

# FCC TEST REPORT

## (Part 15, Subpart E)

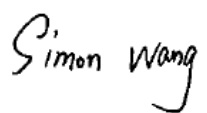
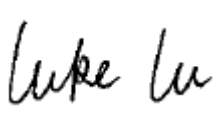
|            |                                                                            |
|------------|----------------------------------------------------------------------------|
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|                           |                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
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| Product:                  | Smart Mobile Payment Terminal                                                                               |
| Brand Name:               | PAX                                                                                                         |
| Model Name:               | A960                                                                                                        |
| FCC ID:                   | V5PA960                                                                                                     |
| Date of tests:            | Nov. 30, 2022 ~ Dec. 12, 2022                                                                               |

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart E, Section 15.407**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

|                                                                                                            |                                                                                                              |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
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| <br>Date: Dec. 12, 2022 | <br>Date: Dec. 12, 2022 |

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## RELEASE CONTROL RECORD

| ISSUE NO.         | REASON FOR CHANGE | DATE ISSUED   |
|-------------------|-------------------|---------------|
| W7L-P22110037RF03 | Original release  | Dec. 12, 2022 |

# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART E |                                           |            |
|------------------------------------------|-------------------------------------------|------------|
| STANDARD SECTION                         | TEST TYPE AND LIMIT                       | RESULT     |
| 15.407(b)(6)                             | AC Power Conducted Emission               | Compliance |
| 15.407(b)<br>(1/2/3/4/5)                 | Radiated Emission & Band Edge Measurement | Compliance |
| 15.407(a/1/2/3)                          | Maximum conducted output Power            | Compliance |
| 15.407(a/1/2/3)                          | Peak Power Spectral Density               | Compliance |
| 15.403(i)                                | 26 dB Bandwidth                           | Compliance |
| 15.407(e)                                | 6 dB Bandwidth                            | Compliance |
| 15.203                                   | Antenna Requirement                       | Compliance |

**NOTE:**

1. Except the data of RSE and Band Edge Measurement, other data of 802.11a & 802.11n/ac (20/40) & 802.11ac 80 please refer to the appendix.
2. Only the worse data were reported.

## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT                         | UNCERTAINTY |
|-------------------------------------|-------------|
| AC Power Conducted emissions        | ±2.70dB     |
| Radiated emissions (9KHz~30MHz)     | ±2.68dB     |
| Radiated emissions (30MHz~1GMHz)    | ±4.98dB     |
| Radiated emissions (1GMHz ~6GMHz)   | ±4.70dB     |
| Radiated emissions (6GMHz ~18GMHz)  | ±4.60dB     |
| Radiated emissions (18GMHz ~40GMHz) | ±4.12dB     |
| Conducted emissions                 | ±4.01dB     |
| Occupied Channel Bandwidth          | ±43.58KHz   |
| Conducted Output power              | ±2.06dB     |
| Power Spectral Density              | ±0.85 dB    |

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



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT</b>             | Smart Mobile Payment Terminal                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>BRAND NAME</b>          | PAX                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MODEL NAME</b>          | A960                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>NOMINAL VOLTAGE</b>     | 5.0Vdc(adapter or host equipment)<br>3.7Vdc (Li-ion, battery)                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MODULATION</b>          | OFDM                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>TRANSFER RATE</b>       | 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps<br>802.11n: up to 150.0Mbps<br>802.11ac: up to 433.3Mbps                                                                                                                                                                                                                                                                                                                                         |
| <b>OPERATING FREQUENCY</b> | 5180 ~ 5240MHz, 5260 ~ 5320MHz,<br>5500 ~ 5720MHz, 5745 ~ 5825MHz                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>NUMBER OF CHANNEL</b>   | 5180 ~ 5240MHz:<br>4 for 802.11a, 802.11n/ac (20MHz)<br>2 for 802.11n/ac (40MHz)<br>1 for 802. 802.11ac(80MHz)<br>5260 ~ 5320MHz:<br>4 for 802.11a, 802.11n/ac (20MHz)<br>2 for 802.11n/ac (40MHz)<br>1 for 802.11ac (80MHz)<br>5500 ~ 5720MHz:<br>12 for 802.11a, 802.11n/ac (20MHz)/<br>6 for 802.11n/ac (40MHz)<br>3 for 802.11ac (80MHz)<br>5745 ~ 5825MHz:<br>5 for 802.11a, 802.11n/ac (20MHz)<br>2 for 802.11n/ac (40MHz)<br>1 for 802.11ac (80MHz) |
| <b>AVERAGE POWER</b>       | 27.80mW for 5180 ~ 5240MHz<br>26.24mW for 5260 ~ 5320MHz<br>26.67mW for 5500 ~ 5720MHz<br>27.42mW for 5745 ~ 5825MHz                                                                                                                                                                                                                                                                                                                                       |
| <b>ANTENNA TYPE</b>        | Monopole Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ANTENNA GAIN</b>        | 1.7dBi for 5180 ~ 5240MHz<br>1.7dBi for 5260 ~ 5320MHz<br>1.93dBi for 5500 ~ 5720MHz<br>1.98dBi for 5745 ~ 5825MHz                                                                                                                                                                                                                                                                                                                                         |
| <b>HW VERSION</b>          | A960                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>SW VERSION</b>          | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>I/O PORTS</b>           | Refer to user's manual                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**CABLE SUPPLIED**

USB cable: non-shielded cable, with w/o ferrite core, 1.0 meter

**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

| MODULATION MODE          | TX FUNCTION |
|--------------------------|-------------|
| 802.11a                  | 1TX /1RX    |
| 802.11n/802.11ac (20MHz) | 1TX /1RX    |
| 802.11n/802.11ac (40MHz) | 1TX /1RX    |
| 802.11ac (80MHz)         | 1TX /1RX    |

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

**List of Accessory:**

| ACCESSORIES | BRAND | MANUFACTURER                                        | MODEL        | SPECIFICATION                             |
|-------------|-------|-----------------------------------------------------|--------------|-------------------------------------------|
| Battery     | VEKEN | N/A                                                 | YW-029       | Capacity: 3.7Vdc, 5150mAh                 |
| AC Adapter  | PAX   | Shenzhen Sorghum red Electronics Technology Co.,Ltd | GLH50D2000HW | I/P: 100-240Vac, 0.4A,<br>O/P: 5.0Vdc, 2A |
| USB Cable   | N/A   | N/A                                                 | N/A          | Signal Line,1.0meter                      |

## 2.2 DESCRIPTION OF TEST MODES

### FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 44      | 5220 MHz  |
| 40      | 5200 MHz  | 48      | 5240 MHz  |

2 channels are provided for 802.11n, 802.11ac (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 38      | 5190 MHz  | 46      | 5230 MHz  |

1 channel is provided for 802.11ac (80MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 42      | 5210 MHz  |         |           |

### FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 52      | 5260 MHz  | 60      | 5300 MHz  |
| 56      | 5280 MHz  | 64      | 5320 MHz  |

2 channels are provided for 802.11n, 802.11ac (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 54      | 5270 MHz  | 62      | 5310 MHz  |

1 channel is provided for 802.11ac (80MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 58      | 5290 MHz  |         |           |

**FOR 5500 ~ 5720MHz**

12 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 124     | 5620MHz   |
| 104     | 5520 MHz  | 128     | 5640MHz   |
| 108     | 5540 MHz  | 132     | 5660 MHz  |
| 112     | 5560 MHz  | 136     | 5680 MHz  |
| 116     | 5580 MHz  | 140     | 5700 MHz  |
| 120     | 5600 MHz  | 144     | 5720 MHz  |

6 channels are provided for 802.11n, 802.11ac (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 126     | 5630MHz   |
| 110     | 5550 MHz  | 134     | 5670 MHz  |
| 118     | 5590 MHz  | 142     | 5710 MHz  |

3 channel is provided for 802.11ac (80MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 106     | 5530 MHz  | 138     | 5690 MHz  |
| 122     | 5610 MHz  |         |           |

## FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 149     | 5745 MHz  | 161     | 5805 MHz  |
| 153     | 5765 MHz  | 165     | 5825 MHz  |
| 157     | 5785 MHz  |         |           |

2 channels are provided for 802.11n, 802.11ac (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 151     | 5755 MHz  | 159     | 5795 MHz  |

1 channel is provided for 802.11ac (80MHz):

| CHANNEL | FREQUENCY |
|---------|-----------|
| 155     | 5775 MHz  |

## 2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT<br>CONFIGURE<br>MODE | APPLICABLE TO |       |     |      | DESCRIPTION                           |
|--------------------------|---------------|-------|-----|------|---------------------------------------|
|                          | RE $\geq$ 1G  | RE<1G | PLC | APCM |                                       |
| A                        | √             | √     | √   | -    | Powered by Adapter with wifi(5G) link |
| B                        | -             | -     | -   | √    | Powered by Battery with wifi(5G) link |
| C                        | -             | -     | -   | -    | Powered by USB with wifi(5G) link     |

Where

**RE $\geq$ 1G:** Radiated Emission above 1GHz

**RE<1G:** Radiated Emission below 1GHz

**PLC:** Power Line Conducted Emission

**APCM:** Antenna Port Conducted Measurement

**NOTE:**

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

**NOTE:** “-” means no effect.

### RADIATED EMISSION TEST (BELOW 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT<br>CONFIGURE<br>MODE | MODE             | FREQ.<br>BAND<br>(MHz) | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION | DATA RATE<br>(Mbps) |
|--------------------------|------------------|------------------------|----------------------|-------------------|------------|---------------------|
| A                        | 802.11ac (20MHz) | 5745-5825              | 149 to 165           | 165               | OFDM       | MCS0                |

**RADIATED EMISSION TEST (ABOVE 1GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT<br>CONFIGURE<br>MODE | MODE                | FREQ. BAND<br>(MHz) | AVAILABLE<br>CHANNEL | TESTED CHANNEL     | MODULATION | DATA RATE<br>(Mbps) |
|--------------------------|---------------------|---------------------|----------------------|--------------------|------------|---------------------|
| A                        | 802.11a             | 5180-5240           | 36 to 48             | 36, 48             | OFDM       | 6.0                 |
| A                        | 802.11an/ac (20MHz) |                     | 36 to 48             | 36, 48             | OFDM       | MCS0                |
| A                        | 802.11an/ac (40MHz) |                     | 38 to 46             | 38, 46             | OFDM       | MCS0                |
| A                        | 802.11ac (80MHz)    |                     | 42                   | 42                 | OFDM       | MCS0                |
| A                        | 802.11a             | 5260-5320           | 52 to 64             | 52, 60, 64         | OFDM       | 6.0                 |
| A                        | 802.11an/ac (20MHz) |                     | 52 to 64             | 52, 60, 64         | OFDM       | MCS0                |
| A                        | 802.11an/ac (40MHz) |                     | 54 to 62             | 54, 62             | OFDM       | MCS0                |
| A                        | 802.11ac (80MHz)    |                     | 58                   | 58                 | OFDM       | MCS0                |
| A                        | 802.11a             | 5500-5720           | 100 to 144           | 100, 116, 140, 144 | OFDM       | 6.0                 |
| A                        | 802.11an/ac (20MHz) |                     | 100 to 144           | 100, 116, 140, 144 | OFDM       | MCS0                |
| A                        | 802.11an/ac (40MHz) |                     | 102 to 142           | 102, 110, 134, 142 | OFDM       | MCS0                |
| A                        | 802.11ac (80MHz)    |                     | 106 to 138           | 106, 138           | OFDM       | MCS0                |
| A                        | 802.11a             | 5745-5825           | 144 to 165           | 144,149, 157,165   | OFDM       | 6.0                 |
| A                        | 802.11an/ac (20MHz) |                     | 149 to 165           | 144,149, 157,165   | OFDM       | MCS0                |
| A                        | 802.11an/ac (40MHz) |                     | 142 to 159           | 142,151, 159       | OFDM       | MCS0                |
| A                        | 802.11ac (80MHz)    |                     | 138 to 155           | 138,155            | OFDM       | MCS0                |

**POWER LINE CONDUCTED EMISSION TEST:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT<br>CONFIGURE<br>MODE | MODE             | FREQ.<br>BAND<br>(MHz) | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION | DATA RATE<br>(Mbps) |
|--------------------------|------------------|------------------------|----------------------|-------------------|------------|---------------------|
| A                        | 802.11ac (20MHz) | 5745-5825              | 149 to 165           | 165               | OFDM       | MCS0                |



**BANDEDGE MEASUREMENT:**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT<br>CONFIGURE<br>MODE | MODE                | FREQ. BAND<br>(MHz) | AVAILABLE<br>CHANNEL | TESTED CHANNEL     | MODULATION | DATA RATE (Mbps) |
|--------------------------|---------------------|---------------------|----------------------|--------------------|------------|------------------|
| A                        | 802.11a             | 5180-5240           | 36 to 48             | 36, 48             | OFDM       | 6.0              |
| A                        | 802.11an/ac (20MHz) |                     | 36 to 48             | 36, 48             | OFDM       | MCS0             |
| A                        | 802.11an/ac (40MHz) |                     | 38 to 46             | 38, 46             | OFDM       | MCS0             |
| A                        | 802.11ac (80MHz)    |                     | 42                   | 42                 | OFDM       | MCS0             |
| A                        | 802.11a             | 5260-5320           | 52 to 64             | 52, 60, 64         | OFDM       | 6.0              |
| A                        | 802.11an/ac (20MHz) |                     | 52 to 64             | 52, 60, 64         | OFDM       | MCS0             |
| A                        | 802.11an/ac (40MHz) |                     | 54 to 62             | 54, 62             | OFDM       | MCS0             |
| A                        | 802.11ac (80MHz)    |                     | 58                   | 58                 | OFDM       | MCS0             |
| A                        | 802.11a             | 5500-5720           | 100 to 144           | 100, 116, 140, 144 | OFDM       | 6.0              |
| A                        | 802.11an/ac (20MHz) |                     | 100 to 144           | 100, 116, 140, 144 | OFDM       | MCS0             |
| A                        | 802.11an/ac (40MHz) |                     | 102 to 142           | 102, 110, 134, 142 | OFDM       | MCS0             |
| A                        | 802.11ac(80MHz))    |                     | 106 to 138           | 106, 138           | OFDM       | MCS0             |
| A                        | 802.11a             | 5745-5825           | 144 to 165           | 144, 149, 157,165  | OFDM       | 6.0              |
| A                        | 802.11an/ac (20MHz) |                     | 144 to 165           | 144, 149, 157,165  | OFDM       | MCS0             |
| A                        | 802.11an/ac (40MHz) |                     | 142 to 159           | 142, 151, 159      | OFDM       | MCS0             |
| A                        | 802.11ac (80MHz)    |                     | 138,155              | 138, 155           | OFDM       | MCS0             |

**ANTENNA PORT CONDUCTED MEASUREMENT:**

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT<br>CONFIGURE<br>MODE | MODE                | FREQ. BAND<br>(MHz) | AVAILABLE<br>CHANNEL | TESTED CHANNEL     | MODULATIO<br>N | DATA RATE (Mbps) |
|--------------------------|---------------------|---------------------|----------------------|--------------------|----------------|------------------|
| A                        | 802.11a             | 5180-5240           | 36 to 48             | 36, 48             | OFDM           | 6.0              |
| A                        | 802.11an/ac (20MHz) |                     | 36 to 48             | 36, 48             | OFDM           | MCS0             |
| A                        | 802.11an/ac (40MHz) |                     | 38 to 46             | 38, 46             | OFDM           | MCS0             |
| A                        | 802.11ac (80MHz)    |                     | 42                   | 42                 | OFDM           | MCS0             |
| A                        | 802.11a             | 5260-5320           | 52 to 64             | 52, 60, 64         | OFDM           | 6.0              |
| A                        | 802.11an/ac (20MHz) |                     | 52 to 64             | 52, 60, 64         | OFDM           | MCS0             |
| A                        | 802.11an/ac (40MHz) |                     | 54 to 62             | 54, 62             | OFDM           | MCS0             |
| A                        | 802.11ac (80MHz)    |                     | 58                   | 58                 | OFDM           | MCS0             |
| A                        | 802.11a             | 5500-5720           | 100 to 144           | 100, 116, 140, 144 | OFDM           | 6.0              |
| A                        | 802.11an/ac (20MHz) |                     | 100 to 144           | 100, 116, 140, 144 | OFDM           | MCS0             |
| A                        | 802.11an/ac (40MHz) |                     | 102 to 142           | 102, 110, 134, 142 | OFDM           | MCS0             |
| A                        | 802.11ac (80MHz)    |                     | 106 to 138           | 106, 138           | OFDM           | MCS0             |
| A                        | 802.11a             | 5745-5825           | 144 to 165           | 144, 149, 157, 165 | OFDM           | 6.0              |
| A                        | 802.11an/ac (20MHz) |                     | 144 to 165           | 144, 149, 157, 165 | OFDM           | MCS0             |
| A                        | 802.11an/ac (40MHz) |                     | 142 to 159           | 142, 151, 159      | OFDM           | MCS0             |
| A                        | 802.11ac (80MHz)    |                     | 138, 155             | 138, 155           | OFDM           | MCS0             |

**TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER        | TESTED BY |
|---------------|--------------------------|--------------------|-----------|
| RE<1G         | 23deg. C, 56%RH          | DC 5V By Adapter   | Jace Hu   |
| RE≥1G         | 23deg. C, 56%RH          | DC 5V By Adapter   | Jace Hu   |
| PLC           | 25deg. C, 52%RH          | DC 5V By Adapter   | James Fu  |
| APCM          | 25deg. C, 60%RH          | DC 3.7V By Battery | James Fu  |

## 2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix A Of this test report.

### WORST-CASE DATA:

| Measured Duty Cycle |        |                |
|---------------------|--------|----------------|
| Mode                |        | Duty Cycle [%] |
|                     |        | ANT1           |
| 5GHZ                | 11a    | 98.57          |
|                     | 11n20  | 98.47          |
|                     | 11n40  | 96.94          |
|                     | 11ac20 | 98.48          |
|                     | 11ac40 | 96.97          |
|                     | 11ac80 | 94.00          |

Note:

Duty cycle of test signal is < 98%, duty factor shall be considered.

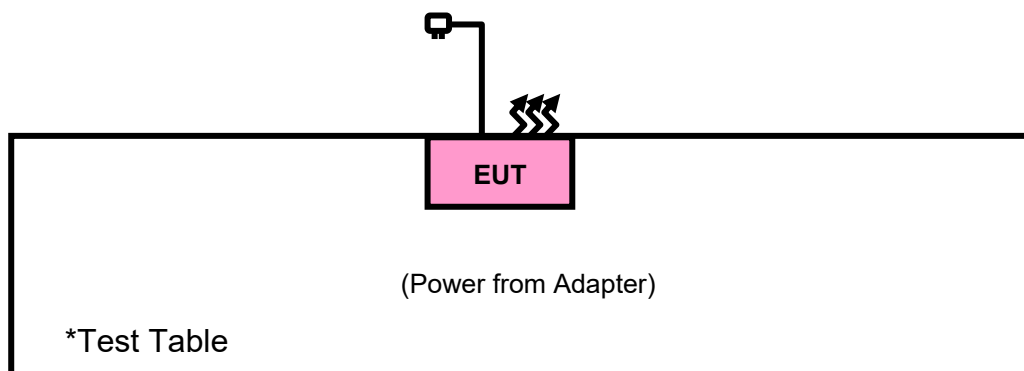
## 2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT   | BRAND      | MODEL NO.     | SERIAL NO. | FCC ID |
|-----|-----------|------------|---------------|------------|--------|
| 1   | Desktop   | Lenovo     | M73 SFF       | PC04GRQV   | N/A    |
| 2   | Desktop   | Lenovo     | M73 SFF       | PC06CS27   | N/A    |
| 3   | Laptop    | Lenovo     | Thnikpad L440 | R90FTFKN   | N/A    |
| 4   | DC source | Kikusui/JP | PMX18-5A      | 0000001    | N/A    |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|-----------------------------------------------------|
| 1   | AC Line: Unshielded, Detachable 1.5m                |
| 2   | AC Line: Unshielded, Detachable 1.5m                |
| 3   | AC Line: Unshielded, Detachable 1.5m                |
| 4   | DC Line: Unshielded, Detachable 1.0m                |

## 2.4.1 CONFIGURATION OF SYSTEM UNDER TEST



## 2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart E (15.407)**

**KDB 789033 D02 General U-NII Test Procedures New Rules v02r01**

**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards.

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

### 3 TEST TYPES AND RESULTS

#### 3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

##### 3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| FREQUENCIES<br>(MHz) | FIELD STRENGTH<br>(microvolts/meter) | MEASUREMENT DISTANCE<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009 ~ 0.490        | 2400/F(kHz)                          | 300                              |
| 0.490 ~ 1.705        | 24000/F(kHz)                         | 30                               |
| 1.705 ~ 30.0         | 30                                   | 30                               |
| 30 ~ 88              | 100                                  | 3                                |
| 88 ~ 216             | 150                                  | 3                                |
| 216 ~ 960            | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

##### 3.1.2 LIMITS OF UNWANTED EMISSION

| RESTRICTED BANDS            | APPLICABLE TO                                                  | LIMIT                         |                                          |
|-----------------------------|----------------------------------------------------------------|-------------------------------|------------------------------------------|
|                             | 789033 D02 General<br>UNII Test Procedures<br>New Rules v02r01 | FIELD STRENGTH AT 3m (dBµV/m) |                                          |
|                             |                                                                | PK : 74                       | AV : 54                                  |
| OUT OF THE RESTRICTED BANDS | APPLICABLE TO                                                  | EIRP LIMIT (dBm/MHz)          | EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m) |
|                             | 15.407(b)(1)                                                   | PK : -27                      | PK : 68.2                                |
|                             | 15.407(b)(2)                                                   |                               |                                          |
|                             | 15.407(b)(3)                                                   |                               |                                          |
|                             | 15.407(b)(4)                                                   | See note 2 (FCC 16-24)        |                                          |

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

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

2. 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.

### 3.1.3 TEST INSTRUMENTS

| Equipment                  | Manufacturer | Model No.                   | Serial No.                  | Last Cal.   | Next Cal.   |
|----------------------------|--------------|-----------------------------|-----------------------------|-------------|-------------|
| 3m Semi-anechoic Chamber   | ETS-LINDGREN | 9m*6m*6m                    | Euroshieldpn-CT0001143-1216 | May. 19,20  | May. 18,23  |
| Bilog Antenna              | ETS-LINDGREN | 3143B                       | 00161965                    | Mar. 06,22  | Mar. 05,23  |
| Horn Antenna               | ETS-LINDGREN | 3117                        | 00168692                    | Mar. 06,22  | Mar. 05,23  |
| Horn Antenna (18GHz-40GHz) | N/A          | QWH-SL-18-40-K-SG/QMS-00361 | 15433                       | Aug. 24, 22 | Aug. 23, 23 |
| Test Software              | E3           | V 9.160323                  | N/A                         | N/A         | N/A         |
| Test Software              | JS1120-3     | 3.2.06                      | N/A                         | N/A         | N/A         |
| 10dB Attenuator            | JFW/USA      | 50HF-010-SMA                | 1505                        | Jun. 02,22  | Jun. 01,23  |
| MXE EMI Receiver           | KEYSIGHT     | N9038A-544                  | MY54450026                  | Feb. 21,22  | Feb. 20,23  |
| Signal Pre-Amplifier       | EMSI         | EMC 9135                    | 980249                      | May.12,22   | May.11,23   |
| Signal Pre-Amplifier       | EMSI         | EMC 012645B                 | 980257                      | May.12,22   | May.11,23   |
| Signal Pre-Amplifier       | EMSI         | EMC 184045B                 | 980259                      | Feb. 21,22  | Feb.20,23   |
| DC Source                  | Kikusui/JP   | PMX18-5A                    | 0000001                     | Aug. 24,22  | Aug. 23,23  |
| Power Meter                | Anritsu      | ML2495A                     | 1506002                     | Feb. 22,22  | Feb. 21,23  |
| Power Sensor               | Anritsu      | MA2411B                     | 1339352                     | May. 06,22  | May. 05,23  |
| Loop Antenna               | Schwarzbeck  | FMZB 1519B                  | 00173                       | Sep. 04,22  | Sep. 03,23  |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.  
2. The test was performed in 3m Chamber.  
3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

### 3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its 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.
- d. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.

**NOTE:**

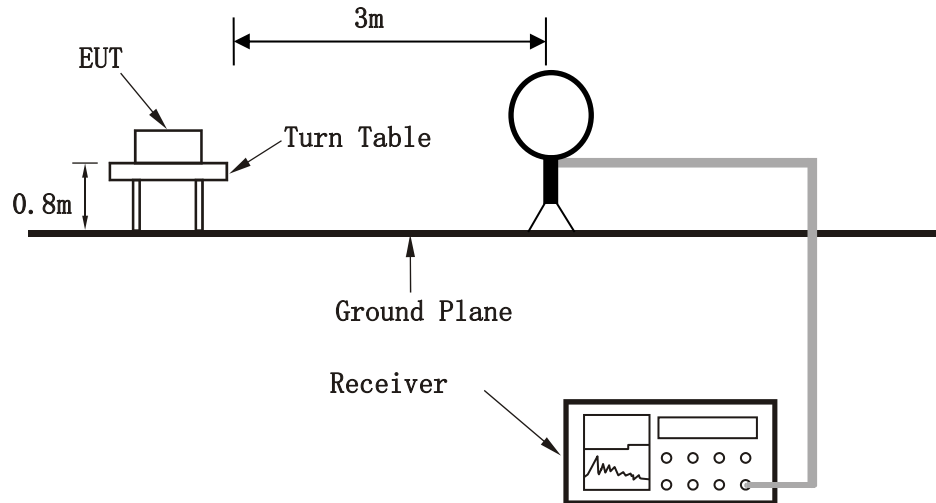
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ( $10 \log(1/\text{duty cycle})$ ).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

### 3.1.5 DEVIATION FROM TEST STANDARD

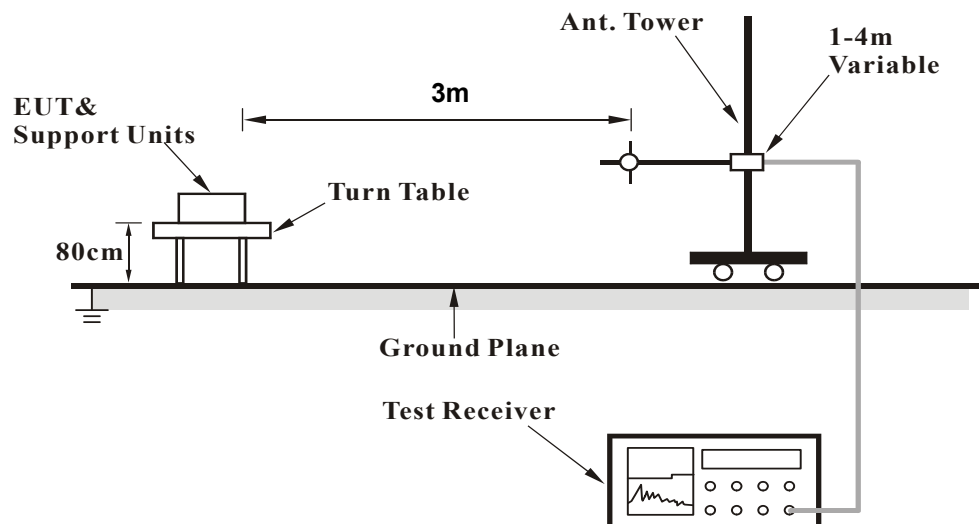
No deviation.

### 3.1.6 TEST SETUP

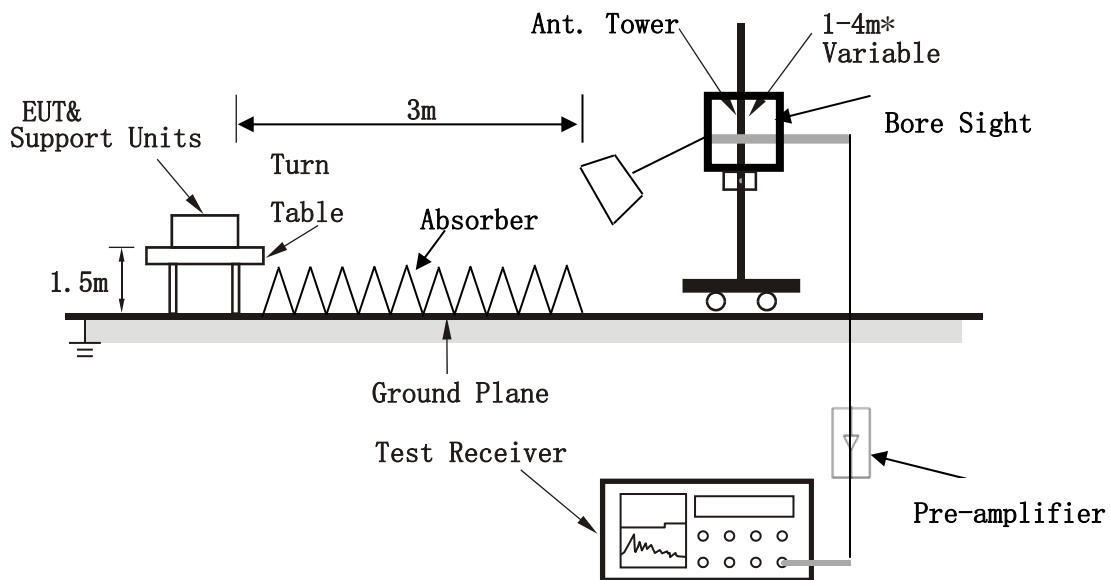
#### <Frequency Range 9KHz~30MHz >



#### < Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.1.7 EUT OPERATING CONDITION

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.



### 3.1.8 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

**30 MHz – 1GHz data:**

**Band 4**

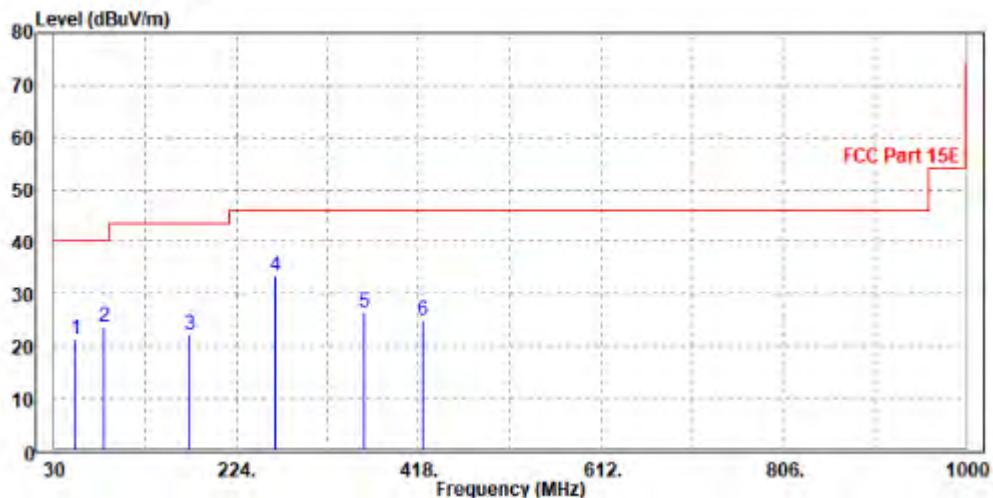
**802.11ac (20MHz)**

|                        |                |                          |                 |
|------------------------|----------------|--------------------------|-----------------|
| <b>CHANNEL</b>         | TX Channel 165 | <b>DETECTOR FUNCTION</b> | Quasi-Peak (QP) |
| <b>FREQUENCY RANGE</b> | 30MHz ~ 1GHz   |                          |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 52.31                                               | 21.22                         | 47.83                   | 40                | -18.78         | 9.97                         | 0.41                  | 36.99                    | 151                       | 127                        | QP     |
| 83.35                                               | 23.66                         | 52.02                   | 40                | -16.34         | 8.1                          | 0.5                   | 36.96                    | 100                       | 10                         | QP     |
| 174.53                                              | 22.28                         | 46.75                   | 43.5              | -21.22         | 11.26                        | 0.7                   | 36.43                    | 115                       | 75                         | QP     |
| 264.74                                              | 33.45                         | 55.21                   | 46                | -12.55         | 13.65                        | 0.86                  | 36.27                    | 180                       | 15                         | QP     |
| 359.8                                               | 26.52                         | 46.55                   | 46                | -19.48         | 15.32                        | 1.01                  | 36.36                    | 128                       | 24                         | QP     |
| 422.85                                              | 25.08                         | 43.81                   | 46                | -20.92         | 16.63                        | 1.11                  | 36.47                    | 186                       | 344                        | QP     |

#### REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

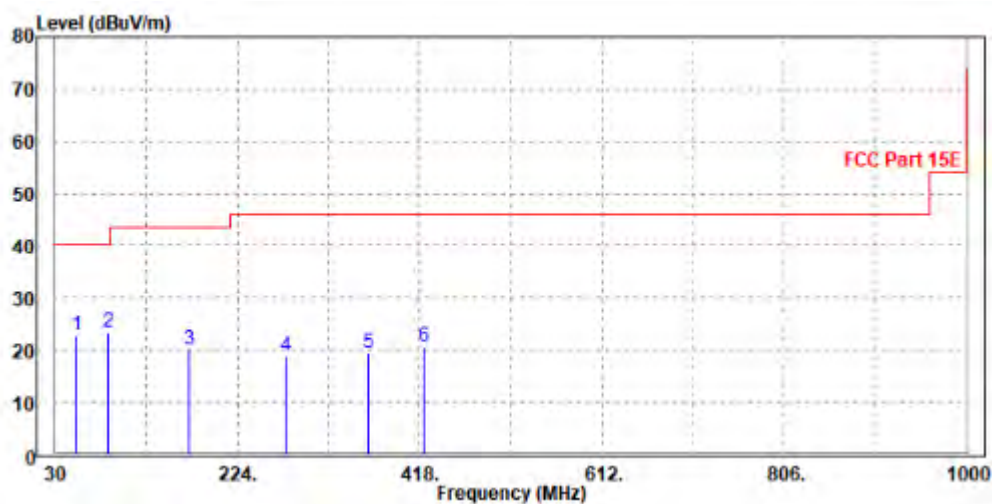


|                        |              |                          |                 |
|------------------------|--------------|--------------------------|-----------------|
| <b>CHANNEL</b>         | Channel 165  | <b>DETECTOR FUNCTION</b> | Quasi-Peak (QP) |
| <b>FREQUENCY RANGE</b> | 30MHz ~ 1GHz |                          |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|---------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                    | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 52.31                                             | 22.71                         | 49.84                   | 40                | -17.29         | 9.45                         | 0.41                  | 36.99                    | 109                       | 1                          | QP     |
| 86.26                                             | 23.49                         | 51.7                    | 40                | -16.51         | 8.23                         | 0.5                   | 36.94                    | 109                       | 252                        | QP     |
| 172.59                                            | 20.22                         | 44.88                   | 43.5              | -23.28         | 11.09                        | 0.69                  | 36.44                    | 115                       | 185                        | QP     |
| 275.41                                            | 19                            | 41.09                   | 46                | -27            | 13.31                        | 0.87                  | 36.27                    | 101                       | 241                        | QP     |
| 362.71                                            | 19.54                         | 39.45                   | 46                | -26.46         | 15.44                        | 1.01                  | 36.36                    | 134                       | 181                        | QP     |
| 422.85                                            | 20.75                         | 39.51                   | 46                | -25.25         | 16.6                         | 1.11                  | 36.47                    | 105                       | 295                        | QP     |

**REMARKS:**

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





**ABOVE 1GHz WORST-CASE DATA:**

**Note:** For higher frequency, the emission is too low to be detected.

**Band 1**

**802.11a**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 36 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.55                         | 56.62                   | 74                | -18.45         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.53                         | 51.6                    | 54                | -3.47          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5180                                                | 103.26                        | 104.32                  | /                 | /              | 34.54                        | 9.91                  | 45.51                    | 100                       | 50                         | Peak    |
| 5180                                                | 96.9                          | 97.96                   | /                 | /              | 34.54                        | 9.91                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 54.43                         | 55.41                   | 74                | -19.57         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.69                         | 48.67                   | 54                | -6.31          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.64                         | 56.63                   | 74                | -18.36         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.94                         | 50.93                   | 54                | -4.06          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5180                                                | 102.09                        | 103.09                  | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Peak    |
| 5180                                                | 95.85                         | 96.85                   | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.91                         | 54.97                   | 74                | -20.09         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.82                         | 48.88                   | 54                | -6.18          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 40 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.81                         | 57.88                   | 74                | -17.19         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.07                         | 51.14                   | 54                | -3.93          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5200                                                | 103.79                        | 104.84                  | /                 | /              | 34.56                        | 9.9                   | 45.51                    | 100                       | 50                         | Peak    |
| 5200                                                | 96.67                         | 97.72                   | /                 | /              | 34.56                        | 9.9                   | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.44                         | 54.42                   | 74                | -20.56         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.4                          | 48.38                   | 54                | -6.6           | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.91                         | 56.9                    | 74                | -18.09         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.76                         | 50.75                   | 54                | -4.24          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5200                                                | 103                           | 104.01                  | /                 | /              | 34.6                         | 9.9                   | 45.51                    | 100                       | 12                         | Peak    |
| 5200                                                | 95.89                         | 96.9                    | /                 | /              | 34.6                         | 9.9                   | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.8                          | 54.86                   | 74                | -20.2          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.71                         | 48.77                   | 54                | -6.29          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5200MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 48 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.62                         | 56.69                   | 74                | -18.38         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.78                         | 50.85                   | 54                | -4.22          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5240                                                | 104.57                        | 105.6                   | /                 | /              | 34.59                        | 9.89                  | 45.51                    | 100                       | 50                         | Peak    |
| 5240                                                | 97.99                         | 99.02                   | /                 | /              | 34.59                        | 9.89                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.9                          | 54.88                   | 74                | -20.1          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.17                         | 49.15                   | 54                | -5.83          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.15                         | 56.14                   | 74                | -18.85         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.85                         | 50.84                   | 54                | -4.15          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5240                                                | 103.68                        | 104.7                   | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Peak    |
| 5240                                                | 96.5                          | 97.52                   | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.78                         | 54.84                   | 74                | -20.22         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.96                         | 49.02                   | 54                | -6.04          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



**802.11n (20MHz)**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 36 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 57.03                         | 58.1                    | 74                | -16.97         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.16                         | 51.23                   | 54                | -3.84          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5180                                                | 102.55                        | 103.61                  | /                 | /              | 34.54                        | 9.91                  | 45.51                    | 100                       | 50                         | Peak    |
| 5180                                                | 96.13                         | 97.19                   | /                 | /              | 34.54                        | 9.91                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.63                         | 54.61                   | 74                | -20.37         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.26                         | 49.24                   | 54                | -5.74          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.41                         | 57.4                    | 74                | -17.59         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 50.24                         | 51.23                   | 54                | -3.76          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5180                                                | 101.31                        | 102.31                  | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Peak    |
| 5180                                                | 95.23                         | 96.23                   | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.14                         | 55.2                    | 74                | -19.86         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.58                         | 48.64                   | 54                | -6.42          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 40 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.54                         | 57.61                   | 74                | -17.46         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.38                         | 50.45                   | 54                | -4.62          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5200                                                | 103.07                        | 104.12                  | /                 | /              | 34.56                        | 9.9                   | 45.51                    | 100                       | 50                         | Peak    |
| 5200                                                | 96.2                          | 97.25                   | /                 | /              | 34.56                        | 9.9                   | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 54.72                         | 55.7                    | 74                | -19.28         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.58                         | 48.56                   | 54                | -6.42          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.12                         | 56.11                   | 74                | -18.88         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.84                         | 50.83                   | 54                | -4.16          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5200                                                | 102.66                        | 103.67                  | /                 | /              | 34.6                         | 9.9                   | 45.51                    | 100                       | 12                         | Peak    |
| 5200                                                | 95.37                         | 96.38                   | /                 | /              | 34.6                         | 9.9                   | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.04                         | 55.1                    | 74                | -19.96         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.52                         | 48.58                   | 54                | -6.48          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 48 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.16                         | 56.23                   | 74                | -18.84         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.53                         | 50.6                    | 54                | -4.47          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5240                                                | 104.21                        | 105.24                  | /                 | /              | 34.59                        | 9.89                  | 45.51                    | 100                       | 50                         | Peak    |
| 5240                                                | 97.34                         | 98.37                   | /                 | /              | 34.59                        | 9.89                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.24                         | 54.22                   | 74                | -20.76         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.57                         | 48.55                   | 54                | -6.43          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 54.72                         | 55.71                   | 74                | -19.28         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.93                         | 50.92                   | 54                | -4.07          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5240                                                | 102.6                         | 103.62                  | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Peak    |
| 5240                                                | 95.73                         | 96.75                   | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.9                          | 55.96                   | 74                | -19.1          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.58                         | 48.64                   | 54                | -6.42          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



**802.11n (40MHz)**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 38 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 57.43                         | 58.5                    | 74                | -16.57         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.94                         | 52.01                   | 54                | -3.06          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5190                                                | 96.89                         | 97.94                   | /                 | /              | 34.55                        | 9.91                  | 45.51                    | 100                       | 50                         | Peak    |
| 5190                                                | 90.93                         | 91.98                   | /                 | /              | 34.55                        | 9.91                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.6                          | 54.58                   | 74                | -20.4          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.49                         | 48.47                   | 54                | -6.51          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.26                         | 57.25                   | 74                | -17.74         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 50.7                          | 51.69                   | 54                | -3.3           | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5190                                                | 96.84                         | 97.84                   | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Peak    |
| 5190                                                | 90.17                         | 91.17                   | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.56                         | 55.62                   | 74                | -19.44         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.54                         | 48.6                    | 54                | -6.46          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 46 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.9                          | 56.97                   | 74                | -18.1          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.44                         | 50.51                   | 54                | -4.56          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5230                                                | 100.03                        | 101.07                  | /                 | /              | 34.58                        | 9.89                  | 45.51                    | 100                       | 50                         | Peak    |
| 5230                                                | 94.34                         | 95.38                   | /                 | /              | 34.58                        | 9.89                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 55.62                         | 56.6                    | 74                | -18.38         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.37                         | 48.35                   | 54                | -6.63          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.65                         | 56.64                   | 74                | -18.35         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.42                         | 50.41                   | 54                | -4.58          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5230                                                | 99.22                         | 100.24                  | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Peak    |
| 5230                                                | 93.36                         | 94.38                   | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.4                          | 54.46                   | 74                | -20.6          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.45                         | 48.51                   | 54                | -6.55          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.



## 802.11ac (20MHz)

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 36 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.16                         | 56.23                   | 74                | -18.84         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.13                         | 51.2                    | 54                | -3.87          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5180                                                | 102.79                        | 103.85                  | /                 | /              | 34.54                        | 9.91                  | 45.51                    | 100                       | 50                         | Peak    |
| 5180                                                | 95.7                          | 96.76                   | /                 | /              | 34.54                        | 9.91                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 55.14                         | 56.12                   | 74                | -18.86         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.5                          | 48.48                   | 54                | -6.5           | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.48                         | 56.47                   | 74                | -18.52         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.48                         | 50.47                   | 54                | -4.52          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5180                                                | 101.56                        | 102.56                  | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Peak    |
| 5180                                                | 94.63                         | 95.63                   | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.91                         | 55.97                   | 74                | -19.09         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.36                         | 48.42                   | 54                | -6.64          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

## REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5180MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 40 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.74                         | 57.81                   | 74                | -17.26         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.08                         | 51.15                   | 54                | -3.92          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5200                                                | 103.35                        | 104.4                   | /                 | /              | 34.56                        | 9.9                   | 45.51                    | 100                       | 50                         | Peak    |
| 5200                                                | 94.95                         | 96                      | /                 | /              | 34.56                        | 9.9                   | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 55.74                         | 56.72                   | 74                | -18.26         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.41                         | 48.39                   | 54                | -6.59          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.24                         | 57.23                   | 74                | -17.76         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.15                         | 50.14                   | 54                | -4.85          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5200                                                | 102.29                        | 103.3                   | /                 | /              | 34.6                         | 9.9                   | 45.51                    | 100                       | 12                         | Peak    |
| 5200                                                | 95.56                         | 96.57                   | /                 | /              | 34.6                         | 9.9                   | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.73                         | 54.79                   | 74                | -20.27         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 46.94                         | 48                      | 54                | -7.06          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 48 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.12                         | 57.19                   | 74                | -17.88         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.27                         | 51.34                   | 54                | -3.73          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5240                                                | 104.35                        | 105.38                  | /                 | /              | 34.59                        | 9.89                  | 45.51                    | 100                       | 50                         | Peak    |
| 5240                                                | 97.34                         | 98.37                   | /                 | /              | 34.59                        | 9.89                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 54.16                         | 55.14                   | 74                | -19.84         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.46                         | 49.44                   | 54                | -5.54          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.07                         | 56.06                   | 74                | -18.93         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.33                         | 50.32                   | 54                | -4.67          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5240                                                | 102.68                        | 103.7                   | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Peak    |
| 5240                                                | 95.84                         | 96.86                   | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 55.61                         | 56.67                   | 74                | -18.39         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.37                         | 48.43                   | 54                | -6.63          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



## 802.11ac (40MHz)

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 38 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 58.1                          | 59.17                   | 74                | -15.9          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.91                         | 51.98                   | 54                | -3.09          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5190                                                | 97.14                         | 98.19                   | /                 | /              | 34.55                        | 9.91                  | 45.51                    | 100                       | 50                         | Peak    |
| 5190                                                | 90.99                         | 92.04                   | /                 | /              | 34.55                        | 9.91                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.83                         | 54.81                   | 74                | -20.17         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.3                          | 48.28                   | 54                | -6.7           | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 57.41                         | 58.4                    | 74                | -16.59         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 50.44                         | 51.43                   | 54                | -3.56          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5190                                                | 96.48                         | 97.48                   | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Peak    |
| 5190                                                | 90.28                         | 91.28                   | /                 | /              | 34.6                         | 9.91                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.28                         | 54.34                   | 74                | -20.72         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.23                         | 48.29                   | 54                | -6.77          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

## REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 46 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.4                          | 56.47                   | 74                | -18.6          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.27                         | 50.34                   | 54                | -4.73          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5230                                                | 100.05                        | 101.09                  | /                 | /              | 34.58                        | 9.89                  | 45.51                    | 100                       | 50                         | Peak    |
| 5230                                                | 94.22                         | 95.26                   | /                 | /              | 34.58                        | 9.89                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.85                         | 54.83                   | 74                | -20.15         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.35                         | 48.33                   | 54                | -6.65          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 57.03                         | 58.02                   | 74                | -16.97         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.72                         | 50.71                   | 54                | -4.28          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5230                                                | 98.98                         | 100                     | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Peak    |
| 5230                                                | 93.34                         | 94.36                   | /                 | /              | 34.6                         | 9.89                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 55.25                         | 56.31                   | 74                | -18.75         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 49.44                         | 50.5                    | 54                | -4.56          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.



**802.11ac (80MHz)**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 42 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 57.77                         | 58.84                   | 74                | -16.23         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.86                         | 51.93                   | 54                | -3.14          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5210                                                | 93.13                         | 94.17                   | /                 | /              | 34.57                        | 9.9                   | 45.51                    | 100                       | 50                         | Peak    |
| 5210                                                | 87.77                         | 88.81                   | /                 | /              | 34.57                        | 9.9                   | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.63                         | 54.61                   | 74                | -20.37         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.64                         | 48.62                   | 54                | -6.36          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.82                         | 56.81                   | 74                | -18.18         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 50.41                         | 51.4                    | 54                | -3.59          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5210                                                | 92.78                         | 93.79                   | /                 | /              | 34.6                         | 9.9                   | 45.51                    | 100                       | 12                         | Peak    |
| 5210                                                | 87.31                         | 88.32                   | /                 | /              | 34.6                         | 9.9                   | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.22                         | 55.28                   | 74                | -19.78         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.31                         | 48.37                   | 54                | -6.69          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.

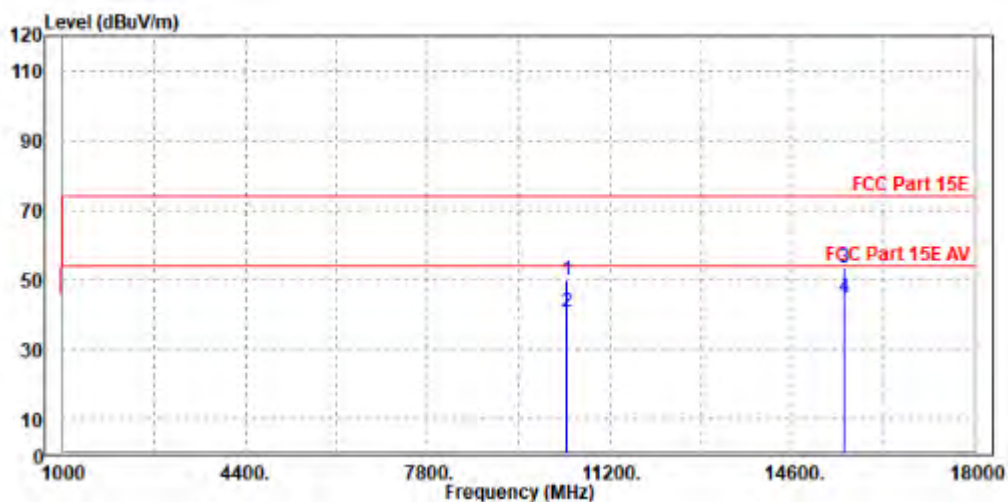
Worst case harmonic:

802.11n (40MHz)

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 38 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

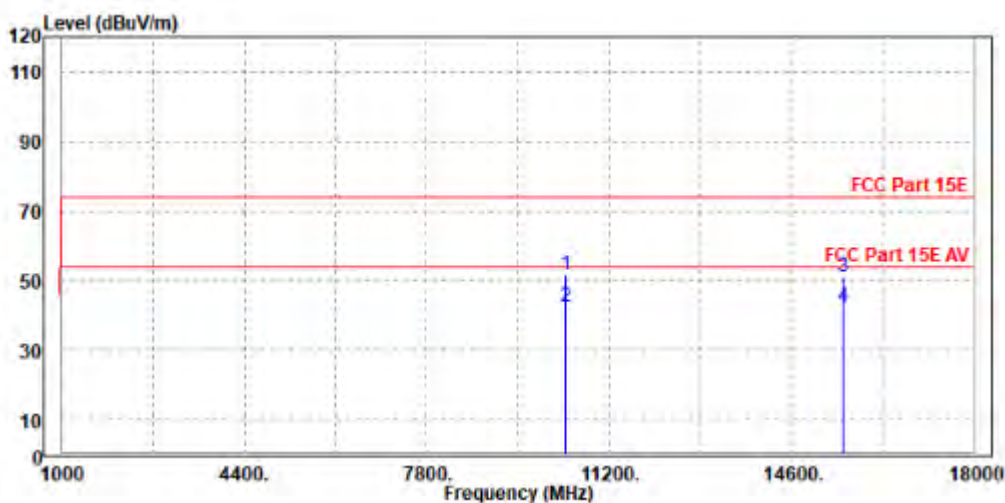
**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark  | Pol/Phase  |
|---|-------------|--------|------------|------------|------------|--------|---------|------------|
|   | MHz         | dBuV/m | dBuV       | dBuV/m     | dB         | dB/m   |         |            |
| 1 | 10380.000   | 49.56  | 42.68      | 74.00      | -24.44     | 6.88   | Peak    | Horizontal |
| 2 | 10380.000   | 40.52  | 33.64      | 54.00      | -13.48     | 6.88   | Average | Horizontal |
| 3 | PK15569.000 | 53.43  | 40.58      | 74.00      | -20.57     | 12.85  | Peak    | Horizontal |
| 4 | PP15569.000 | 44.78  | 31.93      | 54.00      | -9.22      | 12.85  | Average | Horizontal |



**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

|   | Freq        | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark  | Pol/Phase |
|---|-------------|--------|---------------|---------------|---------------|--------|---------|-----------|
|   | MHz         | dBuV/m | dBuV          | dBuV/m        | dB            | dB/m   |         |           |
| 1 | PK10384.000 | 51.40  | 43.37         | 74.00         | -22.60        | 8.03   | Peak    | Vertical  |
| 2 | PP10384.000 | 42.61  | 34.58         | 54.00         | -11.39        | 8.03   | Average | Vertical  |
| 3 | 15570.000   | 50.94  | 39.08         | 74.00         | -23.06        | 11.86  | Peak    | Vertical  |
| 4 | 15570.000   | 42.41  | 30.55         | 54.00         | -11.59        | 11.86  | Average | Vertical  |



**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



## Band 2

## 802.11a

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 52 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.41                         | 57.48                   | 74                | -17.59         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.6                          | 50.67                   | 54                | -4.4           | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5260                                                | 104.76                        | 105.78                  | /                 | /              | 34.61                        | 9.88                  | 45.51                    | 100                       | 50                         | Peak    |
| 5260                                                | 96.99                         | 98.01                   | /                 | /              | 34.61                        | 9.88                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 54.17                         | 55.15                   | 74                | -19.83         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.32                         | 49.3                    | 54                | -5.68          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.15                         | 56.14                   | 74                | -18.85         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.79                         | 50.78                   | 54                | -4.21          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5260                                                | 103.57                        | 104.6                   | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 12                         | Peak    |
| 5260                                                | 96.37                         | 97.4                    | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.2                          | 54.26                   | 74                | -20.8          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.77                         | 48.83                   | 54                | -6.23          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

## REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5260MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 60 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.07                         | 56.14                   | 74                | -18.93         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.95                         | 51.02                   | 54                | -4.05          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5300                                                | 103.23                        | 104.23                  | /                 | /              | 34.64                        | 9.87                  | 45.51                    | 100                       | 50                         | Peak    |
| 5300                                                | 96.81                         | 97.81                   | /                 | /              | 34.64                        | 9.87                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.94                         | 54.92                   | 74                | -20.06         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.61                         | 49.59                   | 54                | -5.39          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 57.38                         | 58.37                   | 74                | -16.62         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.44                         | 50.43                   | 54                | -4.56          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5300                                                | 102.35                        | 103.39                  | /                 | /              | 34.6                         | 9.87                  | 45.51                    | 100                       | 12                         | Peak    |
| 5300                                                | 95.86                         | 96.9                    | /                 | /              | 34.6                         | 9.87                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.32                         | 54.38                   | 74                | -20.68         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.95                         | 49.01                   | 54                | -6.05          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 64 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.28                         | 56.35                   | 74                | -18.72         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.78                         | 50.85                   | 54                | -4.22          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5320                                                | 102.47                        | 103.46                  | /                 | /              | 34.66                        | 9.86                  | 45.51                    | 100                       | 50                         | Peak    |
| 5320                                                | 95.57                         | 96.56                   | /                 | /              | 34.66                        | 9.86                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 55.24                         | 56.22                   | 74                | -18.76         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.87                         | 48.85                   | 54                | -6.13          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 57.8                          | 58.79                   | 74                | -16.2          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 50.03                         | 51.02                   | 54                | -3.97          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5320                                                | 103.23                        | 104.28                  | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 12                         | Peak    |
| 5320                                                | 95.68                         | 96.73                   | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.49                         | 54.55                   | 74                | -20.51         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.63                         | 48.69                   | 54                | -6.37          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



## 802.11n (20MHz)

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 52 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.04                         | 57.11                   | 74                | -17.96         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.31                         | 50.38                   | 54                | -4.69          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5260                                                | 103.19                        | 104.21                  | /                 | /              | 34.61                        | 9.88                  | 45.51                    | 100                       | 50                         | Peak    |
| 5260                                                | 96.75                         | 97.77                   | /                 | /              | 34.61                        | 9.88                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.98                         | 54.96                   | 74                | -20.02         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.32                         | 49.3                    | 54                | -5.68          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.23                         | 56.22                   | 74                | -18.77         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.82                         | 50.81                   | 54                | -4.18          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5260                                                | 102.45                        | 103.48                  | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 12                         | Peak    |
| 5260                                                | 95.87                         | 96.9                    | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 53.98                         | 55.04                   | 74                | -20.02         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.48                         | 48.54                   | 54                | -6.52          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

## REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5260MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 60 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.42                         | 56.49                   | 74                | -18.58         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.3                          | 50.37                   | 54                | -4.7           | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5300                                                | 103.09                        | 104.09                  | /                 | /              | 34.64                        | 9.87                  | 45.51                    | 100                       | 50                         | Peak    |
| 5300                                                | 96.59                         | 97.59                   | /                 | /              | 34.64                        | 9.87                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 54.5                          | 55.48                   | 74                | -19.5          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.92                         | 48.9                    | 54                | -6.08          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.81                         | 57.8                    | 74                | -17.19         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.75                         | 50.74                   | 54                | -4.25          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5300                                                | 101.76                        | 102.8                   | /                 | /              | 34.6                         | 9.87                  | 45.51                    | 100                       | 12                         | Peak    |
| 5300                                                | 95.7                          | 96.74                   | /                 | /              | 34.6                         | 9.87                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.78                         | 55.84                   | 74                | -19.22         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 48.56                         | 49.62                   | 54                | -5.44          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 64 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.41                         | 56.48                   | 74                | -18.59         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.44                         | 50.51                   | 54                | -4.56          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5320                                                | 101.54                        | 102.53                  | /                 | /              | 34.66                        | 9.86                  | 45.51                    | 100                       | 50                         | Peak    |
| 5320                                                | 95.45                         | 96.44                   | /                 | /              | 34.66                        | 9.86                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.84                         | 54.82                   | 74                | -20.16         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48                            | 48.98                   | 54                | -6             | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 54.75                         | 55.74                   | 74                | -19.25         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.69                         | 50.68                   | 54                | -4.31          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5320                                                | 101.62                        | 102.67                  | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 12                         | Peak    |
| 5320                                                | 95.28                         | 96.33                   | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 55.51                         | 56.57                   | 74                | -18.49         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.79                         | 48.85                   | 54                | -6.21          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



## 802.11n (40MHz)

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 54 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 54.5                          | 55.57                   | 74                | -19.5          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.79                         | 50.86                   | 54                | -4.21          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5270                                                | 100.14                        | 101.15                  | /                 | /              | 34.62                        | 9.88                  | 45.51                    | 100                       | 50                         | Peak    |
| 5270                                                | 93.95                         | 94.96                   | /                 | /              | 34.62                        | 9.88                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 55.32                         | 56.3                    | 74                | -18.68         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.72                         | 49.7                    | 54                | -5.28          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 56.53                         | 57.52                   | 74                | -17.47         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.79                         | 50.78                   | 54                | -4.21          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5270                                                | 99.68                         | 100.71                  | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 12                         | Peak    |
| 5270                                                | 91.12                         | 92.15                   | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 55.53                         | 56.59                   | 74                | -18.47         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 48.23                         | 49.29                   | 54                | -5.77          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

## REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 62 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 54.52                         | 55.59                   | 74                | -19.48         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.34                         | 50.41                   | 54                | -4.66          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5310                                                | 96.37                         | 97.37                   | /                 | /              | 34.65                        | 9.86                  | 45.51                    | 100                       | 50                         | Peak    |
| 5310                                                | 91.63                         | 92.63                   | /                 | /              | 34.65                        | 9.86                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 54.44                         | 55.42                   | 74                | -19.56         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 50.87                         | 51.85                   | 54                | -3.13          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 54.83                         | 55.82                   | 74                | -19.17         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.03                         | 50.02                   | 54                | -4.97          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5310                                                | 95.14                         | 96.19                   | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 12                         | Peak    |
| 5310                                                | 91.22                         | 92.27                   | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 56.24                         | 57.3                    | 74                | -17.76         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 50.48                         | 51.54                   | 54                | -3.52          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5310MHz: Fundamental frequency.



**802.11ac (20MHz)**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 52 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.72                         | 56.79                   | 74                | -18.28         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 50.38                         | 51.45                   | 54                | -3.62          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5260                                                | 104.23                        | 105.25                  | /                 | /              | 34.61                        | 9.88                  | 45.51                    | 100                       | 50                         | Peak    |
| 5260                                                | 98.24                         | 99.26                   | /                 | /              | 34.61                        | 9.88                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.66                         | 54.64                   | 74                | -20.34         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.53                         | 49.51                   | 54                | -5.47          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.52                         | 56.51                   | 74                | -18.48         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.75                         | 50.74                   | 54                | -4.25          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5260                                                | 100.78                        | 101.81                  | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 12                         | Peak    |
| 5260                                                | 95.38                         | 96.41                   | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.13                         | 55.19                   | 74                | -19.87         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 48.53                         | 49.59                   | 54                | -5.47          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 60 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 54.94                         | 56.01                   | 74                | -19.06         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.49                         | 50.56                   | 54                | -4.51          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5300                                                | 103.67                        | 104.67                  | /                 | /              | 34.64                        | 9.87                  | 45.51                    | 100                       | 50                         | Peak    |
| 5300                                                | 97.53                         | 98.53                   | /                 | /              | 34.64                        | 9.87                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 53.63                         | 54.61                   | 74                | -20.37         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.73                         | 49.71                   | 54                | -5.27          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.76                         | 56.75                   | 74                | -18.24         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.49                         | 50.48                   | 54                | -4.51          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5300                                                | 100.87                        | 101.91                  | /                 | /              | 34.6                         | 9.87                  | 45.51                    | 100                       | 12                         | Peak    |
| 5300                                                | 94.15                         | 95.19                   | /                 | /              | 34.6                         | 9.87                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.73                         | 55.79                   | 74                | -19.27         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.22                         | 48.28                   | 54                | -6.78          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 64 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 53.58                         | 54.65                   | 74                | -20.42         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 48.7                          | 49.77                   | 54                | -5.3           | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5320                                                | 102.4                         | 103.39                  | /                 | /              | 34.66                        | 9.86                  | 45.51                    | 100                       | 50                         | Peak    |
| 5320                                                | 95.67                         | 96.66                   | /                 | /              | 34.66                        | 9.86                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 54.38                         | 55.36                   | 74                | -19.62         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 47.54                         | 48.52                   | 54                | -6.46          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.04                         | 56.03                   | 74                | -18.96         | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Peak    |
| 5150                                                | 49.11                         | 50.1                    | 54                | -4.89          | 34.6                         | 9.92                  | 45.51                    | 100                       | 12                         | Average |
| 5320                                                | 101.26                        | 102.31                  | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 12                         | Peak    |
| 5320                                                | 95.35                         | 96.4                    | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 12                         | Average |
| 5350                                                | 54.11                         | 55.17                   | 74                | -19.89         | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Peak    |
| 5350                                                | 47.95                         | 49.01                   | 54                | -6.05          | 34.6                         | 9.85                  | 45.51                    | 100                       | 12                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



**802.11ac (40MHz)**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 54 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 53.33                         | 54.4                    | 74                | -20.67         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.75                         | 50.82                   | 54                | -4.25          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5270                                                | 99.62                         | 100.63                  | /                 | /              | 34.62                        | 9.88                  | 45.51                    | 100                       | 50                         | Peak    |
| 5270                                                | 93.57                         | 94.58                   | /                 | /              | 34.62                        | 9.88                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 54.54                         | 55.52                   | 74                | -19.46         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 48.15                         | 49.13                   | 54                | -5.85          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.03                         | 56.02                   | 74                | -18.97         | 34.6                         | 9.92                  | 45.51                    | 100                       | 15                         | Peak    |
| 5150                                                | 49.59                         | 50.58                   | 54                | -4.41          | 34.6                         | 9.92                  | 45.51                    | 100                       | 15                         | Average |
| 5270                                                | 98.33                         | 99.36                   | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 15                         | Peak    |
| 5270                                                | 93.1                          | 94.13                   | /                 | /              | 34.6                         | 9.88                  | 45.51                    | 100                       | 15                         | Average |
| 5350                                                | 53.26                         | 54.32                   | 74                | -20.74         | 34.6                         | 9.85                  | 45.51                    | 100                       | 15                         | Peak    |
| 5350                                                | 47.63                         | 48.69                   | 54                | -6.37          | 34.6                         | 9.85                  | 45.51                    | 100                       | 15                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 62 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 53.88                         | 54.95                   | 74                | -20.12         | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Peak    |
| 5150                                                | 49.65                         | 50.72                   | 54                | -4.35          | 34.52                        | 9.92                  | 45.51                    | 100                       | 50                         | Average |
| 5310                                                | 96.72                         | 97.72                   | /                 | /              | 34.65                        | 9.86                  | 45.51                    | 100                       | 50                         | Peak    |
| 5310                                                | 91.55                         | 92.55                   | /                 | /              | 34.65                        | 9.86                  | 45.51                    | 100                       | 50                         | Average |
| 5350                                                | 54.24                         | 55.22                   | 74                | -19.76         | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Peak    |
| 5350                                                | 50.59                         | 51.57                   | 54                | -3.41          | 34.68                        | 9.85                  | 45.51                    | 100                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5150                                                | 55.63                         | 56.62                   | 74                | -18.37         | 34.6                         | 9.92                  | 45.51                    | 100                       | 15                         | Peak    |
| 5150                                                | 49.4                          | 50.39                   | 54                | -4.6           | 34.6                         | 9.92                  | 45.51                    | 100                       | 15                         | Average |
| 5310                                                | 95.76                         | 96.81                   | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 15                         | Peak    |
| 5310                                                | 91                            | 92.05                   | /                 | /              | 34.6                         | 9.86                  | 45.51                    | 100                       | 15                         | Average |
| 5350                                                | 55.18                         | 56.24                   | 74                | -18.82         | 34.6                         | 9.85                  | 45.51                    | 100                       | 15                         | Peak    |
| 5350                                                | 49.51                         | 50.57                   | 54                | -4.49          | 34.6                         | 9.85                  | 45.51                    | 100                       | 15                         | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5310MHz: Fundamental frequency.



**802.11ac (80MHz)**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 58 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                          | Average (AV) |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |                                        |                                  |                           |                        |                                       |                                |                                   |                                    |                                     |               |
|----------------------------------------------------------------|----------------------------------------|----------------------------------|---------------------------|------------------------|---------------------------------------|--------------------------------|-----------------------------------|------------------------------------|-------------------------------------|---------------|
| <b>FREQ.<br/>(MHz)</b>                                         | <b>EMISSION<br/>LEVEL<br/>(dBuV/m)</b> | <b>READ<br/>LEVEL<br/>(dBuV)</b> | <b>LIMIT<br/>(dBuV/m)</b> | <b>MARGIN<br/>(dB)</b> | <b>ANTENNA<br/>FACTOR<br/>(dB /m)</b> | <b>CABLE<br/>LOSS<br/>(dB)</b> | <b>PREAMP<br/>FACTOR<br/>(dB)</b> | <b>ANTENNA<br/>HEIGHT<br/>(cm)</b> | <b>TABLE<br/>ANGLE<br/>(Degree)</b> | <b>REMARK</b> |
| 5150                                                           | 53.04                                  | 54.11                            | 74                        | -20.96                 | 34.52                                 | 9.92                           | 45.51                             | 100                                | 50                                  | Peak          |
| 5150                                                           | 49.8                                   | 50.87                            | 54                        | -4.2                   | 34.52                                 | 9.92                           | 45.51                             | 100                                | 50                                  | Average       |
| 5290                                                           | 93.97                                  | 94.98                            | /                         | /                      | 34.63                                 | 9.87                           | 45.51                             | 100                                | 50                                  | Peak          |
| 5290                                                           | 88.73                                  | 89.74                            | /                         | /                      | 34.63                                 | 9.87                           | 45.51                             | 100                                | 50                                  | Average       |
| 5350                                                           | 57.9                                   | 58.88                            | 74                        | -16.1                  | 34.68                                 | 9.85                           | 45.51                             | 100                                | 50                                  | Peak          |
| 5350                                                           | 50.96                                  | 51.94                            | 54                        | -3.04                  | 34.68                                 | 9.85                           | 45.51                             | 100                                | 50                                  | Average       |
| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>   |                                        |                                  |                           |                        |                                       |                                |                                   |                                    |                                     |               |
| <b>FREQ.<br/>(MHz)</b>                                         | <b>EMISSION<br/>LEVEL<br/>(dBuV/m)</b> | <b>READ<br/>LEVEL<br/>(dBuV)</b> | <b>LIMIT<br/>(dBuV/m)</b> | <b>MARGIN<br/>(dB)</b> | <b>ANTENNA<br/>FACTOR<br/>(dB /m)</b> | <b>CABLE<br/>LOSS<br/>(dB)</b> | <b>PREAMP<br/>FACTOR<br/>(dB)</b> | <b>ANTENNA<br/>HEIGHT<br/>(cm)</b> | <b>TABLE<br/>ANGLE<br/>(Degree)</b> | <b>REMARK</b> |
| 5150                                                           | 53.87                                  | 54.86                            | 74                        | -20.13                 | 34.6                                  | 9.92                           | 45.51                             | 100                                | 15                                  | Peak          |
| 5150                                                           | 49.73                                  | 50.72                            | 54                        | -4.27                  | 34.6                                  | 9.92                           | 45.51                             | 100                                | 15                                  | Average       |
| 5290                                                           | 93.45                                  | 94.49                            | /                         | /                      | 34.6                                  | 9.87                           | 45.51                             | 100                                | 15                                  | Peak          |
| 5290                                                           | 88.28                                  | 89.32                            | /                         | /                      | 34.6                                  | 9.87                           | 45.51                             | 100                                | 15                                  | Average       |
| 5350                                                           | 55.42                                  | 56.48                            | 74                        | -18.58                 | 34.6                                  | 9.85                           | 45.51                             | 100                                | 15                                  | Peak          |
| 5350                                                           | 50.63                                  | 51.69                            | 54                        | -3.37                  | 34.6                                  | 9.85                           | 45.51                             | 100                                | 15                                  | Average       |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.



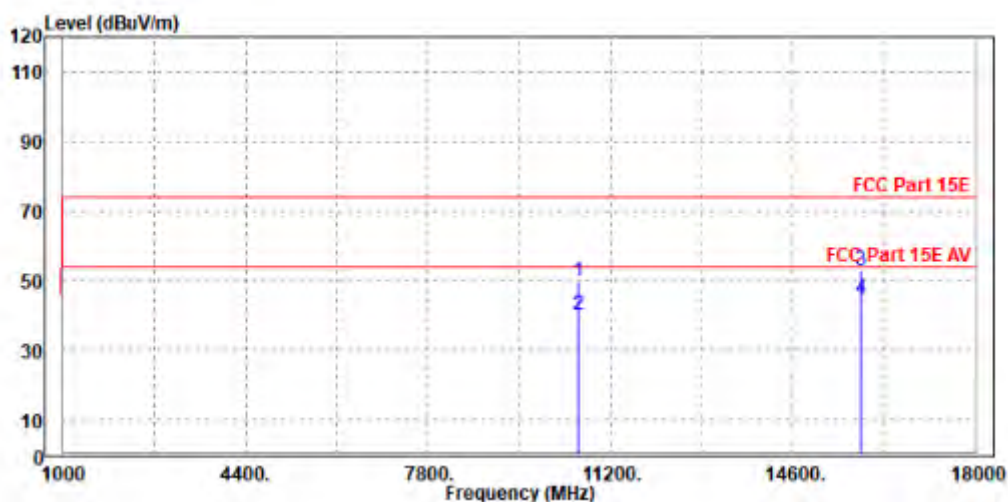
802.11ac (80MHz)

Worst case harmonic:

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 58 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

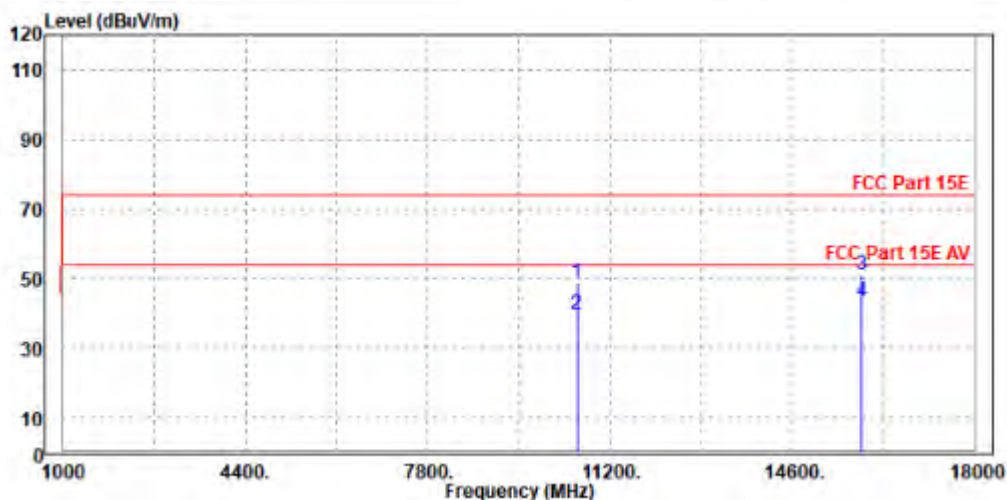
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

|   | Freq        | Level  | Read  | Limit  | Over   |        |         |            |
|---|-------------|--------|-------|--------|--------|--------|---------|------------|
|   | MHz         | dBuV/m | Level | Line   | Limit  | Factor | Remark  | Pol/Phase  |
|   |             |        | dBuV  | dBuV/m | dB     | dB/m   |         |            |
| 1 | 10588.000   | 49.62  | 42.68 | 74.00  | -24.38 | 6.94   | Peak    | Horizontal |
| 2 | 10588.000   | 40.12  | 33.18 | 54.00  | -13.88 | 6.94   | Average | Horizontal |
| 3 | PK15870.000 | 52.83  | 38.79 | 74.00  | -21.17 | 14.04  | Peak    | Horizontal |
| 4 | PP15870.000 | 44.59  | 30.55 | 54.00  | -9.41  | 14.04  | Average | Horizontal |



**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

|   | Freq        | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark  | Pol/Phase |
|---|-------------|--------|---------------|---------------|---------------|--------|---------|-----------|
|   | MHz         | dBuV/m | dBuV          | dBuV/m        | dB            | dB/m   |         |           |
| 1 | 10580.000   | 49.00  | 40.82         | 74.00         | -25.00        | 8.18   | Peak    | Vertical  |
| 2 | 10580.000   | 39.89  | 31.71         | 54.00         | -14.11        | 8.18   | Average | Vertical  |
| 3 | PK15875.000 | 50.99  | 38.35         | 74.00         | -23.01        | 12.64  | Peak    | Vertical  |
| 4 | PP15875.000 | 43.16  | 30.52         | 54.00         | -10.84        | 12.64  | Average | Vertical  |



**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**Band 3**

**802.11a**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 100 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.88                         | 55.81                   | 74                | -19.12         | 34.77                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5460                                                | 48.6                          | 49.53                   | 54                | -5.4           | 34.77                        | 9.81                  | 45.51                    | 200                       | 50                         | Average |
| 5470                                                | 55.67                         | 56.59                   | 68.2              | -12.53         | 34.78                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5500                                                | 103.13                        | 104.03                  | /                 | /              | 34.8                         | 9.8                   | 45.5                     | 200                       | 50                         | Peak    |
| 5500                                                | 95.86                         | 96.76                   | /                 | /              | 34.8                         | 9.8                   | 45.5                     | 200                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 55.19                         | 56.29                   | 74                | -18.81         | 34.6                         | 9.81                  | 45.51                    | 200                       | 15                         | Peak    |
| 5460                                                | 47.15                         | 48.25                   | 54                | -6.85          | 34.6                         | 9.81                  | 45.51                    | 200                       | 15                         | Average |
| 5470                                                | 54.18                         | 55.28                   | 68.2              | -14.02         | 34.6                         | 9.81                  | 45.51                    | 200                       | 15                         | Peak    |
| 5500                                                | 99.91                         | 101.01                  | /                 | /              | 34.6                         | 9.8                   | 45.5                     | 200                       | 15                         | Peak    |
| 5500                                                | 93.36                         | 94.46                   | /                 | /              | 34.6                         | 9.8                   | 45.5                     | 200                       | 15                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 116 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 53.12                         | 54.05                   | 74                | -20.88         | 34.77                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5460                                                | 47.48                         | 48.41                   | 54                | -6.52          | 34.77                        | 9.81                  | 45.51                    | 200                       | 50                         | Average |
| 5470                                                | 53.46                         | 54.38                   | 68.2              | -14.74         | 34.78                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5580                                                | 102.24                        | 103.01                  | /                 | /              | 34.9                         | 9.83                  | 45.5                     | 200                       | 50                         | Peak    |
| 5580                                                | 95.4                          | 96.17                   | /                 | /              | 34.9                         | 9.83                  | 45.5                     | 200                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 52.95                         | 54.05                   | 74                | -21.05         | 34.6                         | 9.81                  | 45.51                    | 200                       | 15                         | Peak    |
| 5460                                                | 47.62                         | 48.72                   | 54                | -6.38          | 34.6                         | 9.81                  | 45.51                    | 200                       | 15                         | Average |
| 5470                                                | 54.59                         | 55.69                   | 68.2              | -13.61         | 34.6                         | 9.81                  | 45.51                    | 200                       | 15                         | Peak    |
| 5580                                                | 98.57                         | 99.54                   | /                 | /              | 34.7                         | 9.83                  | 45.5                     | 200                       | 15                         | Peak    |
| 5580                                                | 91.82                         | 92.79                   | /                 | /              | 34.7                         | 9.83                  | 45.5                     | 200                       | 15                         | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 140 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5700                                                | 102.86                        | 103.45                  | /                 | /              | 35.04                        | 9.87                  | 45.5                     | 200                       | 50                         | Peak    |
| 5700                                                | 95.58                         | 96.17                   | /                 | /              | 35.04                        | 9.87                  | 45.5                     | 200                       | 50                         | Average |
| 5725                                                | 55.01                         | 55.56                   | 68.2              | -13.19         | 35.07                        | 9.88                  | 45.5                     | 200                       | 50                         | Peak    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5700                                                | 98.71                         | 99.5                    | /                 | /              | 34.84                        | 9.87                  | 45.5                     | 200                       | 15                         | Peak    |
| 5700                                                | 91.2                          | 91.99                   | /                 | /              | 34.84                        | 9.87                  | 45.5                     | 200                       | 15                         | Average |
| 5725                                                | 56.14                         | 56.89                   | 68.2              | -12.06         | 34.87                        | 9.88                  | 45.5                     | 200                       | 15                         | Peak    |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5700MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 144 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 54.47                         | 55.39                   | 68.2              | -13.73         | 34.78                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5720                                                | 102.87                        | 103.44                  | /                 | /              | 35.06                        | 9.87                  | 45.5                     | 200                       | 50                         | Peak    |
| 5720                                                | 96.54                         | 97.11                   | /                 | /              | 35.06                        | 9.87                  | 45.5                     | 200                       | 50                         | Average |
| 5850                                                | 54.36                         | 54.72                   | 68.2              | -13.84         | 35.22                        | 9.92                  | 45.5                     | 200                       | 50                         | Peak    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 53.44                         | 54.54                   | 68.2              | -14.76         | 34.6                         | 9.81                  | 45.51                    | 200                       | 10                         | Peak    |
| 5720                                                | 101.08                        | 101.85                  | /                 | /              | 34.86                        | 9.87                  | 45.5                     | 200                       | 10                         | Peak    |
| 5720                                                | 93.74                         | 94.51                   | /                 | /              | 34.86                        | 9.87                  | 45.5                     | 200                       | 10                         | Average |
| 5850                                                | 55.32                         | 55.88                   | 68.2              | -12.88         | 35.02                        | 9.92                  | 45.5                     | 200                       | 10                         | Peak    |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5720MHz: Fundamental frequency.
- #: Out of restricted band.



## 802.11n (20MHz)

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 100 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 53.49                         | 54.42                   | 74                | -20.51         | 34.77                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5460                                                | 48.42                         | 49.35                   | 54                | -5.58          | 34.77                        | 9.81                  | 45.51                    | 200                       | 50                         | Average |
| 5470                                                | 55.9                          | 56.82                   | 68.2              | -12.3          | 34.78                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5500                                                | 101.99                        | 102.89                  | /                 | /              | 34.8                         | 9.8                   | 45.5                     | 200                       | 50                         | Peak    |
| 5500                                                | 95.39                         | 96.29                   | /                 | /              | 34.8                         | 9.8                   | 45.5                     | 200                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 53.88                         | 54.98                   | 74                | -20.12         | 34.6                         | 9.81                  | 45.51                    | 200                       | 10                         | Peak    |
| 5460                                                | 47.7                          | 48.8                    | 54                | -6.3           | 34.6                         | 9.81                  | 45.51                    | 200                       | 10                         | Average |
| 5470                                                | 53.57                         | 54.67                   | 68.2              | -14.63         | 34.6                         | 9.81                  | 45.51                    | 200                       | 10                         | Peak    |
| 5500                                                | 99.19                         | 100.29                  | /                 | /              | 34.6                         | 9.8                   | 45.5                     | 200                       | 10                         | Peak    |
| 5500                                                | 91.5                          | 92.6                    | /                 | /              | 34.6                         | 9.8                   | 45.5                     | 200                       | 10                         | Average |

## REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 116 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.04                         | 54.97                   | 74                | -19.96         | 34.77                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5460                                                | 47.76                         | 48.69                   | 54                | -6.24          | 34.77                        | 9.81                  | 45.51                    | 200                       | 50                         | Average |
| 5470                                                | 54.23                         | 55.15                   | 68.2              | -13.97         | 34.78                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5580                                                | 101.59                        | 102.36                  | /                 | /              | 34.9                         | 9.83                  | 45.5                     | 200                       | 50                         | Peak    |
| 5580                                                | 95.38                         | 96.15                   | /                 | /              | 34.9                         | 9.83                  | 45.5                     | 200                       | 50                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 53.37                         | 54.47                   | 74                | -20.63         | 34.6                         | 9.81                  | 45.51                    | 200                       | 10                         | Peak    |
| 5460                                                | 47.65                         | 48.75                   | 54                | -6.35          | 34.6                         | 9.81                  | 45.51                    | 200                       | 10                         | Average |
| 5470                                                | 53.47                         | 54.57                   | 68.2              | -14.73         | 34.6                         | 9.81                  | 45.51                    | 200                       | 10                         | Peak    |
| 5580                                                | 96.47                         | 97.44                   | /                 | /              | 34.7                         | 9.83                  | 45.5                     | 200                       | 10                         | Peak    |
| 5580                                                | 89.43                         | 90.4                    | /                 | /              | 34.7                         | 9.83                  | 45.5                     | 200                       | 10                         | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 140 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5700                                                | 102.07                        | 102.66                  | /                 | /              | 35.04                        | 9.87                  | 45.5                     | 200                       | 50                         | Peak    |
| 5700                                                | 96.1                          | 96.69                   | /                 | /              | 35.04                        | 9.87                  | 45.5                     | 200                       | 50                         | Average |
| 5725                                                | 54.6                          | 55.15                   | 68.2              | -13.6          | 35.07                        | 9.88                  | 45.5                     | 200                       | 50                         | Peak    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5700                                                | 99.87                         | 100.66                  | /                 | /              | 34.84                        | 9.87                  | 45.5                     | 200                       | 10                         | Peak    |
| 5700                                                | 93.33                         | 94.12                   | /                 | /              | 34.84                        | 9.87                  | 45.5                     | 200                       | 10                         | Average |
| 5725                                                | 54.71                         | 55.46                   | 68.2              | -13.49         | 34.87                        | 9.88                  | 45.5                     | 200                       | 10                         | Peak    |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5700MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 144 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 53.79                         | 54.71                   | 68.2              | -14.41         | 34.78                        | 9.81                  | 45.51                    | 200                       | 50                         | Peak    |
| 5720                                                | 102.5                         | 103.07                  | /                 | /              | 35.06                        | 9.87                  | 45.5                     | 200                       | 50                         | Peak    |
| 5720                                                | 95.89                         | 96.46                   | /                 | /              | 35.06                        | 9.87                  | 45.5                     | 200                       | 50                         | Average |
| 5850                                                | 53.5                          | 53.86                   | 68.2              | -14.7          | 35.22                        | 9.92                  | 45.5                     | 200                       | 50                         | Peak    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 52.54                         | 53.64                   | 68.2              | -15.66         | 34.6                         | 9.81                  | 45.51                    | 200                       | 10                         | Peak    |
| 5720                                                | 99.61                         | 100.38                  | /                 | /              | 34.86                        | 9.87                  | 45.5                     | 200                       | 10                         | Peak    |
| 5720                                                | 94.04                         | 94.81                   | /                 | /              | 34.86                        | 9.87                  | 45.5                     | 200                       | 10                         | Average |
| 5850                                                | 53.38                         | 53.94                   | 68.2              | -14.82         | 35.02                        | 9.92                  | 45.5                     | 200                       | 10                         | Peak    |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5720MHz: Fundamental frequency.
- #: Out of restricted band.

802.11n (40MHz)

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 102 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.05                         | 54.98                   | 74                | -19.95         | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5460                                                | 48.23                         | 49.16                   | 54                | -5.77          | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Average |
| 5470                                                | 54.96                         | 55.88                   | 68.2              | -13.24         | 34.78                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5510                                                | 94.39                         | 95.28                   | /                 | /              | 34.81                        | 9.8                   | 45.5                     | 100                       | 285                        | Peak    |
| 5510                                                | 89.8                          | 90.69                   | /                 | /              | 34.81                        | 9.8                   | 45.5                     | 100                       | 285                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.11                         | 55.21                   | 74                | -19.89         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5460                                                | 48.73                         | 49.83                   | 54                | -5.27          | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Average |
| 5470                                                | 54.44                         | 55.54                   | 68.2              | -13.76         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5510                                                | 94.69                         | 95.78                   | /                 | /              | 34.61                        | 9.8                   | 45.5                     | 160                       | 0                          | Peak    |
| 5510                                                | 89.99                         | 91.08                   | /                 | /              | 34.61                        | 9.8                   | 45.5                     | 160                       | 0                          | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5510MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 110 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.11                         | 55.04                   | 74                | -19.89         | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5460                                                | 47.85                         | 48.78                   | 54                | -6.15          | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Average |
| 5470                                                | 53.46                         | 54.38                   | 68.2              | -14.74         | 34.78                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5550                                                | 94.21                         | 95.03                   | /                 | /              | 34.86                        | 9.82                  | 45.5                     | 100                       | 285                        | Peak    |
| 5550                                                | 89.83                         | 90.65                   | /                 | /              | 34.86                        | 9.82                  | 45.5                     | 100                       | 285                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.6                          | 55.7                    | 74                | -19.4          | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5460                                                | 47.88                         | 48.98                   | 54                | -6.12          | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Average |
| 5470                                                | 53.77                         | 54.87                   | 68.2              | -14.43         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5550                                                | 94.58                         | 95.6                    | /                 | /              | 34.66                        | 9.82                  | 45.5                     | 160                       | 0                          | Peak    |
| 5550                                                | 90.12                         | 91.14                   | /                 | /              | 34.66                        | 9.82                  | 45.5                     | 160                       | 0                          | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 134 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5670                                                | 93.44                         | 94.08                   | /                 | /              | 35                           | 9.86                  | 45.5                     | 100                       | 295                        | Peak    |
| 5670                                                | 89.81                         | 90.45                   | /                 | /              | 35                           | 9.86                  | 45.5                     | 100                       | 295                        | Average |
| 5725                                                | 54.68                         | 55.23                   | 68.2              | -13.52         | 35.07                        | 9.88                  | 45.5                     | 100                       | 295                        | Peak    |
| ANTENNA POLARITY & test distance: Vertical at 3 m   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5670                                                | 94.54                         | 95.38                   | /                 | /              | 34.8                         | 9.86                  | 45.5                     | 160                       | 0                          | Peak    |
| 5670                                                | 90.49                         | 91.33                   | /                 | /              | 34.8                         | 9.86                  | 45.5                     | 160                       | 0                          | Average |
| 5725                                                | 53.86                         | 54.61                   | 68.2              | -14.34         | 34.87                        | 9.88                  | 45.5                     | 160                       | 0                          | Peak    |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5670MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 142 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 53.7                          | 54.62                   | 68.2              | -14.5          | 34.78                        | 9.81                  | 45.51                    | 100                       | 295                        | Peak    |
| 5710                                                | 94.06                         | 94.64                   | /                 | /              | 35.05                        | 9.87                  | 45.5                     | 100                       | 295                        | Peak    |
| 5710                                                | 90.03                         | 90.61                   | /                 | /              | 35.05                        | 9.87                  | 45.5                     | 100                       | 295                        | Average |
| 5850                                                | 54.75                         | 55.11                   | 68.2              | -13.45         | 35.22                        | 9.92                  | 45.5                     | 100                       | 295                        | Peak    |
| ANTENNA POLARITY & test distance: Vertical at 3 m   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 53.29                         | 54.39                   | 68.2              | -14.91         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5710                                                | 95.02                         | 95.8                    | /                 | /              | 34.85                        | 9.87                  | 45.5                     | 160                       | 0                          | Peak    |
| 5710                                                | 91.47                         | 92.25                   | /                 | /              | 34.85                        | 9.87                  | 45.5                     | 160                       | 0                          | Average |
| 5850                                                | 55.56                         | 56.12                   | 68.2              | -12.64         | 35.02                        | 9.92                  | 45.5                     | 160                       | 0                          | Peak    |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.



## 802.11ac (20MHz)

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 100 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.42                         | 55.35                   | 74                | -19.58         | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5460                                                | 48.02                         | 48.95                   | 54                | -5.98          | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Average |
| 5470                                                | 54.68                         | 55.6                    | 68.2              | -13.52         | 34.78                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5500                                                | 99.09                         | 99.99                   | /                 | /              | 34.8                         | 9.8                   | 45.5                     | 100                       | 285                        | Peak    |
| 5500                                                | 92.78                         | 93.68                   | /                 | /              | 34.8                         | 9.8                   | 45.5                     | 100                       | 285                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.37                         | 55.47                   | 74                | -19.63         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5460                                                | 48.25                         | 49.35                   | 54                | -5.75          | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Average |
| 5470                                                | 54.91                         | 56.01                   | 68.2              | -13.29         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5500                                                | 99.77                         | 100.87                  | /                 | /              | 34.6                         | 9.8                   | 45.5                     | 160                       | 0                          | Peak    |
| 5500                                                | 93.81                         | 94.91                   | /                 | /              | 34.6                         | 9.8                   | 45.5                     | 160                       | 0                          | Average |

## REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 116 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 53.83                         | 54.76                   | 74                | -20.17         | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5460                                                | 47.43                         | 48.36                   | 54                | -6.57          | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Average |
| 5470                                                | 53.86                         | 54.78                   | 68.2              | -14.34         | 34.78                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5580                                                | 97.91                         | 98.68                   | /                 | /              | 34.9                         | 9.83                  | 45.5                     | 100                       | 285                        | Peak    |
| 5580                                                | 91.53                         | 92.3                    | /                 | /              | 34.9                         | 9.83                  | 45.5                     | 100                       | 285                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 55.37                         | 56.47                   | 74                | -18.63         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5460                                                | 48.03                         | 49.13                   | 54                | -5.97          | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Average |
| 5470                                                | 54.76                         | 55.86                   | 68.2              | -13.44         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5580                                                | 98.34                         | 99.31                   | /                 | /              | 34.7                         | 9.83                  | 45.5                     | 160                       | 0                          | Peak    |
| 5580                                                | 92.08                         | 93.05                   | /                 | /              | 34.7                         | 9.83                  | 45.5                     | 160                       | 0                          | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 140 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5700                                                | 99.12                         | 99.71                   | /                 | /              | 35.04                        | 9.87                  | 45.5                     | 100                       | 295                        | Peak    |
| 5700                                                | 92.47                         | 93.06                   | /                 | /              | 35.04                        | 9.87                  | 45.5                     | 100                       | 295                        | Average |
| 5725                                                | 55.15                         | 55.7                    | 68.2              | -13.05         | 35.07                        | 9.88                  | 45.5                     | 100                       | 295                        | Peak    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5700                                                | 99.8                          | 100.59                  | /                 | /              | 34.84                        | 9.87                  | 45.5                     | 160                       | 0                          | Peak    |
| 5700                                                | 93.6                          | 94.39                   | /                 | /              | 34.84                        | 9.87                  | 45.5                     | 160                       | 0                          | Average |
| 5725                                                | 55.38                         | 56.13                   | 68.2              | -12.82         | 34.87                        | 9.88                  | 45.5                     | 160                       | 0                          | Peak    |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 144 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 53.66                         | 54.58                   | 68.2              | -14.54         | 34.78                        | 9.81                  | 45.51                    | 100                       | 295                        | Peak    |
| 5720                                                | 98.98                         | 99.55                   | /                 | /              | 35.06                        | 9.87                  | 45.5                     | 100                       | 295                        | Peak    |
| 5720                                                | 92.48                         | 93.05                   | /                 | /              | 35.06                        | 9.87                  | 45.5                     | 100                       | 295                        | Average |
| 5850                                                | 55.3                          | 55.66                   | 68.2              | -12.9          | 35.22                        | 9.92                  | 45.5                     | 100                       | 295                        | Peak    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 55.67                         | 56.77                   | 68.2              | -12.53         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5720                                                | 100.25                        | 101.02                  | /                 | /              | 34.86                        | 9.87                  | 45.5                     | 160                       | 0                          | Peak    |
| 5720                                                | 93.85                         | 94.62                   | /                 | /              | 34.86                        | 9.87                  | 45.5                     | 160                       | 0                          | Average |
| 5850                                                | 54.62                         | 55.18                   | 68.2              | -13.58         | 35.02                        | 9.92                  | 45.5                     | 160                       | 0                          | Peak    |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5720MHz: Fundamental frequency.
- #: Out of restricted band.

802.11ac (40MHz)

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 102 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.15                         | 55.08                   | 74                | -19.85         | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5460                                                | 48.46                         | 49.39                   | 54                | -5.54          | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Average |
| 5470                                                | 54.47                         | 55.39                   | 68.2              | -13.73         | 34.78                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5510                                                | 94.69                         | 95.58                   | /                 | /              | 34.81                        | 9.8                   | 45.5                     | 100                       | 285                        | Peak    |
| 5510                                                | 90.51                         | 91.4                    | /                 | /              | 34.81                        | 9.8                   | 45.5                     | 100                       | 285                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 53.98                         | 55.08                   | 74                | -20.02         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5460                                                | 47.85                         | 48.95                   | 54                | -6.15          | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Average |
| 5470                                                | 55.25                         | 56.35                   | 68.2              | -12.95         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5510                                                | 94.89                         | 95.98                   | /                 | /              | 34.61                        | 9.8                   | 45.5                     | 160                       | 0                          | Peak    |
| 5510                                                | 90.49                         | 91.58                   | /                 | /              | 34.61                        | 9.8                   | 45.5                     | 160                       | 0                          | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 110 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.35                         | 55.28                   | 74                | -19.65         | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5460                                                | 48.83                         | 49.76                   | 54                | -5.17          | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Average |
| 5470                                                | 55.45                         | 56.37                   | 68.2              | -12.75         | 34.78                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5550                                                | 93.82                         | 94.64                   | /                 | /              | 34.86                        | 9.82                  | 45.5                     | 100                       | 285                        | Peak    |
| 5550                                                | 89.76                         | 90.58                   | /                 | /              | 34.86                        | 9.82                  | 45.5                     | 100                       | 285                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 55.21                         | 56.31                   | 74                | -18.79         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5460                                                | 48.37                         | 49.47                   | 54                | -5.63          | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Average |
| 5470                                                | 54.02                         | 55.12                   | 68.2              | -14.18         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5550                                                | 94.7                          | 95.72                   | /                 | /              | 34.66                        | 9.82                  | 45.5                     | 160                       | 0                          | Peak    |
| 5550                                                | 90.33                         | 91.35                   | /                 | /              | 34.66                        | 9.82                  | 45.5                     | 160                       | 0                          | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 134 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5670                                                | 93.71                         | 94.35                   | /                 | /              | 35                           | 9.86                  | 45.5                     | 100                       | 295                        | Peak    |
| 5670                                                | 89.87                         | 90.51                   | /                 | /              | 35                           | 9.86                  | 45.5                     | 100                       | 295                        | Average |
| 5725                                                | 53.99                         | 54.54                   | 68.2              | -14.21         | 35.07                        | 9.88                  | 45.5                     | 100                       | 295                        | Peak    |
| ANTENNA POLARITY & test distance: Vertical at 3 m   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5670                                                | 94.17                         | 95.01                   | /                 | /              | 34.8                         | 9.86                  | 45.5                     | 160                       | 0                          | Peak    |
| 5670                                                | 90.57                         | 91.41                   | /                 | /              | 34.8                         | 9.86                  | 45.5                     | 160                       | 0                          | Average |
| 5725                                                | 54.62                         | 55.37                   | 68.2              | -13.58         | 34.87                        | 9.88                  | 45.5                     | 160                       | 0                          | Peak    |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5670MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 142 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 53.55                         | 54.47                   | 68.2              | -14.65         | 34.78                        | 9.81                  | 45.51                    | 100                       | 295                        | Peak    |
| 5710                                                | 93.62                         | 94.2                    | /                 | /              | 35.05                        | 9.87                  | 45.5                     | 100                       | 295                        | Peak    |
| 5710                                                | 90.03                         | 90.61                   | /                 | /              | 35.05                        | 9.87                  | 45.5                     | 100                       | 295                        | Average |
| 5850                                                | 54.74                         | 55.1                    | 68.2              | -13.46         | 35.22                        | 9.92                  | 45.5                     | 100                       | 295                        | Peak    |
| ANTENNA POLARITY & test distance: Vertical at 3 m   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 53.99                         | 55.09                   | 68.2              | -14.21         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5710                                                | 95.11                         | 95.89                   | /                 | /              | 34.85                        | 9.87                  | 45.5                     | 160                       | 0                          | Peak    |
| 5710                                                | 91.25                         | 92.03                   | /                 | /              | 34.85                        | 9.87                  | 45.5                     | 160                       | 0                          | Average |
| 5850                                                | 55.14                         | 55.7                    | 68.2              | -13.06         | 35.02                        | 9.92                  | 45.5                     | 160                       | 0                          | Peak    |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.

**802.11ac (80MHz)**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 106 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 56.07                         | 57                      | 74                | -17.93         | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5460                                                | 50.76                         | 51.69                   | 54                | -3.24          | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Average |
| 5470                                                | 55.5                          | 56.42                   | 68.2              | -12.7          | 34.78                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5530                                                | 91.92                         | 92.77                   | /                 | /              | 34.84                        | 9.81                  | 45.5                     | 100                       | 285                        | Peak    |
| 5530                                                | 86.51                         | 87.36                   | /                 | /              | 34.84                        | 9.81                  | 45.5                     | 100                       | 285                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 56.34                         | 57.44                   | 74                | -17.66         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5460                                                | 50.96                         | 52.06                   | 54                | -3.04          | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Average |
| 5470                                                | 57.77                         | 58.87                   | 68.2              | -10.43         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5530                                                | 92.18                         | 93.23                   | /                 | /              | 34.64                        | 9.81                  | 45.5                     | 160                       | 0                          | Peak    |
| 5530                                                | 87.01                         | 88.06                   | /                 | /              | 34.64                        | 9.81                  | 45.5                     | 160                       | 0                          | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 122 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 54.8                          | 55.73                   | 74                | -19.2          | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5460                                                | 47.6                          | 48.53                   | 54                | -6.4           | 34.77                        | 9.81                  | 45.51                    | 100                       | 285                        | Average |
| 5470                                                | 53.25                         | 54.17                   | 68.2              | -14.95         | 34.78                        | 9.81                  | 45.51                    | 100                       | 285                        | Peak    |
| 5610                                                | 89.8                          | 90.53                   | /                 | /              | 34.93                        | 9.84                  | 45.5                     | 100                       | 285                        | Peak    |
| 5610                                                | 86.52                         | 87.25                   | /                 | /              | 34.93                        | 9.84                  | 45.5                     | 100                       | 285                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5460                                                | 53.51                         | 54.61                   | 74                | -20.49         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5460                                                | 48.04                         | 49.14                   | 54                | -5.96          | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Average |
| 5470                                                | 53.29                         | 54.39                   | 68.2              | -14.91         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5610                                                | 90.3                          | 91.23                   | /                 | /              | 34.73                        | 9.84                  | 45.5                     | 160                       | 0                          | Peak    |
| 5610                                                | 86.46                         | 87.39                   | /                 | /              | 34.73                        | 9.84                  | 45.5                     | 160                       | 0                          | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5610MHz: Fundamental frequency.
- #: Out of restricted band.

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 138 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 54.05                         | 54.97                   | 68.2              | -14.15         | 34.78                        | 9.81                  | 45.51                    | 100                       | 295                        | Peak    |
| 5690                                                | 91.08                         | 91.69                   | /                 | /              | 35.03                        | 9.86                  | 45.5                     | 100                       | 295                        | Peak    |
| 5690                                                | 86.93                         | 87.54                   | /                 | /              | 35.03                        | 9.86                  | 45.5                     | 100                       | 295                        | Average |
| 5850                                                | 57.51                         | 57.87                   | 68.2              | -10.69         | 35.22                        | 9.92                  | 45.5                     | 100                       | 295                        | Peak    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5470                                                | 55.51                         | 56.61                   | 68.2              | -12.69         | 34.6                         | 9.81                  | 45.51                    | 160                       | 0                          | Peak    |
| 5690                                                | 90.8                          | 91.61                   | /                 | /              | 34.83                        | 9.86                  | 45.5                     | 160                       | 0                          | Peak    |
| 5690                                                | 87.85                         | 88.66                   | /                 | /              | 34.83                        | 9.86                  | 45.5                     | 160                       | 0                          | Average |
| 5850                                                | 55.21                         | 55.77                   | 68.2              | -12.99         | 35.02                        | 9.92                  | 45.5                     | 160                       | 0                          | Peak    |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5690MHz: Fundamental frequency.
- #: Out of restricted band.



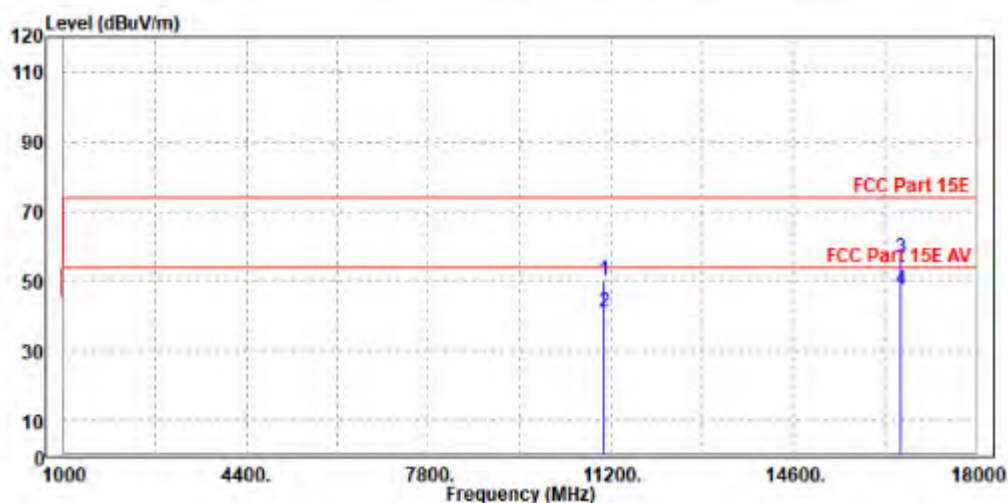
802.11ac (80MHz)

Worst case harmonic:

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 106 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

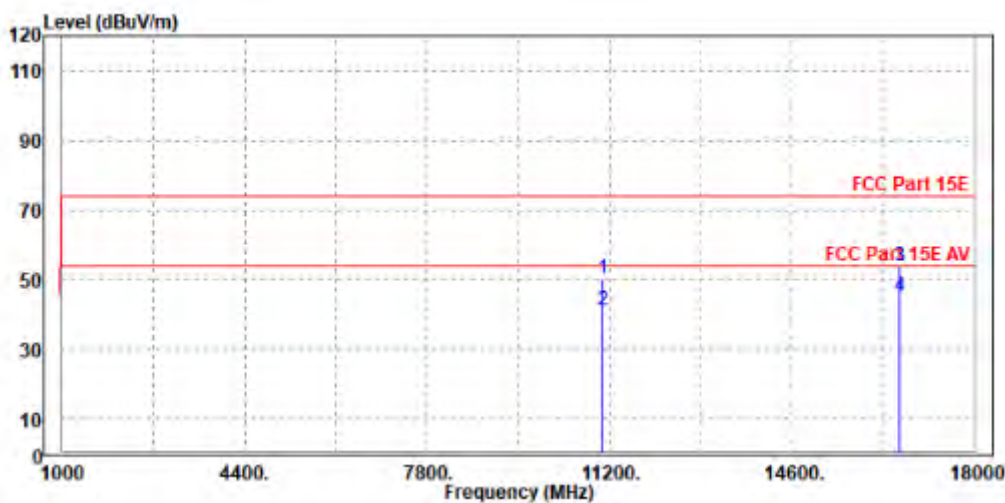
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark  | Pol/Phase  |
|---|-------------|--------|------------|------------|------------|--------|---------|------------|
|   | MHz         | dBuV/m | dBuV       | dBuV/m     | dB         | dB/m   |         |            |
| 1 | 11060.000   | 50.06  | 42.94      | 74.00      | -23.94     | 7.12   | Peak    | Horizontal |
| 2 | 11060.000   | 40.95  | 33.83      | 54.00      | -13.05     | 7.12   | Average | Horizontal |
| 3 | PK16589.000 | 56.52  | 40.49      | 74.00      | -17.48     | 16.03  | Peak    | Horizontal |
| 4 | PP16589.000 | 47.26  | 31.23      | 54.00      | -6.74      | 16.03  | Average | Horizontal |



**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

|   | Freq        | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark  | Pol/Phase |
|---|-------------|--------|---------------|---------------|---------------|--------|---------|-----------|
|   | MHz         | dBuV/m | dBuV          | dBuV/m        | dB            | dB/m   |         |           |
| 1 | 11064.000   | 50.38  | 42.81         | 74.00         | -23.62        | 7.57   | Peak    | Vertical  |
| 2 | 11064.000   | 41.13  | 33.56         | 54.00         | -12.87        | 7.57   | Average | Vertical  |
| 3 | PK16590.000 | 53.85  | 39.70         | 74.00         | -20.15        | 14.15  | Peak    | Vertical  |
| 4 | PP16590.000 | 44.96  | 30.81         | 54.00         | -9.04         | 14.15  | Average | Vertical  |



**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

**Band 4:**

**802.11a**

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 149 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5745                                                | 102.21                        | 102.74                  | /                 | /              | 35.09                        | 9.88                  | 45.5                     | 100                       | 55                         | Peak    |
| 5745                                                | 95.53                         | 96.06                   | /                 | /              | 35.09                        | 9.88                  | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5745                                                | 102.28                        | 103.01                  | /                 | /              | 34.89                        | 9.88                  | 45.5                     | 160                       | 355                        | Peak    |
| 5745                                                | 95.22                         | 95.95                   | /                 | /              | 34.89                        | 9.88                  | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.

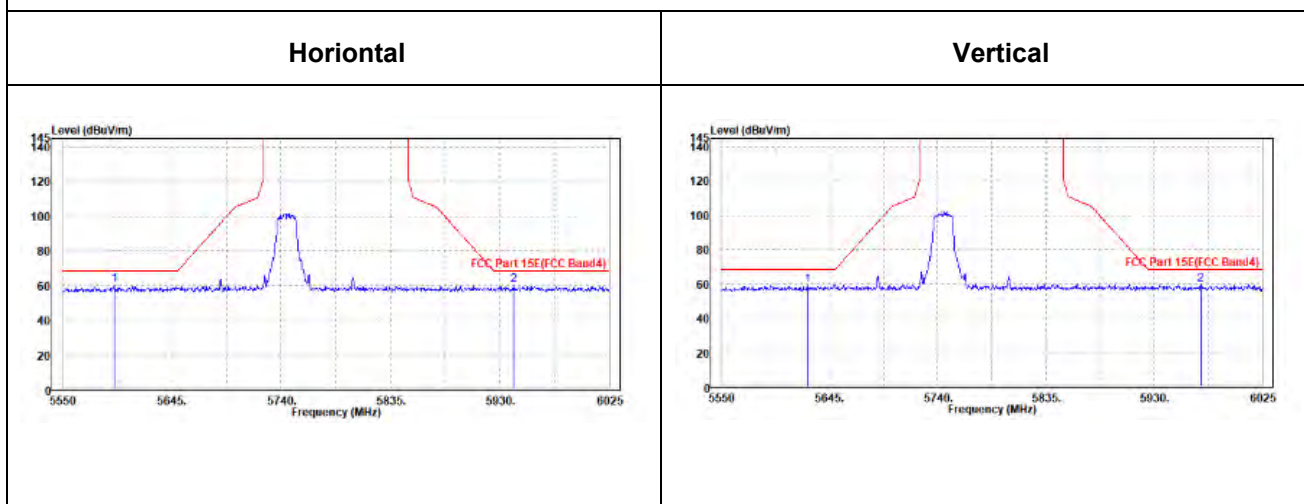


# OOBE DATA

802.11a

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5594.65                                             | 60.13                         | 60.89                   | 68.2              | -8.07          | 34.91                        | 9.83                  | 45.5                     | 100                       | 360                        | Peak   |
| 5942.35                                             | 60.14                         | 60.36                   | 68.2              | -8.06          | 35.33                        | 9.95                  | 45.5                     | 100                       | 360                        | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5625.525                                            | 59.21                         | 60.12                   | 68.2              | -8.99          | 34.75                        | 9.84                  | 45.5                     | 200                       | 0                          | Peak   |
| 5971.325                                            | 59.47                         | 59.84                   | 68.2              | -8.73          | 35.17                        | 9.96                  | 45.5                     | 200                       | 0                          | Peak   |

## CH 149





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 157 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5785                                                | 102.62                        | 103.08                  | /                 | /              | 35.14                        | 9.9                   | 45.5                     | 100                       | 55                         | Peak    |
| 5785                                                | 95.81                         | 96.27                   | /                 | /              | 35.14                        | 9.9                   | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5785                                                | 102.89                        | 103.55                  | /                 | /              | 34.94                        | 9.9                   | 45.5                     | 160                       | 355                        | Peak    |
| 5785                                                | 96.13                         | 96.79                   | /                 | /              | 34.94                        | 9.9                   | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.

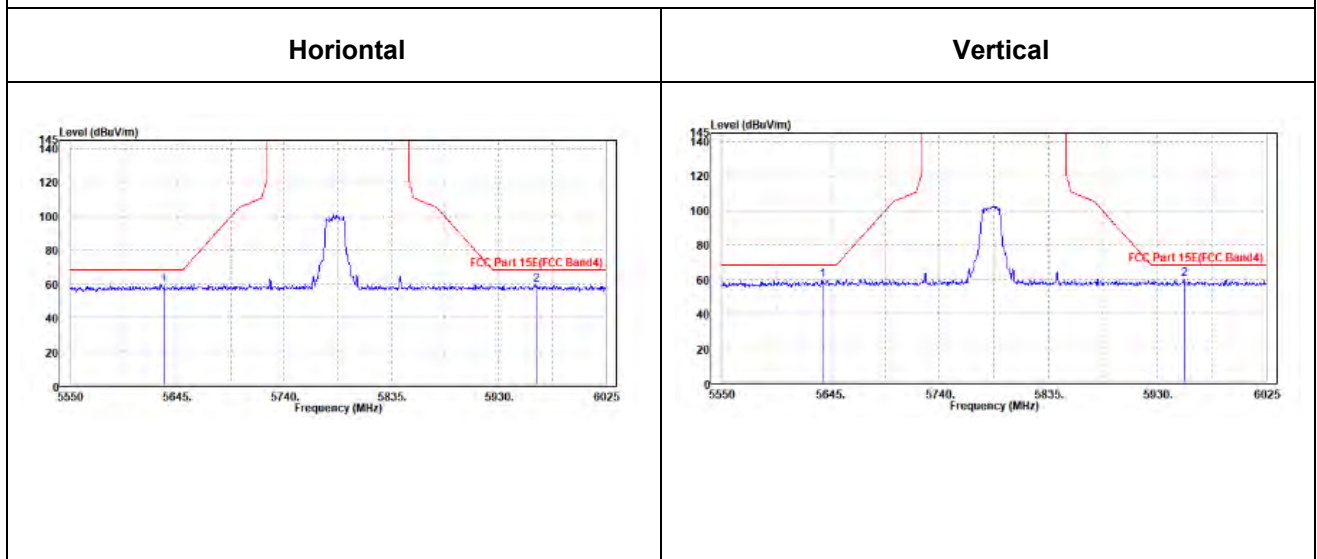


## Oobe Data

802.11a

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5633.125                                            | 59.11                         | 59.8                    | 68.2              | -9.09          | 34.96                        | 9.85                  | 45.5                     | 100                       | 0                          | Peak   |
| 5963.25                                             | 59.45                         | 59.63                   | 68.2              | -8.75          | 35.36                        | 9.96                  | 45.5                     | 100                       | 0                          | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5637.875                                            | 59.51                         | 60.39                   | 68.2              | -8.69          | 34.77                        | 9.85                  | 45.5                     | 100                       | 360                        | Peak   |
| 5953.275                                            | 59.98                         | 60.39                   | 68.2              | -8.22          | 35.14                        | 9.95                  | 45.5                     | 100                       | 360                        | Peak   |

## CH 157





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 165 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5825                                                | 103.74                        | 104.14                  | /                 | /              | 35.19                        | 9.91                  | 45.5                     | 100                       | 55                         | Peak    |
| 5825                                                | 96.59                         | 96.99                   | /                 | /              | 35.19                        | 9.91                  | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5825                                                | 102.2                         | 102.8                   | /                 | /              | 34.99                        | 9.91                  | 45.5                     | 160                       | 355                        | Peak    |
| 5825                                                | 95.9                          | 96.5                    | /                 | /              | 34.99                        | 9.91                  | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.

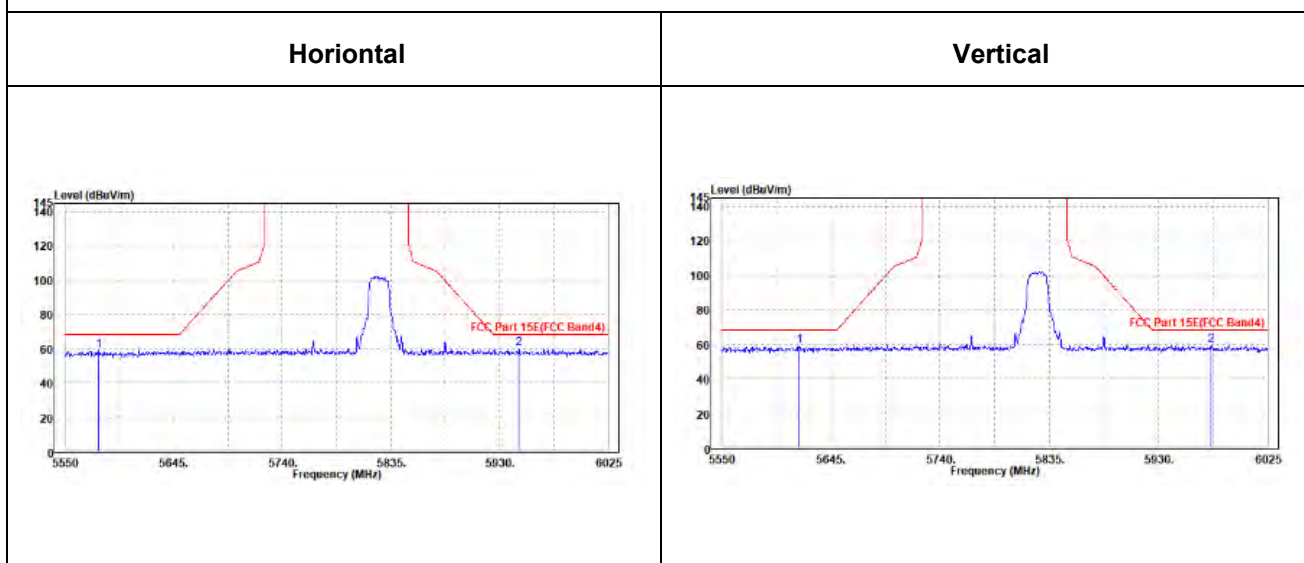


# OOBE DATA

802.11a

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5578.975                                            | 59.05                         | 59.83                   | 68.2              | -9.15          | 34.89                        | 9.83                  | 45.5                     | 100                       | 360                        | Peak   |
| 5947.1                                              | 59.85                         | 60.06                   | 68.2              | -8.35          | 35.34                        | 9.95                  | 45.5                     | 100                       | 360                        | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5617.45                                             | 58.78                         | 59.7                    | 68.2              | -9.42          | 34.74                        | 9.84                  | 45.5                     | 200                       | 0                          | Peak   |
| 5975.6                                              | 59.32                         | 59.69                   | 68.2              | -8.88          | 35.17                        | 9.96                  | 45.5                     | 200                       | 0                          | Peak   |

## CH 165





**802.11n (20MHz)**

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 149 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5745                                                | 101.27                        | 101.8                   | /                 | /              | 35.09                        | 9.88                  | 45.5                     | 100                       | 55                         | Peak    |
| 5745                                                | 95.15                         | 95.68                   | /                 | /              | 35.09                        | 9.88                  | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5745                                                | 101.51                        | 102.24                  | /                 | /              | 34.89                        | 9.88                  | 45.5                     | 160                       | 355                        | Peak    |
| 5745                                                | 95.15                         | 95.88                   | /                 | /              | 34.89                        | 9.88                  | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.

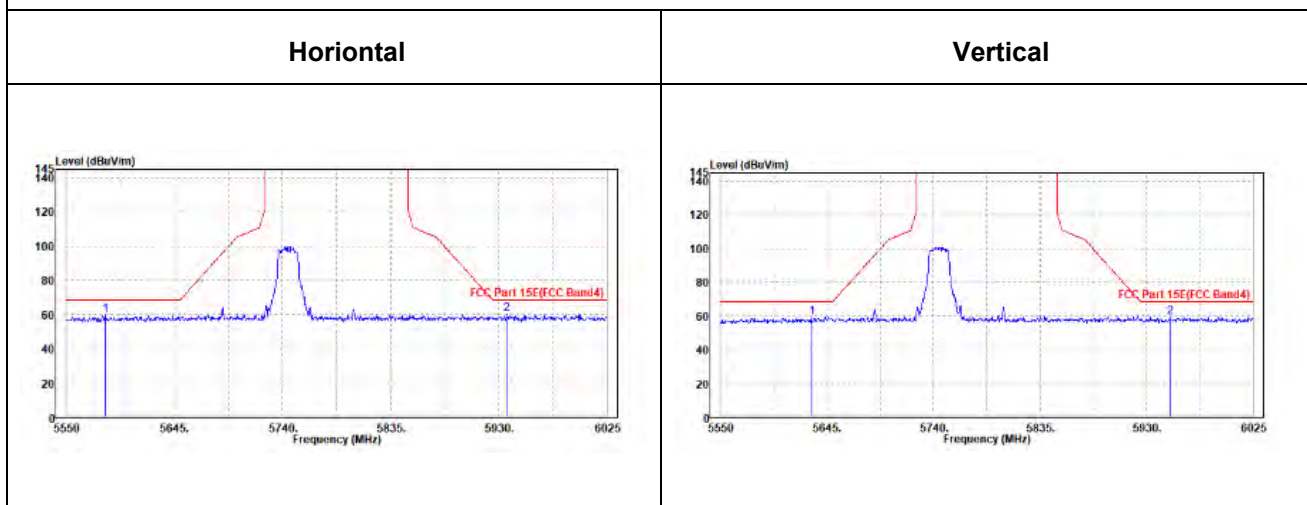


# OOBE DATA

802.11n (20MHZ)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5584.2                                              | 59.34                         | 60.11                   | 68.2              | -8.86          | 34.9                         | 9.83                  | 45.5                     | 100                       | 0                          | Peak   |
| 5936.65                                             | 59.86                         | 60.09                   | 68.2              | -8.34          | 35.32                        | 9.95                  | 45.5                     | 100                       | 0                          | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5631.225                                            | 59.07                         | 59.97                   | 68.2              | -9.13          | 34.76                        | 9.84                  | 45.5                     | 100                       | 360                        | Peak   |
| 5951.375                                            | 59.2                          | 59.61                   | 68.2              | -9             | 35.14                        | 9.95                  | 45.5                     | 100                       | 360                        | Peak   |

## CH 149





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 157 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5785                                                | 101.75                        | 102.21                  | /                 | /              | 35.14                        | 9.9                   | 45.5                     | 100                       | 55                         | Peak    |
| 5785                                                | 95.67                         | 96.13                   | /                 | /              | 35.14                        | 9.9                   | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5785                                                | 101.95                        | 102.61                  | /                 | /              | 34.94                        | 9.9                   | 45.5                     | 160                       | 355                        | Peak    |
| 5785                                                | 96.19                         | 96.85                   | /                 | /              | 34.94                        | 9.9                   | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.

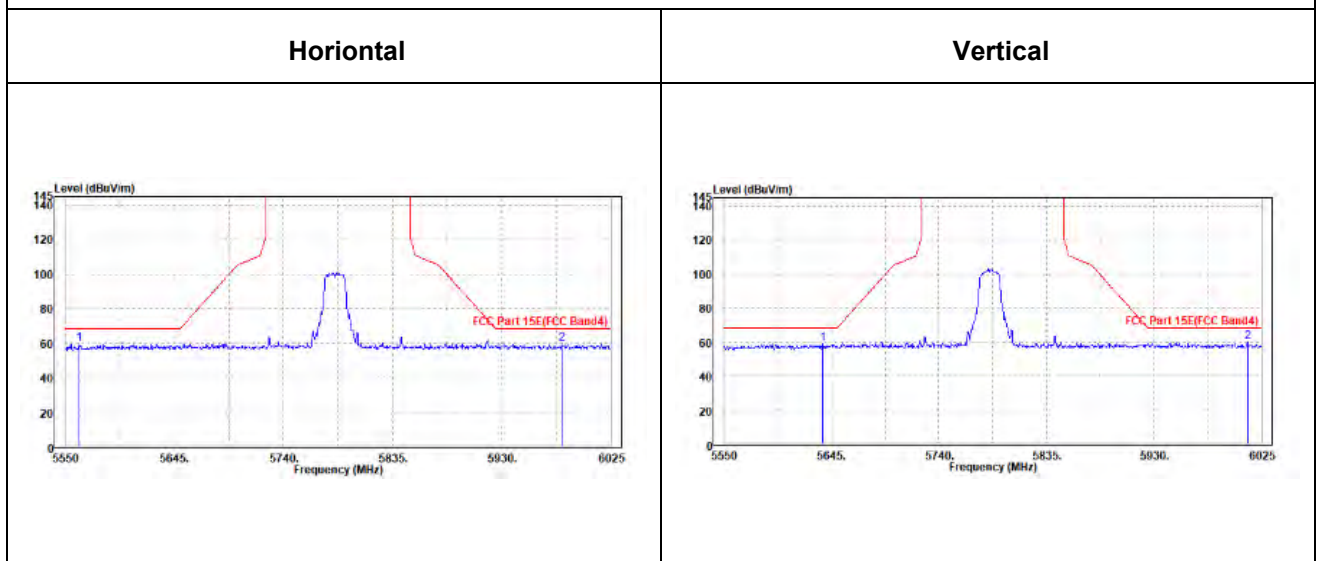


**Oobe Data**

802.11n (20MHz)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                       |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-----------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ. (MHz)                                         | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV<br>/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5562.35                                             | 59.31                         | 60.12                   | 68.2                  | -8.89          | 34.87                        | 9.82                  | 45.5                     | 100                       | 360                        | Peak   |
| 5982.25                                             | 59.4                          | 59.56                   | 68.2                  | -8.8           | 35.38                        | 9.96                  | 45.5                     | 100                       | 360                        | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                       |                |                              |                       |                          |                           |                            |        |
| FREQ. (MHz)                                         | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV<br>/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5636.925                                            | 59.2                          | 60.09                   | 68.2                  | -9             | 34.76                        | 9.85                  | 45.5                     | 200                       | 0                          | Peak   |
| 6012.65                                             | 60.17                         | 60.47                   | 68.2                  | -8.03          | 35.22                        | 9.98                  | 45.5                     | 200                       | 0                          | Peak   |

**CH 157**





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 165 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5825                                                | 102.45                        | 102.85                  | /                 | /              | 35.19                        | 9.91                  | 45.5                     | 100                       | 55                         | Peak    |
| 5825                                                | 95.87                         | 96.27                   | /                 | /              | 35.19                        | 9.91                  | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5825                                                | 101.7                         | 102.3                   | /                 | /              | 34.99                        | 9.91                  | 45.5                     | 160                       | 355                        | Peak    |
| 5825                                                | 95.76                         | 96.36                   | /                 | /              | 34.99                        | 9.91                  | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.

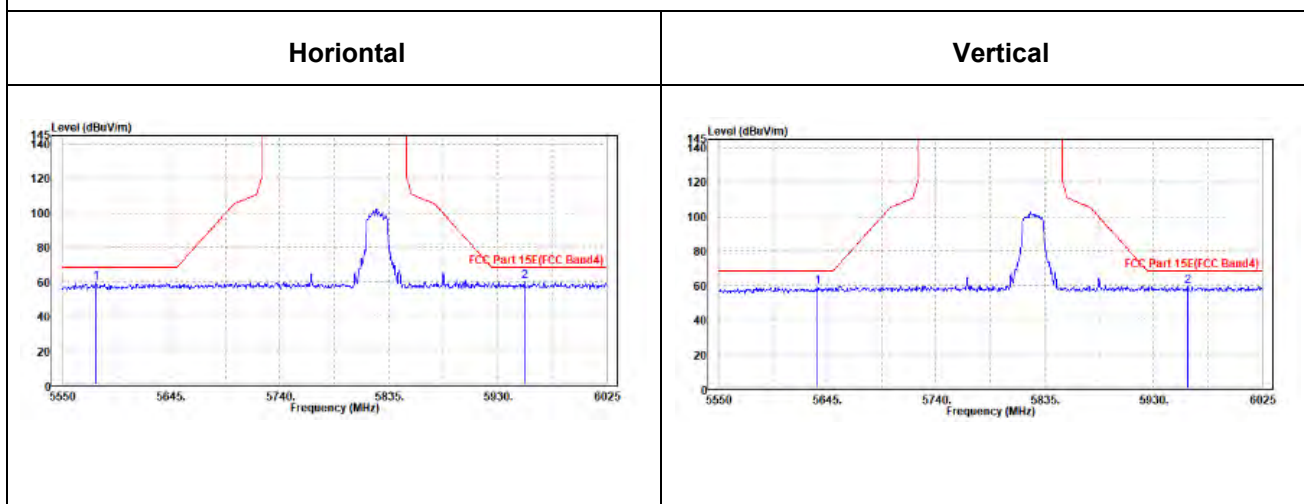


# OOBE DATA

802.11n (20MHz)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5579.45                                             | 59.3                          | 60.07                   | 68.2              | -8.9           | 34.9                         | 9.83                  | 45.5                     | 100                       | 0                          | Peak   |
| 5953.275                                            | 60.08                         | 60.29                   | 68.2              | -8.12          | 35.34                        | 9.95                  | 45.5                     | 100                       | 0                          | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5635.975                                            | 59.23                         | 60.12                   | 68.2              | -8.97          | 34.76                        | 9.85                  | 45.5                     | 100                       | 360                        | Peak   |
| 5960.4                                              | 59.59                         | 59.98                   | 68.2              | -8.61          | 35.15                        | 9.96                  | 45.5                     | 100                       | 360                        | Peak   |

## CH 165





**802.11n (40MHz)**

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 151 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5755                                                | 96.16                         | 96.66                   | /                 | /              | 35.11                        | 9.89                  | 45.5                     | 100                       | 55                         | Peak    |
| 5755                                                | 92.4                          | 92.9                    | /                 | /              | 35.11                        | 9.89                  | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5755                                                | 96.72                         | 97.42                   | /                 | /              | 34.91                        | 9.89                  | 45.5                     | 160                       | 355                        | Peak    |
| 5755                                                | 92.58                         | 93.28                   | /                 | /              | 34.91                        | 9.89                  | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5755MHz: Fundamental frequency.

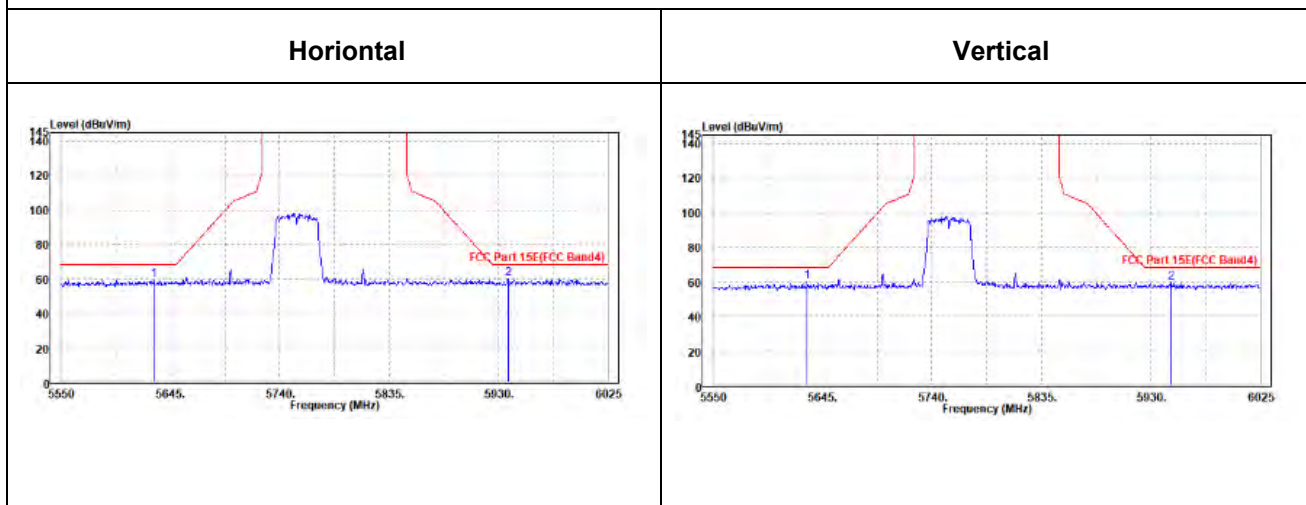


# OOBE DATA

802.11n (40MHZ)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5630.75                                             | 59.46                         | 60.16                   | 68.2              | -8.74          | 34.96                        | 9.84                  | 45.5                     | 200                       | 360                        | Peak   |
| 5938.55                                             | 60.23                         | 60.45                   | 68.2              | -7.97          | 35.33                        | 9.95                  | 45.5                     | 200                       | 360                        | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5631.7                                              | 60.08                         | 60.98                   | 68.2              | -8.12          | 34.76                        | 9.84                  | 45.5                     | 100                       | 0                          | Peak   |
| 5947.575                                            | 59.4                          | 59.81                   | 68.2              | -8.8           | 35.14                        | 9.95                  | 45.5                     | 100                       | 0                          | Peak   |

## CH 151





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 159 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5795                                                | 98.43                         | 98.88                   | /                 | /              | 35.15                        | 9.9                   | 45.5                     | 100                       | 55                         | Peak    |
| 5795                                                | 93.96                         | 94.41                   | /                 | /              | 35.15                        | 9.9                   | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5795                                                | 98.06                         | 98.71                   | /                 | /              | 34.95                        | 9.9                   | 45.5                     | 160                       | 355                        | Peak    |
| 5795                                                | 93.73                         | 94.38                   | /                 | /              | 34.95                        | 9.9                   | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5795MHz: Fundamental frequency.



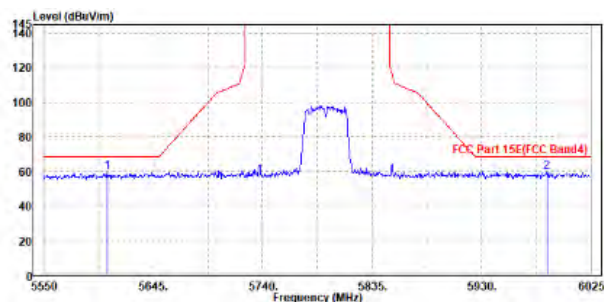
# OOBE DATA

802.11n (40MHZ)

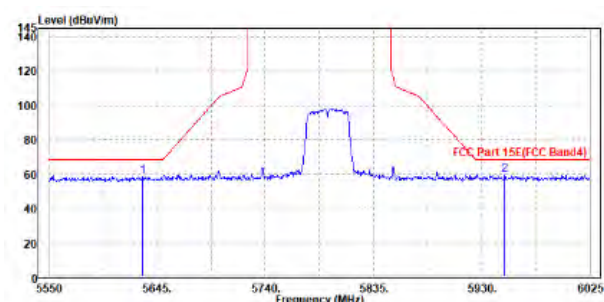
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5604.625                                            | 59.8                          | 60.53                   | 68.2              | -8.4           | 34.93                        | 9.84                  | 45.5                     | 100                       | 0                          | Peak   |
| 5987                                                | 59.67                         | 59.82                   | 68.2              | -8.53          | 35.38                        | 9.97                  | 45.5                     | 100                       | 0                          | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5632.175                                            | 58.53                         | 59.43                   | 68.2              | -9.67          | 34.76                        | 9.84                  | 45.5                     | 100                       | 360                        | Peak   |
| 5950.425                                            | 59.32                         | 59.73                   | 68.2              | -8.88          | 35.14                        | 9.95                  | 45.5                     | 100                       | 360                        | Peak   |

## CH 159

Horizontal



Vertical





**802.11ac (20MHz)**

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 149 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5745                                                | 101.46                        | 101.99                  | /                 | /              | 35.09                        | 9.88                  | 45.5                     | 100                       | 55                         | Peak    |
| 5745                                                | 94.91                         | 95.44                   | /                 | /              | 35.09                        | 9.88                  | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5745                                                | 101.25                        | 101.98                  | /                 | /              | 34.89                        | 9.88                  | 45.5                     | 160                       | 355                        | Peak    |
| 5745                                                | 94.56                         | 95.29                   | /                 | /              | 34.89                        | 9.88                  | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.

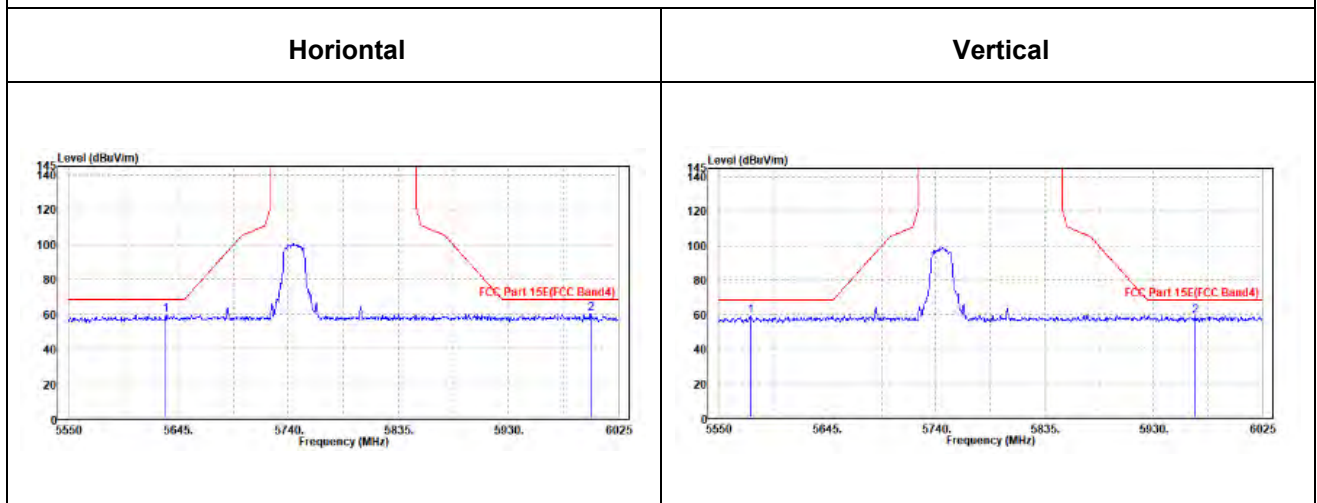


**Oobe Data**

802.11ac (20MHz)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5634.075                                            | 59.65                         | 60.34                   | 68.2              | -8.55          | 34.96                        | 9.85                  | 45.5                     | 100                       | 360                        | Peak   |
| 6001.25                                             | 60.11                         | 60.24                   | 68.2              | -8.09          | 35.4                         | 9.97                  | 45.5                     | 100                       | 360                        | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5578.025                                            | 58.96                         | 59.94                   | 68.2              | -9.24          | 34.69                        | 9.83                  | 45.5                     | 100                       | 0                          | Peak   |
| 5967.05                                             | 59.25                         | 59.63                   | 68.2              | -8.95          | 35.16                        | 9.96                  | 45.5                     | 100                       | 0                          | Peak   |

**CH 149**





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 157 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5785                                                | 101.66                        | 102.12                  | /                 | /              | 35.14                        | 9.9                   | 45.5                     | 100                       | 55                         | Peak    |
| 5785                                                | 95.57                         | 96.03                   | /                 | /              | 35.14                        | 9.9                   | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5785                                                | 101.78                        | 102.44                  | /                 | /              | 34.94                        | 9.9                   | 45.5                     | 160                       | 355                        | Peak    |
| 5785                                                | 95.59                         | 96.25                   | /                 | /              | 34.94                        | 9.9                   | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.

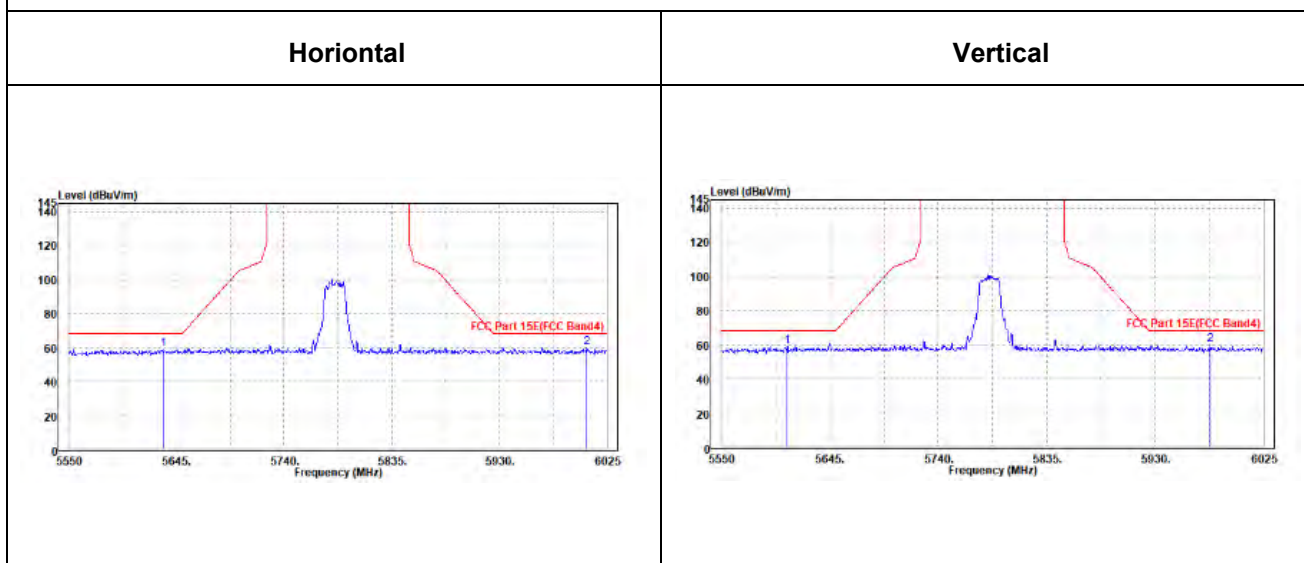


# OOBE DATA

802.11ac (20MHZ)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                       |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-----------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ. (MHz)                                         | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV<br>/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5632.65                                             | 59.26                         | 59.95                   | 68.2                  | -8.94          | 34.96                        | 9.85                  | 45.5                     | 160                       | 0                          | Peak   |
| 6007.425                                            | 59.95                         | 60.07                   | 68.2                  | -8.25          | 35.4                         | 9.98                  | 45.5                     | 160                       | 0                          | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                       |                |                              |                       |                          |                           |                            |        |
| FREQ. (MHz)                                         | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV<br>/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5607.475                                            | 59.24                         | 60.17                   | 68.2                  | -8.96          | 34.73                        | 9.84                  | 45.5                     | 100                       | 360                        | Peak   |
| 5978.45                                             | 60.04                         | 60.41                   | 68.2                  | -8.16          | 35.17                        | 9.96                  | 45.5                     | 100                       | 360                        | Peak   |

## CH 157





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 165 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5825                                                | 102.22                        | 102.62                  | /                 | /              | 35.19                        | 9.91                  | 45.5                     | 100                       | 55                         | Peak    |
| 5825                                                | 96.18                         | 96.58                   | /                 | /              | 35.19                        | 9.91                  | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5825                                                | 101.79                        | 102.39                  | /                 | /              | 34.99                        | 9.91                  | 45.5                     | 160                       | 355                        | Peak    |
| 5825                                                | 95.49                         | 96.09                   | /                 | /              | 34.99                        | 9.91                  | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.

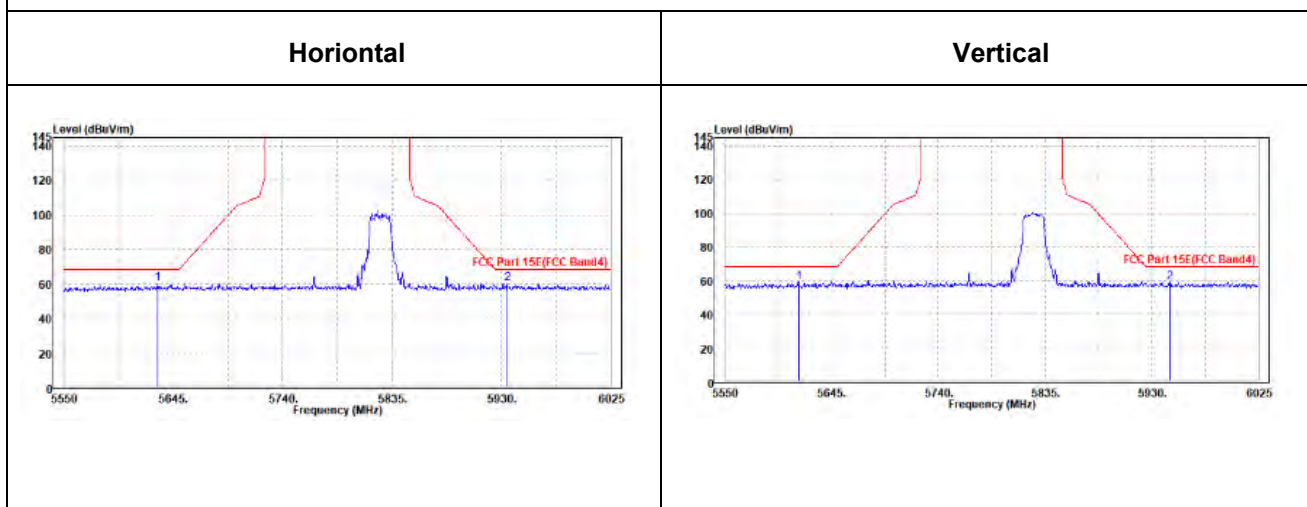


# OOBE DATA

802.11ac (20MHZ)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5631.7                                              | 60.27                         | 60.97                   | 68.2              | -7.93          | 34.96                        | 9.84                  | 45.5                     | 100                       | 0                          | Peak   |
| 5935.225                                            | 60.09                         | 60.32                   | 68.2              | -8.11          | 35.32                        | 9.95                  | 45.5                     | 100                       | 0                          | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5615.55                                             | 59.17                         | 60.09                   | 68.2              | -9.03          | 34.74                        | 9.84                  | 45.5                     | 100                       | 360                        | Peak   |
| 5946.15                                             | 59.04                         | 59.45                   | 68.2              | -9.16          | 35.14                        | 9.95                  | 45.5                     | 100                       | 360                        | Peak   |

## CH 165





**802.11ac (40MHz)**

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 151 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5755                                                | 96.29                         | 96.79                   | /                 | /              | 35.11                        | 9.89                  | 45.5                     | 100                       | 55                         | Peak    |
| 5755                                                | 92.5                          | 93                      | /                 | /              | 35.11                        | 9.89                  | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5755                                                | 96.29                         | 96.99                   | /                 | /              | 34.91                        | 9.89                  | 45.5                     | 160                       | 355                        | Peak    |
| 5755                                                | 92.49                         | 93.19                   | /                 | /              | 34.91                        | 9.89                  | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5755MHz: Fundamental frequency.

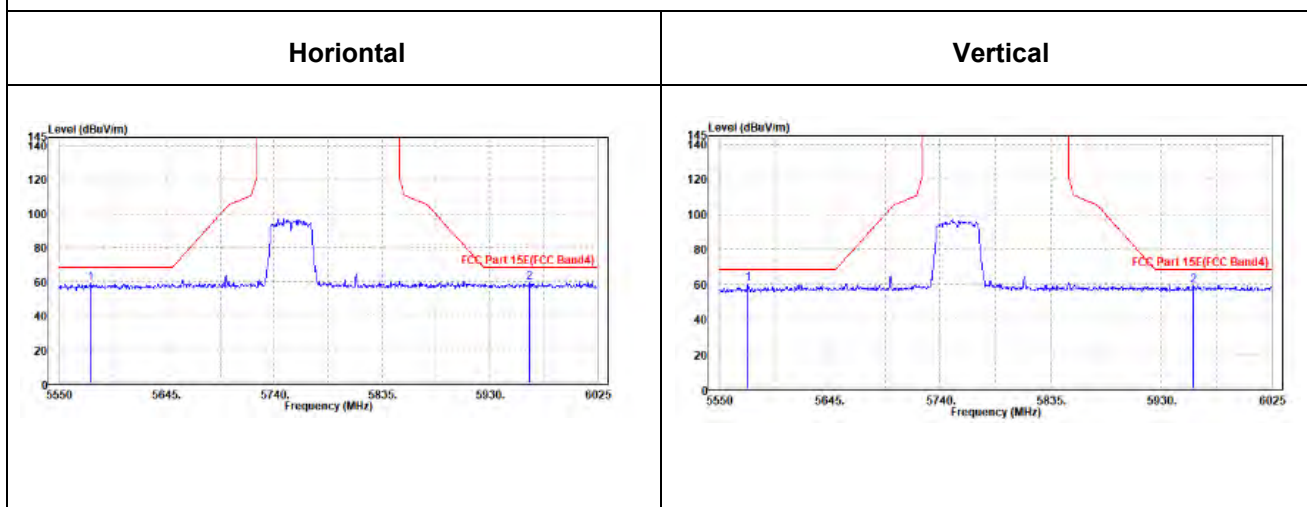


# OOBE DATA

802.11ac (40MHZ)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5578.025                                            | 58.95                         | 59.73                   | 68.2              | -9.25          | 34.89                        | 9.83                  | 45.5                     | 100                       | 360                        | Peak   |
| 5965.15                                             | 59.66                         | 59.84                   | 68.2              | -8.54          | 35.36                        | 9.96                  | 45.5                     | 100                       | 360                        | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5574.7                                              | 59.91                         | 60.89                   | 68.2              | -8.29          | 34.69                        | 9.83                  | 45.5                     | 100                       | 0                          | Peak   |
| 5957.55                                             | 59.03                         | 59.42                   | 68.2              | -9.17          | 35.15                        | 9.96                  | 45.5                     | 100                       | 0                          | Peak   |

## CH 151





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 159 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5795                                                | 98.18                         | 98.63                   | /                 | /              | 35.15                        | 9.9                   | 45.5                     | 100                       | 55                         | Peak    |
| 5795                                                | 94.16                         | 94.61                   | /                 | /              | 35.15                        | 9.9                   | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5795                                                | 98.41                         | 99.06                   | /                 | /              | 34.95                        | 9.9                   | 45.5                     | 160                       | 355                        | Peak    |
| 5795                                                | 93.54                         | 94.19                   | /                 | /              | 34.95                        | 9.9                   | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5795MHz: Fundamental frequency.

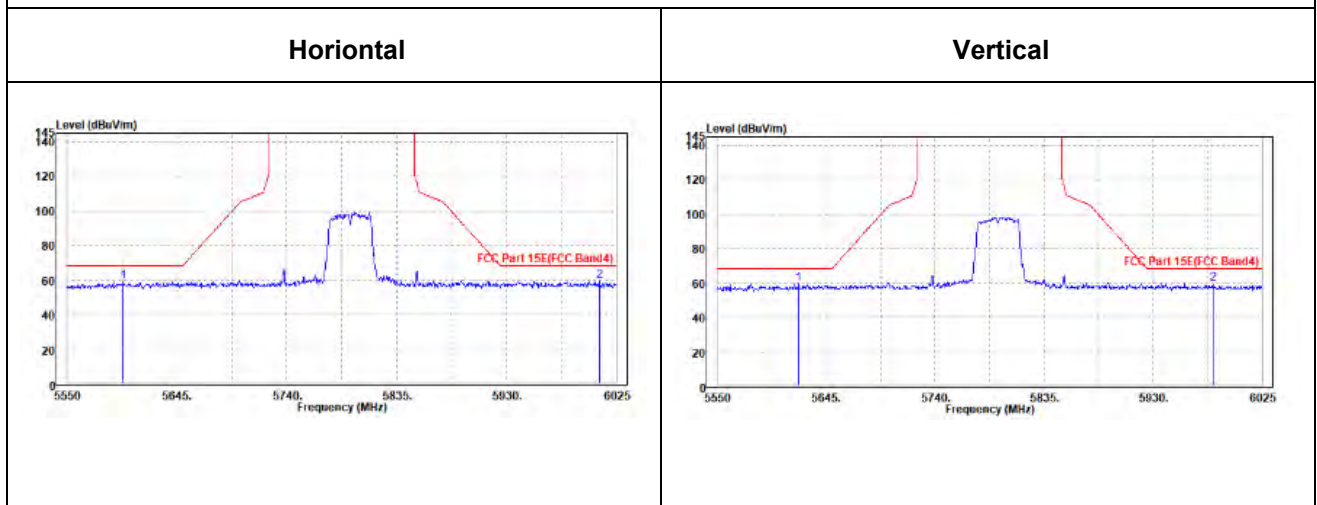


## Oobe Data

802.11ac (40MHz)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5598.45                                             | 59.17                         | 59.92                   | 68.2              | -9.03          | 34.92                        | 9.83                  | 45.5                     | 100                       | 360                        | Peak   |
| 6010.275                                            | 59.5                          | 59.62                   | 68.2              | -8.7           | 35.4                         | 9.98                  | 45.5                     | 100                       | 360                        | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5620.775                                            | 59.78                         | 60.7                    | 68.2              | -8.42          | 34.74                        | 9.84                  | 45.5                     | 100                       | 0                          | Peak   |
| 5982.25                                             | 59.6                          | 59.96                   | 68.2              | -8.6           | 35.18                        | 9.96                  | 45.5                     | 100                       | 0                          | Peak   |

## CH 159





**802.11ac (80MHz)**

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 155 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5775                                                | 93.93                         | 94.41                   | /                 | /              | 35.13                        | 9.89                  | 45.5                     | 100                       | 55                         | Peak    |
| 5775                                                | 90.22                         | 90.7                    | /                 | /              | 35.13                        | 9.89                  | 45.5                     | 100                       | 55                         | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK  |
| 5775                                                | 94.18                         | 94.86                   | /                 | /              | 34.93                        | 9.89                  | 45.5                     | 160                       | 355                        | Peak    |
| 5775                                                | 90.27                         | 90.95                   | /                 | /              | 34.93                        | 9.89                  | 45.5                     | 160                       | 355                        | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5775MHz: Fundamental frequency.

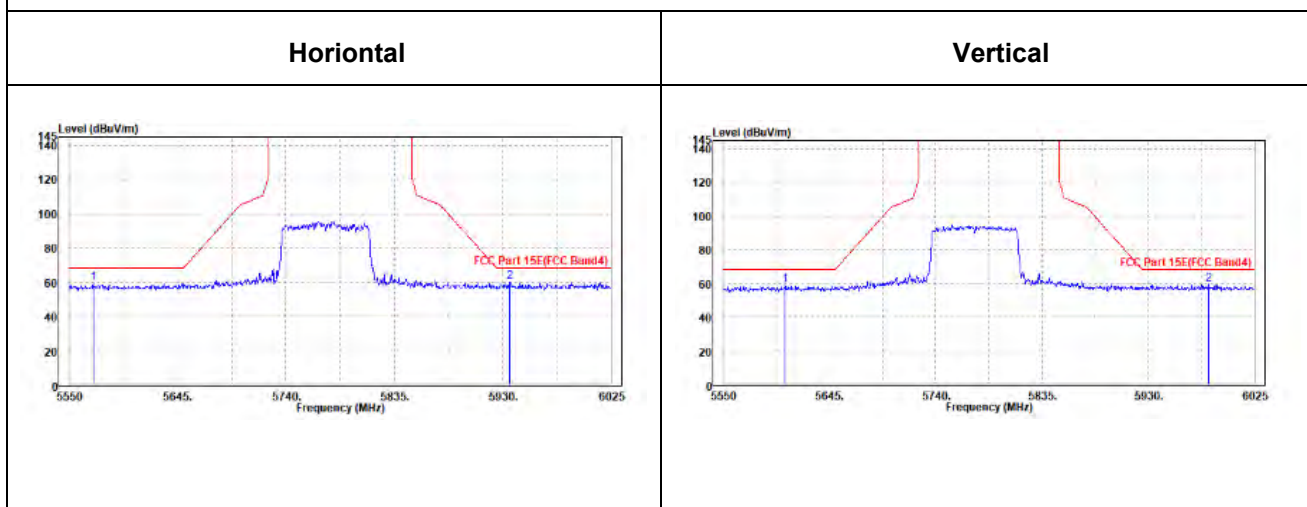


# OOBE DATA

802.11ac (80MHZ)

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5570.9                                              | 59.37                         | 60.16                   | 68.2              | -8.83          | 34.89                        | 9.82                  | 45.5                     | 100                       | 0                          | Peak   |
| 5936.175                                            | 59.83                         | 60.06                   | 68.2              | -8.37          | 35.32                        | 9.95                  | 45.5                     | 100                       | 0                          | Peak   |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
| FREQ.<br>(MHz)                                      | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB /m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 5605.1                                              | 58.96                         | 59.89                   | 68.2              | -9.24          | 34.73                        | 9.84                  | 45.5                     | 100                       | 360                        | Peak   |
| 5984.15                                             | 59.48                         | 59.84                   | 68.2              | -8.72          | 35.18                        | 9.96                  | 45.5                     | 100                       | 360                        | Peak   |

## CH 155





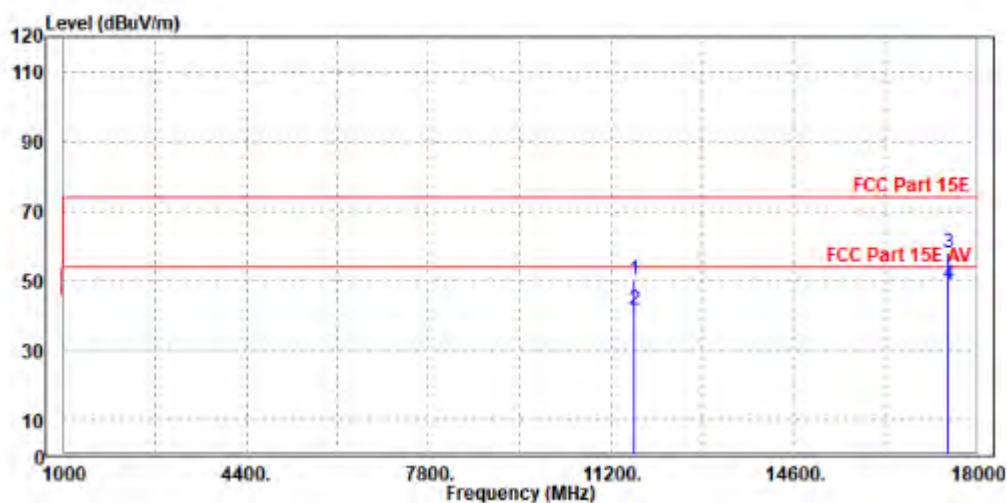
802.11ac (20MHz)

Worst case harmonic:

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 165 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

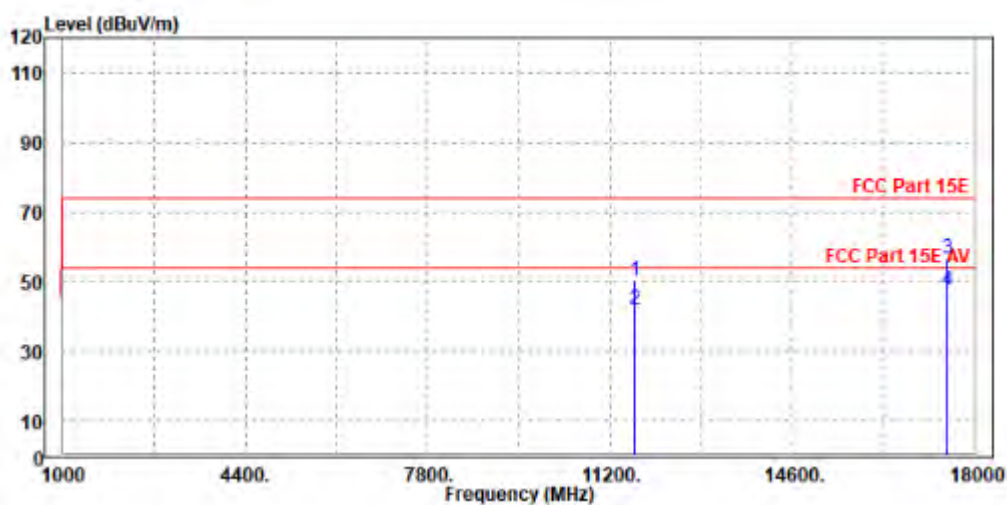
**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

|   | Freq        | Level  | Read  | Limit  | Over   |        |         |            |
|---|-------------|--------|-------|--------|--------|--------|---------|------------|
|   | MHz         | dBuV/m | Level | Line   | Limit  | Factor | Remark  | Pol/Phase  |
|   |             |        | dBuV  | dBuV/m | dB     | dB/m   |         |            |
| 1 | 11642.000   | 50.19  | 40.70 | 74.00  | -23.81 | 9.49   | Peak    | Horizontal |
| 2 | 11642.000   | 41.34  | 31.85 | 54.00  | -12.66 | 9.49   | Average | Horizontal |
| 3 | PK17475.000 | 57.89  | 39.51 | 74.00  | -16.11 | 18.38  | Peak    | Horizontal |
| 4 | PP17475.000 | 48.67  | 30.29 | 54.00  | -5.33  | 18.38  | Average | Horizontal |



**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

|   | Freq        | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark  | Pol/Phase |
|---|-------------|--------|---------------|---------------|---------------|--------|---------|-----------|
|   | MHz         | dBuV/m | dBuV          | dBuV/m        | dB            | dB/m   |         |           |
| 1 | 11650.000   | 50.14  | 40.20         | 74.00         | -23.86        | 9.94   | Peak    | Vertical  |
| 2 | 11650.000   | 41.87  | 31.93         | 54.00         | -12.13        | 9.94   | Average | Vertical  |
| 3 | PK17473.000 | 56.48  | 39.14         | 74.00         | -17.52        | 17.34  | Peak    | Vertical  |
| 4 | PP17473.000 | 47.62  | 30.28         | 54.00         | -6.38         | 17.34  | Average | Vertical  |



**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

## 3.2 CONDUCTED EMISSION MEASUREMENT

### 3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB $\mu$ V) |          |
|-----------------------------|------------------------------|----------|
|                             | Quasi-peak                   | Average  |
| 0.15 ~ 0.5                  | 66 to 56                     | 56 to 46 |
| 0.5 ~ 5                     | 56                           | 46       |
| 5 ~ 30                      | 60                           | 50       |

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
  2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
  3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 3.2.2 TEST INSTRUMENTS

| Equipment           | Manufacturer  | Model No. | Serial No. | Last Cal.  | Next Cal.  |
|---------------------|---------------|-----------|------------|------------|------------|
| EMI Test Receiver   | Rohde&Schwarz | ESR3      | 101900     | Feb. 15,22 | Feb. 14,23 |
| EMC32 test software | Rohde&Schwarz | EMC32     | NA         | NA         | NA         |
| LISN network        | Rohde&Schwarz | ENV216    | 101922     | Mar. 04,22 | Mar. 03,23 |

**NOTE:**

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

### 3.2.3 TEST PROCEDURES

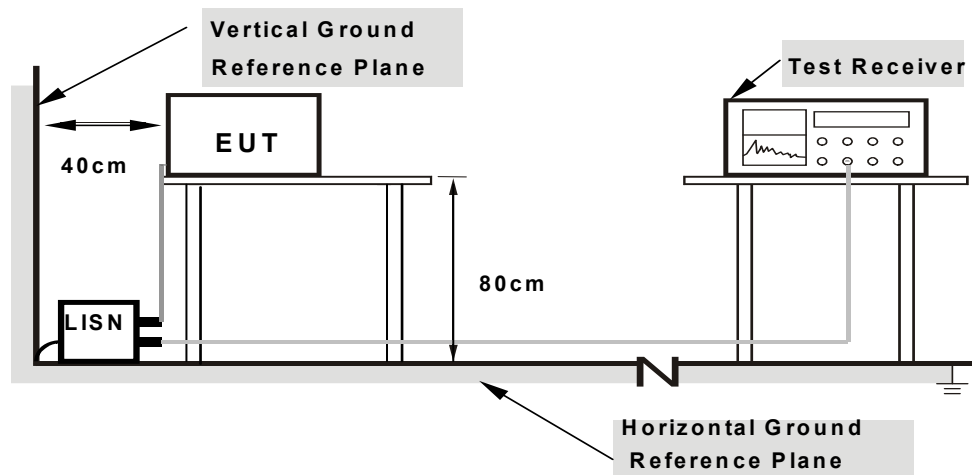
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

### 3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

### 3.2.5 TEST SETUP



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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

### 3.2.7 TEST RESULTS

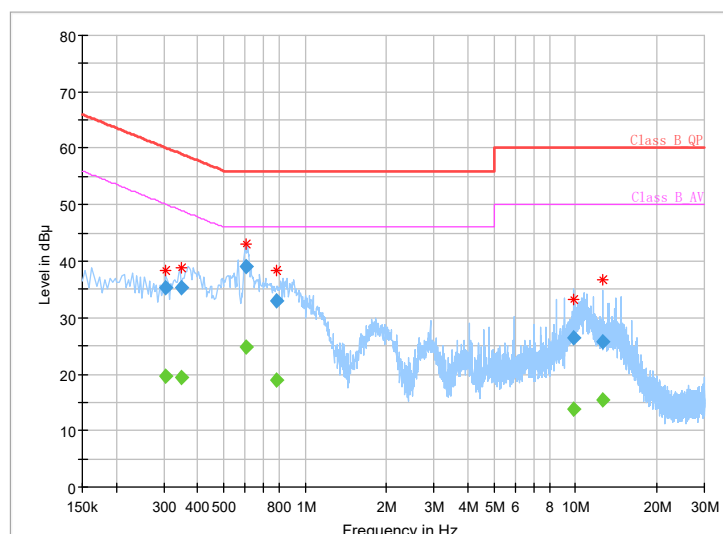
#### CONDUCTED WORST-CASE DATA:

|                 |                |                                          |                                       |
|-----------------|----------------|------------------------------------------|---------------------------------------|
| Frequency Range | 150KHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 26deg. C, 51%RH                       |
| Tested By       | Carl Xie       |                                          |                                       |

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.306000        | ---              | 19.70           | 50.08        | 30.38       | L1   | ON     | 9.7        |
| 0.306000        | 35.39            | ---             | 60.08        | 24.69       | L1   | ON     | 9.7        |
| 0.348000        | ---              | 19.46           | 49.01        | 29.55       | L1   | ON     | 9.7        |
| 0.348000        | 35.40            | ---             | 59.01        | 23.61       | L1   | ON     | 9.7        |
| 0.604000        | ---              | 24.72           | 46.00        | 21.28       | L1   | ON     | 9.7        |
| 0.604000        | 39.14            | ---             | 56.00        | 16.86       | L1   | ON     | 9.7        |
| 0.788000        | ---              | 18.98           | 46.00        | 27.02       | L1   | ON     | 9.7        |
| 0.788000        | 33.09            | ---             | 56.00        | 22.91       | L1   | ON     | 9.7        |
| 9.848000        | ---              | 13.86           | 50.00        | 36.14       | L1   | ON     | 9.7        |
| 9.848000        | 26.33            | ---             | 60.00        | 33.67       | L1   | ON     | 9.7        |
| 12.672000       | ---              | 15.45           | 50.00        | 34.55       | L1   | ON     | 9.8        |
| 12.672000       | 25.70            | ---             | 60.00        | 34.30       | L1   | ON     | 9.8        |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Limit value - Emission level
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

Full Spectrum

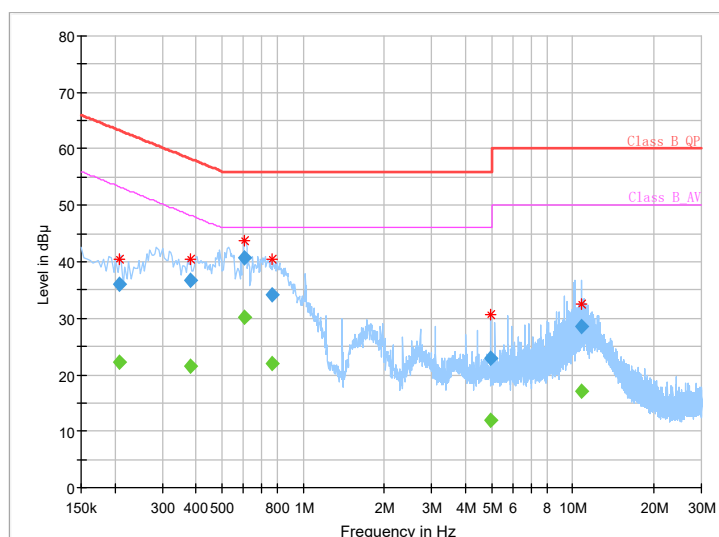


|                 |                |                                          |                                       |
|-----------------|----------------|------------------------------------------|---------------------------------------|
| Frequency Range | 150KHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 26deg. C, 51%RH                       |
| Tested By       | Carl Xie       |                                          |                                       |

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.208000        | ---              | 22.11           | 53.29        | 31.18       | N    | ON     | 9.7        |
| 0.208000        | 36.09            | ---             | 63.29        | 27.20       | N    | ON     | 9.7        |
| 0.380000        | ---              | 21.44           | 48.28        | 26.84       | N    | ON     | 9.7        |
| 0.380000        | 36.67            | ---             | 58.28        | 21.61       | N    | ON     | 9.7        |
| 0.604000        | ---              | 30.18           | 46.00        | 15.82       | N    | ON     | 9.7        |
| 0.604000        | 40.73            | ---             | 56.00        | 15.27       | N    | ON     | 9.7        |
| 0.770000        | ---              | 22.05           | 46.00        | 23.95       | N    | ON     | 9.7        |
| 0.770000        | 34.16            | ---             | 56.00        | 21.84       | N    | ON     | 9.7        |
| 4.976000        | ---              | 11.85           | 46.00        | 34.15       | N    | ON     | 9.8        |
| 4.976000        | 22.97            | ---             | 56.00        | 33.03       | N    | ON     | 9.8        |
| 10.788000       | ---              | 17.13           | 50.00        | 32.87       | N    | ON     | 9.8        |
| 10.788000       | 28.44            | ---             | 60.00        | 31.56       | N    | ON     | 9.8        |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Limit value - Emission level
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



### 3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

#### 3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

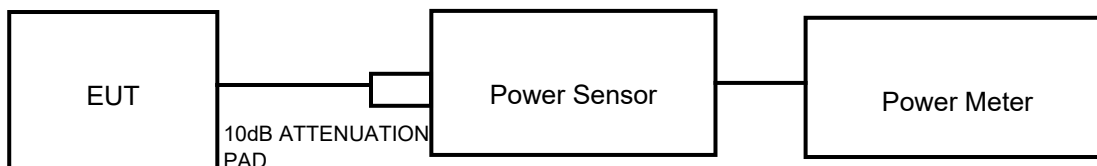
| Operation Band | EUT Category |                                   | LIMIT                                                                                                                       |
|----------------|--------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| U-NII-1        |              | Outdoor Access Point              | 1 Watt (30 dBm)<br>(Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
|                |              | Fixed point-to-point Access Point | 1 Watt (30 dBm)                                                                                                             |
|                |              | Indoor Access Point               | 1 Watt (30 dBm)                                                                                                             |
|                | √            | Client devices                    | 250mW (24 dBm)                                                                                                              |
| U-NII-2A       | √            |                                   | 250mW (24 dBm) or 11 dBm+10 log B*                                                                                          |
| U-NII-2C       | √            |                                   | 250mW (24 dBm) or 11 dBm+10 log B*                                                                                          |
| U-NII-3        | √            |                                   | 1 Watt (30 dBm)                                                                                                             |

**NOTE:** Where B is the 26dB emission bandwidth in MHz.

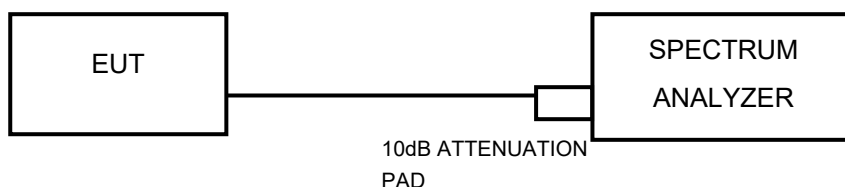
### 3.3.2 TEST SETUP

#### FOR POWER OUTPUT MEASUREMENT

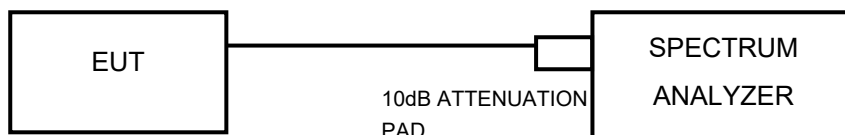
##### 802.11a, 802.11n/ac (20MHz), 802.11 n/ac (40MHz) TEST CONFIGURATION



##### 11ac (80MHz) TEST CONFIGURATION



#### FOR 26dB BANDWIDTH



### 3.3.3 TEST INSTRUMENTS

| Equipment           | Manufacturer | Model No.  | Serial No. | Last Cal.  | Next Cal.  |
|---------------------|--------------|------------|------------|------------|------------|
| Power Meter         | ANRITSU      | ML2495A    | 1506002    | Feb. 22,22 | Feb. 21,23 |
| EXA Signal Analyzer | KEYSIGHT     | N9010A-526 | MY54510322 | Feb. 18,22 | Feb. 17,23 |
| EXA Signal Analyzer | KEYSIGHT     | N9010A-544 | MY54510355 | May.15,22  | May.14,23  |
| Power Sensor        | ANRITSU      | MA2411B    | 1339352    | May. 06,22 | May. 05,23 |

**NOTE:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

### 3.3.4 TEST PROCEDURE

#### FOR POWER MEASUREMENT

##### **For 802.11a, 802.11 n/ac (20MHz), 802.11 n/ac (40MHz)**

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

##### **For 802.11ac (80MHz)**

1. Measure the duty cycle,  $x$ , of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW  $\geq$  3 MHz.
5. Number of points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ . (This ensures that bin-to-bin spacing is  $\leq \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Add  $10 \log (1/x)$ , where  $x$  is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add  $10 \log (1/0.25) = 6 \text{ dB}$  if the duty cycle is 25%.

#### FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW  $\geq 3 \cdot$  RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

#### FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### FOR 6dB BANDWIDTH

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

### 3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

### 3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



**BUREAU VERITAS** Test Report No.: W7L-P22110037RF03

### 3.3.7 TEST RESULTS

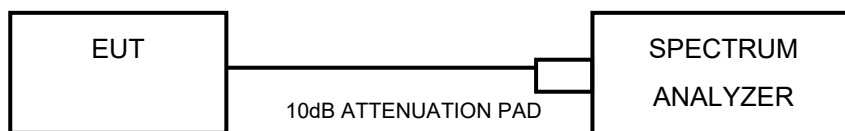
Please Refer to Appendix A Of this test report.

### 3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

#### 3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

| Operation Band | EUT Category |                                   | LIMIT         |
|----------------|--------------|-----------------------------------|---------------|
| U-NII-1        |              | Outdoor Access Point              | 17dBm/ MHz    |
|                |              | Fixed point-to-point Access Point |               |
|                |              | Indoor Access Point               |               |
|                | √            | Client devices                    | 11dBm/ MHz    |
| U-NII-2A       | √            |                                   | 11dBm/ MHz    |
| U-NII-2C       | √            |                                   | 11dBm/ MHz    |
| U-NII-3        | √            |                                   | 30dBm/ 500kHz |

#### 3.4.2 TEST SETUP



#### 3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

#### 3.4.4 TEST PROCEDURES

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add  $10 \log (1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 7) Record the max value

#### 3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.



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### 3.4.7 TEST RESULTS

Please Refer to Appendix A Of this test report.

### 3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

#### 3.5.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

#### 3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

#### 3.5.3 TEST RESULT

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission

## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

## 5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

## 6 APPENDIX A

### RLAN

### EMISSION BANDWIDTH

### TEST RESULT

| TestMode  | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|----------------|----------|----------|------------|---------|
| 11A       | Ant1    | 5180           | 24.240         | 5167.960 | 5192.200 | ---        | ---     |
|           |         | 5200           | 23.960         | 5188.320 | 5212.280 | ---        | ---     |
|           |         | 5240           | 23.360         | 5228.960 | 5252.320 | ---        | ---     |
|           |         | 5260           | 23.720         | 5248.680 | 5272.400 | ---        | ---     |
|           |         | 5300           | 23.760         | 5288.960 | 5312.720 | ---        | ---     |
|           |         | 5320           | 23.800         | 5309.000 | 5332.800 | ---        | ---     |
|           |         | 5500           | 24.160         | 5488.200 | 5512.360 | ---        | ---     |
|           |         | 5580           | 23.400         | 5568.880 | 5592.280 | ---        | ---     |
|           |         | 5700           | 23.520         | 5688.880 | 5712.400 | ---        | ---     |
|           |         | 5720           | 24.720         | 5707.640 | 5732.360 | ---        | ---     |
|           |         | 5720_UNII-2C   | 17.36          | 5707.640 | 5725     | ---        | ---     |
|           |         | 5720_UNII-3    | 7.36           | 5725     | 5732.360 | ---        | ---     |
|           |         | 5745           | 23.720         | 5733.560 | 5757.280 | ---        | ---     |
|           |         | 5785           | 24.520         | 5772.720 | 5797.240 | ---        | ---     |
|           |         | 5825           | 23.960         | 5813.440 | 5837.400 | ---        | ---     |
| 11N20SISO | Ant1    | 5180           | 23.080         | 5168.880 | 5191.960 | ---        | ---     |
|           |         | 5200           | 22.560         | 5188.840 | 5211.400 | ---        | ---     |
|           |         | 5240           | 22.760         | 5229.200 | 5251.960 | ---        | ---     |
|           |         | 5260           | 24.000         | 5248.040 | 5272.040 | ---        | ---     |
|           |         | 5300           | 21.960         | 5289.400 | 5311.360 | ---        | ---     |
|           |         | 5320           | 23.920         | 5308.120 | 5332.040 | ---        | ---     |
|           |         | 5500           | 23.440         | 5488.640 | 5512.080 | ---        | ---     |
|           |         | 5580           | 22.760         | 5568.600 | 5591.360 | ---        | ---     |
|           |         | 5700           | 24.040         | 5687.960 | 5712.000 | ---        | ---     |
|           |         | 5720           | 26.760         | 5706.120 | 5732.880 | ---        | ---     |
|           |         | 5720_UNII-2C   | 18.88          | 5706.120 | 5725     | ---        | ---     |
|           |         | 5720_UNII-3    | 7.88           | 5725     | 5732.880 | ---        | ---     |
|           |         | 5745           | 26.400         | 5731.480 | 5757.880 | ---        | ---     |



|            |      |              |        |          |          |     |     |
|------------|------|--------------|--------|----------|----------|-----|-----|
|            |      | 5785         | 25.880 | 5771.960 | 5797.840 | --- | --- |
|            |      | 5825         | 22.960 | 5813.040 | 5836.000 | --- | --- |
| 11N40SISO  | Ant1 | 5190         | 41.440 | 5169.520 | 5210.960 | --- | --- |
|            |      | 5230         | 41.280 | 5209.840 | 5251.120 | --- | --- |
|            |      | 5270         | 41.120 | 5249.600 | 5290.720 | --- | --- |
|            |      | 5310         | 40.960 | 5289.680 | 5330.640 | --- | --- |
|            |      | 5510         | 41.440 | 5489.200 | 5530.640 | --- | --- |
|            |      | 5550         | 41.840 | 5529.600 | 5571.440 | --- | --- |
|            |      | 5670         | 41.760 | 5648.640 | 5690.400 | --- | --- |
|            |      | 5710         | 41.680 | 5688.960 | 5730.640 | --- | --- |
|            |      | 5710_UNII-2C | 36.04  | 5688.960 | 5725     | --- | --- |
|            |      | 5710_UNII-3  | 5.64   | 5725     | 5730.640 | --- | --- |
|            |      | 5755         | 41.920 | 5733.720 | 5775.640 | --- | --- |
|            |      | 5795         | 41.280 | 5774.200 | 5815.480 | --- | --- |
| 11AC20SISO | Ant1 | 5180         | 24.440 | 5167.800 | 5192.240 | --- | --- |
|            |      | 5200         | 23.960 | 5187.880 | 5211.840 | --- | --- |
|            |      | 5240         | 22.640 | 5228.760 | 5251.400 | --- | --- |
|            |      | 5260         | 23.120 | 5248.680 | 5271.800 | --- | --- |
|            |      | 5300         | 23.880 | 5288.520 | 5312.400 | --- | --- |
|            |      | 5320         | 25.440 | 5307.480 | 5332.920 | --- | --- |
|            |      | 5500         | 22.960 | 5488.840 | 5511.800 | --- | --- |
|            |      | 5580         | 22.720 | 5568.400 | 5591.120 | --- | --- |
|            |      | 5700         | 28.280 | 5686.120 | 5714.400 | --- | --- |
|            |      | 5720         | 25.600 | 5706.960 | 5732.560 | --- | --- |
|            |      | 5720_UNII-2C | 18.04  | 5706.960 | 5725     | --- | --- |
|            |      | 5720_UNII-3  | 7.56   | 5725     | 5732.560 | --- | --- |
|            |      | 5745         | 25.480 | 5732.400 | 5757.880 | --- | --- |
|            |      | 5785         | 25.000 | 5772.280 | 5797.280 | --- | --- |
|            |      | 5825         | 23.880 | 5813.000 | 5836.880 | --- | --- |
| 11AC40SISO | Ant1 | 5190         | 40.640 | 5169.840 | 5210.480 | --- | --- |
|            |      | 5230         | 41.840 | 5209.360 | 5251.200 | --- | --- |
|            |      | 5270         | 40.960 | 5249.680 | 5290.640 | --- | --- |
|            |      | 5310         | 41.600 | 5288.880 | 5330.480 | --- | --- |
|            |      | 5510         | 41.760 | 5488.800 | 5530.560 | --- | --- |
|            |      | 5550         | 41.680 | 5528.800 | 5570.480 | --- | --- |



|            |      |              |         |          |          |     |     |
|------------|------|--------------|---------|----------|----------|-----|-----|
|            |      | 5670         | 41.840  | 5648.720 | 5690.560 | --- | --- |
|            |      | 5710         | 41.680  | 5689.040 | 5730.720 | --- | --- |
|            |      | 5710_UNII-2C | 35.96   | 5689.040 | 5725     | --- | --- |
|            |      | 5710_UNII-3  | 5.72    | 5725     | 5730.720 | --- | --- |
|            |      | 5755         | 41.360  | 5733.880 | 5775.240 | --- | --- |
|            |      | 5795         | 41.920  | 5773.720 | 5815.640 | --- | --- |
| 11AC80SISO | Ant1 | 5210         | 86.080  | 5167.280 | 5253.360 | --- | --- |
|            |      | 5290         | 103.520 | 5244.720 | 5348.240 | --- | --- |
|            |      | 5530         | 100.160 | 5472.080 | 5572.240 | --- | --- |
|            |      | 5610         | 88.480  | 5564.560 | 5653.040 | --- | --- |
|            |      | 5690         | 100.320 | 5633.360 | 5733.680 | --- | --- |
|            |      | 5690_UNII-2C | 91.64   | 5633.360 | 5725     | --- | --- |
|            |      | 5690_UNII-3  | 8.68    | 5725     | 5733.680 | --- | --- |
|            |      | 5775         | 101.440 | 5716.440 | 5817.880 | --- | --- |

## TEST GRAPHS

11A\_Ant1\_5180



11A\_Ant1\_5200



11A\_Ant1\_5240



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Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5260



11A\_Ant1\_5300



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5320



11A\_Ant1\_5500



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5580



11A\_Ant1\_5700



**Test Report No.: W7L-P22110037RF03**



11A Ant1 5720



11A Ant1 5745



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5785



11A\_Ant1\_5825



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VERITAS

Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200



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Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5240



11N20SISO\_Ant1\_5260



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Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5300



11N20SISO\_Ant1\_5320



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Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5500



11N20SISO\_Ant1\_5580



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11N20SISO\_Ant1\_5700



11N20SISO\_Ant1\_5720



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11N20SISO\_Ant1\_5745



11N20SISO\_Ant1\_5785



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11N20SISO\_Ant1\_5825



11N40SISO\_Ant1\_5190



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11N40SISO\_Ant1\_5230



11N40SISO\_Ant1\_5270



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11N40SISO\_Ant1\_5310



11N40SISO\_Ant1\_5510



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Test Report No.: W7L-P22110037RF03



11N40SISO\_Ant1\_5550

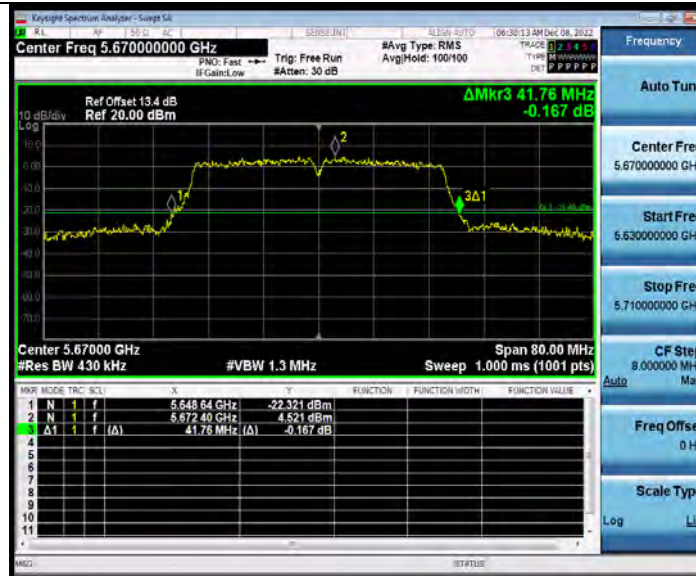


11N40SISO\_Ant1\_5670



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11N40SISO\_Ant1\_5710



11N40SISO\_Ant1\_5755



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11N40SISO\_Ant1\_5795



11AC20SISO\_Ant1\_5180



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Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant1\_5240



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VERITAS

Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5260



11AC20SISO\_Ant1\_5300



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5320

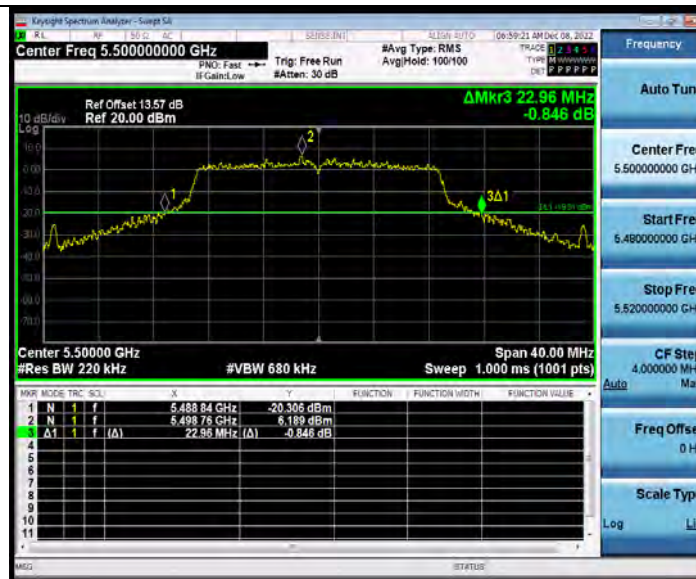


11AC20SISO\_Ant1\_5500



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5580



11AC20SISO\_Ant1\_5700



**Test Report No.: W7L-P22110037RF03**



11AC20SISO\_Ant1\_5720



11AC20SISO Ant1 5745



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Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



BUREAU  
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Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5270



11AC40SISO\_Ant1\_5310



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Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5510



11AC40SISO\_Ant1\_5550



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5670



11AC40SISO\_Ant1\_5710



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5755



11AC40SISO\_Ant1\_5795



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC80SISO\_Ant1\_5210



11AC80SISO\_Ant1\_5290



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC80SISO\_Ant1\_5530



11AC80SISO\_Ant1\_5610



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC80SISO\_Ant1\_5690



11AC80SISO\_Ant1\_5775



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



## OCCUPIED CHANNEL BANDWIDTH

### TEST RESULT

| TestMode  | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 11A       | Ant1    | 5180           | 16.980    | 5171.4698 | 5188.4498 | ---        | ---     |
|           |         | 5200           | 16.976    | 5191.5176 | 5208.4936 | ---        | ---     |
|           |         | 5240           | 16.902    | 5231.5735 | 5248.4755 | ---        | ---     |
|           |         | 5260           | 16.948    | 5251.5413 | 5268.4893 | ---        | ---     |
|           |         | 5300           | 17.002    | 5291.5376 | 5308.5396 | ---        | ---     |
|           |         | 5320           | 17.069    | 5311.4939 | 5328.5629 | ---        | ---     |
|           |         | 5500           | 17.030    | 5491.4643 | 5508.4943 | ---        | ---     |
|           |         | 5580           | 17.018    | 5571.4517 | 5588.4697 | ---        | ---     |
|           |         | 5700           | 17.083    | 5691.4487 | 5708.5317 | ---        | ---     |
|           |         | 5720           | 17.124    | 5711.4151 | 5728.5391 | ---        | ---     |
|           |         | 5720_UNII-2C   | 13.585    | 5711.4151 | 5725      | ---        | ---     |
|           |         | 5720_UNII-3    | 3.539     | 5725      | 5728.5391 | ---        | ---     |
|           |         | 5745           | 17.092    | 5736.4042 | 5753.4962 | ---        | ---     |
|           |         | 5785           | 17.129    | 5776.3758 | 5793.5048 | ---        | ---     |
|           |         | 5825           | 17.011    | 5816.4740 | 5833.4850 | ---        | ---     |
| 11N20SISO | Ant1    | 5180           | 18.163    | 5170.8912 | 5189.0542 | ---        | ---     |
|           |         | 5200           | 18.186    | 5190.9243 | 5209.1103 | ---        | ---     |
|           |         | 5240           | 18.171    | 5230.9348 | 5249.1058 | ---        | ---     |
|           |         | 5260           | 18.182    | 5250.9035 | 5269.0855 | ---        | ---     |
|           |         | 5300           | 18.176    | 5290.9186 | 5309.0946 | ---        | ---     |
|           |         | 5320           | 18.170    | 5310.9081 | 5329.0781 | ---        | ---     |
|           |         | 5500           | 18.214    | 5490.8661 | 5509.0801 | ---        | ---     |
|           |         | 5580           | 18.185    | 5570.9007 | 5589.0857 | ---        | ---     |
|           |         | 5700           | 18.294    | 5690.8210 | 5709.1150 | ---        | ---     |
|           |         | 5720           | 18.290    | 5710.8560 | 5729.1460 | ---        | ---     |
|           |         | 5720_UNII-2C   | 14.144    | 5710.8560 | 5725      | ---        | ---     |
|           |         | 5720_UNII-3    | 4.146     | 5725      | 5729.1460 | ---        | ---     |
|           |         | 5745           | 18.246    | 5735.8407 | 5754.0867 | ---        | ---     |
|           |         | 5785           | 18.228    | 5775.8200 | 5794.0480 | ---        | ---     |
|           |         | 5825           | 18.160    | 5815.8794 | 5834.0394 | ---        | ---     |
| 11N40SISO | Ant1    | 5190           | 36.487    | 5171.8091 | 5208.2961 | ---        | ---     |



|            |      |              |        |           |           |     |     |
|------------|------|--------------|--------|-----------|-----------|-----|-----|
|            |      | 5230         | 36.413 | 5211.8827 | 5248.2957 | --- | --- |
|            |      | 5270         | 36.448 | 5251.8954 | 5288.3434 | --- | --- |
|            |      | 5310         | 36.459 | 5291.8841 | 5328.3431 | --- | --- |
|            |      | 5510         | 36.497 | 5491.7873 | 5528.2843 | --- | --- |
|            |      | 5550         | 36.564 | 5531.7408 | 5568.3048 | --- | --- |
|            |      | 5670         | 36.475 | 5651.7877 | 5688.2627 | --- | --- |
|            |      | 5710         | 36.597 | 5691.7366 | 5728.3336 | --- | --- |
|            |      | 5710_UNII-2C | 33.263 | 5691.7366 | 5725      | --- | --- |
|            |      | 5710_UNII-3  | 3.334  | 5725      | 5728.3336 | --- | --- |
|            |      | 5755         | 36.536 | 5736.7078 | 5773.2438 | --- | --- |
|            |      | 5795         | 36.508 | 5776.6580 | 5813.1660 | --- | --- |
| 11AC20SISO | Ant1 | 5180         | 18.190 | 5170.9140 | 5189.1040 | --- | --- |
|            |      | 5200         | 18.060 | 5190.9879 | 5209.0479 | --- | --- |
|            |      | 5240         | 18.064 | 5230.9693 | 5249.0333 | --- | --- |
|            |      | 5260         | 18.094 | 5251.0217 | 5269.1157 | --- | --- |
|            |      | 5300         | 18.097 | 5291.0151 | 5309.1121 | --- | --- |
|            |      | 5320         | 18.223 | 5310.9341 | 5329.1571 | --- | --- |
|            |      | 5500         | 18.127 | 5490.9285 | 5509.0555 | --- | --- |
|            |      | 5580         | 18.141 | 5570.9177 | 5589.0587 | --- | --- |
|            |      | 5700         | 18.304 | 5690.8323 | 5709.1363 | --- | --- |
|            |      | 5720         | 18.305 | 5710.8636 | 5729.1686 | --- | --- |
|            |      | 5720_UNII-2C | 14.136 | 5710.8636 | 5725      | --- | --- |
|            |      | 5720_UNII-3  | 4.169  | 5725      | 5729.1686 | --- | --- |
|            |      | 5745         | 18.332 | 5735.8239 | 5754.1559 | --- | --- |
|            |      | 5785         | 18.303 | 5775.8190 | 5794.1220 | --- | --- |
|            |      | 5825         | 18.179 | 5815.9278 | 5834.1068 | --- | --- |
| 11AC40SISO | Ant1 | 5190         | 36.465 | 5171.8195 | 5208.2845 | --- | --- |
|            |      | 5230         | 36.364 | 5211.9072 | 5248.2712 | --- | --- |
|            |      | 5270         | 36.344 | 5251.9010 | 5288.2450 | --- | --- |
|            |      | 5310         | 36.424 | 5291.8845 | 5328.3085 | --- | --- |
|            |      | 5510         | 36.459 | 5491.7776 | 5528.2366 | --- | --- |
|            |      | 5550         | 36.475 | 5531.7631 | 5568.2381 | --- | --- |
|            |      | 5670         | 36.487 | 5651.7590 | 5688.2460 | --- | --- |
|            |      | 5710         | 36.509 | 5691.7524 | 5728.2614 | --- | --- |
|            |      | 5710_UNII-2C | 33.248 | 5691.7524 | 5725      | --- | --- |

**Test Report No.: W7L-P22110037RF03**

|            |      |              |        |           |           |     |     |
|------------|------|--------------|--------|-----------|-----------|-----|-----|
|            |      | 5710_UNII-3  | 3.261  | 5725      | 5728.2614 | --- | --- |
|            |      | 5755         | 36.484 | 5736.7046 | 5773.1886 | --- | --- |
|            |      | 5795         | 36.415 | 5776.6904 | 5813.1054 | --- | --- |
| 11AC80SISO | Ant1 | 5210         | 75.947 | 5172.1127 | 5248.0597 | --- | --- |
|            |      | 5290         | 75.992 | 5252.2135 | 5328.2055 | --- | --- |
|            |      | 5530         | 75.957 | 5491.9365 | 5567.8935 | --- | --- |
|            |      | 5610         | 76.070 | 5571.8577 | 5647.9277 | --- | --- |
|            |      | 5690         | 76.085 | 5651.8209 | 5727.9059 | --- | --- |
|            |      | 5690_UNII-2C | 73.179 | 5651.8209 | 5725      | --- | --- |
|            |      | 5690_UNII-3  | 2.906  | 5725      | 5727.9059 | --- | --- |
|            |      | 5775         | 76.106 | 5736.5402 | 5812.6462 | --- | --- |

## TEST GRAPHS

11A\_Ant1\_5180



11A\_Ant1\_5200



11A\_Ant1\_5240



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Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5260



11A\_Ant1\_5300



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VERITAS

Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5320



11A\_Ant1\_5500



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5580



11A\_Ant1\_5700

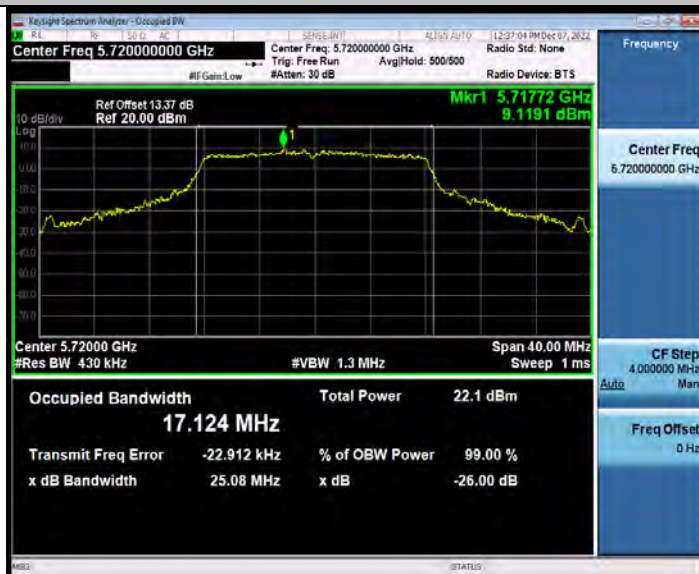


BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5720



11A\_Ant1\_5745



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5785



11A\_Ant1\_5825



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Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200



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Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5240



11N20SISO\_Ant1\_5260



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Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5300



11N20SISO\_Ant1\_5320



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Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5500



11N20SISO\_Ant1\_5580



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5700



11N20SISO\_Ant1\_5720

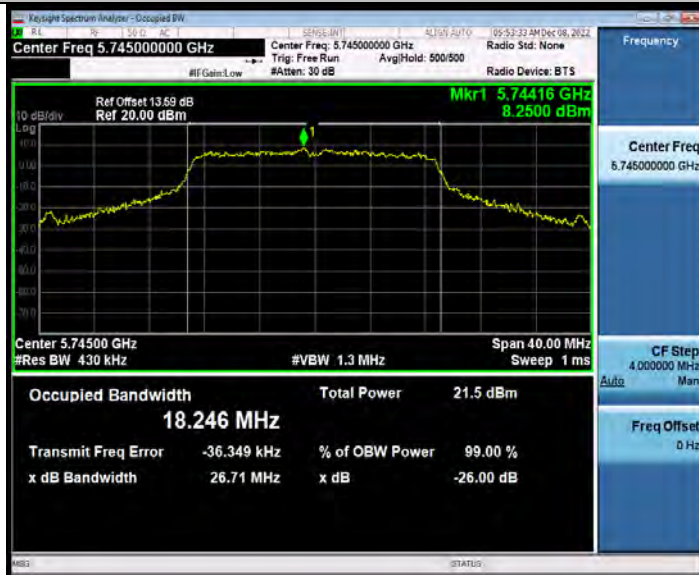


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Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5745



11N20SISO\_Ant1\_5785



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5825



11N40SISO\_Ant1\_5190



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VERITAS

Test Report No.: W7L-P22110037RF03



11N40SISO\_Ant1\_5230



11N40SISO\_Ant1\_5270



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VERITAS

Test Report No.: W7L-P22110037RF03



11N40SISO\_Ant1\_5310



11N40SISO\_Ant1\_5510



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VERITAS

Test Report No.: W7L-P22110037RF03



11N40SISO\_Ant1\_5550



11N40SISO\_Ant1\_5670



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11N40SISO\_Ant1\_5710

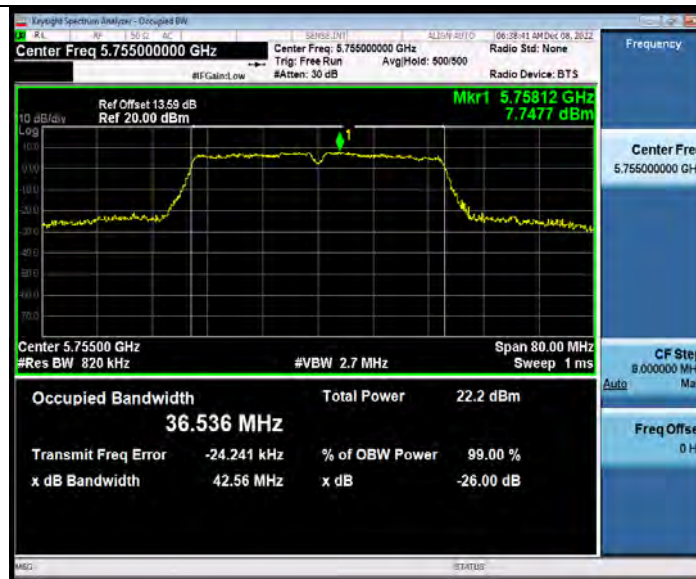


11N40SISO\_Ant1\_5755



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11N40SISO\_Ant1\_5795



11AC20SISO\_Ant1\_5180



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Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant1\_5240



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VERITAS

Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5260



11AC20SISO\_Ant1\_5300



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5320



11AC20SISO\_Ant1\_5500



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5580



11AC20SISO\_Ant1\_5700



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5720



11AC20SISO\_Ant1\_5745



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VERITAS

Test Report No.: W7L-P22110037RF03



11AC20SISO\_Ant1\_5785



11AC20SISO\_Ant1\_5825



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230

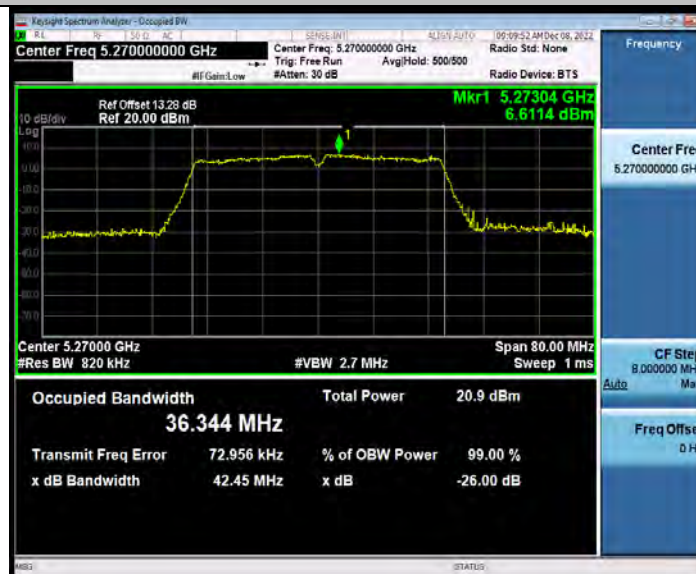


BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5270



11AC40SISO\_Ant1\_5310

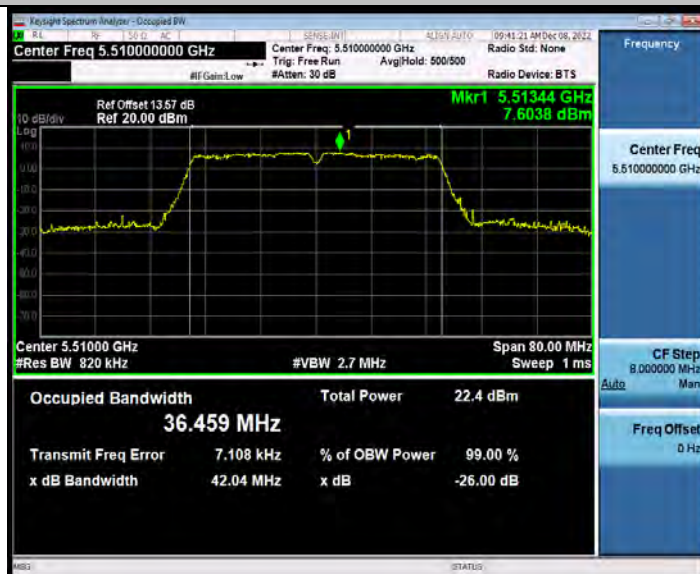


BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5510



11AC40SISO\_Ant1\_5550

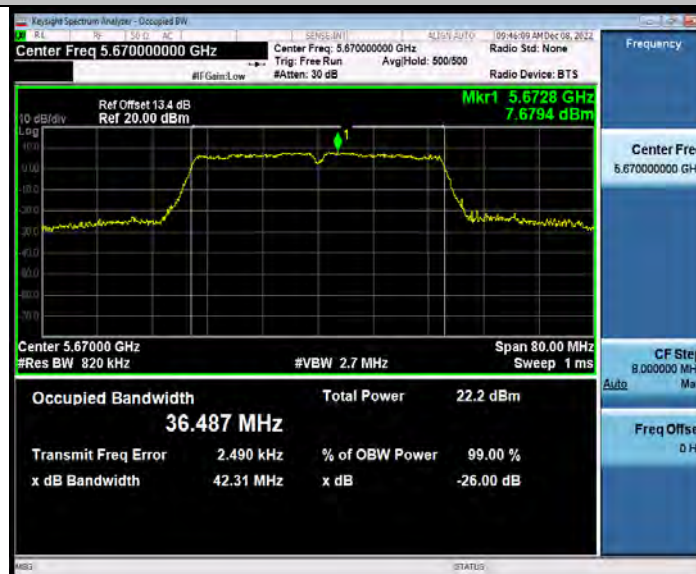


BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5670



11AC40SISO\_Ant1\_5710

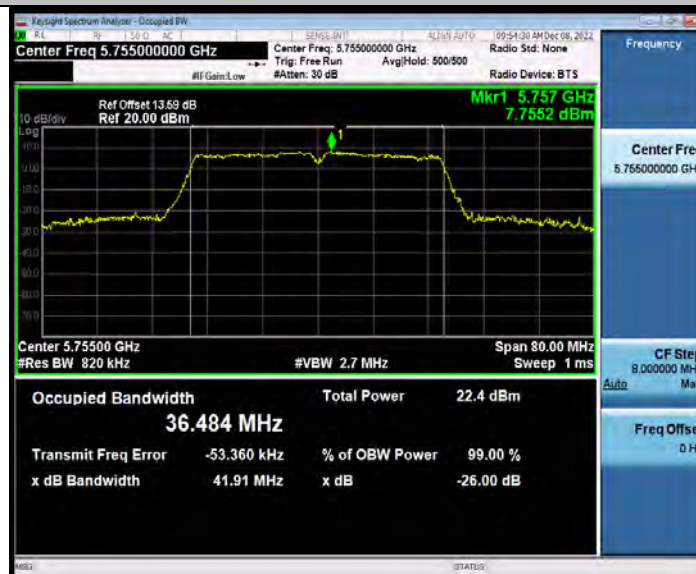


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VERITAS

Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5755

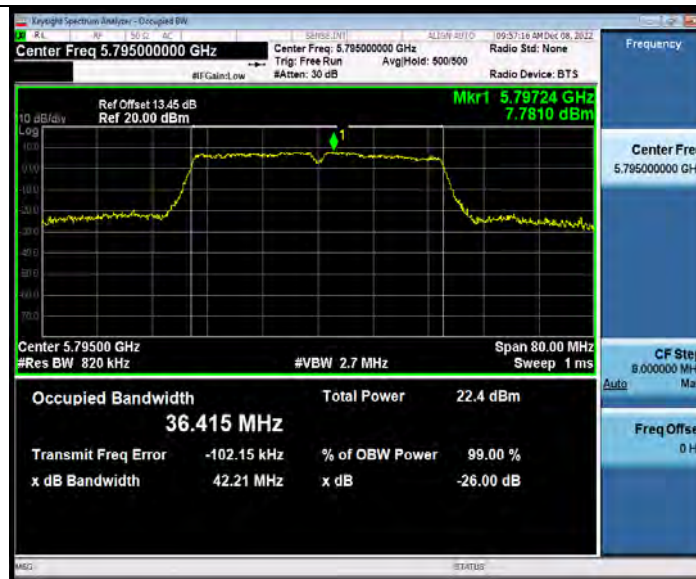


11AC40SISO\_Ant1\_5795

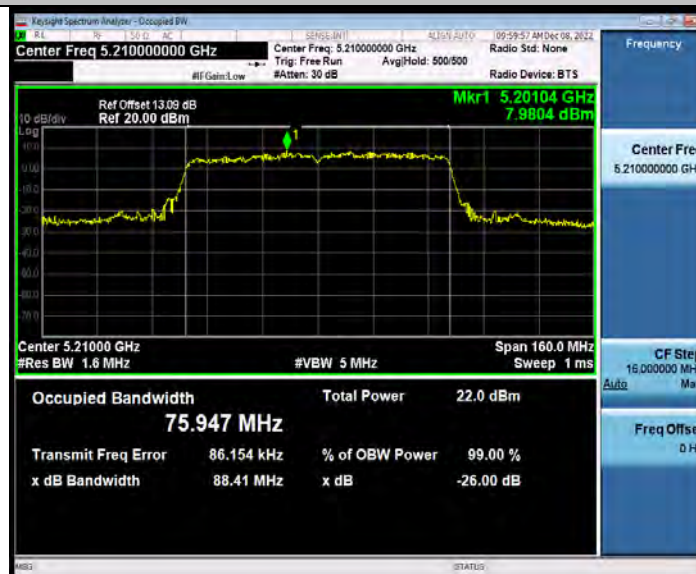


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VERITAS

Test Report No.: W7L-P22110037RF03



11AC80SISO\_Ant1\_5210



11AC80SISO\_Ant1\_5290



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC80SISO\_Ant1\_5530



11AC80SISO\_Ant1\_5610



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC80SISO\_Ant1\_5690



11AC80SISO\_Ant1\_5775



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



## MIN EMISSION BANDWIDTH

### TEST RESULT B4

| TestMode   | Antenna | Frequency[MHz] | 6db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|---------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5745           | 15.240        | 5737.200 | 5752.440 | 0.5        | PASS    |
|            |         | 5785           | 14.840        | 5777.720 | 5792.560 | 0.5        | PASS    |
|            |         | 5825           | 16.280        | 5816.800 | 5833.080 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5745           | 16.480        | 5736.240 | 5752.720 | 0.5        | PASS    |
|            |         | 5785           | 15.080        | 5777.480 | 5792.560 | 0.5        | PASS    |
|            |         | 5825           | 16.960        | 5816.480 | 5833.440 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5755           | 35.680        | 5736.840 | 5772.520 | 0.5        | PASS    |
|            |         | 5795           | 35.600        | 5776.840 | 5812.440 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5745           | 17.560        | 5736.200 | 5753.760 | 0.5        | PASS    |
|            |         | 5785           | 16.880        | 5776.240 | 5793.120 | 0.5        | PASS    |
|            |         | 5825           | 16.880        | 5816.560 | 5833.440 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5755           | 35.440        | 5737.080 | 5772.520 | 0.5        | PASS    |
|            |         | 5795           | 35.440        | 5777.080 | 5812.520 | 0.5        | PASS    |
| 11AC80SISO | Ant1    | 5775           | 75.360        | 5737.240 | 5812.600 | 0.5        | PASS    |

## TEST GRAPHS B4

11A\_Ant1\_5745



11A\_Ant1\_5785



11A\_Ant1\_5825





BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5825



11N40SISO\_Ant1\_5755



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11N40SISO\_Ant1\_5795



11AC20SISO\_Ant1\_5745



**Test Report No.: W7L-P22110037RF03**



11AC20SISO Ant1 5785



11AC20SISO Ant1 5825



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC40SISO\_Ant1\_5755



11AC40SISO\_Ant1\_5795



BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11AC80SISO\_Ant1\_5775



## DUTY CYCLE TEST RESULT

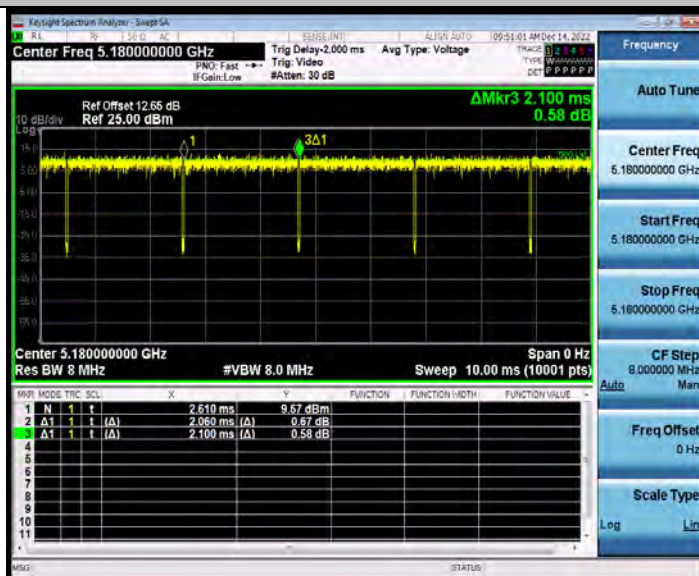
| TestMode  | Antenna | Frequency[MHz] | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] |
|-----------|---------|----------------|-------------------------------|-----------------------------|-------------------|
| 11A       | Ant1    | 5180           | 2.06                          | 2.10                        | 98.10             |
|           |         | 5200           | 2.07                          | 2.10                        | 98.57             |
|           |         | 5240           | 2.07                          | 2.11                        | 98.10             |
|           |         | 5260           | 2.06                          | 2.10                        | 98.10             |
|           |         | 5300           | 2.07                          | 2.10                        | 98.57             |
|           |         | 5320           | 2.06                          | 2.10                        | 98.10             |
|           |         | 5500           | 2.06                          | 2.10                        | 98.10             |
|           |         | 5580           | 2.06                          | 2.10                        | 98.10             |
|           |         | 5700           | 2.06                          | 2.10                        | 98.10             |
|           |         | 5720           | 2.07                          | 2.11                        | 98.10             |
|           |         | 5745           | 2.06                          | 2.10                        | 98.10             |
|           |         | 5785           | 2.06                          | 2.10                        | 98.10             |
|           |         | 5825           | 2.07                          | 2.10                        | 98.57             |
| 11N20SISO | Ant1    | 5180           | 1.92                          | 1.96                        | 97.96             |
|           |         | 5200           | 1.93                          | 1.96                        | 98.47             |
|           |         | 5240           | 1.92                          | 1.96                        | 97.96             |
|           |         | 5260           | 1.92                          | 1.96                        | 97.96             |
|           |         | 5300           | 1.93                          | 1.96                        | 98.47             |
|           |         | 5320           | 1.92                          | 1.96                        | 97.96             |
|           |         | 5500           | 1.92                          | 1.96                        | 97.96             |
|           |         | 5580           | 1.92                          | 1.96                        | 97.96             |
|           |         | 5700           | 1.92                          | 1.96                        | 97.96             |
|           |         | 5720           | 1.93                          | 1.96                        | 98.47             |
|           |         | 5745           | 1.92                          | 1.96                        | 97.96             |
|           |         | 5785           | 1.93                          | 1.96                        | 98.47             |
|           |         | 5825           | 1.93                          | 1.96                        | 98.47             |
| 11N40SISO | Ant1    | 5190           | 0.95                          | 0.99                        | 95.96             |
|           |         | 5230           | 0.95                          | 0.99                        | 95.96             |
|           |         | 5270           | 0.95                          | 0.99                        | 95.96             |
|           |         | 5310           | 0.95                          | 0.98                        | 96.94             |



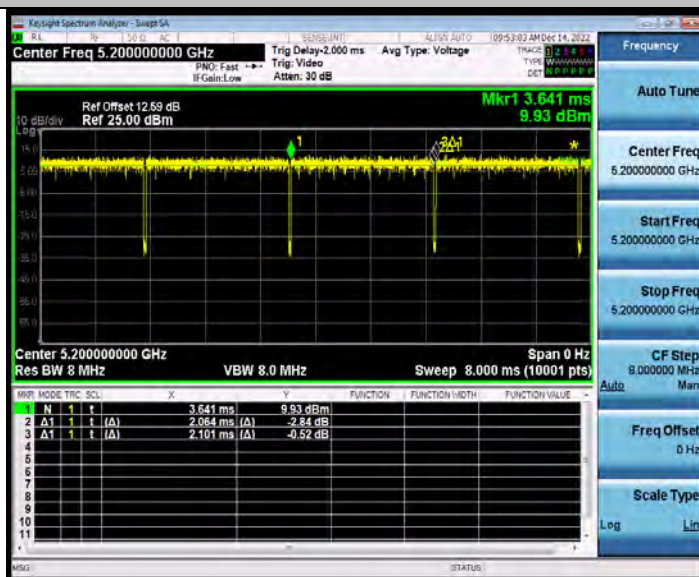
|            |      |      |      |      |       |
|------------|------|------|------|------|-------|
|            |      | 5510 | 0.95 | 0.98 | 96.94 |
|            |      | 5550 | 0.95 | 0.98 | 96.94 |
|            |      | 5670 | 0.95 | 0.98 | 96.94 |
|            |      | 5710 | 0.95 | 0.98 | 96.94 |
|            |      | 5755 | 0.95 | 0.99 | 95.96 |
|            |      | 5795 | 0.94 | 0.98 | 95.92 |
| 11AC20SISO | Ant1 | 5180 | 1.93 | 1.97 | 97.97 |
|            |      | 5200 | 1.93 | 1.97 | 97.97 |
|            |      | 5240 | 1.93 | 1.97 | 97.97 |
|            |      | 5260 | 1.93 | 1.97 | 97.97 |
|            |      | 5300 | 1.93 | 1.97 | 97.97 |
|            |      | 5320 | 1.93 | 1.97 | 97.97 |
|            |      | 5500 | 1.94 | 1.97 | 98.48 |
|            |      | 5580 | 1.93 | 1.97 | 97.97 |
|            |      | 5700 | 1.94 | 1.97 | 98.48 |
|            |      | 5720 | 1.93 | 1.97 | 97.97 |
|            |      | 5745 | 1.93 | 1.96 | 98.47 |
|            |      | 5785 | 1.93 | 1.97 | 97.97 |
|            |      | 5825 | 1.94 | 1.97 | 98.48 |
| 11AC40SISO | Ant1 | 5190 | 0.95 | 0.99 | 95.96 |
|            |      | 5230 | 0.95 | 0.99 | 95.96 |
|            |      | 5270 | 0.95 | 0.99 | 95.96 |
|            |      | 5310 | 0.95 | 0.98 | 96.94 |
|            |      | 5510 | 0.96 | 0.99 | 96.97 |
|            |      | 5550 | 0.95 | 0.98 | 96.94 |
|            |      | 5670 | 0.95 | 0.99 | 95.96 |
|            |      | 5710 | 0.95 | 0.98 | 96.94 |
|            |      | 5755 | 0.95 | 0.99 | 95.96 |
|            |      | 5795 | 0.95 | 0.99 | 95.96 |
|            |      |      |      |      |       |
| 11AC80SISO | Ant1 | 5210 | 0.46 | 0.50 | 92.00 |
|            |      | 5290 | 0.47 | 0.50 | 94.00 |
|            |      | 5530 | 0.47 | 0.50 | 94.00 |
|            |      | 5610 | 0.47 | 0.50 | 94.00 |
|            |      | 5690 | 0.47 | 0.50 | 94.00 |
|            |      | 5775 | 0.46 | 0.50 | 92.00 |

## TEST GRAPHS

11A\_Ant1\_5180



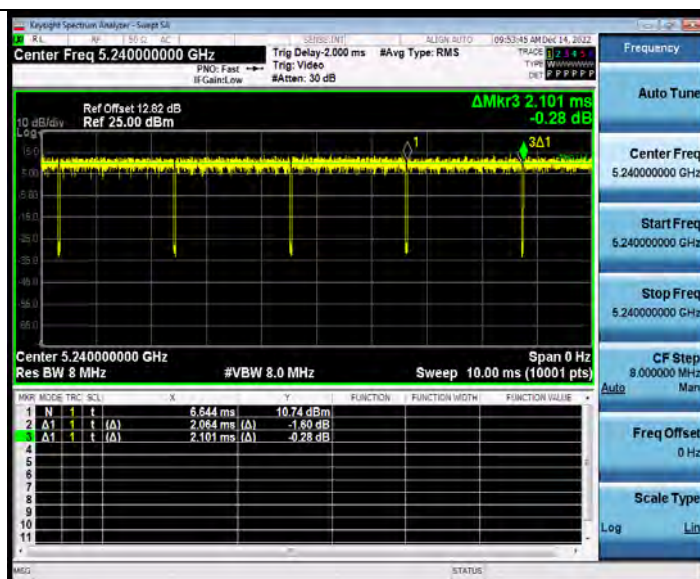
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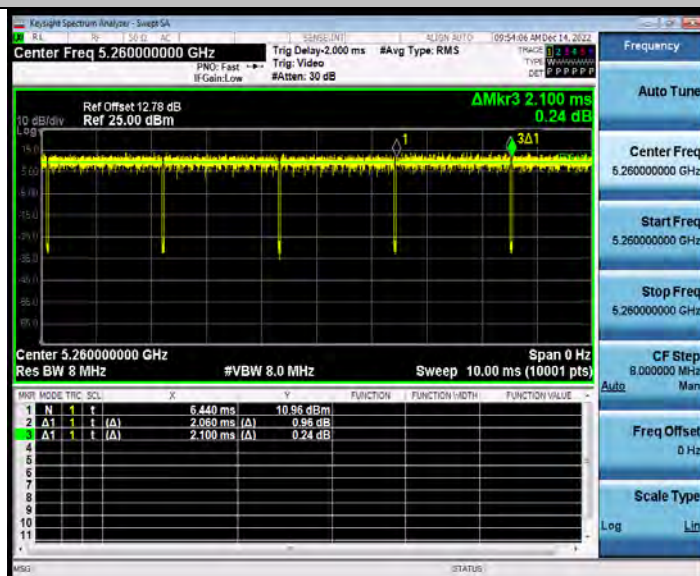
11A\_Ant1\_5240



**Test Report No.: W7L-P22110037RF03**



11A\_Ant1\_5260

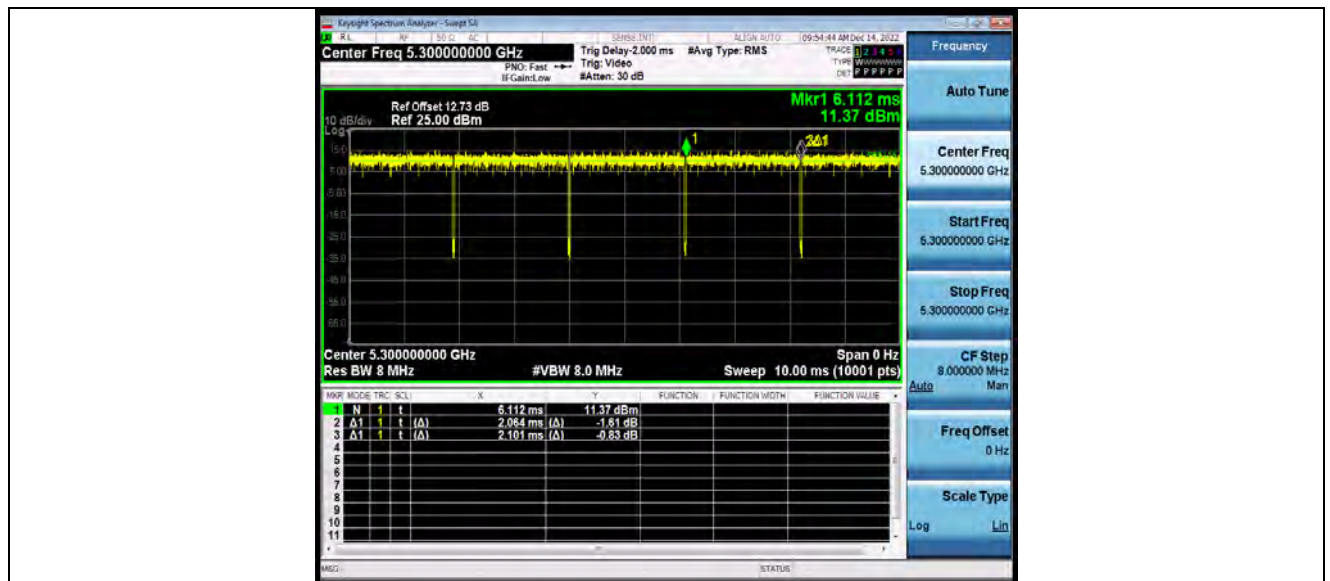


11A Ant1 5300

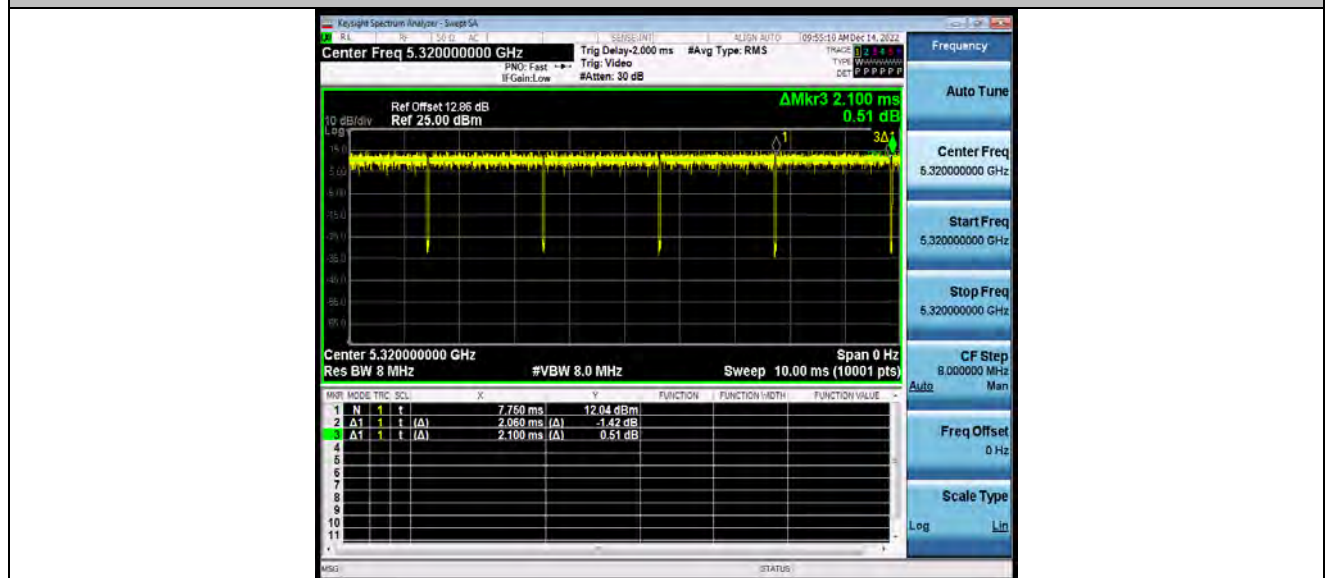


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Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5320

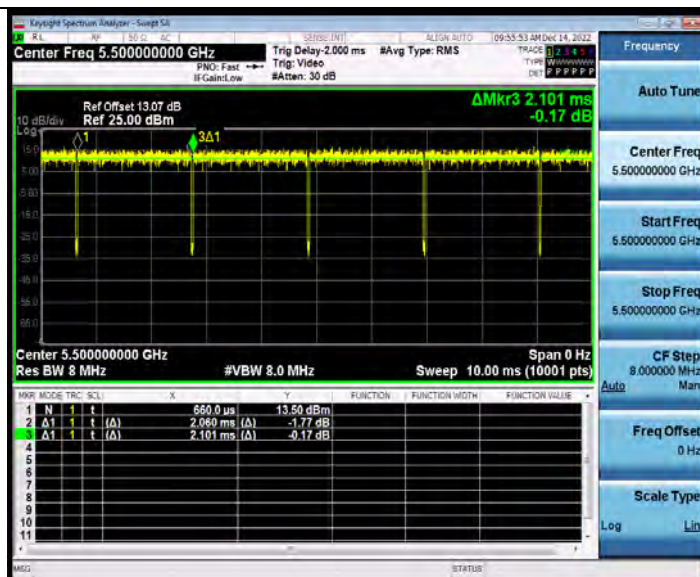


11A\_Ant1\_5500

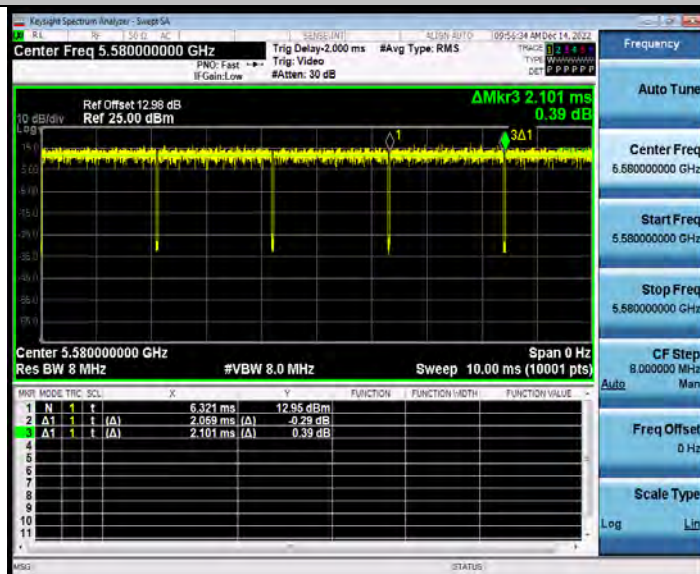


BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5580

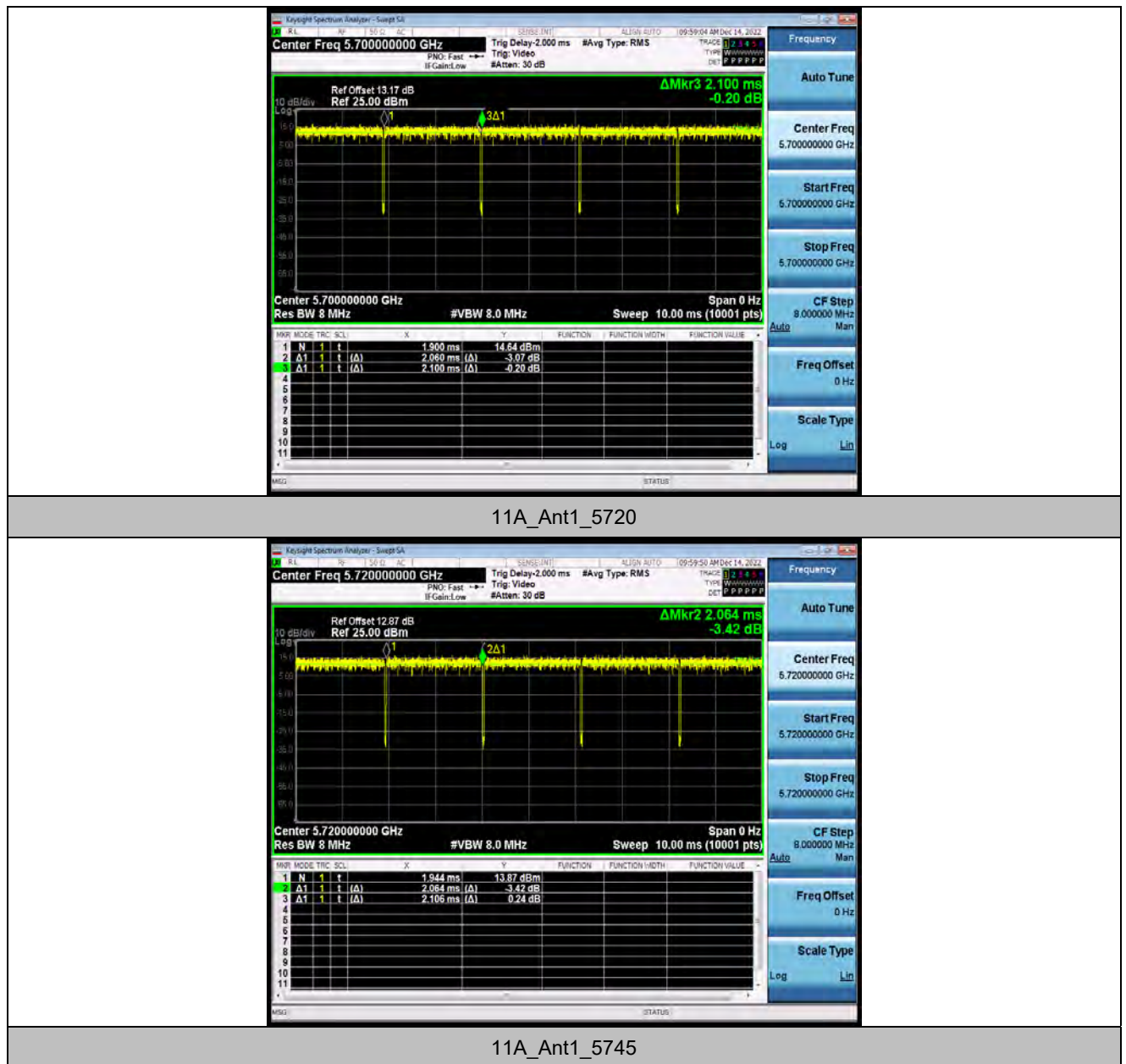


11A\_Ant1\_5700



BUREAU  
VERITAS

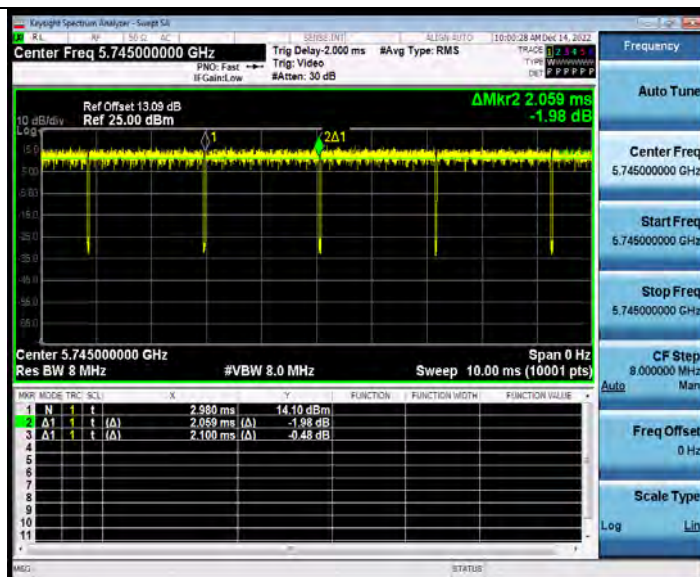
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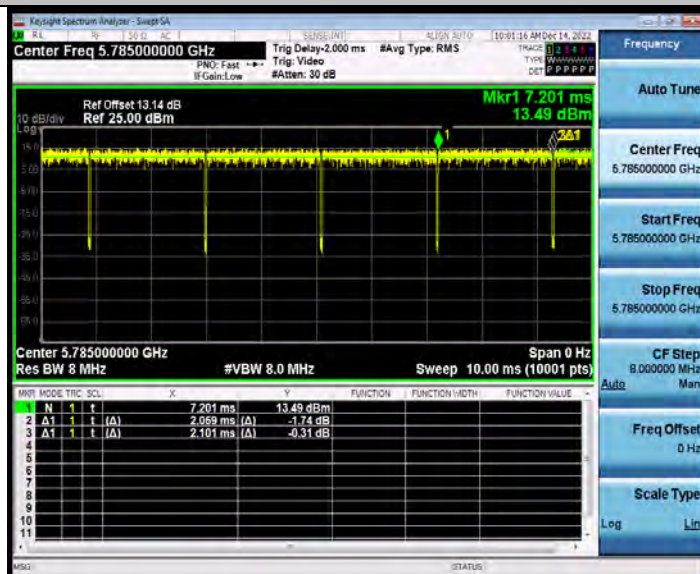


BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11A\_Ant1\_5785

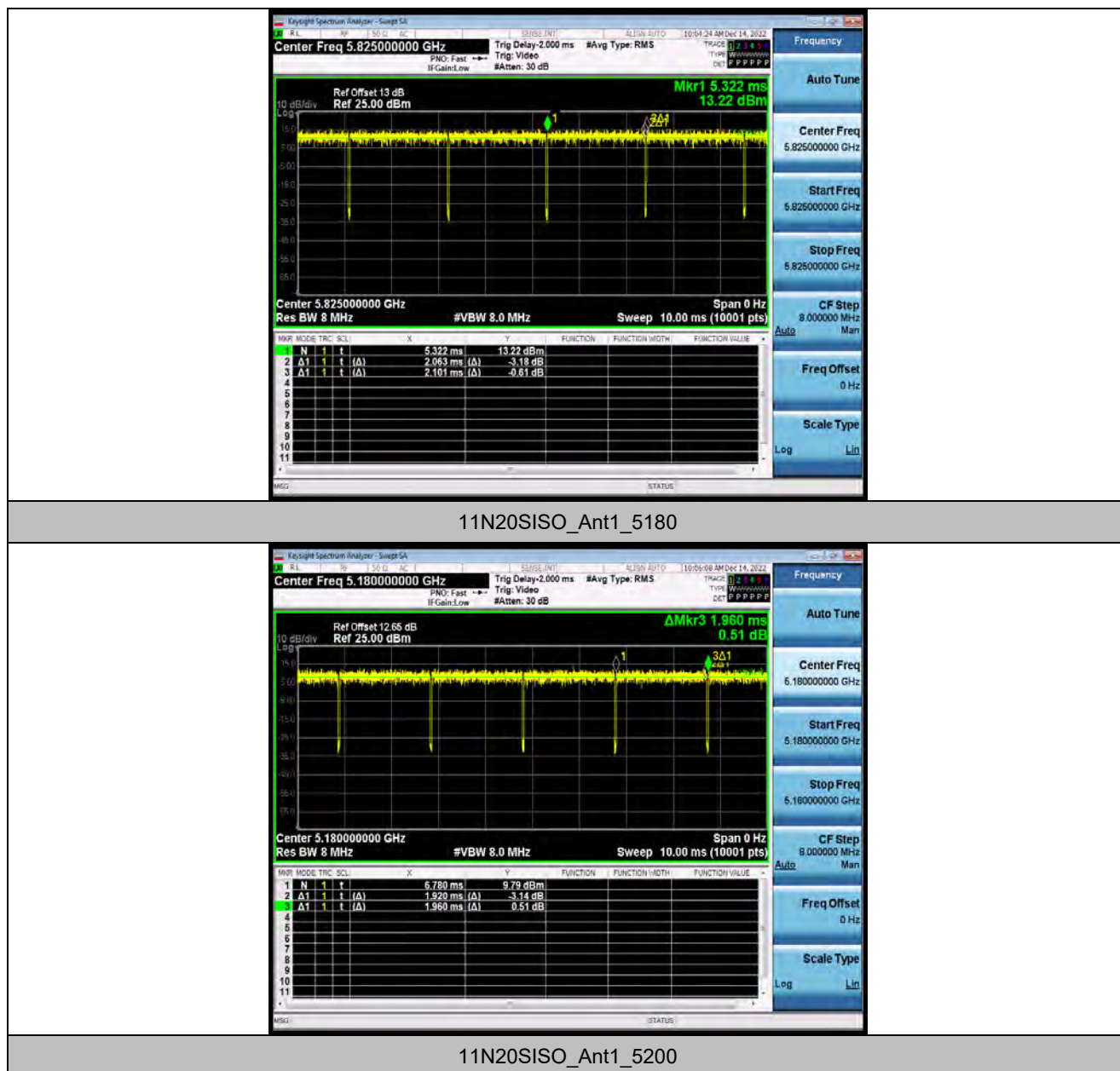


11A\_Ant1\_5825



BUREAU  
VERITAS

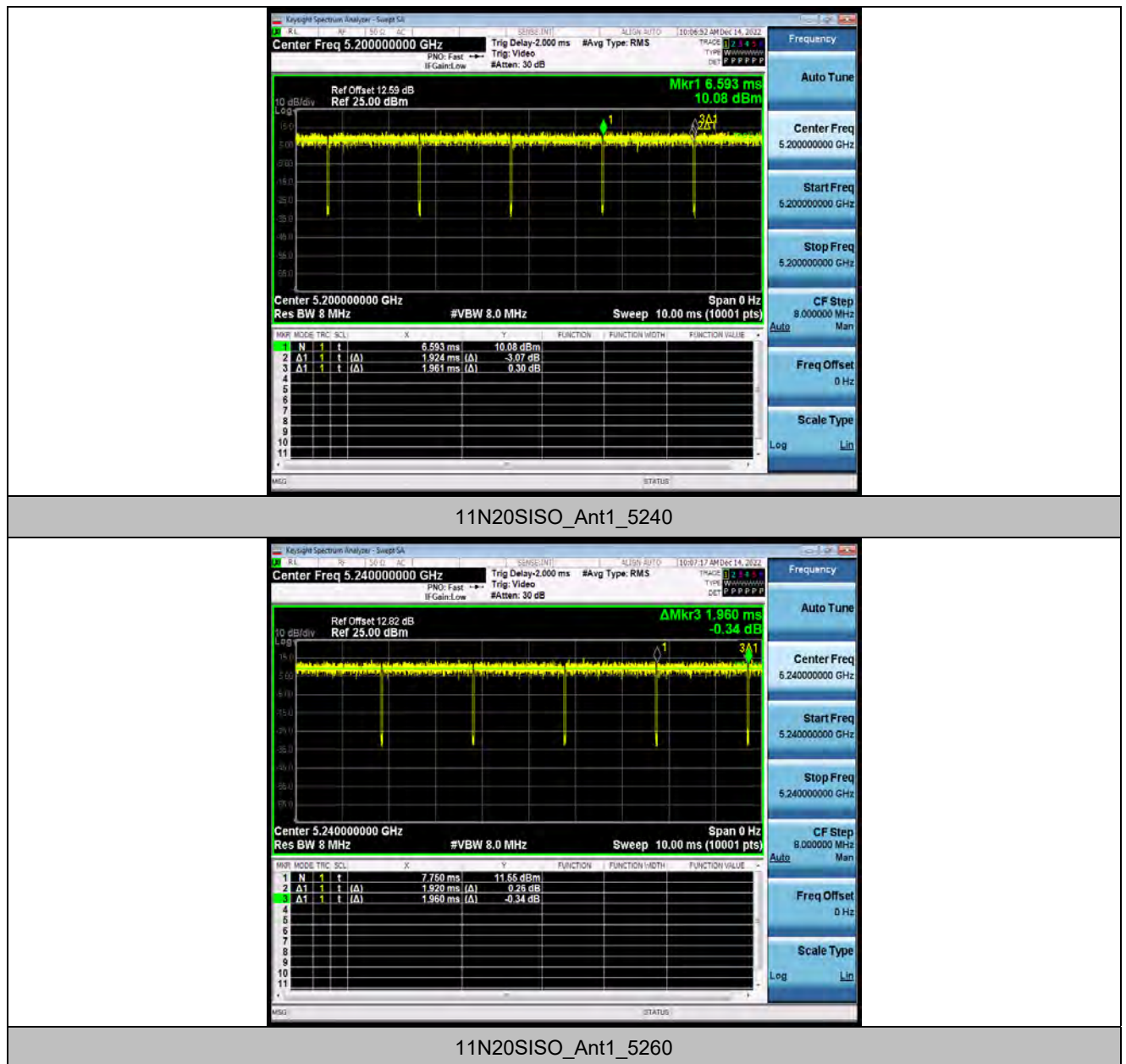
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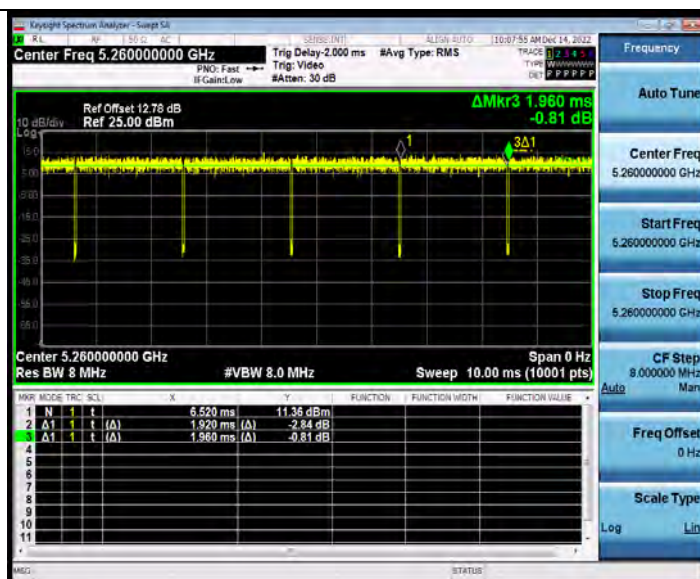
BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03

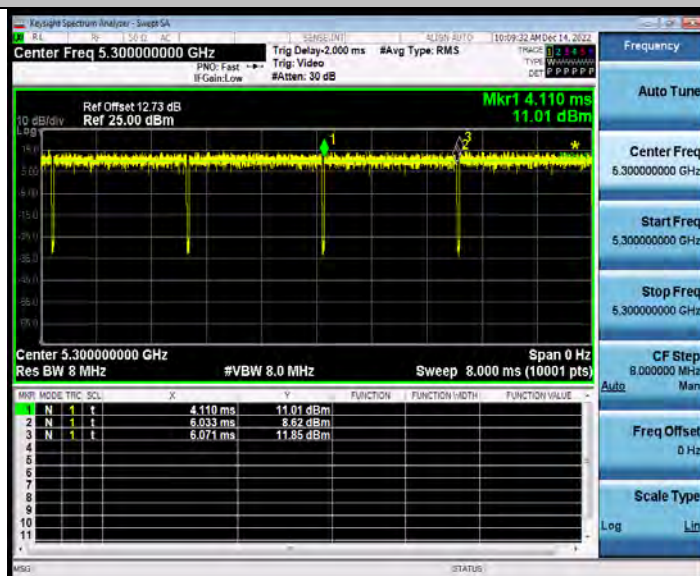




**Test Report No.: W7L-P22110037RF03**



11N20SISO\_Ant1\_5300

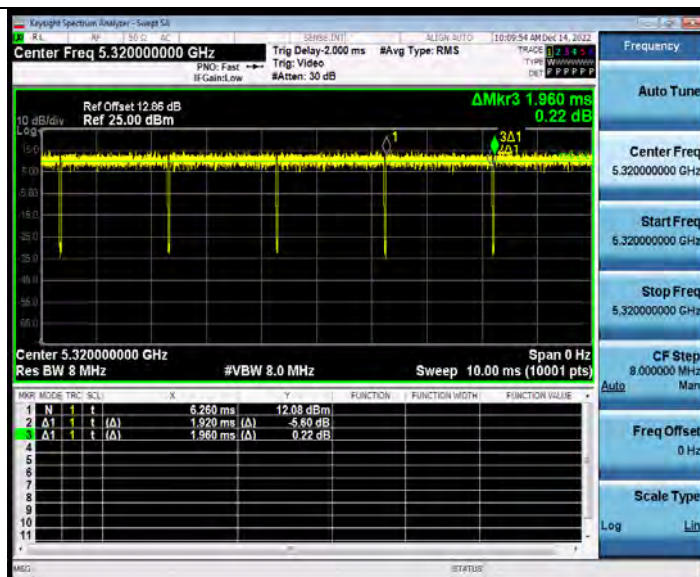


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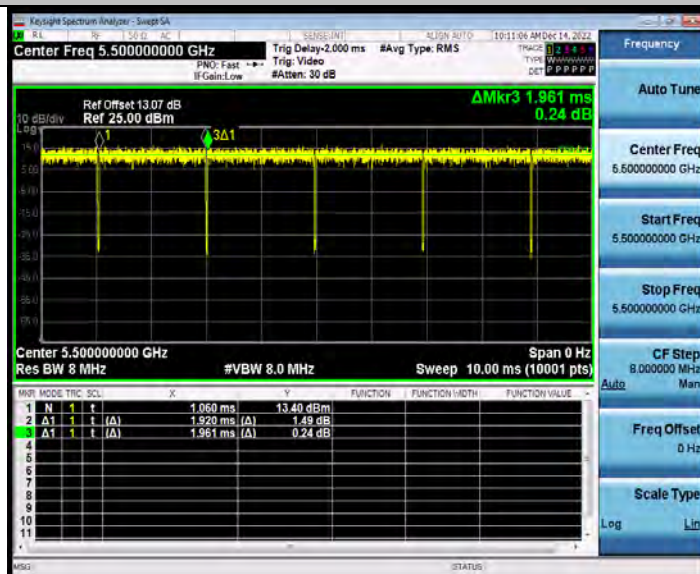


BUREAU  
VERITAS

Test Report No.: W7L-P22110037RF03



11N20SISO\_Ant1\_5500



11N20SISO\_Ant1\_5580