

# **FCC REPORT**

## **(UNII)**

**Applicant:** COPPERNIC

**Address of Applicant:** 185 avenue Archimede, 13857 Aix en Provence, FRANCE

**Equipment Under Test (EUT)**

Product Name: C-One e-ID, RAPID3

Model No.: C-One e-ID

Trade mark: COPPERNIC, IDEMIA

**FCC ID:** XGK-C-ONE-EID-ELY

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart E Section 15.407

**Date of sample receipt:** 11 Nov., 2019

**Date of Test:** 12 Nov., to 30 Dec., 2019

**Date of report issued:** 31 Dec., 2019

**Test Result:** PASS\*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 31 Dec., 2019 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Tested by:

*Mike.ou*

Test Engineer

Date:

31 Dec., 2019

Reviewed by:

*Winner Zhang*

Project Engineer

Date:

31 Dec., 2019

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## 4 Test Summary

| Test Item                                                                                                                                                                                                                                                    | Section in CFR 47                                                                                   | Test Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------|
| Antenna requirement                                                                                                                                                                                                                                          | 15.203 & 15.407 (a)                                                                                 | Pass        |
| AC Power Line Conducted Emission                                                                                                                                                                                                                             | 15.207                                                                                              | Pass        |
| Conducted Peak Output Power                                                                                                                                                                                                                                  | 15.407 (a) (1) (iv) & (a) (3)                                                                       | Pass        |
| 26dB Occupied Bandwidth                                                                                                                                                                                                                                      | 15.407 (a) (5)                                                                                      | Pass        |
| 6dB Emission Bandwidth                                                                                                                                                                                                                                       | 15.407(e)                                                                                           | Pass        |
| Power Spectral Density                                                                                                                                                                                                                                       | 15.407 (a) (1) (iv) & (a) (3)                                                                       | Pass        |
| Band Edge                                                                                                                                                                                                                                                    | 15.407(b)                                                                                           | Pass        |
| Spurious Emission                                                                                                                                                                                                                                            | 15.407 (b) & 15.205 & 15.209                                                                        | Pass        |
| Frequency Stability                                                                                                                                                                                                                                          | 15.407(g)                                                                                           | Pass        |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. N/A: Not Applicable.<br>3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer). |                                                                                                     |             |
| <b>Test Method:</b>                                                                                                                                                                                                                                          | ANSI C63.4-2014<br>ANSI C63.10-2013<br>KDB 789033 D02 General UNII Test Procedures New Rules v02r01 |             |

## 5 General Information

### 5.1 Client Information

|               |                                                                  |
|---------------|------------------------------------------------------------------|
| Applicant:    | COPPERNIC                                                        |
| Address:      | 185 avenue Archimede, 13857 Aix en Provence, FRANCE              |
| Manufacturer: | ASKEY COMPUTER Corp.                                             |
| Address:      | 10 F, N°119, JIANKANG RD., ZHONGHE DIST., New Tapei City, TAIWAN |

### 5.2 General Description of E.U.T.

|                                        |                                                                                                                                                                                                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                          | C-One e-ID, RAPID3                                                                                                                                                                                                                                    |
| Model No.:                             | C-One e-ID                                                                                                                                                                                                                                            |
| Operation Frequency:                   | Band 1: 5150MHz-5250MHz,<br>Band 4: 5725MHz-5825MHz                                                                                                                                                                                                   |
| Channel numbers:                       | Band 1: 802.11a/n20/ac20: 4, 802.11n40/ac40: 2, 802.11ac80: 1<br>Band 4: 802.11a/802.11n20/ac20: 5, 802.11n40/ac40: 2, 802.11ac80: 1                                                                                                                  |
| Channel separation:                    | 802.11a/802.11n20/ac20: 20MHz, 802.11n40/ac40: 40MHz, 802.11ac80: 80MHz                                                                                                                                                                               |
| Modulation technology (IEEE 802.11a):  | BPSK, QPSK, 16-QAM, 64-QAM                                                                                                                                                                                                                            |
| Modulation technology (IEEE 802.11n):  | BPSK, QPSK, 16-QAM, 64-QAM                                                                                                                                                                                                                            |
| Modulation technology (IEEE 802.11ac): | BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM                                                                                                                                                                                                                   |
| Data speed (IEEE 802.11a):             | 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps                                                                                                                                                                                          |
| Data speed (IEEE 802.11n20):           | MCS0: 6.5Mbps, MCS1:13Mbps, MCS2:19.5Mbps, MCS3:26Mbps, MCS4:39Mbps, MCS5:52Mbps, MCS6:58.5Mbps, MCS7:65Mbps                                                                                                                                          |
| Data speed (IEEE 802.11n40):           | MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps, MCS4:90Mbps, MCS5:120Mbps, MCS6:135Mbps, MCS7:150Mbps                                                                                                                                             |
| Data speed (IEEE 802.11ac):            | Up to 433.3Mbps                                                                                                                                                                                                                                       |
| Antenna Type:                          | Internal Antenna                                                                                                                                                                                                                                      |
| Antenna gain:                          | 3.59 dBi                                                                                                                                                                                                                                              |
| Power supply:                          | Rechargeable Li-ion Battery DC3.7V/3300mAh                                                                                                                                                                                                            |
| AC adapter:                            | Model No.: SYS1561-1105-1<br>Input: AC100-240V, 50/60Hz 1.0 A<br>Output: DC 5.35V, 2.0A                                                                                                                                                               |
| Test Sample Condition:                 | The test samples were provided in good working order with no visible defects.                                                                                                                                                                         |
| Remark:                                | Product Name: C-One e-ID, RAPID3 were identical inside, the electrical circuit design, layout, components used and internal wiring. They only differences were Trade mark:<br>C-One e-ID (for trade mark COPPERNIC)<br>RAPID3 (for trade mark IDEMIA) |

| Operation Frequency each of channel |           |                |           |            |           |
|-------------------------------------|-----------|----------------|-----------|------------|-----------|
| Band 1                              |           |                |           |            |           |
| 802.11a/n20/ac20                    |           | 802.11n40/ac40 |           | 802.11ac80 |           |
| Channel                             | Frequency | Channel        | Frequency | Channel    | Frequency |
| 36                                  | 5180MHz   | 38             | 5190MHz   | 42         | 5210MHz   |
| 40                                  | 5200MHz   | 46             | 5230MHz   |            |           |
| 44                                  | 5220MHz   |                |           |            |           |
| 48                                  | 5240MHz   |                |           |            |           |
| Band 4                              |           |                |           |            |           |
| 802.11a/n20/ac20                    |           | 802.11n40/ac40 |           | 802.11ac80 |           |
| Channel                             | Frequency | Channel        | Frequency | Channel    | Frequency |
| 149                                 | 5745MHz   | 151            | 5755MHz   | 155        | 5775MHz   |
| 153                                 | 5765MHz   | 159            | 5795MHz   |            |           |
| 157                                 | 5785MHz   |                |           |            |           |
| 161                                 | 5805MHz   |                |           |            |           |
| 165                                 | 5825MHz   |                |           |            |           |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Band 1           |           |                |           |            |           |
|------------------|-----------|----------------|-----------|------------|-----------|
| 802.11a/n20/ac20 |           | 802.11n40/ac40 |           | 802.11ac80 |           |
| Channel          | Frequency | Channel        | Frequency | Channel    | Frequency |
| Lowest           | 5180MHz   | Lowest         | 5190MHz   | Middle     | 5210MHz   |
| Middle           | 5200MHz   | Highest        | 5230MHz   |            |           |
| Highest          | 5240MHz   |                |           |            |           |
| Band 4           |           |                |           |            |           |
| 802.11a/n20/ac20 |           | 802.11n40/ac40 |           | 802.11ac80 |           |
| Channel          | Frequency | Channel        | Frequency | Channel    | Frequency |
| Lowest           | 5745MHz   | Lowest         | 5755MHz   | Middle     | 5775MHz   |
| Middle           | 5785MHz   | Highest        | 5795MHz   |            |           |
| Highest          | 5825MHz   |                |           |            |           |

### 5.3 Test environment and test mode

| Operating Environment:                                                                                                                                                                                       |                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Temperature:                                                                                                                                                                                                 | 24.0 °C                                                       |
| Humidity:                                                                                                                                                                                                    | 54 % RH                                                       |
| Atmospheric Pressure:                                                                                                                                                                                        | 1010 mbar                                                     |
| Test mode:                                                                                                                                                                                                   |                                                               |
| Continuously transmitting mode                                                                                                                                                                               | Keep the EUT in 100% duty cycle transmitting with modulation. |
| We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows: |                                                               |
| Per-scan all kind of data rate, and found the follow list were the worst case.                                                                                                                               |                                                               |
| Mode                                                                                                                                                                                                         | Data rate                                                     |
| 802.11a                                                                                                                                                                                                      | 6 Mbps                                                        |
| 802.11n20                                                                                                                                                                                                    | 6.5 Mbps                                                      |
| 802.11n40                                                                                                                                                                                                    | 13 Mbps                                                       |
| 802.11ac80                                                                                                                                                                                                   | 29.3 Mbps                                                     |

## 5.4 Description of Support Units

The EUT has been tested as an independent unit.

## 5.5 Measurement Uncertainty

| Parameters                          | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Conducted Emission (9kHz ~ 30MHz)   | ±1.60 dB (k=2)       |
| Radiated Emission (9kHz ~ 30MHz)    | ±3.12 dB (k=2)       |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2)       |
| Radiated Emission (1GHz ~ 18GHz)    | ±5.38 dB (k=2)       |
| Radiated Emission (18GHz ~ 40GHz)   | ±3.36 dB (k=2)       |

## 5.6 Additions to, deviations, or exclusions from the method

No

## 5.7 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

## 5.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: [info@ccis-cb.com](mailto:info@ccis-cb.com), Website: <http://www.ccis-cb.com>

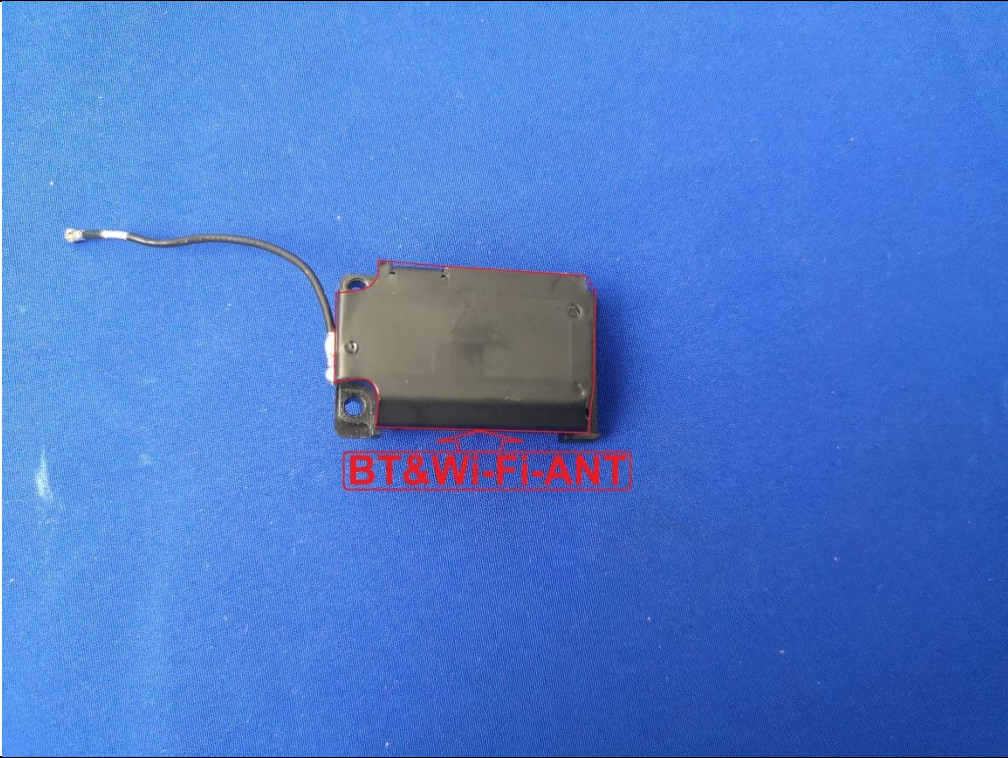
## 5.10 Test Instruments list

| Test Equipment               | Manufacturer    | Model No.     | Serial No.         | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
|------------------------------|-----------------|---------------|--------------------|----------------------|--------------------------|
| 3m SAC                       | SAEMC           | 9m*6m*6m      | 966                | 07-22-2017           | 07-21-2020               |
| BiConiLog Antenna            | SCHWARZBECK     | VULB9163      | 497                | 03-18-2019           | 03-17-2020               |
| Biconical Antenna            | SCHWARZBECK     | VUBA9117      | 359                | 06-22-2017           | 06-21-2020               |
| Horn Antenna                 | SCHWARZBECK     | BBHA9120D     | 916                | 03-18-2019           | 03-17-2020               |
| Horn Antenna                 | SCHWARZBECK     | BBHA9120D     | 1805               | 06-22-2017           | 06-21-2020               |
| Horn Antenna                 | SCHWARZBECK     | BBHA 9170     | BBHA9170582        | 11-21-2018           | 11-20-2019               |
|                              |                 |               |                    | 11-21-2019           | 11-20-2020               |
| EMI Test Software            | AUDIX           | E3            | Version: 6.110919b |                      |                          |
| Pre-amplifier                | HP              | 8447D         | 2944A09358         | 03-18-2019           | 03-17-2020               |
| Pre-amplifier                | CD              | PAP-1G18      | 11804              | 03-18-2019           | 03-17-2020               |
| Spectrum analyzer            | Rohde & Schwarz | FSP30         | 101454             | 03-18-2019           | 03-17-2020               |
| Spectrum analyzer            | Rohde & Schwarz | FSP40         | 100363             | 11-21-2018           | 11-20-2019               |
|                              |                 |               |                    | 11-21-2019           | 11-20-2020               |
| EMI Test Receiver            | Rohde & Schwarz | ESRP7         | 101070             | 03-18-2019           | 03-17-2020               |
| Spectrum Analyzer            | Agilent         | N9020A        | MY50510123         | 11-10-2018           | 11-09-2019               |
|                              |                 |               |                    | 11-10-2019           | 11-09-2020               |
| Signal Generator             | Rohde & Schwarz | SMX           | 835454/016         | 03-18-2019           | 03-17-2020               |
| Signal Generator             | R&S             | SMR20         | 1008100050         | 03-18-2019           | 03-17-2020               |
| RF Switch Unit               | MWRFTTEST       | MW200         | N/A                | N/A                  | N/A                      |
| Test Software                | MWRFTTEST       | MTS8200       | Version: 2.0.0.0   |                      |                          |
| Cable                        | ZDECL           | Z108-NJ-NJ-81 | 1608458            | 03-18-2019           | 03-17-2020               |
| Cable                        | MICRO-COAX      | MFR64639      | K10742-5           | 03-18-2019           | 03-17-2020               |
| Cable                        | SUHNER          | SUCOFLEX100   | 58193/4PE          | 03-18-2019           | 03-17-2020               |
| DC Power Supply              | XinNuoEr        | WYK-10020K    | 1409050110020      | 10-31-2018           | 10-30-2019               |
|                              |                 |               |                    | 10-31-2019           | 10-30-2020               |
| Temperature Humidity Chamber | HengPu          | HPGDS-500     | 20140828008        | 09-24-2018           | 09-23-2019               |
|                              |                 |               |                    | 09-24-2019           | 09-23-2020               |
| Simulated Station            | Rohde & Schwarz | CMW500        | 140493             | 07-16-2018           | 07-15-2019               |
|                              |                 |               |                    | 07-16-2019           | 07-15-2020               |

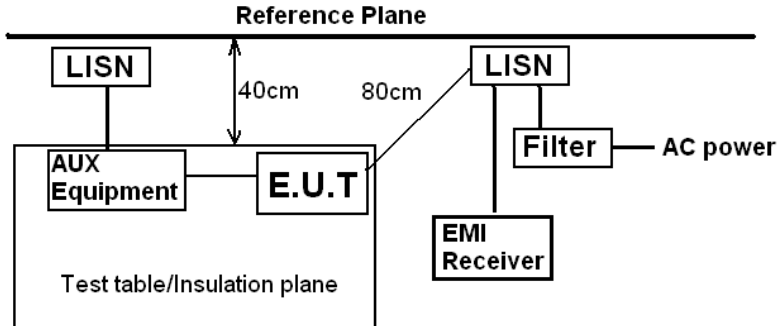
| Conducted Emission: |                 |            |                    |                      |                          |
|---------------------|-----------------|------------|--------------------|----------------------|--------------------------|
| Test Equipment      | Manufacturer    | Model No.  | Serial No.         | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| EMI Test Receiver   | Rohde & Schwarz | ESCI       | 101189             | 03-18-2019           | 03-17-2020               |
| Pulse Limiter       | SCHWARZBECK     | OSRAM 2306 | 9731               | 03-18-2019           | 03-17-2020               |
| LISN                | CHASE           | MN2050D    | 1447               | 03-18-2019           | 03-17-2020               |
| LISN                | Rohde & Schwarz | ESH3-Z5    | 8438621/010        | 07-21-2018           | 07-20-2021               |
| Cable               | HP              | 10503A     | N/A                | 03-18-2019           | 03-17-2020               |
| EMI Test Software   | AUDIX           | E3         | Version: 6.110919b |                      |                          |

## 6 Test results and Measurement Data

### 6.1 Antenna requirement

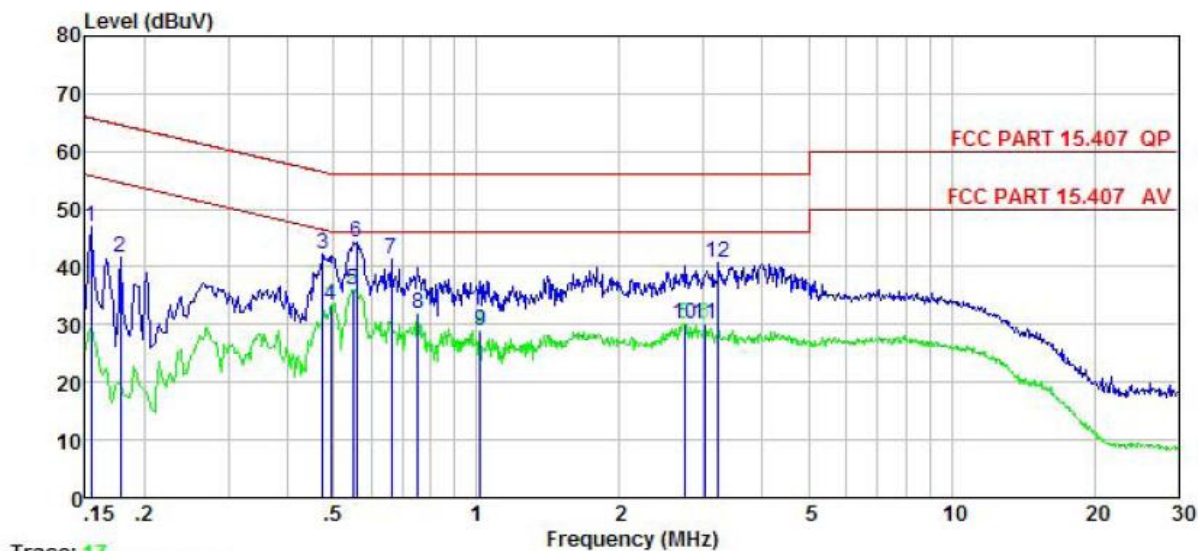
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC Part15 E Section 15.203 /407(a) |
| <p>15.203 requirement:<br/>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p> |                                     |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |
| The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 3.59 dBi.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |

## 6.2 Conducted Emission

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |          |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|
| Test Requirement:                                | FCC Part15 C Section 15.407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |          |
| Test Frequency Range:                            | 150kHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |          |
| Class / Severity:                                | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |          |
| Receiver setup:                                  | RBW=9kHz, VBW=30kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |          |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Limit (dBUV) |          |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quasi-peak   |          |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 66 to 56*    | 0.15-0.5 |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 56           | 0.5-5    |
|                                                  | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60           | 5-30     |
| * Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |          |
| Test procedure                                   | <ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement.</li> </ol> |              |          |
| Test setup:                                      |  <p><i>Remark</i><br/> E.U.T: Equipment Under Test<br/> LISN: Line Impedance Stabilization Network<br/> Test table height=0.8m</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |          |
| Test Instruments:                                | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |
| Test mode:                                       | Refer to section 5.3 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |
| Test results:                                    | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |          |

## Measurement Data:

|                 |                    |                |                       |
|-----------------|--------------------|----------------|-----------------------|
| Product name:   | C-One e-ID, RAPID3 | Product Model: | C-One e-ID            |
| Test by:        | Mike               | Test mode:     | 5G Wi-Fi Tx mode      |
| Test frequency: | 150 kHz ~ 30 MHz   | Phase:         | Line                  |
| Test voltage:   | AC 120 V/60 Hz     | Environment:   | Temp: 22.5℃ Humi: 55% |



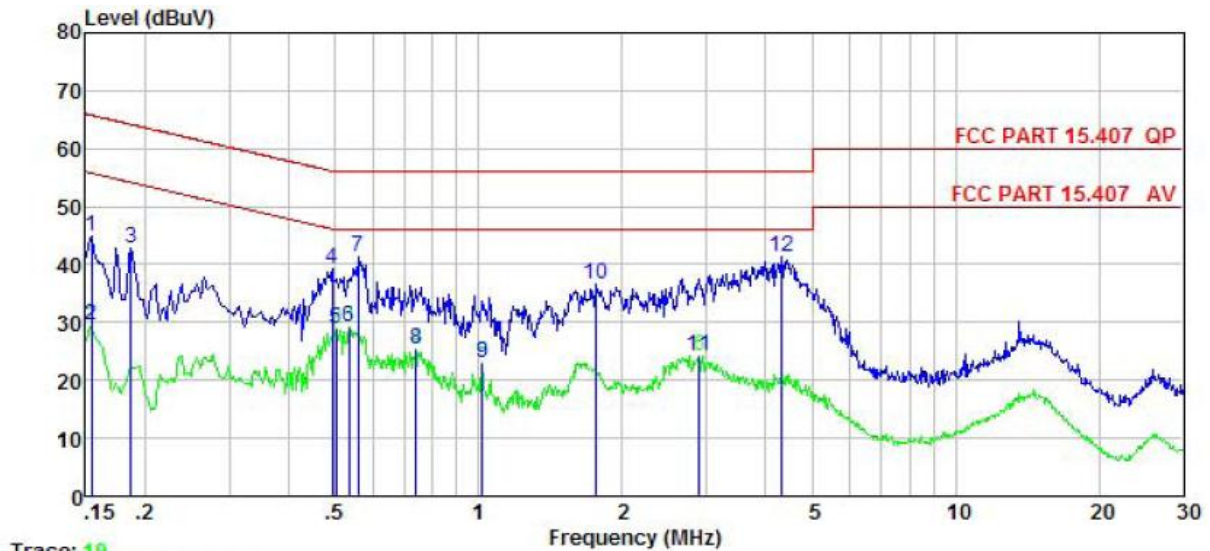
Trace: 17

|    | Freq  | Read  | LISN  | Aux   | Cable | Level | Limit | Over   | Remark  |
|----|-------|-------|-------|-------|-------|-------|-------|--------|---------|
|    | MHz   | dBuV  | dB    | dB    | dB    | dBuV  | dBuV  | dB     |         |
| 1  | 0.154 | 36.52 | -0.45 | -0.06 | 10.78 | 46.79 | 65.78 | -18.99 | QP      |
| 2  | 0.178 | 31.45 | -0.43 | -0.12 | 10.77 | 41.67 | 64.59 | -22.92 | QP      |
| 3  | 0.474 | 31.94 | -0.39 | -0.18 | 10.75 | 42.12 | 56.45 | -14.33 | QP      |
| 4  | 0.494 | 23.38 | -0.39 | -0.32 | 10.76 | 33.43 | 46.10 | -12.67 | Average |
| 5  | 0.549 | 26.05 | -0.39 | -0.36 | 10.76 | 36.06 | 46.00 | -9.94  | Average |
| 6  | 0.558 | 34.27 | -0.39 | -0.37 | 10.76 | 44.27 | 56.00 | -11.73 | QP      |
| 7  | 0.661 | 31.32 | -0.38 | -0.39 | 10.77 | 41.32 | 56.00 | -14.68 | QP      |
| 8  | 0.751 | 21.66 | -0.38 | -0.24 | 10.79 | 31.83 | 46.00 | -14.17 | Average |
| 9  | 1.016 | 18.15 | -0.38 | 0.44  | 10.87 | 29.08 | 46.00 | -16.92 | Average |
| 10 | 2.736 | 19.90 | -0.43 | -0.23 | 10.93 | 30.17 | 46.00 | -15.83 | Average |
| 11 | 3.025 | 19.78 | -0.44 | -0.21 | 10.92 | 30.05 | 46.00 | -15.95 | Average |
| 12 | 3.224 | 30.31 | -0.45 | -0.17 | 10.91 | 40.60 | 56.00 | -15.40 | QP      |

## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

|                 |                    |                |                        |
|-----------------|--------------------|----------------|------------------------|
| Product name:   | C-One e-ID, RAPID3 | Product Model: | C-One e-ID             |
| Test by:        | Mike               | Test mode:     | 5G Wi-Fi Tx mode       |
| Test frequency: | 150 kHz ~ 30 MHz   | Phase:         | Neutral                |
| Test voltage:   | AC 120 V/60 Hz     | Environment:   | Temp: 22.5°C Humi: 55% |

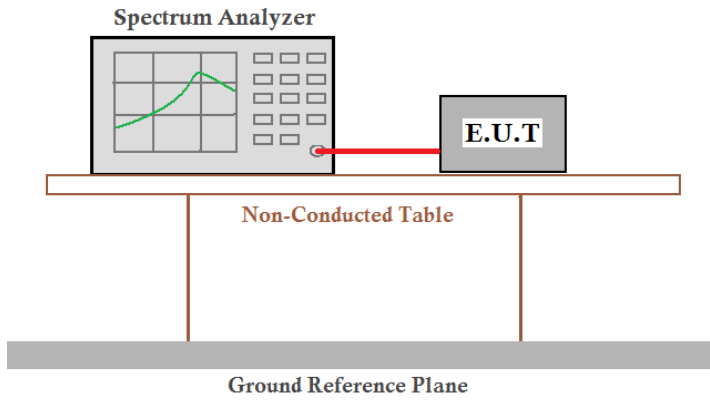


|    | Freq  | Read Level | LISN Factor | Aux Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------------|------------|------------|-------|------------|------------|---------|
|    | MHz   | dBuV       | dB          | dB         | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.154 | 34.82      | -0.68       | 0.01       | 10.78      | 44.93 | 65.78      | -20.85     | QP      |
| 2  | 0.154 | 19.37      | -0.68       | 0.01       | 10.78      | 29.48 | 55.78      | -26.30     | Average |
| 3  | 0.186 | 32.79      | -0.69       | 0.00       | 10.76      | 42.86 | 64.20      | -21.34     | QP      |
| 4  | 0.494 | 29.23      | -0.65       | 0.03       | 10.76      | 39.37 | 56.10      | -16.73     | QP      |
| 5  | 0.502 | 18.72      | -0.65       | 0.03       | 10.76      | 28.86 | 46.00      | -17.14     | Average |
| 6  | 0.535 | 19.05      | -0.65       | 0.03       | 10.76      | 29.19 | 46.00      | -16.81     | Average |
| 7  | 0.558 | 31.09      | -0.65       | 0.03       | 10.76      | 41.23 | 56.00      | -14.77     | QP      |
| 8  | 0.739 | 15.06      | -0.64       | 0.05       | 10.79      | 25.26 | 46.00      | -20.74     | Average |
| 9  | 1.016 | 12.77      | -0.63       | 0.08       | 10.87      | 23.09 | 46.00      | -22.91     | Average |
| 10 | 1.753 | 26.07      | -0.66       | 0.15       | 10.94      | 36.50 | 56.00      | -19.50     | QP      |
| 11 | 2.900 | 13.77      | -0.67       | 0.30       | 10.92      | 24.32 | 46.00      | -21.68     | Average |
| 12 | 4.315 | 30.56      | -0.71       | 0.57       | 10.88      | 41.30 | 56.00      | -14.70     | QP      |

**Notes:**

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

## 6.3 Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 (a) (1) (iv) & (a) (3)                                                                                                                                                                                                                                                                                                                                       |
| Limit:            | Band 1: 24dBm<br>Band 4: 30dBm                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                        |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                   |

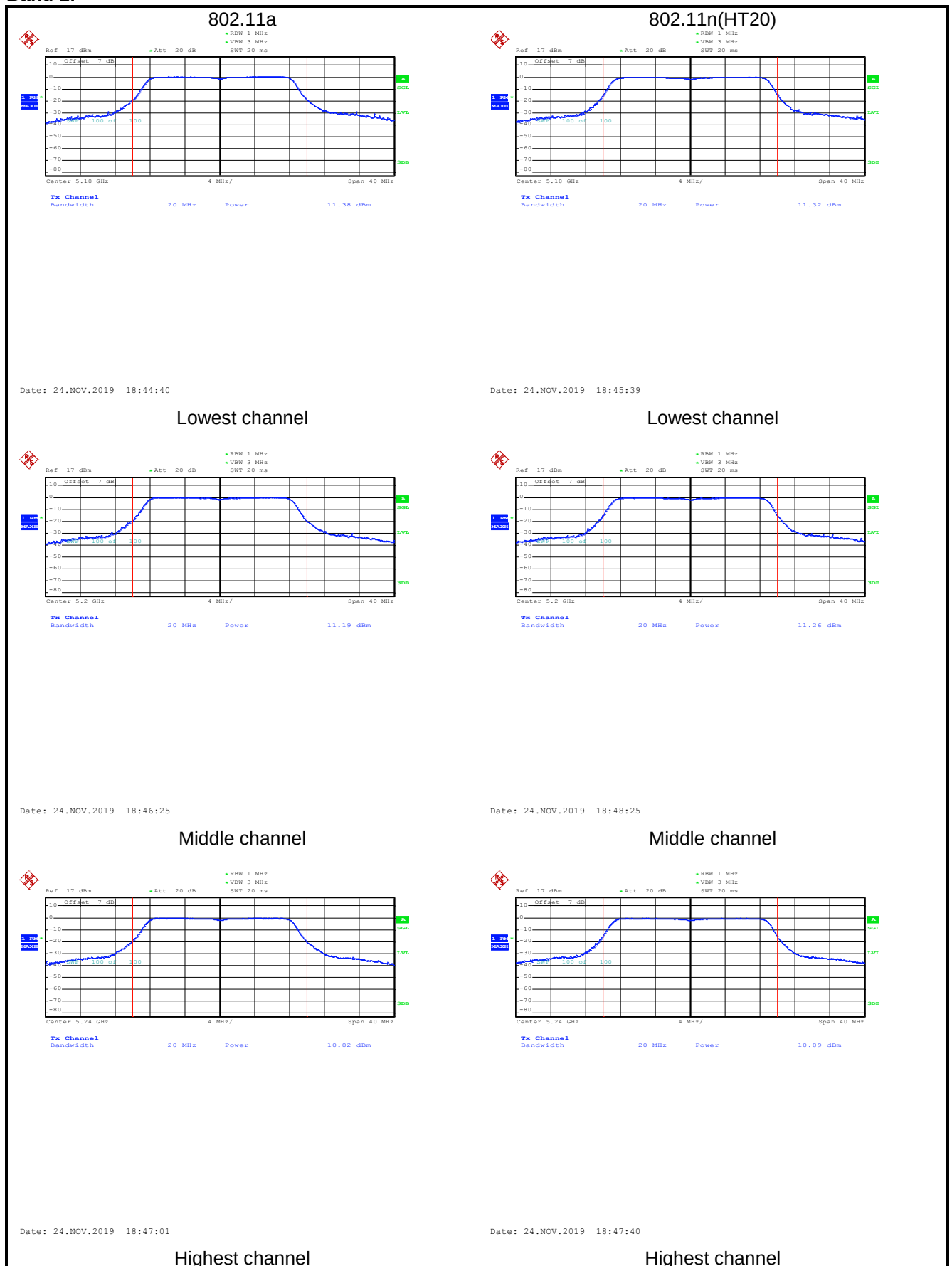
## Measurement Data:

| Band 1     |         |                              |             |        |
|------------|---------|------------------------------|-------------|--------|
| Mode       | Test CH | Conducted Output power (dBm) | Limit (dBm) | Result |
| 802.11a    | Lowest  | 11.38                        | 24.00       | Pass   |
|            | Middle  | 11.19                        |             |        |
|            | Highest | 10.82                        |             |        |
| 802.11n20  | Lowest  | 11.32                        | 24.00       | Pass   |
|            | Middle  | 11.26                        |             |        |
|            | Highest | 10.89                        |             |        |
| 802.11n40  | Lowest  | 10.14                        | 24.00       | Pass   |
|            | Highest | 9.41                         |             |        |
| 802.11ac20 | Lowest  | 11.14                        | 24.00       | Pass   |
|            | Middle  | 11.17                        |             |        |
|            | Highest | 10.78                        |             |        |
| 802.11ac40 | Lowest  | 10.02                        | 24.00       | Pass   |
|            | Highest | 9.30                         |             |        |
| 802.11ac80 | Lowest  | 10.01                        | 24.00       | Pass   |

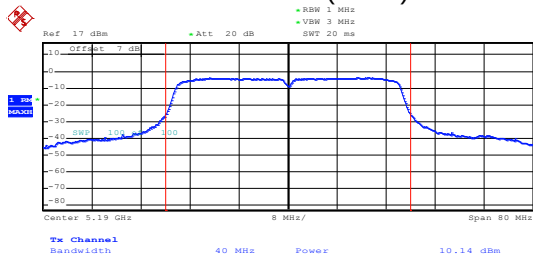
| Band 4     |         |                              |             |        |
|------------|---------|------------------------------|-------------|--------|
| Mode       | Test CH | Conducted Output power (dBm) | Limit (dBm) | Result |
| 802.11a    | Lowest  | 10.50                        | 30.00       | Pass   |
|            | Middle  | 10.16                        |             |        |
|            | Highest | 9.94                         |             |        |
| 802.11n20  | Lowest  | 10.52                        | 30.00       | Pass   |
|            | Middle  | 10.25                        |             |        |
|            | Highest | 10.02                        |             |        |
| 802.11n40  | Lowest  | 9.53                         | 30.00       | Pass   |
|            | Highest | 10.03                        |             |        |
| 802.11ac20 | Lowest  | 10.32                        | 30.00       | Pass   |
|            | Middle  | 10.20                        |             |        |
|            | Highest | 9.99                         |             |        |
| 802.11ac40 | Lowest  | 9.26                         | 30.00       | Pass   |
|            | Highest | 9.95                         |             |        |
| 802.11ac80 | Lowest  | 9.97                         | 30.00       | Pass   |

Test plot as follows:

Band 1:

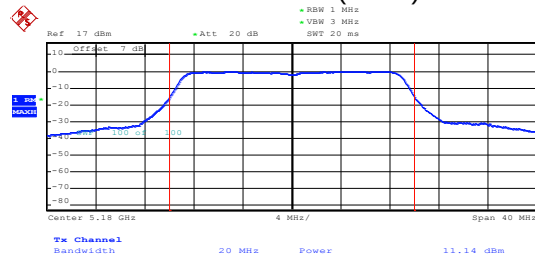


## 802.11n(HT40)



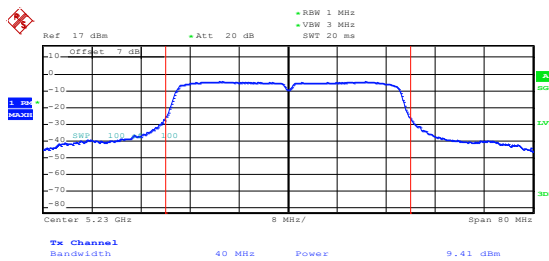
Date: 24.NOV.2019 18:49:59

## 802.11ac(HT20)



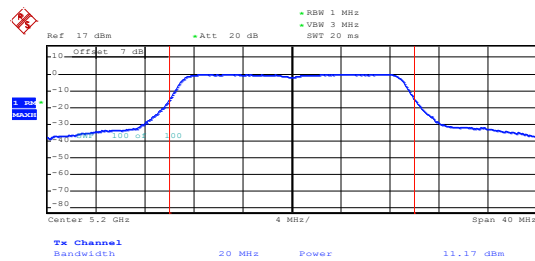
Date: 24.NOV.2019 18:56:26

## Lowest channel



Date: 24.NOV.2019 18:51:26

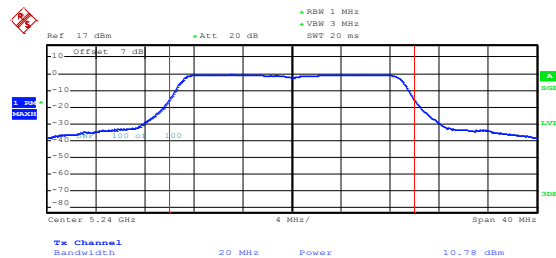
## Lowest channel



Date: 24.NOV.2019 18:57:57

## Highest channel

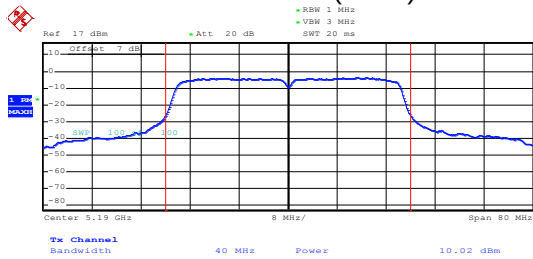
## Middle channel



Date: 24.NOV.2019 18:58:39

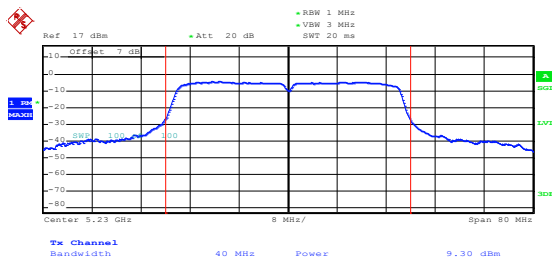
## Highest channel

## 802.11ac(HT40)



Date: 24.NOV.2019 18:54:05

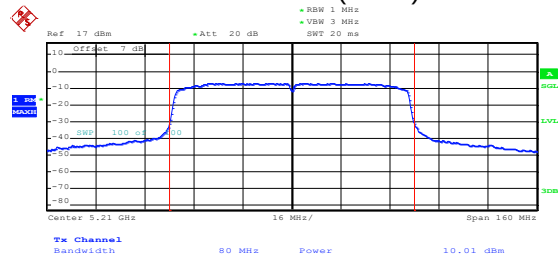
## Lowest channel



Date: 24.NOV.2019 18:54:51

## Highest channel

## 802.11ac(HT80)

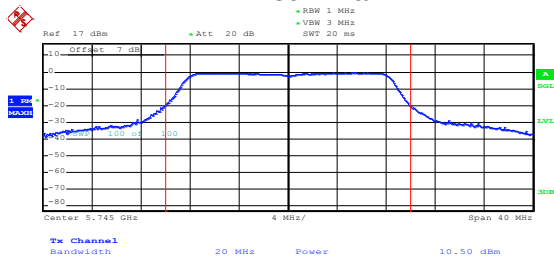


Date: 24.NOV.2019 18:52:38

## Middle channel

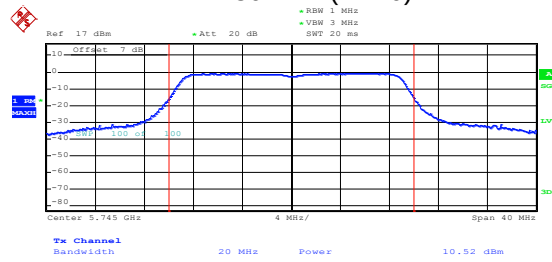
## Band 4:

802.11a



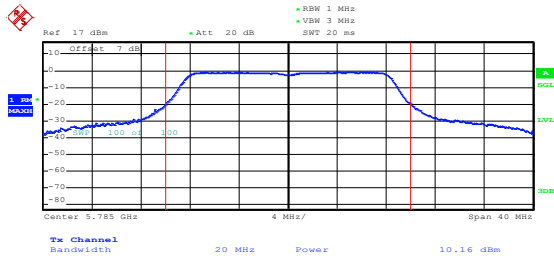
Date: 24.NOV.2019 19:49:45

802.11n(HT20)



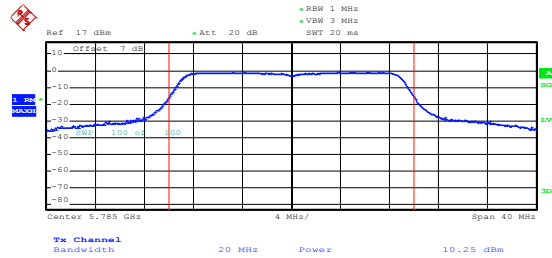
Date: 24.NOV.2019 19:53:40

Lowest channel



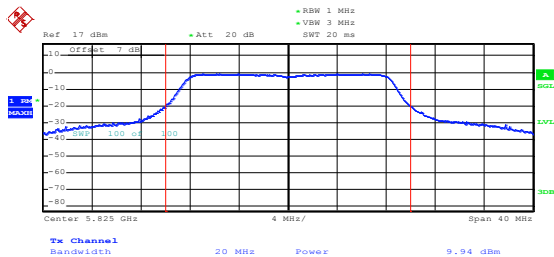
Date: 24.NOV.2019 19:50:34

Lowest channel



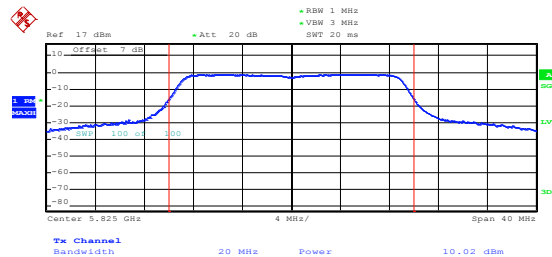
Date: 24.NOV.2019 19:53:09

Middle channel



Date: 24.NOV.2019 19:51:09

Middle channel

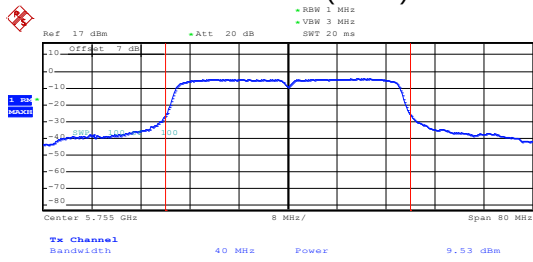


Date: 24.NOV.2019 19:52:42

Highest channel

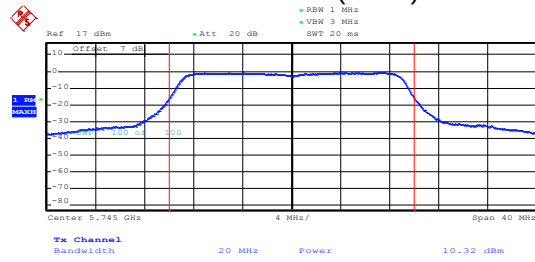
Highest channel

## 802.11n(HT40)



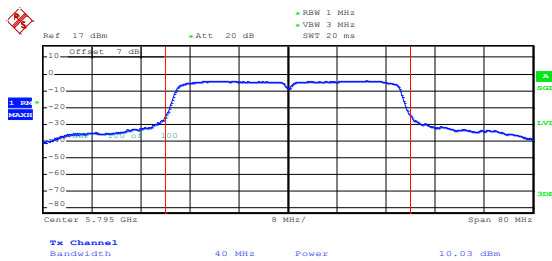
Date: 24.NOV.2019 19:55:11

## 802.11ac(HT20)



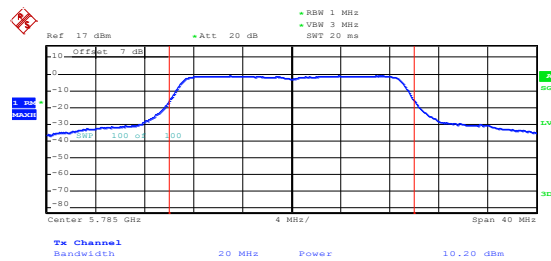
Date: 24.NOV.2019 19:59:58

## Lowest channel



Date: 24.NOV.2019 19:55:40

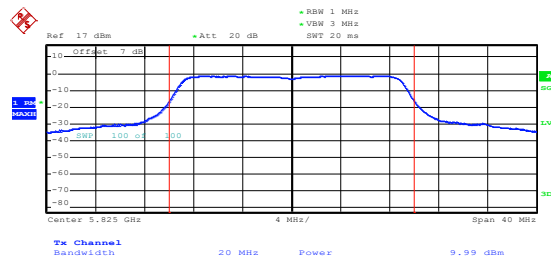
## Lowest channel



Date: 24.NOV.2019 20:00:25

## Highest channel

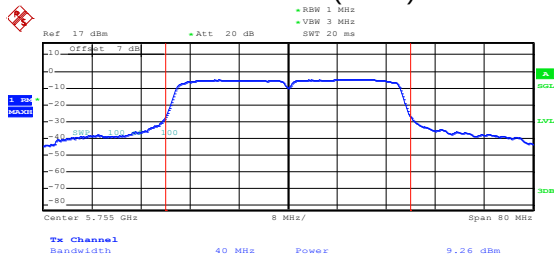
## Middle channel



Date: 24.NOV.2019 20:00:51

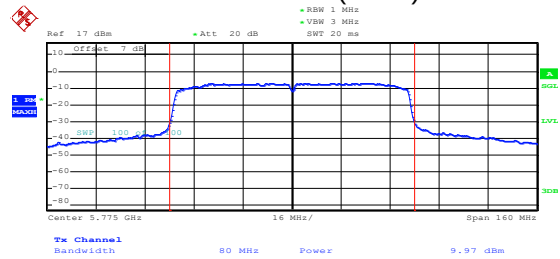
## Highest channel

## 802.11ac(HT40)



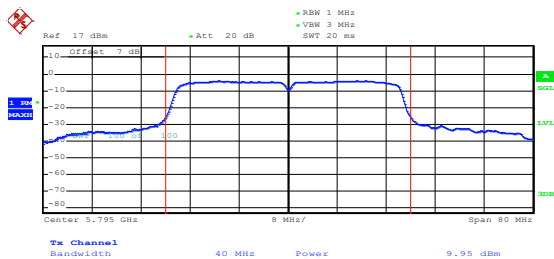
Date: 24.NOV.2019 19:57:45

## 802.11ac(HT80)



Date: 24.NOV.2019 19:58:48

## Lowest channel

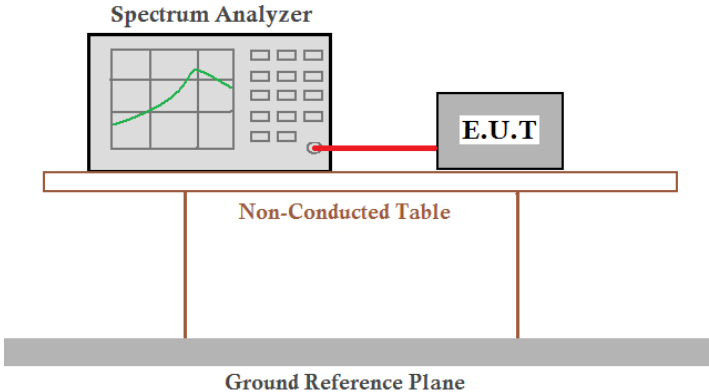


Date: 24.NOV.2019 19:56:40

## Middle channel

## Highest channel

## 6.4 Occupancy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 (a) (5) and Section 15.407 (e)                                                                                                                                                                                                                                                                                        |
| Limit:            | Band 1/4: N/A (26dB Emission Bandwidth and 99% Occupancy Bandwidth)<br>Band 4: >500kHz (6dB Bandwidth)                                                                                                                                                                                                                                            |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                 |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                  |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                            |

### Measurement Data:

#### Band 1:

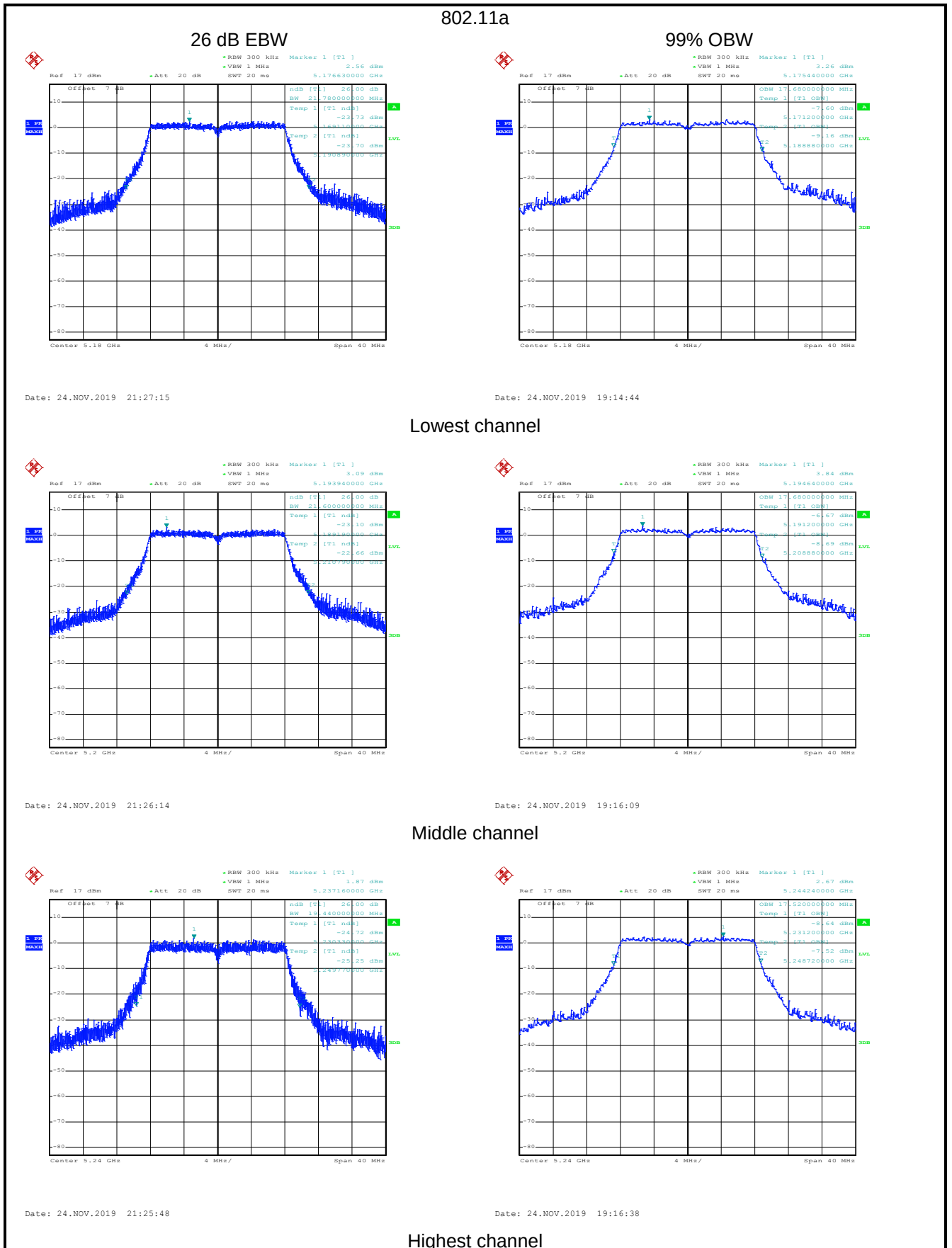
| Test Channel | 26dB Emission Bandwidth (MHz) |                |                |                 |                 |                 | Limit | Result |
|--------------|-------------------------------|----------------|----------------|-----------------|-----------------|-----------------|-------|--------|
|              | 802.11a                       | 802.11n (HT20) | 802.11n (HT40) | 802.11ac (HT20) | 802.11ac (HT40) | 802.11ac (HT80) |       |        |
| Lowest       | 21.78                         | 22.53          | 43.80          | 22.20           | 45.68           | ---             | N/A   | PASS   |
| Middle       | 21.60                         | 21.99          | ---            | 22.01           | ---             | 80.08           |       |        |
| Highest      | 19.44                         | 19.76          | 40.46          | 20.28           | 40.20           | ---             |       |        |
| Test Channel | 99% Occupancy Bandwidth (MHz) |                |                |                 |                 |                 | Limit | Result |
|              | 802.11a                       | 802.11n (HT20) | 802.11n (HT40) | 802.11ac (HT20) | 802.11ac (HT40) | 802.11ac (HT80) |       |        |
| Lowest       | 17.68                         | 18.56          | 37.60          | 18.32           | 37.28           | ---             | N/A   | PASS   |
| Middle       | 17.68                         | 18.48          | ---            | 18.32           | ---             | 75.20           |       |        |
| Highest      | 17.52                         | 18.56          | 37.44          | 18.32           | 37.28           | ---             |       |        |

## Band 4:

| Test Channel | 26dB Emission Bandwidth (MHz) |                |                |                 |                 |                 | Limit   | Result |
|--------------|-------------------------------|----------------|----------------|-----------------|-----------------|-----------------|---------|--------|
|              | 802.11a                       | 802.11n (HT20) | 802.11n (HT40) | 802.11ac (HT20) | 802.11ac (HT40) | 802.11ac (HT80) |         |        |
| Lowest       | 23.28                         | 24.00          | 46.40          | 23.04           | 46.40           | ---             | N/A     | PASS   |
| Middle       | 24.08                         | 26.80          | ---            | 23.52           | ---             | 87.04           |         |        |
| Highest      | 24.64                         | 24.64          | 48.00          | 24.16           | 47.36           | ---             |         |        |
| Test Channel | 99% Occupy Bandwidth (MHz)    |                |                |                 |                 |                 | Limit   | Result |
|              | 802.11a                       | 802.11n (HT20) | 802.11n (HT40) | 802.11ac (HT20) | 802.11ac (HT40) | 802.11ac (HT80) |         |        |
| Lowest       | 17.68                         | 18.48          | 37.60          | 18.32           | 37.28           | ---             | N/A     | PASS   |
| Middle       | 17.84                         | 18.64          | ---            | 18.48           | ---             | 75.20           |         |        |
| Highest      | 17.84                         | 18.64          | 37.92          | 18.40           | 37.44           | ---             |         |        |
| Test Channel | 6dB Emission Bandwidth (MHz)  |                |                |                 |                 |                 | Limit   | Result |
|              | 802.11a                       | 802.11n (HT20) | 802.11n (HT40) | 802.11ac (HT20) | 802.11ac (HT40) | 802.11ac (HT80) |         |        |
| Lowest       | 16.48                         | 17.76          | 36.16          | 17.76           | 35.52           | ---             | >500kHz | PASS   |
| Middle       | 16.56                         | 17.76          | ---            | 17.76           | ---             | 76.16           |         |        |
| Highest      | 16.48                         | 17.76          | 35.84          | 17.76           | 35.52           | ---             |         |        |

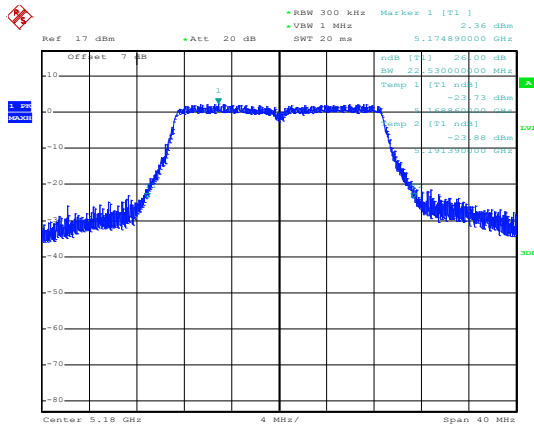
Test plot as follows:

Band 1:



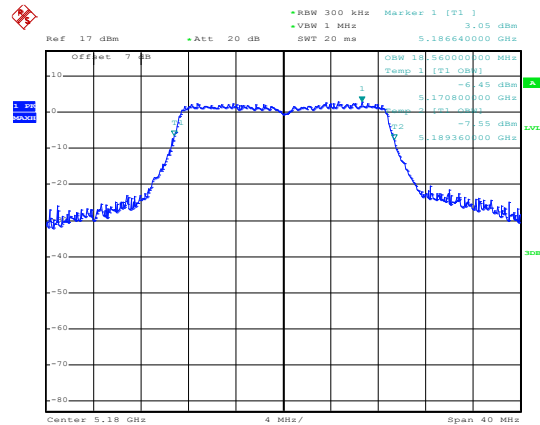
## 802.11n(HT20)

### 26 dB EBW



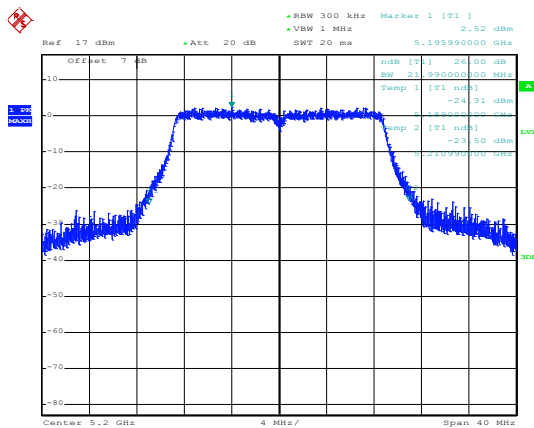
Date: 24.NOV.2019 21:28:50

### 99% OBW

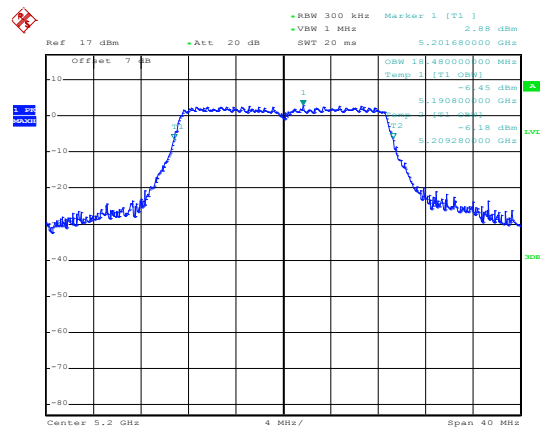


Date: 24.NOV.2019 19:21:14

## Lowest channel

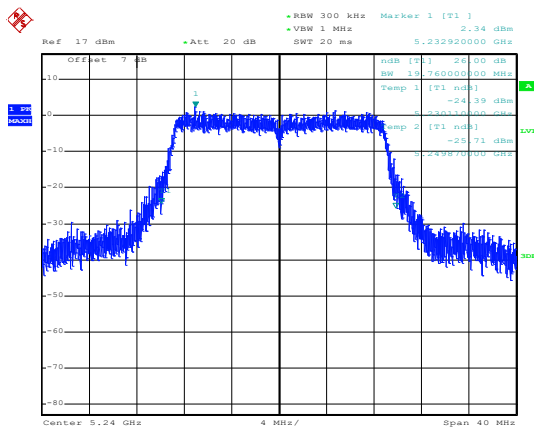


Date: 24.NOV.2019 21:29:16

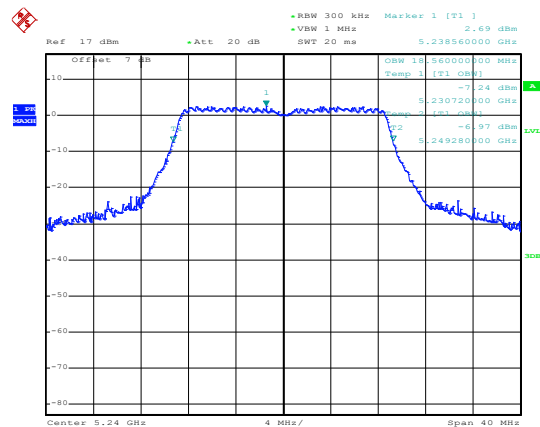


Date: 24.NOV.2019 19:20:02

## Middle channel



Date: 24.NOV.2019 21:30:30

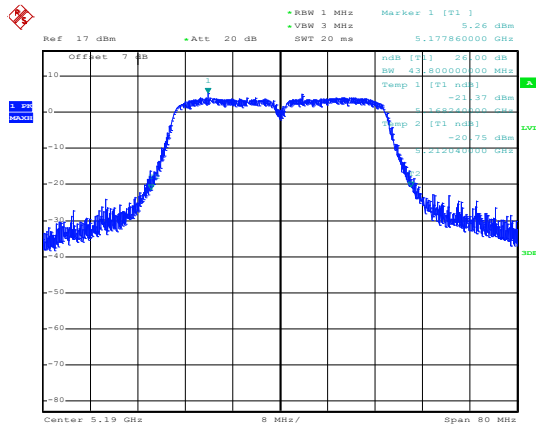


Date: 24.NOV.2019 19:19:29

## Highest channel

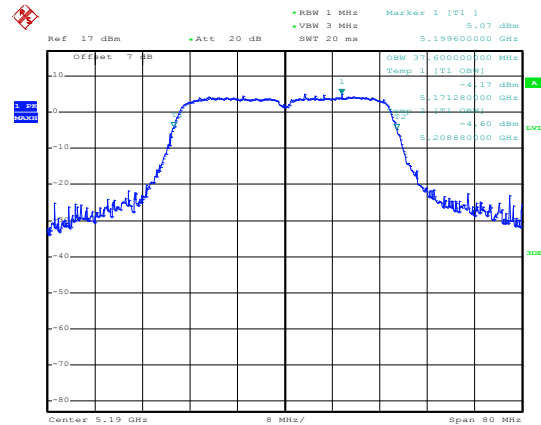
## 802.11n(HT40)

## 26 dB EBW



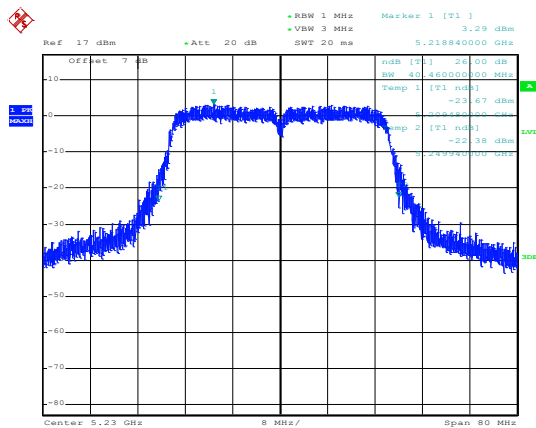
Date: 24.NOV.2019 21:46:56

## 99% OBW

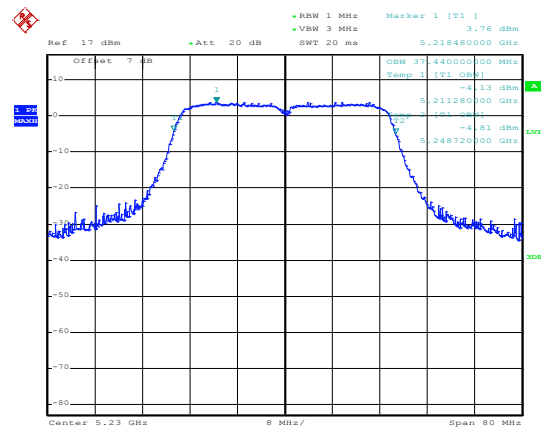


Date: 24.NOV.2019 19:12:14

## Lowest channel



Date: 24.NOV.2019 21:48:32

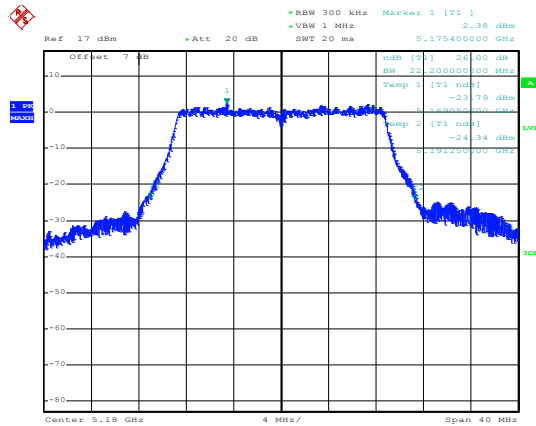


Date: 24.NOV.2019 19:11:43

## Highest channel

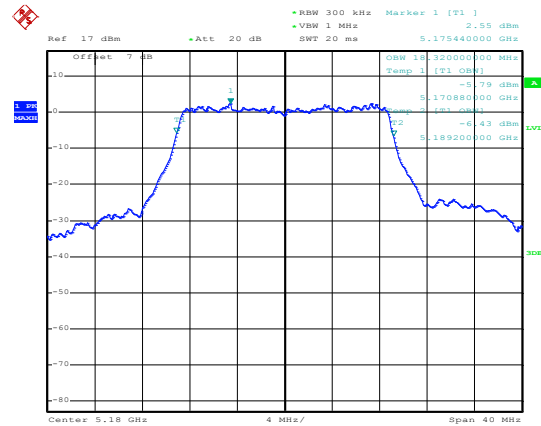
## 802.11ac(HT20)

### 26 dB EBW



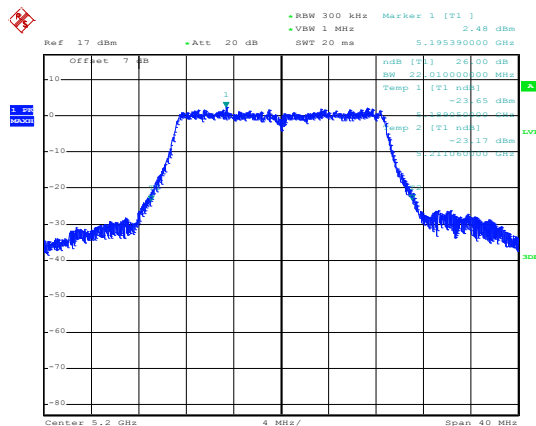
Date: 24.NOV.2019 21:37:33

### 99% OBW

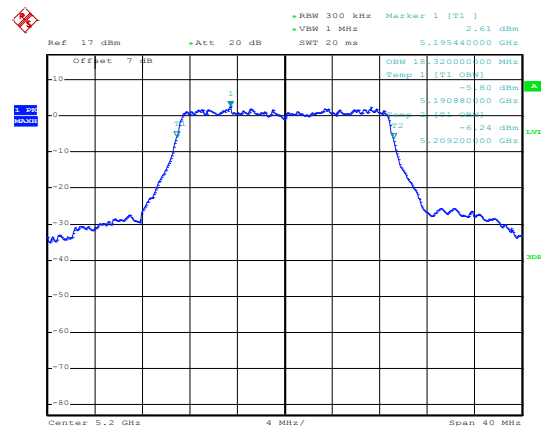


Date: 24.NOV.2019 19:02:47

## Lowest channel

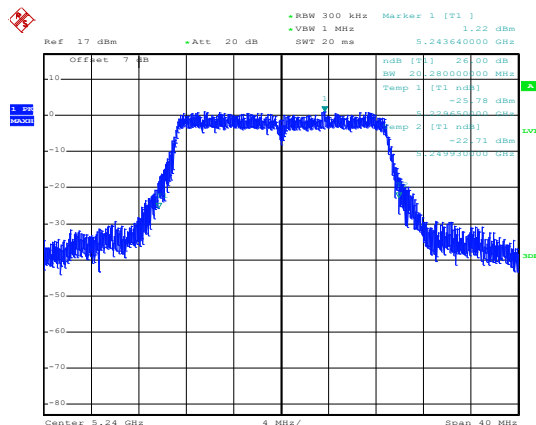


Date: 24.NOV.2019 21:37:12

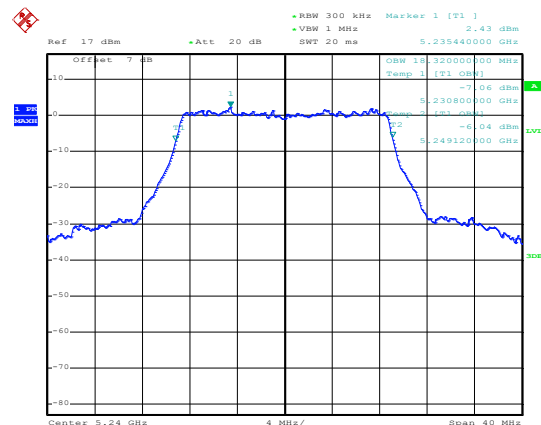


Date: 24.NOV.2019 19:01:04

## Middle channel



Date: 24.NOV.2019 21:36:48

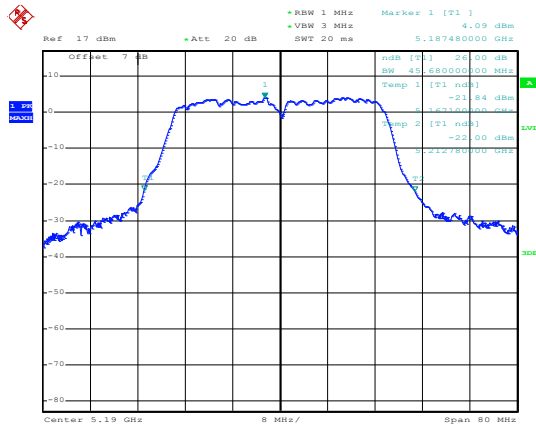


Date: 24.NOV.2019 19:00:27

## Highest channel

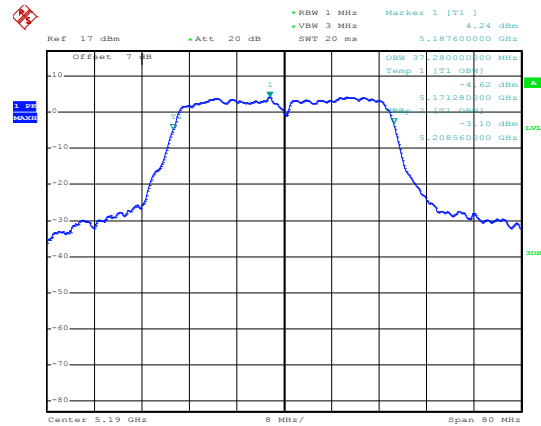
## 802.11ac(HT40)

### 26 dB EBW



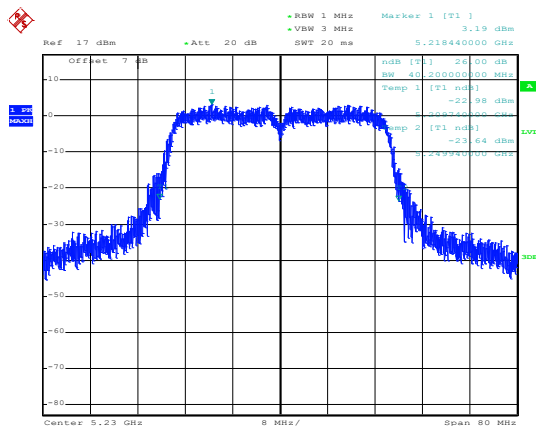
Date: 24.NOV.2019 21:43:51

### 99% OBW

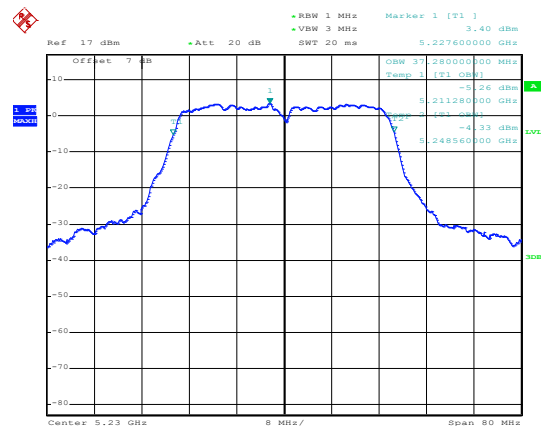


Date: 24.NOV.2019 19:06:33

## Lowest channel



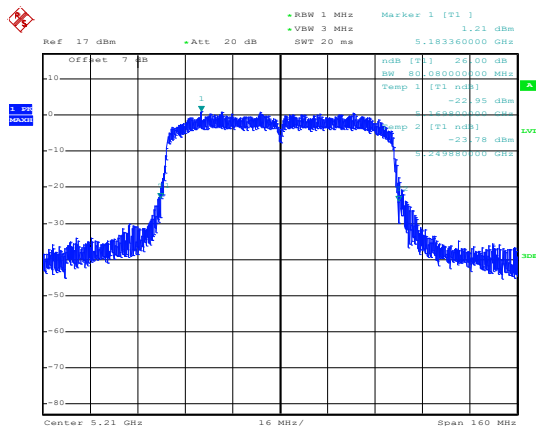
Date: 24.NOV.2019 21:44:57



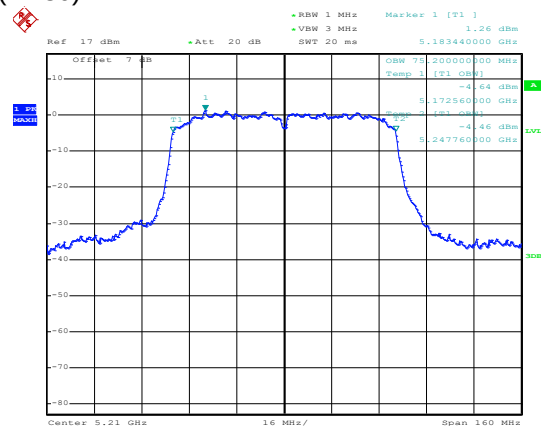
Date: 24.NOV.2019 19:08:14

## Highest channel

## 802.11ac(HT80)



Date: 24.NOV.2019 21:46:12



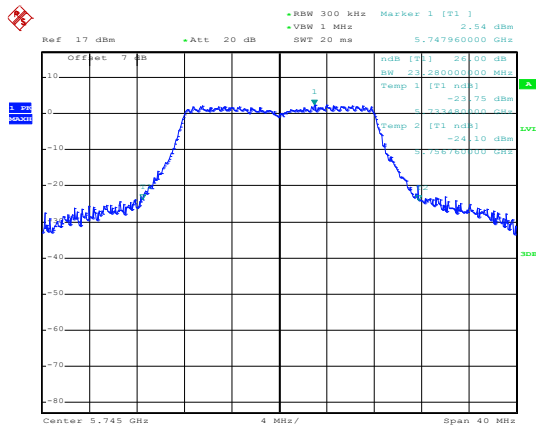
Date: 24.NOV.2019 19:09:14

## Middle channel

## Band 4:

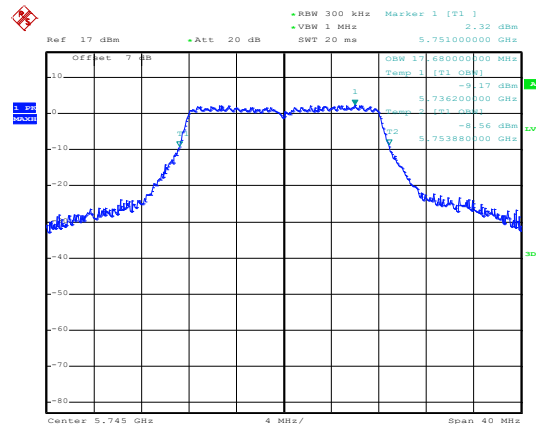
802.11a

26 dB EBW



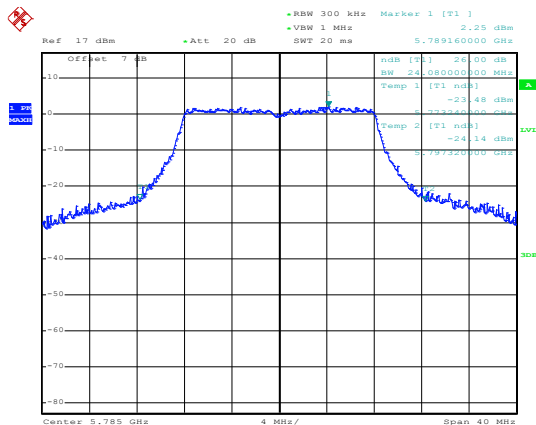
Date: 24.NOV.2019 20:10:52

99% OBW

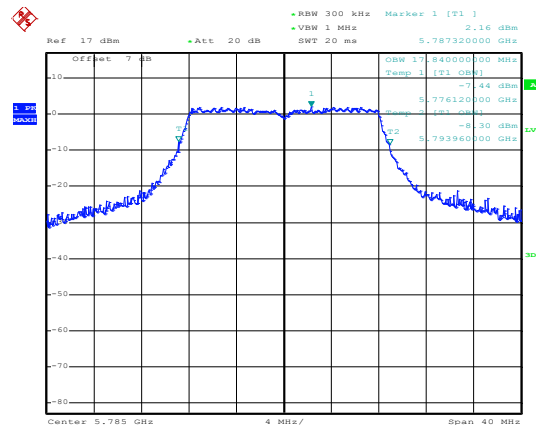


Date: 24.NOV.2019 20:10:38

Lowest channel

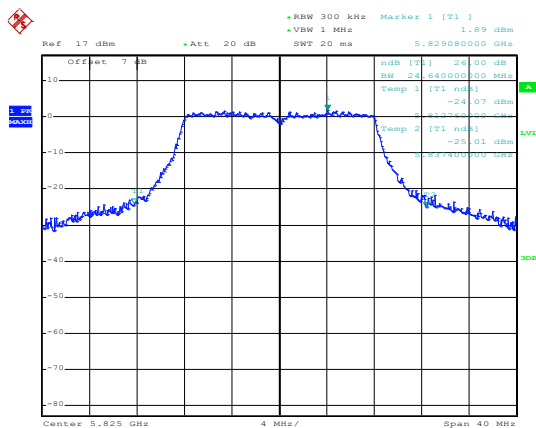


Date: 24.NOV.2019 20:09:53

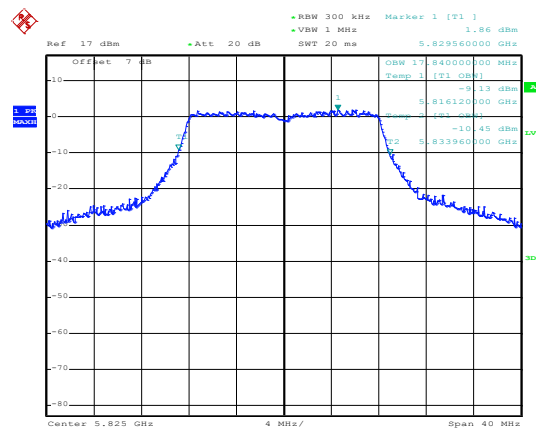


Date: 24.NOV.2019 20:10:09

Middle channel



Date: 24.NOV.2019 20:09:19

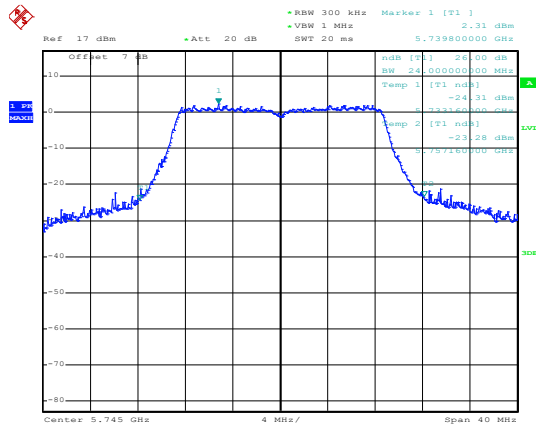


Date: 24.NOV.2019 20:09:07

Highest channel

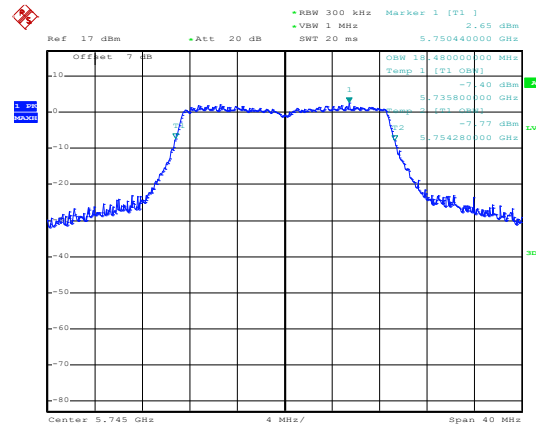
## 802.11n(HT20)

## 26 dB EBW



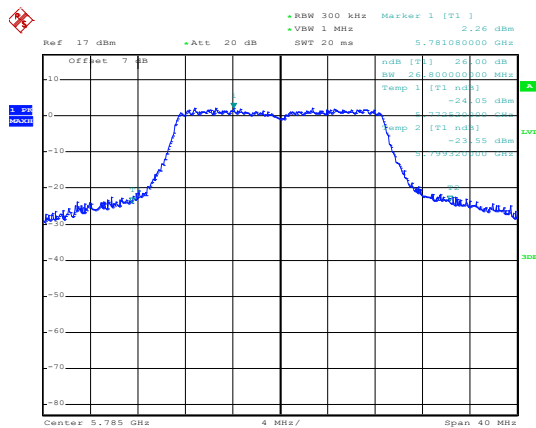
Date: 24.NOV.2019 20:05:07

## 99% OBW

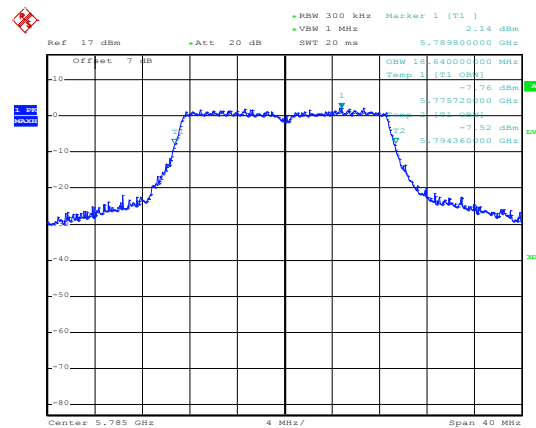


Date: 24.NOV.2019 20:05:23

## Lowest channel

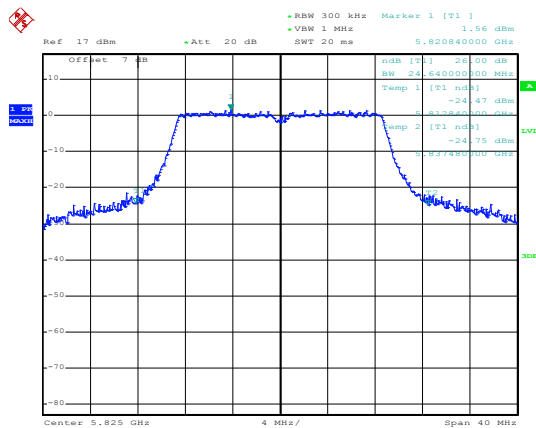


Date: 24.NOV.2019 20:06:38

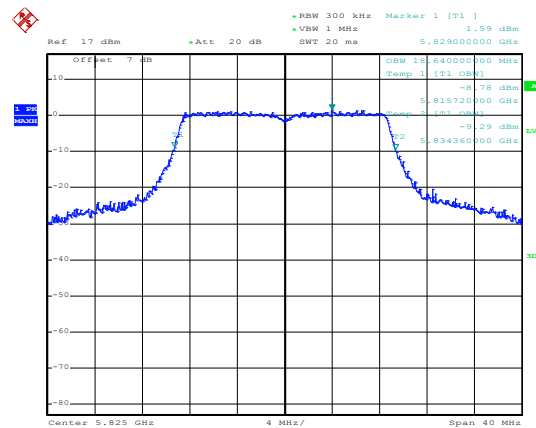


Date: 24.NOV.2019 20:06:07

## Middle channel



Date: 24.NOV.2019 20:08:22

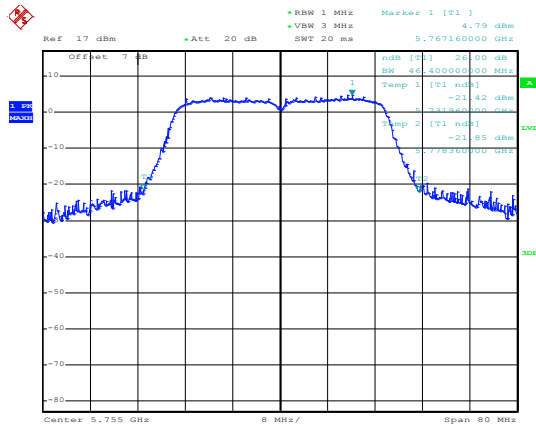


Date: 24.NOV.2019 20:08:37

## Highest channel

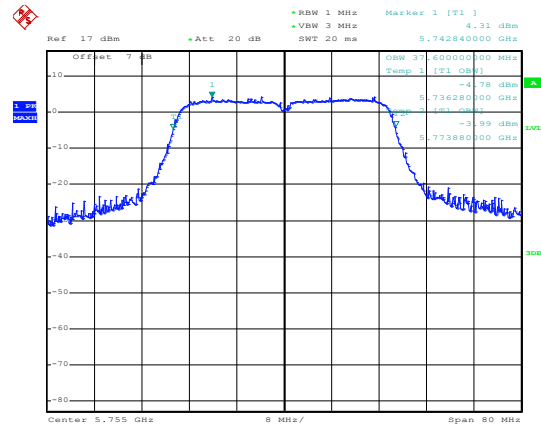
## 802.11n(HT40)

26 dB EBW



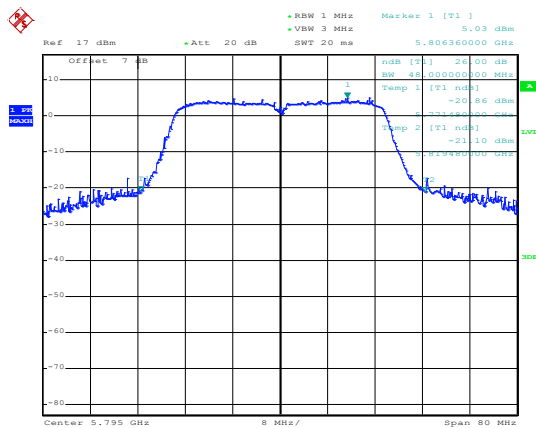
Date: 24.NOV.2019 20:14:05

99% OBW

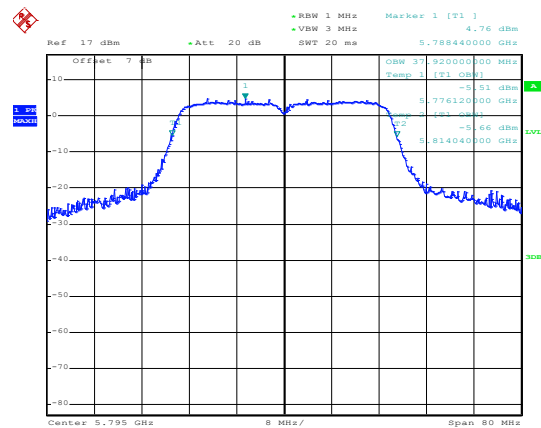


Date: 24.NOV.2019 20:14:19

## Lowest channel



Date: 24.NOV.2019 20:15:10

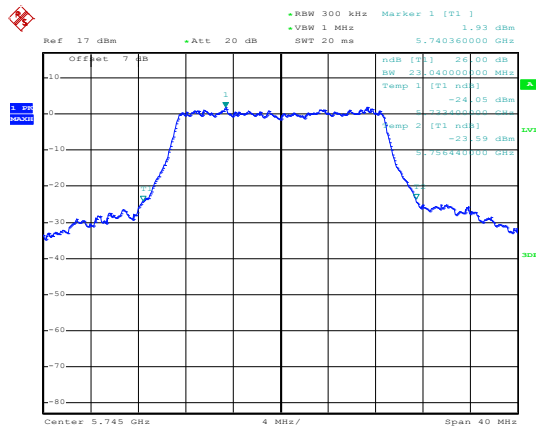


Date: 24.NOV.2019 20:14:56

## Highest channel

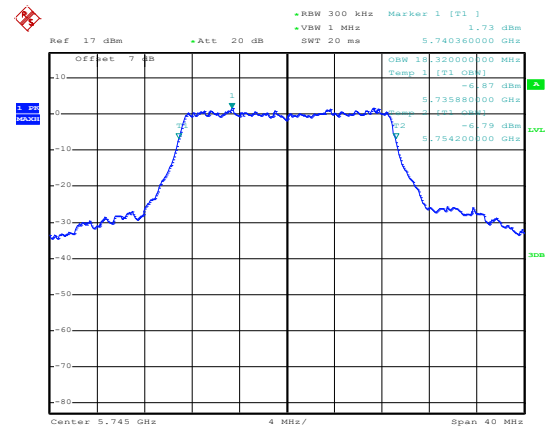
## 802.11ac(HT20)

## 26 dB EBW



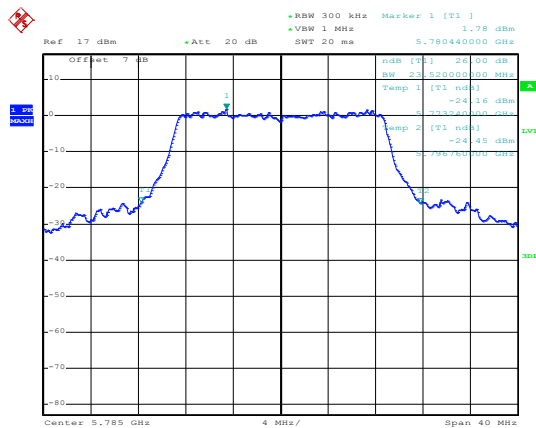
Date: 24.NOV.2019 20:04:32

## 99% OBW

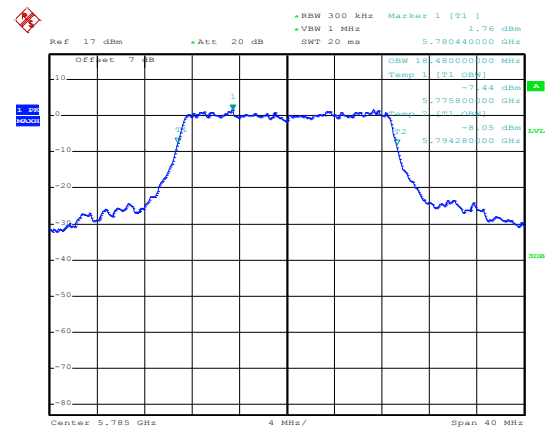


Date: 24.NOV.2019 20:04:17

## Lowest channel

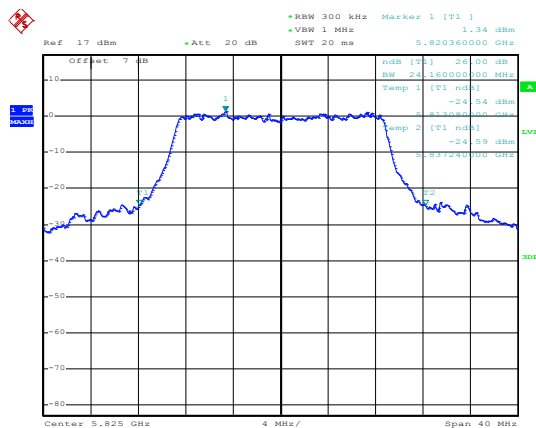


Date: 24.NOV.2019 20:03:21

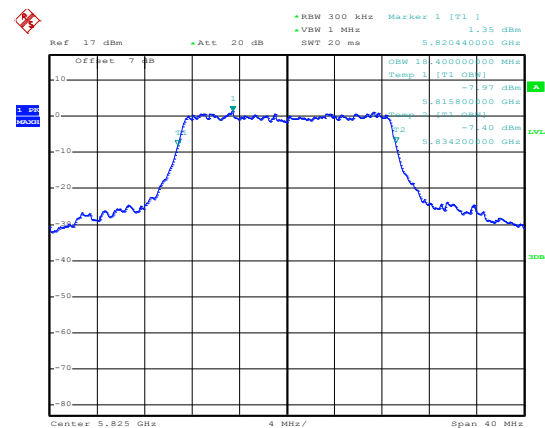


Date: 24.NOV.2019 20:03:37

## Middle channel



Date: 24.NOV.2019 20:02:44

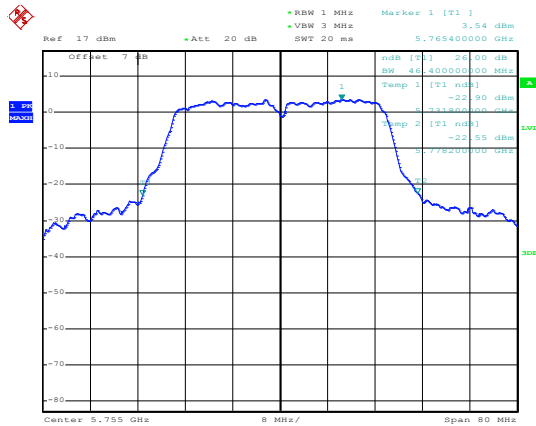


Date: 24.NOV.2019 20:02:21

## Highest channel

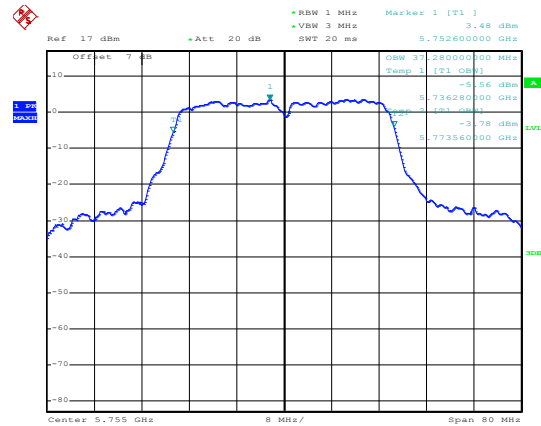
## 802.11ac(HT40)

## 26 dB EBW



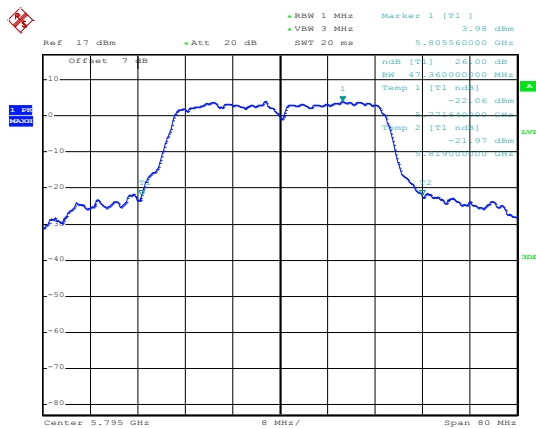
Date: 24.NOV.2019 20:16:45

## 99% OBW

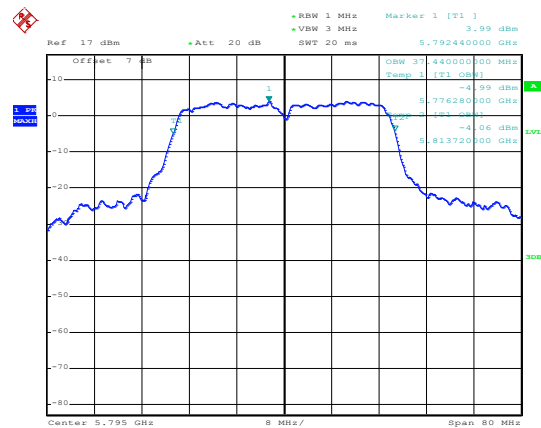


Date: 24.NOV.2019 20:16:58

## Lowest channel



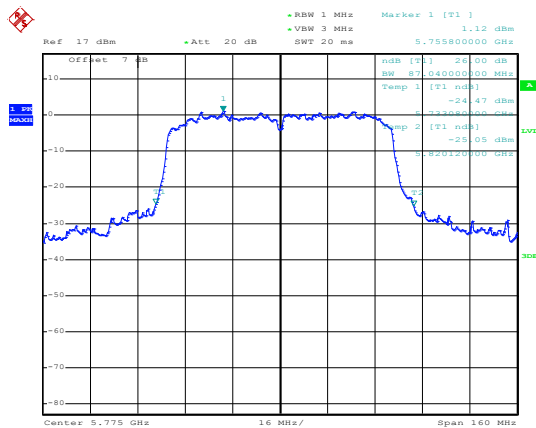
Date: 24.NOV.2019 20:15:58



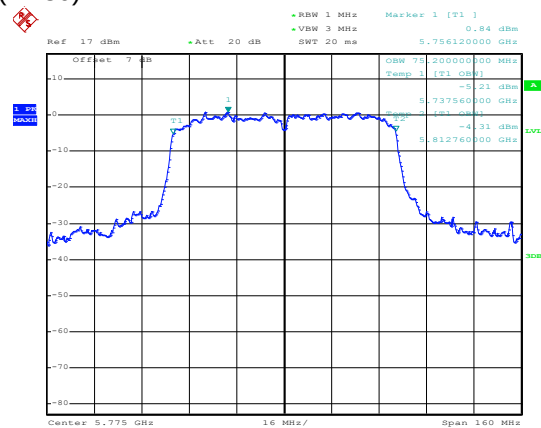
Date: 24.NOV.2019 20:17:27

## Highest channel

## 802.11ac(HT80)



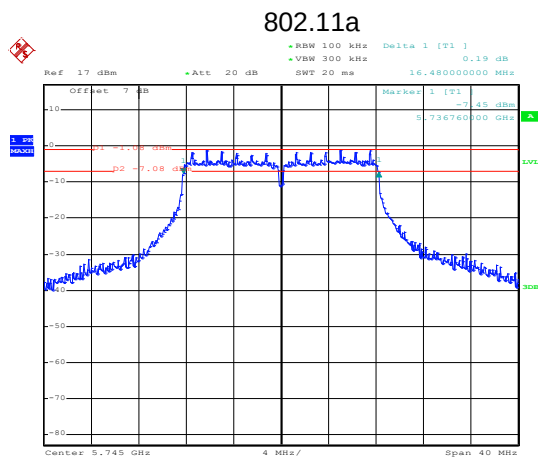
Date: 24.NOV.2019 20:24:52



Date: 24.NOV.2019 20:25:05

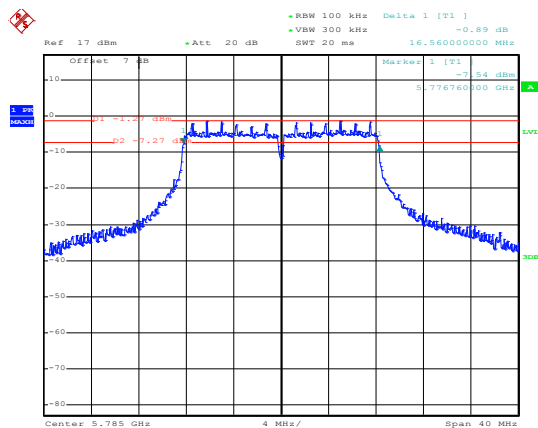
## Middle channel

## 6dB BW



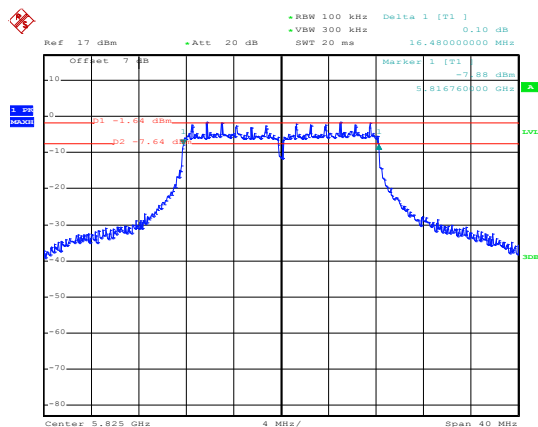
Date: 24.NOV.2019 20:38:08

## Lowest channel



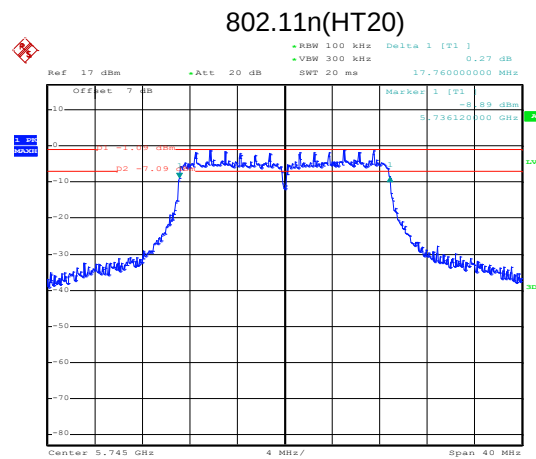
Date: 24.NOV.2019 20:39:49

## Middle channel



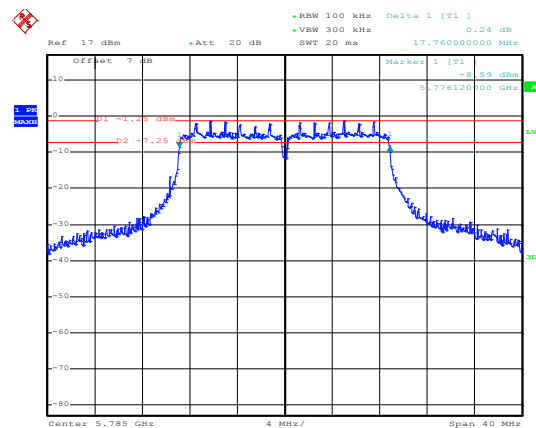
Date: 24.NOV.2019 20:41:16

## Highest channel



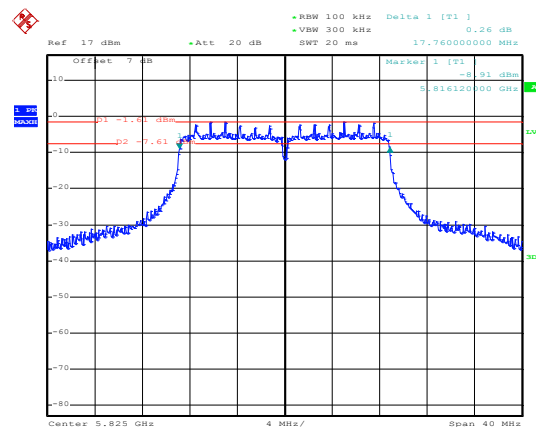
Date: 24.NOV.2019 20:35:57

## Lowest channel



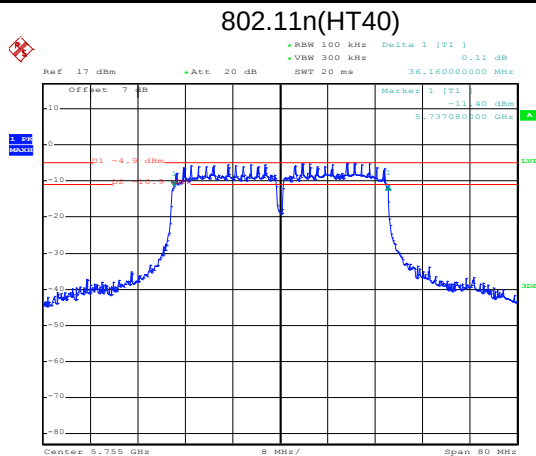
Date: 24.NOV.2019 20:34:36

## Middle channel



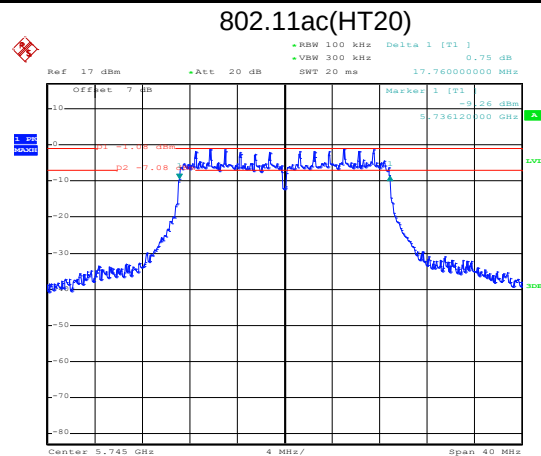
Date: 24.NOV.2019 20:33:25

## Highest channel



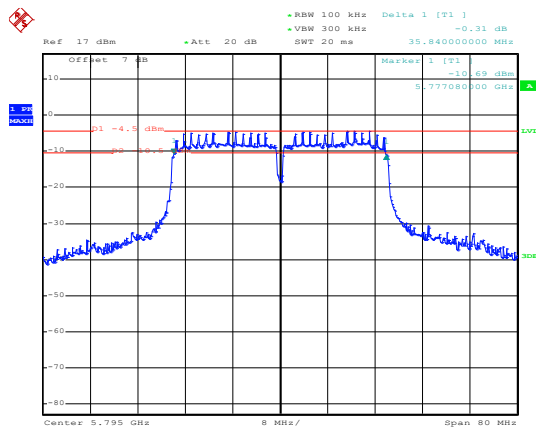
Date: 24.NOV.2019 20:42:43

Lowest channel



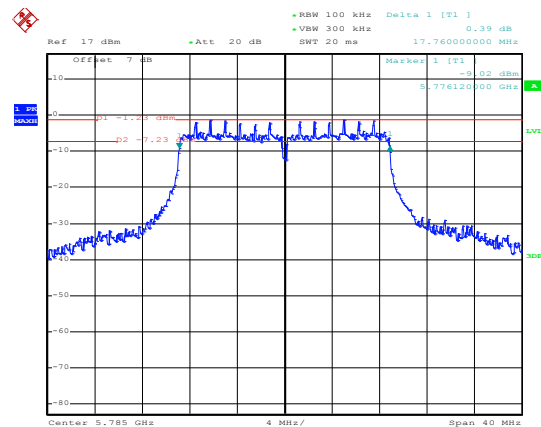
Date: 24.NOV.2019 20:29:06

Lowest channel



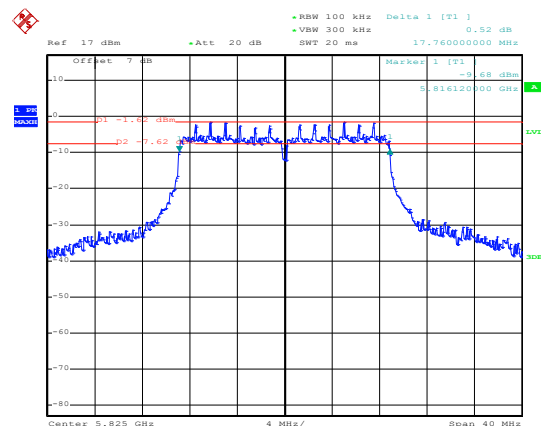
Date: 24.NOV.2019 20:44:29

Highest channel



Date: 24.NOV.2019 20:30:44

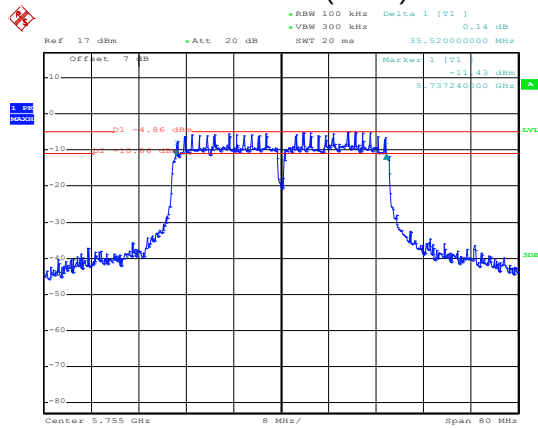
Middle channel



Date: 24.NOV.2019 20:31:45

Highest channel

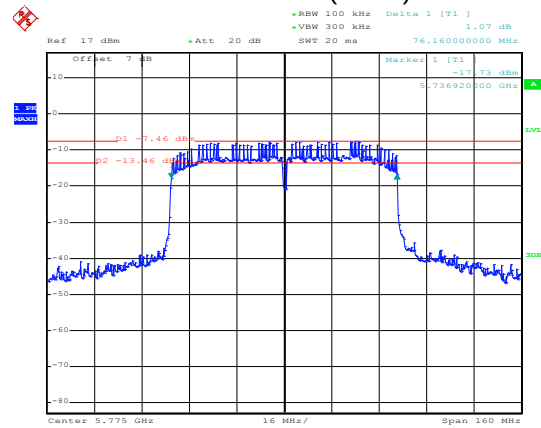
## 802.11ac(HT40)



Date: 24.NOV.2019 20:22:08

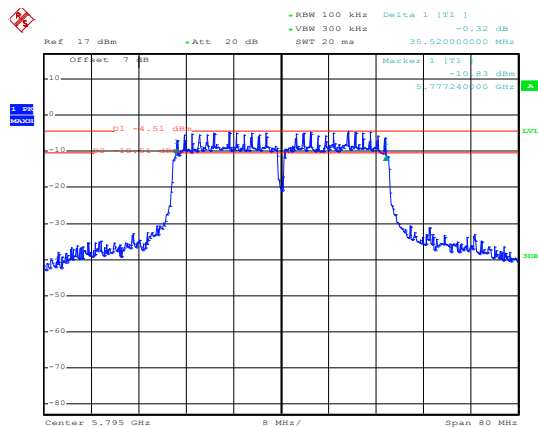
## Lowest channel

## 802.11ac(HT80)



Date: 24.NOV.2019 20:24:02

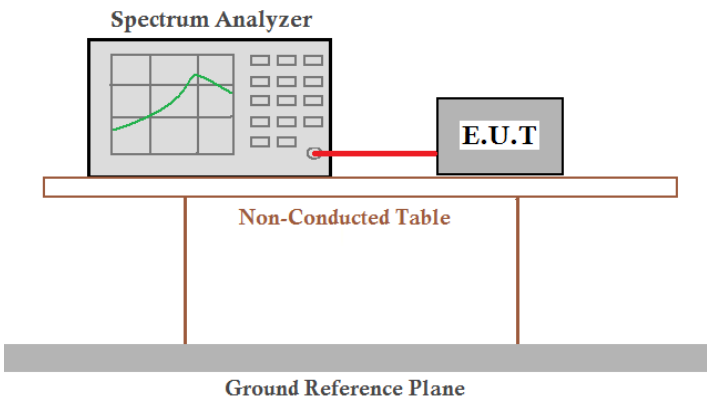
## Middle channel



Date: 24.NOV.2019 20:20:40

## Highest channel

## 6.5 Power Spectral Density

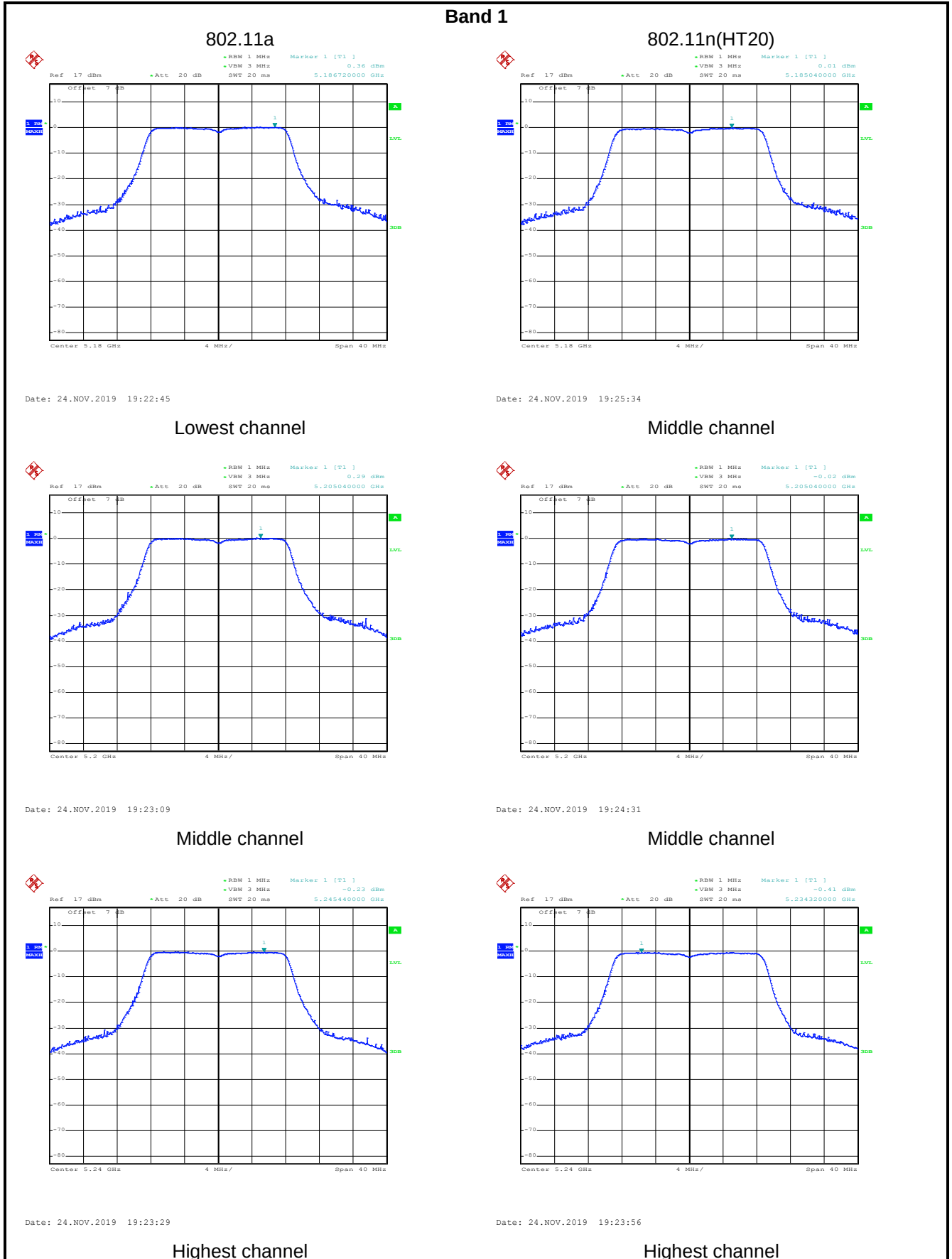
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 (a) (1) (iv) & (a)(3)                                                                                                                                                                                                                                                                                                                                                                                    |
| Limit:            | Band 1: 11 dBm/MHz<br>Band 4: 30 dBm/500kHz                                                                                                                                                                                                                                                                                                                                                                                          |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green curve, is connected to an E.U.T (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a table labeled 'Non-Conducted Table'. Below this table is a thick grey bar labeled 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Measurement Data:

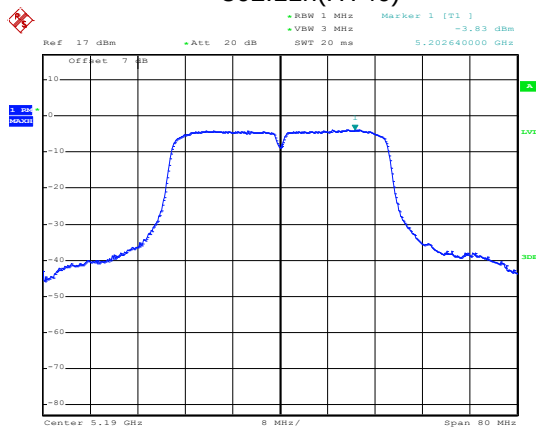
| Band 1         |         |           |             |        |
|----------------|---------|-----------|-------------|--------|
| Mode           | Test CH | PSD (dBm) | Limit (dBm) | Result |
| 802.11a        | Lowest  | 0.36      | 11.00       | Pass   |
|                | Middle  | 0.29      |             |        |
|                | Highest | -0.23     |             |        |
| 802.11n(HT20)  | Lowest  | 0.01      | 11.00       | Pass   |
|                | Middle  | -0.02     |             |        |
|                | Highest | -0.41     |             |        |
| 802.11n(HT40)  | Lowest  | -3.83     | 11.00       | Pass   |
|                | Highest | -4.58     |             |        |
| 802.11ac(HT20) | Lowest  | -0.10     | 11.00       | Pass   |
|                | Middle  | -0.23     |             |        |
|                | Highest | -0.65     |             |        |
| 802.11ac(HT40) | Lowest  | -3.77     | 11.00       | Pass   |
|                | Highest | -4.47     |             |        |
| 802.11ac(HT80) | Middle  | -6.93     | 11.00       | Pass   |

| Band 4     |         |           |             |        |
|------------|---------|-----------|-------------|--------|
| Mode       | Test CH | PSD (dBm) | Limit (dBm) | Result |
| 802.11a    | Lowest  | 3.40      | 30.00       | Pass   |
|            | Middle  | 2.73      |             |        |
|            | Highest | 2.39      |             |        |
| 802.11n20  | Lowest  | 2.35      | 30.00       | Pass   |
|            | Middle  | 2.35      |             |        |
|            | Highest | 2.77      |             |        |
| 802.11n40  | Lowest  | -2.26     | 30.00       | Pass   |
|            | Highest | -1.70     |             |        |
| 802.11ac20 | Lowest  | 2.91      | 30.00       | Pass   |
|            | Middle  | 2.10      |             |        |
|            | Highest | 2.25      |             |        |
| 802.11ac40 | Lowest  | -2.31     | 30.00       | Pass   |
|            | Highest | -1.25     |             |        |
| 802.11ac80 | Middle  | -4.95     | 30.00       | Pass   |

Test plot as follows:

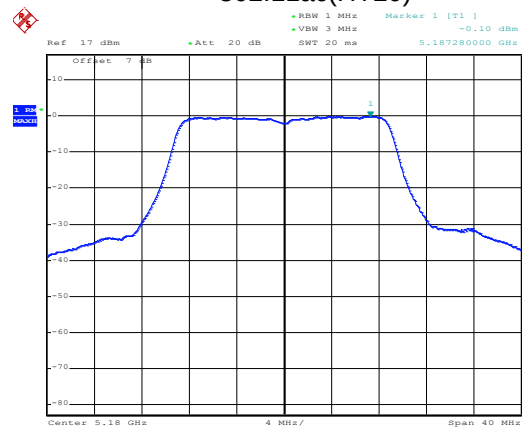


802.11n(HT40)



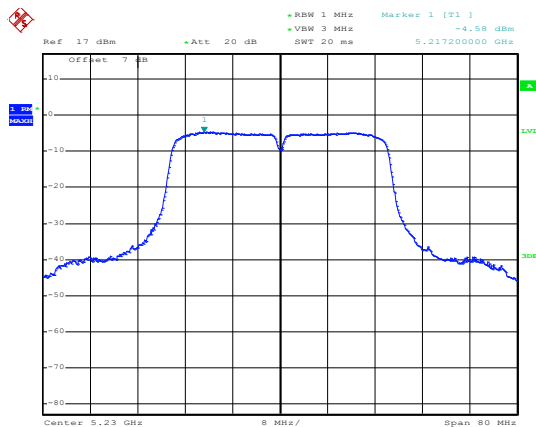
Date: 24.NOV.2019 19:26:32

802.11ac(HT20)



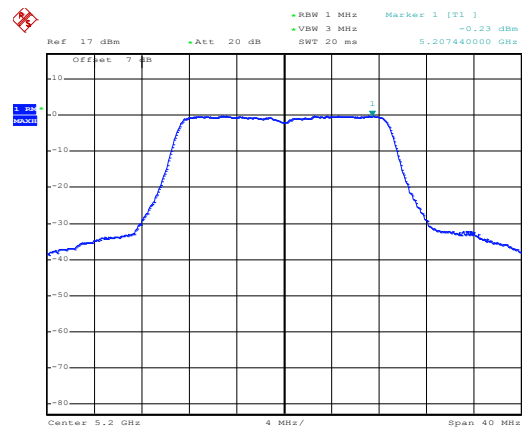
Date: 24.NOV.2019 19:41:47

Lowest channel



Date: 24.NOV.2019 19:26:59

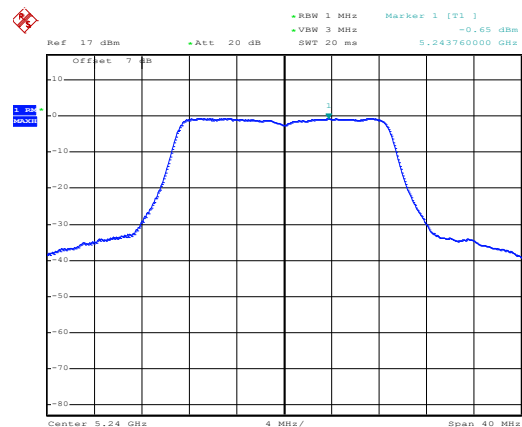
Middle channel



Date: 24.NOV.2019 19:42:07

Highest channel

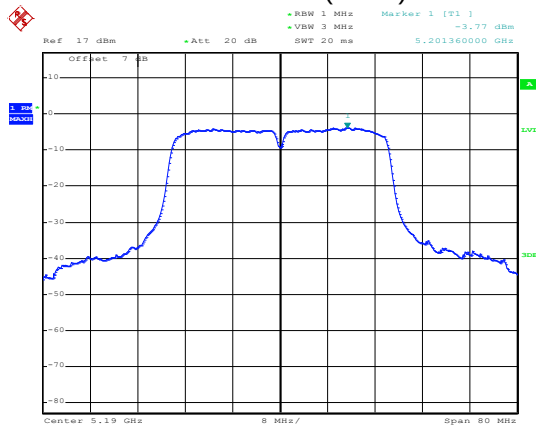
Middle channel



Date: 24.NOV.2019 19:42:29

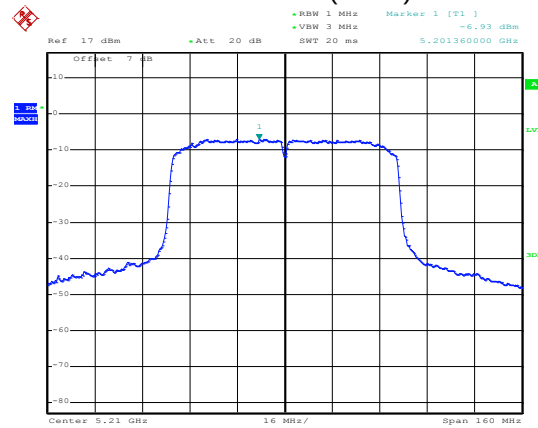
Highest channel

802.11ac(HT40)



Date: 24.NOV.2019 19:40:17

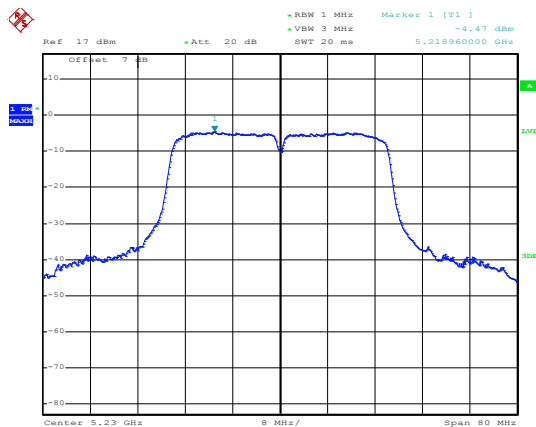
802.11ac(HT80)



Date: 24.NOV.2019 19:28:33

Lowest channel

Middle channel

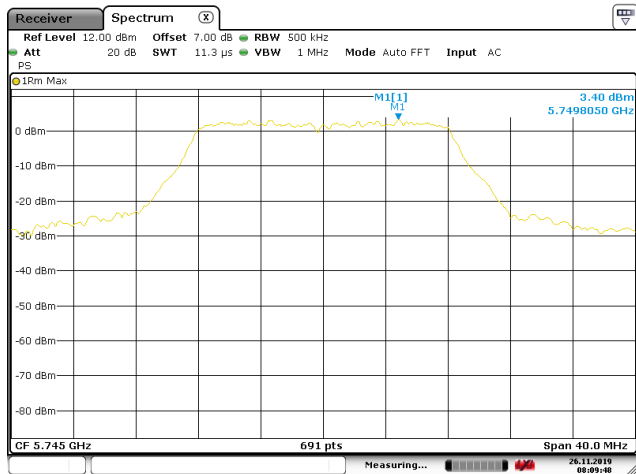


Date: 24.NOV.2019 19:40:57

Highest channel

## Band 4

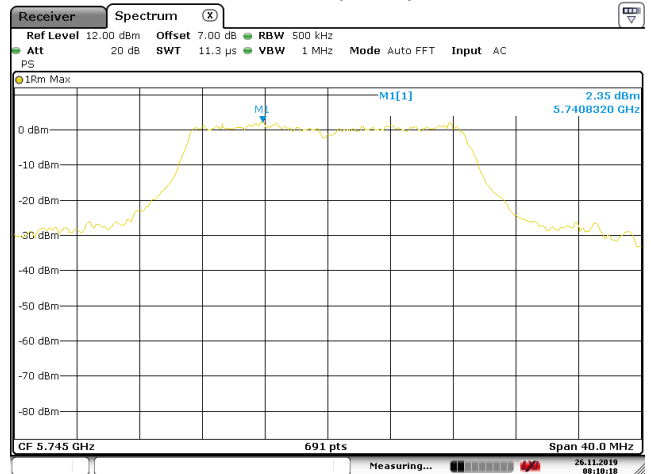
802.11a



Date: 26.NOV.2019 08:09:48

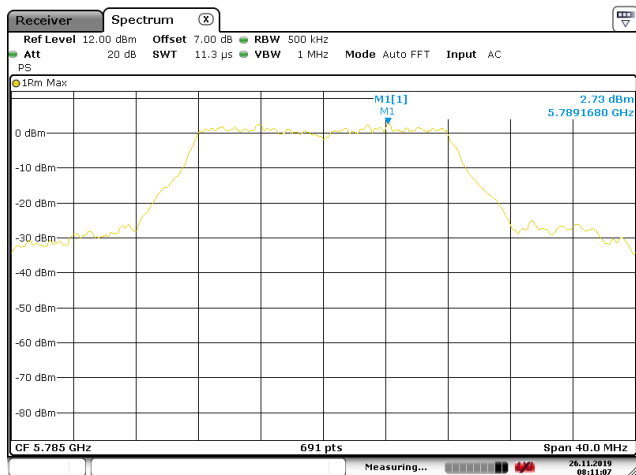
Lowest channel

802.11n(HT20)



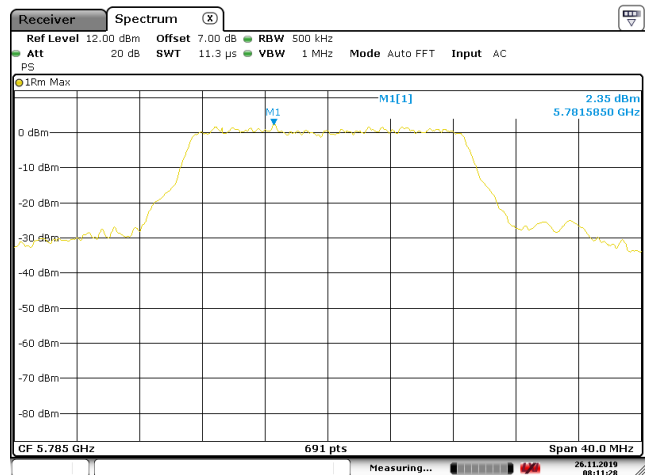
Date: 26.NOV.2019 08:10:18

Middle channel



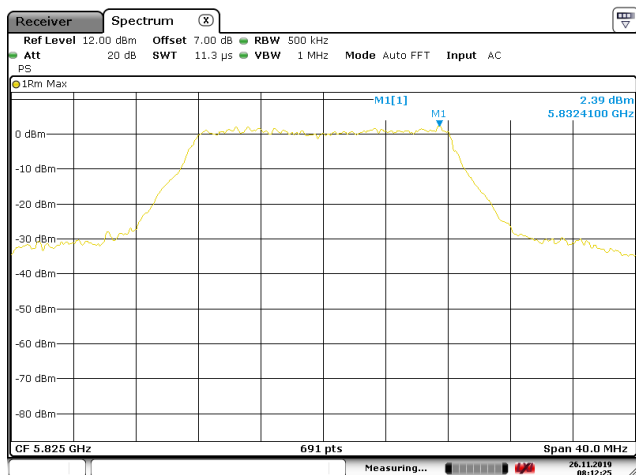
Date: 26.NOV.2019 08:11:08

Middle channel



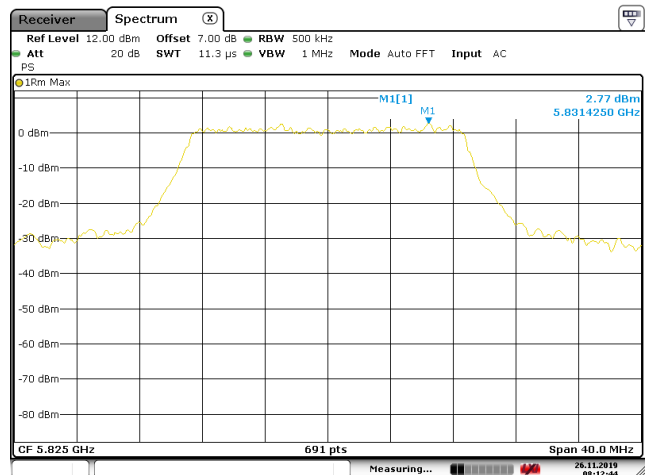
Date: 26.NOV.2019 08:11:29

Middle channel



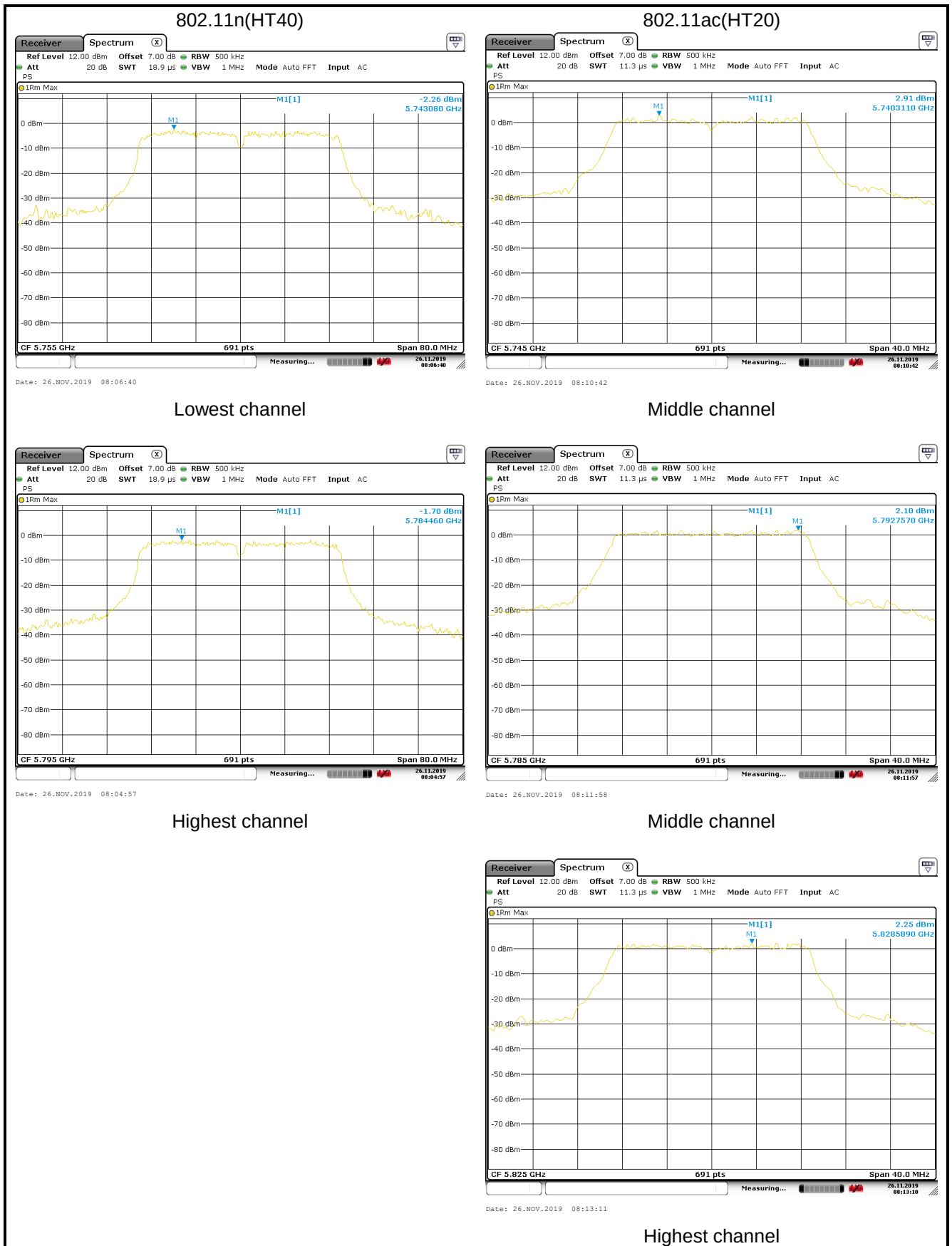
Date: 26.NOV.2019 08:12:26

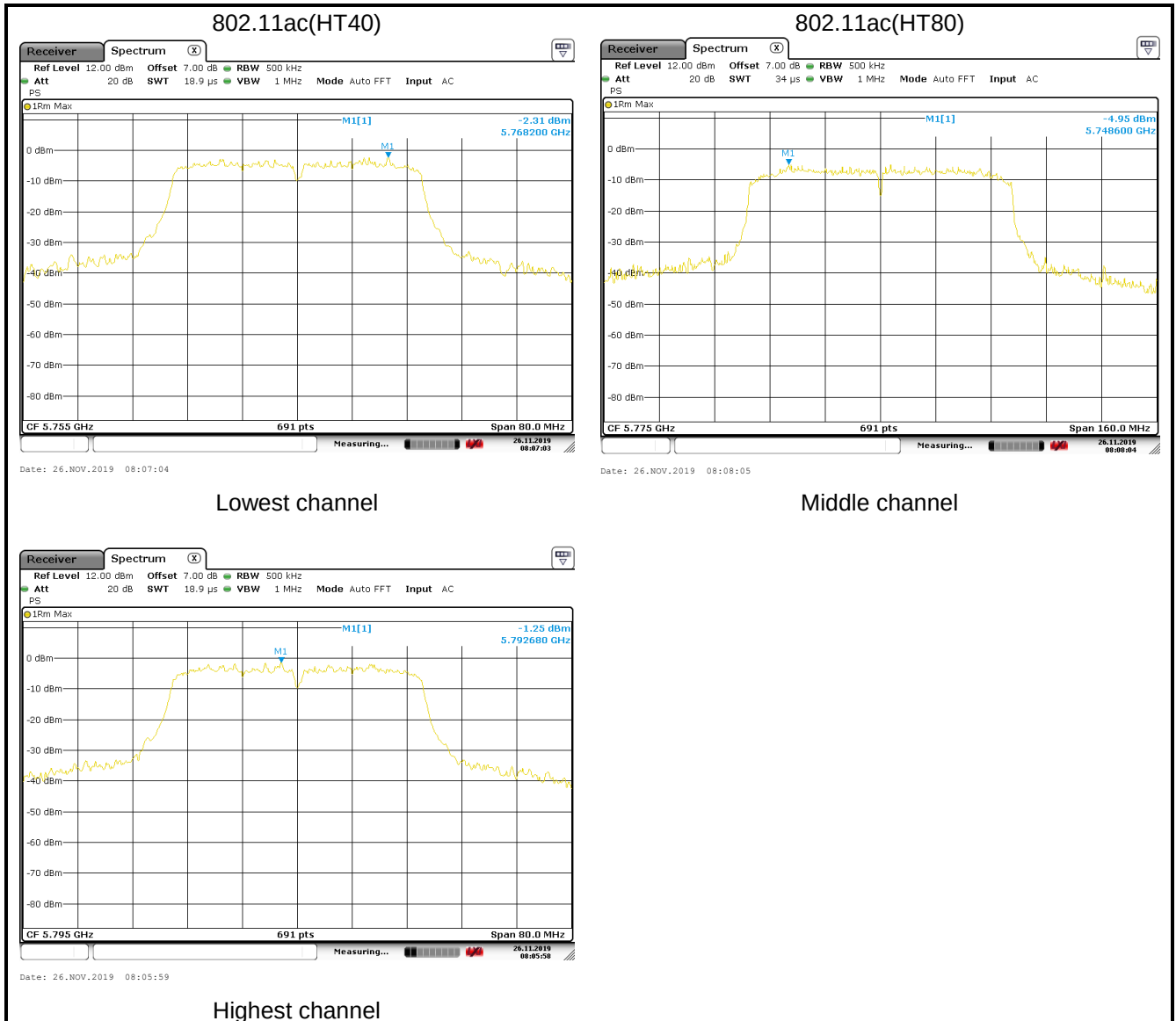
Highest channel



Date: 26.NOV.2019 08:12:44

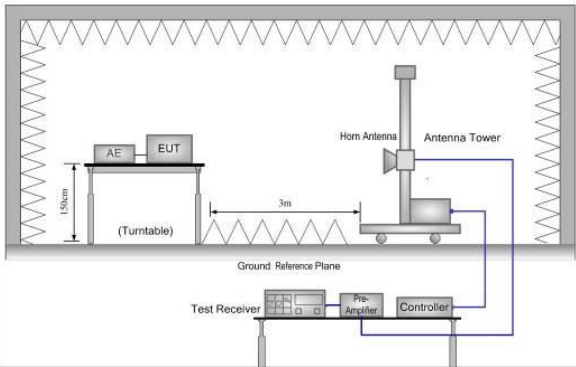
Highest channel





## 6.6 Band Edge

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |        |                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|------------------|
| Test Requirement: | FCC Part 15 E Section 15.407 (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |        |                  |
| Receiver setup:   | Detector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RBW                | VBW    | Remark           |
|                   | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 120kHz             | 300kHz | Quasi-peak Value |
|                   | RMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1MHz               | 3MHz   | Average Value    |
| Limit:            | Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Limit (dBuV/m @3m) |        | Remark           |
|                   | Band 1/2/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 68.20              |        | Peak Value       |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 54.00              |        | Average Value    |
|                   | Band 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 78.20              |        | Peak Value       |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 54.00              |        | Average Value    |
|                   | Band 4 limit:<br>For transmitters operating in the 5.725-5.85 GHz band:<br>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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |        |                  |
|                   | Remark:<br>1. Band 1 limit:<br>E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm.<br>2. Band 4 limit:<br>E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm.<br>E[dBμV/m] = EIRP[dBm] + 95.2=105.2 dBuV/m, for EIPR[dBm]=10dBm.<br>E[dBμV/m] = EIRP[dBm] + 95.2=110.8 dBuV/m, for EIPR[dBm]=15.6dBm.<br>E[dBμV/m] = EIRP[dBm] + 95.2=122.2 dBuV/m, for EIPR[dBm]=27dBm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |        |                  |
| Test Procedure:   | 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.<br>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.<br>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |                    |        |                  |

|                   |                                                                                    |  |
|-------------------|------------------------------------------------------------------------------------|--|
| Test setup:       |  |  |
| Test Instruments: | Refer to section 5.10 for details                                                  |  |
| Test mode:        | Refer to section 5.3 for details                                                   |  |
| Test results:     | Passed                                                                             |  |

## Measurement Data (worst case):

## Band 1:

| Band 1 – 802.11a                                                                                                                                                                                                      |                     |                     |                 |                          |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                          |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 47.40               | 36.23               | 7.05            | 41.93                    | 48.75          | 68.20               | -19.45          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 50.52               | 36.23               | 7.05            | 41.93                    | 51.87          | 68.20               | -16.33          | Vertical     |
| Detector: Average Value                                                                                                                                                                                               |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 36.07               | 36.23               | 7.05            | 41.93                    | 37.42          | 54.00               | -16.58          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 40.61               | 36.23               | 7.05            | 41.93                    | 41.96          | 54.00               | -12.04          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                         |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 46.02               | 35.37               | 7.11            | 41.89                    | 46.61          | 68.20               | -21.59          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 44.73               | 35.37               | 7.11            | 41.89                    | 45.32          | 68.20               | -22.88          | Vertical     |
| Detector: Average Value                                                                                                                                                                                               |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 36.55               | 35.37               | 7.11            | 41.89                    | 37.14          | 54.00               | -16.86          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 33.60               | 35.37               | 7.11            | 41.89                    | 34.19          | 54.00               | -19.81          | Vertical     |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                          |                |                     |                 |              |

| Band 1 – 802.11n(HT20)                                                                                                                                                                                                |                     |                     |                 |                          |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                          |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak                                                                                                                                                                                                        |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 47.26               | 36.23               | 7.05            | 41.93                    | 48.61          | 68.20               | -19.59          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 50.38               | 36.23               | 7.05            | 41.93                    | 51.73          | 68.20               | -16.47          | Vertical     |
| Detector: Average                                                                                                                                                                                                     |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 36.12               | 36.23               | 7.05            | 41.93                    | 37.47          | 54.00               | -16.53          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 40.29               | 36.23               | 7.05            | 41.93                    | 41.64          | 54.00               | -12.36          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                         |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 46.89               | 35.37               | 7.11            | 41.89                    | 47.48          | 68.20               | -20.72          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 45.32               | 35.37               | 7.11            | 41.89                    | 45.91          | 68.20               | -22.29          | Vertical     |
| Detector: Average Value                                                                                                                                                                                               |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 36.74               | 35.37               | 7.11            | 41.89                    | 37.33          | 54.00               | -16.67          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 34.89               | 35.37               | 7.11            | 41.89                    | 35.48          | 54.00               | -18.52          | Vertical     |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                          |                |                     |                 |              |

| Band 1 – 802.11n(HT40)                                                                                                                                                                                                |                     |                     |                 |                          |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                          |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 48.89               | 34.98               | 7.05            | 41.93                    | 48.99          | 68.20               | -19.21          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 51.35               | 34.98               | 7.05            | 41.93                    | 51.45          | 68.20               | -16.75          | Vertical     |
| Detector: Average Value                                                                                                                                                                                               |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 36.21               | 34.98               | 7.05            | 41.93                    | 36.31          | 54.00               | -17.69          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 40.97               | 34.98               | 7.05            | 41.93                    | 41.07          | 54.00               | -12.93          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                         |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 44.26               | 35.37               | 35.37           | 7.11                     | 41.89          | 68.20               | -26.31          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 44.67               | 35.37               | 35.37           | 7.11                     | 41.89          | 68.20               | -26.31          | Vertical     |
| Detector: Average Value                                                                                                                                                                                               |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 33.56               | 35.37               | 7.11            | 41.89                    | 34.15          | 54.00               | -19.85          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 34.61               | 35.37               | 7.11            | 41.89                    | 35.20          | 54.00               | -18.80          | Vertical     |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                          |                |                     |                 |              |

| Band 1 – 802.11ac(HT20)                                                                                                                                                                                               |                     |                     |                 |                    |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                          |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 47.53               | 36.23               | 7.05            | 41.93              | 48.88          | 68.20               | -19.32          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 50.27               | 36.23               | 7.05            | 41.93              | 51.62          | 68.20               | -16.58          | Vertical     |
| Detector: Average Value                                                                                                                                                                                               |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 37.26               | 36.23               | 7.05            | 41.93              | 38.61          | 54.00               | -15.39          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 40.12               | 36.23               | 7.05            | 41.93              | 41.47          | 54.00               | -12.53          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                         |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 46.87               | 35.37               | 7.11            | 41.89              | 47.46          | 68.20               | -20.74          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 45.32               | 35.37               | 7.11            | 41.89              | 45.91          | 68.20               | -22.29          | Vertical     |
| Detector: Average Value                                                                                                                                                                                               |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 36.43               | 35.37               | 7.11            | 41.89              | 37.02          | 54.00               | -16.98          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 35.97               | 35.37               | 7.11            | 41.89              | 36.56          | 54.00               | -17.44          | Vertical     |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                    |                |                     |                 |              |

| Band 1 – 802.11ac(HT40)                                                                                                                                                                                               |                     |                     |                 |                    |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                          |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 48.94               | 34.98               | 7.05            | 41.93              | 49.04          | 68.20               | -19.16          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 51.89               | 34.98               | 7.05            | 41.93              | 51.99          | 68.20               | -16.21          | Vertical     |
| Detector: Average Value                                                                                                                                                                                               |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                               | 36.06               | 34.98               | 7.05            | 41.93              | 36.16          | 54.00               | -17.84          | Horizontal   |
| 5150.00                                                                                                                                                                                                               | 41.49               | 34.98               | 7.05            | 41.93              | 41.59          | 54.00               | -12.41          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                         |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 43.99               | 35.37               | 35.37           | 7.11               | 41.89          | 68.20               | -26.31          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 44.36               | 35.37               | 35.37           | 7.11               | 41.89          | 68.20               | -26.31          | Vertical     |
| Detector: Average Value                                                                                                                                                                                               |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                               | 33.63               | 35.37               | 7.11            | 41.89              | 34.22          | 54.00               | -19.78          | Horizontal   |
| 5350.00                                                                                                                                                                                                               | 34.52               | 35.37               | 7.11            | 41.89              | 35.11          | 54.00               | -18.89          | Vertical     |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                    |                |                     |                 |              |

| Band 1 – 802.11ac(HT80)                                                                                                                                                                                                             |                     |                     |                 |                    |                |                     |                 |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                                        |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                                |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                     | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                                             | 51.62               | 36.23               | 7.05            | 41.93              | 52.97          | 68.20               | -15.23          | Horizontal   |
| 5150.00                                                                                                                                                                                                                             | 50.91               | 36.23               | 7.05            | 41.93              | 52.26          | 68.20               | -15.94          | Vertical     |
| Detector: Average Value                                                                                                                                                                                                             |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                     | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                                             | 41.26               | 36.23               | 7.05            | 41.93              | 42.61          | 54.00               | -11.39          | Horizontal   |
| 5150.00                                                                                                                                                                                                                             | 40.37               | 36.23               | 7.05            | 41.93              | 41.72          | 54.00               | -12.28          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                                       |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                                |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                     | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                                             | 45.32               | 35.37               | 7.11            | 41.89              | 45.91          | 68.20               | -22.29          | Horizontal   |
| 5350.00                                                                                                                                                                                                                             | 45.43               | 35.37               | 7.11            | 41.89              | 46.02          | 68.20               | -22.18          | Vertical     |
| Detector: Average Value                                                                                                                                                                                                             |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                     | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                                             | 33.52               | 35.37               | 7.11            | 41.89              | 34.11          | 54.00               | -19.89          | Horizontal   |
| 5350.00                                                                                                                                                                                                                             | 33.54               | 35.37               | 7.11            | 41.89              | 34.13          | 54.00               | -19.87          | Vertical     |
| <b>Remark:</b><br>1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i><br>2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i> |                     |                     |                 |                    |                |                     |                 |              |

## Band 4:

| Band 4 – 802.11a                                                                                                                                                                                               |                     |                     |                 |                    |                |                     |                 |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                   |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00                                                                                                                                                                                                        | 49.45               | 32.68               | 7.45            | 41.85              | 47.73          | 68.20               | -20.47          | Horizontal   |
| 5700.00                                                                                                                                                                                                        | 49.96               | 32.77               | 7.60            | 41.90              | 48.43          | 105.20              | -56.77          | Horizontal   |
| 5720.00                                                                                                                                                                                                        | 49.63               | 32.81               | 7.64            | 41.92              | 48.16          | 110.80              | -62.64          | Horizontal   |
| 5725.00                                                                                                                                                                                                        | 57.93               | 32.81               | 7.69            | 41.94              | 56.49          | 122.20              | -65.71          | Horizontal   |
| 5650.00                                                                                                                                                                                                        | 48.87               | 32.68               | 7.45            | 41.85              | 47.15          | 68.20               | -21.05          | Vertical     |
| 5700.00                                                                                                                                                                                                        | 50.34               | 32.77               | 7.60            | 41.90              | 48.81          | 105.20              | -56.39          | Vertical     |
| 5720.00                                                                                                                                                                                                        | 49.36               | 32.81               | 7.64            | 41.92              | 47.89          | 110.80              | -62.91          | Vertical     |
| 5725.00                                                                                                                                                                                                        | 58.65               | 32.81               | 7.69            | 41.94              | 57.21          | 122.20              | -64.99          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                  |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Highest channel                                                                                                                                                                                      |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00                                                                                                                                                                                                        | 50.49               | 33.04               | 7.45            | 41.85              | 49.13          | 122.20              | -73.07          | Horizontal   |
| 5855.00                                                                                                                                                                                                        | 49.26               | 33.05               | 7.60            | 41.90              | 48.01          | 110.80              | -62.79          | Horizontal   |
| 5875.00                                                                                                                                                                                                        | 48.78               | 33.08               | 7.64            | 41.92              | 47.58          | 105.20              | -57.62          | Horizontal   |
| 5925.00                                                                                                                                                                                                        | 49.10               | 33.17               | 7.69            | 41.94              | 48.02          | 68.20               | -20.18          | Horizontal   |
| 5850.00                                                                                                                                                                                                        | 52.41               | 33.04               | 7.45            | 41.85              | 51.05          | 122.20              | -71.15          | Vertical     |
| 5855.00                                                                                                                                                                                                        | 50.15               | 33.05               | 7.60            | 41.90              | 48.90          | 110.80              | -61.90          | Vertical     |
| 5875.00                                                                                                                                                                                                        | 49.52               | 33.08               | 7.64            | 41.92              | 48.32          | 105.20              | -56.88          | Vertical     |
| 5925.00                                                                                                                                                                                                        | 49.23               | 33.17               | 7.69            | 41.94              | 48.15          | 68.20               | -20.05          | Vertical     |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                    |                |                     |                 |              |

| Band 4 – 802.11n(HT20)                                                                                                                                                                                         |                     |                     |                 |                          |                |                     |                 |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                   |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00                                                                                                                                                                                                        | 49.26               | 32.68               | 7.45            | 41.85                    | 47.54          | 68.20               | -20.66          | Horizontal   |
| 5700.00                                                                                                                                                                                                        | 49.87               | 32.77               | 7.60            | 41.90                    | 48.34          | 105.20              | -56.86          | Horizontal   |
| 5720.00                                                                                                                                                                                                        | 49.58               | 32.81               | 7.64            | 41.92                    | 48.11          | 110.80              | -62.69          | Horizontal   |
| 5725.00                                                                                                                                                                                                        | 56.97               | 32.81               | 7.69            | 41.94                    | 55.53          | 122.20              | -66.67          | Horizontal   |
| 5650.00                                                                                                                                                                                                        | 48.93               | 32.68               | 7.45            | 41.85                    | 47.21          | 68.20               | -20.99          | Vertical     |
| 5700.00                                                                                                                                                                                                        | 50.27               | 32.77               | 7.60            | 41.90                    | 48.74          | 105.20              | -56.46          | Vertical     |
| 5720.00                                                                                                                                                                                                        | 49.86               | 32.81               | 7.64            | 41.92                    | 48.39          | 110.80              | -62.41          | Vertical     |
| 5725.00                                                                                                                                                                                                        | 57.97               | 32.81               | 7.69            | 41.94                    | 56.53          | 122.20              | -65.67          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                  |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00                                                                                                                                                                                                        | 50.37               | 33.04               | 7.45            | 41.85                    | 49.01          | 122.20              | -73.19          | Horizontal   |
| 5855.00                                                                                                                                                                                                        | 49.53               | 33.05               | 7.60            | 41.90                    | 48.28          | 110.80              | -62.52          | Horizontal   |
| 5875.00                                                                                                                                                                                                        | 48.31               | 33.08               | 7.64            | 41.92                    | 47.11          | 105.20              | -58.09          | Horizontal   |
| 5925.00                                                                                                                                                                                                        | 49.07               | 33.17               | 7.69            | 41.94                    | 47.99          | 68.20               | -20.21          | Horizontal   |
| 5850.00                                                                                                                                                                                                        | 52.37               | 33.04               | 7.45            | 41.85                    | 51.01          | 122.20              | -71.19          | Vertical     |
| 5855.00                                                                                                                                                                                                        | 50.09               | 33.05               | 7.60            | 41.90                    | 48.84          | 110.80              | -61.96          | Vertical     |
| 5875.00                                                                                                                                                                                                        | 49.37               | 33.08               | 7.64            | 41.92                    | 48.17          | 105.20              | -57.03          | Vertical     |
| 5925.00                                                                                                                                                                                                        | 49.37               | 33.17               | 7.69            | 41.94                    | 48.29          | 68.20               | -19.91          | Vertical     |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                          |                |                     |                 |              |

| Band 4 – 802.11n(HT40)                                                                                                                                                                                         |                     |                     |                 |                          |                |                     |                 |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                   |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00                                                                                                                                                                                                        | 49.96               | 32.68               | 7.45            | 41.85                    | 48.24          | 68.20               | -19.96          | Horizontal   |
| 5700.00                                                                                                                                                                                                        | 50.21               | 32.77               | 7.60            | 41.90                    | 48.68          | 105.20              | -56.52          | Horizontal   |
| 5720.00                                                                                                                                                                                                        | 56.87               | 32.81               | 7.64            | 41.92                    | 55.40          | 110.80              | -55.40          | Horizontal   |
| 5725.00                                                                                                                                                                                                        | 57.91               | 32.81               | 7.69            | 41.94                    | 56.47          | 122.20              | -65.73          | Horizontal   |
| 5650.00                                                                                                                                                                                                        | 50.03               | 32.68               | 7.45            | 41.85                    | 48.31          | 68.20               | -19.89          | Vertical     |
| 5700.00                                                                                                                                                                                                        | 50.21               | 32.77               | 7.60            | 41.90                    | 48.68          | 105.20              | -56.52          | Vertical     |
| 5720.00                                                                                                                                                                                                        | 56.89               | 32.81               | 7.64            | 41.92                    | 55.42          | 110.80              | -55.38          | Vertical     |
| 5725.00                                                                                                                                                                                                        | 55.67               | 32.81               | 7.69            | 41.94                    | 54.23          | 122.20              | -67.97          | Vertical     |
| Detector: Highest channel                                                                                                                                                                                      |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00                                                                                                                                                                                                        | 49.07               | 33.04               | 7.45            | 41.85                    | 47.71          | 122.20              | -74.49          | Horizontal   |
| 5855.00                                                                                                                                                                                                        | 49.50               | 33.05               | 7.60            | 41.90                    | 48.25          | 110.80              | -62.55          | Horizontal   |
| 5875.00                                                                                                                                                                                                        | 49.37               | 33.08               | 7.64            | 41.92                    | 48.17          | 105.20              | -57.03          | Horizontal   |
| 5925.00                                                                                                                                                                                                        | 48.87               | 33.17               | 7.69            | 41.94                    | 47.79          | 68.20               | -20.41          | Horizontal   |
| 5850.00                                                                                                                                                                                                        | 49.04               | 33.04               | 7.45            | 41.85                    | 47.68          | 122.20              | -74.52          | Vertical     |
| 5855.00                                                                                                                                                                                                        | 48.95               | 33.05               | 7.60            | 41.90                    | 47.70          | 110.80              | -63.10          | Vertical     |
| 5875.00                                                                                                                                                                                                        | 48.97               | 33.08               | 7.64            | 41.92                    | 47.77          | 105.20              | -57.43          | Vertical     |
| 5925.00                                                                                                                                                                                                        | 49.84               | 33.17               | 7.69            | 41.94                    | 48.76          | 68.20               | -19.44          | Vertical     |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                          |                |                     |                 |              |

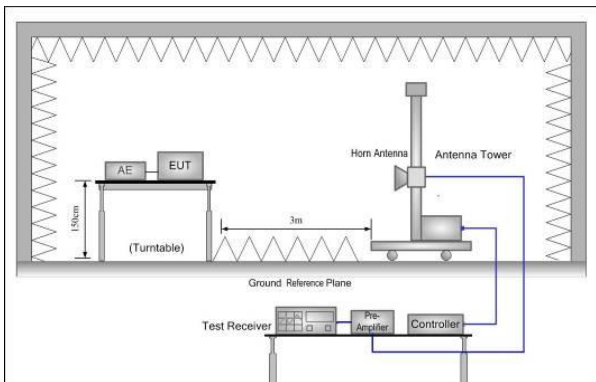
| Band 4 – 802.11ac(HT20)                                                                                                                                                                                        |                     |                     |                 |                          |                |                     |                 |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                   |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00                                                                                                                                                                                                        | 49.52               | 32.68               | 7.45            | 41.85                    | 47.80          | 68.20               | -20.40          | Horizontal   |
| 5700.00                                                                                                                                                                                                        | 49.61               | 32.77               | 7.60            | 41.90                    | 48.08          | 105.20              | -57.12          | Horizontal   |
| 5720.00                                                                                                                                                                                                        | 49.83               | 32.81               | 7.64            | 41.92                    | 48.36          | 110.80              | -62.44          | Horizontal   |
| 5725.00                                                                                                                                                                                                        | 56.97               | 32.81               | 7.69            | 41.94                    | 55.53          | 122.20              | -66.67          | Horizontal   |
| 5650.00                                                                                                                                                                                                        | 48.89               | 32.68               | 7.45            | 41.85                    | 47.17          | 68.20               | -21.03          | Vertical     |
| 5700.00                                                                                                                                                                                                        | 50.67               | 32.77               | 7.60            | 41.90                    | 49.14          | 105.20              | -56.06          | Vertical     |
| 5720.00                                                                                                                                                                                                        | 49.76               | 32.81               | 7.64            | 41.92                    | 48.29          | 110.80              | -62.51          | Vertical     |
| 5725.00                                                                                                                                                                                                        | 58.97               | 32.81               | 7.69            | 41.94                    | 57.53          | 122.20              | -64.67          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                  |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00                                                                                                                                                                                                        | 50.37               | 33.04               | 7.45            | 41.85                    | 49.01          | 122.20              | -73.19          | Horizontal   |
| 5855.00                                                                                                                                                                                                        | 49.26               | 33.05               | 7.60            | 41.90                    | 48.01          | 110.80              | -62.79          | Horizontal   |
| 5875.00                                                                                                                                                                                                        | 48.97               | 33.08               | 7.64            | 41.92                    | 47.77          | 105.20              | -57.43          | Horizontal   |
| 5925.00                                                                                                                                                                                                        | 49.21               | 33.17               | 7.69            | 41.94                    | 48.13          | 68.20               | -20.07          | Horizontal   |
| 5850.00                                                                                                                                                                                                        | 52.37               | 33.04               | 7.45            | 41.85                    | 51.01          | 122.20              | -71.19          | Vertical     |
| 5855.00                                                                                                                                                                                                        | 50.26               | 33.05               | 7.60            | 41.90                    | 49.01          | 110.80              | -61.79          | Vertical     |
| 5875.00                                                                                                                                                                                                        | 49.67               | 33.08               | 7.64            | 41.92                    | 48.47          | 105.20              | -56.73          | Vertical     |
| 5925.00                                                                                                                                                                                                        | 49.27               | 33.17               | 7.69            | 41.94                    | 48.19          | 68.20               | -20.01          | Vertical     |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                          |                |                     |                 |              |

| Band 4 – 802.11ac(HT40)                                                                                                                                                                                        |                     |                     |                 |                    |                |                     |                 |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                   |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00                                                                                                                                                                                                        | 49.92               | 32.68               | 7.45            | 41.85              | 48.20          | 68.20               | -20.00          | Horizontal   |
| 5700.00                                                                                                                                                                                                        | 50.29               | 32.77               | 7.60            | 41.90              | 48.76          | 105.20              | -56.44          | Horizontal   |
| 5720.00                                                                                                                                                                                                        | 56.83               | 32.81               | 7.64            | 41.92              | 55.36          | 110.80              | -55.44          | Horizontal   |
| 5725.00                                                                                                                                                                                                        | 57.96               | 32.81               | 7.69            | 41.94              | 56.52          | 122.20              | -65.68          | Horizontal   |
| 5650.00                                                                                                                                                                                                        | 50.12               | 32.68               | 7.45            | 41.85              | 48.40          | 68.20               | -19.80          | Vertical     |
| 5700.00                                                                                                                                                                                                        | 50.27               | 32.77               | 7.60            | 41.90              | 48.74          | 105.20              | -56.46          | Vertical     |
| 5720.00                                                                                                                                                                                                        | 56.91               | 32.81               | 7.64            | 41.92              | 55.44          | 110.80              | -55.36          | Vertical     |
| 5725.00                                                                                                                                                                                                        | 55.87               | 32.81               | 7.69            | 41.94              | 54.43          | 122.20              | -67.77          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                  |                     |                     |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00                                                                                                                                                                                                        | 49.13               | 53.95               | 7.45            | 41.85              | 68.68          | 122.20              | -53.52          | Horizontal   |
| 5855.00                                                                                                                                                                                                        | 49.53               | 52.84               | 7.60            | 41.90              | 68.07          | 110.80              | -42.73          | Horizontal   |
| 5875.00                                                                                                                                                                                                        | 49.21               | 49.10               | 7.64            | 41.92              | 64.03          | 105.20              | -41.17          | Horizontal   |
| 5925.00                                                                                                                                                                                                        | 48.61               | 48.50               | 7.69            | 41.94              | 62.86          | 68.20               | -5.34           | Horizontal   |
| 5850.00                                                                                                                                                                                                        | 49.29               | 33.04               | 7.45            | 41.85              | 47.93          | 122.20              | -74.27          | Vertical     |
| 5855.00                                                                                                                                                                                                        | 48.91               | 33.05               | 7.60            | 41.90              | 47.66          | 110.80              | -63.14          | Vertical     |
| 5875.00                                                                                                                                                                                                        | 48.92               | 33.08               | 7.64            | 41.92              | 47.72          | 105.20              | -57.48          | Vertical     |
| 5925.00                                                                                                                                                                                                        | 49.86               | 33.17               | 7.69            | 41.94              | 48.78          | 68.20               | -19.42          | Vertical     |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                    |                |                     |                 |              |

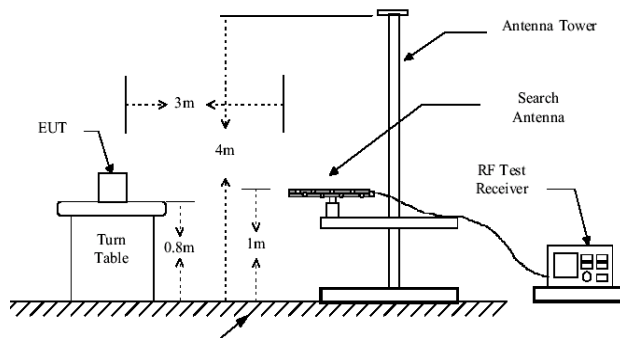
| Band 4 – 802.11ac(HT80)                                                                                                                                                                                        |                     |                     |                 |                          |                |                     |                 |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Middle channel                                                                                                                                                                                   |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00                                                                                                                                                                                                        | 49.70               | 32.68               | 7.45            | 41.85                    | 47.98          | 68.20               | -20.22          | Horizontal   |
| 5700.00                                                                                                                                                                                                        | 55.30               | 32.77               | 7.60            | 41.90                    | 53.77          | 105.20              | -51.43          | Horizontal   |
| 5720.00                                                                                                                                                                                                        | 55.95               | 32.81               | 7.64            | 41.92                    | 54.48          | 110.80              | -56.32          | Horizontal   |
| 5725.00                                                                                                                                                                                                        | 60.29               | 32.81               | 7.69            | 41.94                    | 58.85          | 122.20              | -63.35          | Horizontal   |
| 5650.00                                                                                                                                                                                                        | 49.95               | 32.68               | 7.45            | 41.85                    | 48.23          | 68.20               | -19.97          | Vertical     |
| 5700.00                                                                                                                                                                                                        | 54.58               | 32.77               | 7.60            | 41.90                    | 53.05          | 105.20              | -52.15          | Vertical     |
| 5720.00                                                                                                                                                                                                        | 59.15               | 32.81               | 7.64            | 41.92                    | 57.68          | 110.80              | -53.12          | Vertical     |
| 5725.00                                                                                                                                                                                                        | 61.18               | 32.81               | 7.69            | 41.94                    | 59.74          | 122.20              | -62.46          | Vertical     |
| Test channel: Middle channel                                                                                                                                                                                   |                     |                     |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                     |                     |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00                                                                                                                                                                                                        | 49.07               | 33.04               | 7.45            | 41.85                    | 47.71          | 122.20              | -74.49          | Horizontal   |
| 5855.00                                                                                                                                                                                                        | 49.50               | 33.05               | 7.60            | 41.90                    | 48.25          | 110.80              | -62.55          | Horizontal   |
| 5875.00                                                                                                                                                                                                        | 49.37               | 33.08               | 7.64            | 41.92                    | 48.17          | 105.20              | -57.03          | Horizontal   |
| 5925.00                                                                                                                                                                                                        | 48.87               | 33.17               | 7.69            | 41.94                    | 47.79          | 68.20               | -20.41          | Horizontal   |
| 5850.00                                                                                                                                                                                                        | 57.82               | 33.04               | 7.45            | 41.85                    | 56.46          | 122.20              | -65.74          | Vertical     |
| 5855.00                                                                                                                                                                                                        | 57.60               | 33.05               | 7.60            | 41.90                    | 56.35          | 110.80              | -54.45          | Vertical     |
| 5875.00                                                                                                                                                                                                        | 51.98               | 33.08               | 7.64            | 41.92                    | 50.78          | 105.20              | -54.42          | Vertical     |
| 5925.00                                                                                                                                                                                                        | 48.99               | 33.17               | 7.69            | 41.94                    | 47.91          | 68.20               | -20.29          | Vertical     |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                          |                |                     |                 |              |

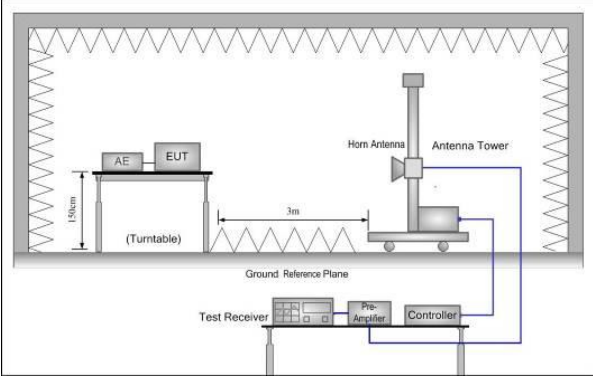
## 6.7 Spurious Emission

### 6.7.1 Restricted Band

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |      |               |               |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|---------------|---------------|
| Test Requirement:     | FCC Part15 E Section 15.407(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |      |               |               |
| Test Frequency Range: | 4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |      |               |               |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |      |               |               |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Detector           | RBW  | VBW           | Remark        |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Peak               | 1MHz | 3MHz          | Peak Value    |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RMS                | 1MHz | 3MHz          | Average Value |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limit (dBuV/m @3m) |      | Remark        |               |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 74.00              |      | Peak Value    |               |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 54.00              |      | Average Value |               |
| Test Procedure:       | <div><div>1.</div><div>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div><div>2.</div><div>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div><div>3.</div><div>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div><div>4.</div><div>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div><div>5.</div><div>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div><div>6.</div><div>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div></div> |                    |      |               |               |
| Test setup:           | <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |      |               |               |
| Test Instruments:     | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |      |               |               |
| Test mode:            | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |      |               |               |
| Test results:         | Passed(Refer to section 6.8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |      |               |               |

## 6.7.2 Unwanted Emissions out of the Restricted Bands

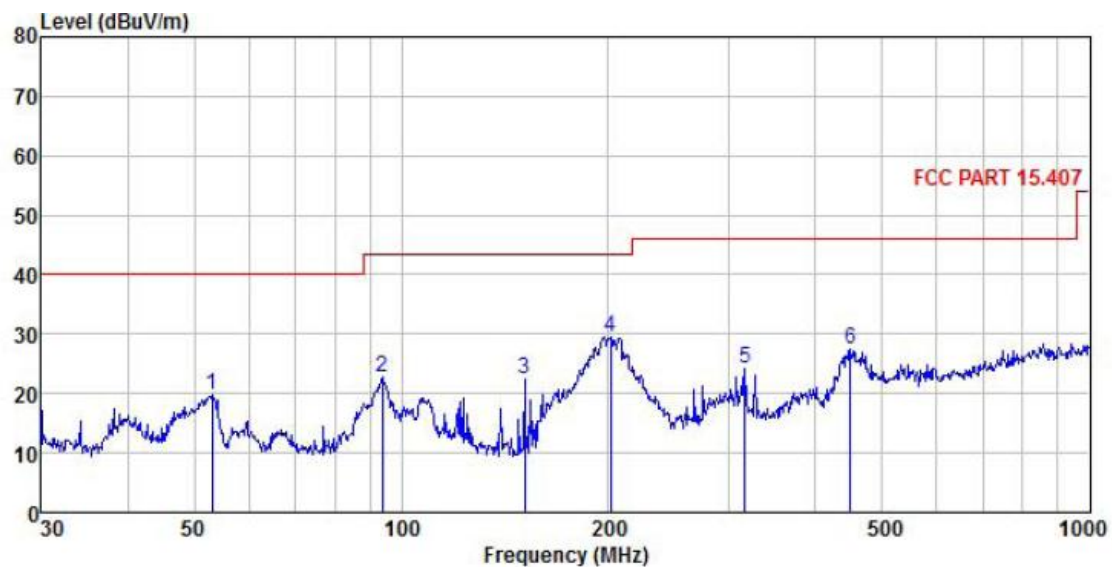
|                       |                                                                                                                                                                                                                                                                                                                                                        |                    |        |        |                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|--------|------------------|
| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                 |                    |        |        |                  |
| Test Frequency Range: | 30MHz to 40GHz                                                                                                                                                                                                                                                                                                                                         |                    |        |        |                  |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                               |                    |        |        |                  |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                              | Detector           | RBW    | VBW    | Remark           |
|                       | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                             | Quasi-peak         | 100kHz | 300kHz | Quasi-peak Value |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                             | Peak               | 1MHz   | 3MHz   | Peak Value       |
|                       |                                                                                                                                                                                                                                                                                                                                                        | RMS                | 1MHz   | 3MHz   | Average Value    |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                              | Limit (dBuV/m @3m) |        |        | Remark           |
|                       | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                            | 40.0               |        |        | Quasi-peak Value |
|                       | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                           | 43.5               |        |        | Quasi-peak Value |
|                       | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                          | 46.0               |        |        | Quasi-peak Value |
|                       | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                            | 54.0               |        |        | Quasi-peak Value |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                             | 68.20              |        |        | Peak Value       |
|                       |                                                                                                                                                                                                                                                                                                                                                        | 54.00              |        |        | Average Value    |
|                       | Remark:                                                                                                                                                                                                                                                                                                                                                |                    |        |        |                  |
|                       | Above 1GHz limit:                                                                                                                                                                                                                                                                                                                                      |                    |        |        |                  |
|                       | $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$ , for $EIPR[dBm] = -27dBm$ .                                                                                                                                                                                                                                                                   |                    |        |        |                  |
| Test Procedure:       | 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.                                                                                                                                     |                    |        |        |                  |
|                       | 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.                                                                                                                                                                                                             |                    |        |        |                  |
|                       | 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.                                                                                                                        |                    |        |        |                  |
|                       | 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.                                                                                                                     |                    |        |        |                  |
|                       | 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.                                                                                                                                                                                                                                            |                    |        |        |                  |
|                       | 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |                    |        |        |                  |
|                       |                                                                                                                                                                                                                                                                                                                                                        |                    |        |        |                  |
| Test setup:           | Below 1GHz                                                                                                                                                                                                                                                                                                                                             |                    |        |        |                  |
|                       |                                                                                                                                                                                                                                                                    |                    |        |        |                  |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                             |                    |        |        |                  |

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
|                   |  |
| Test Instruments: | Refer to section 5.10 for details                                                  |
| Test mode:        | Refer to section 5.3 for details                                                   |
| Test results:     | Passed                                                                             |

## Measurement Data (worst case):

## Below 1GHz

|                 |                    |                |                     |
|-----------------|--------------------|----------------|---------------------|
| Product Name:   | C-One e-ID, RAPID3 | Product Model: | C-One e-ID          |
| Test By:        | Mike               | Test mode:     | 5G Wi-Fi Tx mode    |
| Test Frequency: | 30 MHz ~ 1 GHz     | Polarization:  | Vertical            |
| Test Voltage:   | AC 120/60Hz        | Environment:   | Temp: 24℃ Humi: 57% |

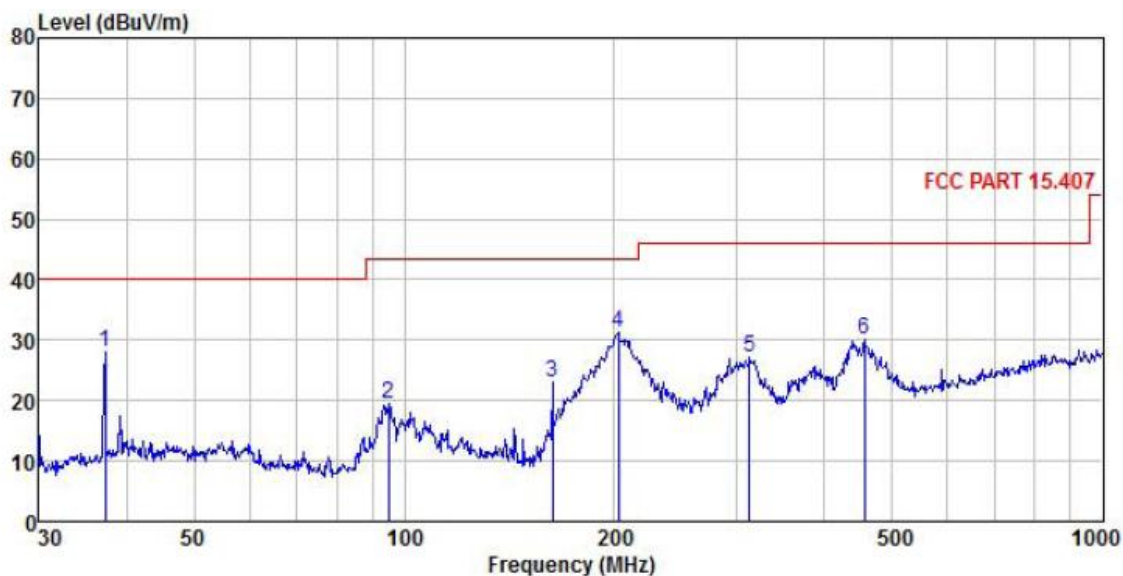


|      | ReadAntenna | Cable Preamp | Limit | Over   |        |
|------|-------------|--------------|-------|--------|--------|
| Freq | Level       | Factor       | Loss  | Factor | Level  |
| MHz  | dBuV        | dB/m         | dB    | dB     | dBuV/m |
| 1    | 53.131      | 36.37        | 11.78 | 1.32   | 29.81  |
| 2    | 93.768      | 39.35        | 10.98 | 2.02   | 29.56  |
| 3    | 151.067     | 40.24        | 8.95  | 2.53   | 29.21  |
| 4    | 201.393     | 44.94        | 10.64 | 2.87   | 28.82  |
| 5    | 315.481     | 35.66        | 13.92 | 2.99   | 28.49  |
| 6    | 449.556     | 36.50        | 16.50 | 3.20   | 28.87  |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

|                 |                    |                |                     |
|-----------------|--------------------|----------------|---------------------|
| Product Name:   | C-One e-ID, RAPID3 | Product Model: | C-One e-ID          |
| Test By:        | Mike               | Test mode:     | 5G Wi-Fi Tx mode    |
| Test Frequency: | 30 MHz ~ 1 GHz     | Polarization:  | Horizontal          |
| Test Voltage:   | AC 120/60Hz        | Environment:   | Temp: 24℃ Humi: 57% |



|   | Freq    | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit Line | Over Limit | Remark |
|---|---------|------------|----------------|------------|---------------|--------|------------|------------|--------|
|   | MHz     | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m     | dB         |        |
| 1 | 37.285  | 44.97      | 11.76          | 1.14       | 29.93         | 27.94  | 40.00      | -12.06     | QP     |
| 2 | 95.093  | 35.57      | 11.39          | 2.01       | 29.55         | 19.42  | 43.50      | -24.08     | QP     |
| 3 | 163.182 | 40.25      | 9.39           | 2.61       | 29.11         | 23.14  | 43.50      | -20.36     | QP     |
| 4 | 202.810 | 46.44      | 10.72          | 2.87       | 28.81         | 31.22  | 43.50      | -12.28     | QP     |
| 5 | 312.179 | 38.82      | 13.87          | 2.98       | 28.48         | 27.19  | 46.00      | -18.81     | QP     |
| 6 | 455.906 | 38.93      | 16.70          | 3.25       | 28.88         | 30.00  | 46.00      | -16.00     | QP     |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## Above 1GHz:

## Band 1:

| Band 1 – 802.11a                                                                                                                                                                                                      |                   |                       |                 |                    |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                          |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                                                                                                                                              | 49.32             | 40.10                 | 9.82            | 41.97              | 57.27          | 68.20               | -10.93          | Vertical     |
| 10360.00                                                                                                                                                                                                              | 48.87             | 40.10                 | 9.82            | 41.97              | 56.82          | 68.20               | -11.38          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                               |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                                                                                                                                              | 40.32             | 40.10                 | 9.82            | 41.97              | 48.27          | 54.00               | -5.73           | Vertical     |
| 10360.00                                                                                                                                                                                                              | 40.29             | 40.10                 | 9.82            | 41.97              | 48.24          | 54.00               | -5.76           | Horizontal   |
| Test channel: Middle channel                                                                                                                                                                                          |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                                                                                                                                              | 49.37             | 40.00                 | 9.85            | 41.95              | 57.27          | 68.20               | -10.93          | Vertical     |
| 10400.00                                                                                                                                                                                                              | 48.89             | 40.00                 | 9.85            | 41.95              | 56.79          | 68.20               | -11.41          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                               |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                                                                                                                                              | 41.26             | 40.00                 | 9.85            | 41.95              | 49.16          | 54.00               | -4.84           | Vertical     |
| 10400.00                                                                                                                                                                                                              | 40.87             | 40.00                 | 9.85            | 41.95              | 48.77          | 54.00               | -5.23           | Horizontal   |
| Test channel: Highest channel                                                                                                                                                                                         |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                                                                                                                                              | 49.23             | 39.70                 | 9.96            | 41.88              | 57.01          | 68.20               | -11.19          | Vertical     |
| 10480.00                                                                                                                                                                                                              | 48.56             | 39.70                 | 9.96            | 41.88              | 56.34          | 68.20               | -11.86          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                               |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                                                                                                                                              | 40.37             | 39.70                 | 9.96            | 41.88              | 48.15          | 54.00               | -5.85           | Vertical     |
| 10480.00                                                                                                                                                                                                              | 39.64             | 39.70                 | 9.96            | 41.88              | 47.42          | 54.00               | -6.58           | Horizontal   |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                    |                |                     |                 |              |

| Band 1 – 802.11n(HT20)                                                                                 |                   |                       |                 |                    |                |                     |                 |              |
|--------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                               | 48.83             | 40.10                 | 9.82            | 41.97              | 56.78          | 68.20               | -11.42          | Vertical     |
| 10360.00                                                                                               | 48.71             | 40.10                 | 9.82            | 41.97              | 56.66          | 68.20               | -11.54          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                               | 40.53             | 40.10                 | 9.82            | 41.97              | 48.48          | 54.00               | -5.52           | Vertical     |
| 10360.00                                                                                               | 40.37             | 40.10                 | 9.82            | 41.97              | 48.32          | 54.00               | -5.68           | Horizontal   |
| Test channel: Middle channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                               | 49.56             | 40.00                 | 9.85            | 41.95              | 57.46          | 68.20               | -10.74          | Vertical     |
| 10400.00                                                                                               | 48.89             | 40.00                 | 9.85            | 41.95              | 56.79          | 68.20               | -11.41          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                               | 40.37             | 40.00                 | 9.85            | 41.95              | 48.27          | 54.00               | -5.73           | Vertical     |
| 10400.00                                                                                               | 39.86             | 40.00                 | 9.85            | 41.95              | 47.76          | 54.00               | -6.24           | Horizontal   |
| Test channel: Highest channel                                                                          |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                               | 48.89             | 39.70                 | 9.96            | 41.88              | 56.67          | 68.20               | -11.53          | Vertical     |
| 10480.00                                                                                               | 48.64             | 39.70                 | 9.96            | 41.88              | 56.42          | 68.20               | -11.78          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                               | 40.59             | 39.70                 | 9.96            | 41.88              | 48.37          | 54.00               | -5.63           | Vertical     |
| 10480.00                                                                                               | 40.21             | 39.70                 | 9.96            | 41.88              | 47.99          | 54.00               | -6.01           | Horizontal   |
| Remark:                                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.              |                   |                       |                 |                    |                |                     |                 |              |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                    |                |                     |                 |              |

| Band 1 – 802.11n(HT40)                                                                                                                                                                                                |                   |                       |                 |                    |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                          |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10380.00                                                                                                                                                                                                              | 49.63             | 40.00                 | 9.85            | 41.95              | 57.53          | 68.20               | -10.67          | Vertical     |
| 10380.00                                                                                                                                                                                                              | 48.97             | 40.00                 | 9.85            | 41.95              | 56.87          | 68.20               | -11.33          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                               |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10380.00                                                                                                                                                                                                              | 41.23             | 40.00                 | 9.85            | 41.95              | 49.13          | 54.00               | -4.87           | Vertical     |
| 10380.00                                                                                                                                                                                                              | 40.89             | 40.00                 | 9.85            | 41.95              | 48.79          | 54.00               | -5.21           | Horizontal   |
| Test channel: Highest channel                                                                                                                                                                                         |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10460.00                                                                                                                                                                                                              | 48.97             | 39.80                 | 9.92            | 41.90              | 56.79          | 68.20               | -11.41          | Vertical     |
| 10460.00                                                                                                                                                                                                              | 48.56             | 39.80                 | 9.92            | 41.90              | 56.38          | 68.20               | -11.82          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                               |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10460.00                                                                                                                                                                                                              | 40.13             | 39.80                 | 9.92            | 41.90              | 47.95          | 54.00               | -6.05           | Vertical     |
| 10460.00                                                                                                                                                                                                              | 40.06             | 39.80                 | 9.92            | 41.90              | 47.88          | 54.00               | -6.12           | Horizontal   |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                    |                |                     |                 |              |

| Band 1 – 802.11ac(HT20)                                                                                |                   |                       |                 |                    |                |                     |                 |              |
|--------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                               | 48.89             | 40.10                 | 9.82            | 41.97              | 56.84          | 68.20               | -11.36          | Vertical     |
| 10360.00                                                                                               | 48.32             | 40.10                 | 9.82            | 41.97              | 56.27          | 68.20               | -11.93          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                               | 40.89             | 40.10                 | 9.82            | 41.97              | 48.84          | 54.00               | -5.16           | Vertical     |
| 10360.00                                                                                               | 40.34             | 40.10                 | 9.82            | 41.97              | 48.29          | 54.00               | -5.71           | Horizontal   |
| Test channel: Middle channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                               | 49.27             | 40.00                 | 9.85            | 41.95              | 57.17          | 68.20               | -11.03          | Vertical     |
| 10400.00                                                                                               | 48.86             | 40.00                 | 9.85            | 41.95              | 56.76          | 68.20               | -11.44          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                               | 41.35             | 40.00                 | 9.85            | 41.95              | 49.25          | 54.00               | -4.75           | Vertical     |
| 10400.00                                                                                               | 40.98             | 40.00                 | 9.85            | 41.95              | 48.88          | 54.00               | -5.12           | Horizontal   |
| Test channel: Highest channel                                                                          |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                               | 49.83             | 39.70                 | 9.96            | 41.88              | 57.61          | 68.20               | -10.59          | Vertical     |
| 10480.00                                                                                               | 48.67             | 39.70                 | 9.96            | 41.88              | 56.45          | 68.20               | -11.75          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                               | 41.28             | 39.70                 | 9.96            | 41.88              | 49.06          | 54.00               | -4.94           | Vertical     |
| 10480.00                                                                                               | 40.57             | 39.70                 | 9.96            | 41.88              | 48.35          | 54.00               | -5.65           | Horizontal   |
| Remark:                                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.              |                   |                       |                 |                    |                |                     |                 |              |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                    |                |                     |                 |              |

| Band 1 – 802.11ac(HT40)                                                                                                                                                                                        |                   |                       |                 |                    |                |                     |                 |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10380.00                                                                                                                                                                                                       | 49.87             | 40.00                 | 9.85            | 41.95              | 57.77          | 68.20               | -10.43          | Vertical     |
| 10380.00                                                                                                                                                                                                       | 49.03             | 40.00                 | 9.85            | 41.95              | 56.93          | 68.20               | -11.27          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                        |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10380.00                                                                                                                                                                                                       | 41.53             | 40.00                 | 9.85            | 41.95              | 49.43          | 54.00               | -4.57           | Vertical     |
| 10380.00                                                                                                                                                                                                       | 40.89             | 40.00                 | 9.85            | 41.95              | 48.79          | 54.00               | -5.21           | Horizontal   |
| Test channel: Highest channel                                                                                                                                                                                  |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10460.00                                                                                                                                                                                                       | 49.53             | 39.80                 | 9.92            | 41.90              | 57.35          | 68.20               | -10.85          | Vertical     |
| 10460.00                                                                                                                                                                                                       | 48.89             | 39.80                 | 9.92            | 41.90              | 56.71          | 68.20               | -11.49          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                        |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10460.00                                                                                                                                                                                                       | 40.98             | 39.80                 | 9.92            | 41.90              | 48.80          | 54.00               | -5.20           | Vertical     |
| 10460.00                                                                                                                                                                                                       | 38.89             | 39.80                 | 9.92            | 41.90              | 46.71          | 54.00               | -7.29           | Horizontal   |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                    |                |                     |                 |              |

| Band 1 – 802.11ac(HT80)                                                                                                                                                                                        |                   |                       |                 |                          |                |                     |                 |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Middle channel                                                                                                                                                                                   |                   |                       |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                           |                   |                       |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10420.00                                                                                                                                                                                                       | 48.23             | 40.10                 | 9.82            | 41.97                    | 56.18          | 68.20               | -12.02          | Vertical     |
| 10420.00                                                                                                                                                                                                       | 47.98             | 40.10                 | 9.82            | 41.97                    | 55.93          | 68.20               | -12.27          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                        |                   |                       |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10420.00                                                                                                                                                                                                       | 39.85             | 40.10                 | 9.82            | 41.97                    | 47.80          | 54.00               | -6.20           | Vertical     |
| 10420.00                                                                                                                                                                                                       | 38.89             | 40.10                 | 9.82            | 41.97                    | 46.84          | 54.00               | -7.16           | Horizontal   |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                          |                |                     |                 |              |

## Band 4:

| Band 4 – 802.11a                                                                                       |                   |                       |                 |                    |                |                     |                 |              |
|--------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                               | 50.26             | 41.50                 | 10.81           | 42.29              | 60.28          | 74.00               | -13.72          | Vertical     |
| 11490.00                                                                                               | 49.86             | 41.50                 | 10.81           | 42.29              | 59.88          | 74.00               | -14.12          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                               | 42.31             | 41.50                 | 10.81           | 42.29              | 52.33          | 54.00               | -1.67           | Vertical     |
| 11490.00                                                                                               | 41.89             | 41.50                 | 10.81           | 42.29              | 51.91          | 54.00               | -2.09           | Horizontal   |
| Test channel: Middle channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                               | 49.98             | 41.38                 | 10.78           | 42.27              | 59.87          | 74.00               | -14.13          | Vertical     |
| 11570.00                                                                                               | 48.87             | 41.38                 | 10.78           | 42.27              | 58.76          | 74.00               | -15.24          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                               | 41.26             | 41.38                 | 10.78           | 42.27              | 51.15          | 54.00               | -2.85           | Vertical     |
| 11570.00                                                                                               | 40.37             | 41.38                 | 10.78           | 42.27              | 50.26          | 54.00               | -3.74           | Horizontal   |
| Test channel: Highest channel                                                                          |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                               | 50.26             | 41.26                 | 10.76           | 42.26              | 60.02          | 74.00               | -13.98          | Vertical     |
| 11650.00                                                                                               | 49.37             | 41.26                 | 10.76           | 42.26              | 59.13          | 74.00               | -14.87          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                               | 40.86             | 41.26                 | 10.76           | 42.26              | 50.62          | 54.00               | -3.38           | Vertical     |
| 11650.00                                                                                               | 39.67             | 41.26                 | 10.76           | 42.26              | 49.43          | 54.00               | -4.57           | Horizontal   |
| Remark:                                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.              |                   |                       |                 |                    |                |                     |                 |              |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                    |                |                     |                 |              |

| Band 4 – 802.11n(HT20)                                                                                 |                   |                       |                 |                    |                |                     |                 |              |
|--------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                               | 51.67             | 41.50                 | 10.81           | 42.29              | 61.69          | 74.00               | -12.31          | Vertical     |
| 11490.00                                                                                               | 50.46             | 41.50                 | 10.81           | 42.29              | 60.48          | 74.00               | -13.52          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                               | 42.37             | 41.50                 | 10.81           | 42.29              | 52.39          | 54.00               | -1.61           | Vertical     |
| 11490.00                                                                                               | 41.53             | 41.50                 | 10.81           | 42.29              | 51.55          | 54.00               | -2.45           | Horizontal   |
| Test channel: Middle channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                               | 51.70             | 41.38                 | 10.78           | 42.27              | 61.59          | 74.00               | -12.41          | Vertical     |
| 11570.00                                                                                               | 50.89             | 41.38                 | 10.78           | 42.27              | 60.78          | 74.00               | -13.22          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                               | 40.37             | 41.38                 | 10.78           | 42.27              | 50.26          | 54.00               | -3.74           | Vertical     |
| 11570.00                                                                                               | 39.97             | 41.38                 | 10.78           | 42.27              | 49.86          | 54.00               | -4.14           | Horizontal   |
| Test channel: Highest channel                                                                          |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                               | 51.47             | 41.26                 | 10.76           | 42.26              | 61.23          | 74.00               | -12.77          | Vertical     |
| 11650.00                                                                                               | 50.89             | 41.26                 | 10.76           | 42.26              | 60.65          | 74.00               | -13.35          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                               | 40.31             | 41.26                 | 10.76           | 42.26              | 50.07          | 54.00               | -3.93           | Vertical     |
| 11650.00                                                                                               | 39.86             | 41.26                 | 10.76           | 42.26              | 49.62          | 54.00               | -4.38           | Horizontal   |
| Remark:                                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.              |                   |                       |                 |                    |                |                     |                 |              |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                    |                |                     |                 |              |

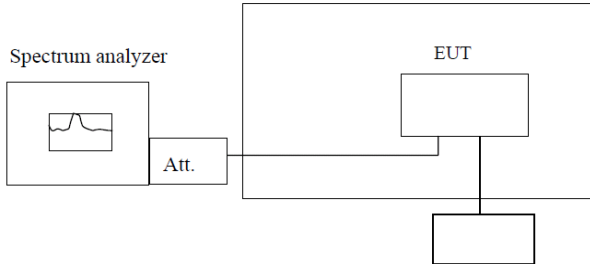
| Band 4 – 802.11n(HT40)                                                                                                                                                                                                              |                   |                       |                 |                    |                |                     |                 |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                                        |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                     | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11510.00                                                                                                                                                                                                                            | 50.89             | 41.50                 | 10.81           | 42.29              | 60.91          | 74.00               | -13.09          | Vertical     |
| 11510.00                                                                                                                                                                                                                            | 49.68             | 41.50                 | 10.81           | 42.29              | 59.70          | 74.00               | -14.30          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                                             |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                     | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11510.00                                                                                                                                                                                                                            | 40.29             | 41.50                 | 10.81           | 42.29              | 50.31          | 54.00               | -3.69           | Vertical     |
| 11510.00                                                                                                                                                                                                                            | 39.67             | 41.50                 | 10.81           | 42.29              | 49.69          | 54.00               | -4.31           | Horizontal   |
| Test channel: Highest channel                                                                                                                                                                                                       |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                     | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11590.00                                                                                                                                                                                                                            | 50.23             | 41.32                 | 10.77           | 42.27              | 60.05          | 74.00               | -13.95          | Vertical     |
| 11590.00                                                                                                                                                                                                                            | 49.67             | 41.32                 | 10.77           | 42.27              | 59.49          | 74.00               | -14.51          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                                             |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                     | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11590.00                                                                                                                                                                                                                            | 40.35             | 41.32                 | 10.77           | 42.27              | 50.17          | 54.00               | -3.83           | Vertical     |
| 11590.00                                                                                                                                                                                                                            | 39.89             | 41.32                 | 10.77           | 42.27              | 49.71          | 54.00               | -4.29           | Horizontal   |
| <b>Remark:</b><br>1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i><br>2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i> |                   |                       |                 |                    |                |                     |                 |              |

| Band 4 – 802.11ac(HT20)                                                                                |                   |                       |                 |                    |                |                     |                 |              |
|--------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                               | 51.19             | 41.50                 | 10.81           | 42.29              | 61.21          | 74.00               | -12.79          | Vertical     |
| 11490.00                                                                                               | 50.43             | 41.50                 | 10.81           | 42.29              | 60.45          | 74.00               | -13.55          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                               | 41.53             | 41.50                 | 10.81           | 42.29              | 51.55          | 54.00               | -2.45           | Vertical     |
| 11490.00                                                                                               | 40.37             | 41.50                 | 10.81           | 42.29              | 50.39          | 54.00               | -3.61           | Horizontal   |
| Test channel: Middle channel                                                                           |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                               | 51.76             | 41.38                 | 10.78           | 42.27              | 61.65          | 74.00               | -12.35          | Vertical     |
| 11570.00                                                                                               | 50.37             | 41.38                 | 10.78           | 42.27              | 60.26          | 74.00               | -13.74          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                               | 41.26             | 41.38                 | 10.78           | 42.27              | 51.15          | 54.00               | -2.85           | Vertical     |
| 11570.00                                                                                               | 40.67             | 41.38                 | 10.78           | 42.27              | 50.56          | 54.00               | -3.44           | Horizontal   |
| Test channel: Highest channel                                                                          |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                               | 51.64             | 41.26                 | 10.76           | 42.26              | 61.40          | 74.00               | -12.60          | Vertical     |
| 11650.00                                                                                               | 50.86             | 41.26                 | 10.76           | 42.26              | 60.62          | 74.00               | -13.38          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                               | 40.89             | 41.26                 | 10.76           | 42.26              | 50.65          | 54.00               | -3.35           | Vertical     |
| 11650.00                                                                                               | 40.37             | 41.26                 | 10.76           | 42.26              | 50.13          | 54.00               | -3.87           | Horizontal   |
| Remark:                                                                                                |                   |                       |                 |                    |                |                     |                 |              |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.              |                   |                       |                 |                    |                |                     |                 |              |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                    |                |                     |                 |              |

| Band 4 – 802.11ac(HT40)                                                                                                                                                                                               |                   |                       |                 |                    |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                          |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 11510.00                                                                                                                                                                                                              | 51.43             | 41.50                 | 10.81           | 42.29              | 61.45          | 74.00               | -12.55          | Vertical     |
| 11510.00                                                                                                                                                                                                              | 50.67             | 41.50                 | 10.81           | 42.29              | 60.69          | 74.00               | -13.31          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                               |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 11510.00                                                                                                                                                                                                              | 41.29             | 41.50                 | 10.81           | 42.29              | 51.31          | 54.00               | -2.69           | Vertical     |
| 11510.00                                                                                                                                                                                                              | 40.67             | 41.50                 | 10.81           | 42.29              | 50.69          | 54.00               | -3.31           | Horizontal   |
| Test channel: Highest channel                                                                                                                                                                                         |                   |                       |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 11590.00                                                                                                                                                                                                              | 50.89             | 41.32                 | 10.77           | 42.27              | 60.71          | 74.00               | -13.29          | Vertical     |
| 11590.00                                                                                                                                                                                                              | 50.34             | 41.32                 | 10.77           | 42.27              | 60.16          | 74.00               | -13.84          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                               |                   |                       |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 11590.00                                                                                                                                                                                                              | 40.26             | 41.32                 | 10.77           | 42.27              | 50.08          | 54.00               | -3.92           | Vertical     |
| 11590.00                                                                                                                                                                                                              | 39.67             | 41.32                 | 10.77           | 42.27              | 49.49          | 54.00               | -4.51           | Horizontal   |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                    |                |                     |                 |              |

| Band 4 – 802.11ac(HT80)                                                                                                                                                                                               |                   |                       |                 |                          |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Middle channel                                                                                                                                                                                          |                   |                       |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                  |                   |                       |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11550.00                                                                                                                                                                                                              | 51.49             | 41.50                 | 10.81           | 42.29                    | 61.51          | 74.00               | -12.49          | Vertical     |
| 11550.00                                                                                                                                                                                                              | 51.62             | 41.50                 | 10.81           | 42.29                    | 61.64          | 74.00               | -12.36          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                               |                   |                       |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                       | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 11550.00                                                                                                                                                                                                              | 38.51             | 41.50                 | 10.81           | 42.29                    | 48.53          | 54.00               | -5.47           | Vertical     |
| 11550.00                                                                                                                                                                                                              | 38.46             | 41.50                 | 10.81           | 42.29                    | 48.48          | 54.00               | -5.52           | Horizontal   |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                          |                |                     |                 |              |

## 6.8 Frequency stability

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 (g)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Limit:            | 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.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test setup:       | <p style="text-align: center;">Temperature Chamber</p>  <p style="text-align: center;">Variable Power Supply</p> <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                                                                                                            |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. The EUT is installed in an environment test chamber with external power source.</li> <li>2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.</li> <li>3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.</li> <li>4. When temperature is stabled, measure the frequency stability.</li> <li>5. 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.</li> </ol> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Measurement Data (the worst channel):

## Band 1:

## Voltage vs. Frequency Stability (Lowest channel=5180MHz)

| Test conditions |             | Frequency(MHz) | Max. Deviation (ppm) |
|-----------------|-------------|----------------|----------------------|
| Temp(℃)         | Voltage(dc) |                |                      |
| 20              | 4.20        | 5179.995864    | 0.80                 |
|                 | 3.70        | 5179.974649    | 4.89                 |
|                 | 3.50        | 5179.965851    | 6.59                 |

## Temperature vs. Frequency Stability (Lowest channel=5180MHz)

| Test conditions |         | Frequency(MHz) | Max. Deviation (ppm) |
|-----------------|---------|----------------|----------------------|
| Voltage(dc)     | Temp(℃) |                |                      |
| 3.70            | -20     | 5179.986433    | 2.62                 |
|                 | -10     | 5179.996577    | 0.66                 |
|                 | 0       | 5179.964861    | 6.78                 |
|                 | 10      | 5179.987543    | 2.40                 |
|                 | 20      | 5179.996567    | 0.66                 |
|                 | 30      | 5179.97735     | 4.37                 |
|                 | 40      | 5179.963862    | 6.98                 |
|                 | 50      | 5179.974765    | 4.87                 |

## Band 4:

## Voltage vs. Frequency Stability (Lowest channel=5745MHz)

| Test conditions |             | Frequency(MHz) | Max. Deviation (ppm) |
|-----------------|-------------|----------------|----------------------|
| Temp(℃)         | Voltage(dc) |                |                      |
| 20              | 4.20        | 5744.975786    | 4.21                 |
|                 | 3.70        | 5744.994323    | 0.99                 |
|                 | 3.50        | 5744.998647    | 0.24                 |

## Temperature vs. Frequency Stability (Lowest channel=5745MHz)

| Test conditions |         | Frequency(MHz) | Max. Deviation (ppm) |
|-----------------|---------|----------------|----------------------|
| Voltage(dc)     | Temp(℃) |                |                      |
| 3.70            | -20     | 5744.994651    | 0.93                 |
|                 | -10     | 5744.993437    | 1.14                 |
|                 | 0       | 5744.998642    | 0.24                 |
|                 | 10      | 5744.987463    | 2.18                 |
|                 | 20      | 5744.996421    | 0.62                 |
|                 | 30      | 5744.998642    | 0.24                 |
|                 | 40      | 5744.998946    | 0.18                 |
|                 | 50      | 5744.993245    | 1.18                 |