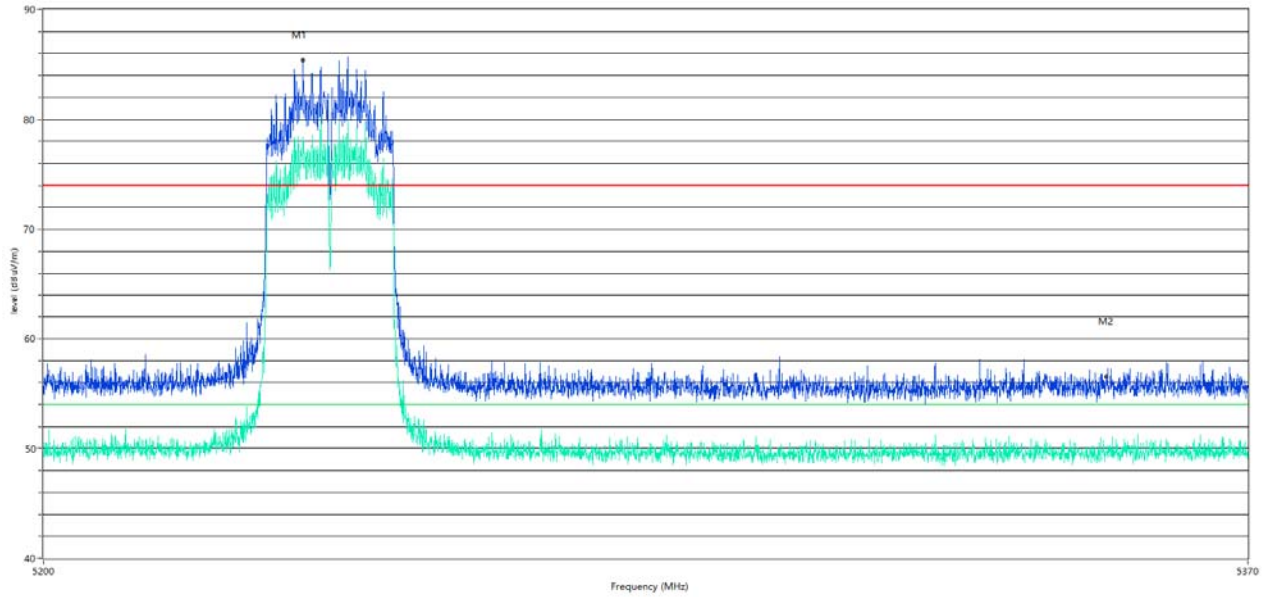
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5150.000           | 55.91                     | --                          | 50.4                         | 44.02          | 74.0                 | --                   | 54.0                 | 3.60           | 143.68    | 100            | Vertical | Pass    |
| 5178.680           | 82.36                     | --                          | 77.3                         | 43.84          | 74.0                 | --                   | 54.0                 | -23.30         | 90.00     | 100            | Vertical | N.A     |

### Band I 11n(HT20) CH36 ANT H



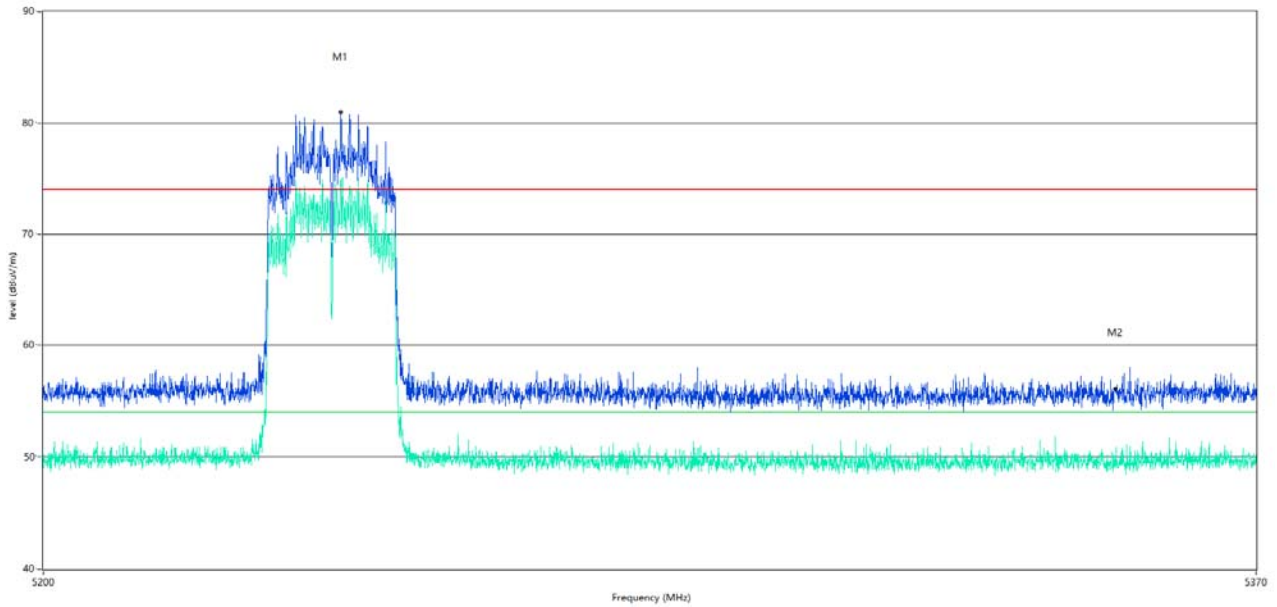
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5150.000           | 55.37                     | --                          | 48.5                         | 44.02          | 74.0                 | --                   | 54.0                 | 5.50           | 177.90    | 100            | Horizontal | Pass    |
| 5178.680           | 78.39                     | --                          | 71.7                         | 43.84          | 74.0                 | --                   | 54.0                 | -17.70         | 125.00    | 100            | Horizontal | N.A     |

### Band I 11n(HT20) CH48 ANT V



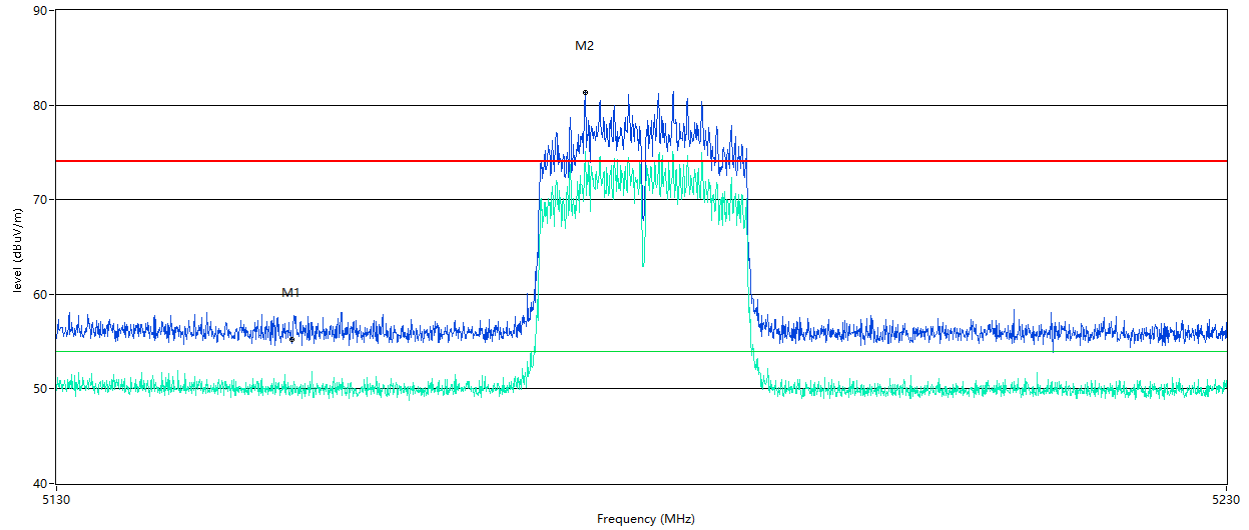
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5236.191           | 85.42                     | --                          | 78.4                         | 43.85          | 74.0                 | --                   | 54.0                 | -24.40         | 89.00     | 100            | Vertical | N.A     |
| 5350.000           | 56.48                     | --                          | 50.3                         | 43.88          | 74.0                 | --                   | 54.0                 | 3.70           | 306.77    | 100            | Vertical | Pass    |

### Band I 11n(HT20) CH48 ANT H



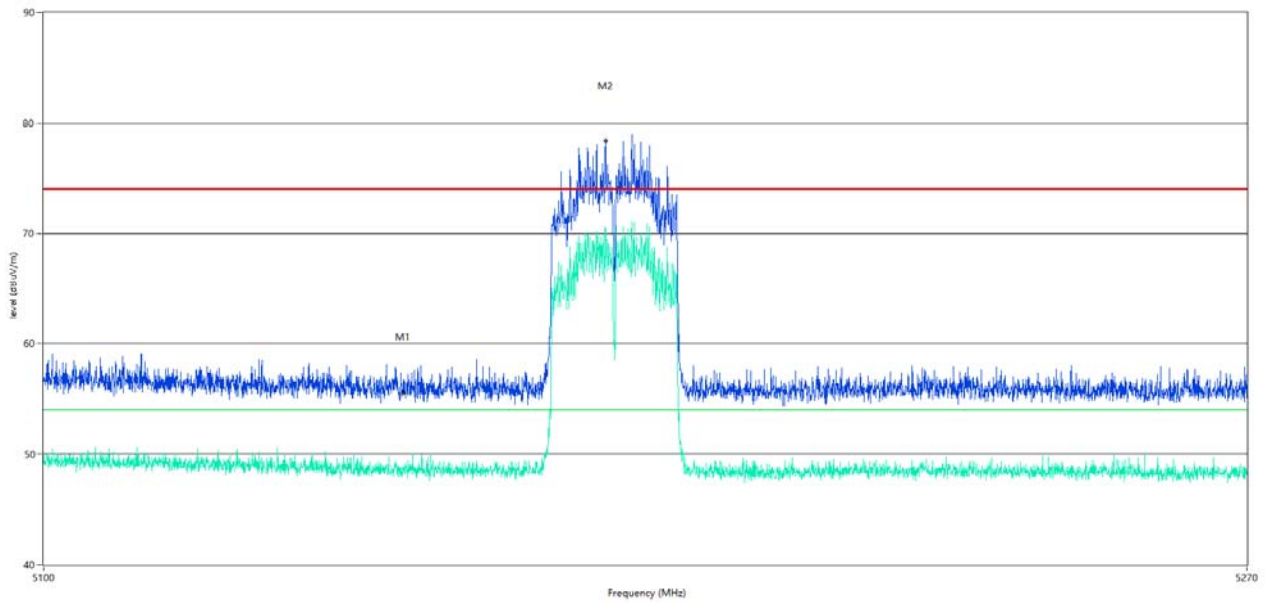
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5241.190           | 80.95                     | --                          | 74.6                         | 43.80          | 74.0                 | --                   | 54.0                 | -20.60         | 121.10    | 100            | Horizontal | N.A     |
| 5350.000           | 56.04                     | --                          | 49.4                         | 43.88          | 74.0                 | --                   | 54.0                 | 4.60           | 195.53    | 100            | Horizontal | Pass    |

## Band I 11ac(HT20) CH36 ANT V



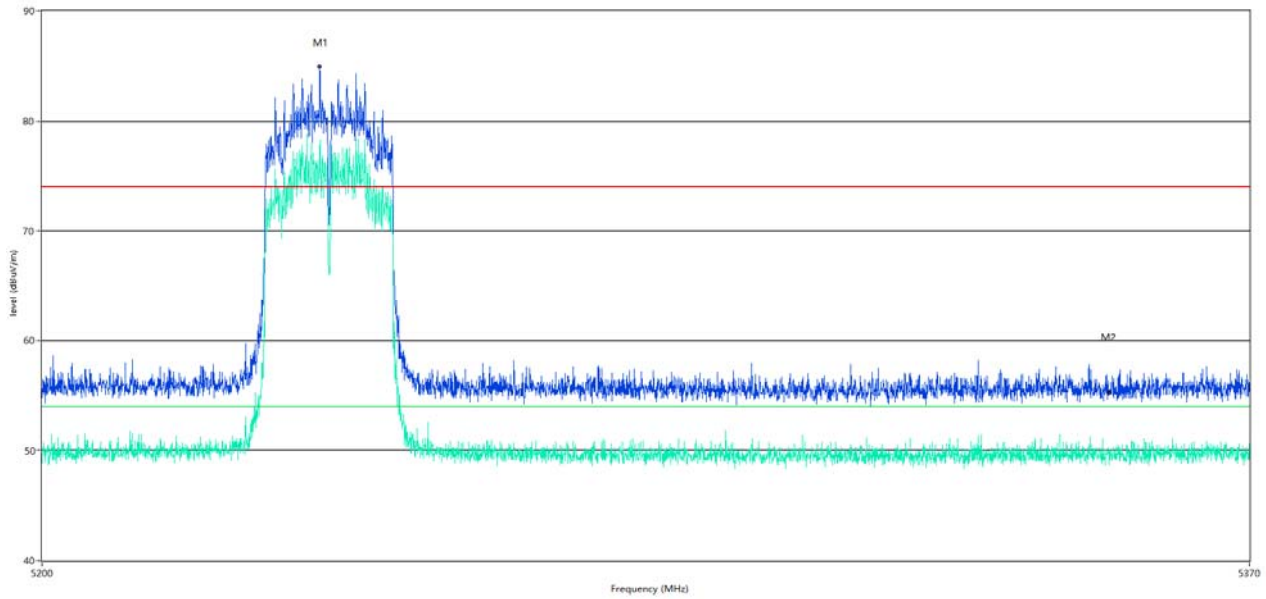
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5150.000           | 55.34                     | --                          | 49.4                         | 44.02          | 74.0                 | --                   | 54.0                 | 4.60           | 114.33    | 100            | Vertical | Pass    |
| 5174.931           | 81.34                     | --                          | 75.1                         | 43.87          | 74.0                 | --                   | 54.0                 | -21.10         | 90.90     | 100            | Vertical | N.A     |

## Band I 11ac(HT20) CH36 ANT H



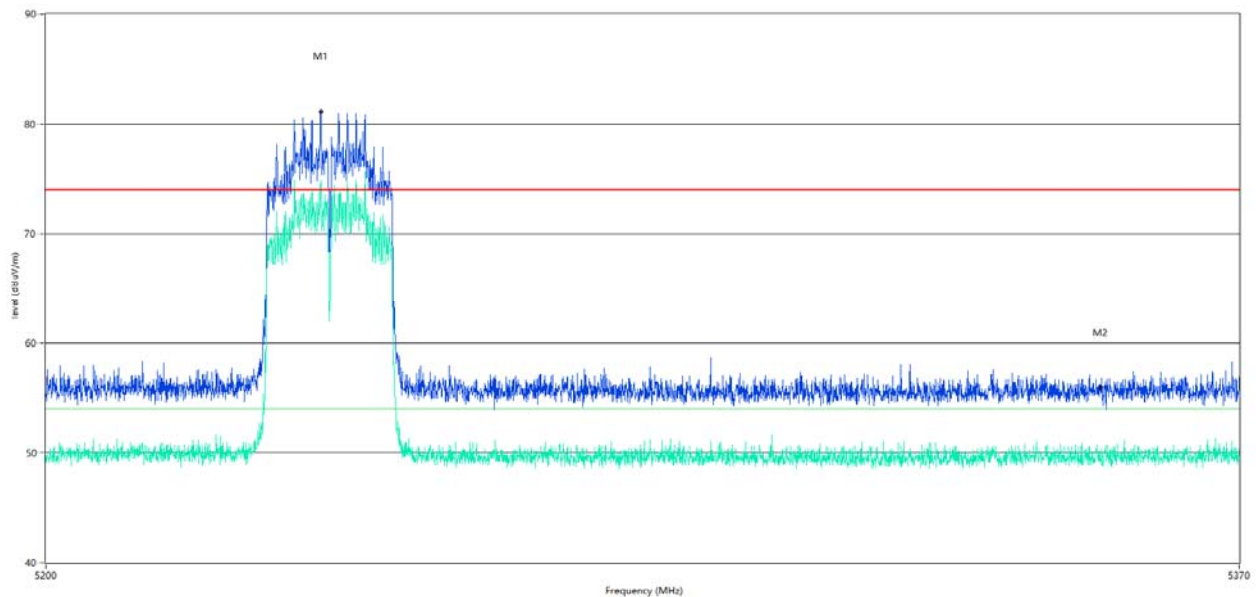
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5150.000           | 55.61                     | --                          | 48.3                         | 44.02          | 74.0                 | --                   | 54.0                 | 5.70           | 289.90    | 100            | Horizontal | Pass    |
| 5178.680           | 78.41                     | --                          | 70.4                         | 43.84          | 74.0                 | --                   | 54.0                 | -16.40         | 120.80    | 100            | Horizontal | N.A     |

## Band I 11ac(HT20) CH48 ANT V



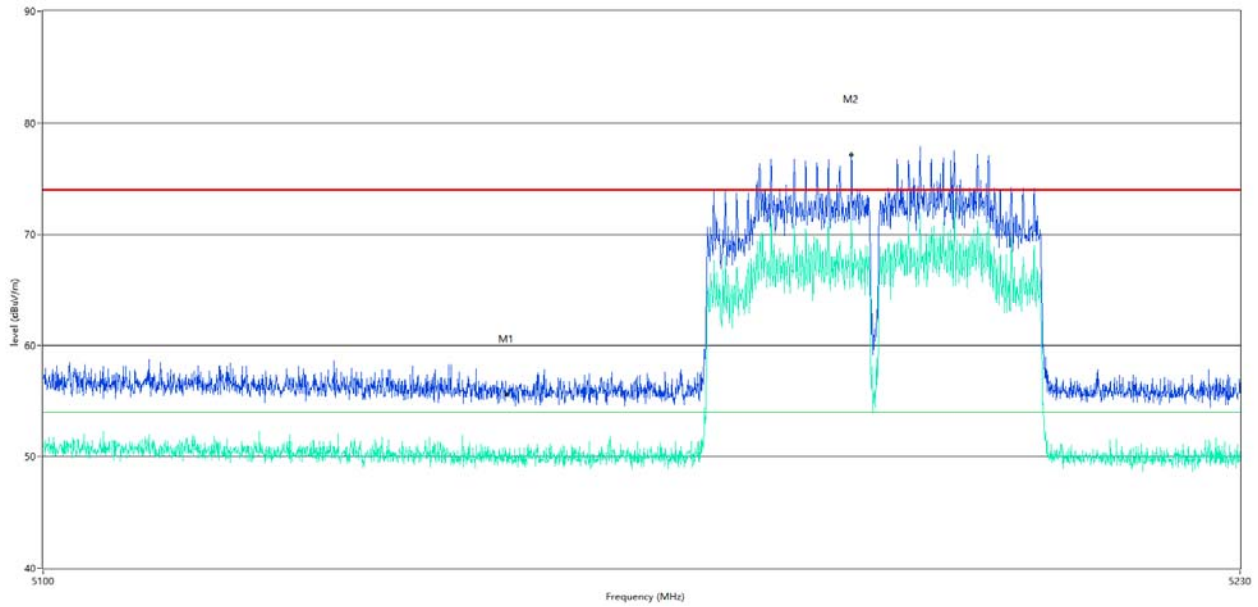
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5238.640        | 84.95               | --                    | 77.3                   | 43.83       | 74.0              | --                | 54.0              | -23.30      | 91.40     | 100         | Vertical | N.A     |
| 5350.000        | 55.25               | --                    | 49.0                   | 43.88       | 74.0              | --                | 54.0              | 5.00        | 109.95    | 100         | Vertical | Pass    |

## Band I 11ac(HT20) CH48 ANT H



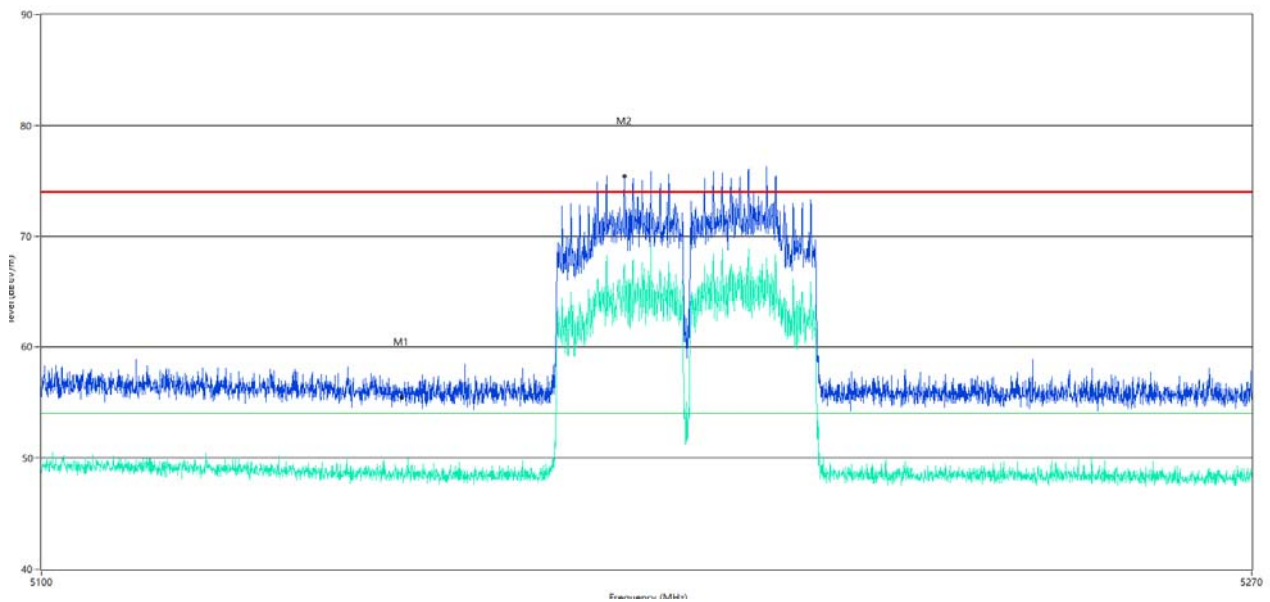
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5238.690        | 81.16               | --                    | 74.9                   | 43.83       | 74.0              | --                | 54.0              | -20.90      | 136.40    | 100         | Horizontal | N.A     |
| 5350.000        | 55.80               | --                    | 49.2                   | 43.88       | 74.0              | --                | 54.0              | 4.80        | 204.32    | 100         | Horizontal | Pass    |

### Band I 11n(HT40) CH38 ANT V



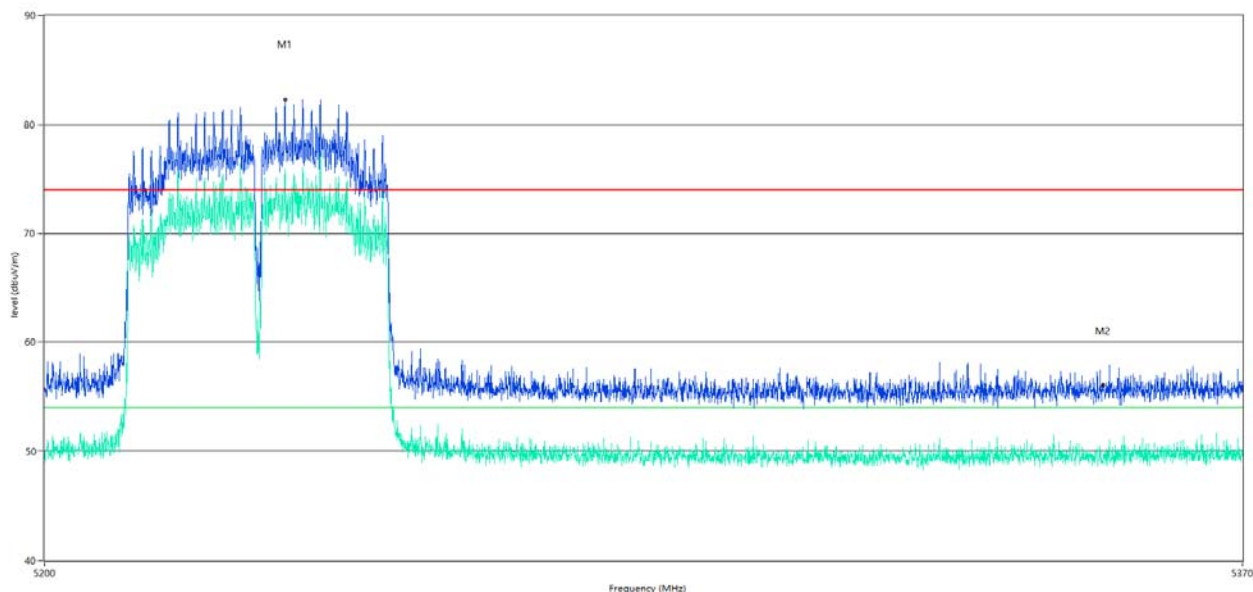
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5150.000        | 55.51               | --                    | 49.5                   | 44.02       | 74.0              | --                | 54.0              | 4.50        | 359.05    | 100         | Vertical | Pass    |
| 5187.428        | 77.16               | --                    | 71.4                   | 43.79       | 74.0              | --                | 54.0              | -17.40      | 85.30     | 100         | Vertical | N.A     |

### Band I 11n(HT40) CH38 ANT H



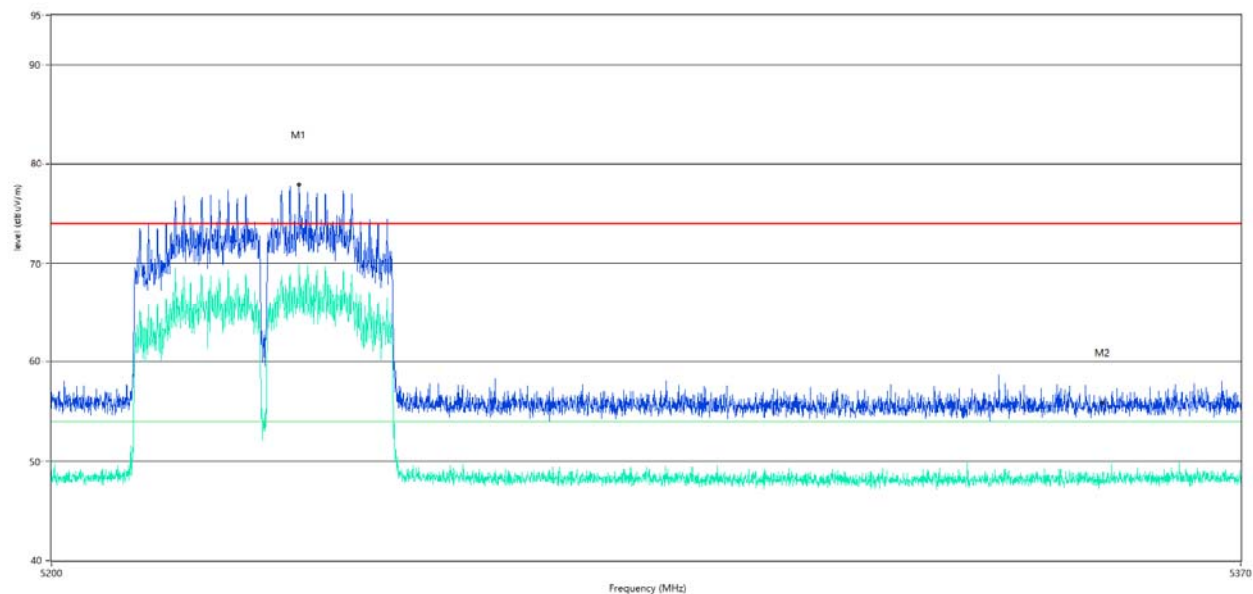
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5150.000        | 55.52               | --                    | 48.6                   | 44.02       | 74.0              | --                | 54.0              | 5.40        | 48.60     | 100         | Horizontal | Pass    |
| 5181.180        | 75.40               | --                    | 67.5                   | 43.83       | 74.0              | --                | 54.0              | -13.50      | 125.70    | 100         | Horizontal | N.A     |

## Band I 11n(HT40) CH46 ANT V



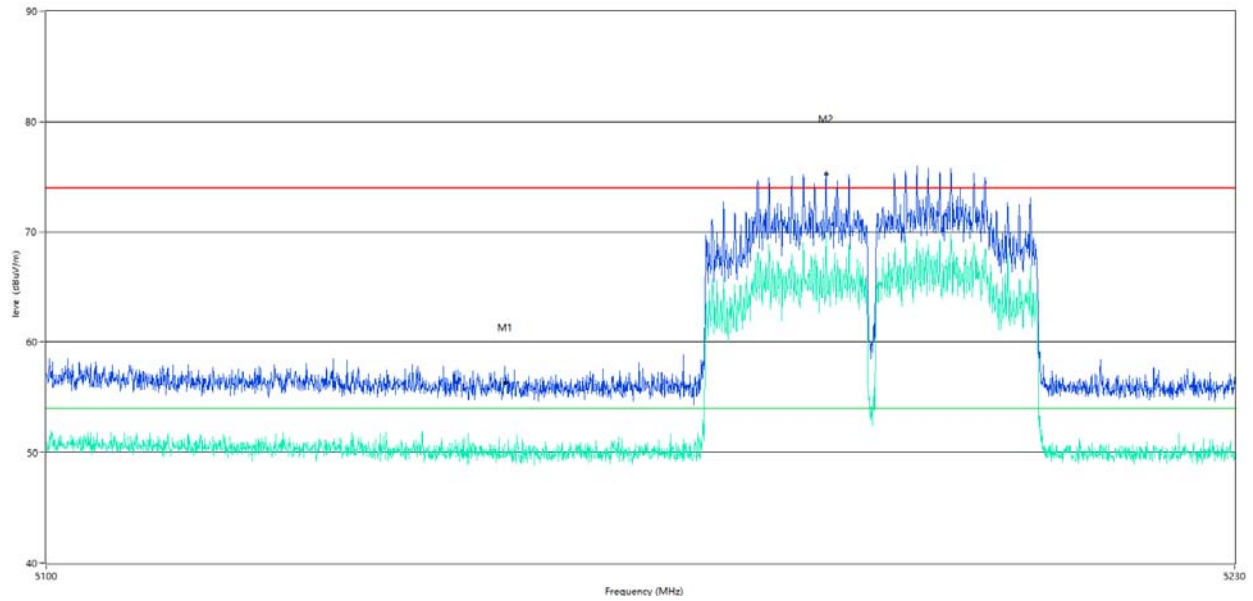
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5233.692           | 82.29                     | --                          | 75.9                         | 43.88          | 74.0                 | --                   | 54.0                 | -21.90         | 88.70     | 100            | Vertical | N.A     |
| 5350.000           | 55.93                     | --                          | 49.7                         | 43.88          | 74.0                 | --                   | 54.0                 | 4.30           | 140.00    | 100            | Vertical | Pass    |

## Band I 11n(HT40) CH46 ANT H



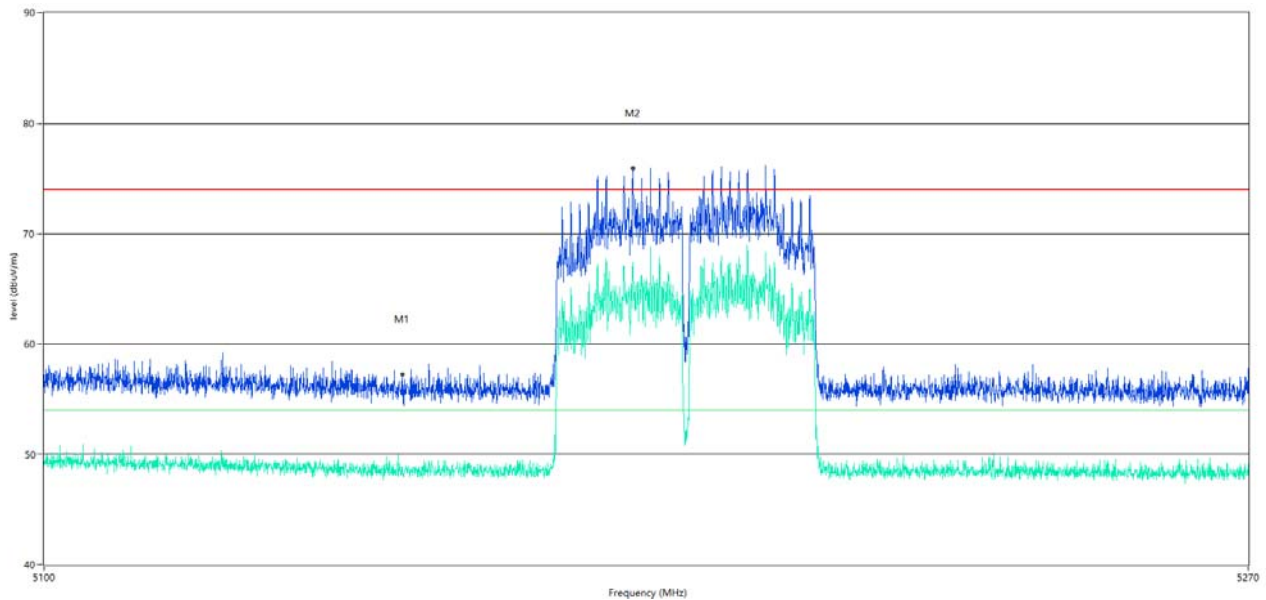
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5233.692           | 78.25                     | --                          | 70.6                         | 43.88          | 74.0                 | --                   | 54.0                 | -16.60         | 123.80    | 100            | Horizontal | N.A     |
| 5350.000           | 56.48                     | --                          | 48.1                         | 43.88          | 74.0                 | --                   | 54.0                 | 5.90           | 80.40     | 100            | Horizontal | Pass    |

## Band I 11ac(HT40) CH38 ANT V



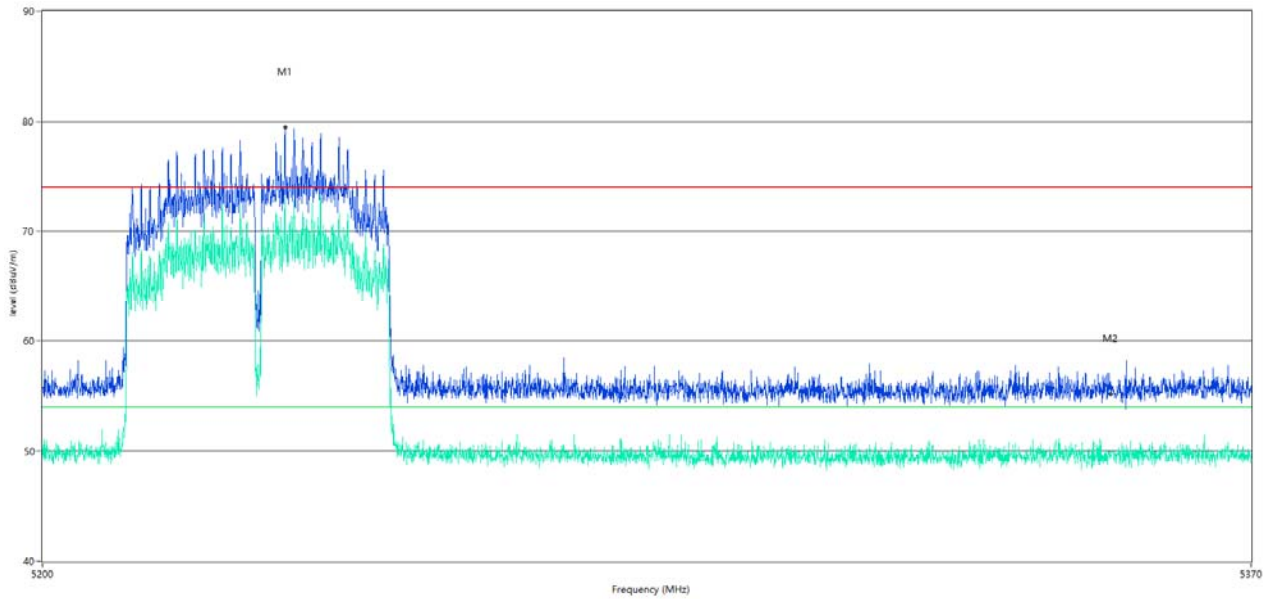
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5150.000        | 56.35               | --                    | 50.0                   | 44.02       | 74.0              | --                | 54.0              | 4.00        | 255.25    | 100         | Vertical | Pass    |
| 5184.929        | 75.26               | --                    | 69.7                   | 43.81       | 74.0              | --                | 54.0              | -15.70      | 32.10     | 100         | Vertical | N.A     |

## Band I 11ac(HT40) CH38 ANT H



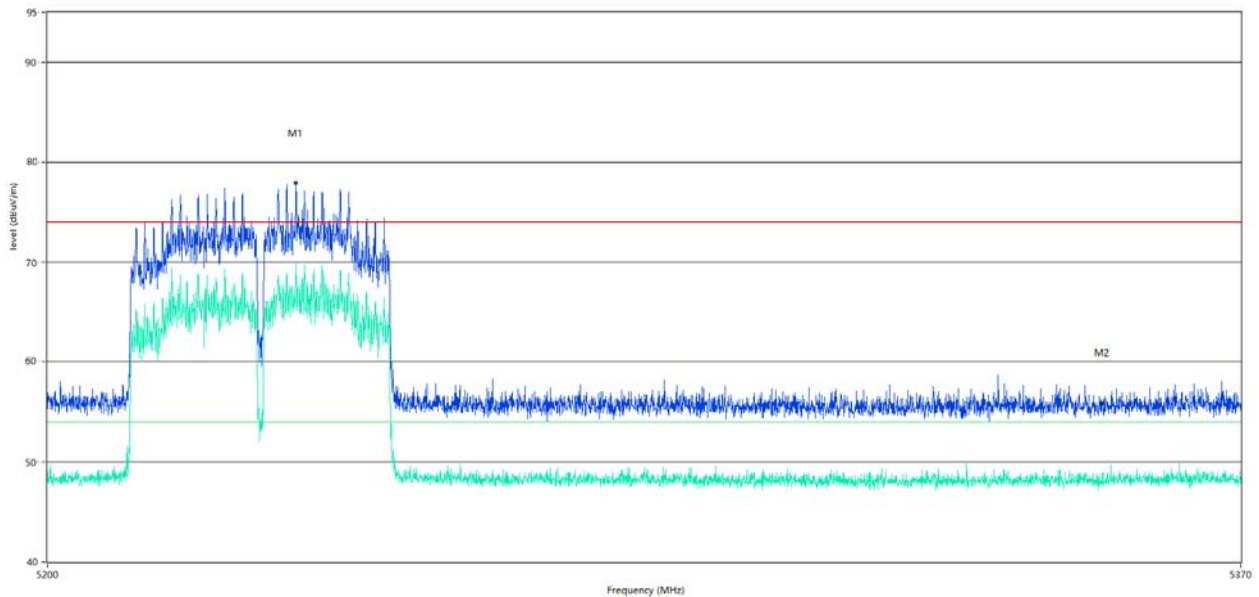
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5150.000        | 56.93               | --                    | 48.7                   | 44.02       | 74.0              | --                | 54.0              | 5.30        | 249.15    | 100         | Horizontal | Pass    |
| 5182.429        | 75.94               | --                    | 67.5                   | 43.82       | 74.0              | --                | 54.0              | -13.50      | 120.10    | 100         | Horizontal | N.A     |

## Band I 11ac(HT40) CH46 ANT V



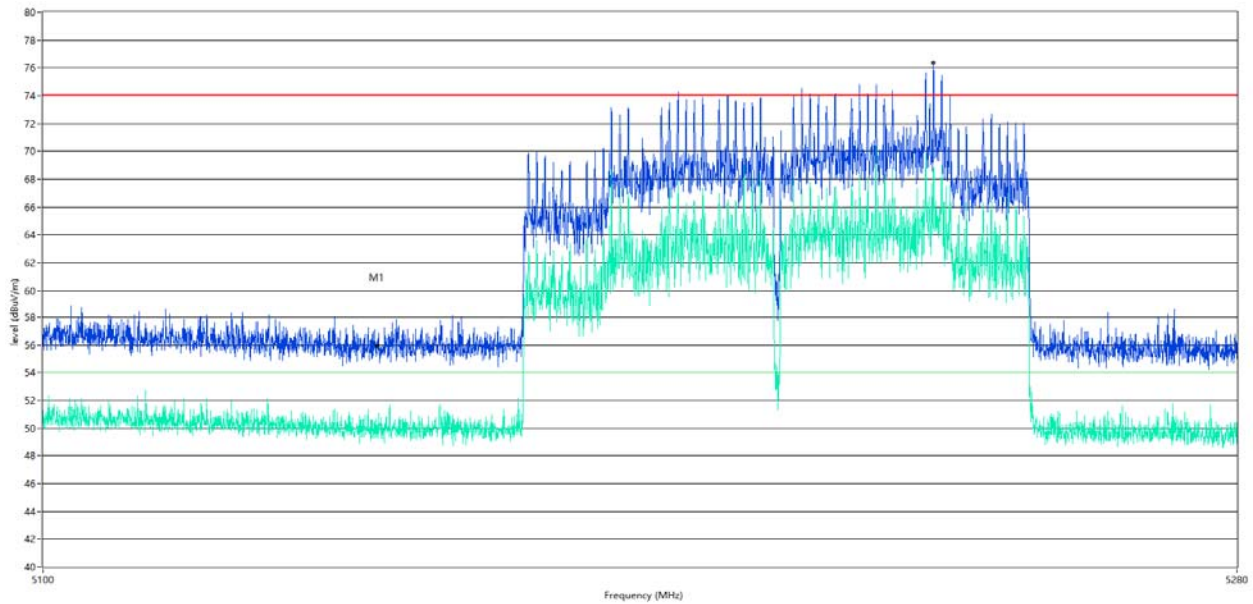
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5233.692        | 79.48               | --                    | 73.1                   | 43.88       | 74.0              | --                | 54.0              | -19.10      | 86.70     | 100         | Vertical | N.A     |
| 5350.000        | 55.25               | --                    | 49.5                   | 43.88       | 74.0              | --                | 54.0              | 4.50        | 143.68    | 100         | Vertical | Pass    |

## Band I 11ac(HT40) CH46 ANT H



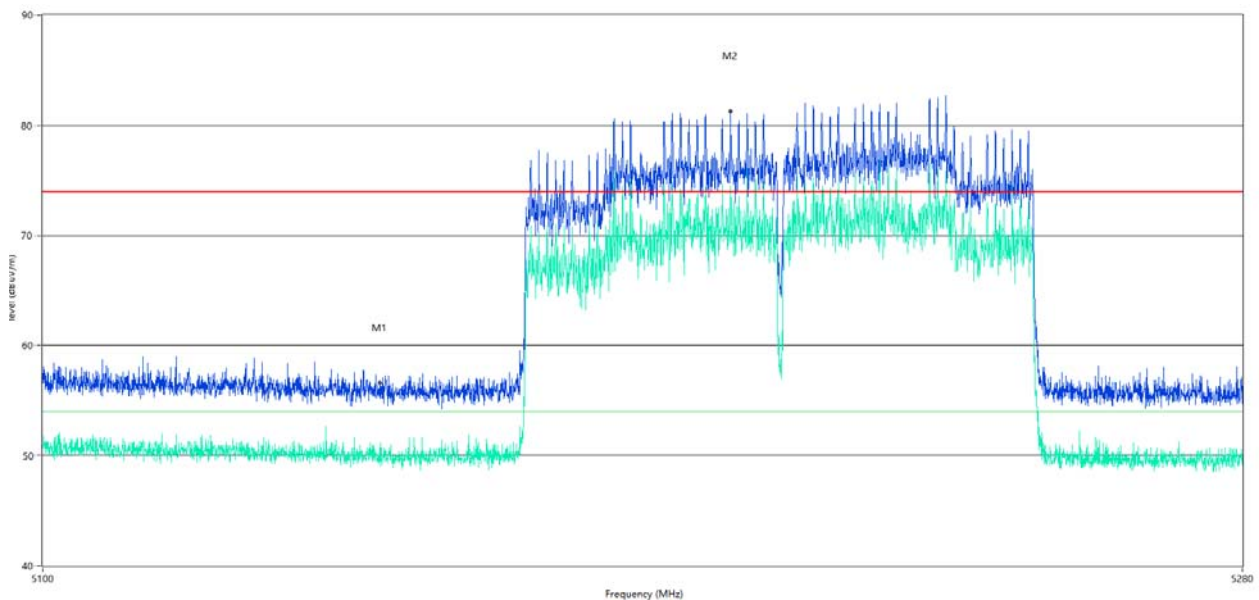
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5234.941        | 77.91               | --                    | 69.9                   | 43.87       | 74.0              | --                | 54.0              | -15.90      | 125.00    | 100         | Horizontal | N.A     |
| 5350.000        | 55.88               | --                    | 48.6                   | 43.88       | 74.0              | --                | 54.0              | 5.40        | 128.15    | 100         | Horizontal | Pass    |

### Band I 11ac(HT80) CH42 ANT V



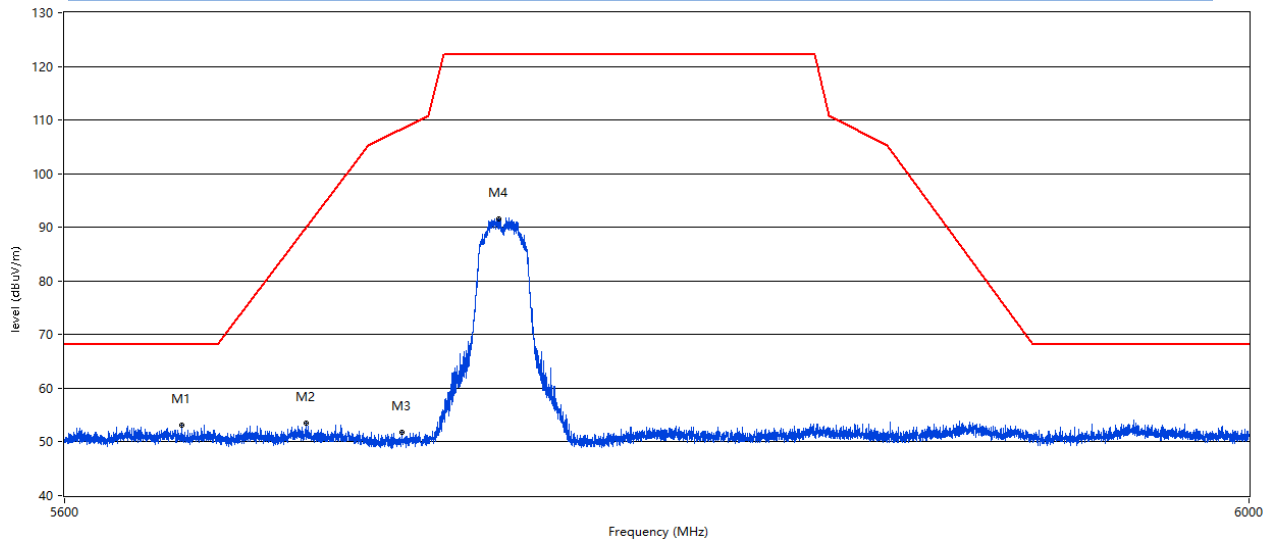
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5150.000        | 55.93               | --                    | 50.9                   | 44.02       | 74.0              | --                | 54.0              | 3.10        | 285.25    | 100         | Vertical | Pass    |
| 5233.667        | 76.35               | --                    | 68.7                   | 43.88       | 74.0              | --                | 54.0              | -14.70      | 90.60     | 100         | Vertical | N.A     |

### Band I 11ac(HT80) CH42 ANT H



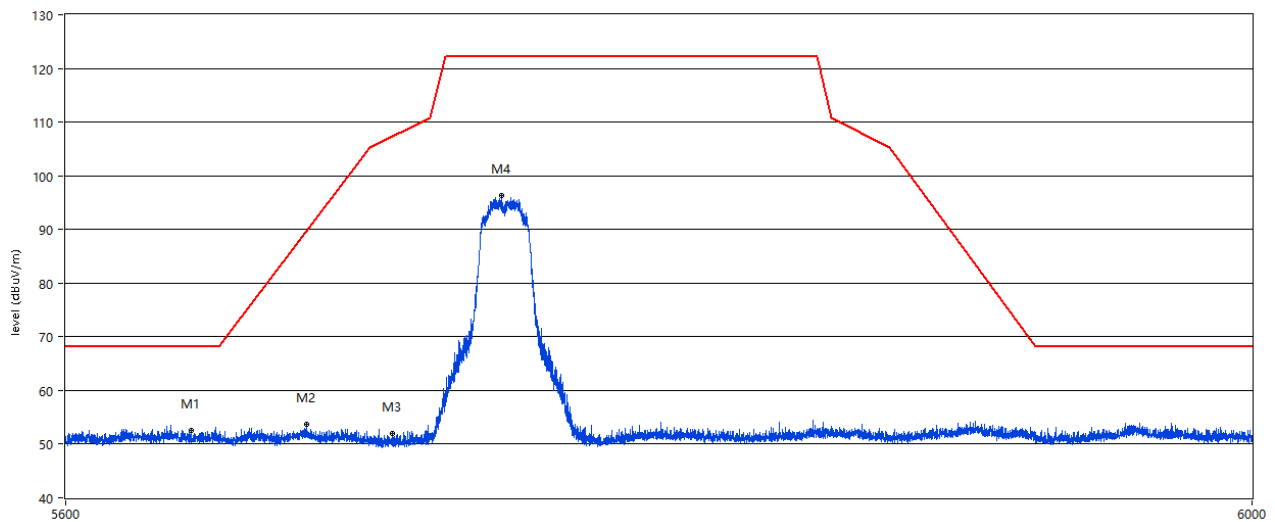
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5150.000        | 56.44               | --                    | 50.6                   | 44.02       | 74.0              | --                | 54.0              | 3.40        | 53.12     | 100         | Horizontal | Pass    |
| 5202.424        | 81.28               | --                    | 74.5                   | 43.79       | 74.0              | --                | 54.0              | -20.50      | 125.50    | 100         | Horizontal | N.A     |

## Band IV 11a CH149 ANT V



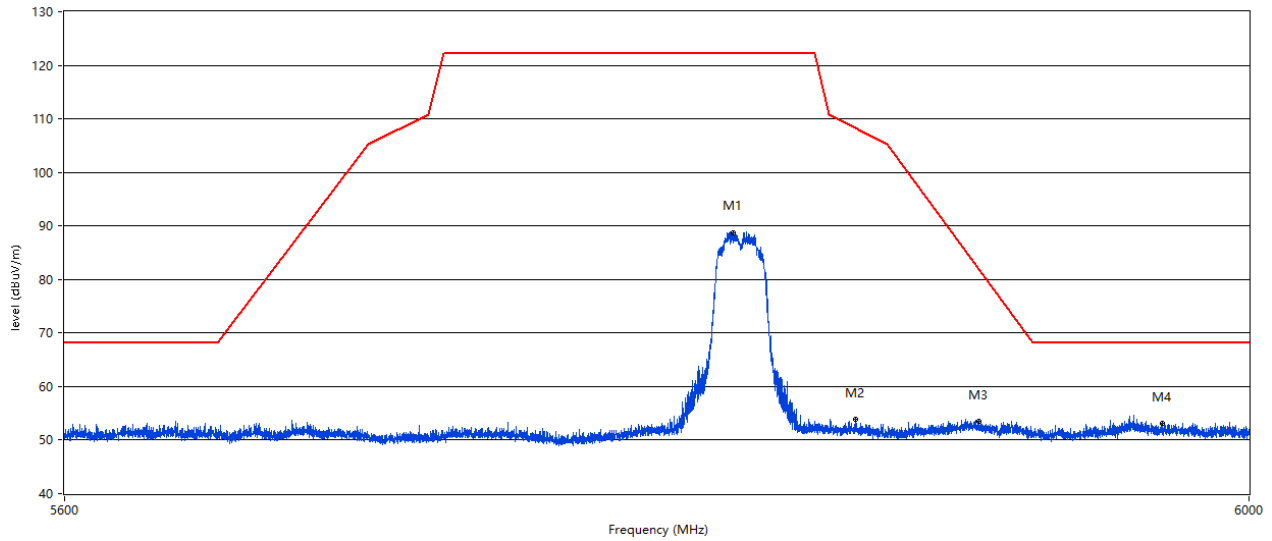
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5638.345        | 53.09               | --                    | --                     | 2.33        | 68.2              | --                | --                | 15.11       | 136.80    | 100         | Vertical | Pass    |
| 5679.440        | 53.43               | --                    | --                     | 2.77        | 90.0              | --                | --                | 36.57       | 71.90     | 100         | Vertical | Pass    |
| 5711.236        | 51.73               | --                    | --                     | 1.56        | 108.3             | --                | --                | 56.57       | 18.50     | 100         | Vertical | Pass    |
| 5743.332        | 91.57               | --                    | --                     | 1.94        | 122.2             | --                | --                | 30.63       | 87.20     | 100         | Vertical | Pass    |

## Band IV 11a CH149 ANT H



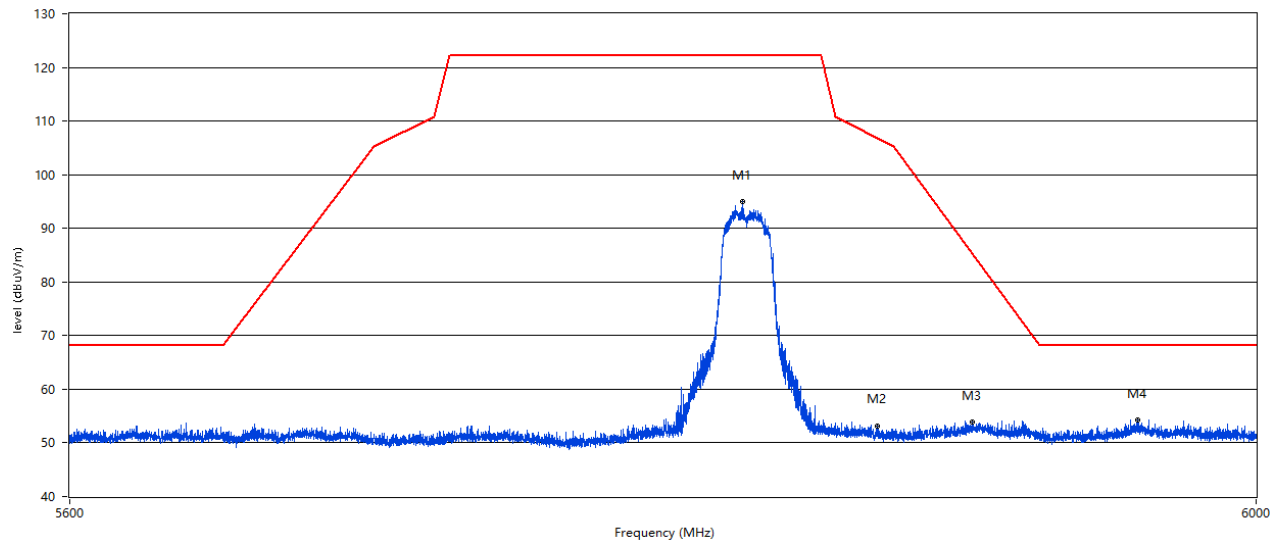
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5640.995        | 52.54               | --                    | --                     | 2.16        | 68.2              | --                | --                | 15.66       | 291.10    | 100         | Horizontal | Pass    |
| 5679.090        | 53.64               | --                    | --                     | 2.78        | 89.8              | --                | --                | 36.16       | 128.00    | 100         | Horizontal | Pass    |
| 5707.537        | 51.99               | --                    | --                     | 1.43        | 107.3             | --                | --                | 55.31       | 35.10     | 100         | Horizontal | Pass    |
| 5743.632        | 96.27               | --                    | --                     | 1.94        | 122.2             | --                | --                | 25.93       | 120.40    | 100         | Horizontal | Pass    |

### Band IV 11a CH165 ANT V



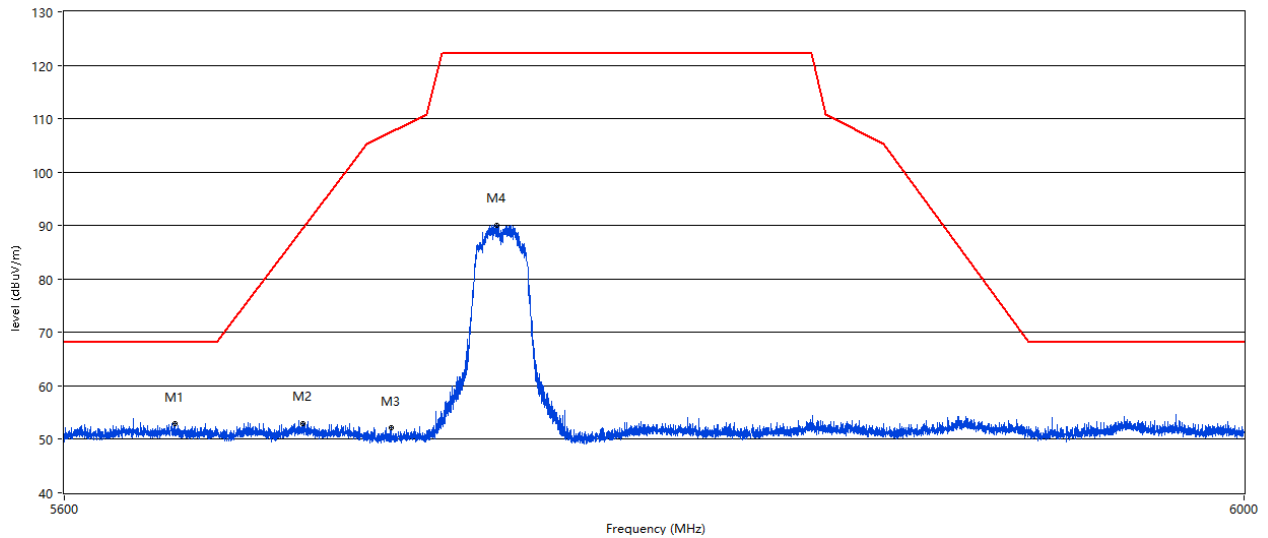
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5822.572        | 88.67               | --                    | --                     | 2.53        | 122.2             | --                | --                | 33.53       | 82.60     | 100         | Vertical | Pass    |
| 5863.967        | 53.85               | --                    | --                     | 3.06        | 108.3             | --                | --                | 54.45       | 67.20     | 100         | Vertical | Pass    |
| 5906.162        | 53.45               | --                    | --                     | 3.55        | 82.1              | --                | --                | 28.65       | 170.00    | 100         | Vertical | Pass    |
| 5969.704        | 53.05               | --                    | --                     | 3.58        | 68.2              | --                | --                | 15.15       | 359.40    | 100         | Vertical | Pass    |

### Band IV 11a CH165 ANT H



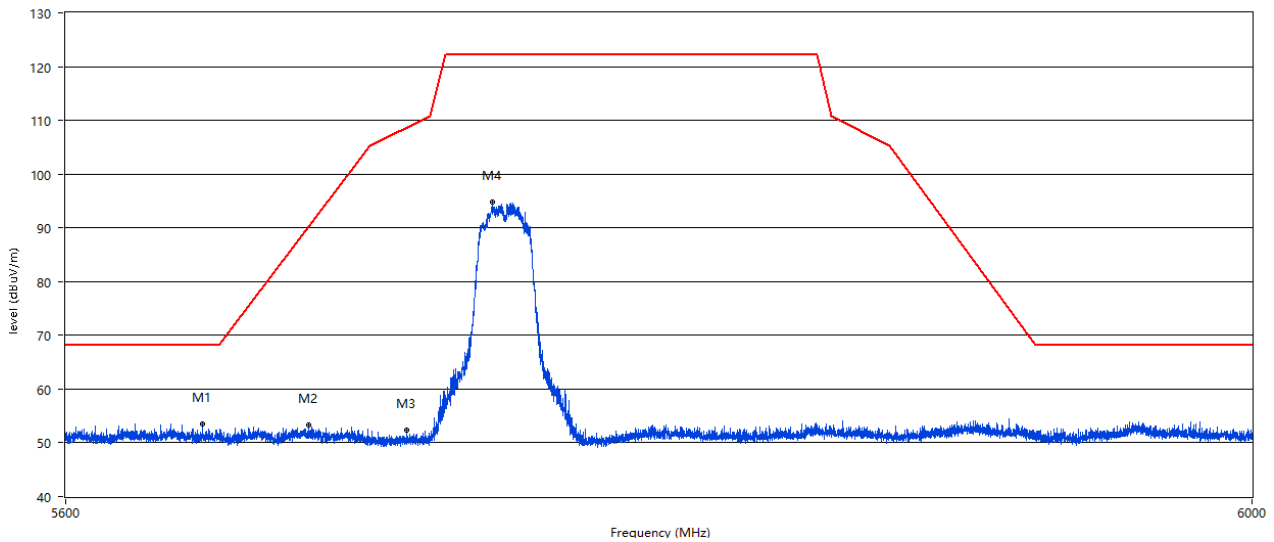
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5823.522        | 94.91               | --                    | --                     | 2.46        | 122.2             | --                | --                | 27.29       | 136.90    | 100         | Horizontal | Pass    |
| 5869.366        | 53.20               | --                    | --                     | 2.60        | 106.8             | --                | --                | 53.60       | 186.50    | 100         | Horizontal | Pass    |
| 5901.862        | 53.85               | --                    | --                     | 3.49        | 85.3              | --                | --                | 31.45       | 236.40    | 100         | Horizontal | Pass    |
| 5958.955        | 54.22               | --                    | --                     | 4.05        | 68.2              | --                | --                | 13.98       | 347.40    | 100         | Horizontal | Pass    |

### Band IV 11n(HT20) CH149 ANT V



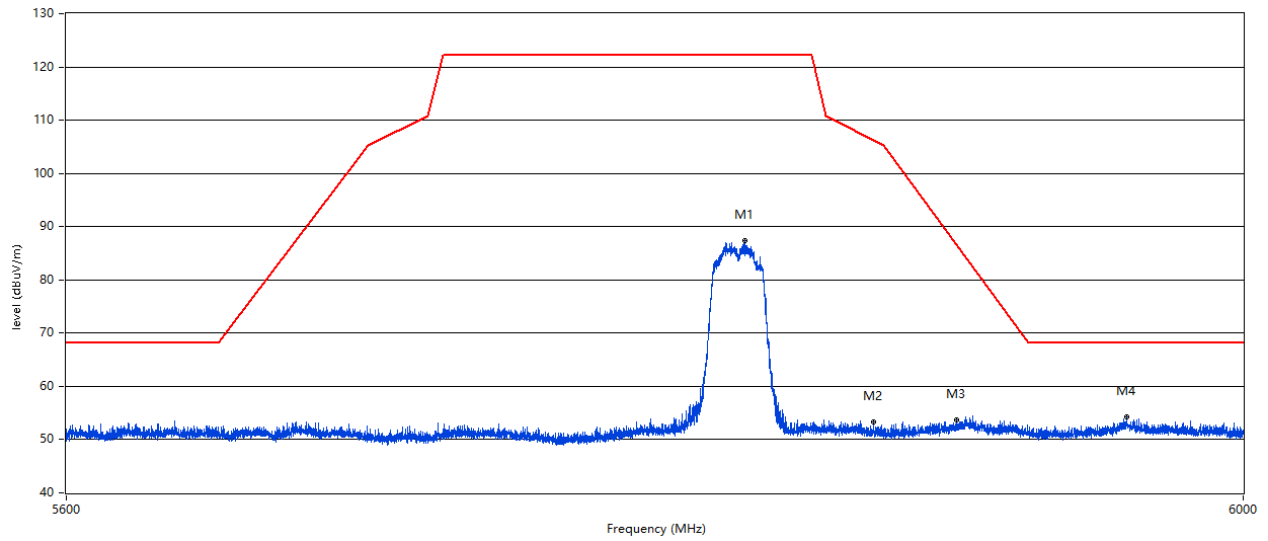
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5636.445           | 52.89                     | --                          | --                           | 2.61           | 68.2                 | --                   | --                   | 15.31          | 242.80    | 100            | Vertical | Pass    |
| 5678.740           | 52.88                     | --                          | --                           | 2.77           | 89.5                 | --                   | --                   | 36.62          | 335.20    | 100            | Vertical | Pass    |
| 5707.987           | 52.21                     | --                          | --                           | 1.44           | 107.4                | --                   | --                   | 55.19          | 289.20    | 100            | Vertical | Pass    |
| 5743.332           | 89.98                     | --                          | --                           | 1.94           | 122.2                | --                   | --                   | 32.22          | 89.80     | 100            | Vertical | Pass    |

### Band IV 11n(HT20) CH149 ANT H



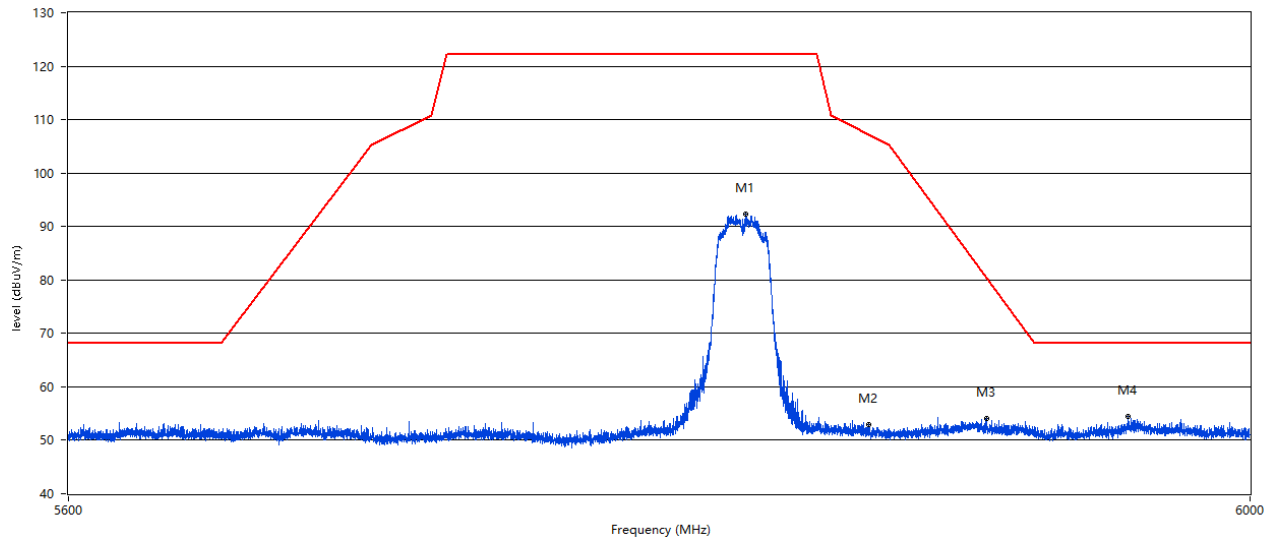
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5644.644           | 53.50                     | --                          | --                           | 2.15           | 68.2                 | --                   | --                   | 14.70          | 139.80    | 100            | Horizontal | Pass    |
| 5679.740           | 53.26                     | --                          | --                           | 2.72           | 90.2                 | --                   | --                   | 36.94          | 197.40    | 100            | Horizontal | Pass    |
| 5712.186           | 52.36                     | --                          | --                           | 1.59           | 108.6                | --                   | --                   | 56.24          | 34.10     | 100            | Horizontal | Pass    |
| 5740.582           | 94.75                     | --                          | --                           | 1.89           | 122.2                | --                   | --                   | 27.45          | 128.00    | 100            | Horizontal | Pass    |

### Band IV 11n(HT20) CH165 ANT V



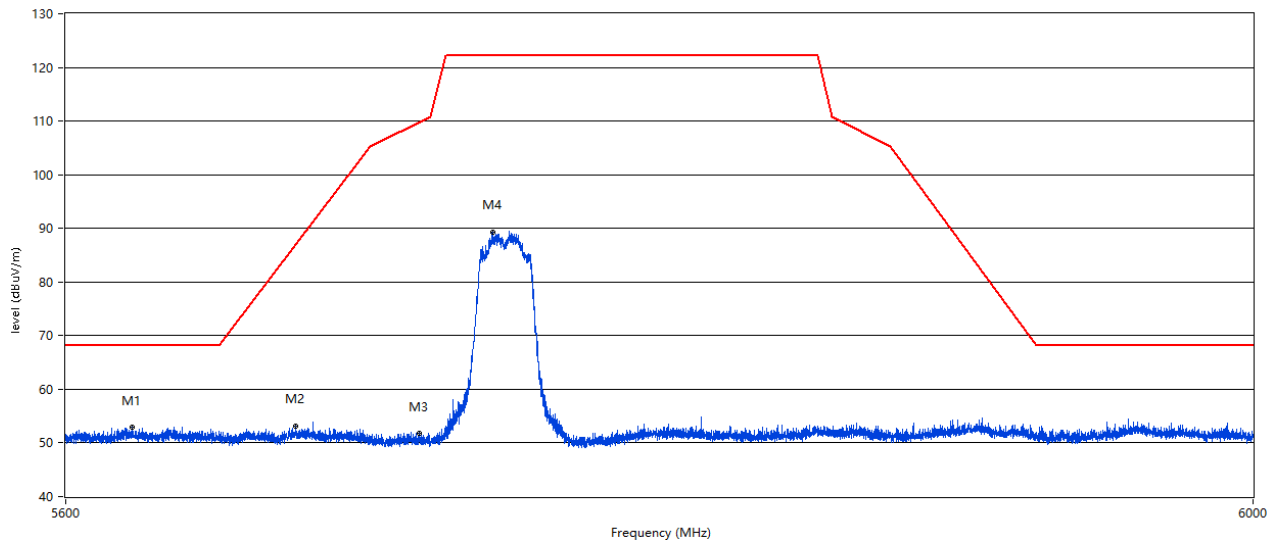
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5827.222           | 87.29                     | --                          | --                           | 2.42           | 122.2                | --                   | --                   | 34.91          | 210.70    | 100            | Vertical | Pass    |
| 5871.316           | 53.25                     | --                          | --                           | 2.49           | 106.2                | --                   | --                   | 52.95          | 88.90     | 100            | Vertical | Pass    |
| 5900.012           | 53.69                     | --                          | --                           | 3.26           | 86.7                 | --                   | --                   | 33.01          | 111.90    | 100            | Vertical | Pass    |
| 5959.255           | 54.27                     | --                          | --                           | 4.06           | 68.2                 | --                   | --                   | 13.93          | 360.00    | 100            | Vertical | Pass    |

### Band IV 11n(HT20) CH165 ANT H



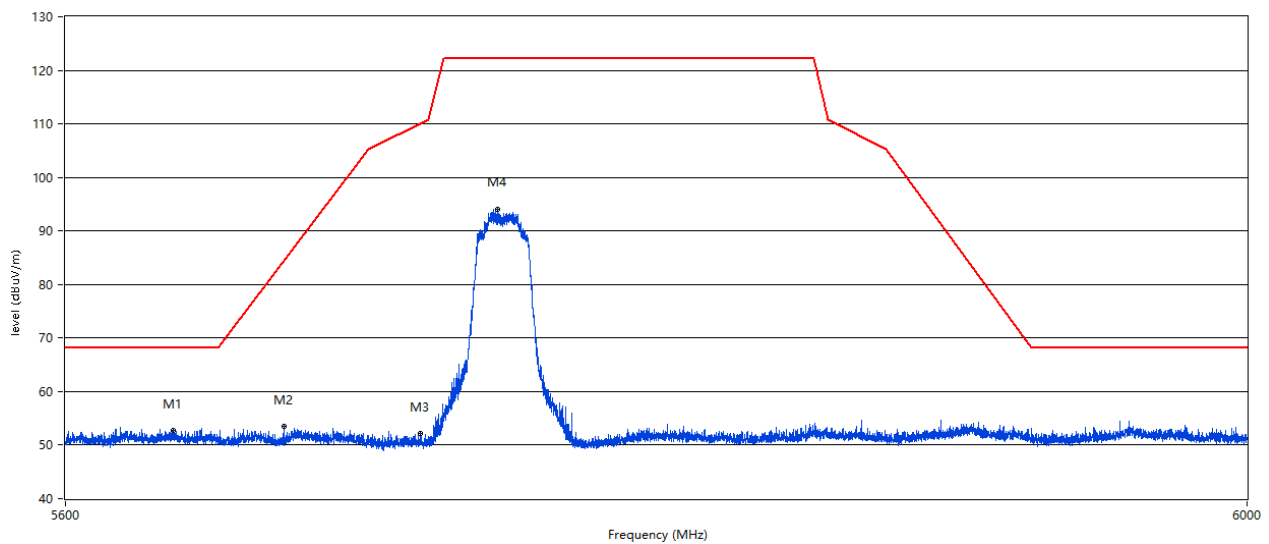
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5825.922           | 92.26                     | --                          | --                           | 2.42           | 122.2                | --                   | --                   | 29.94          | 121.80    | 100            | Horizontal | Pass    |
| 5867.717           | 52.99                     | --                          | --                           | 2.75           | 107.2                | --                   | --                   | 54.21          | 121.80    | 100            | Horizontal | Pass    |
| 5908.311           | 54.11                     | --                          | --                           | 3.33           | 80.5                 | --                   | --                   | 26.39          | 334.40    | 100            | Horizontal | Pass    |
| 5957.505           | 54.45                     | --                          | --                           | 3.76           | 68.2                 | --                   | --                   | 13.75          | 241.20    | 100            | Horizontal | Pass    |

## Band IV 11ac(HT20) CH149 ANT V



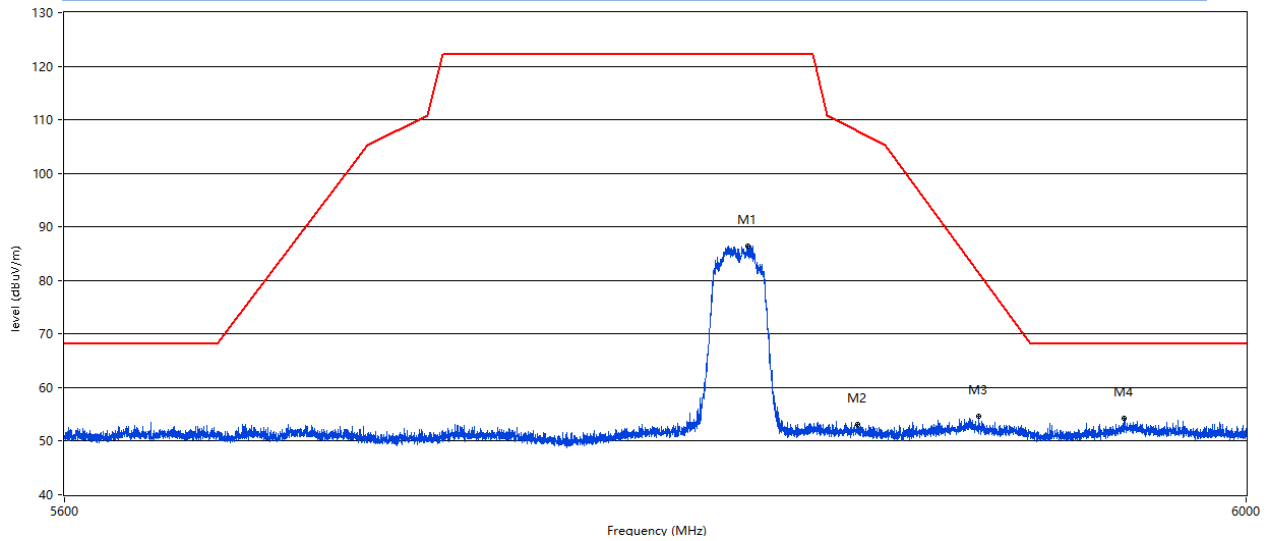
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5621.547           | 52.87                     | --                          | --                           | 3.10           | 68.2                 | --                   | --                   | 15.33          | 6.90      | 100            | Vertical | Pass    |
| 5675.391           | 53.20                     | --                          | --                           | 2.68           | 87.0                 | --                   | --                   | 33.80          | 202.80    | 100            | Vertical | Pass    |
| 5716.085           | 51.80                     | --                          | --                           | 1.56           | 109.7                | --                   | --                   | 57.90          | 218.20    | 100            | Vertical | Pass    |
| 5740.882           | 89.24                     | --                          | --                           | 1.90           | 122.2                | --                   | --                   | 32.96          | 88.20     | 100            | Vertical | Pass    |

## Band IV 11ac(HT20) CH149 ANT H



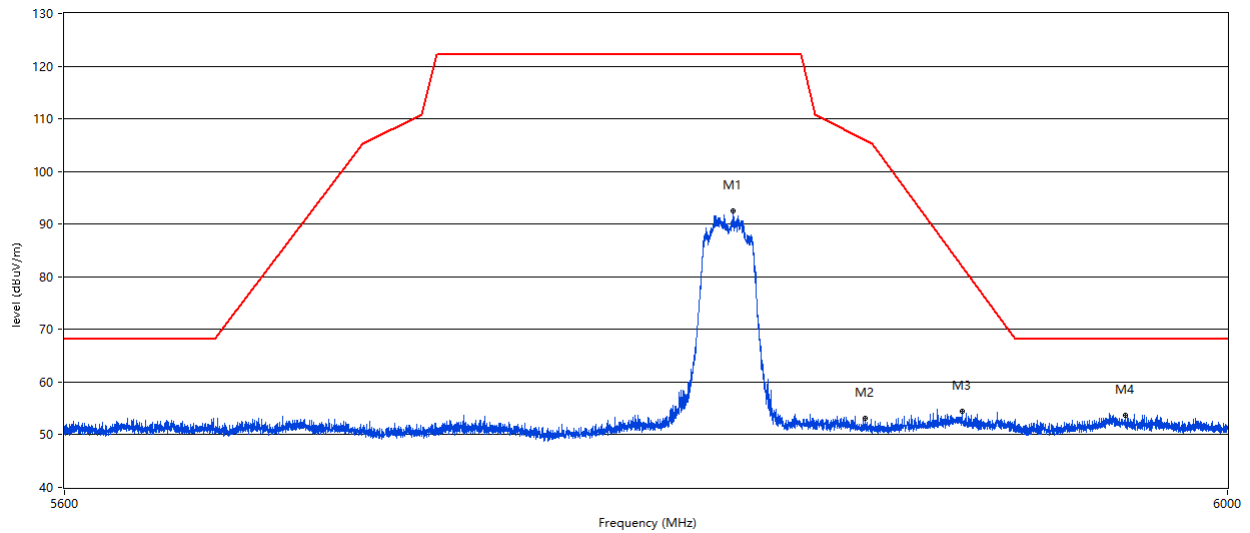
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5635.346           | 52.72                     | --                          | --                           | 2.78           | 68.2                 | --                   | --                   | 15.48          | 92.40     | 100            | Horizontal | Pass    |
| 5672.041           | 53.42                     | --                          | --                           | 2.24           | 84.6                 | --                   | --                   | 31.18          | 270.60    | 100            | Horizontal | Pass    |
| 5717.185           | 52.15                     | --                          | --                           | 1.50           | 110.0                | --                   | --                   | 57.85          | 169.80    | 100            | Horizontal | Pass    |
| 5743.032           | 94.13                     | --                          | --                           | 1.93           | 122.2                | --                   | --                   | 28.07          | 123.30    | 100            | Horizontal | Pass    |

### Band IV 11ac(HT20) CH165 ANT V



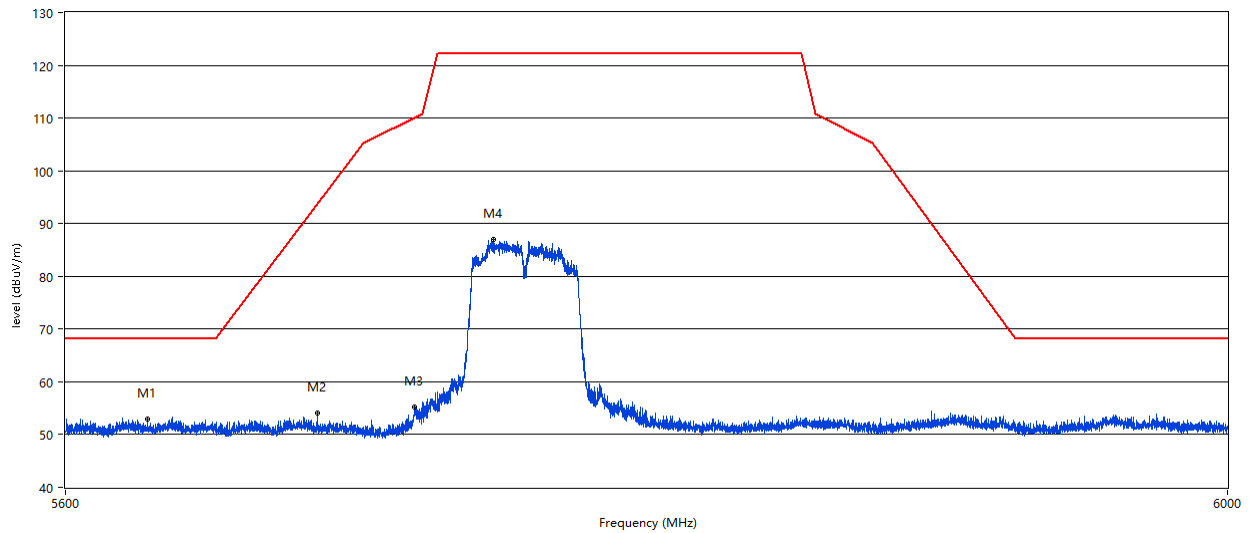
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5827.872           | 86.40                     | --                          | --                           | 2.42           | 122.2                | --                   | --                   | 35.80          | 80.60     | 100            | Vertical | Pass    |
| 5865.417           | 53.11                     | --                          | --                           | 2.96           | 107.9                | --                   | --                   | 54.79          | 107.30    | 100            | Vertical | Pass    |
| 5907.012           | 54.64                     | --                          | --                           | 3.46           | 81.5                 | --                   | --                   | 26.86          | 264.90    | 100            | Vertical | Pass    |
| 5957.455           | 54.21                     | --                          | --                           | 3.75           | 68.2                 | --                   | --                   | 13.99          | 222.40    | 100            | Vertical | Pass    |

### Band IV 11ac(HT20) CH165 ANT H



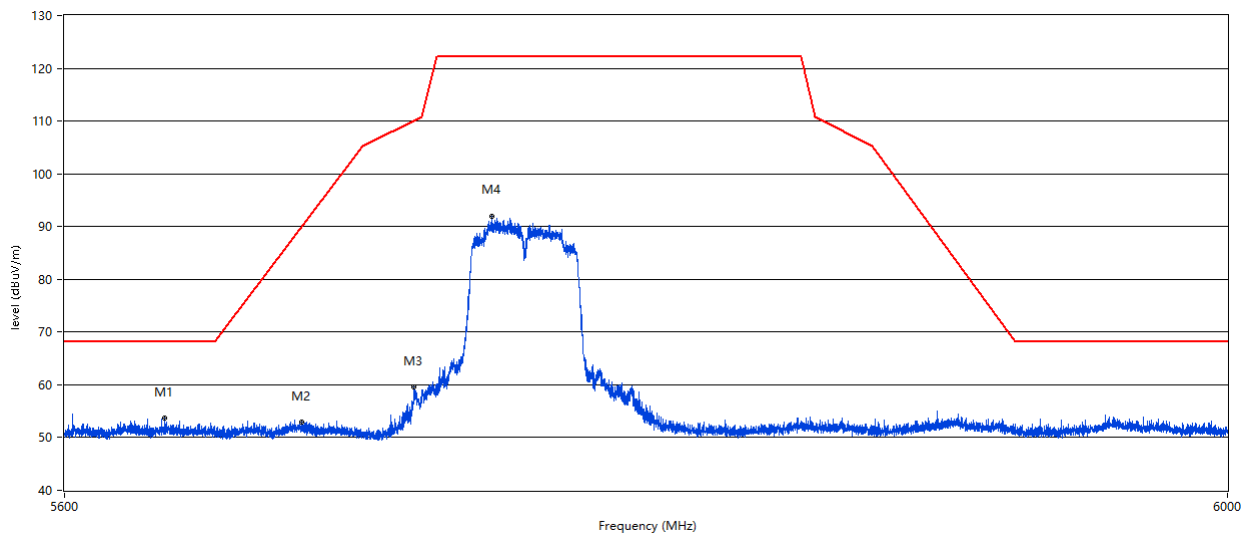
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5826.522           | 92.55                     | --                          | --                           | 2.42           | 122.2                | --                   | --                   | 29.65          | 138.60    | 100            | Horizontal | Pass    |
| 5872.366           | 53.08                     | --                          | --                           | 2.43           | 105.9                | --                   | --                   | 52.82          | 272.30    | 100            | Horizontal | Pass    |
| 5906.262           | 54.43                     | --                          | --                           | 3.54           | 82.0                 | --                   | --                   | 27.57          | 134.60    | 100            | Horizontal | Pass    |
| 5963.755           | 53.75                     | --                          | --                           | 3.69           | 68.2                 | --                   | --                   | 14.45          | 50.10     | 100            | Horizontal | Pass    |

### Band IV 11n(HT40) CH151 ANT V



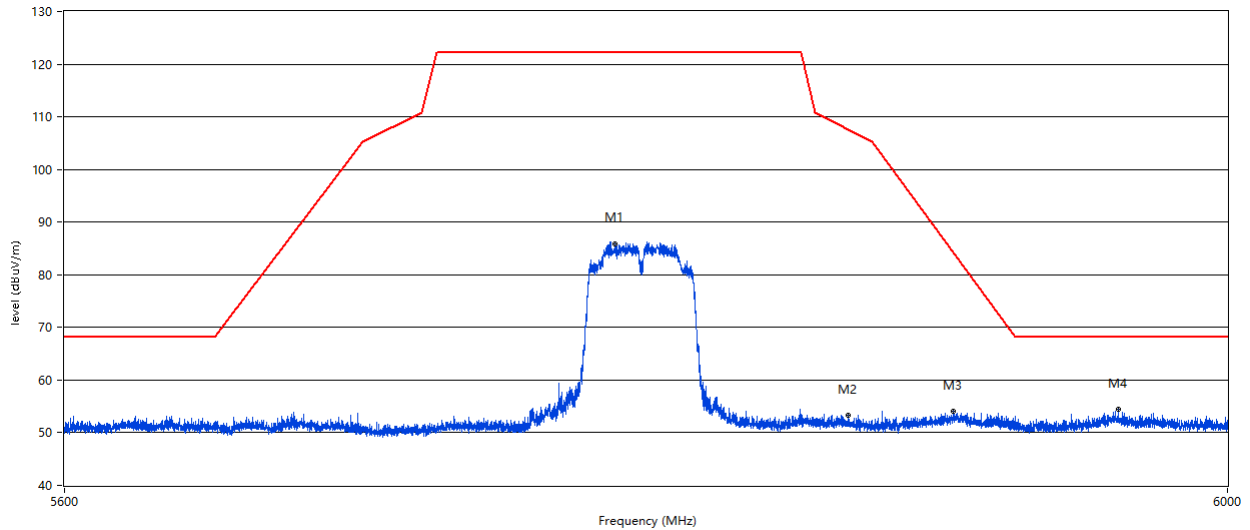
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5627.247           | 52.95                     | --                          | --                           | 2.61           | 68.2                 | --                   | --                   | 15.25          | 209.20    | 100            | Vertical | Pass    |
| 5684.289           | 54.11                     | --                          | --                           | 2.02           | 93.6                 | --                   | --                   | 39.49          | 350.30    | 100            | Vertical | Pass    |
| 5717.135           | 55.19                     | --                          | --                           | 1.50           | 110.0                | --                   | --                   | 54.81          | 90.30     | 100            | Vertical | Pass    |
| 5744.132           | 87.03                     | --                          | --                           | 1.95           | 122.2                | --                   | --                   | 35.17          | 105.90    | 100            | Vertical | Pass    |

### Band IV 11n(HT40) CH151 ANT H



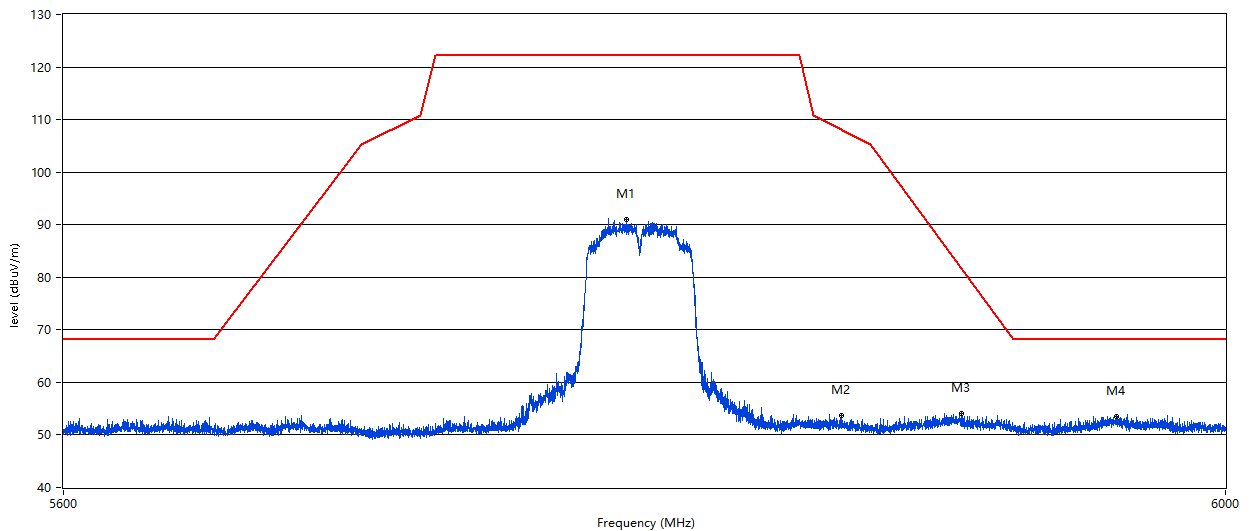
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5633.496           | 53.72                     | --                          | --                           | 2.83           | 68.2                 | --                   | --                   | 14.48          | 276.00    | 100            | Horizontal | Pass    |
| 5679.290           | 52.88                     | --                          | --                           | 2.78           | 89.9                 | --                   | --                   | 37.02          | 225.80    | 100            | Horizontal | Pass    |
| 5717.335           | 59.58                     | --                          | --                           | 1.49           | 110.1                | --                   | --                   | 50.52          | 121.50    | 100            | Horizontal | Pass    |
| 5743.732           | 92.03                     | --                          | --                           | 1.94           | 122.2                | --                   | --                   | 30.17          | 125.50    | 100            | Horizontal | Pass    |

### Band IV 11n(HT40) CH159 ANT V



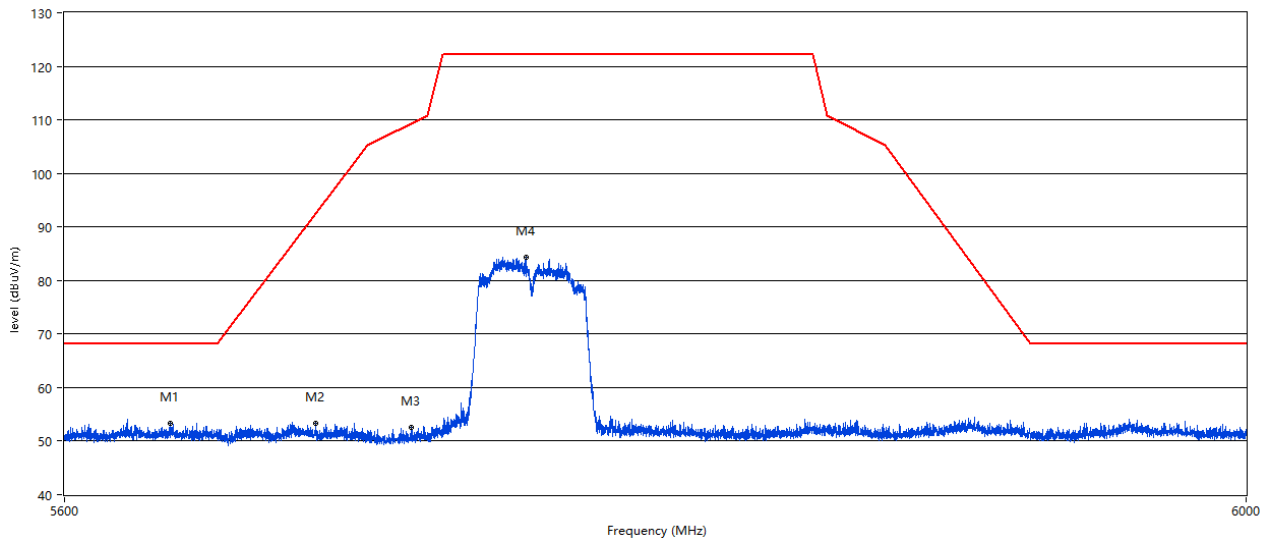
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5785.977           | 85.95                     | --                          | --                           | 2.25           | 122.2                | --                   | --                   | 36.25          | 93.20     | 100            | Vertical | Pass    |
| 5866.417           | 53.27                     | --                          | --                           | 2.86           | 107.6                | --                   | --                   | 54.33          | 240.20    | 100            | Vertical | Pass    |
| 5903.112           | 54.09                     | --                          | --                           | 3.64           | 84.4                 | --                   | --                   | 30.31          | 1.80      | 100            | Vertical | Pass    |
| 5961.305           | 54.38                     | --                          | --                           | 3.89           | 68.2                 | --                   | --                   | 13.82          | 77.60     | 100            | Vertical | Pass    |

### Band IV 11n(HT40) CH159 ANT H



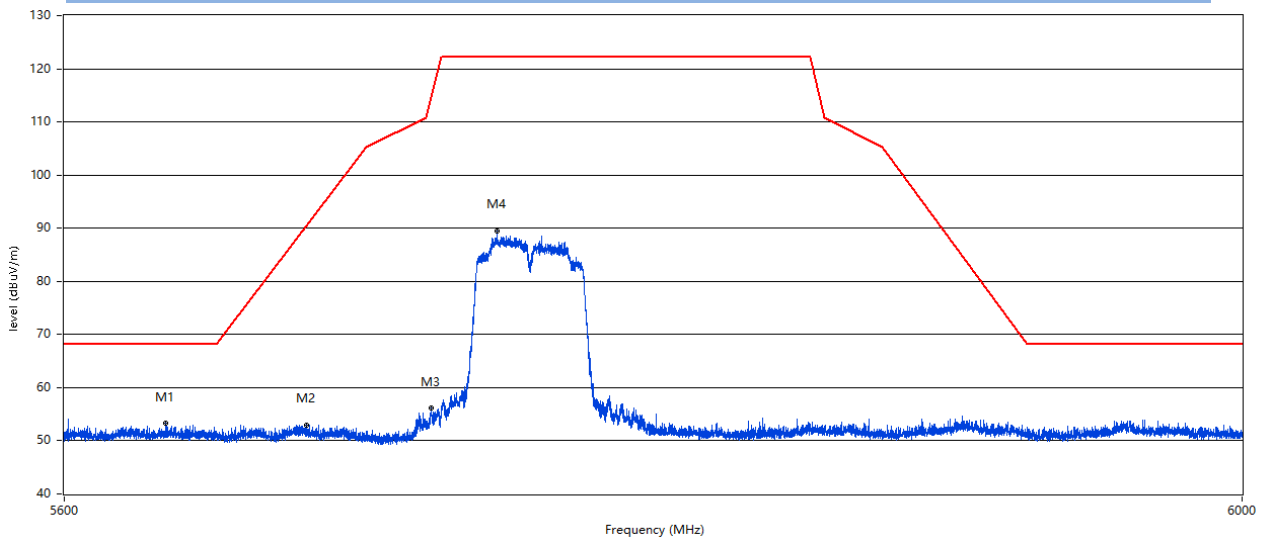
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5790.376           | 90.91                     | --                          | --                           | 2.47           | 122.2                | --                   | --                   | 31.29          | 127.20    | 100            | Horizontal | Pass    |
| 5864.617           | 53.67                     | --                          | --                           | 3.03           | 108.1                | --                   | --                   | 54.43          | 358.30    | 100            | Horizontal | Pass    |
| 5906.762           | 53.99                     | --                          | --                           | 3.49           | 81.7                 | --                   | --                   | 27.71          | 204.80    | 100            | Horizontal | Pass    |
| 5961.455           | 53.42                     | --                          | --                           | 3.88           | 68.2                 | --                   | --                   | 14.78          | 200.90    | 100            | Horizontal | Pass    |

### Band IV 11ac(HT40) CH151 ANT V



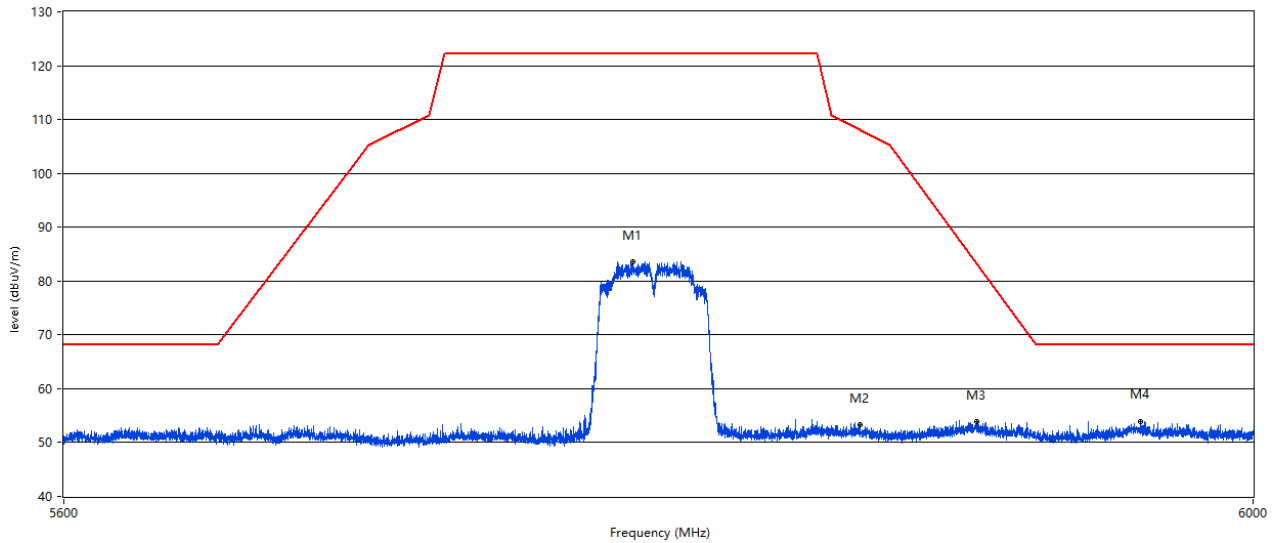
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 5634.646        | 53.30               | --                    | --                     | 2.89        | 68.2              | --                | --                | 14.90       | 80.00     | 100         | Vertical | Pass    |
| 5682.640        | 53.26               | --                    | --                     | 2.27        | 92.4              | --                | --                | 39.14       | 360.00    | 100         | Vertical | Pass    |
| 5714.436        | 52.58               | --                    | --                     | 1.67        | 109.2             | --                | --                | 56.62       | 340.70    | 100         | Vertical | Pass    |
| 5752.881        | 84.33               | --                    | --                     | 1.79        | 122.2             | --                | --                | 37.87       | 87.70     | 100         | Vertical | Pass    |

### Band IV 11ac(HT40) CH151 ANT H



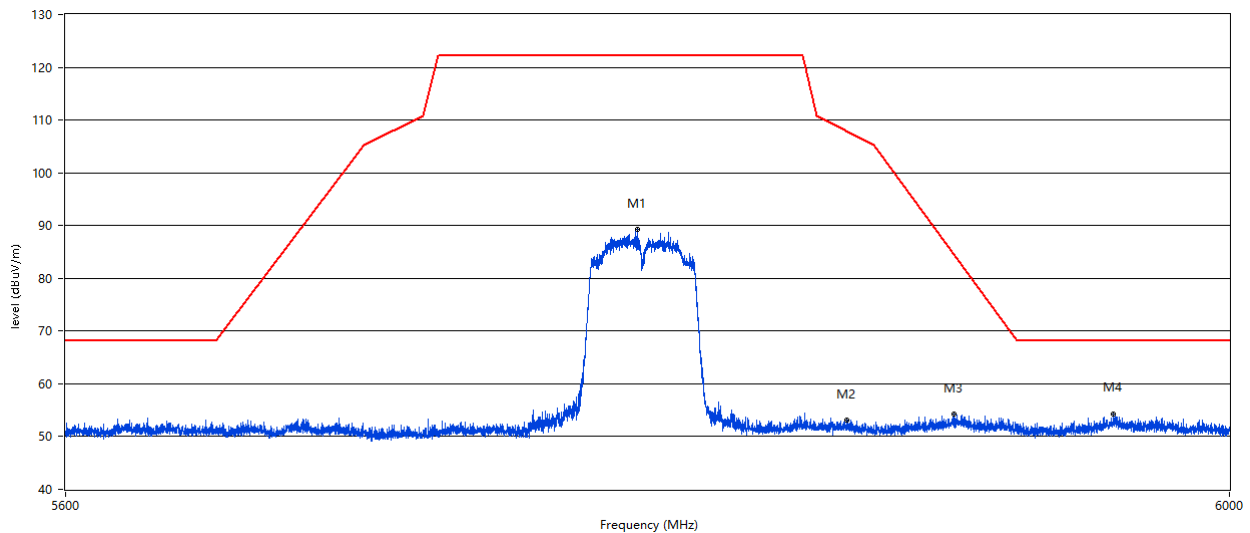
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 5633.246        | 53.28               | --                    | --                     | 2.81        | 68.2              | --                | --                | 14.92       | 177.40    | 100         | Horizontal | Pass    |
| 5679.940        | 53.03               | --                    | --                     | 2.69        | 90.4              | --                | --                | 37.37       | 200.40    | 100         | Horizontal | Pass    |
| 5721.635        | 56.15               | --                    | --                     | 1.52        | 114.5             | --                | --                | 58.35       | 126.20    | 100         | Horizontal | Pass    |
| 5743.732        | 89.57               | --                    | --                     | 1.94        | 122.2             | --                | --                | 32.63       | 130.20    | 100         | Horizontal | Pass    |

### Band IV 11ac(HT40) CH159 ANT V



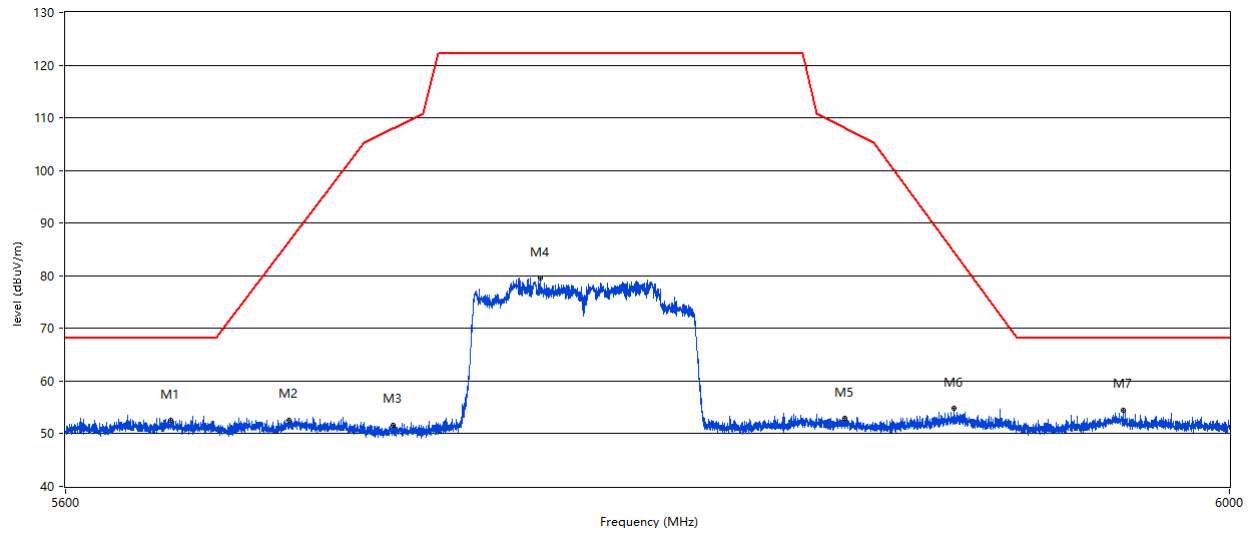
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5788.076           | 83.50                     | --                          | --                           | 2.37           | 122.2                | --                   | --                   | 38.70          | 91.90     | 100            | Vertical | Pass    |
| 5864.617           | 53.29                     | --                          | --                           | 3.03           | 108.1                | --                   | --                   | 54.81          | 195.00    | 100            | Vertical | Pass    |
| 5904.512           | 53.87                     | --                          | --                           | 3.72           | 83.3                 | --                   | --                   | 29.43          | 271.30    | 100            | Vertical | Pass    |
| 5960.805           | 53.98                     | --                          | --                           | 3.93           | 68.2                 | --                   | --                   | 14.22          | 69.20     | 100            | Vertical | Pass    |

### Band IV 11ac(HT40) CH159 ANT H



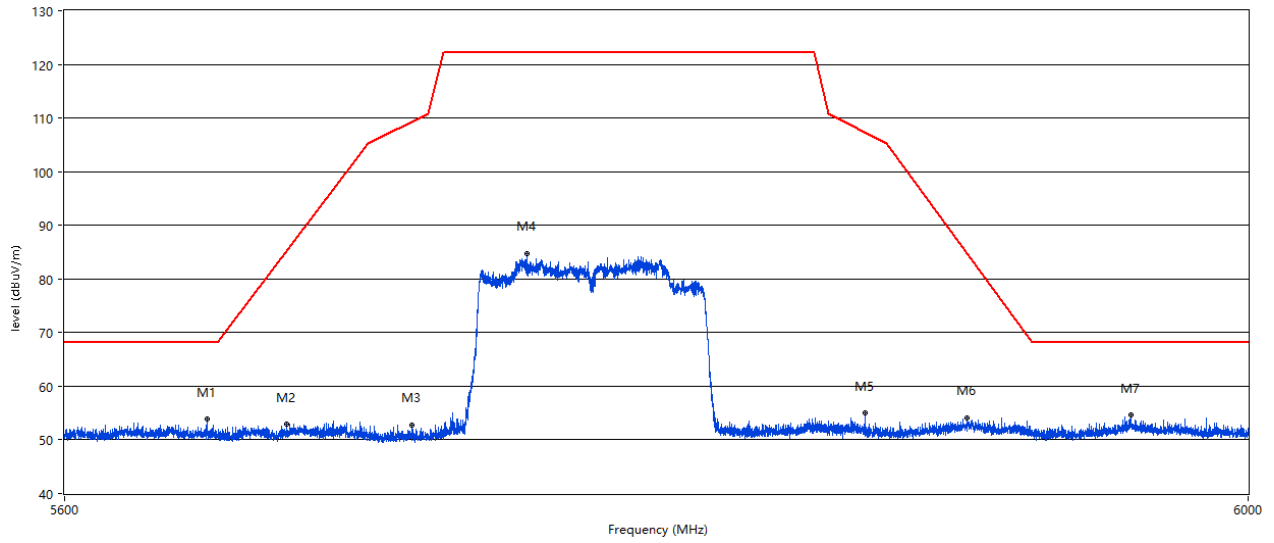
| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5793.126           | 89.21                     | --                          | --                           | 2.54           | 122.2                | --                   | --                   | 32.99          | 120.10    | 100            | Horizontal | Pass    |
| 5865.567           | 53.15                     | --                          | --                           | 2.94           | 107.8                | --                   | --                   | 54.65          | 190.10    | 100            | Horizontal | Pass    |
| 5902.662           | 54.25                     | --                          | --                           | 3.58           | 84.7                 | --                   | --                   | 30.45          | 120.10    | 100            | Horizontal | Pass    |
| 5958.755           | 54.36                     | --                          | --                           | 4.01           | 68.2                 | --                   | --                   | 13.84          | 0.00      | 100            | Horizontal | Pass    |

## Band IV 11ac(HT80) CH155 ANT V



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT      | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 5634.896           | 52.63                     | --                          | --                           | 2.85           | 68.2                 | --                   | --                   | 15.57          | 356.70    | 100            | Vertical | Pass    |
| 5674.741           | 52.62                     | --                          | --                           | 2.66           | 86.5                 | --                   | --                   | 33.88          | 3.30      | 100            | Vertical | Pass    |
| 5709.736           | 51.55                     | --                          | --                           | 1.50           | 107.9                | --                   | --                   | 56.35          | 253.00    | 100            | Vertical | Pass    |
| 5759.680           | 79.57                     | --                          | --                           | 1.83           | 122.2                | --                   | --                   | 42.63          | 83.70     | 100            | Vertical | Pass    |
| 5864.617           | 52.90                     | --                          | --                           | 3.03           | 108.1                | --                   | --                   | 55.20          | 356.70    | 100            | Vertical | Pass    |
| 5902.762           | 54.78                     | --                          | --                           | 3.60           | 84.6                 | --                   | --                   | 29.82          | 156.90    | 100            | Vertical | Pass    |
| 5962.255           | 54.51                     | --                          | --                           | 3.81           | 68.2                 | --                   | --                   | 13.69          | 145.50    | 100            | Vertical | Pass    |

## Band IV 11ac(HT80) CH155 ANT H



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 5646.594           | 53.93                     | --                          | --                           | 2.15           | 68.2                 | --                   | --                   | 14.27          | 320.40    | 100            | Horizontal | Pass    |
| 5673.041           | 52.97                     | --                          | --                           | 2.42           | 85.3                 | --                   | --                   | 32.33          | 1.60      | 100            | Horizontal | Pass    |
| 5714.636           | 52.84                     | --                          | --                           | 1.65           | 109.3                | --                   | --                   | 56.46          | 92.40     | 100            | Horizontal | Pass    |
| 5753.031           | 84.78                     | --                          | --                           | 1.79           | 122.2                | --                   | --                   | 37.42          | 123.50    | 100            | Horizontal | Pass    |
| 5867.517           | 54.99                     | --                          | --                           | 2.76           | 107.3                | --                   | --                   | 52.31          | 351.60    | 100            | Horizontal | Pass    |
| 5902.462           | 54.17                     | --                          | --                           | 3.56           | 84.8                 | --                   | --                   | 30.63          | 158.10    | 100            | Horizontal | Pass    |
| 5959.005           | 54.60                     | --                          | --                           | 4.06           | 68.2                 | --                   | --                   | 13.60          | 158.10    | 100            | Horizontal | Pass    |

## A.8 Frequency Stability

Measurement Data (the worst channel)

### Voltage vs. Frequency Stability (5180 MHz)

| Test Conditions |               | Test Frequency (MHz) | 0 Minute                    |                      | 2 Minute                    |                      | 5 Minute                    |                      | 10Minute                    |                      |
|-----------------|---------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|
| TEMP. (°C)      | Voltage (VDC) |                      | Measurement Frequency (MHz) | Max. Deviation (ppm) | Measurement Frequency (MHz) | Max. Deviation (ppm) | Measurement Frequency (MHz) | Max. Deviation (ppm) | Measurement Frequency (MHz) | Max. Deviation (ppm) |
| 20              | 11.1          | 5180                 | 5180.002691                 | 0.52                 | 5180.018219                 | 3.52                 | 5180.003641                 | 0.70                 | 5180.001313                 | 0.25                 |
|                 | 11.4          | 5180                 | 5180.042166                 | 8.14                 | 5180.003499                 | 0.68                 | 5180.013558                 | 2.62                 | 5180.038514                 | 7.44                 |
|                 | 13.05         | 5180                 | 5180.040603                 | 7.84                 | 5180.02616                  | 5.05                 | 5180.012951                 | 2.50                 | 5180.020414                 | 3.94                 |

### Temperature vs. Frequency Stability (5180 MHz)

| Test Conditions |            | Test Frequency (MHz) | 0 Minute                    |                      | 2 Minute                    |                      | 5 Minute                    |                      | 10Minute                    |                      |
|-----------------|------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|
| Voltage (VDC)   | TEMP. (°C) |                      | Measurement Frequency (MHz) | Max. Deviation (ppm) | Measurement Frequency (MHz) | Max. Deviation (ppm) | Measurement Frequency (MHz) | Max. Deviation (ppm) | Measurement Frequency (MHz) | Max. Deviation (ppm) |
| 11.4            | -20        | 5180                 | 5180.029439                 | 5.68                 | 5180.030229                 | 5.84                 | 5180.026393                 | 5.10                 | 5180.025384                 | 4.90                 |
|                 | -10        | 5180                 | 5180.038908                 | 7.51                 | 5180.018751                 | 3.62                 | 5180.036879                 | 7.12                 | 5180.036764                 | 7.10                 |
|                 | 0          | 5180                 | 5180.019917                 | 3.84                 | 5180.002367                 | 0.46                 | 5180.010758                 | 2.08                 | 5180.009606                 | 1.85                 |
|                 | 10         | 5180                 | 5180.017623                 | 3.40                 | 5180.000156                 | 0.03                 | 5180.019892                 | 3.84                 | 5180.029336                 | 5.66                 |
|                 | 20         | 5180                 | 5180.039996                 | 7.72                 | 5180.014604                 | 2.82                 | 5180.038987                 | 7.53                 | 5180.026609                 | 5.14                 |
|                 | 30         | 5180                 | 5180.010088                 | 1.95                 | 5180.019697                 | 3.80                 | 5180.016817                 | 3.25                 | 5180.039659                 | 7.66                 |
|                 | 40         | 5180                 | 5180.005472                 | 1.06                 | 5180.030093                 | 5.81                 | 5180.031668                 | 6.11                 | 5180.033156                 | 6.40                 |
|                 | 50         | 5180                 | 5180.027598                 | 5.33                 | 5180.003367                 | 0.65                 | 5180.028625                 | 5.53                 | 5180.043783                 | 8.45                 |
|                 | 55         | 5180                 | 5180.024686                 | 4.77                 | 5180.043125                 | 8.33                 | 5180.000159                 | 0.03                 | 5180.020835                 | 4.02                 |

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document "BL-EC1830163-AR.PDF".

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document "BL- EC1830163-AW.PDF".

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document "BL- EC1830163-AI.PDF".

--END OF REPORT--