

# VARIANT FCC TEST REPORT

## (Part 15, Subpart E)

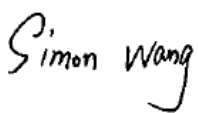
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|------------|----------------------------------------------------------------------------------------------------------------------------------------------|
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|                           |                                                                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer or Supplier: | Power Idea Technology (Shenzhen) Co., Ltd.                                                                                                   |
| Address:                  | 4th Floor, A Section, Languang Science&technology Building, No.7 Xinxi RD, Hi-Tech Industrial Park North, Nanshan District, ShenZhen, P.R.C. |
| Product:                  | Mobile phone                                                                                                                                 |
| Brand Name:               | RugGear                                                                                                                                      |
| Model Name:               | PSH03G                                                                                                                                       |
| FCC ID:                   | ZLE-PSH03G                                                                                                                                   |
| Date of tests:            | Apr. 01, 2024 ~ Jun. 25, 2024<br>Sep. 05, 2024 ~ Sep. 29, 2024                                                                               |

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: Sep. 29, 2024 | <br>Date: Sep. 29, 2024 |

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## RELEASE CONTROL RECORD

| ISSUE NO.         | REASON FOR CHANGE                                                                                                                                                                                                                                                                                                                                     | DATE ISSUED   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| W7L-P24030018RF03 | Original release                                                                                                                                                                                                                                                                                                                                      | Jun. 25, 2024 |
| W7L-P24090003RF03 | Based on the original product changing the applicant information, manufacturer information, model name, brand name and FCC ID, replace motherboard and battery(two types). The new sample only verify EIRP and RSE worst case and verify results of EIRP are similar or lower, So this report only update RSE worse case(802.11ax(80MHz) CH106) data. | Sep. 29, 2024 |

# 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)(9)                             | 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 |
| 15.407(a)(2)(12)                         | 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 please refer to Appendix C.
2. Preliminary Investigation scans were completed to compare Full RU Tone modes and Single User Tone modes. It was found that SU modes were the worst case over Full RU-Tone mode in every instance, and the physical waveforms of SU mode and FULL RU-Tone are the same, and both FULL RU-Tone mode have lower power than SU mode. Therefore, only SU mode was report as it is representative of Full RU-Tone worst case scenario.
3. RLAN 5G supports SISO&MIMO mode, the whole testing has assessed the MIMO mode by referring to their maximum conducted power.
4. For 802.11n HT20/ ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing is assessed only 802.11n HT20/ HT40 by referring to their higher conducted power.
5. Only the worse data was 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~1GHz)   | ±4.98dB     |
| Radiated emissions (1GHz ~6GHz)   | ±4.70dB     |
| Radiated emissions (6GHz ~18GHz)  | ±4.60dB     |
| Radiated emissions (18GHz ~40GHz) | ±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>             | Mobile phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>BRAND NAME</b>          | RugGear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>MODEL NAME</b>          | PSH03G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>NOMINAL VOLTAGE</b>     | 5Vdc (adapter or host equipment)<br>3.7Vdc (Li-ion, battery)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MODULATION</b>          | OFDM, OFDMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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 300.0Mbps<br>802.11ac: up to 1732Mbps<br>802.11ax: up to 2402Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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/ax (20MHz)/<br>802.11ax(20M RU 242)<br>2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M<br>RU 484)<br>1 for 802.11ac/ax (80MHz)/ 802.11ax(80M<br>RU996)<br>5260 ~ 5320MHz:<br>4 for 802.11a, 802.11n/ac/ax (20MHz)/<br>802.11ax(20M RU 242)<br>2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M<br>RU 484)<br>1 for 802.11ac/ax (80MHz)/ 802.11ax(80M<br>RU 996)<br>5500 ~ 5720MHz:<br>12 for 802.11a, 802.11n/ac/ax (20MHz)/<br>802.11ax(20M RU 242)<br>6 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M<br>RU 484)<br>3 for 802.11ac/ax (80MHz)/ 802.11ax(80M<br>RU 996)<br>5745 ~ 5825MHz:<br>5 for 802.11a, 802.11n/ac/ax (20MHz)/<br>802.11ax(20M RU 242)<br>2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M<br>RU 484)<br>1 for 802.11ac/ax (80MHz)/ 802.11ax(80MRU<br>996) |
| <b>MAX. OUTPUT POWER</b>   | 28.12mW for 5180 ~ 5240MHz<br>27.67mW for 5260 ~ 5320MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



|                       |                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | 31.33mW for 5500 ~ 5720MHz<br>25.00mW for 5745 ~ 5825MHz                                                                                                                                                                                                         |
| <b>ANTENNA TYPE</b>   | PIFA Antenna                                                                                                                                                                                                                                                     |
| <b>ANTENNA GAIN</b>   | ANT 8:<br>-0.4dBi for 5180 ~ 5240MHz<br>-0.4dBi for 5260 ~ 5320MHz<br>-0.4dBi for 5500 ~ 5720MHz<br>-0.4dBi for 5745 ~ 5825MHz<br>ANT 9:<br>-0.2dBi for 5180 ~ 5240MHz<br>-0.2dBi for 5260 ~ 5320MHz<br>-0.2dBi for 5500 ~ 5720MHz<br>-0.2dBi for 5745 ~ 5825MHz |
| <b>HW VERSION</b>     | V05                                                                                                                                                                                                                                                              |
| <b>SW VERSION</b>     | IS440_00.00_1_20240613                                                                                                                                                                                                                                           |
| <b>I/O PORTS</b>      | Refer to user's manual                                                                                                                                                                                                                                           |
| <b>CABLE SUPPLIED</b> | USB cable: with shielded cable, 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 MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

| MODULATION MODE             | TX FUNCTION |
|-----------------------------|-------------|
| 802.11a                     | 2TX/2RX     |
| 802.11n/802.11ac/ax (20MHz) | 2TX/2RX     |
| 802.11n/802.11ac/ax (40MHz) | 2TX/2RX     |
| 802.11ac/ax (80MHz)         | 2TX/2RX     |
| 802.11ax (20MHz RU 242)     | 2TX/2RX     |
| 802.11ax (40MHz RU 484)     | 2TX/2RX     |
| 802.11ax (80MHz RU 996)     | 2TX/2RX     |

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

**5. List of Accessory:**



Test Report No.: W7L-P24090003RF03

| ACCESSORIES | BRAND | MANUFACTURER                                            | MODEL           | SPECIFICATION                        |
|-------------|-------|---------------------------------------------------------|-----------------|--------------------------------------|
| AC Adapter  | N/A   | SHENZHEN SHI YINGYUAN POWER SUPPLY TECHNOLOGY CO., LTD. | ICP12-050-2000B | I/P: 100-240Vac, 0.5A, O/P: 5Vdc, 2A |
| Battery 1   | N/A   | FPR Connectivity Technology Inc.                        | BPIS440A.1A     | Capacity: 3.7Vdc, 2400mAh            |
| Battery 2   | N/A   | FPR Connectivity Technology Inc.                        | IS440.1H        | Capacity: 3.7Vdc, 4800mAh            |
| USB Cable   | N/A   | Winpower Technology Co., LTD                            | PROTECTOR 2.0   | Signal Line,1.0meter                 |

## 2.2 DESCRIPTION OF TEST MODES

### FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

| 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/ax (40MHz)/ 802.11ax (40MHz RU 484):

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

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996):

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

### FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

| 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/ax (40MHz)/ 802.11ax (40MHz RU 484):

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

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996):

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

### FOR 5500 ~ 5720MHz

12 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

| 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/ax (40MHz)/ 802.11ax (40MHz RU 484):

| 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/ax (80MHz)/ 802.11ax (80MHz RU 996):

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

### FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

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

3 channels are provided for 802.11n, 802.11ac/ax (40MHz)/ 802.11ax (40MHz RU 484):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 142     | 5710 MHz  | 159     | 5795 MHz  |
| 151     | 5755 MHz  |         |           |

2 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 138     | 5690 MHz  | 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).
- ☒ The 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                        | 802.11ax (80MHz) | 5500-5720              | 106 to 138           | 106               | 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).
- ☒ The 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, 40, 48         | OFDM        | 6.0                 |
| A                        | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU<br>242) |                     | 36 to 48             | 36, 40, 48         | OFDM, OFDMA | MCS0                |
| A                        | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU<br>484) |                     | 38 to 46             | 38, 46             | OFDM, OFDMA | MCS0                |
| A                        | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU<br>996)   |                     | 42                   | 42                 | OFDM, OFDMA | MCS0                |
| A                        | 802.11a                                              | 5260-5320           | 52 to 64             | 52, 60, 64         | OFDM        | 6.0                 |
| A                        | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU<br>242) |                     | 52 to 64             | 52, 60, 64         | OFDM, OFDMA | MCS0                |
| A                        | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU<br>484) |                     | 54 to 62             | 54, 62             | OFDM, OFDMA | MCS0                |
| A                        | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU<br>996)   |                     | 58                   | 58                 | OFDM, OFDMA | MCS0                |
| A                        | 802.11a                                              | 5500-5720           | 100 to 144           | 100, 116, 140, 144 | OFDM        | 6.0                 |
| A                        | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU<br>242) |                     | 100 to 144           | 100, 116, 140, 144 | OFDM, OFDMA | MCS0                |
| A                        | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU<br>484) |                     | 102 to 142           | 102, 110, 134, 142 | OFDM, OFDMA | MCS0                |
| A                        | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU<br>996)   |                     | 106 to 138           | 106, 122, 138      | OFDM, OFDMA | MCS0                |
| A                        | 802.11a                                              | 5745-5825           | 149 to 165           | 149, 157, 165      | OFDM        | 6.0                 |
| A                        | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU<br>242) |                     | 149 to 165           | 149, 157, 165      | OFDM, OFDMA | MCS0                |
| A                        | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU<br>484) |                     | 151 to 159           | 151, 159           | OFDM, OFDMA | MCS0                |
| A                        | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU<br>996)   |                     | 155                  | 155                | OFDM, OFDMA | 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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE             | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|--------------------|------------------|------------------|-------------------|----------------|------------|------------------|
| A                  | 802.11ax (80MHz) | 5500-5720        | 106 to 138        | 106            | 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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE                                              | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL     | MODULATION     | DATA RATE (Mbps) |
|--------------------|---------------------------------------------------|------------------|-------------------|--------------------|----------------|------------------|
| A                  | 802.11a                                           | 5180-5240        | 36 to 48          | 36, 40, 48         | OFDM           | 6.0              |
| A                  | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU 242) |                  | 36 to 48          | 36, 40, 48         | OFDM,<br>OFDMA | MCS0             |
| A                  | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU 484) |                  | 38 to 46          | 38, 46             | OFDM,<br>OFDMA | MCS0             |
| A                  | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU 996)   |                  | 42                | 42                 | OFDM,<br>OFDMA | MCS0             |
| A                  | 802.11a                                           | 5260-5320        | 52 to 64          | 52, 60, 64         | OFDM           | 6.0              |
| A                  | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU 242) |                  | 52 to 64          | 52, 60, 64         | OFDM,<br>OFDMA | MCS0             |
| A                  | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU 484) |                  | 54 to 62          | 54, 62             | OFDM,<br>OFDMA | MCS0             |
| A                  | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU 996)   |                  | 58                | 58                 | OFDM,<br>OFDMA | MCS0             |
| A                  | 802.11a                                           | 5500-5720        | 100 to 144        | 100, 116, 140, 144 | OFDM           | 6.0              |
| A                  | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU 242) |                  | 100 to 144        | 100, 116, 140, 144 | OFDM,<br>OFDMA | MCS0             |
| A                  | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU 484) |                  | 102 to 142        | 102, 110, 134, 142 | OFDM,<br>OFDMA | MCS0             |
| A                  | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU 996)   |                  | 106 to 138        | 106, 122, 138      | OFDM,<br>OFDMA | MCS0             |



|   |                                                   |           |            |              |                |      |
|---|---------------------------------------------------|-----------|------------|--------------|----------------|------|
|   | 996)                                              |           |            |              |                |      |
| A | 802.11a                                           | 5745-5825 | 149 to 165 | 149, 157,165 | OFDM           | 6.0  |
| A | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU 242) |           | 149 to 165 | 149, 157,165 | OFDM,<br>OFDMA | MCS0 |
| A | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU 484) |           | 151 to 159 | 151, 159     | OFDM,<br>OFDMA | MCS0 |
| A | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU 996)   |           | 155        | 155          | OFDM,<br>OFDMA | MCS0 |

**ANTENNA PORT CONDUCTED 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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.
- ☒ Only the power test item is tested for the FULL RU(802.11ax RU 242/484/996/2\*996), the remaining test items are configured as follows.

| EUT<br>CONFIGURE<br>MODE | MODE                                              | FREQ. BAND<br>(MHz) | AVAILABLE<br>CHANNEL | TESTED CHANNEL     | MODULATION     | DATA RATE (Mbps) |
|--------------------------|---------------------------------------------------|---------------------|----------------------|--------------------|----------------|------------------|
| B                        | 802.11a                                           | 5180-5240           | 36 to 48             | 36, 40, 48         | OFDM           | 6.0              |
| B                        | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU 242) |                     | 36 to 48             | 36, 40, 48         | OFDM,<br>OFDMA | MCS0             |
| B                        | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU 484) |                     | 38 to 46             | 38, 46             | OFDM,<br>OFDMA | MCS0             |
| B                        | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU 996)   |                     | 42                   | 42                 | OFDM,<br>OFDMA | MCS0             |
| B                        | 802.11a                                           | 5260-5320           | 52 to 64             | 52, 60, 64         | OFDM           | 6.0              |
| B                        | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU 242) |                     | 52 to 64             | 52, 60, 64         | OFDM,<br>OFDMA | MCS0             |
| B                        | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU 484) |                     | 54 to 62             | 54, 62             | OFDM,<br>OFDMA | MCS0             |
| B                        | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU 996)   |                     | 58                   | 58                 | OFDM,<br>OFDMA | MCS0             |
| B                        | 802.11a                                           | 5500-5720           | 100 to 144           | 100, 116, 140, 144 | OFDM           | 6.0              |
| B                        | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU 242) |                     | 100 to 144           | 100, 116, 140, 144 | OFDM,<br>OFDMA | MCS0             |



|   |                                                      |           |            |                   |                |      |
|---|------------------------------------------------------|-----------|------------|-------------------|----------------|------|
| B | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU<br>484) |           | 102 to 142 | 102, 110, 134,142 | OFDM,<br>OFDMA | MCS0 |
| B | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU<br>996)   |           | 106 to 138 | 106, 122, 138     | OFDM,<br>OFDMA | MCS0 |
| B | 802.11a                                              | 5745-5825 | 149 to 165 | 149, 157,165      | OFDM           | 6.0  |
| B | 802.11n/ac/ax (20MHz)/<br>802.11ax (20MHz RU<br>242) |           | 149 to 165 | 149, 157,165      | OFDM,<br>OFDMA | MCS0 |
| B | 802.11n/ac/ax (40MHz)/<br>802.11ax (40MHz RU<br>484) |           | 151 to 159 | 151, 159          | OFDM,<br>OFDMA | MCS0 |
| B | 802.11ac/ax (80MHz)/<br>802.11ax (80MHz RU<br>996)   |           | 155        | 155               | OFDM,<br>OFDMA | MCS0 |



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**TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER        | TESTED BY |
|---------------|--------------------------|--------------------|-----------|
| RE<1G         | 23deg. C, 70%RH          | DC 5V By Adapter   | Jace Hu   |
| RE≥1G         | 23deg. C, 70%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  |



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## 2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix C.

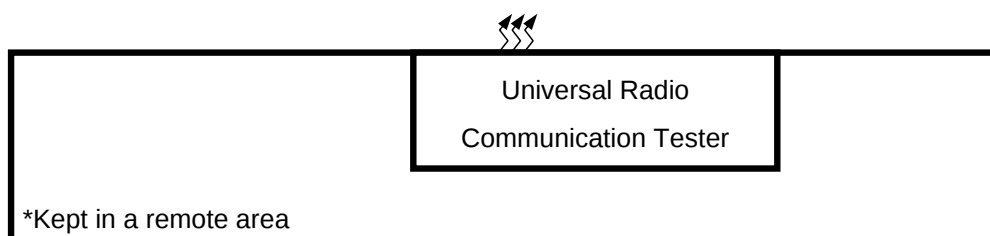
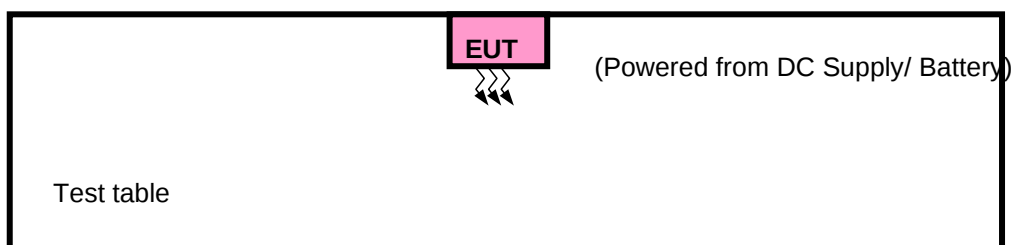
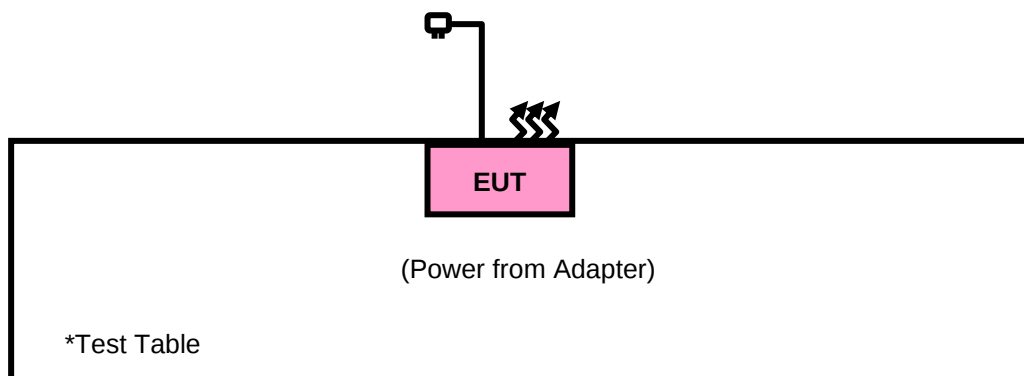
## 2.4 DESCRIPTION OF SUPPORT UNITS

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     | ThinkpadL440 | 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 C63.10-2020**

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:

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

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

**#1:**

| Equipment                  | Manufacturer | Model No.                   | Serial No.                  | Last Cal.  | Next Cal.  |
|----------------------------|--------------|-----------------------------|-----------------------------|------------|------------|
| 3m Semi-anechoic Chamber   | ETS-LINDGREN | 9m*6m*6m                    | Euroshieldpn-CT0001143-1216 | Nov. 14,23 | Nov. 13,26 |
| Bilog Antenna              | ETS-LINDGREN | 3143B                       | 00161965                    | Feb. 18,24 | Feb. 17,25 |
| Horn Antenna               | ETS-LINDGREN | 3117                        | 00168692                    | Feb. 18,24 | Feb. 17,25 |
| Horn Antenna (18GHz-40GHz) | N/A          | QWH-SL-18-40-K-SG/QMS-00361 | 15433                       | Sep.04, 23 | Sep.03, 24 |
| 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                | N/A                         | May. 06,23 | May. 05,24 |
| 10dB Attenuator            | JFW/USA      | 50HF-010-SMA                | N/A                         | May. 05,24 | May. 04,25 |
| MXE EMI Receiver           | KEYSIGHT     | N9038A-544                  | MY54450026                  | Mar. 28,24 | Mar. 27,25 |
| Signal Pre-Amplifier       | EMSI         | EMC 9135                    | 980249                      | May. 06,23 | May. 05,24 |
| Signal Pre-Amplifier       | EMSI         | EMC 9135                    | 980249                      | May. 05,24 | May. 04,25 |
| Signal Pre-Amplifier       | EMSI         | EMC 012645B                 | 980257                      | May.10,23  | May.09,24  |
| Signal Pre-Amplifier       | EMSI         | EMC 012645B                 | 980257                      | May.09,24  | May.08,25  |
| Signal Pre-Amplifier       | EMSI         | EMC 184045B                 | 980259                      | Feb. 17,24 | Feb. 16,25 |
| DC Source                  | Kikusui/JP   | PMX18-5A                    | 0000001                     | Aug. 12,23 | Aug. 11,24 |
| Power Meter                | Anritsu      | ML2495A                     | 1506002                     | Feb. 14,24 | Feb. 13,25 |
| Power Sensor               | Anritsu      | MA2411B                     | 1339352                     | Feb. 14,24 | Feb. 13,25 |
| Loop Antenna               | Schwarzbeck  | FMZB 1519B                  | 00173                       | Sep.03,23  | Sep.02,24  |



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### #2:

| Equipment                  | Manufacturer | Model No.                   | Serial No.                  | Last Cal.  | Next Cal.  |
|----------------------------|--------------|-----------------------------|-----------------------------|------------|------------|
| 3m Semi-anechoic Chamber   | ETS-LINDGREN | 9m*6m*6m                    | Euroshieldpn-CT0001143-1216 | Nov. 14,23 | Nov. 13,26 |
| Bilog Antenna              | ETS-LINDGREN | 3143B                       | 00161965                    | Feb. 18,24 | Feb. 17,25 |
| Horn Antenna               | ETS-LINDGREN | 3117                        | 00168692                    | Feb. 18,24 | Feb. 17,25 |
| Horn Antenna (18GHz-40GHz) | N/A          | QWH-SL-18-40-K-SG/QMS-00361 | 15433                       | Sep.04, 24 | Sep.03, 25 |
| 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                | N/A                         | May. 06,24 | May. 05,25 |
| MXE EMI Receiver           | KEYSIGHT     | N9038A-544                  | MY54450026                  | Mar. 28,24 | Mar. 27,25 |
| Signal Pre-Amplifier       | EMSI         | EMC 9135                    | 980249                      | May. 06,24 | May. 05,25 |
| Signal Pre-Amplifier       | EMSI         | EMC 012645B                 | 980257                      | May.10,24  | May.09,25  |
| Signal Pre-Amplifier       | EMSI         | EMC 184045B                 | 980259                      | Feb. 17,24 | Feb. 16,25 |
| DC Source                  | Kikusui/JP   | PMX18-5A                    | 0000001                     | Aug. 12,24 | Aug. 11,25 |
| Power Meter                | Anritsu      | ML2495A                     | 1506002                     | Feb. 14,24 | Feb. 13,25 |
| Power Sensor               | Anritsu      | MA2411B                     | 1339352                     | Feb. 14,24 | Feb. 13,25 |
| Loop Antenna               | Schwarzbeck  | FMZB 1519B                  | 00173                       | Sep.03,24  | Sep.02,25  |

- 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:**

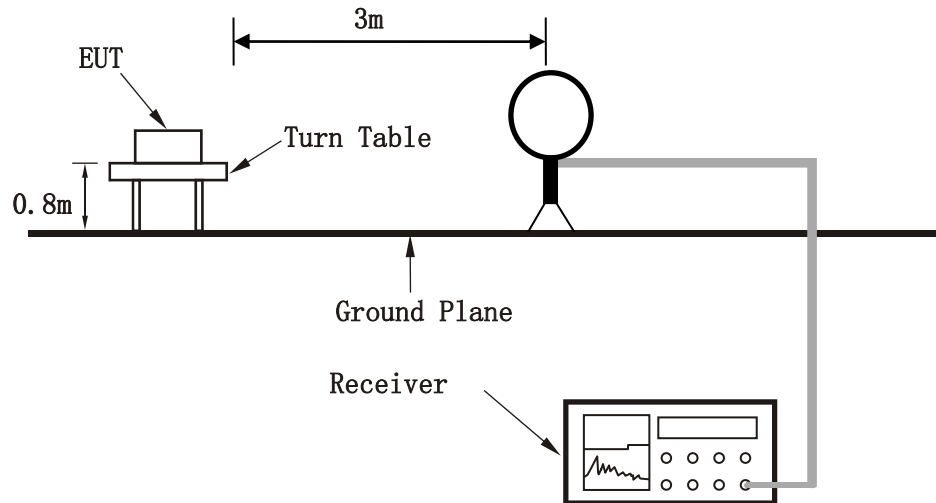
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency 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

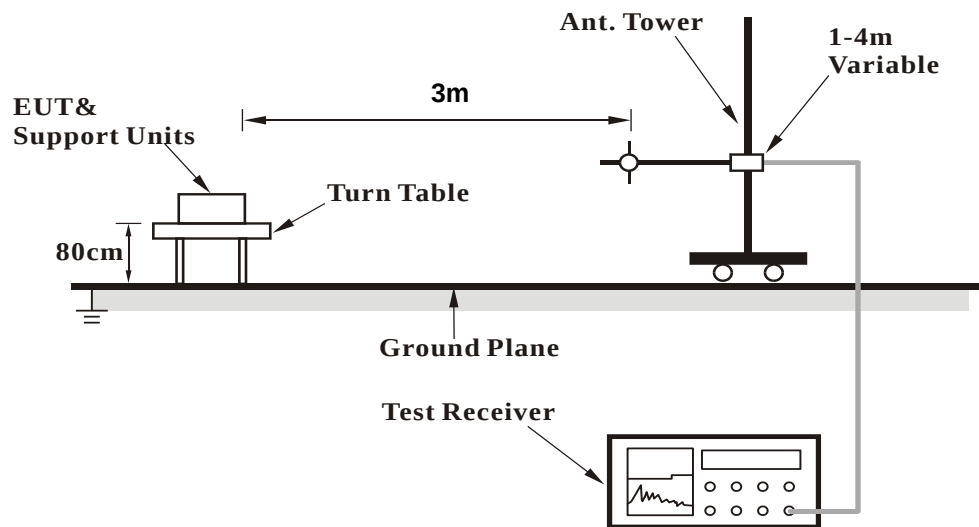
No deviation.

### 3.1.6 TEST SETUP

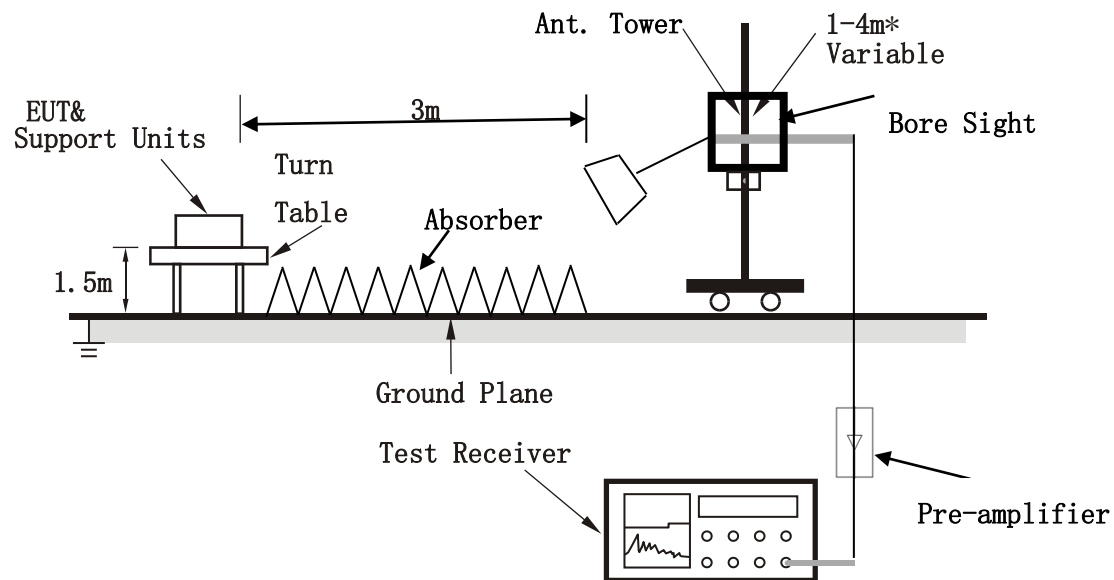
#### <Frequency Range 9KHz~30MHz >



#### < 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 it 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 3

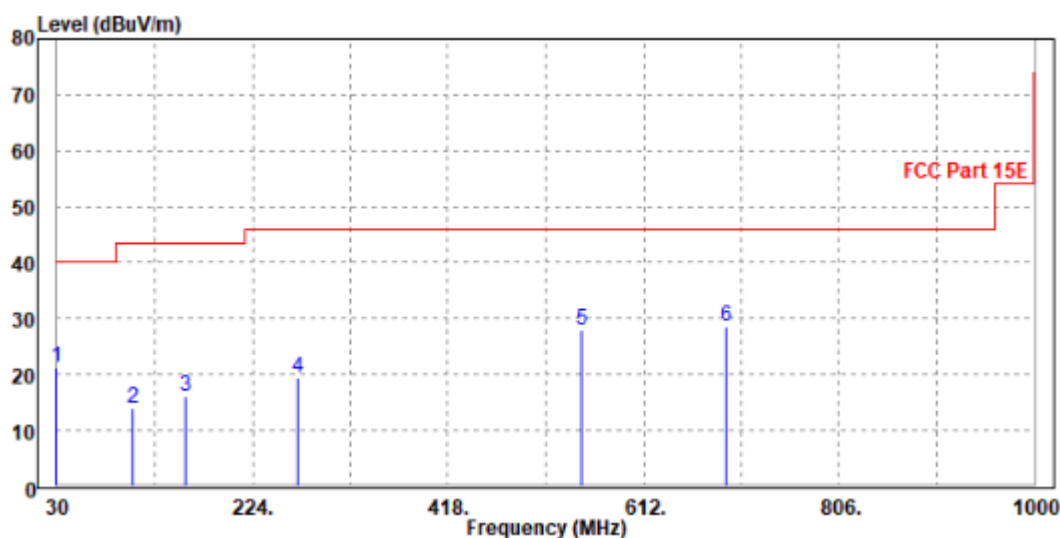
802.11ax (80MHz):

|                 |                |                   |                 |
|-----------------|----------------|-------------------|-----------------|
| CHANNEL         | TX Channel 106 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 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 |
| 30                                                  | 21.36                         | 27.67                   | 40                | -18.64         | 25                           | 6.13                  | 37.44                    | 100                       | 360                        | Peak   |
| 105.66                                              | 13.98                         | 29.29                   | 43.5              | -29.52         | 15                           | 6.56                  | 36.87                    | 100                       | 360                        | Peak   |
| 157.07                                              | 16                            | 28.91                   | 43.5              | -27.5          | 17                           | 6.79                  | 36.7                     | 100                       | 360                        | Peak   |
| 268.62                                              | 19.39                         | 29.51                   | 46                | -26.61         | 19.26                        | 7.21                  | 36.59                    | 100                       | 360                        | Peak   |
| 550.89                                              | 27.95                         | 29.97                   | 46                | -18.05         | 27.05                        | 8.09                  | 37.16                    | 100                       | 360                        | Peak   |
| 694.45                                              | 28.74                         | 28.43                   | 46                | -17.26         | 29.38                        | 8.37                  | 37.44                    | 100                       | 360                        | Peak   |

#### 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.



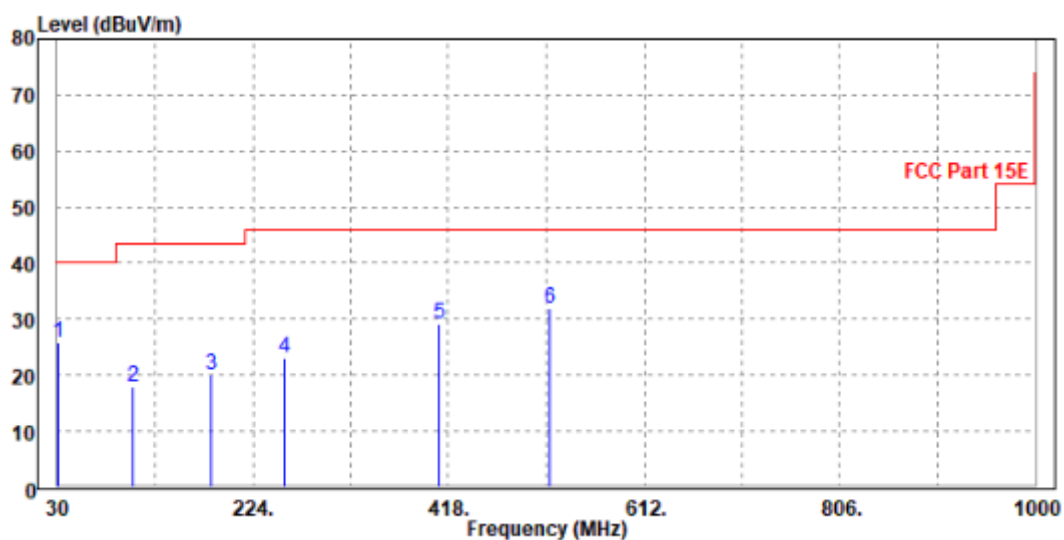


|                 |              |                   |                 |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL         | Channel 106  | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 30MHz ~ 1GHz |                   |                 |

| 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 |
| 30.97                                             | 25.83                         | 32.51                   | 40                | -14.17         | 24.61                        | 6.14                  | 37.43                    | 100                       | 0                          | Peak   |
| 105.66                                            | 18.05                         | 33.36                   | 43.5              | -25.45         | 15                           | 6.56                  | 36.87                    | 100                       | 0                          | Peak   |
| 183.26                                            | 19.95                         | 33.8                    | 43.5              | -23.55         | 15.9                         | 6.87                  | 36.62                    | 100                       | 0                          | Peak   |
| 256.01                                            | 23.07                         | 33.58                   | 46                | -22.93         | 18.9                         | 7.17                  | 36.58                    | 100                       | 0                          | Peak   |
| 409.27                                            | 29.07                         | 34.58                   | 46                | -16.93         | 23.59                        | 7.6                   | 36.7                     | 100                       | 0                          | Peak   |
| 518.88                                            | 31.88                         | 35.23                   | 46                | -14.12         | 25.79                        | 8                     | 37.14                    | 100                       | 0                          | Peak   |

**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.





Test Report No.: W7L-P24090003RF03

# 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. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 53.06                   | 54.15             | 74.00          | -20.94      | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Peak    |
| 5150                                                | 45.49                   | 46.58             | 54.00          | -8.51       | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Average |
| 5180                                                | 105.42                  | 106.48            | /              | /           | 34.27                  | 11.20           | 46.53              | 100                 | 320                  | Peak    |
| 5180                                                | 97.86                   | 98.92             | /              | /           | 34.27                  | 11.20           | 46.53              | 100                 | 320                  | Average |
| 5350                                                | 52.42                   | 53.27             | 74.00          | -21.58      | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Peak    |
| 5350                                                | 45.25                   | 46.10             | 54.00          | -8.75       | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 54.30                   | 55.23             | 74.00          | -19.70      | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Peak    |
| 5150                                                | 45.86                   | 46.79             | 54.00          | -8.14       | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Average |
| 5180                                                | 103.99                  | 104.88            | /              | /           | 34.44                  | 11.20           | 46.53              | 100                 | 25                   | Peak    |
| 5180                                                | 92.90                   | 93.79             | /              | /           | 34.44                  | 11.20           | 46.53              | 100                 | 25                   | Average |
| 5350                                                | 54.04                   | 54.65             | 74.00          | -19.96      | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Peak    |
| 5350                                                | 45.63                   | 46.24             | 54.00          | -8.37       | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Average |

## REMARKS:

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



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Test Report No.: W7L-P24090003RF03

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 52.26                         | 53.35                   | 74.00             | -21.74         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.53                         | 46.62                   | 54.00             | -8.47          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5200                                                | 105.06                        | 106.10                  | /                 | /              | 34.28                        | 11.22                 | 46.54                    | 100                       | 320                        | Peak    |
| 5200                                                | 97.62                         | 98.66                   | /                 | /              | 34.28                        | 11.22                 | 46.54                    | 100                       | 320                        | Average |
| 5350                                                | 53.66                         | 54.51                   | 74.00             | -20.34         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.27                         | 46.12                   | 54.00             | -8.73          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.13                         | 53.06                   | 74.00             | -21.87         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.32                         | 46.25                   | 54.00             | -8.68          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5200                                                | 103.80                        | 104.66                  | /                 | /              | 34.46                        | 11.22                 | 46.54                    | 100                       | 25                         | Peak    |
| 5200                                                | 92.82                         | 93.68                   | /                 | /              | 34.46                        | 11.22                 | 46.54                    | 100                       | 25                         | Average |
| 5350                                                | 52.23                         | 52.84                   | 74.00             | -21.77         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.69                         | 46.30                   | 54.00             | -8.31          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | 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. (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                                                | 52.37                         | 53.46                   | 74.00             | -21.63         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.34                         | 46.43                   | 54.00             | -8.66          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5240                                                | 104.64                        | 105.62                  | /                 | /              | 34.30                        | 11.27                 | 46.55                    | 100                       | 320                        | Peak    |
| 5240                                                | 97.22                         | 98.20                   | /                 | /              | 34.30                        | 11.27                 | 46.55                    | 100                       | 320                        | Average |
| 5350                                                | 53.80                         | 54.65                   | 74.00             | -20.20         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.53                         | 46.38                   | 54.00             | -8.47          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.80                         | 53.73                   | 74.00             | -21.20         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.47                         | 46.40                   | 54.00             | -8.53          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5240                                                | 103.53                        | 104.32                  | /                 | /              | 34.49                        | 11.27                 | 46.55                    | 100                       | 25                         | Peak    |
| 5240                                                | 94.84                         | 95.63                   | /                 | /              | 34.49                        | 11.27                 | 46.55                    | 100                       | 25                         | Average |
| 5350                                                | 53.61                         | 54.22                   | 74.00             | -20.39         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.64                         | 46.25                   | 54.00             | -8.36          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



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Test Report No.: W7L-P24090003RF03

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. (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                                                | 53.15                         | 54.24                   | 74.00             | -20.85         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.37                         | 46.46                   | 54.00             | -8.63          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5180                                                | 102.71                        | 103.77                  | /                 | /              | 34.27                        | 11.20                 | 46.53                    | 100                       | 320                        | Peak    |
| 5180                                                | 95.36                         | 96.42                   | /                 | /              | 34.27                        | 11.20                 | 46.53                    | 100                       | 320                        | Average |
| 5350                                                | 52.56                         | 53.41                   | 74.00             | -21.44         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.49                         | 46.34                   | 54.00             | -8.51          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 53.30                         | 54.23                   | 74.00             | -20.70         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 46.49                         | 47.42                   | 54.00             | -7.51          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5180                                                | 101.53                        | 102.42                  | /                 | /              | 34.44                        | 11.20                 | 46.53                    | 100                       | 20                         | Peak    |
| 5180                                                | 94.06                         | 94.95                   | /                 | /              | 34.44                        | 11.20                 | 46.53                    | 100                       | 20                         | Average |
| 5350                                                | 54.60                         | 55.21                   | 74.00             | -19.40         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.59                         | 46.20                   | 54.00             | -8.41          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



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**Test Report No.: W7L-P24090003RF03**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 54.19                         | 55.28                   | 74.00             | -19.81         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.48                         | 46.57                   | 54.00             | -8.52          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5200                                                | 102.45                        | 103.49                  | /                 | /              | 34.28                        | 11.22                 | 46.54                    | 100                       | 320                        | Peak    |
| 5200                                                | 94.65                         | 95.69                   | /                 | /              | 34.28                        | 11.22                 | 46.54                    | 100                       | 320                        | Average |
| 5350                                                | 52.80                         | 53.65                   | 74.00             | -21.20         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 46.00                         | 46.85                   | 54.00             | -8.00          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 53.51                         | 54.44                   | 74.00             | -20.49         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.60                         | 46.53                   | 54.00             | -8.40          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5200                                                | 100.87                        | 101.73                  | /                 | /              | 34.46                        | 11.22                 | 46.54                    | 100                       | 20                         | Peak    |
| 5200                                                | 93.44                         | 94.30                   | /                 | /              | 34.46                        | 11.22                 | 46.54                    | 100                       | 20                         | Average |
| 5350                                                | 54.26                         | 54.87                   | 74.00             | -19.74         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.41                         | 46.02                   | 54.00             | -8.59          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



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Test Report No.: W7L-P24090003RF03

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 52.46                         | 53.55                   | 74.00             | -21.54         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.58                         | 46.67                   | 54.00             | -8.42          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5240                                                | 102.89                        | 103.87                  | /                 | /              | 34.30                        | 11.27                 | 46.55                    | 100                       | 320                        | Peak    |
| 5240                                                | 94.65                         | 95.63                   | /                 | /              | 34.30                        | 11.27                 | 46.55                    | 100                       | 320                        | Average |
| 5350                                                | 53.69                         | 54.54                   | 74.00             | -20.31         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.48                         | 46.33                   | 54.00             | -8.52          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.31                         | 53.24                   | 74.00             | -21.69         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.62                         | 46.55                   | 54.00             | -8.38          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5240                                                | 100.66                        | 101.45                  | /                 | /              | 34.49                        | 11.27                 | 46.55                    | 100                       | 20                         | Peak    |
| 5240                                                | 93.42                         | 94.21                   | /                 | /              | 34.49                        | 11.27                 | 46.55                    | 100                       | 20                         | Average |
| 5350                                                | 54.04                         | 54.65                   | 74.00             | -19.96         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.69                         | 46.30                   | 54.00             | -8.31          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



Test Report No.: W7L-P24090003RF03

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. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 52.14                   | 53.23             | 74.00          | -21.86      | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Peak    |
| 5150                                                | 45.74                   | 46.83             | 54.00          | -8.26       | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Average |
| 5190                                                | 98.33                   | 99.37             | /              | /           | 34.28                  | 11.21           | 46.53              | 100                 | 320                  | Peak    |
| 5190                                                | 92.53                   | 93.57             | /              | /           | 34.28                  | 11.21           | 46.53              | 100                 | 320                  | Average |
| 5350                                                | 51.81                   | 52.66             | 74.00          | -22.19      | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Peak    |
| 5350                                                | 45.25                   | 46.10             | 54.00          | -8.75       | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 51.60                   | 52.53             | 74.00          | -22.40      | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Peak    |
| 5150                                                | 45.59                   | 46.52             | 54.00          | -8.41       | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Average |
| 5190                                                | 96.74                   | 97.61             | /              | /           | 34.45                  | 11.21           | 46.53              | 100                 | 20                   | Peak    |
| 5190                                                | 90.40                   | 91.27             | /              | /           | 34.45                  | 11.21           | 46.53              | 100                 | 20                   | Average |
| 5350                                                | 50.97                   | 51.58             | 74.00          | -23.03      | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | Peak    |
| 5350                                                | 45.73                   | 46.34             | 54.00          | -8.27       | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | Average |

**REMARKS:**

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



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**Test Report No.: W7L-P24090003RF03**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 51.02                         | 52.11                   | 74.00             | -22.98         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.48                         | 46.57                   | 54.00             | -8.52          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5230                                                | 98.55                         | 99.54                   | /                 | /              | 34.29                        | 11.26                 | 46.54                    | 100                       | 320                        | Peak    |
| 5230                                                | 92.25                         | 93.24                   | /                 | /              | 34.29                        | 11.26                 | 46.54                    | 100                       | 320                        | Average |
| 5350                                                | 51.18                         | 52.03                   | 74.00             | -22.82         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.36                         | 46.21                   | 54.00             | -8.64          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 51.39                         | 52.32                   | 74.00             | -22.61         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.46                         | 46.39                   | 54.00             | -8.54          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5230                                                | 97.28                         | 98.08                   | /                 | /              | 34.48                        | 11.26                 | 46.54                    | 100                       | 20                         | Peak    |
| 5230                                                | 90.96                         | 91.76                   | /                 | /              | 34.48                        | 11.26                 | 46.54                    | 100                       | 20                         | Average |
| 5350                                                | 53.25                         | 53.86                   | 74.00             | -20.75         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.64                         | 46.25                   | 54.00             | -8.36          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



Test Report No.: W7L-P24090003RF03

802.11ax (20MHz)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |         |
|-----------------------------------------------------|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|---------|
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 52.64                   | 53.73             | 74.00          | -21.36      | 34.26                  | 11.17           | 46.52              | 1000                | 320                  | Peak    |
| 5150                                                | 46.09                   | 47.18             | 54.00          | -7.91       | 34.26                  | 11.17           | 46.52              | 1000                | 320                  | Average |
| 5180                                                | 104.81                  | 105.87            | /              | /           | 34.27                  | 11.20           | 46.53              | 1000                | 320                  | Peak    |
| 5180                                                | 94.25                   | 95.31             | /              | /           | 34.27                  | 11.20           | 46.53              | 1000                | 320                  | Average |
| 5350                                                | 53.35                   | 54.20             | 74.00          | -20.65      | 34.34                  | 11.39           | 46.58              | 1000                | 320                  | Peak    |
| 5350                                                | 45.46                   | 46.31             | 54.00          | -8.54       | 34.34                  | 11.39           | 46.58              | 1000                | 320                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 52.06                   | 52.99             | 74.00          | -21.94      | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Peak    |
| 5150                                                | 45.65                   | 46.58             | 54.00          | -8.35       | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Average |
| 5180                                                | 102.88                  | 103.77            | /              | /           | 34.44                  | 11.20           | 46.53              | 100                 | 20                   | Peak    |
| 5180                                                | 92.67                   | 93.56             | /              | /           | 34.44                  | 11.20           | 46.53              | 100                 | 20                   | Average |
| 5350                                                | 53.82                   | 54.43             | 74.00          | -20.18      | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | Peak    |
| 5350                                                | 45.71                   | 46.32             | 54.00          | -8.29       | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | Average |

**REMARKS:**

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



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**Test Report No.: W7L-P24090003RF03**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 50.87                         | 51.96                   | 74.00             | -23.13         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.21                         | 46.30                   | 54.00             | -8.79          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5200                                                | 103.10                        | 104.12                  | /                 | /              | 34.28                        | 11.24                 | 46.54                    | 100                       | 320                        | Peak    |
| 5200                                                | 93.72                         | 94.76                   | /                 | /              | 34.28                        | 11.22                 | 46.54                    | 100                       | 320                        | Average |
| 5350                                                | 51.49                         | 52.34                   | 74.00             | -22.51         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.30                         | 46.15                   | 54.00             | -8.70          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.04                         | 52.97                   | 74.00             | -21.96         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.31                         | 46.24                   | 54.00             | -8.69          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5200                                                | 101.04                        | 101.90                  | /                 | /              | 34.46                        | 11.22                 | 46.54                    | 100                       | 20                         | Peak    |
| 5200                                                | 92.16                         | 93.02                   | /                 | /              | 34.46                        | 11.22                 | 46.54                    | 100                       | 20                         | Average |
| 5350                                                | 52.08                         | 52.69                   | 74.00             | -21.92         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.45                         | 46.06                   | 54.00             | -8.55          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



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Test Report No.: W7L-P24090003RF03

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 54.54                         | 55.63                   | 74.00             | -19.46         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.43                         | 46.52                   | 54.00             | -8.57          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5240                                                | 102.17                        | 103.15                  | /                 | /              | 34.30                        | 11.27                 | 46.55                    | 100                       | 320                        | Peak    |
| 5240                                                | 93.60                         | 94.58                   | /                 | /              | 34.30                        | 11.27                 | 46.55                    | 100                       | 320                        | Average |
| 5350                                                | 53.41                         | 54.26                   | 74.00             | -20.59         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.46                         | 46.31                   | 54.00             | -8.54          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.23                         | 53.16                   | 74.00             | -21.77         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.46                         | 46.39                   | 54.00             | -8.54          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5240                                                | 100.95                        | 101.74                  | /                 | /              | 34.49                        | 11.27                 | 46.55                    | 100                       | 20                         | Peak    |
| 5240                                                | 92.28                         | 93.07                   | /                 | /              | 34.49                        | 11.27                 | 46.55                    | 100                       | 20                         | Average |
| 5350                                                | 53.12                         | 53.73                   | 74.00             | -20.88         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.62                         | 46.23                   | 54.00             | -8.38          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



**802.11ax (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. (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                                                | 52.66                         | 53.75                   | 74.00             | -21.34         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.75                         | 46.84                   | 54.00             | -8.25          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5190                                                | 99.36                         | 100.40                  | /                 | /              | 34.28                        | 11.21                 | 46.53                    | 100                       | 320                        | Peak    |
| 5190                                                | 91.62                         | 92.66                   | /                 | /              | 34.28                        | 11.21                 | 46.53                    | 100                       | 320                        | Average |
| 5350                                                | 52.77                         | 53.62                   | 74.00             | -21.23         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.54                         | 46.39                   | 54.00             | -8.46          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 51.01                         | 51.94                   | 74.00             | -22.99         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.80                         | 46.73                   | 54.00             | -8.20          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5190                                                | 98.56                         | 99.43                   | /                 | /              | 34.45                        | 11.21                 | 46.53                    | 100                       | 20                         | Peak    |
| 5190                                                | 89.43                         | 90.30                   | /                 | /              | 34.45                        | 11.21                 | 46.53                    | 100                       | 20                         | Average |
| 5350                                                | 50.57                         | 51.18                   | 74.00             | -23.43         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.83                         | 46.44                   | 54.00             | -8.17          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



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**Test Report No.: W7L-P24090003RF03**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 51.37                         | 52.46                   | 74.00             | -22.63         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.57                         | 46.66                   | 54.00             | -8.43          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5230                                                | 100.14                        | 101.13                  | /                 | /              | 34.29                        | 11.26                 | 46.54                    | 100                       | 320                        | Peak    |
| 5230                                                | 92.29                         | 93.28                   | /                 | /              | 34.29                        | 11.26                 | 46.54                    | 100                       | 320                        | Average |
| 5350                                                | 51.84                         | 52.69                   | 74.00             | -22.16         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.64                         | 46.49                   | 54.00             | -8.36          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.03                         | 52.96                   | 74.00             | -21.97         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.59                         | 46.52                   | 54.00             | -8.41          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5230                                                | 97.94                         | 98.74                   | /                 | /              | 34.48                        | 11.26                 | 46.54                    | 100                       | 20                         | Peak    |
| 5230                                                | 89.99                         | 90.79                   | /                 | /              | 34.48                        | 11.26                 | 46.54                    | 100                       | 20                         | Average |
| 5350                                                | 51.46                         | 52.07                   | 74.00             | -22.54         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.78                         | 46.39                   | 54.00             | -8.22          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



## 802.11ax (80MHz)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |         |
|-----------------------------------------------------|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|---------|
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 51.62                   | 52.71             | 74.00          | -22.38      | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Peak    |
| 5150                                                | 45.87                   | 46.96             | 54.00          | -8.13       | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Average |
| 5210                                                | 95.75                   | 96.77             | /              | /           | 34.28                  | 11.24           | 46.54              | 100                 | 320                  | Peak    |
| 5210                                                | 87.44                   | 88.46             | /              | /           | 34.28                  | 11.24           | 46.54              | 100                 | 320                  | Average |
| 5350                                                | 51.34                   | 52.19             | 74.00          | -22.66      | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Peak    |
| 5350                                                | 45.42                   | 46.27             | 54.00          | -8.58       | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 51.68                   | 52.61             | 74.00          | -22.32      | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Peak    |
| 5150                                                | 45.86                   | 46.79             | 54.00          | -8.14       | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Average |
| 5210                                                | 93.30                   | 94.13             | /              | /           | 34.47                  | 11.24           | 46.54              | 100                 | 20                   | Peak    |
| 5210                                                | 86.07                   | 86.90             | /              | /           | 34.47                  | 11.24           | 46.54              | 100                 | 20                   | Average |
| 5350                                                | 51.33                   | 51.94             | 74.00          | -22.67      | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | Peak    |
| 5350                                                | 45.68                   | 46.29             | 54.00          | -8.32       | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | Average |

## REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5210MHz: 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. (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                                                | 52.25                         | 53.34                   | 74.00             | -21.75         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.78                         | 46.87                   | 54.00             | -8.22          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5210                                                | 93.21                         | 94.23                   | /                 | /              | 34.28                        | 11.24                 | 46.54                    | 100                       | 320                        | Peak    |
| 5210                                                | 87.21                         | 88.23                   | /                 | /              | 34.28                        | 11.24                 | 46.54                    | 100                       | 320                        | Average |
| 5350                                                | 52.44                         | 53.29                   | 74.00             | -21.56         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.43                         | 46.28                   | 54.00             | -8.57          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.72                         | 53.65                   | 74.00             | -21.28         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.84                         | 46.77                   | 54.00             | -8.16          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5210                                                | 92.14                         | 92.97                   | /                 | /              | 34.47                        | 11.24                 | 46.54                    | 100                       | 20                         | Peak    |
| 5210                                                | 85.33                         | 86.16                   | /                 | /              | 34.47                        | 11.24                 | 46.54                    | 100                       | 20                         | Average |
| 5350                                                | 51.72                         | 52.33                   | 74.00             | -22.28         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.47                         | 46.08                   | 54.00             | -8.53          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



Test Report No.: W7L-P24090003RF03

5G WIFI-RU

802.11ax (20MHz) (RU242):

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |         |
|-----------------------------------------------------|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|---------|
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 52.56                   | 53.65             | 74.00          | -21.44      | 34.26                  | 11.17           | 46.52              | 115                 | 325                  | Peak    |
| 5150                                                | 45.76                   | 46.85             | 54.00          | -8.24       | 34.26                  | 11.17           | 46.52              | 115                 | 325                  | Average |
| 5180                                                | 104.70                  | 105.76            | /              | /           | 34.27                  | 11.20           | 46.53              | 115                 | 325                  | Peak    |
| 5180                                                | 94.24                   | 95.30             | /              | /           | 34.27                  | 11.20           | 46.53              | 115                 | 325                  | Average |
| 5350                                                | 51.60                   | 52.45             | 74.00          | -22.40      | 34.34                  | 11.39           | 46.58              | 115                 | 325                  | Peak    |
| 5350                                                | 45.13                   | 45.98             | 54.00          | -8.87       | 34.34                  | 11.39           | 46.58              | 115                 | 325                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 53.25                   | 54.18             | 74.00          | -20.75      | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Peak    |
| 5150                                                | 45.38                   | 46.31             | 54.00          | -8.62       | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Average |
| 5180                                                | 101.77                  | 102.66            | /              | /           | 34.44                  | 11.20           | 46.53              | 100                 | 25                   | Peak    |
| 5180                                                | 92.01                   | 92.90             | /              | /           | 34.44                  | 11.20           | 46.53              | 100                 | 25                   | Average |
| 5350                                                | 52.18                   | 52.79             | 74.00          | -21.82      | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Peak    |
| 5350                                                | 45.42                   | 46.03             | 54.00          | -8.58       | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Average |

**REMARKS:**

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



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**Test Report No.: W7L-P24090003RF03**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 53.03                         | 54.12                   | 74.00             | -20.97         | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Peak    |
| 5150                                                | 44.96                         | 46.05                   | 54.00             | -9.04          | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Average |
| 5200                                                | 103.81                        | 104.85                  | /                 | /              | 34.28                        | 11.22                 | 46.54                    | 115                       | 325                        | Peak    |
| 5200                                                | 93.62                         | 94.66                   | /                 | /              | 34.28                        | 11.22                 | 46.54                    | 115                       | 325                        | Average |
| 5350                                                | 52.80                         | 53.65                   | 74.00             | -21.20         | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Peak    |
| 5350                                                | 44.93                         | 45.78                   | 54.00             | -9.07          | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.72                         | 53.65                   | 74.00             | -21.28         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.49                         | 46.42                   | 54.00             | -8.51          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5200                                                | 101.02                        | 101.88                  | /                 | /              | 34.46                        | 11.22                 | 46.54                    | 100                       | 25                         | Peak    |
| 5200                                                | 91.71                         | 92.57                   | /                 | /              | 34.46                        | 11.22                 | 46.54                    | 100                       | 25                         | Average |
| 5350                                                | 51.88                         | 52.49                   | 74.00             | -22.12         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.08                         | 45.69                   | 54.00             | -8.92          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



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**Test Report No.: W7L-P24090003RF03**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 52.15                         | 53.24                   | 74.00             | -21.85         | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Peak    |
| 5150                                                | 45.05                         | 46.14                   | 54.00             | -8.95          | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Average |
| 5240                                                | 104.35                        | 105.33                  | /                 | /              | 34.30                        | 11.27                 | 46.55                    | 115                       | 325                        | Peak    |
| 5240                                                | 93.26                         | 94.24                   | /                 | /              | 34.30                        | 11.27                 | 46.55                    | 115                       | 325                        | Average |
| 5350                                                | 52.23                         | 53.08                   | 74.00             | -21.77         | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Peak    |
| 5350                                                | 45.13                         | 45.98                   | 54.00             | -8.87          | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 53.41                         | 54.34                   | 74.00             | -20.59         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.23                         | 46.16                   | 54.00             | -8.77          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5240                                                | 101.65                        | 102.44                  | /                 | /              | 34.49                        | 11.27                 | 46.55                    | 100                       | 25                         | Peak    |
| 5240                                                | 92.00                         | 92.79                   | /                 | /              | 34.49                        | 11.27                 | 46.55                    | 100                       | 25                         | Average |
| 5350                                                | 54.57                         | 55.18                   | 74.00             | -19.43         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.33                         | 45.94                   | 54.00             | -8.67          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



**802.11ax (40MHz) (RU484):**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 53.54                         | 54.63                   | 74.00             | -20.46         | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Peak    |
| 5150                                                | 45.15                         | 46.24                   | 54.00             | -8.85          | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Average |
| 5190                                                | 100.45                        | 101.49                  | /                 | /              | 34.28                        | 11.21                 | 46.53                    | 115                       | 325                        | Peak    |
| 5190                                                | 91.09                         | 92.13                   | /                 | /              | 34.28                        | 11.21                 | 46.53                    | 115                       | 325                        | Average |
| 5350                                                | 52.16                         | 53.01                   | 74.00             | -21.84         | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Peak    |
| 5350                                                | 44.96                         | 45.81                   | 54.00             | -9.04          | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.91                         | 53.84                   | 74.00             | -21.09         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.08                         | 46.01                   | 54.00             | -8.92          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5190                                                | 99.00                         | 99.87                   | /                 | /              | 34.45                        | 11.21                 | 46.53                    | 100                       | 25                         | Peak    |
| 5190                                                | 88.98                         | 89.85                   | /                 | /              | 34.45                        | 11.21                 | 46.53                    | 100                       | 25                         | Average |
| 5350                                                | 53.44                         | 54.05                   | 74.00             | -20.56         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.14                         | 45.75                   | 54.00             | -8.86          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



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**Test Report No.: W7L-P24090003RF03**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 52.17                         | 53.26                   | 74.00             | -21.83         | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Peak    |
| 5150                                                | 45.50                         | 46.59                   | 54.00             | -8.50          | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Average |
| 5230                                                | 100.45                        | 101.44                  | /                 | /              | 34.29                        | 11.26                 | 46.54                    | 115                       | 325                        | Peak    |
| 5230                                                | 91.57                         | 92.56                   | /                 | /              | 34.29                        | 11.26                 | 46.54                    | 115                       | 325                        | Average |
| 5350                                                | 51.66                         | 52.51                   | 74.00             | -22.34         | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Peak    |
| 5350                                                | 45.18                         | 46.03                   | 54.00             | -8.82          | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 51.89                         | 52.82                   | 74.00             | -22.11         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.16                         | 46.09                   | 54.00             | -8.84          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5230                                                | 98.59                         | 99.39                   | /                 | /              | 34.48                        | 11.26                 | 46.54                    | 100                       | 25                         | Peak    |
| 5230                                                | 88.73                         | 89.53                   | /                 | /              | 34.48                        | 11.26                 | 46.54                    | 100                       | 25                         | Average |
| 5350                                                | 52.83                         | 53.44                   | 74.00             | -21.17         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.12                         | 45.73                   | 54.00             | -8.88          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



Test Report No.: W7L-P24090003RF03

802.11ax (80MHz) (RU996):

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |         |
|-----------------------------------------------------|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|---------|
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 52.53                   | 53.62             | 74.00          | -21.47      | 34.26                  | 11.17           | 46.52              | 115                 | 325                  | Peak    |
| 5150                                                | 45.42                   | 46.51             | 54.00          | -8.58       | 34.26                  | 11.17           | 46.52              | 115                 | 325                  | Average |
| 5210                                                | 94.26                   | 95.28             | /              | /           | 34.28                  | 11.24           | 46.54              | 115                 | 325                  | Peak    |
| 5210                                                | 87.58                   | 88.60             | /              | /           | 34.28                  | 11.24           | 46.54              | 115                 | 325                  | Average |
| 5350                                                | 51.58                   | 52.43             | 74.00          | -22.42      | 34.34                  | 11.39           | 46.58              | 115                 | 325                  | Peak    |
| 5350                                                | 45.33                   | 46.18             | 54.00          | -8.67       | 34.34                  | 11.39           | 46.58              | 115                 | 325                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 52.60                   | 53.53             | 74.00          | -21.40      | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Peak    |
| 5150                                                | 45.25                   | 46.18             | 54.00          | -8.75       | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Average |
| 5210                                                | 93.79                   | 94.62             | /              | /           | 34.47                  | 11.24           | 46.54              | 100                 | 25                   | Peak    |
| 5210                                                | 85.59                   | 86.42             | /              | /           | 34.47                  | 11.24           | 46.54              | 100                 | 25                   | Average |
| 5350                                                | 51.66                   | 52.27             | 74.00          | -22.34      | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Peak    |
| 5350                                                | 45.26                   | 45.87             | 54.00          | -8.74       | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Average |

**REMARKS:**

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



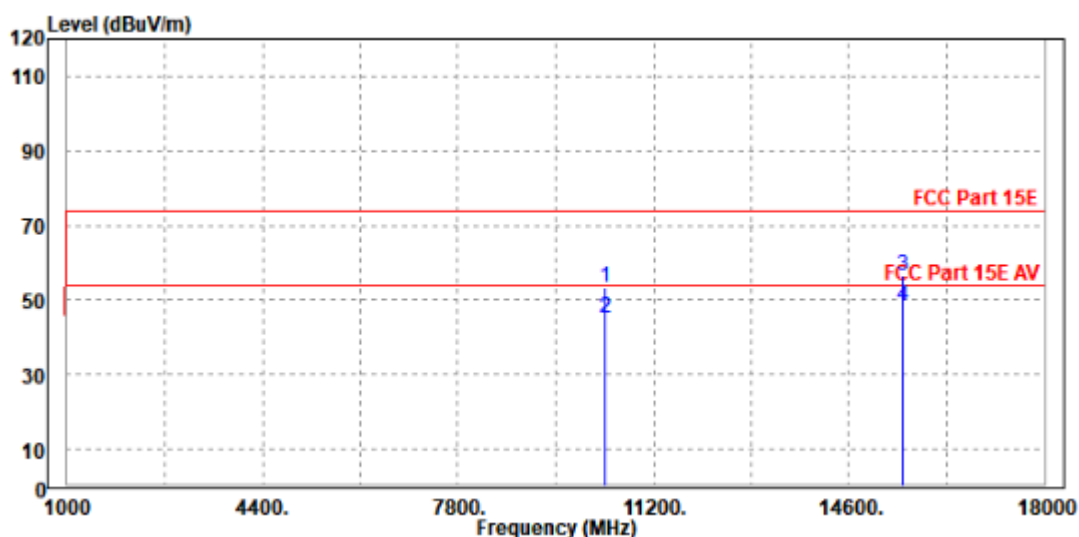
802.11n (20MHz)

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

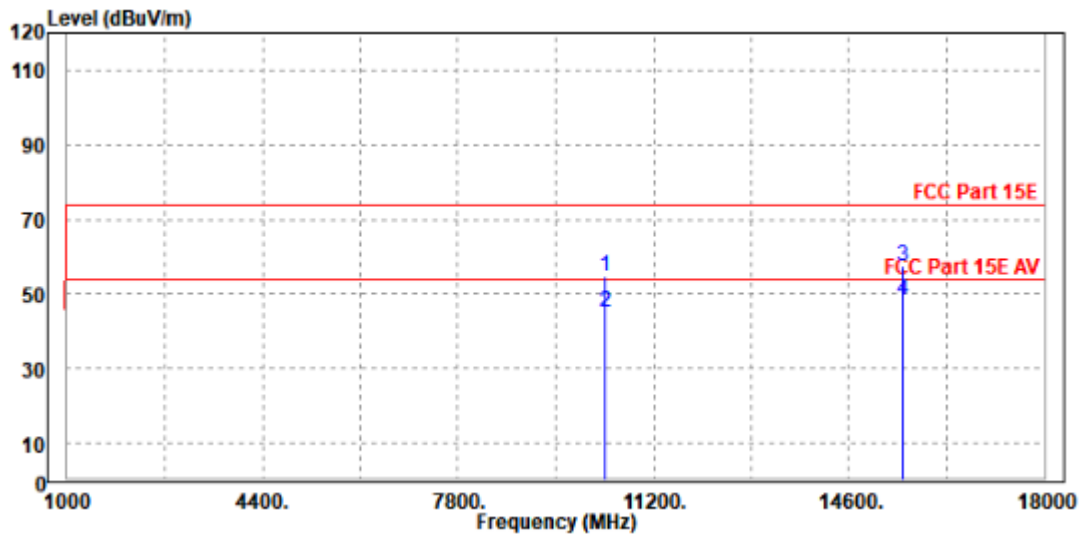
|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark  | Pol/Phase  |
|---|-------------|--------|------------|------------|------------|--------|---------|------------|
|   | MHz         | dBuV/m | dBuV       | dBuV/m     | dB         | dB/m   |         |            |
| 1 | 10360.000   | 53.29  | 45.14      | 74.00      | -20.71     | 8.15   | Peak    | Horizontal |
| 2 | 10360.000   | 45.39  | 37.24      | 54.00      | -8.61      | 8.15   | Average | Horizontal |
| 3 | PK15535.000 | 56.44  | 40.49      | 74.00      | -17.56     | 15.95  | Peak    | Horizontal |
| 4 | PP15535.000 | 48.59  | 32.64      | 54.00      | -5.41      | 15.95  | 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 | 10367.000   | 54.78  | 46.43         | 74.00         | -19.22        | 8.35   | Peak    | Vertical  |
| 2 | 10367.000   | 45.27  | 36.92         | 54.00         | -8.73         | 8.35   | Average | Vertical  |
| 3 | PK15540.000 | 57.57  | 41.47         | 74.00         | -16.43        | 16.10  | Peak    | Vertical  |
| 4 | PP15540.000 | 48.52  | 32.42         | 54.00         | -5.48         | 16.10  | Average | Vertical  |



**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



Test Report No.: W7L-P24090003RF03

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. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 54.78                   | 55.87             | 74.00          | -19.22      | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Peak    |
| 5150                                                | 45.68                   | 46.77             | 54.00          | -8.32       | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Average |
| 5260                                                | 105.95                  | 106.91            | /              | /           | 34.30                  | 11.29           | 46.55              | 100                 | 320                  | Peak    |
| 5260                                                | 97.82                   | 98.78             | /              | /           | 34.30                  | 11.29           | 46.55              | 100                 | 320                  | Average |
| 5350                                                | 52.98                   | 53.83             | 74.00          | -21.02      | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Peak    |
| 5350                                                | 45.59                   | 46.44             | 54.00          | -8.41       | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 52.89                   | 53.82             | 74.00          | -21.11      | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Peak    |
| 5150                                                | 45.93                   | 46.86             | 54.00          | -8.07       | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Average |
| 5260                                                | 103.44                  | 104.19            | /              | /           | 34.51                  | 11.29           | 46.55              | 100                 | 20                   | Peak    |
| 5260                                                | 95.89                   | 96.64             | /              | /           | 34.51                  | 11.29           | 46.55              | 100                 | 20                   | Average |
| 5350                                                | 52.08                   | 52.69             | 74.00          | -21.92      | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | Peak    |
| 5350                                                | 45.76                   | 46.37             | 54.00          | -8.24       | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | Average |

#### REMARKS:

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



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Test Report No.: W7L-P24090003RF03

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 53.37                         | 54.46                   | 74.00             | -20.63         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.49                         | 46.58                   | 54.00             | -8.51          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5300                                                | 104.76                        | 105.66                  | /                 | /              | 34.32                        | 11.34                 | 46.56                    | 100                       | 320                        | Peak    |
| 5300                                                | 96.76                         | 97.66                   | /                 | /              | 34.32                        | 11.34                 | 46.56                    | 100                       | 320                        | Average |
| 5350                                                | 52.42                         | 53.27                   | 74.00             | -21.58         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.69                         | 46.54                   | 54.00             | -8.31          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 54.13                         | 55.06                   | 74.00             | -19.87         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.85                         | 46.78                   | 54.00             | -8.15          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5300                                                | 103.46                        | 104.14                  | /                 | /              | 34.54                        | 11.34                 | 46.56                    | 100                       | 20                         | Peak    |
| 5300                                                | 95.17                         | 95.85                   | /                 | /              | 34.54                        | 11.34                 | 46.56                    | 100                       | 20                         | Average |
| 5350                                                | 54.69                         | 55.30                   | 74.00             | -19.31         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.72                         | 46.33                   | 54.00             | -8.28          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | 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. (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                                                | 51.80                         | 52.89                   | 74.00             | -22.20         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.20                         | 46.29                   | 54.00             | -8.80          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5320                                                | 105.10                        | 105.98                  | /                 | /              | 34.33                        | 11.36                 | 46.57                    | 100                       | 320                        | Peak    |
| 5320                                                | 96.13                         | 97.01                   | /                 | /              | 34.33                        | 11.36                 | 46.57                    | 100                       | 320                        | Average |
| 5350                                                | 53.41                         | 54.26                   | 74.00             | -20.59         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.58                         | 46.43                   | 54.00             | -8.42          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 53.37                         | 54.30                   | 74.00             | -20.63         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.35                         | 46.28                   | 54.00             | -8.65          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5320                                                | 104.22                        | 104.87                  | /                 | /              | 34.56                        | 11.36                 | 46.57                    | 100                       | 20                         | Peak    |
| 5320                                                | 94.59                         | 95.24                   | /                 | /              | 34.56                        | 11.36                 | 46.57                    | 100                       | 20                         | Average |
| 5350                                                | 51.62                         | 52.23                   | 74.00             | -22.38         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 46.91                         | 47.52                   | 54.00             | -7.09          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



**802.11n (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. (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                                                | 52.17                         | 53.26                   | 74.00             | -21.83         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.66                         | 46.75                   | 54.00             | -8.34          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5260                                                | 103.21                        | 104.17                  | /                 | /              | 34.30                        | 11.29                 | 46.55                    | 100                       | 320                        | Peak    |
| 5260                                                | 94.98                         | 95.94                   | /                 | /              | 34.30                        | 11.29                 | 46.55                    | 100                       | 320                        | Average |
| 5350                                                | 51.79                         | 52.64                   | 74.00             | -22.21         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.35                         | 46.20                   | 54.00             | -8.65          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 53.30                         | 54.23                   | 74.00             | -20.70         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.26                         | 46.19                   | 54.00             | -8.74          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5260                                                | 101.57                        | 102.32                  | /                 | /              | 34.51                        | 11.29                 | 46.55                    | 100                       | 20                         | Peak    |
| 5260                                                | 93.49                         | 94.24                   | /                 | /              | 34.51                        | 11.29                 | 46.55                    | 100                       | 20                         | Average |
| 5350                                                | 52.81                         | 53.42                   | 74.00             | -21.19         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.64                         | 46.25                   | 54.00             | -8.36          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



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Test Report No.: W7L-P24090003RF03

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 52.17                         | 53.26                   | 74.00             | -21.83         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.80                         | 46.89                   | 54.00             | -8.20          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5300                                                | 102.71                        | 103.61                  | /                 | /              | 34.32                        | 11.34                 | 46.56                    | 100                       | 320                        | Peak    |
| 5300                                                | 93.62                         | 94.52                   | /                 | /              | 34.32                        | 11.34                 | 46.56                    | 100                       | 320                        | Average |
| 5350                                                | 52.99                         | 53.84                   | 74.00             | -21.01         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.82                         | 46.67                   | 54.00             | -8.18          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.45                         | 53.38                   | 74.00             | -21.55         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.42                         | 46.35                   | 54.00             | -8.58          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5300                                                | 101.68                        | 102.36                  | /                 | /              | 34.54                        | 11.34                 | 46.56                    | 100                       | 20                         | Peak    |
| 5300                                                | 92.89                         | 93.57                   | /                 | /              | 34.54                        | 11.34                 | 46.56                    | 100                       | 20                         | Average |
| 5350                                                | 52.06                         | 52.67                   | 74.00             | -21.94         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.98                         | 46.59                   | 54.00             | -8.02          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | 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. (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                                                | 50.86                         | 51.95                   | 74.00             | -23.14         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.66                         | 46.75                   | 54.00             | -8.34          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5320                                                | 100.13                        | 101.01                  | /                 | /              | 34.33                        | 11.36                 | 46.57                    | 100                       | 320                        | Peak    |
| 5320                                                | 94.18                         | 95.06                   | /                 | /              | 34.33                        | 11.36                 | 46.57                    | 100                       | 320                        | Average |
| 5350                                                | 52.36                         | 53.21                   | 74.00             | -21.64         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.81                         | 46.66                   | 54.00             | -8.19          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 50.77                         | 51.70                   | 74.00             | -23.23         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.44                         | 46.37                   | 54.00             | -8.56          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5320                                                | 100.32                        | 100.97                  | /                 | /              | 34.56                        | 11.36                 | 46.57                    | 100                       | 25                         | Peak    |
| 5320                                                | 92.71                         | 93.36                   | /                 | /              | 34.56                        | 11.36                 | 46.57                    | 100                       | 25                         | Average |
| 5350                                                | 51.59                         | 52.20                   | 74.00             | -22.41         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.53                         | 46.14                   | 54.00             | -8.47          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



Test Report No.: W7L-P24090003RF03

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. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 51.60                   | 52.69             | 74.00          | -22.40      | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Peak    |
| 5150                                                | 45.36                   | 46.45             | 54.00          | -8.64       | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Average |
| 5270                                                | 98.23                   | 99.18             | /              | /           | 34.31                  | 11.30           | 46.56              | 100                 | 320                  | Peak    |
| 5270                                                | 91.12                   | 92.07             | /              | /           | 34.31                  | 11.30           | 46.56              | 100                 | 320                  | Average |
| 5350                                                | 49.97                   | 50.82             | 74.00          | -24.03      | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Peak    |
| 5350                                                | 45.32                   | 46.17             | 54.00          | -8.68       | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 53.00                   | 53.93             | 74.00          | -21.00      | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Peak    |
| 5150                                                | 45.40                   | 46.33             | 54.00          | -8.60       | 34.42                  | 11.17           | 46.52              | 100                 | 20                   | Average |
| 5270                                                | 97.75                   | 98.49             | /              | /           | 34.52                  | 11.30           | 46.56              | 100                 | 20                   | Peak    |
| 5270                                                | 89.96                   | 90.70             | /              | /           | 34.52                  | 11.30           | 46.56              | 100                 | 20                   | Average |
| 5350                                                | 52.38                   | 52.99             | 74.00          | -21.62      | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | Peak    |
| 5350                                                | 45.55                   | 46.16             | 54.00          | -8.45       | 34.58                  | 11.39           | 46.58              | 100                 | 20                   | 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. (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                                                | 50.47                         | 51.56                   | 74.00             | -23.53         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.59                         | 46.68                   | 54.00             | -8.41          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5310                                                | 97.47                         | 98.37                   | /                 | /              | 34.32                        | 11.35                 | 46.57                    | 100                       | 320                        | Peak    |
| 5310                                                | 91.16                         | 92.06                   | /                 | /              | 34.32                        | 11.35                 | 46.57                    | 100                       | 320                        | Average |
| 5350                                                | 51.70                         | 52.55                   | 74.00             | -22.30         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.61                         | 46.46                   | 54.00             | -8.39          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 50.63                         | 51.56                   | 74.00             | -23.37         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.68                         | 46.61                   | 54.00             | -8.32          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5310                                                | 96.93                         | 97.60                   | /                 | /              | 34.55                        | 11.35                 | 46.57                    | 100                       | 25                         | Peak    |
| 5310                                                | 90.66                         | 91.33                   | /                 | /              | 34.55                        | 11.35                 | 46.57                    | 100                       | 25                         | Average |
| 5350                                                | 51.80                         | 52.41                   | 74.00             | -22.20         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.40                         | 46.01                   | 54.00             | -8.60          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



Test Report No.: W7L-P24090003RF03

802.11ax (20MHz)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |         |
|-----------------------------------------------------|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|---------|
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 51.33                   | 52.42             | 74.00          | -22.67      | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Peak    |
| 5150                                                | 45.18                   | 46.27             | 54.00          | -8.82       | 34.26                  | 11.17           | 46.52              | 100                 | 320                  | Average |
| 5260                                                | 101.91                  | 102.87            | /              | /           | 34.30                  | 11.29           | 46.55              | 100                 | 320                  | Peak    |
| 5260                                                | 93.03                   | 93.99             | /              | /           | 34.30                  | 11.29           | 46.55              | 100                 | 320                  | Average |
| 5350                                                | 53.03                   | 53.88             | 74.00          | -20.97      | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Peak    |
| 5350                                                | 45.04                   | 45.89             | 54.00          | -8.96       | 34.34                  | 11.39           | 46.58              | 100                 | 320                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 53.61                   | 54.54             | 74.00          | -20.39      | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Peak    |
| 5150                                                | 45.50                   | 46.43             | 54.00          | -8.50       | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Average |
| 5260                                                | 102.26                  | 103.01            | /              | /           | 34.51                  | 11.29           | 46.55              | 100                 | 25                   | Peak    |
| 5260                                                | 92.76                   | 93.51             | /              | /           | 34.51                  | 11.29           | 46.55              | 100                 | 25                   | Average |
| 5350                                                | 52.22                   | 52.83             | 74.00          | -21.78      | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Peak    |
| 5350                                                | 45.50                   | 46.11             | 54.00          | -8.50       | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | 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. (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                                                | 50.05                         | 51.14                   | 74.00             | -23.95         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.11                         | 46.20                   | 54.00             | -8.89          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5300                                                | 100.99                        | 101.89                  | /                 | /              | 34.32                        | 11.34                 | 46.56                    | 100                       | 320                        | Peak    |
| 5300                                                | 91.35                         | 92.25                   | /                 | /              | 34.32                        | 11.34                 | 46.56                    | 100                       | 320                        | Average |
| 5350                                                | 51.75                         | 52.60                   | 74.00             | -22.25         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.00                         | 45.85                   | 54.00             | -9.00          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 50.78                         | 51.71                   | 74.00             | -23.22         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.63                         | 46.56                   | 54.00             | -8.37          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5300                                                | 102.22                        | 102.90                  | /                 | /              | 34.54                        | 11.34                 | 46.56                    | 100                       | 25                         | Peak    |
| 5300                                                | 92.37                         | 93.05                   | /                 | /              | 34.54                        | 11.34                 | 46.56                    | 100                       | 25                         | Average |
| 5350                                                | 51.48                         | 52.09                   | 74.00             | -22.52         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.36                         | 45.97                   | 54.00             | -8.64          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | 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. (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                                                | 51.25                         | 52.34                   | 74.00             | -22.75         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.24                         | 46.33                   | 54.00             | -8.76          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5320                                                | 100.41                        | 101.29                  | /                 | /              | 34.33                        | 11.36                 | 46.57                    | 100                       | 320                        | Peak    |
| 5320                                                | 92.56                         | 93.44                   | /                 | /              | 34.33                        | 11.36                 | 46.57                    | 100                       | 320                        | Average |
| 5350                                                | 52.54                         | 53.39                   | 74.00             | -21.46         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.22                         | 46.07                   | 54.00             | -8.78          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 50.76                         | 51.69                   | 74.00             | -23.24         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.39                         | 46.32                   | 54.00             | -8.61          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5320                                                | 98.48                         | 99.13                   | /                 | /              | 34.56                        | 11.36                 | 46.57                    | 100                       | 20                         | Peak    |
| 5320                                                | 90.34                         | 90.99                   | /                 | /              | 34.56                        | 11.36                 | 46.57                    | 100                       | 20                         | Average |
| 5350                                                | 51.25                         | 51.86                   | 74.00             | -22.75         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.42                         | 46.03                   | 54.00             | -8.58          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



## 802.11ax (40MHz)

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

## ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M

| FREQ. (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        | 51.45                         | 52.54                   | 74.00             | -22.55         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150        | 45.60                         | 46.69                   | 54.00             | -8.40          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5270        | 99.32                         | 100.27                  | /                 | /              | 34.31                        | 11.30                 | 46.56                    | 100                       | 320                        | Peak    |
| 5270        | 89.31                         | 90.26                   | /                 | /              | 34.31                        | 11.30                 | 46.56                    | 100                       | 320                        | Average |
| 5350        | 52.38                         | 53.23                   | 74.00             | -21.62         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350        | 45.39                         | 46.24                   | 54.00             | -8.61          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |

## ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M

| FREQ. (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        | 51.33                         | 52.26                   | 74.00             | -22.67         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150        | 45.51                         | 46.44                   | 54.00             | -8.49          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5270        | 98.62                         | 99.36                   | /                 | /              | 34.52                        | 11.30                 | 46.56                    | 100                       | 25                         | Peak    |
| 5270        | 89.86                         | 90.60                   | /                 | /              | 34.52                        | 11.30                 | 46.56                    | 100                       | 25                         | Average |
| 5350        | 52.72                         | 53.33                   | 74.00             | -21.28         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350        | 45.42                         | 46.03                   | 54.00             | -8.58          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

## REMARKS:

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



**BUREAU  
VERITAS**

**Test Report No.: W7L-P24090003RF03**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 51.20                         | 52.29                   | 74.00             | -22.80         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.51                         | 46.60                   | 54.00             | -8.49          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5310                                                | 98.18                         | 99.08                   | /                 | /              | 34.32                        | 11.35                 | 46.57                    | 100                       | 320                        | Peak    |
| 5310                                                | 89.96                         | 90.86                   | /                 | /              | 34.32                        | 11.35                 | 46.57                    | 100                       | 320                        | Average |
| 5350                                                | 51.13                         | 51.98                   | 74.00             | -22.87         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.76                         | 46.61                   | 54.00             | -8.24          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 51.13                         | 52.06                   | 74.00             | -22.87         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.61                         | 46.54                   | 54.00             | -8.39          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5310                                                | 99.20                         | 99.87                   | /                 | /              | 34.55                        | 11.35                 | 46.57                    | 100                       | 25                         | Peak    |
| 5310                                                | 89.12                         | 89.79                   | /                 | /              | 34.55                        | 11.35                 | 46.57                    | 100                       | 25                         | Average |
| 5350                                                | 53.13                         | 53.74                   | 74.00             | -20.87         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.85                         | 46.46                   | 54.00             | -8.15          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



**802.11ax (80MHz)**

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|---------|
| FREQ. (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                                                | 51.13                         | 52.22                   | 74.00             | -22.87         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150                                                | 45.49                         | 46.58                   | 54.00             | -8.51          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5290                                                | 95.77                         | 96.69                   | /                 | /              | 34.32                        | 11.32                 | 46.56                    | 100                       | 320                        | Peak    |
| 5290                                                | 87.40                         | 88.32                   | /                 | /              | 34.32                        | 11.32                 | 46.56                    | 100                       | 320                        | Average |
| 5350                                                | 50.98                         | 51.83                   | 74.00             | -23.02         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350                                                | 45.82                         | 46.67                   | 54.00             | -8.18          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 51.74                         | 52.67                   | 74.00             | -22.26         | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Peak    |
| 5150                                                | 45.61                         | 46.54                   | 54.00             | -8.39          | 34.42                        | 11.17                 | 46.52                    | 100                       | 20                         | Average |
| 5290                                                | 92.98                         | 93.69                   | /                 | /              | 34.53                        | 11.32                 | 46.56                    | 100                       | 20                         | Peak    |
| 5290                                                | 85.44                         | 86.15                   | /                 | /              | 34.53                        | 11.32                 | 46.56                    | 100                       | 20                         | Average |
| 5350                                                | 51.49                         | 52.10                   | 74.00             | -22.51         | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Peak    |
| 5350                                                | 45.96                         | 46.57                   | 54.00             | -8.04          | 34.58                        | 11.39                 | 46.58                    | 100                       | 20                         | Average |

**REMARKS:**

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



## 802.11ac (80MHz)

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

## ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M

| FREQ. (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        | 50.76                         | 51.85                   | 74.00             | -23.24         | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Peak    |
| 5150        | 45.33                         | 46.42                   | 54.00             | -8.67          | 34.26                        | 11.17                 | 46.52                    | 100                       | 320                        | Average |
| 5290        | 91.36                         | 92.28                   | /                 | /              | 34.32                        | 11.32                 | 46.56                    | 100                       | 320                        | Peak    |
| 5290        | 84.90                         | 85.82                   | /                 | /              | 34.32                        | 11.32                 | 46.56                    | 100                       | 320                        | Average |
| 5350        | 51.00                         | 51.85                   | 74.00             | -23.00         | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Peak    |
| 5350        | 45.44                         | 46.29                   | 54.00             | -8.56          | 34.34                        | 11.39                 | 46.58                    | 100                       | 320                        | Average |

## ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M

| FREQ. (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        | 52.47                         | 53.40                   | 74.00             | -21.53         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150        | 45.40                         | 46.33                   | 54.00             | -8.60          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5290        | 90.60                         | 91.31                   | /                 | /              | 34.53                        | 11.32                 | 46.56                    | 100                       | 25                         | Peak    |
| 5290        | 83.05                         | 83.76                   | /                 | /              | 34.53                        | 11.32                 | 46.56                    | 100                       | 25                         | Average |
| 5350        | 52.35                         | 52.96                   | 74.00             | -21.65         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350        | 45.68                         | 46.29                   | 54.00             | -8.32          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

## REMARKS:

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



## 5G WIFI-RU

## 802.11ax (20MHz) (RU242):

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |         |
|-----------------------------------------------------|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|---------|
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 52.34                   | 53.43             | 74.00          | -21.66      | 34.26                  | 11.17           | 46.52              | 115                 | 325                  | Peak    |
| 5150                                                | 45.48                   | 46.57             | 54.00          | -8.52       | 34.26                  | 11.17           | 46.52              | 115                 | 325                  | Average |
| 5260                                                | 104.49                  | 105.45            | /              | /           | 34.30                  | 11.29           | 46.55              | 115                 | 325                  | Peak    |
| 5260                                                | 93.89                   | 94.85             | /              | /           | 34.30                  | 11.29           | 46.55              | 115                 | 325                  | Average |
| 5350                                                | 51.90                   | 52.75             | 74.00          | -22.10      | 34.34                  | 11.39           | 46.58              | 115                 | 325                  | Peak    |
| 5350                                                | 45.15                   | 46.00             | 54.00          | -8.85       | 34.34                  | 11.39           | 46.58              | 115                 | 325                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 53.23                   | 54.16             | 74.00          | -20.77      | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Peak    |
| 5150                                                | 45.22                   | 46.15             | 54.00          | -8.78       | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Average |
| 5260                                                | 102.05                  | 102.80            | /              | /           | 34.51                  | 11.29           | 46.55              | 100                 | 25                   | Peak    |
| 5260                                                | 91.97                   | 92.72             | /              | /           | 34.51                  | 11.29           | 46.55              | 100                 | 25                   | Average |
| 5350                                                | 52.56                   | 53.17             | 74.00          | -21.44      | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Peak    |
| 5350                                                | 45.26                   | 45.87             | 54.00          | -8.74       | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Average |

## REMARKS:

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



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Test Report No.: W7L-P24090003RF03

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 53.53                         | 54.62                   | 74.00             | -20.47         | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Peak    |
| 5150                                                | 45.60                         | 46.69                   | 54.00             | -8.40          | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Average |
| 5300                                                | 102.26                        | 103.16                  | /                 | /              | 34.32                        | 11.34                 | 46.56                    | 115                       | 325                        | Peak    |
| 5300                                                | 92.97                         | 93.87                   | /                 | /              | 34.32                        | 11.34                 | 46.56                    | 115                       | 325                        | Average |
| 5350                                                | 53.04                         | 53.89                   | 74.00             | -20.96         | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Peak    |
| 5350                                                | 44.84                         | 45.69                   | 54.00             | -9.16          | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.36                         | 53.29                   | 74.00             | -21.64         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.27                         | 46.20                   | 54.00             | -8.73          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5300                                                | 100.76                        | 101.44                  | /                 | /              | 34.54                        | 11.34                 | 46.56                    | 100                       | 25                         | Peak    |
| 5300                                                | 91.09                         | 91.77                   | /                 | /              | 34.54                        | 11.34                 | 46.56                    | 100                       | 25                         | Average |
| 5350                                                | 52.93                         | 53.54                   | 74.00             | -21.07         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.74                         | 46.35                   | 54.00             | -8.26          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



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**Test Report No.: W7L-P24090003RF03**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 51.84                         | 52.93                   | 74.00             | -22.16         | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Peak    |
| 5150                                                | 44.83                         | 45.92                   | 54.00             | -9.17          | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Average |
| 5320                                                | 103.64                        | 104.52                  | /                 | /              | 34.33                        | 11.36                 | 46.57                    | 115                       | 325                        | Peak    |
| 5320                                                | 92.52                         | 93.40                   | /                 | /              | 34.33                        | 11.36                 | 46.57                    | 115                       | 325                        | Average |
| 5350                                                | 52.86                         | 53.71                   | 74.00             | -21.14         | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Peak    |
| 5350                                                | 45.04                         | 45.89                   | 54.00             | -8.96          | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 51.43                         | 52.36                   | 74.00             | -22.57         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.36                         | 46.29                   | 54.00             | -8.64          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5320                                                | 100.62                        | 101.27                  | /                 | /              | 34.56                        | 11.36                 | 46.57                    | 100                       | 25                         | Peak    |
| 5320                                                | 90.20                         | 90.85                   | /                 | /              | 34.56                        | 11.36                 | 46.57                    | 100                       | 25                         | Average |
| 5350                                                | 53.81                         | 54.42                   | 74.00             | -20.19         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.36                         | 45.97                   | 54.00             | -8.64          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



**802.11ax (40MHz) (RU484):**

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 52.03                         | 53.12                   | 74.00             | -21.97         | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Peak    |
| 5150                                                | 45.20                         | 46.29                   | 54.00             | -8.80          | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Average |
| 5270                                                | 99.87                         | 100.82                  | /                 | /              | 34.31                        | 11.30                 | 46.56                    | 115                       | 325                        | Peak    |
| 5270                                                | 89.73                         | 90.68                   | /                 | /              | 34.31                        | 11.30                 | 46.56                    | 115                       | 325                        | Average |
| 5350                                                | 51.82                         | 52.67                   | 74.00             | -22.18         | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Peak    |
| 5350                                                | 45.05                         | 45.90                   | 54.00             | -8.95          | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 52.31                         | 53.24                   | 74.00             | -21.69         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.25                         | 46.18                   | 54.00             | -8.75          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5270                                                | 97.82                         | 98.56                   | /                 | /              | 34.52                        | 11.30                 | 46.56                    | 100                       | 25                         | Peak    |
| 5270                                                | 89.31                         | 90.05                   | /                 | /              | 34.52                        | 11.30                 | 46.56                    | 100                       | 25                         | Average |
| 5350                                                | 53.46                         | 54.07                   | 74.00             | -20.54         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.28                         | 45.89                   | 54.00             | -8.72          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

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



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Test Report No.: W7L-P24090003RF03

|                        |               |                          |              |
|------------------------|---------------|--------------------------|--------------|
| <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. (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                                                | 52.56                         | 53.65                   | 74.00             | -21.44         | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Peak    |
| 5150                                                | 45.28                         | 46.37                   | 54.00             | -8.72          | 34.26                        | 11.17                 | 46.52                    | 115                       | 325                        | Average |
| 5310                                                | 100.30                        | 101.20                  | /                 | /              | 34.32                        | 11.35                 | 46.57                    | 115                       | 325                        | Peak    |
| 5310                                                | 90.59                         | 91.49                   | /                 | /              | 34.32                        | 11.35                 | 46.57                    | 115                       | 325                        | Average |
| 5350                                                | 53.80                         | 54.65                   | 74.00             | -20.20         | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Peak    |
| 5350                                                | 45.98                         | 46.83                   | 54.00             | -8.02          | 34.34                        | 11.39                 | 46.58                    | 115                       | 325                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 51.92                         | 52.85                   | 74.00             | -22.08         | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Peak    |
| 5150                                                | 45.03                         | 45.96                   | 54.00             | -8.97          | 34.42                        | 11.17                 | 46.52                    | 100                       | 25                         | Average |
| 5310                                                | 98.39                         | 99.06                   | /                 | /              | 34.55                        | 11.35                 | 46.57                    | 100                       | 25                         | Peak    |
| 5310                                                | 90.21                         | 90.88                   | /                 | /              | 34.55                        | 11.35                 | 46.57                    | 100                       | 25                         | Average |
| 5350                                                | 52.68                         | 53.29                   | 74.00             | -21.32         | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Peak    |
| 5350                                                | 45.52                         | 46.13                   | 54.00             | -8.48          | 34.58                        | 11.39                 | 46.58                    | 100                       | 25                         | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.



Test Report No.: W7L-P24090003RF03

802.11ax (80MHz) (RU996):

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |         |
|-----------------------------------------------------|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|---------|
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 53.27                   | 54.36             | 74.00          | -20.73      | 34.26                  | 11.17           | 46.52              | 115                 | 325                  | Peak    |
| 5150                                                | 44.76                   | 45.85             | 54.00          | -9.24       | 34.26                  | 11.17           | 46.52              | 115                 | 325                  | Average |
| 5290                                                | 94.45                   | 95.37             | /              | /           | 34.32                  | 11.32           | 46.56              | 115                 | 325                  | Peak    |
| 5290                                                | 87.56                   | 88.48             | /              | /           | 34.32                  | 11.32           | 46.56              | 115                 | 325                  | Average |
| 5350                                                | 52.41                   | 53.26             | 74.00          | -21.59      | 34.34                  | 11.39           | 46.58              | 115                 | 325                  | Peak    |
| 5350                                                | 47.10                   | 47.95             | 54.00          | -6.90       | 34.34                  | 11.39           | 46.58              | 115                 | 325                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5150                                                | 52.55                   | 53.48             | 74.00          | -21.45      | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Peak    |
| 5150                                                | 45.27                   | 46.20             | 54.00          | -8.73       | 34.42                  | 11.17           | 46.52              | 100                 | 25                   | Average |
| 5290                                                | 92.06                   | 92.77             | /              | /           | 34.53                  | 11.32           | 46.56              | 100                 | 25                   | Peak    |
| 5290                                                | 85.80                   | 86.51             | /              | /           | 34.53                  | 11.32           | 46.56              | 100                 | 25                   | Average |
| 5350                                                | 53.08                   | 53.69             | 74.00          | -20.92      | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Peak    |
| 5350                                                | 45.65                   | 46.26             | 54.00          | -8.35       | 34.58                  | 11.39           | 46.58              | 100                 | 25                   | Average |

**REMARKS:**

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



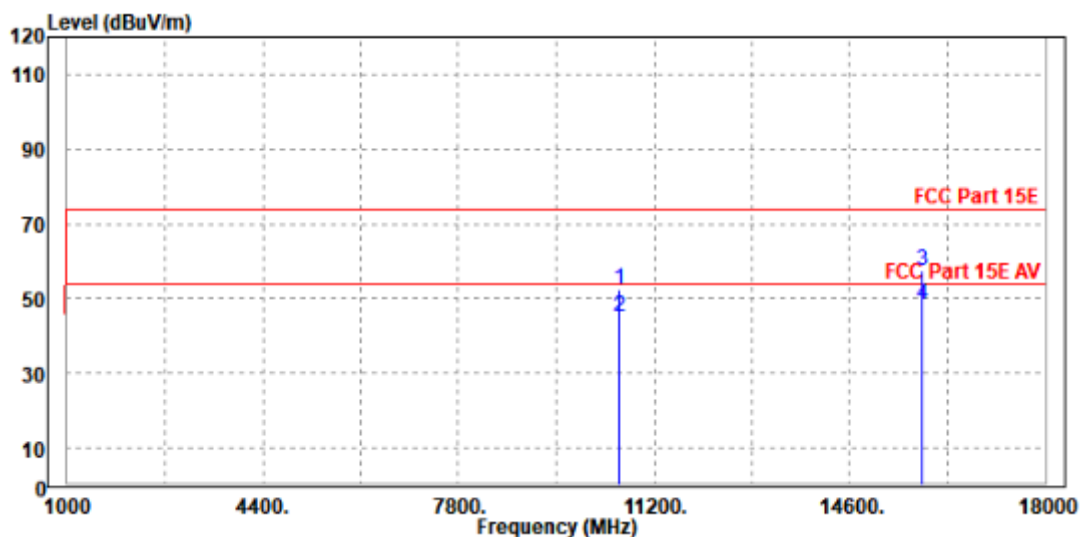
802.11ax (80MHz) (RU996):

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

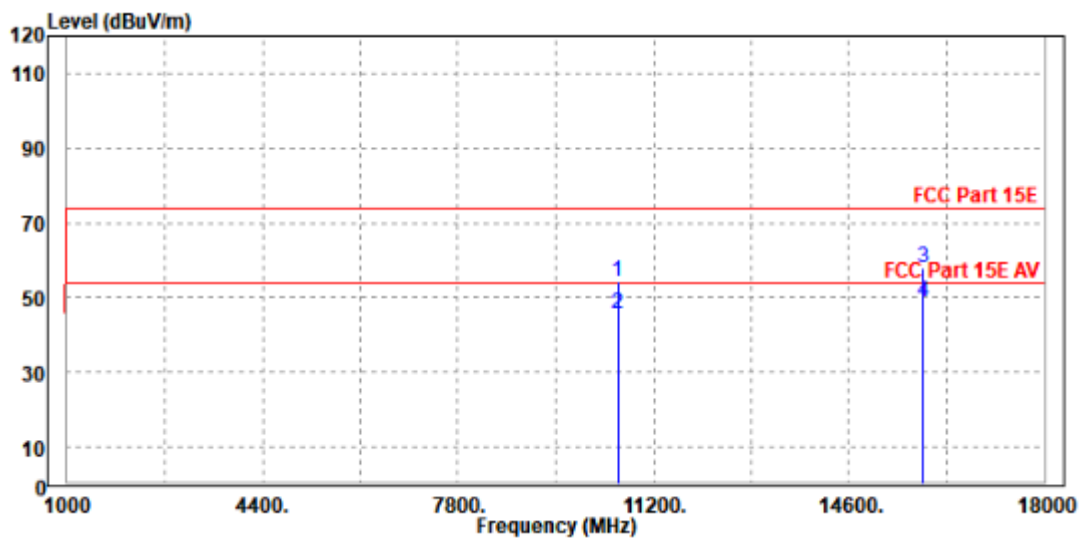
|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark  | Pol/Phase  |
|---|-------------|--------|------------|------------|------------|--------|---------|------------|
|   | MHz         | dBuV/m | dBuV       | dBuV/m     | dB         | dB/m   |         |            |
| 1 | 10588.000   | 52.58  | 44.38      | 74.00      | -21.42     | 8.20   | Peak    | Horizontal |
| 2 | 10588.000   | 45.26  | 37.06      | 54.00      | -8.74      | 8.20   | Average | Horizontal |
| 3 | PK15870.000 | 57.57  | 41.30      | 74.00      | -16.43     | 16.27  | Peak    | Horizontal |
| 4 | PP15870.000 | 48.44  | 32.17      | 54.00      | -5.56      | 16.27  | 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   | 54.27  | 45.87         | 74.00         | -19.73        | 8.40   | Peak    | Vertical  |
| 2 | 10580.000   | 45.67  | 37.27         | 54.00         | -8.33         | 8.40   | Average | Vertical  |
| 3 | PK15875.000 | 57.79  | 41.05         | 74.00         | -16.21        | 16.74  | Peak    | Vertical  |
| 4 | PP15875.000 | 48.93  | 32.19         | 54.00         | -5.07         | 16.74  | 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.



Test Report No.: W7L-P24090003RF03

Band 3

802.11a

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |             |                        |                 |                    |                     |                      |         |
|-----------------------------------------------------|-------------------------|-------------------|----------------|-------------|------------------------|-----------------|--------------------|---------------------|----------------------|---------|
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5460                                                | 50.01                   | 50.72             | 74             | -23.99      | 34.38                  | 11.52           | 46.61              | 100                 | 300                  | Peak    |
| 5460                                                | 45.17                   | 45.88             | 54             | -8.83       | 34.38                  | 11.52           | 46.61              | 100                 | 300                  | Average |
| 5470                                                | 51.74                   | 52.43             | 68.2           | -16.46      | 34.39                  | 11.53           | 46.61              | 100                 | 300                  | Peak    |
| 5500                                                | 99.81                   | 100.47            | /              | /           | 34.4                   | 11.56           | 46.62              | 100                 | 300                  | Peak    |
| 5500                                                | 94.37                   | 95.03             | /              | /           | 34.4                   | 11.56           | 46.62              | 100                 | 300                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5460                                                | 51.54                   | 51.96             | 74             | -22.46      | 34.67                  | 11.52           | 46.61              | 100                 | 110                  | Peak    |
| 5460                                                | 45.26                   | 45.68             | 54             | -8.74       | 34.67                  | 11.52           | 46.61              | 100                 | 110                  | Average |
| 5470                                                | 52.6                    | 53                | 68.2           | -15.6       | 34.68                  | 11.53           | 46.61              | 100                 | 110                  | Peak    |
| 5500                                                | 98.64                   | 99                | /              | /           | 34.7                   | 11.56           | 46.62              | 100                 | 110                  | Peak    |
| 5500                                                | 93.31                   | 93.67             | /              | /           | 34.7                   | 11.56           | 46.62              | 100                 | 110                  | 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. (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                                                | 50.78                         | 51.49                   | 74                | -23.22         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.03                         | 45.74                   | 54                | -8.97          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 50.19                         | 50.88                   | 68.2              | -18.01         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5580                                                | 98.39                         | 98.9                    | /                 | /              | 34.54                        | 11.59                 | 46.64                    | 100                       | 300                        | Peak    |
| 5580                                                | 93.24                         | 93.75                   | /                 | /              | 34.54                        | 11.59                 | 46.64                    | 100                       | 300                        | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                               |                         |                   |                |                              |                       |                          |                           |                            |         |
| FREQ. (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                                                | 51.92                         | 52.34                   | 74                | -22.08         | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Peak    |
| 5460                                                | 45.22                         | 45.64                   | 54                | -8.78          | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Average |
| 5470                                                | 50.87                         | 51.27                   | 68.2              | -17.33         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |
| 5580                                                | 96.3                          | 96.52                   | /                 | /              | 34.83                        | 11.59                 | 46.64                    | 100                       | 115                        | Peak    |
| 5580                                                | 91.53                         | 91.75                   | /                 | /              | 34.83                        | 11.59                 | 46.64                    | 100                       | 115                        | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.



**BUREAU  
VERITAS**

**Test Report No.: W7L-P24090003RF03**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <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. (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                                                | 97.58                         | 97.86                   | /                 | /              | 34.76                        | 11.64                 | 46.68                    | 100                       | 55                         | Peak    |
| 5700                                                | 91.89                         | 92.17                   | /                 | /              | 34.76                        | 11.64                 | 46.68                    | 100                       | 55                         | Average |
| 5725                                                | 52.11                         | 52.8                    | 68.2              | -16.09         | 34.39                        | 11.53                 | 46.61                    | 100                       | 55                         | 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/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                                                | 96.56                         | 96.58                   | /                 | /              | 35.02                        | 11.64                 | 46.68                    | 100                       | 115                        | Peak    |
| 5700                                                | 91.01                         | 91.03                   | /                 | /              | 35.02                        | 11.64                 | 46.68                    | 100                       | 115                        | Average |
| 5725                                                | 53.21                         | 53.61                   | 68.2              | -14.99         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | 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. (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                                                | 52.46                         | 53.15                   | 68.2              | -15.74         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5720                                                | 97.35                         | 97.59                   | /                 | /              | 34.8                         | 11.64                 | 46.68                    | 100                       | 300                        | Peak    |
| 5720                                                | 91.09                         | 91.33                   | /                 | /              | 34.8                         | 11.64                 | 46.68                    | 100                       | 300                        | Average |
| 5850                                                | 51.32                         | 51.32                   | 68.2              | -16.88         | 35.03                        | 11.69                 | 46.72                    | 100                       | 300                        | 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/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                                                | 49.66                         | 50.06                   | 68.2              | -18.54         | 34.68                        | 11.53                 | 46.61                    | 100                       | 110                        | Peak    |
| 5720                                                | 97.02                         | 97.01                   | /                 | /              | 35.05                        | 11.64                 | 46.68                    | 100                       | 110                        | Peak    |
| 5720                                                | 90.97                         | 90.96                   | /                 | /              | 35.05                        | 11.64                 | 46.68                    | 100                       | 110                        | Average |
| 5850                                                | 52                            | 51.77                   | 68.2              | -16.2          | 35.26                        | 11.69                 | 46.72                    | 100                       | 110                        | 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.



Test Report No.: W7L-P24090003RF03

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. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5460                                                | 52.11                   | 52.82             | 74             | -21.89      | 34.38                  | 11.52           | 46.61              | 100                 | 305                  | Peak    |
| 5460                                                | 45.18                   | 45.89             | 54             | -8.82       | 34.38                  | 11.52           | 46.61              | 100                 | 305                  | Average |
| 5470                                                | 52.64                   | 53.33             | 68.2           | -15.56      | 34.39                  | 11.53           | 46.61              | 100                 | 305                  | Peak    |
| 5500                                                | 98.13                   | 98.79             | /              | /           | 34.4                   | 11.56           | 46.62              | 100                 | 305                  | Peak    |
| 5500                                                | 92.35                   | 93.01             | /              | /           | 34.4                   | 11.56           | 46.62              | 100                 | 305                  | Average |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                         |                   |                |             |                        |                 |                    |                     |                      |         |
| FREQ. (MHz)                                         | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB /m) | CABLE LOSS (dB) | PREAMP FACTOR (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK  |
| 5460                                                | 50.65                   | 51.07             | 74             | -23.35      | 34.67                  | 11.52           | 46.61              | 100                 | 110                  | Peak    |
| 5460                                                | 45.49                   | 45.91             | 54             | -8.51       | 34.67                  | 11.52           | 46.61              | 100                 | 110                  | Average |
| 5470                                                | 52.33                   | 52.73             | 68.2           | -15.87      | 34.68                  | 11.53           | 46.61              | 100                 | 110                  | Peak    |
| 5500                                                | 96.64                   | 97                | /              | /           | 34.7                   | 11.56           | 46.62              | 100                 | 110                  | Peak    |
| 5500                                                | 90.58                   | 90.94             | /              | /           | 34.7                   | 11.56           | 46.62              | 100                 | 110                  | 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                                                | 51.98                         | 52.69                   | 74                | -22.02         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.06                         | 45.77                   | 54                | -8.94          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 49.94                         | 50.63                   | 68.2              | -18.26         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5580                                                | 96.78                         | 97.29                   | /                 | /              | 34.54                        | 11.59                 | 46.64                    | 100                       | 300                        | Peak    |
| 5580                                                | 90.97                         | 91.48                   | /                 | /              | 34.54                        | 11.59                 | 46.64                    | 100                       | 300                        | 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                                                | 53.48                         | 53.9                    | 74                | -20.52         | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Peak    |
| 5460                                                | 45.3                          | 45.72                   | 54                | -8.7           | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Average |
| 5470                                                | 52.28                         | 52.68                   | 68.2              | -15.92         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |
| 5580                                                | 94.72                         | 94.94                   | /                 | /              | 34.83                        | 11.59                 | 46.64                    | 100                       | 115                        | Peak    |
| 5580                                                | 88.53                         | 88.75                   | /                 | /              | 34.83                        | 11.59                 | 46.64                    | 100                       | 115                        | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: 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                                                | 96.09                         | 96.37                   | /                 | /              | 34.76                        | 11.64                 | 46.68                    | 100                       | 55                         | Peak    |
| 5700                                                | 89.73                         | 90.01                   | /                 | /              | 34.76                        | 11.64                 | 46.68                    | 100                       | 55                         | Average |
| 5725                                                | 51.92                         | 52.61                   | 68.2              | -16.28         | 34.39                        | 11.53                 | 46.61                    | 100                       | 55                         | 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                                                | 94.16                         | 94.18                   | /                 | /              | 35.02                        | 11.64                 | 46.68                    | 100                       | 115                        | Peak    |
| 5700                                                | 88.69                         | 88.71                   | /                 | /              | 35.02                        | 11.64                 | 46.68                    | 100                       | 115                        | Average |
| 5725                                                | 52.41                         | 52.81                   | 68.2              | -15.79         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | 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                                                | 51.97                         | 52.66                   | 68.2              | -16.23         | 34.39                        | 11.53                 | 46.61                    | 100                       | 55                         | Peak    |
| 5720                                                | 93.98                         | 94.22                   | /                 | /              | 34.8                         | 11.64                 | 46.68                    | 100                       | 55                         | Peak    |
| 5720                                                | 88.43                         | 88.67                   | /                 | /              | 34.8                         | 11.64                 | 46.68                    | 100                       | 55                         | Average |
| 5850                                                | 52.78                         | 52.78                   | 68.2              | -15.42         | 35.03                        | 11.69                 | 46.72                    | 100                       | 55                         | 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                                                | 51.09                         | 51.49                   | 68.2              | -17.11         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |
| 5720                                                | 94.21                         | 94.2                    | /                 | /              | 35.05                        | 11.64                 | 46.68                    | 100                       | 115                        | Peak    |
| 5720                                                | 88.79                         | 88.78                   | /                 | /              | 35.05                        | 11.64                 | 46.68                    | 100                       | 115                        | Average |
| 5850                                                | 51.9                          | 51.67                   | 68.2              | -16.3          | 35.26                        | 11.69                 | 46.72                    | 100                       | 115                        | 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)

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 102 | 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                                                | 50.98                         | 51.69                   | 74                | -23.02         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.13                         | 45.84                   | 54                | -8.87          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 53.52                         | 54.21                   | 68.2              | -14.68         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5510                                                | 94.95                         | 95.59                   | /                 | /              | 34.42                        | 11.56                 | 46.62                    | 100                       | 300                        | Peak    |
| 5510                                                | 89.34                         | 89.98                   | /                 | /              | 34.42                        | 11.56                 | 46.62                    | 100                       | 300                        | 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                                                | 51.46                         | 51.88                   | 74                | -22.54         | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Peak    |
| 5460                                                | 45.53                         | 45.95                   | 54                | -8.47          | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Average |
| 5470                                                | 51.72                         | 52.12                   | 68.2              | -16.48         | 34.68                        | 11.53                 | 46.61                    | 100                       | 110                        | Peak    |
| 5510                                                | 93.82                         | 94.16                   | /                 | /              | 34.72                        | 11.56                 | 46.62                    | 100                       | 110                        | Peak    |
| 5510                                                | 88.18                         | 88.52                   | /                 | /              | 34.72                        | 11.56                 | 46.62                    | 100                       | 110                        | 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                                                | 52.17                         | 52.88                   | 74                | -21.83         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.1                          | 45.81                   | 54                | -8.9           | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 50.75                         | 51.44                   | 68.2              | -17.45         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5550                                                | 95.19                         | 95.75                   | /                 | /              | 34.49                        | 11.58                 | 46.63                    | 100                       | 300                        | Peak    |
| 5550                                                | 89.45                         | 90.01                   | /                 | /              | 34.49                        | 11.58                 | 46.63                    | 100                       | 300                        | 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                                                | 52.26                         | 52.68                   | 74                | -21.74         | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Peak    |
| 5460                                                | 45.38                         | 45.8                    | 54                | -8.62          | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Average |
| 5470                                                | 51.05                         | 51.45                   | 68.2              | -17.15         | 34.68                        | 11.53                 | 46.61                    | 100                       | 110                        | Peak    |
| 5550                                                | 93.61                         | 93.88                   | /                 | /              | 34.78                        | 11.58                 | 46.63                    | 100                       | 110                        | Peak    |
| 5550                                                | 87.75                         | 88.02                   | /                 | /              | 34.78                        | 11.58                 | 46.63                    | 100                       | 110                        | 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                                                | 94.33                         | 94.67                   | /                 | /              | 34.71                        | 11.62                 | 46.67                    | 100                       | 45                         | Peak    |
| 5670                                                | 88.27                         | 88.61                   | /                 | /              | 34.71                        | 11.62                 | 46.67                    | 100                       | 45                         | Average |
| 5725                                                | 51.31                         | 52                      | 68.2              | -16.89         | 34.39                        | 11.53                 | 46.61                    | 100                       | 45                         | 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                                                | 92.36                         | 92.44                   | /                 | /              | 34.97                        | 11.62                 | 46.67                    | 100                       | 115                        | Peak    |
| 5670                                                | 87.06                         | 87.14                   | /                 | /              | 34.97                        | 11.62                 | 46.67                    | 100                       | 115                        | Average |
| 5725                                                | 53.43                         | 53.83                   | 68.2              | -14.77         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | 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                                                | 51.26                         | 51.95                   | 68.2              | -16.94         | 34.39                        | 11.53                 | 46.61                    | 100                       | 45                         | Peak    |
| 5710                                                | 93.58                         | 93.84                   | /                 | /              | 34.78                        | 11.64                 | 46.68                    | 100                       | 45                         | Peak    |
| 5710                                                | 87.7                          | 87.96                   | /                 | /              | 34.78                        | 11.64                 | 46.68                    | 100                       | 45                         | Average |
| 5850                                                | 52.89                         | 52.89                   | 68.2              | -15.31         | 35.03                        | 11.69                 | 46.72                    | 100                       | 45                         | 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                                                | 53.35                         | 53.75                   | 68.2              | -14.85         | 34.68                        | 11.53                 | 46.61                    | 100                       | 110                        | Peak    |
| 5710                                                | 92.09                         | 92.09                   | /                 | /              | 35.04                        | 11.64                 | 46.68                    | 100                       | 110                        | Peak    |
| 5710                                                | 85.56                         | 85.56                   | /                 | /              | 35.04                        | 11.64                 | 46.68                    | 100                       | 110                        | Average |
| 5850                                                | 53.3                          | 53.07                   | 68.2              | -14.9          | 35.26                        | 11.69                 | 46.72                    | 100                       | 110                        | 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.

**802.11ax (20MHz)**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <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                                                | 52.57                         | 53.28                   | 74                | -21.43         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 44.98                         | 45.69                   | 54                | -9.02          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 51.06                         | 51.75                   | 68.2              | -17.14         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5500                                                | 98.23                         | 98.89                   | /                 | /              | 34.4                         | 11.56                 | 46.62                    | 100                       | 300                        | Peak    |
| 5500                                                | 90.1                          | 90.76                   | /                 | /              | 34.4                         | 11.56                 | 46.62                    | 100                       | 300                        | 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                                                | 51.66                         | 52.08                   | 74                | -22.34         | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Peak    |
| 5460                                                | 45.3                          | 45.72                   | 54                | -8.7           | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Average |
| 5470                                                | 52.74                         | 53.14                   | 68.2              | -15.46         | 34.68                        | 11.53                 | 46.61                    | 100                       | 110                        | Peak    |
| 5500                                                | 98.22                         | 98.58                   | /                 | /              | 34.7                         | 11.56                 | 46.62                    | 100                       | 110                        | Peak    |
| 5500                                                | 89.8                          | 90.16                   | /                 | /              | 34.7                         | 11.56                 | 46.62                    | 100                       | 110                        | 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.



|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 116 | 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                                                | 53.98                         | 54.69                   | 74                | -20.02         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.27                         | 45.98                   | 54                | -8.73          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 52.35                         | 53.04                   | 68.2              | -15.85         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5580                                                | 97.2                          | 97.71                   | /                 | /              | 34.54                        | 11.59                 | 46.64                    | 100                       | 300                        | Peak    |
| 5580                                                | 89.97                         | 90.48                   | /                 | /              | 34.54                        | 11.59                 | 46.64                    | 100                       | 300                        | 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                                                | 50.92                         | 51.34                   | 74                | -23.08         | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Peak    |
| 5460                                                | 45.3                          | 45.72                   | 54                | -8.7           | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Average |
| 5470                                                | 52.13                         | 52.53                   | 68.2              | -16.07         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |
| 5580                                                | 95.13                         | 95.35                   | /                 | /              | 34.83                        | 11.59                 | 46.64                    | 100                       | 115                        | Peak    |
| 5580                                                | 87.51                         | 87.73                   | /                 | /              | 34.83                        | 11.59                 | 46.64                    | 100                       | 115                        | 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                                                | 96.77                         | 97.05                   | /                 | /              | 34.76                        | 11.64                 | 46.68                    | 100                       | 300                        | Peak    |
| 5700                                                | 87.64                         | 87.92                   | /                 | /              | 34.76                        | 11.64                 | 46.68                    | 100                       | 300                        | Average |
| 5725                                                | 51.36                         | 52.05                   | 68.2              | -16.84         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | 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                                                | 95.84                         | 95.86                   | /                 | /              | 35.02                        | 11.64                 | 46.68                    | 100                       | 115                        | Peak    |
| 5700                                                | 87.19                         | 87.21                   | /                 | /              | 35.02                        | 11.64                 | 46.68                    | 100                       | 115                        | Average |
| 5725                                                | 53.69                         | 54.09                   | 68.2              | -14.51         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | 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                                                | 50.26                         | 50.95                   | 68.2              | -17.94         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5720                                                | 95.38                         | 95.62                   | /                 | /              | 34.8                         | 11.64                 | 46.68                    | 100                       | 300                        | Peak    |
| 5720                                                | 87.81                         | 88.05                   | /                 | /              | 34.8                         | 11.64                 | 46.68                    | 100                       | 300                        | Average |
| 5850                                                | 52.9                          | 52.9                    | 68.2              | -15.3          | 35.03                        | 11.69                 | 46.72                    | 100                       | 300                        | 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                                                | 53.19                         | 53.59                   | 68.2              | -15.01         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |
| 5720                                                | 95.66                         | 95.65                   | /                 | /              | 35.05                        | 11.64                 | 46.68                    | 100                       | 115                        | Peak    |
| 5720                                                | 87.13                         | 87.12                   | /                 | /              | 35.05                        | 11.64                 | 46.68                    | 100                       | 115                        | Average |
| 5850                                                | 53.1                          | 52.87                   | 68.2              | -15.1          | 35.26                        | 11.69                 | 46.72                    | 100                       | 115                        | 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.

**802.11ax (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                                                | 50.43                         | 51.14                   | 74                | -23.57         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.18                         | 45.89                   | 54                | -8.82          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 51.31                         | 52                      | 68.2              | -16.89         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5510                                                | 95.76                         | 96.4                    | /                 | /              | 34.42                        | 11.56                 | 46.62                    | 100                       | 300                        | Peak    |
| 5510                                                | 88.01                         | 88.65                   | /                 | /              | 34.42                        | 11.56                 | 46.62                    | 100                       | 300                        | 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                                                | 50.07                         | 50.49                   | 74                | -23.93         | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Peak    |
| 5460                                                | 45.5                          | 45.92                   | 54                | -8.5           | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Average |
| 5470                                                | 50.36                         | 50.76                   | 68.2              | -17.84         | 34.68                        | 11.53                 | 46.61                    | 100                       | 110                        | Peak    |
| 5510                                                | 95.11                         | 95.45                   | /                 | /              | 34.72                        | 11.56                 | 46.62                    | 100                       | 110                        | Peak    |
| 5510                                                | 86.87                         | 87.21                   | /                 | /              | 34.72                        | 11.56                 | 46.62                    | 100                       | 110                        | 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                                                | 50.9                          | 51.61                   | 74                | -23.1          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.11                         | 45.82                   | 54                | -8.89          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 50.14                         | 50.83                   | 68.2              | -18.06         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5550                                                | 96.71                         | 97.27                   | /                 | /              | 34.49                        | 11.58                 | 46.63                    | 100                       | 300                        | Peak    |
| 5550                                                | 87.94                         | 88.5                    | /                 | /              | 34.49                        | 11.58                 | 46.63                    | 100                       | 300                        | 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                                                | 50.71                         | 51.13                   | 74                | -23.29         | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Peak    |
| 5460                                                | 45.38                         | 45.8                    | 54                | -8.62          | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Average |
| 5470                                                | 52.25                         | 52.65                   | 68.2              | -15.95         | 34.68                        | 11.53                 | 46.61                    | 100                       | 110                        | Peak    |
| 5550                                                | 94.96                         | 95.23                   | /                 | /              | 34.78                        | 11.58                 | 46.63                    | 100                       | 110                        | Peak    |
| 5550                                                | 86.43                         | 86.7                    | /                 | /              | 34.78                        | 11.58                 | 46.63                    | 100                       | 110                        | 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                                                | 94.79                         | 95.13                   | /                 | /              | 34.71                        | 11.62                 | 46.67                    | 100                       | 300                        | Peak    |
| 5670                                                | 85.96                         | 86.3                    | /                 | /              | 34.71                        | 11.62                 | 46.67                    | 100                       | 300                        | Average |
| 5725                                                | 52.92                         | 53.61                   | 68.2              | -15.28         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | 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                                                | 94.26                         | 94.34                   | /                 | /              | 34.97                        | 11.62                 | 46.67                    | 100                       | 115                        | Peak    |
| 5670                                                | 84.99                         | 85.07                   | /                 | /              | 34.97                        | 11.62                 | 46.67                    | 100                       | 115                        | Average |
| 5725                                                | 52.91                         | 53.31                   | 68.2              | -15.29         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5670MHz: Fundamental frequency.
3. #: 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                                                | 50.99                         | 51.68                   | 68.2              | -17.21         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5710                                                | 94.04                         | 94.3                    | /                 | /              | 34.78                        | 11.64                 | 46.68                    | 100                       | 300                        | Peak    |
| 5710                                                | 85.11                         | 85.37                   | /                 | /              | 34.78                        | 11.64                 | 46.68                    | 100                       | 300                        | Average |
| 5850                                                | 52.35                         | 52.35                   | 68.2              | -15.85         | 35.03                        | 11.69                 | 46.72                    | 100                       | 300                        | 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                                                | 51.19                         | 51.59                   | 68.2              | -17.01         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |
| 5710                                                | 92.33                         | 92.33                   | /                 | /              | 35.04                        | 11.64                 | 46.68                    | 100                       | 115                        | Peak    |
| 5710                                                | 84.01                         | 84.01                   | /                 | /              | 35.04                        | 11.64                 | 46.68                    | 100                       | 115                        | Average |
| 5850                                                | 55.58                         | 55.35                   | 68.2              | -12.62         | 35.26                        | 11.69                 | 46.72                    | 100                       | 115                        | 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.



**802.11ax (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                                                | 51.38                         | 51.79                   | 74                | -22.62         | 34.58                        | 11.52                 | 46.51                    | 100                       | 50                         | Peak    |
| 5460                                                | 46.17                         | 46.58                   | 54                | -7.83          | 34.58                        | 11.52                 | 46.51                    | 100                       | 50                         | Average |
| 5470                                                | 52.32                         | 52.74                   | 68.2              | -15.88         | 34.56                        | 11.53                 | 46.51                    | 100                       | 50                         | Peak    |
| 5530                                                | 91.02                         | 91.57                   | /                 | /              | 34.38                        | 11.57                 | 46.5                     | 100                       | 50                         | Peak    |
| 5530                                                | 82.56                         | 83.11                   | /                 | /              | 34.38                        | 11.57                 | 46.5                     | 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  |
| 5460                                                | 50.62                         | 51.33                   | 74                | -23.38         | 34.28                        | 11.52                 | 46.51                    | 100                       | 100                        | Peak    |
| 5460                                                | 45.33                         | 46.04                   | 54                | -8.67          | 34.28                        | 11.52                 | 46.51                    | 100                       | 100                        | Average |
| 5470                                                | 51.64                         | 52.36                   | 68.2              | -16.56         | 34.26                        | 11.53                 | 46.51                    | 100                       | 100                        | Peak    |
| 5530                                                | 88.77                         | 89.2                    | /                 | /              | 34.5                         | 11.57                 | 46.5                     | 100                       | 100                        | Peak    |
| 5530                                                | 80.43                         | 80.86                   | /                 | /              | 34.5                         | 11.57                 | 46.5                     | 100                       | 100                        | 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                                                | 53.09                         | 53.8                    | 74                | -20.91         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.26                         | 45.97                   | 54                | -8.74          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 49.56                         | 50.25                   | 68.2              | -18.64         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5610                                                | 89.93                         | 90.38                   | /                 | /              | 34.6                         | 11.6                  | 46.65                    | 100                       | 300                        | Peak    |
| 5610                                                | 82.57                         | 83.02                   | /                 | /              | 34.6                         | 11.6                  | 46.65                    | 100                       | 300                        | 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                                                | 50.22                         | 50.64                   | 74                | -23.78         | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Peak    |
| 5460                                                | 45.48                         | 45.9                    | 54                | -8.52          | 34.67                        | 11.52                 | 46.61                    | 100                       | 110                        | Average |
| 5470                                                | 50.87                         | 51.27                   | 68.2              | -17.33         | 34.68                        | 11.53                 | 46.61                    | 100                       | 110                        | Peak    |
| 5610                                                | 88.13                         | 88.3                    | /                 | /              | 34.88                        | 11.6                  | 46.65                    | 100                       | 110                        | Peak    |
| 5610                                                | 80.25                         | 80.42                   | /                 | /              | 34.88                        | 11.6                  | 46.65                    | 100                       | 110                        | 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                                                | 49.69                         | 50.38                   | 68.2              | -18.51         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5690                                                | 89.1                          | 89.4                    | /                 | /              | 34.74                        | 11.63                 | 46.67                    | 100                       | 300                        | Peak    |
| 5690                                                | 82.22                         | 82.52                   | /                 | /              | 34.74                        | 11.63                 | 46.67                    | 100                       | 300                        | Average |
| 5850                                                | 51.92                         | 51.92                   | 68.2              | -16.28         | 35.03                        | 11.69                 | 46.72                    | 100                       | 300                        | 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                                                | 51.95                         | 52.35                   | 68.2              | -16.25         | 34.68                        | 11.53                 | 46.61                    | 100                       | 110                        | Peak    |
| 5690                                                | 88.31                         | 88.35                   | /                 | /              | 35                           | 11.63                 | 46.67                    | 100                       | 110                        | Peak    |
| 5690                                                | 81.12                         | 81.16                   | /                 | /              | 35                           | 11.63                 | 46.67                    | 100                       | 110                        | Average |
| 5850                                                | 51.37                         | 51.14                   | 68.2              | -16.83         | 35.26                        | 11.69                 | 46.72                    | 100                       | 110                        | Peak    |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5690MHz: Fundamental frequency.
3. #: Out of restricted band.



## 802.11ac(80MHz)

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 106 | 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                                                | 53.03                         | 53.74                   | 74                | -20.97         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.51                         | 46.22                   | 54                | -8.49          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 52.07                         | 52.76                   | 68.2              | -16.13         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5530                                                | 89.08                         | 89.69                   | /                 | /              | 34.45                        | 11.57                 | 46.63                    | 100                       | 300                        | Peak    |
| 5530                                                | 81.42                         | 82.03                   | /                 | /              | 34.45                        | 11.57                 | 46.63                    | 100                       | 300                        | 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                                                | 51.21                         | 51.63                   | 74                | -22.79         | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Peak    |
| 5460                                                | 45.42                         | 45.84                   | 54                | -8.58          | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Average |
| 5470                                                | 52.02                         | 52.42                   | 68.2              | -16.18         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |
| 5530                                                | 88.14                         | 88.45                   | /                 | /              | 34.75                        | 11.57                 | 46.63                    | 100                       | 115                        | Peak    |
| 5530                                                | 78.53                         | 78.84                   | /                 | /              | 34.75                        | 11.57                 | 46.63                    | 100                       | 115                        | 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.



|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 122 | 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                                                | 51.21                         | 51.92                   | 74                | -22.79         | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Peak    |
| 5460                                                | 45.08                         | 45.79                   | 54                | -8.92          | 34.38                        | 11.52                 | 46.61                    | 100                       | 300                        | Average |
| 5470                                                | 53.28                         | 53.97                   | 68.2              | -14.92         | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5610                                                | 86.75                         | 87.2                    | /                 | /              | 34.6                         | 11.6                  | 46.65                    | 100                       | 300                        | Peak    |
| 5610                                                | 80.4                          | 80.85                   | /                 | /              | 34.6                         | 11.6                  | 46.65                    | 100                       | 300                        | 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                                                | 53.58                         | 54                      | 74                | -20.42         | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Peak    |
| 5460                                                | 45.37                         | 45.79                   | 54                | -8.63          | 34.67                        | 11.52                 | 46.61                    | 100                       | 115                        | Average |
| 5470                                                | 50.97                         | 51.37                   | 68.2              | -17.23         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |
| 5610                                                | 85.2                          | 85.37                   | /                 | /              | 34.88                        | 11.6                  | 46.65                    | 100                       | 115                        | Peak    |
| 5610                                                | 78.29                         | 78.46                   | /                 | /              | 34.88                        | 11.6                  | 46.65                    | 100                       | 115                        | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5610MHz: Fundamental frequency.
3. #: 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                                                | 50.6                          | 51.29                   | 68.2              | -17.6          | 34.39                        | 11.53                 | 46.61                    | 100                       | 300                        | Peak    |
| 5690                                                | 87.02                         | 87.32                   | /                 | /              | 34.74                        | 11.63                 | 46.67                    | 100                       | 300                        | Peak    |
| 5690                                                | 80.25                         | 80.55                   | /                 | /              | 34.74                        | 11.63                 | 46.67                    | 100                       | 300                        | Average |
| 5850                                                | 51.84                         | 51.84                   | 68.2              | -16.36         | 35.03                        | 11.69                 | 46.72                    | 100                       | 300                        | 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                                                | 51.14                         | 51.54                   | 68.2              | -17.06         | 34.68                        | 11.53                 | 46.61                    | 100                       | 115                        | Peak    |
| 5690                                                | 86.1                          | 86.14                   | /                 | /              | 35                           | 11.63                 | 46.67                    | 100                       | 115                        | Peak    |
| 5690                                                | 79.55                         | 79.59                   | /                 | /              | 35                           | 11.63                 | 46.67                    | 100                       | 115                        | Average |
| 5850                                                | 52.6                          | 52.37                   | 68.2              | -15.6          | 35.26                        | 11.69                 | 46.72                    | 100                       | 115                        | Peak    |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5690MHz: Fundamental frequency.
3. #: Out of restricted band.



## 5G WIFI-RU

## 802.11ax (20MHz) (RU242):

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| 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                                                | 51.65                         | 52.36                   | 74                | -22.35         | 34.38                        | 11.52                 | 46.61                    | 100                       | 305                        | Peak    |
| 5460                                                | 45.26                         | 45.97                   | 54                | -8.74          | 34.38                        | 11.52                 | 46.61                    | 100                       | 305                        | Average |
| 5470                                                | 53.86                         | 54.55                   | 68.2              | -14.34         | 34.39                        | 11.53                 | 46.61                    | 100                       | 305                        | Peak    |
| 5500                                                | 98.56                         | 99.22                   | /                 | /              | 34.4                         | 11.56                 | 46.62                    | 100                       | 305                        | Peak    |
| 5500                                                | 89.81                         | 90.47                   | /                 | /              | 34.4                         | 11.56                 | 46.62                    | 100                       | 305                        | 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                                                | 52.22                         | 52.64                   | 74                | -21.78         | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Peak    |
| 5460                                                | 45.43                         | 45.85                   | 54                | -8.57          | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Average |
| 5470                                                | 53.02                         | 53.42                   | 68.2              | -15.18         | 34.68                        | 11.53                 | 46.61                    | 100                       | 165                        | Peak    |
| 5500                                                | 96.86                         | 97.22                   | /                 | /              | 34.7                         | 11.56                 | 46.62                    | 100                       | 165                        | Peak    |
| 5500                                                | 88.27                         | 88.63                   | /                 | /              | 34.7                         | 11.56                 | 46.62                    | 100                       | 165                        | 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                                                | 53.32                         | 54.03                   | 74                | -20.68         | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Peak    |
| 5460                                                | 45.32                         | 46.03                   | 54                | -8.68          | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Average |
| 5470                                                | 52.79                         | 53.48                   | 68.2              | -15.41         | 34.39                        | 11.53                 | 46.61                    | 100                       | 90                         | Peak    |
| 5580                                                | 100.36                        | 100.87                  | /                 | /              | 34.54                        | 11.59                 | 46.64                    | 100                       | 90                         | Peak    |
| 5580                                                | 91.05                         | 91.56                   | /                 | /              | 34.54                        | 11.59                 | 46.64                    | 100                       | 90                         | 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                                                | 52.53                         | 52.95                   | 74                | -21.47         | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Peak    |
| 5460                                                | 45.33                         | 45.75                   | 54                | -8.67          | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Average |
| 5470                                                | 53.53                         | 53.93                   | 68.2              | -14.67         | 34.68                        | 11.53                 | 46.61                    | 100                       | 165                        | Peak    |
| 5580                                                | 96.83                         | 97.05                   | /                 | /              | 34.83                        | 11.59                 | 46.64                    | 100                       | 165                        | Peak    |
| 5580                                                | 89.34                         | 89.56                   | /                 | /              | 34.83                        | 11.59                 | 46.64                    | 100                       | 165                        | Average |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: 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                                                | 99.4                          | 99.68                   | /                 | /              | 34.76                        | 11.64                 | 46.68                    | 100                       | 90                         | Peak    |
| 5700                                                | 89.95                         | 90.23                   | /                 | /              | 34.76                        | 11.64                 | 46.68                    | 100                       | 90                         | Average |
| 5725                                                | 52.72                         | 52.94                   | 68.2              | -15.48         | 34.81                        | 11.65                 | 46.68                    | 100                       | 90                         | 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                                                | 96.23                         | 96.25                   | /                 | /              | 35.02                        | 11.64                 | 46.68                    | 100                       | 165                        | Peak    |
| 5700                                                | 88.61                         | 88.63                   | /                 | /              | 35.02                        | 11.64                 | 46.68                    | 100                       | 165                        | Average |
| 5725                                                | 53.99                         | 53.96                   | 68.2              | -14.21         | 35.06                        | 11.65                 | 46.68                    | 100                       | 165                        | 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                                                | 52.5                          | 53.19                   | 68.2              | -15.7          | 34.39                        | 11.53                 | 46.61                    | 100                       | 90                         | Peak    |
| 5720                                                | 100.3                         | 100.54                  | /                 | /              | 34.8                         | 11.64                 | 46.68                    | 100                       | 90                         | Peak    |
| 5720                                                | 92.11                         | 92.35                   | /                 | /              | 34.8                         | 11.64                 | 46.68                    | 100                       | 90                         | Average |
| 5850                                                | 53.62                         | 53.62                   | 68.2              | -14.58         | 35.03                        | 11.69                 | 46.72                    | 100                       | 90                         | 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                                                | 52.53                         | 52.93                   | 68.2              | -15.67         | 34.68                        | 11.53                 | 46.61                    | 100                       | 0                          | Peak    |
| 5720                                                | 97.45                         | 97.44                   | /                 | /              | 35.05                        | 11.64                 | 46.68                    | 100                       | 0                          | Peak    |
| 5720                                                | 88.62                         | 88.61                   | /                 | /              | 35.05                        | 11.64                 | 46.68                    | 100                       | 0                          | Average |
| 5850                                                | 53.42                         | 53.19                   | 68.2              | -14.78         | 35.26                        | 11.69                 | 46.72                    | 100                       | 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.



## 802.11ax (40MHz) (RU484):

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 102 | 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                                                | 52.6                          | 53.31                   | 74                | -21.4          | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Peak    |
| 5460                                                | 45.05                         | 45.76                   | 54                | -8.95          | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Average |
| 5470                                                | 51.47                         | 52.16                   | 68.2              | -16.73         | 34.39                        | 11.53                 | 46.61                    | 100                       | 90                         | Peak    |
| 5510                                                | 95.56                         | 96.2                    | /                 | /              | 34.42                        | 11.56                 | 46.62                    | 100                       | 90                         | Peak    |
| 5510                                                | 87.92                         | 88.56                   | /                 | /              | 34.42                        | 11.56                 | 46.62                    | 100                       | 90                         | 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                                                | 52.92                         | 53.34                   | 74                | -21.08         | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Peak    |
| 5460                                                | 45.33                         | 45.75                   | 54                | -8.67          | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Average |
| 5470                                                | 51.77                         | 52.17                   | 68.2              | -16.43         | 34.68                        | 11.53                 | 46.61                    | 100                       | 165                        | Peak    |
| 5510                                                | 92.94                         | 93.28                   | /                 | /              | 34.72                        | 11.56                 | 46.62                    | 100                       | 165                        | Peak    |
| 5510                                                | 84.43                         | 84.77                   | /                 | /              | 34.72                        | 11.56                 | 46.62                    | 100                       | 165                        | 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                                                | 51.22                         | 51.93                   | 74                | -22.78         | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Peak    |
| 5460                                                | 45.14                         | 45.85                   | 54                | -8.86          | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Average |
| 5470                                                | 51.44                         | 52.13                   | 68.2              | -16.76         | 34.39                        | 11.53                 | 46.61                    | 100                       | 90                         | Peak    |
| 5550                                                | 95.36                         | 95.92                   | /                 | /              | 34.49                        | 11.58                 | 46.63                    | 100                       | 90                         | Peak    |
| 5550                                                | 87.57                         | 88.13                   | /                 | /              | 34.49                        | 11.58                 | 46.63                    | 100                       | 90                         | 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                                                | 51.75                         | 52.17                   | 74                | -22.25         | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Peak    |
| 5460                                                | 45.18                         | 45.6                    | 54                | -8.82          | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Average |
| 5470                                                | 52.38                         | 52.78                   | 68.2              | -15.82         | 34.68                        | 11.53                 | 46.61                    | 100                       | 165                        | Peak    |
| 5550                                                | 92.97                         | 93.24                   | /                 | /              | 34.78                        | 11.58                 | 46.63                    | 100                       | 165                        | Peak    |
| 5550                                                | 85.5                          | 85.77                   | /                 | /              | 34.78                        | 11.58                 | 46.63                    | 100                       | 165                        | 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                                                | 94.79                         | 95.13                   | /                 | /              | 34.71                        | 11.62                 | 46.67                    | 100                       | 90                         | Peak    |
| 5670                                                | 88.31                         | 88.65                   | /                 | /              | 34.71                        | 11.62                 | 46.67                    | 100                       | 90                         | Average |
| 5725                                                | 52.75                         | 53.44                   | 68.2              | -15.45         | 34.39                        | 11.53                 | 46.61                    | 100                       | 90                         | 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                                                | 92.45                         | 92.53                   | /                 | /              | 34.97                        | 11.62                 | 46.67                    | 100                       | 165                        | Peak    |
| 5670                                                | 86.23                         | 86.31                   | /                 | /              | 34.97                        | 11.62                 | 46.67                    | 100                       | 165                        | Average |
| 5725                                                | 52.45                         | 52.85                   | 68.2              | -15.75         | 34.68                        | 11.53                 | 46.61                    | 100                       | 165                        | 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                                                | 51.99                         | 52.68                   | 68.2              | -16.21         | 34.39                        | 11.53                 | 46.61                    | 100                       | 90                         | Peak    |
| 5710                                                | 95.11                         | 95.37                   | /                 | /              | 34.78                        | 11.64                 | 46.68                    | 100                       | 90                         | Peak    |
| 5710                                                | 86.87                         | 87.13                   | /                 | /              | 34.78                        | 11.64                 | 46.68                    | 100                       | 90                         | Average |
| 5850                                                | 52.72                         | 52.72                   | 68.2              | -15.48         | 35.03                        | 11.69                 | 46.72                    | 100                       | 90                         | 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                                                | 52.48                         | 52.88                   | 68.2              | -15.72         | 34.68                        | 11.53                 | 46.61                    | 100                       | 165                        | Peak    |
| 5710                                                | 92.36                         | 92.36                   | /                 | /              | 35.04                        | 11.64                 | 46.68                    | 100                       | 165                        | Peak    |
| 5710                                                | 85.6                          | 85.6                    | /                 | /              | 35.04                        | 11.64                 | 46.68                    | 100                       | 165                        | Average |
| 5850                                                | 52.99                         | 52.76                   | 68.2              | -15.21         | 35.26                        | 11.69                 | 46.72                    | 100                       | 165                        | 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.



**802.11ax (80MHz) (RU996):**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <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                                                | 51.43                         | 52.14                   | 74                | -22.57         | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Peak    |
| 5460                                                | 45                            | 45.71                   | 54                | -9             | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Average |
| 5470                                                | 51.95                         | 52.64                   | 68.2              | -16.25         | 34.39                        | 11.53                 | 46.61                    | 100                       | 90                         | Peak    |
| 5530                                                | 91.68                         | 92.29                   | /                 | /              | 34.45                        | 11.57                 | 46.63                    | 100                       | 90                         | Peak    |
| 5530                                                | 84.85                         | 85.46                   | /                 | /              | 34.45                        | 11.57                 | 46.63                    | 100                       | 90                         | 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                                                | 51.53                         | 51.95                   | 74                | -22.47         | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Peak    |
| 5460                                                | 45.2                          | 45.62                   | 54                | -8.8           | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Average |
| 5470                                                | 52.05                         | 52.45                   | 68.2              | -16.15         | 34.68                        | 11.53                 | 46.61                    | 100                       | 165                        | Peak    |
| 5530                                                | 89.92                         | 90.23                   | /                 | /              | 34.75                        | 11.57                 | 46.63                    | 100                       | 165                        | Peak    |
| 5530                                                | 82.34                         | 82.65                   | /                 | /              | 34.75                        | 11.57                 | 46.63                    | 100                       | 165                        | 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                                                | 50.63                         | 51.34                   | 74                | -23.37         | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Peak    |
| 5460                                                | 44.78                         | 45.49                   | 54                | -9.22          | 34.38                        | 11.52                 | 46.61                    | 100                       | 90                         | Average |
| 5470                                                | 52.03                         | 52.72                   | 68.2              | -16.17         | 34.39                        | 11.53                 | 46.61                    | 100                       | 90                         | Peak    |
| 5610                                                | 90.81                         | 91.26                   | /                 | /              | 34.6                         | 11.6                  | 46.65                    | 100                       | 90                         | Peak    |
| 5610                                                | 82.94                         | 83.39                   | /                 | /              | 34.6                         | 11.6                  | 46.65                    | 100                       | 90                         | 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                                                | 51.33                         | 51.75                   | 74                | -22.67         | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Peak    |
| 5460                                                | 45.14                         | 45.56                   | 54                | -8.86          | 34.67                        | 11.52                 | 46.61                    | 100                       | 165                        | Average |
| 5470                                                | 51.68                         | 52.08                   | 68.2              | -16.52         | 34.68                        | 11.53                 | 46.61                    | 100                       | 165                        | Peak    |
| 5610                                                | 89.75                         | 89.92                   | /                 | /              | 34.88                        | 11.6                  | 46.65                    | 100                       | 165                        | Peak    |
| 5610                                                | 80.26                         | 80.43                   | /                 | /              | 34.88                        | 11.6                  | 46.65                    | 100                       | 165                        | 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                                                | 51.55                         | 52.24                   | 68.2              | -16.65         | 34.39                        | 11.53                 | 46.61                    | 100                       | 90                         | Peak    |
| 5690                                                | 92.62                         | 92.92                   | /                 | /              | 34.74                        | 11.63                 | 46.67                    | 100                       | 90                         | Peak    |
| 5690                                                | 83.34                         | 83.64                   | /                 | /              | 34.74                        | 11.63                 | 46.67                    | 100                       | 90                         | Average |
| 5850                                                | 51.62                         | 51.62                   | 68.2              | -16.58         | 35.03                        | 11.69                 | 46.72                    | 100                       | 90                         | 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                                                | 51.41                         | 51.81                   | 68.2              | -16.79         | 34.68                        | 11.53                 | 46.61                    | 100                       | 165                        | Peak    |
| 5690                                                | 89.59                         | 89.63                   | /                 | /              | 35                           | 11.63                 | 46.67                    | 100                       | 165                        | Peak    |
| 5690                                                | 80.26                         | 80.3                    | /                 | /              | 35                           | 11.63                 | 46.67                    | 100                       | 165                        | Average |
| 5850                                                | 52.88                         | 52.65                   | 68.2              | -15.32         | 35.26                        | 11.69                 | 46.72                    | 100                       | 165                        | Peak    |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5690MHz: Fundamental frequency.
3. #: Out of restricted band.



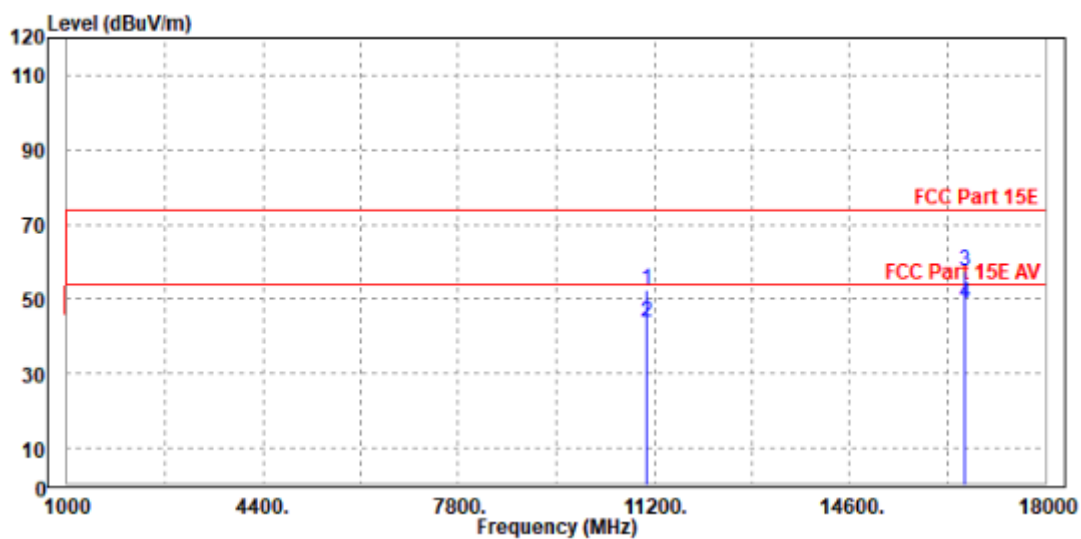
802.11ax (80MHz):

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

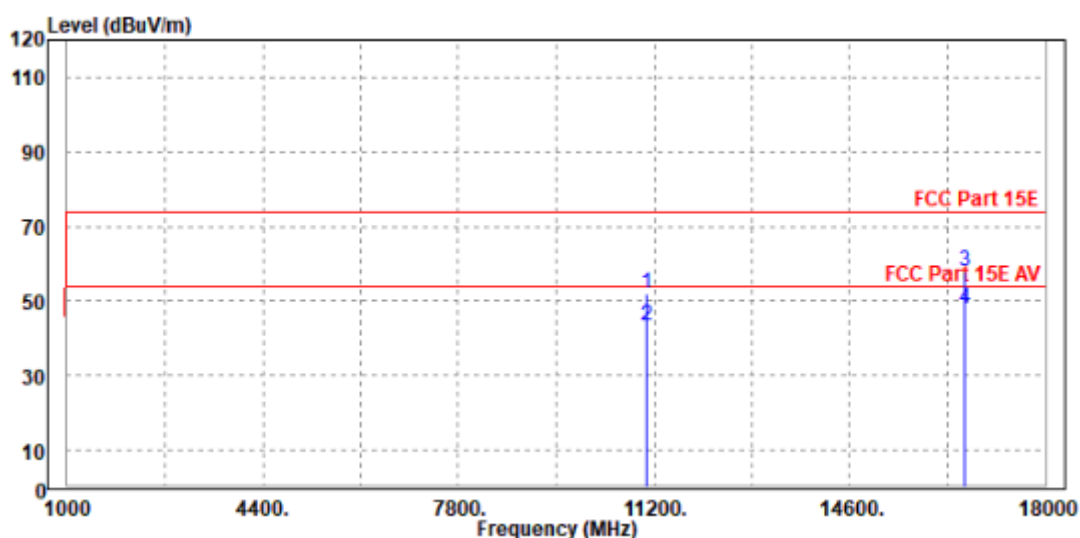
|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark  | Pol/Phase  |
|---|-------------|--------|------------|------------|------------|--------|---------|------------|
|   | MHz         | dBuV/m | dBuV       | dBuV/m     | dB         | dB/m   |         |            |
| 1 | 11064.000   | 52.35  | 45.37      | 74.00      | -21.65     | 6.98   | Peak    | Horizontal |
| 2 | 11064.000   | 44.02  | 37.04      | 54.00      | -9.98      | 6.98   | Average | Horizontal |
| 3 | PK16589.000 | 57.42  | 39.41      | 74.00      | -16.58     | 18.01  | Peak    | Horizontal |
| 4 | PP16589.000 | 49.02  | 31.01      | 54.00      | -4.98      | 18.01  | 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   | 51.96  | 44.45         | 74.00         | -22.04        | 7.51   | Peak    | Vertical  |
| 2 | 11064.000   | 43.47  | 35.96         | 54.00         | -10.53        | 7.51   | Average | Vertical  |
| 3 | PK16589.000 | 57.86  | 40.05         | 74.00         | -16.14        | 17.81  | Peak    | Vertical  |
| 4 | PP16589.000 | 48.03  | 30.22         | 54.00         | -5.97         | 17.81  | 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                                                | 100.21                        | 100.41                  | /                 | /              | 34.84                        | 11.65                 | 46.69                    | 100                       | 45                         | Peak    |
| 5745                                                | 92.67                         | 92.87                   | /                 | /              | 34.84                        | 11.65                 | 46.69                    | 100                       | 45                         | 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                                                | 100.2                         | 100.15                  | /                 | /              | 35.09                        | 11.65                 | 46.69                    | 100                       | 0                          | Peak    |
| 5745                                                | 91.15                         | 91.1                    | /                 | /              | 35.09                        | 11.65                 | 46.69                    | 100                       | 0                          | Average |

**REMARKS:**

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

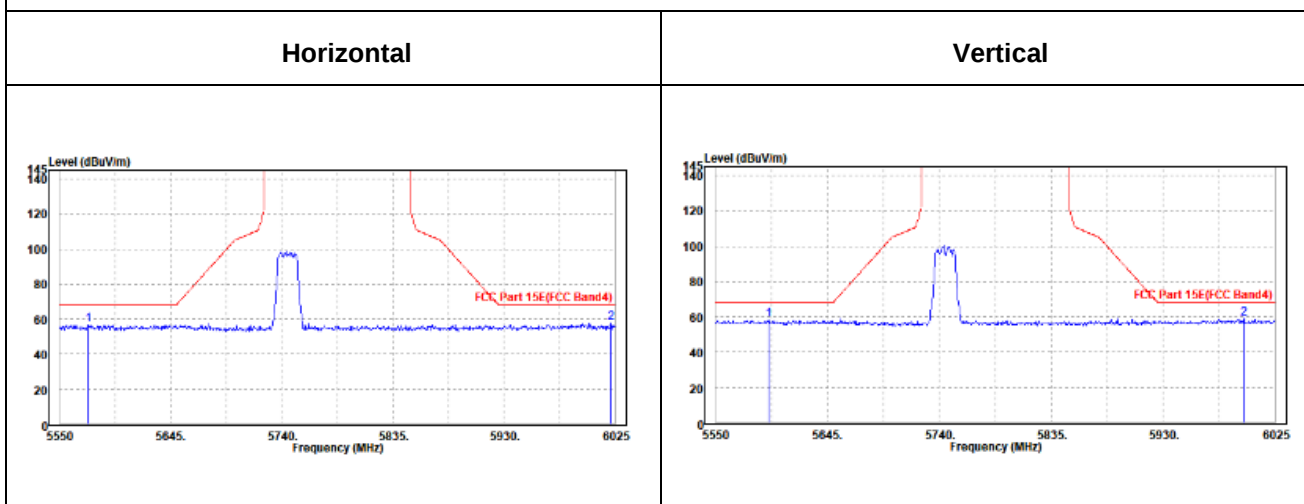


# OOBE DATA

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 |
| 5574.7                                              | 56.65                         | 57.17                   | 68.2              | -11.55         | 34.53                        | 11.59                 | 46.64                    | 100                       | 360                        | Peak   |
| 6021.2                                              | 57.91                         | 57.58                   | 68.2              | -10.29         | 35.31                        | 11.78                 | 46.76                    | 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 |
| 5594.65                                             | 58.18                         | 58.38                   | 68.2              | -10.02         | 34.85                        | 11.6                  | 46.65                    | 100                       | 360                        | Peak   |
| 5998.4                                              | 58.91                         | 58.42                   | 68.2              | -9.29          | 35.5                         | 11.75                 | 46.76                    | 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                                                | 99.71                         | 99.83                   | /                 | /              | 34.91                        | 11.67                 | 46.7                     | 100                       | 45                         | Peak    |
| 5785                                                | 91.66                         | 91.78                   | /                 | /              | 34.91                        | 11.67                 | 46.7                     | 100                       | 45                         | 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                                                | 100.09                        | 99.96                   | /                 | /              | 35.16                        | 11.67                 | 46.7                     | 100                       | 360                        | Peak    |
| 5785                                                | 92.47                         | 92.34                   | /                 | /              | 35.16                        | 11.67                 | 46.7                     | 100                       | 360                        | Average |

**REMARKS:**

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

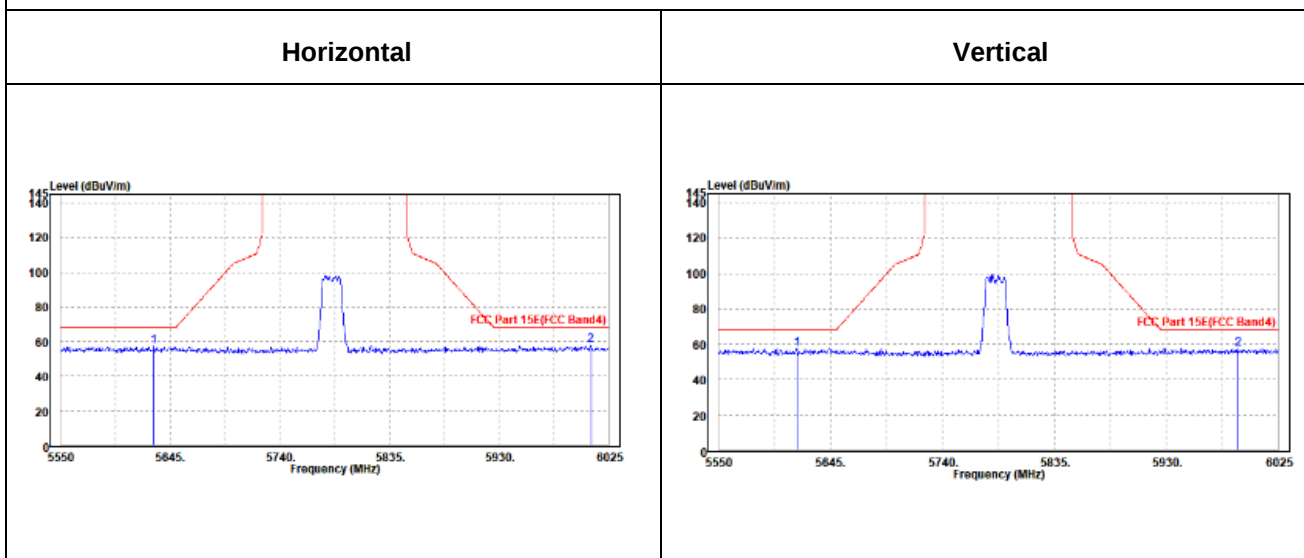


**Oobe Data**

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 |
| 5630.75                                             | 57.19                         | 57.6                    | 68.2              | -11.01         | 34.64                        | 11.61                 | 46.66                    | 100                       | 0                          | Peak   |
| 6009.325                                            | 57.78                         | 57.47                   | 68.2              | -10.42         | 35.31                        | 11.76                 | 46.76                    | 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 |
| 5616.5                                              | 57.56                         | 57.72                   | 68.2              | -10.64         | 34.89                        | 11.6                  | 46.65                    | 100                       | 360                        | Peak   |
| 5990.8                                              | 57.35                         | 56.87                   | 68.2              | -10.85         | 35.49                        | 11.75                 | 46.76                    | 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                                                | 99.3                          | 99.34                   | /                 | /              | 34.99                        | 11.68                 | 46.71                    | 100                       | 50                         | Peak    |
| 5825                                                | 91.2                          | 91.24                   | /                 | /              | 34.99                        | 11.68                 | 46.71                    | 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  |
| 5825                                                | 101.27                        | 101.08                  | /                 | /              | 35.22                        | 11.68                 | 46.71                    | 100                       | 0                          | Peak    |
| 5825                                                | 91.13                         | 90.94                   | /                 | /              | 35.22                        | 11.68                 | 46.71                    | 100                       | 0                          | Average |

**REMARKS:**

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

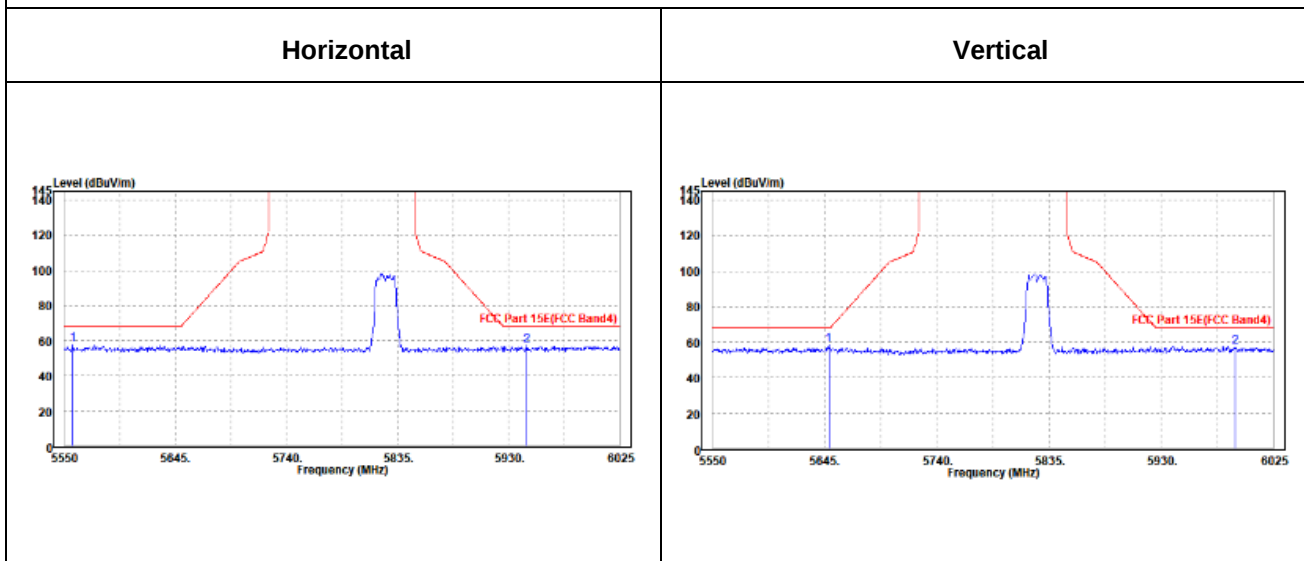


**Oobe Data**

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 |
| 5556.65                                             | 57.88                         | 58.44                   | 68.2              | -10.32         | 34.5                         | 11.58                 | 46.64                    | 100                       | 0                          | Peak   |
| 5945.675                                            | 57.14                         | 56.95                   | 68.2              | -11.06         | 35.2                         | 11.73                 | 46.74                    | 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 |
| 5648.325                                            | 58.17                         | 58.27                   | 68.2              | -10.03         | 34.94                        | 11.62                 | 46.66                    | 100                       | 360                        | Peak   |
| 5992.225                                            | 57.58                         | 57.1                    | 68.2              | -10.62         | 35.49                        | 11.75                 | 46.76                    | 100                       | 360                        | 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                                                | 97.54                         | 97.74                   | /                 | /              | 34.84                        | 11.65                 | 46.69                    | 100                       | 45                         | Peak    |
| 5745                                                | 89.54                         | 89.74                   | /                 | /              | 34.84                        | 11.65                 | 46.69                    | 100                       | 45                         | 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                                                | 96.14                         | 96.09                   | /                 | /              | 35.09                        | 11.65                 | 46.69                    | 100                       | 360                        | Peak    |
| 5745                                                | 88.42                         | 88.37                   | /                 | /              | 35.09                        | 11.65                 | 46.69                    | 100                       | 360                        | Average |

**REMARKS:**

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

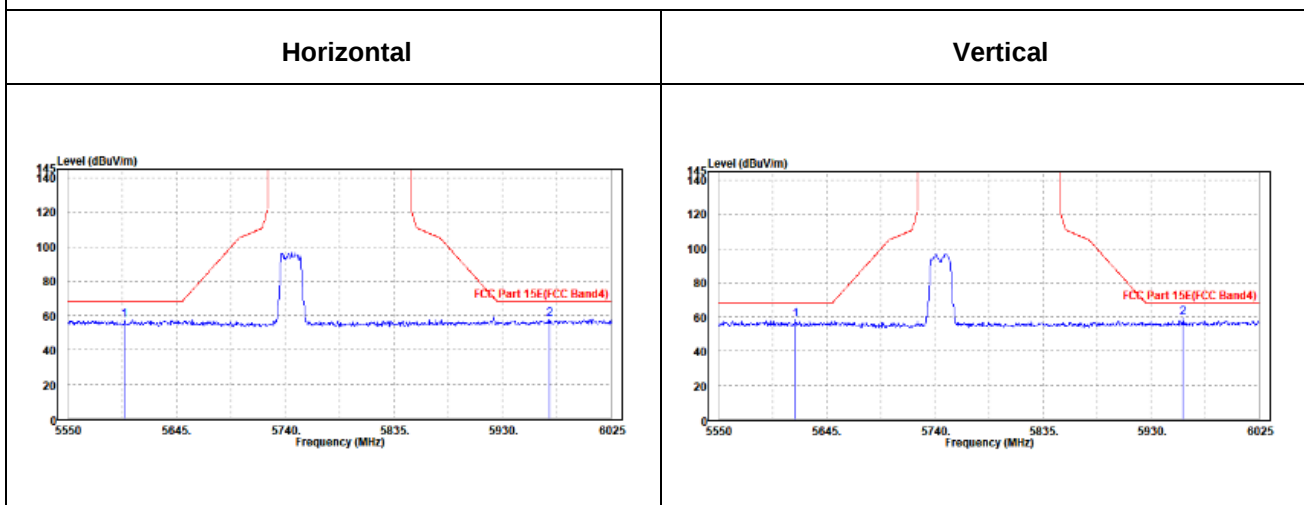


**Oobe Data**

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 |
| 5599.4                                              | 57.22                         | 57.69                   | 68.2              | -10.98         | 34.58                        | 11.6                  | 46.65                    | 100                       | 360                        | Peak   |
| 5970.85                                             | 57.95                         | 57.71                   | 68.2              | -10.25         | 35.25                        | 11.74                 | 46.75                    | 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                                             | 58.57                         | 58.73                   | 68.2              | -9.63          | 34.89                        | 11.6                  | 46.65                    | 100                       | 0                          | Peak   |
| 5958.025                                            | 59.42                         | 59.01                   | 68.2              | -8.78          | 35.43                        | 11.73                 | 46.75                    | 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                                                | 96.53                         | 96.65                   | /                 | /              | 34.91                        | 11.67                 | 46.7                     | 100                       | 45                         | Peak    |
| 5785                                                | 88.12                         | 88.24                   | /                 | /              | 34.91                        | 11.67                 | 46.7                     | 100                       | 45                         | 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                                                | 97.75                         | 97.62                   | /                 | /              | 35.16                        | 11.67                 | 46.7                     | 100                       | 0                          | Peak    |
| 5785                                                | 89.31                         | 89.18                   | /                 | /              | 35.16                        | 11.67                 | 46.7                     | 100                       | 0                          | Average |

**REMARKS:**

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

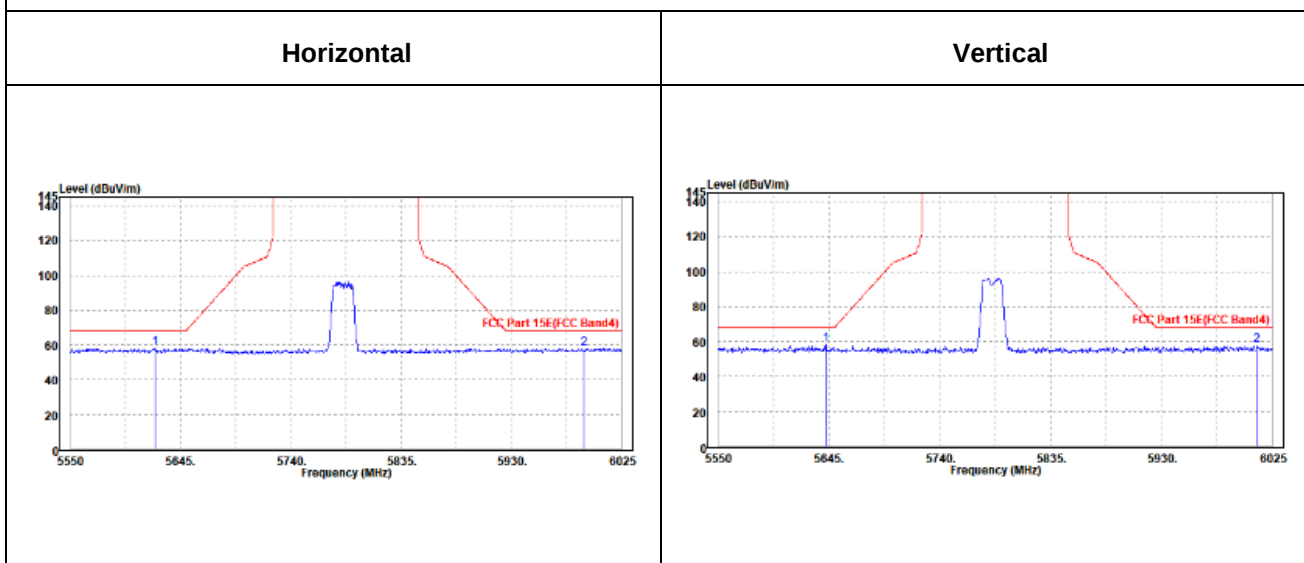


**Oobe Data**

**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 |
| 5623.15                                             | 58.48                         | 58.9                    | 68.2                  | -9.72          | 34.62                        | 11.61                 | 46.65                    | 100                       | 0                          | Peak   |
| 5992.7                                              | 58.08                         | 57.8                    | 68.2                  | -10.12         | 35.29                        | 11.75                 | 46.76                    | 100                       | 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 |
| 5642.15                                             | 58.37                         | 58.49                   | 68.2                  | -9.83          | 34.93                        | 11.61                 | 46.66                    | 100                       | 360                        | Peak   |
| 6011.7                                              | 57.88                         | 57.37                   | 68.2                  | -10.32         | 35.5                         | 11.77                 | 46.76                    | 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                                                | 98.45                         | 98.49                   | /                 | /              | 34.99                        | 11.68                 | 46.71                    | 100                       | 50                         | Peak    |
| 5825                                                | 92.31                         | 92.35                   | /                 | /              | 34.99                        | 11.68                 | 46.71                    | 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  |
| 5825                                                | 97.41                         | 97.22                   | /                 | /              | 35.22                        | 11.68                 | 46.71                    | 100                       | 0                          | Peak    |
| 5825                                                | 89.67                         | 89.48                   | /                 | /              | 35.22                        | 11.68                 | 46.71                    | 100                       | 0                          | Average |

**REMARKS:**

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

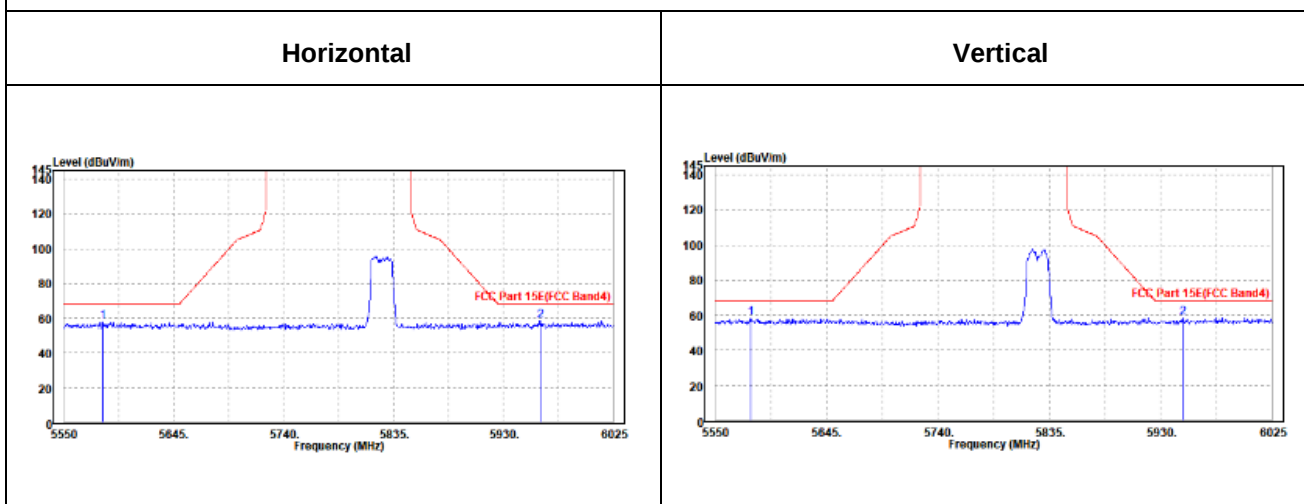


**Oobe Data**

**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 |
| 5583.25                                             | 58.16                         | 58.66                   | 68.2              | -10.04         | 34.55                        | 11.59                 | 46.64                    | 100                       | 360                        | Peak   |
| 5961.825                                            | 58.61                         | 58.39                   | 68.2              | -9.59          | 35.23                        | 11.74                 | 46.75                    | 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 |
| 5579.925                                            | 58.22                         | 58.44                   | 68.2              | -9.98          | 34.83                        | 11.59                 | 46.64                    | 100                       | 0                          | Peak   |
| 5948.525                                            | 58.5                          | 58.1                    | 68.2              | -9.7           | 35.42                        | 11.73                 | 46.75                    | 100                       | 0                          | 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                                                | 93.38                         | 93.55                   | /                 | /              | 34.86                        | 11.66                 | 46.69                    | 100                       | 35                         | Peak    |
| 5755                                                | 87.65                         | 87.82                   | /                 | /              | 34.86                        | 11.66                 | 46.69                    | 100                       | 35                         | 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                                                | 92.37                         | 92.29                   | /                 | /              | 35.11                        | 11.66                 | 46.69                    | 100                       | 110                        | Peak    |
| 5755                                                | 87.17                         | 87.09                   | /                 | /              | 35.11                        | 11.66                 | 46.69                    | 100                       | 110                        | Average |

**REMARKS:**

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

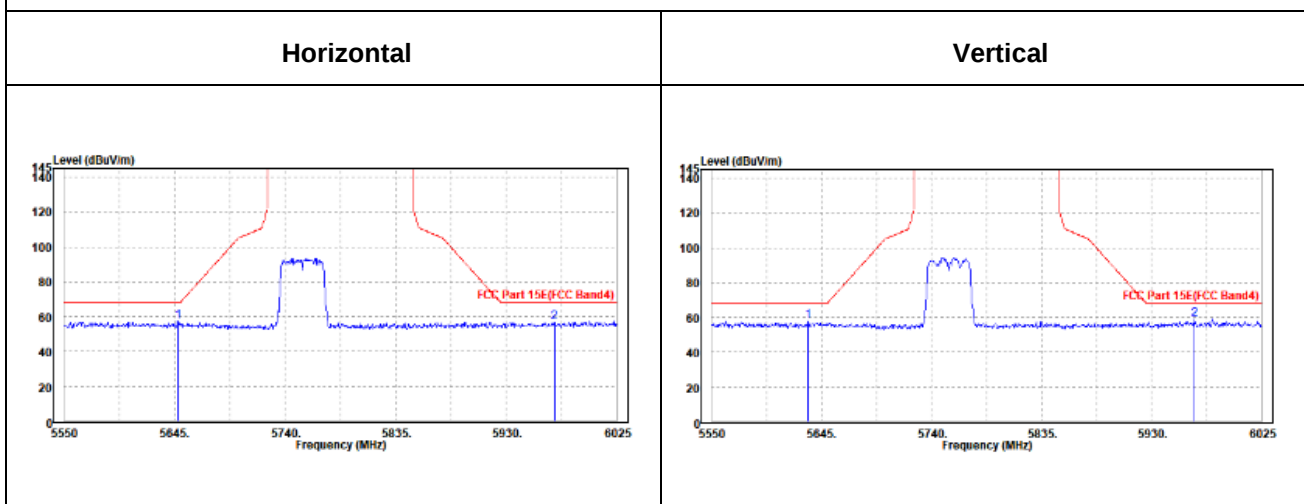


**Oobe Data**

**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 |
| 5647.85                                             | 57.6                          | 57.97                   | 68.2              | -10.6          | 34.67                        | 11.62                 | 46.66                    | 100                       | 0                          | Peak   |
| 5971.325                                            | 57.02                         | 56.78                   | 68.2              | -11.18         | 35.25                        | 11.74                 | 46.75                    | 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 |
| 5632.65                                             | 58.14                         | 58.28                   | 68.2              | -10.06         | 34.91                        | 11.61                 | 46.66                    | 100                       | 360                        | Peak   |
| 5967.05                                             | 58.97                         | 58.53                   | 68.2              | -9.23          | 35.45                        | 11.74                 | 46.75                    | 100                       | 360                        | 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                                                | 93.05                         | 93.15                   | /                 | /              | 34.93                        | 11.67                 | 46.7                     | 100                       | 35                         | Peak    |
| 5795                                                | 88.03                         | 88.13                   | /                 | /              | 34.93                        | 11.67                 | 46.7                     | 100                       | 35                         | 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                                                | 93.68                         | 93.54                   | /                 | /              | 35.17                        | 11.67                 | 46.7                     | 100                       | 110                        | Peak    |
| 5795                                                | 88.5                          | 88.36                   | /                 | /              | 35.17                        | 11.67                 | 46.7                     | 100                       | 110                        | Average |

**REMARKS:**

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



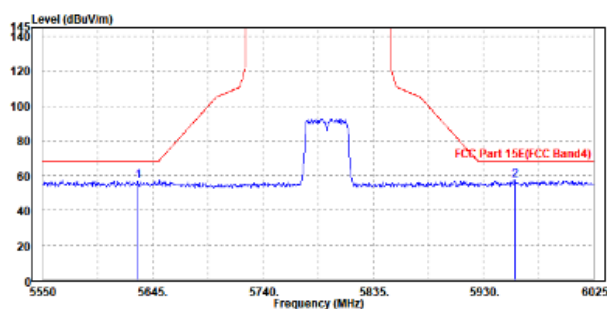
# OOBE DATA

802.11n (40MHZ)

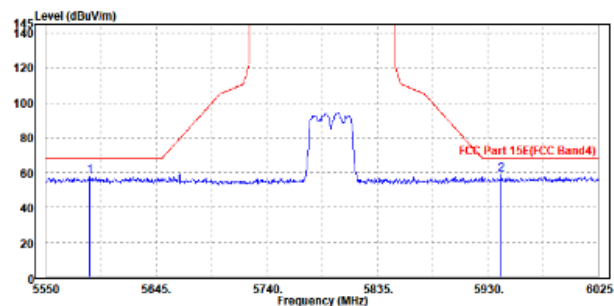
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| 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 |
| 5632.175                                            | 57.04                         | 57.45                   | 68.2              | -11.16         | 34.64                        | 11.61                 | 46.66                    | 100                       | 360                        | Peak   |
| 5956.6                                              | 57.58                         | 57.38                   | 68.2              | -10.62         | 35.22                        | 11.73                 | 46.75                    | 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 |
| 5588                                                | 57.64                         | 57.85                   | 68.2              | -10.56         | 34.84                        | 11.59                 | 46.64                    | 100                       | 0                          | Peak   |
| 5941.4                                              | 58.91                         | 58.51                   | 68.2              | -9.29          | 35.41                        | 11.73                 | 46.74                    | 100                       | 0                          | Peak   |

## CH 159

Horizontal



Vertical





**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                                                | 86.63                         | 86.77                   | /                 | /              | 34.9                         | 11.66                 | 46.7                     | 100                       | 35                         | Peak    |
| 5775                                                | 82.12                         | 82.26                   | /                 | /              | 34.9                         | 11.66                 | 46.7                     | 100                       | 35                         | 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                                                | 86.35                         | 86.25                   | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 110                        | Peak    |
| 5775                                                | 81.5                          | 81.4                    | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 110                        | Average |

**REMARKS:**

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

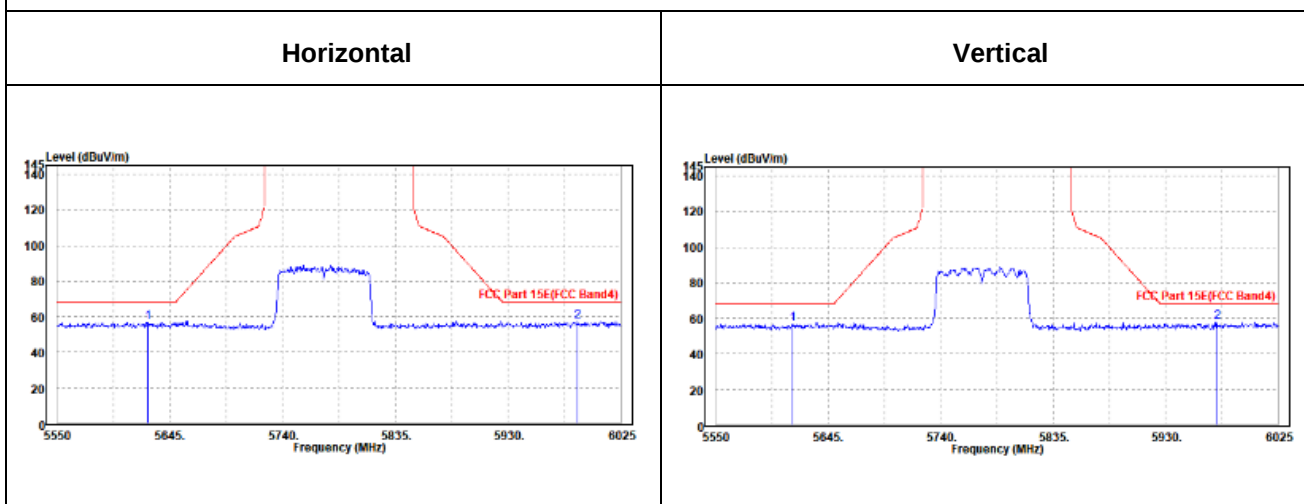


**Oobe Data**

**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 |
| 5626.475                                            | 56.98                         | 57.4                    | 68.2              | -11.22         | 34.63                        | 11.61                 | 46.66                    | 100                       | 0                          | Peak   |
| 5988.425                                            | 57.24                         | 56.97                   | 68.2              | -10.96         | 35.28                        | 11.75                 | 46.76                    | 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 |
| 5614.6                                              | 57.02                         | 57.19                   | 68.2              | -11.18         | 34.88                        | 11.6                  | 46.65                    | 100                       | 360                        | Peak   |
| 5973.225                                            | 57.82                         | 57.37                   | 68.2              | -10.38         | 35.46                        | 11.74                 | 46.75                    | 100                       | 360                        | Peak   |

**CH 155**





**802.11ax (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                                                | 98.05                         | 98.25                   | /                 | /              | 34.84                        | 11.65                 | 46.69                    | 100                       | 50                         | Peak    |
| 5745                                                | 90.39                         | 90.59                   | /                 | /              | 34.84                        | 11.65                 | 46.69                    | 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  |
| 5745                                                | 98.52                         | 98.47                   | /                 | /              | 35.09                        | 11.65                 | 46.69                    | 100                       | 0                          | Peak    |
| 5745                                                | 91.43                         | 91.38                   | /                 | /              | 35.09                        | 11.65                 | 46.69                    | 100                       | 0                          | Average |

**REMARKS:**

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

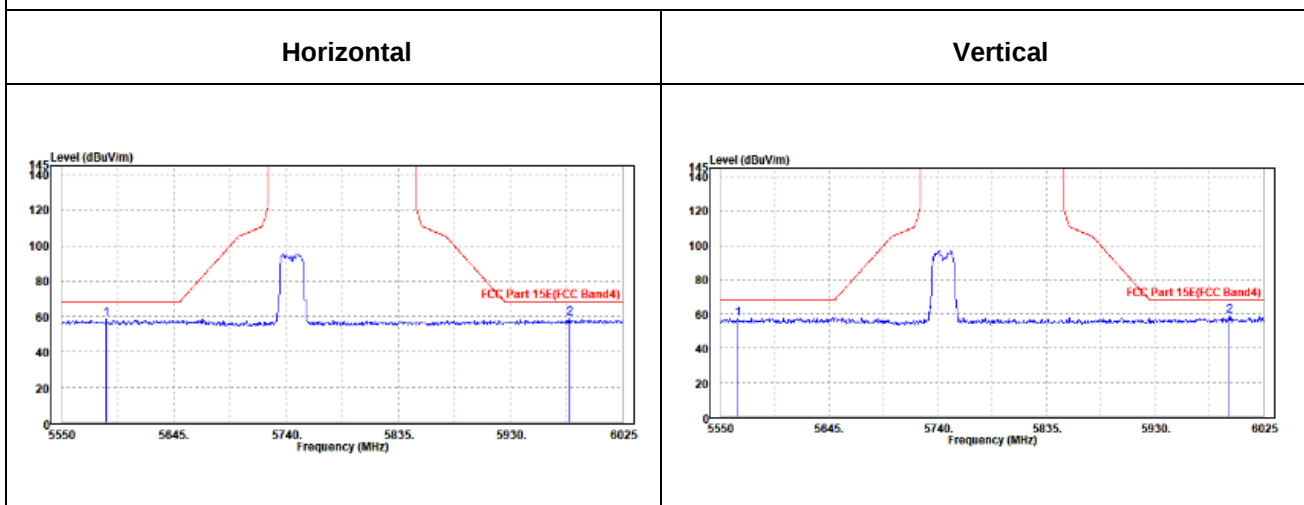


**Oobe Data**

**802.11ax (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 |
| 5588                                                | 58.46                         | 58.95                   | 68.2              | -9.74          | 34.56                        | 11.59                 | 46.64                    | 100                       | 360                        | Peak   |
| 5979.875                                            | 59.2                          | 58.95                   | 68.2              | -9             | 35.26                        | 11.74                 | 46.75                    | 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 |
| 5565.675                                            | 57.49                         | 57.74                   | 68.2              | -10.71         | 34.81                        | 11.58                 | 46.64                    | 100                       | 0                          | Peak   |
| 5995.075                                            | 58.81                         | 58.33                   | 68.2              | -9.39          | 35.49                        | 11.75                 | 46.76                    | 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                                                | 97.37                         | 97.49                   | /                 | /              | 34.91                        | 11.67                 | 46.7                     | 1100                      | 35                         | Peak    |
| 5785                                                | 89.14                         | 89.26                   | /                 | /              | 34.91                        | 11.67                 | 46.7                     | 1100                      | 35                         | 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                                                | 99.29                         | 99.16                   | /                 | /              | 35.16                        | 11.67                 | 46.7                     | 100                       | 0                          | Peak    |
| 5785                                                | 90.64                         | 90.51                   | /                 | /              | 35.16                        | 11.67                 | 46.7                     | 100                       | 0                          | Average |

**REMARKS:**

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

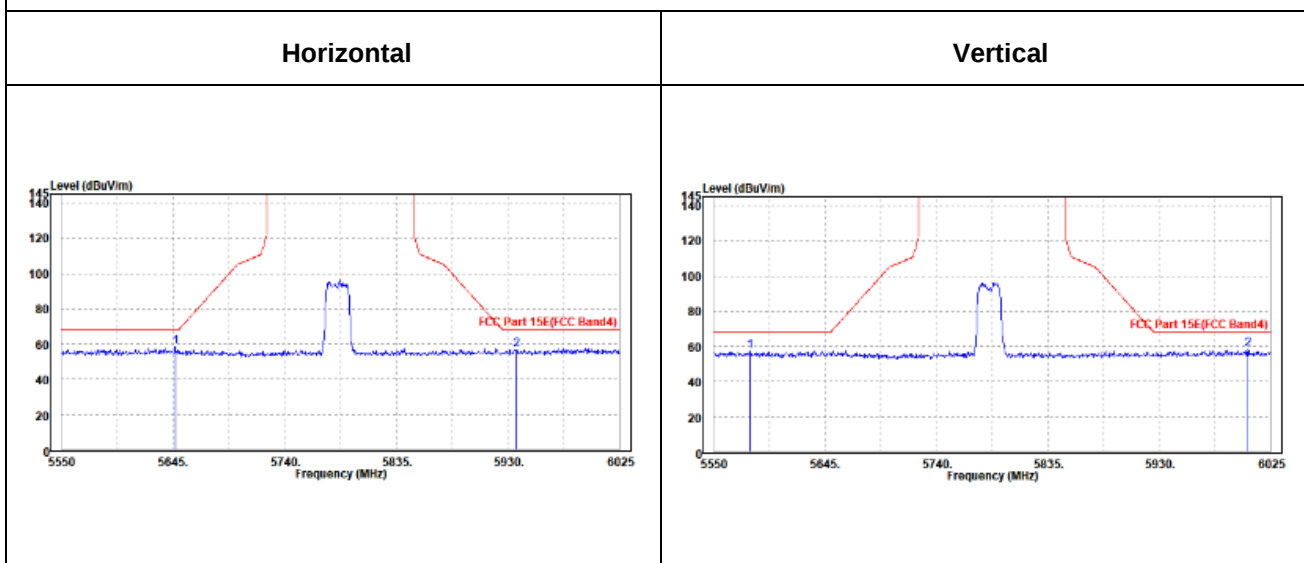


**Oobe Data**

**802.11ax (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 |
| 5646.9                                              | 58.59                         | 58.97                   | 68.2                  | -9.61          | 34.66                        | 11.62                 | 46.66                    | 100                       | 0                          | Peak   |
| 5937.125                                            | 57.06                         | 56.88                   | 68.2                  | -11.14         | 35.19                        | 11.73                 | 46.74                    | 100                       | 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 |
| 5581.35                                             | 57.27                         | 57.49                   | 68.2                  | -10.93         | 34.83                        | 11.59                 | 46.64                    | 100                       | 360                        | Peak   |
| 6005.525                                            | 58.46                         | 57.96                   | 68.2                  | -9.74          | 35.5                         | 11.76                 | 46.76                    | 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  |
| 5775                                                | 98.18                         | 98.32                   | /                 | /              | 34.9                         | 11.66                 | 46.7                     | 100                       | 50                         | Peak    |
| 5775                                                | 90.7                          | 90.84                   | /                 | /              | 34.9                         | 11.66                 | 46.7                     | 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  |
| 5825                                                | 98.32                         | 98.13                   | /                 | /              | 35.22                        | 11.68                 | 46.71                    | 100                       | 0                          | Peak    |
| 5825                                                | 90.27                         | 90.08                   | /                 | /              | 35.22                        | 11.68                 | 46.71                    | 100                       | 0                          | Average |

**REMARKS:**

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

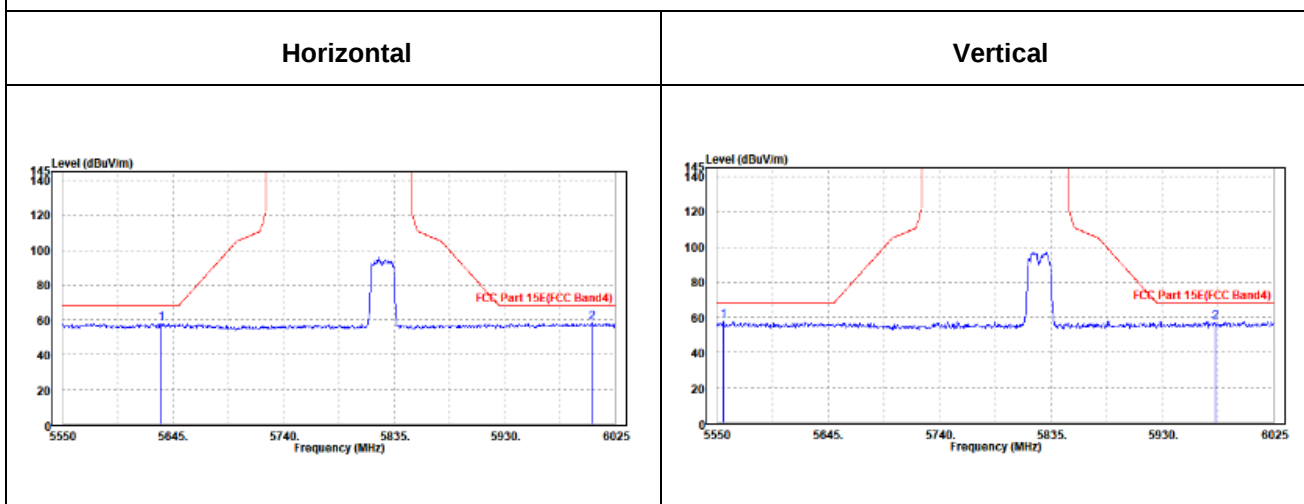


**OBE DATA**

**802.11ax (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 |
| 5635.025                                            | 58.06                         | 58.47                   | 68.2              | -10.14         | 34.64                        | 11.61                 | 46.66                    | 100                       | 360                        | Peak   |
| 6005.05                                             | 58.29                         | 57.99                   | 68.2              | -9.91          | 35.3                         | 11.76                 | 46.76                    | 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 |
| 5555.225                                            | 57.73                         | 58                      | 68.2              | -10.47         | 34.79                        | 11.58                 | 46.64                    | 100                       | 0                          | Peak   |
| 5975.125                                            | 57.55                         | 57.1                    | 68.2              | -10.65         | 35.46                        | 11.74                 | 46.75                    | 100                       | 0                          | Peak   |

**CH 165**





**802.11ax (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  |
| 5775                                                | 95.47                         | 95.61                   | /                 | /              | 34.9                         | 11.66                 | 46.7                     | 100                       | 50                         | Peak    |
| 5775                                                | 87.78                         | 87.92                   | /                 | /              | 34.9                         | 11.66                 | 46.7                     | 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  |
| 5775                                                | 94.51                         | 94.41                   | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 110                        | Peak    |
| 5775                                                | 86.41                         | 86.31                   | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 110                        | Average |

**REMARKS:**

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

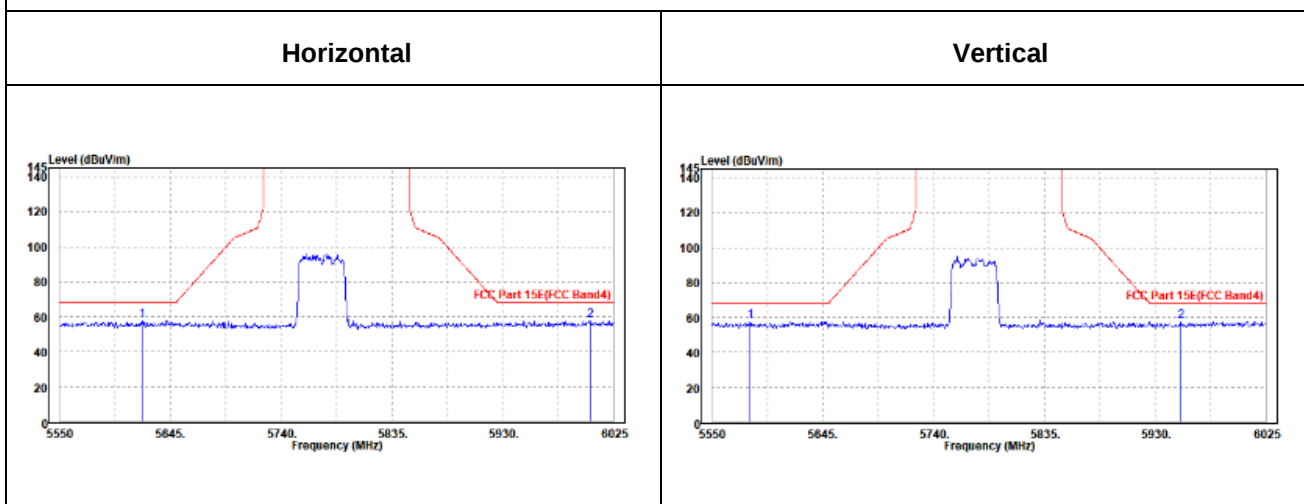


# OOBE DATA

## 802.11ax (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 |
| 5620.3                                              | 57.76                         | 58.18                   | 68.2              | -10.44         | 34.62                        | 11.61                 | 46.65                    | 100                       | 0                          | Peak   |
| 6004.575                                            | 57.85                         | 57.55                   | 68.2              | -10.35         | 35.3                         | 11.76                 | 46.76                    | 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 |
| 5582.775                                            | 57.71                         | 57.93                   | 68.2              | -10.49         | 34.83                        | 11.59                 | 46.64                    | 100                       | 360                        | Peak   |
| 5951.85                                             | 57.98                         | 57.58                   | 68.2              | -10.22         | 35.42                        | 11.73                 | 46.75                    | 100                       | 360                        | 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                                                | 96.67                         | 96.77                   | /                 | /              | 34.93                        | 11.67                 | 46.7                     | 100                       | 50                         | Peak    |
| 5795                                                | 89.26                         | 89.36                   | /                 | /              | 34.93                        | 11.67                 | 46.7                     | 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  |
| 5795                                                | 94.06                         | 94.16                   | /                 | /              | 34.93                        | 11.67                 | 46.7                     | 100                       | 110                        | Peak    |
| 5795                                                | 86.48                         | 86.58                   | /                 | /              | 34.93                        | 11.67                 | 46.7                     | 100                       | 110                        | Average |

**REMARKS:**

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

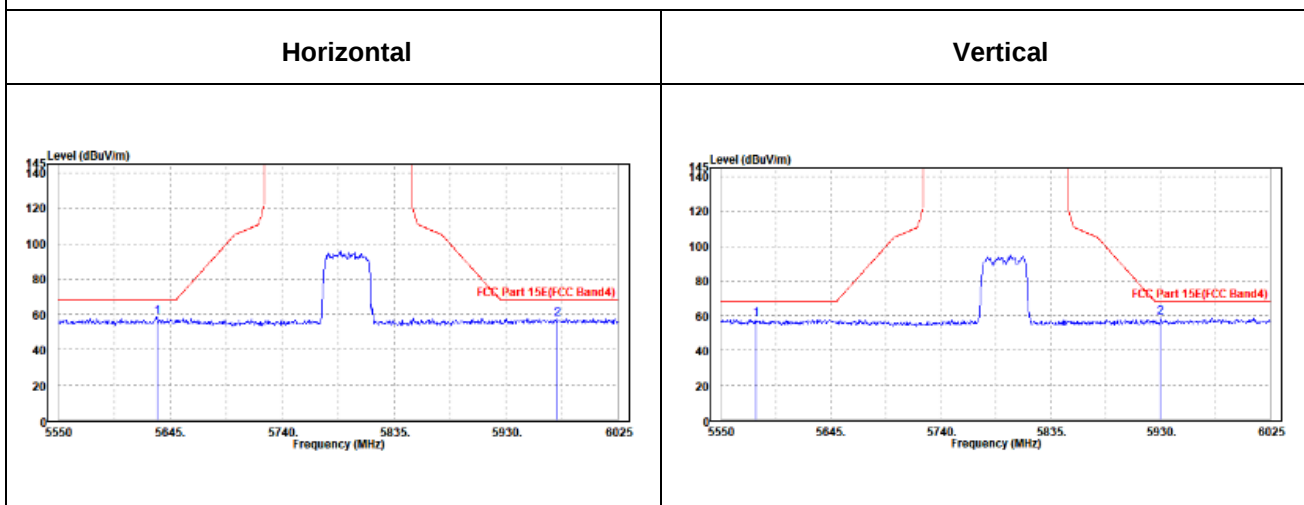


**Oobe Data**

**802.11ax (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 |
| 5633.6                                              | 58.57                         | 58.98                   | 68.2              | -9.63          | 34.64                        | 11.61                 | 46.66                    | 100                       | 0                          | Peak   |
| 5973.7                                              | 57.57                         | 57.33                   | 68.2              | -10.63         | 35.25                        | 11.74                 | 46.75                    | 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 |
| 5579.925                                            | 58.11                         | 58.33                   | 68.2              | -10.09         | 34.83                        | 11.59                 | 46.64                    | 100                       | 360                        | Peak   |
| 5930                                                | 59.15                         | 58.78                   | 68.2              | -9.05          | 35.39                        | 11.72                 | 46.74                    | 100                       | 360                        | Peak   |

**CH 159**





**802.11ax (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                                                | 90.51                         | 90.65                   | /                 | /              | 34.9                         | 11.66                 | 46.7                     | 100                       | 40                         | Peak    |
| 5775                                                | 85.14                         | 85.28                   | /                 | /              | 34.9                         | 11.66                 | 46.7                     | 100                       | 40                         | 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                                                | 88.52                         | 88.42                   | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 110                        | Peak    |
| 5775                                                | 83.73                         | 83.63                   | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 110                        | Average |

**REMARKS:**

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

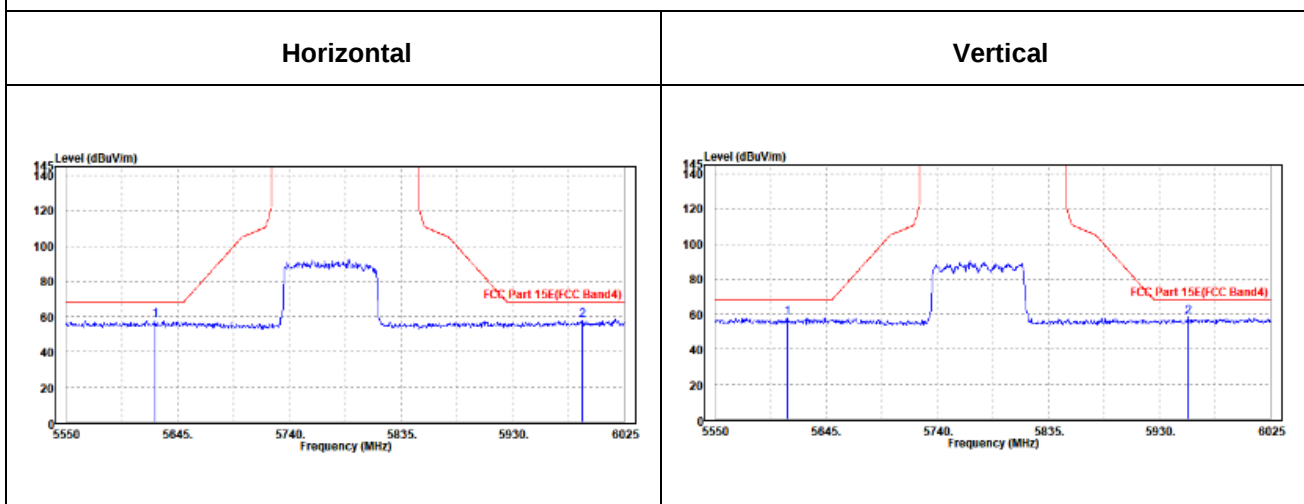


# OOBE DATA

## 802.11ax (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 |
| 5625.525                                            | 57.72                         | 58.14                   | 68.2              | -10.48         | 34.63                        | 11.61                 | 46.66                    | 100                       | 360                        | Peak   |
| 5989.375                                            | 57.7                          | 57.43                   | 68.2              | -10.5          | 35.28                        | 11.75                 | 46.76                    | 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 |
| 5611.275                                            | 57.71                         | 57.88                   | 68.2              | -10.49         | 34.88                        | 11.6                  | 46.65                    | 100                       | 0                          | Peak   |
| 5954.7                                              | 58.2                          | 57.79                   | 68.2              | -10            | 35.43                        | 11.73                 | 46.75                    | 100                       | 0                          | Peak   |

## CH 155





**5G WIFI-RU**

**802.11ax (20MHz) (RU242):**

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <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                                                | 101.01                        | 101.21                  | /                 | /              | 34.84                        | 11.65                 | 46.69                    | 100                       | 60                         | Peak    |
| 5745                                                | 90.11                         | 90.31                   | /                 | /              | 34.84                        | 11.65                 | 46.69                    | 100                       | 60                         | 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                                                | 97.55                         | 97.5                    | /                 | /              | 35.09                        | 11.65                 | 46.69                    | 100                       | 360                        | Peak    |
| 5745                                                | 87.6                          | 87.55                   | /                 | /              | 35.09                        | 11.65                 | 46.69                    | 100                       | 360                        | Average |

**REMARKS:**

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

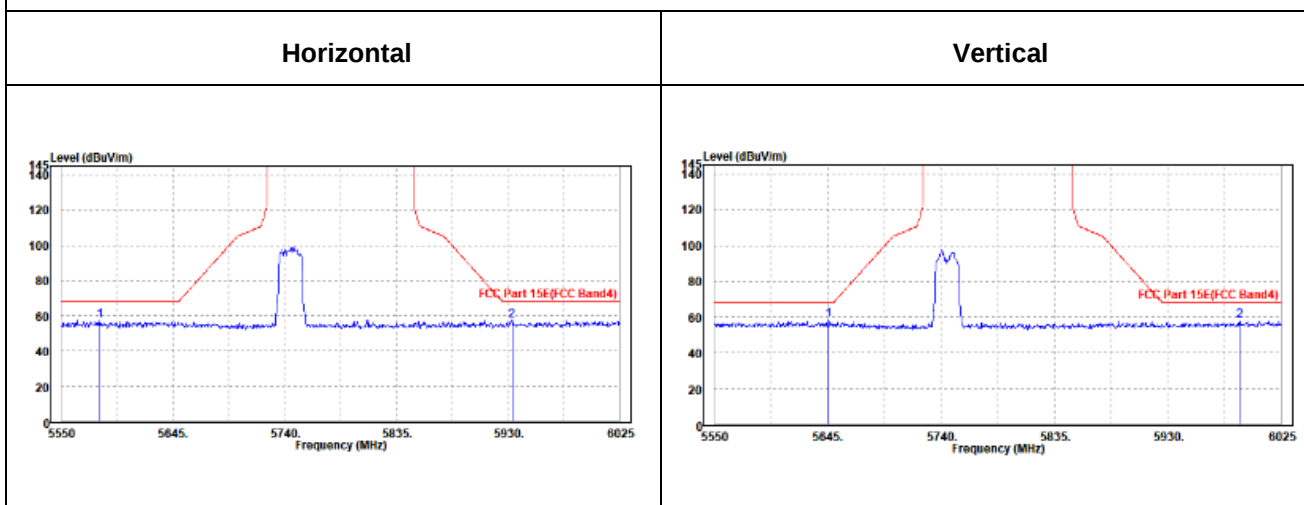


**Oobe Data**

802.11ax (20MHz) (RU242):

| 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 |
| 5582.3                                              | 57.43                         | 57.93                   | 68.2              | -10.77         | 34.55                        | 11.59                 | 46.64                    | 100                       | 360                        | Peak   |
| 5933.325                                            | 57.29                         | 57.13                   | 68.2              | -10.91         | 35.18                        | 11.72                 | 46.74                    | 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 |
| 5645.475                                            | 58.18                         | 58.29                   | 68.2              | -10.02         | 34.93                        | 11.62                 | 46.66                    | 100                       | 0                          | Peak   |
| 5989.85                                             | 57.78                         | 57.31                   | 68.2              | -10.42         | 35.48                        | 11.75                 | 46.76                    | 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                                                | 100.2                         | 100.32                  | /                 | /              | 34.91                        | 11.67                 | 46.7                     | 100                       | 60                         | Peak    |
| 5785                                                | 91.18                         | 91.3                    | /                 | /              | 34.91                        | 11.67                 | 46.7                     | 100                       | 60                         | 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                                                | 98.18                         | 98.05                   | /                 | /              | 35.16                        | 11.67                 | 46.7                     | 100                       | 0                          | Peak    |
| 5785                                                | 90.42                         | 90.29                   | /                 | /              | 35.16                        | 11.67                 | 46.7                     | 100                       | 0                          | Average |

**REMARKS:**

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



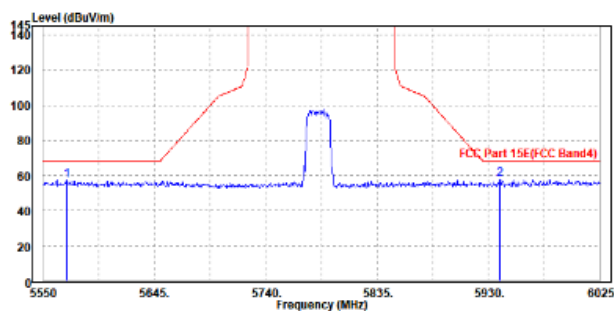
# OOBE DATA

802.11ax (20MHz) (RU242):

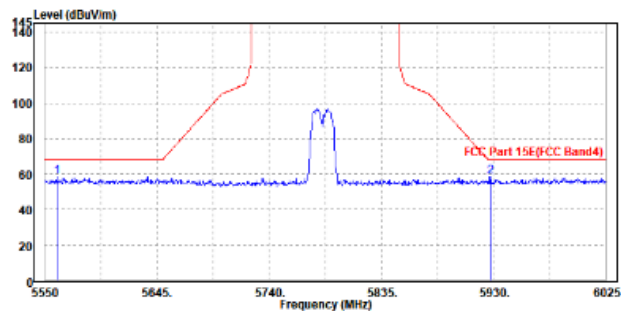
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                       |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-----------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| 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 |
| 5569.95                                             | 57.19                         | 57.71                   | 68.2                  | -11.01         | 34.53                        | 11.59                 | 46.64                    | 100                       | 0                          | Peak   |
| 5939.5                                              | 57.64                         | 57.46                   | 68.2                  | -10.56         | 35.19                        | 11.73                 | 46.74                    | 100                       | 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 |
| 5559.975                                            | 58.39                         | 58.65                   | 68.2                  | -9.81          | 34.8                         | 11.58                 | 46.64                    | 100                       | 0                          | Peak   |
| 5927.15                                             | 58.72                         | 58.36                   | 68.2                  | -9.48          | 35.38                        | 11.72                 | 46.74                    | 100                       | 0                          | Peak   |

## CH 157

### Horizontal



### Vertical





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <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                                                | 101.25                        | 101.29                  | /                 | /              | 34.99                        | 11.68                 | 46.71                    | 100                       | 60                         | Peak    |
| 5825                                                | 90.48                         | 90.52                   | /                 | /              | 34.99                        | 11.68                 | 46.71                    | 100                       | 60                         | 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                                                | 98.02                         | 97.83                   | /                 | /              | 35.22                        | 11.68                 | 46.71                    | 100                       | 0                          | Peak    |
| 5825                                                | 88.82                         | 88.63                   | /                 | /              | 35.22                        | 11.68                 | 46.71                    | 100                       | 0                          | Average |

**REMARKS:**

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



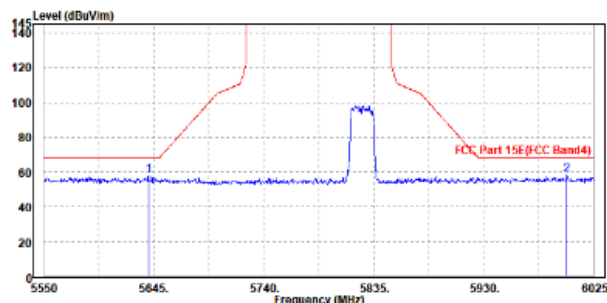
# OOBE DATA

802.11ax (20MHz) (RU242):

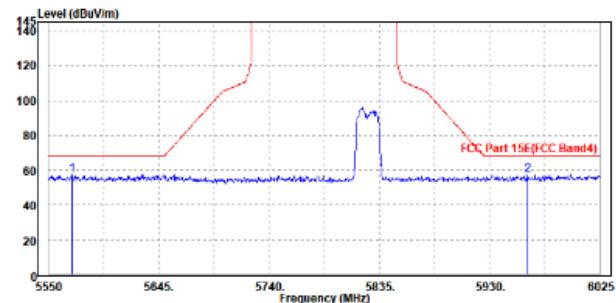
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| 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 |
| 5640.25                                             | 57.8                          | 58.2                    | 68.2              | -10.4          | 34.65                        | 11.61                 | 46.66                    | 100                       | 0                          | Peak   |
| 6001.725                                            | 58.3                          | 58.01                   | 68.2              | -9.9           | 35.3                         | 11.75                 | 46.76                    | 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 |
| 5570.425                                            | 57.49                         | 57.73                   | 68.2              | -10.71         | 34.81                        | 11.59                 | 46.64                    | 100                       | 360                        | Peak   |
| 5962.775                                            | 57.52                         | 57.09                   | 68.2              | -10.68         | 35.44                        | 11.74                 | 46.75                    | 100                       | 360                        | Peak   |

## CH 165

### Horizontal



### Vertical





**802.11ax (40MHz) (RU484):**

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <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                                                | 93.9                          | 94.07                   | /                 | /              | 34.86                        | 11.66                 | 46.69                    | 100                       | 60                         | Peak    |
| 5755                                                | 86.78                         | 86.95                   | /                 | /              | 34.86                        | 11.66                 | 46.69                    | 100                       | 60                         | 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                                                | 91.39                         | 91.31                   | /                 | /              | 35.11                        | 11.66                 | 46.69                    | 100                       | 360                        | Peak    |
| 5755                                                | 83.49                         | 83.41                   | /                 | /              | 35.11                        | 11.66                 | 46.69                    | 100                       | 360                        | Average |

**REMARKS:**

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



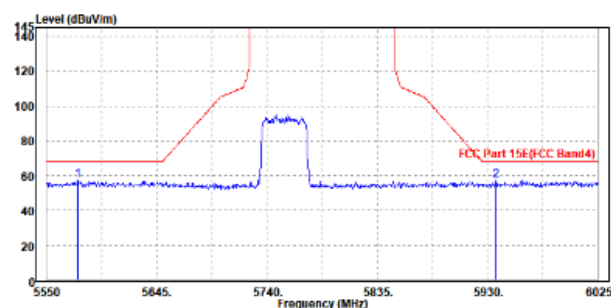
# OOBE DATA

802.11ax (40MHz) (RU484):

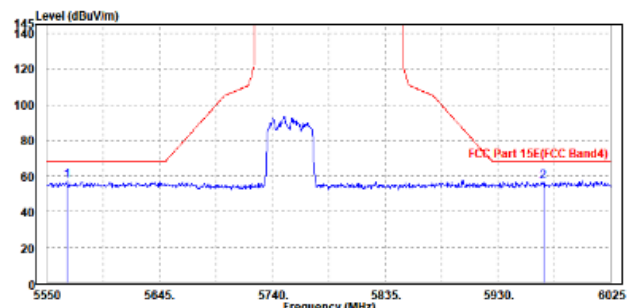
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| 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 |
| 5576.6                                              | 57.25                         | 57.76                   | 68.2              | -10.95         | 34.54                        | 11.59                 | 46.64                    | 100                       | 360                        | Peak   |
| 5936.65                                             | 57.41                         | 57.23                   | 68.2              | -10.79         | 35.19                        | 11.73                 | 46.74                    | 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 |
| 5566.625                                            | 57.29                         | 57.53                   | 68.2              | -10.91         | 34.81                        | 11.59                 | 46.64                    | 100                       | 0                          | Peak   |
| 5968                                                | 57.02                         | 56.58                   | 68.2              | -11.18         | 35.45                        | 11.74                 | 46.75                    | 100                       | 0                          | Peak   |

## CH 151

Horizontal



Vertical





|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <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                                                | 94.69                         | 94.79                   | /                 | /              | 34.93                        | 11.67                 | 46.7                     | 100                       | 60                         | Peak    |
| 5795                                                | 87.03                         | 87.13                   | /                 | /              | 34.93                        | 11.67                 | 46.7                     | 100                       | 60                         | 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                                                | 92.52                         | 92.38                   | /                 | /              | 35.17                        | 11.67                 | 46.7                     | 100                       | 0                          | Peak    |
| 5795                                                | 84.26                         | 84.12                   | /                 | /              | 35.17                        | 11.67                 | 46.7                     | 100                       | 0                          | Average |

**REMARKS:**

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



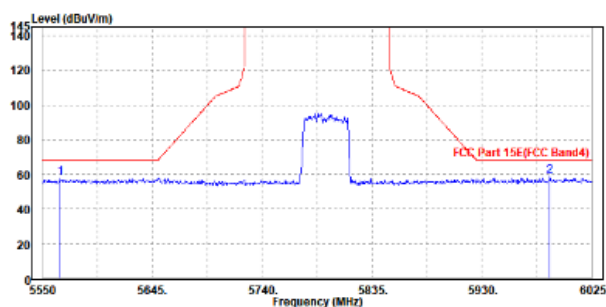
# OOBE DATA

802.11ax (40MHz) (RU484):

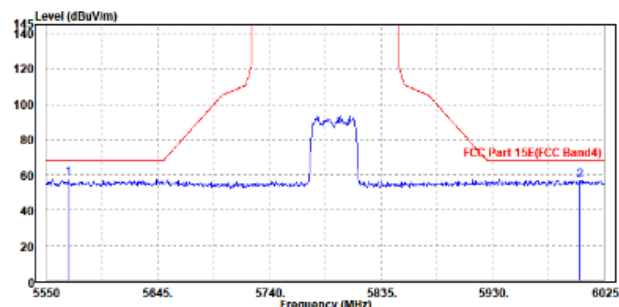
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| 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 |
| 5565.675                                            | 57.99                         | 58.53                   | 68.2              | -10.21         | 34.52                        | 11.58                 | 46.64                    | 100                       | 360                        | Peak   |
| 5988.425                                            | 58.75                         | 58.48                   | 68.2              | -9.45          | 35.28                        | 11.75                 | 46.76                    | 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 |
| 5569                                                | 57.98                         | 58.22                   | 68.2              | -10.22         | 34.81                        | 11.59                 | 46.64                    | 100                       | 0                          | Peak   |
| 6003.625                                            | 57                            | 56.5                    | 68.2              | -11.2          | 35.5                         | 11.76                 | 46.76                    | 100                       | 0                          | Peak   |

## CH 159

Horizontal



Vertical





**802.11ax (80MHz) (RU996):**

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <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                                                | 92.47                         | 92.37                   | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 60                         | Peak    |
| 5775                                                | 83.76                         | 83.66                   | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 60                         | 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                                                | 90.34                         | 90.24                   | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 0                          | Peak    |
| 5775                                                | 81.65                         | 81.55                   | /                 | /              | 35.14                        | 11.66                 | 46.7                     | 100                       | 0                          | Average |

**REMARKS:**

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



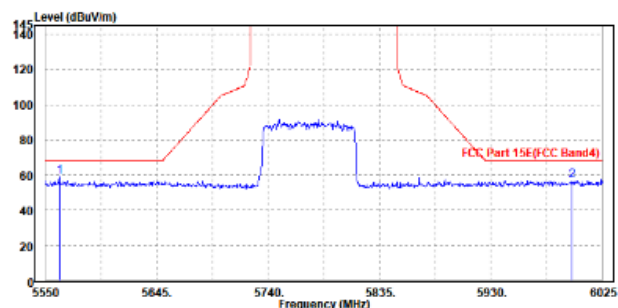
# OOBE DATA

802.11ax (80MHz) (RU996):

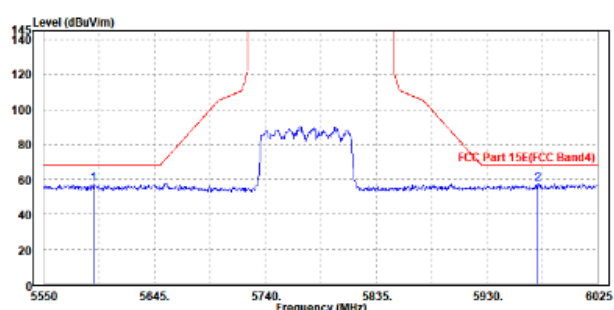
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                               |                         |                   |                |                              |                       |                          |                           |                            |        |
|-----------------------------------------------------|-------------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| 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 |
| 5561.875                                            | 59.01                         | 59.56                   | 68.2              | -9.19          | 34.51                        | 11.58                 | 46.64                    | 100                       | 0                          | Peak   |
| 5999.35                                             | 56.73                         | 56.44                   | 68.2              | -11.47         | 35.3                         | 11.75                 | 46.76                    | 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 |
| 5592.275                                            | 57.15                         | 57.35                   | 68.2              | -11.05         | 34.85                        | 11.6                  | 46.65                    | 100                       | 360                        | Peak   |
| 5973.7                                              | 57.46                         | 57.01                   | 68.2              | -10.74         | 35.46                        | 11.74                 | 46.75                    | 100                       | 360                        | Peak   |

## CH 155

Horizontal



Vertical





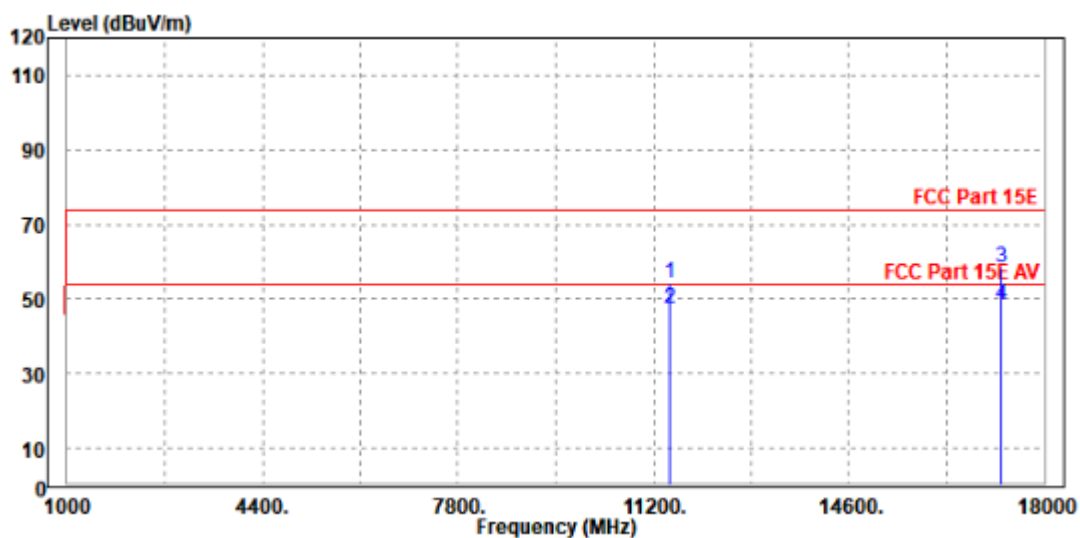
802.11n (20MHz):

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

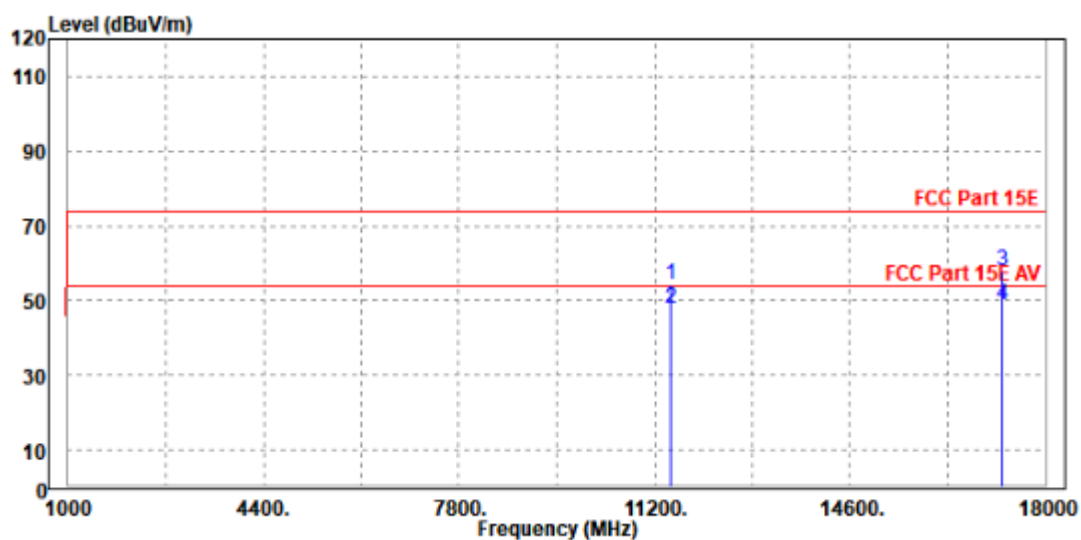
|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark  | Pol/Phase  |
|---|-------------|--------|------------|------------|------------|--------|---------|------------|
|   | MHz         | dBuV/m | dBuV       | dBuV/m     | dB         | dB/m   |         |            |
| 1 | 11489.000   | 54.46  | 44.33      | 74.00      | -19.54     | 10.13  | Peak    | Horizontal |
| 2 | 11489.000   | 47.56  | 37.43      | 54.00      | -6.44      | 10.13  | Average | Horizontal |
| 3 | PK17235.000 | 58.28  | 41.55      | 74.00      | -15.72     | 16.73  | Peak    | Horizontal |
| 4 | PP17235.000 | 48.58  | 31.85      | 54.00      | -5.42      | 16.73  | 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 | 11490.000   | 54.37  | 44.14         | 74.00         | -19.63        | 10.23  | Peak    | Vertical  |
| 2 | 11490.000   | 47.72  | 37.49         | 54.00         | -6.28         | 10.23  | Average | Vertical  |
| 3 | PK17235.000 | 57.96  | 40.96         | 74.00         | -16.04        | 17.00  | Peak    | Vertical  |
| 4 | PP17235.000 | 48.86  | 31.86         | 54.00         | -5.14         | 17.00  | Average | Vertical  |



**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5745MHz: 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. 14,24 | Feb. 13,25 |
| EMC32 test software | Rohde&Schwarz | EMC32     | NA         | NA         | NA         |
| LISN network        | Rohde&Schwarz | ENV216    | 101922     | Mar. 10,24 | Mar. 09,25 |

**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.

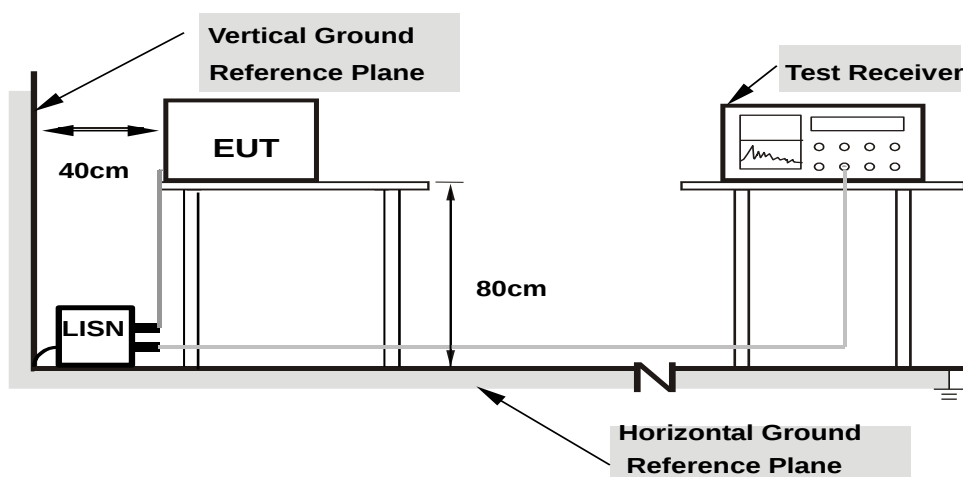
**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.



### 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 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

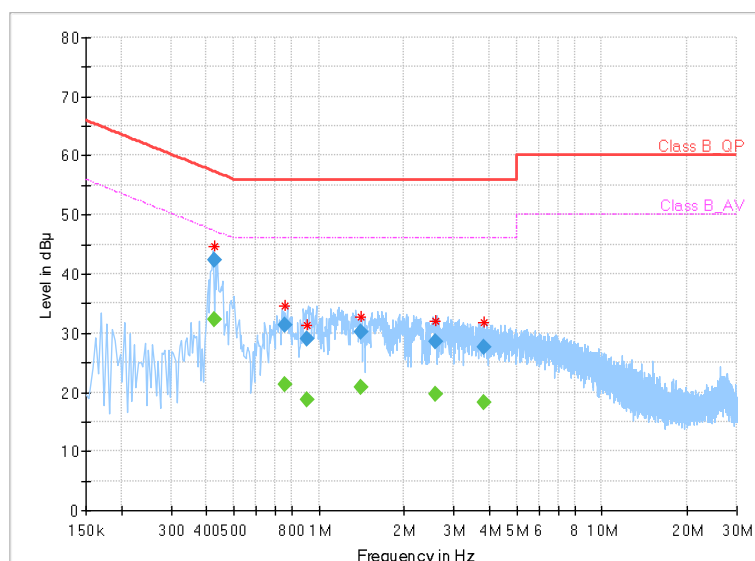
## CONDUCTED WORST-CASE DATA:

|                 |                |                                          |                                       |
|-----------------|----------------|------------------------------------------|---------------------------------------|
| 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) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.428000        | ---              | 32.23           | 47.29        | 15.06       | L1   | ON     | 9.8        |
| 0.428000        | 42.25            | ---             | 57.29        | 15.04       | L1   | ON     | 9.8        |
| 0.756000        | ---              | 21.33           | 46.00        | 24.67       | L1   | ON     | 9.8        |
| 0.756000        | 31.38            | ---             | 56.00        | 24.62       | L1   | ON     | 9.8        |
| 0.904000        | ---              | 18.65           | 46.00        | 27.35       | L1   | ON     | 9.8        |
| 0.904000        | 28.91            | ---             | 56.00        | 27.09       | L1   | ON     | 9.8        |
| 1.404000        | ---              | 20.74           | 46.00        | 25.26       | L1   | ON     | 9.8        |
| 1.404000        | 30.29            | ---             | 56.00        | 25.71       | L1   | ON     | 9.8        |
| 2.592000        | ---              | 19.54           | 46.00        | 26.46       | L1   | ON     | 9.8        |
| 2.592000        | 28.52            | ---             | 56.00        | 27.48       | L1   | ON     | 9.8        |
| 3.844000        | ---              | 18.36           | 46.00        | 27.64       | L1   | ON     | 9.8        |
| 3.844000        | 27.61            | ---             | 56.00        | 28.39       | 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



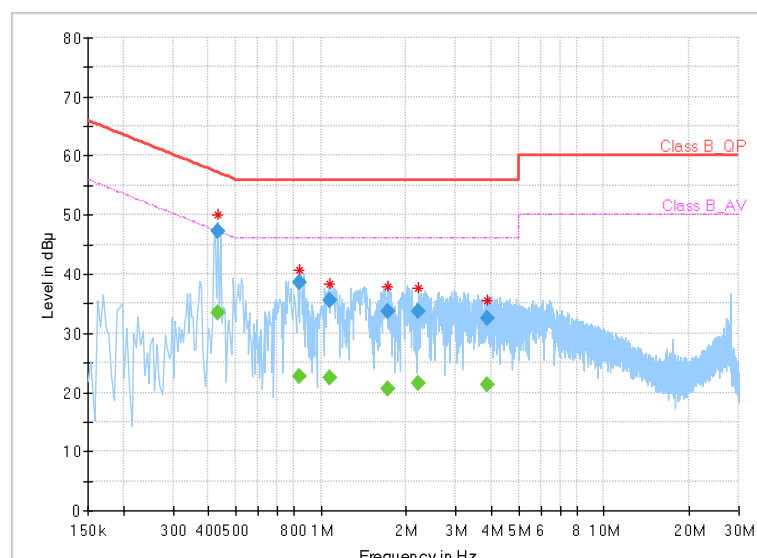


|                 |                |                                          |                                       |
|-----------------|----------------|------------------------------------------|---------------------------------------|
| Frequency Range | 150KHz ~ 30MHz | Detector Function & Resolution 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) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.432000        | ---              | 33.36           | 47.21        | 13.85       | N    | ON     | 9.6        |
| 0.432000        | 47.25            | ---             | 57.21        | 9.96        | N    | ON     | 9.6        |
| 0.840000        | ---              | 22.73           | 46.00        | 23.27       | N    | ON     | 9.7        |
| 0.840000        | 38.55            | ---             | 56.00        | 17.45       | N    | ON     | 9.7        |
| 1.072000        | ---              | 22.52           | 46.00        | 23.48       | N    | ON     | 9.7        |
| 1.072000        | 35.61            | ---             | 56.00        | 20.39       | N    | ON     | 9.7        |
| 1.728000        | ---              | 20.69           | 46.00        | 25.31       | N    | ON     | 9.8        |
| 1.728000        | 33.62            | ---             | 56.00        | 22.38       | N    | ON     | 9.8        |
| 2.212000        | ---              | 21.43           | 46.00        | 24.57       | N    | ON     | 9.8        |
| 2.212000        | 33.78            | ---             | 56.00        | 22.22       | N    | ON     | 9.8        |
| 3.880000        | ---              | 21.20           | 46.00        | 24.80       | N    | ON     | 9.7        |
| 3.880000        | 32.59            | ---             | 56.00        | 23.41       | N    | ON     | 9.7        |

- 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

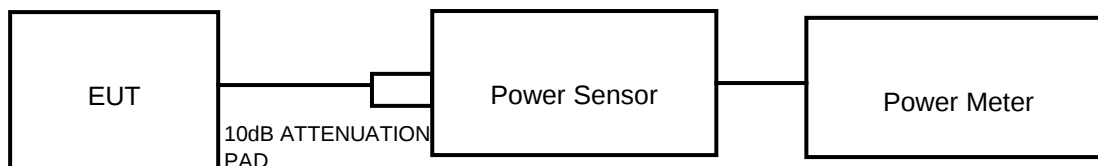
| Operation Band | EUT Category |                                   | LIMIT                                                                                                                       |
|----------------|--------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 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.

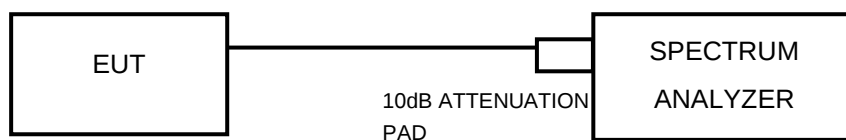
### 3.3.2 TEST SETUP

#### FOR POWER OUTPUT MEASUREMENT

802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) ,802.11 ac/ax (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. 14,24 | Feb. 13,25 |
| EXA Signal Analyzer | KEYSIGHT     | N9010A-526 | MY54510523 | Feb. 14,24 | Feb. 13,25 |
| EXA Signal Analyzer | KEYSIGHT     | N9010A-544 | MY54510355 | May.10,23  | May.09,24  |
| EXA Signal Analyzer | KEYSIGHT     | N9010A-544 | MY54510355 | May.09,24  | May.08,25  |
| Power Sensor        | ANRITSU      | MA2411B    | 1339352    | Feb. 14,24 | Feb. 13,25 |

**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, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) ,802.11 ac/ax (80MHz)**

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 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%.



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#### 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.



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### 3.3.7 TEST RESULTS

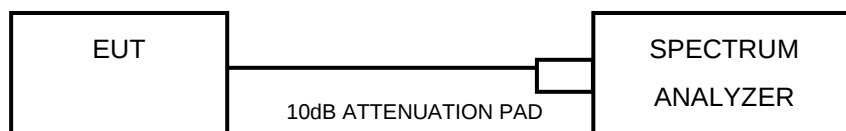
Please Refer to Appendix C.

### 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(Band1/2/3)

- 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

Using method SA-2 (Band4)

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW  $\geq$  1 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  $10 \log(500\text{kHz}/\text{RBW})$  to the test result.  $10 \log(500\text{kHz}/300\text{KHZ}) = 2.22\text{dBm}$
- 7) 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).
- 8) 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 C.

### 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 signaling 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.

### 3.6 ANTENNA REQUIREMENTS

#### 3.6.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmits power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 3.6.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

#### 3.6.3 ANTENNA GAIN

According to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain=GANT +Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain=  $10 \log(NANT/ Nss)$  dB;

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for  $NANT \leq 4$ ;

The EUT supports Cyclic Delay Diversity (CDD) mode,

For power measurements, the directional GANT is set equal to the antenna having the highest gain as following formulas.

Directional Gain = Max.Gain + Array Gain.

For PSD measurements, the directional GANT is calculation is following F)2)f)ii of KDB 662911 D01 v02r01.

The directional gain is calculated as following table.

|             | Band            | Ant 8<br>(dBi) | Ant 9<br>(dBi) | DG<br>For Power<br>(dBi) | DG<br>For PSD<br>(dBi) | Power<br>Limit<br>Reduction<br>(dB) | PSD<br>Limit<br>Reduction<br>(dB) |
|-------------|-----------------|----------------|----------------|--------------------------|------------------------|-------------------------------------|-----------------------------------|
| <b>5GHz</b> | <b>U-NII 1</b>  | -0.4           | -0.2           | -0.2                     | <b>2.71</b>            | <b>0</b>                            | <b>0</b>                          |
|             | <b>U-NII 2A</b> | -0.4           | -0.2           | -0.2                     | <b>2.71</b>            | <b>0</b>                            | <b>0</b>                          |
|             | <b>U-NII 2C</b> | -0.4           | -0.2           | -0.2                     | <b>2.71</b>            | <b>0</b>                            | <b>0</b>                          |
|             | <b>U-NII 3</b>  | -0.4           | -0.2           | -0.2                     | <b>2.71</b>            | <b>0</b>                            | <b>0</b>                          |

NOTE :DG= directional gain, Power Limit Reduction = DG For Power Gain -6dbi<0

PSD Limit Reduction = DG For PSD – 6dBi<0. Therefore, it is not necessary to reduce maximum peak output power and PSD limit.



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## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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## 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.

--END--