

**802.11n-HT20 mode**

| Mode              | Channel        | Frequency Range   | Test Results | Conclusion |
|-------------------|----------------|-------------------|--------------|------------|
| 802.11n<br>-HT20  | 36(5180MHz)    | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 40(5200MHz)    | 30 MHz ~1 GHz     | ---          | P          |
|                   |                | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   |                | 18 GHz ~ 26.5 GHz | ---          | P          |
|                   |                | 26.5 GHz ~ 40 GHz | ---          | P          |
|                   |                | 26.5 GHz ~ 40 GHz | ---          | P          |
|                   | 48(5240MHz)    | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 52(5260MHz)    | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 56(5280MHz)    | 30 MHz ~1 GHz     | ---          | P          |
|                   |                | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   |                | 18 GHz ~ 26.5 GHz | ---          | P          |
|                   |                | 26.5 GHz ~ 40 GHz | ---          | P          |
|                   | 64(5320MHz)    | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 100(5500MHz)   | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 120(5600MHz)   | 30 MHz ~1 GHz     | ---          | P          |
|                   |                | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   |                | 18 GHz ~ 26.5 GHz | ---          | P          |
| 26.5 GHz ~ 40 GHz |                | ---               | P            |            |
| 140(5700MHz)      | 1 GHz ~ 3 GHz  | ---               | P            |            |
|                   | 3 GHz ~ 7 GHz  | ---               | P            |            |
|                   | 7 GHz ~ 18 GHz | ---               | P            |            |

**802.11n-HT40 mode**

| Mode            | Channel           | Frequency Range   | Test Results | Conclusion |
|-----------------|-------------------|-------------------|--------------|------------|
| 802.11n<br>HT40 | 38(5190MHz)       | 30 MHz ~1 GHz     | ---          | P          |
|                 |                   | 1 GHz ~ 3 GHz     | ---          | P          |
|                 |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                 |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                 |                   | 18 GHz ~ 26.5 GHz | ---          | P          |
|                 |                   | 26.5 GHz ~ 40 GHz | ---          | P          |
|                 | 46(5230MHz)       | 1 GHz ~ 3 GHz     | ---          | P          |
|                 |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                 |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                 | 54(5270MHz)       | 30 MHz ~1 GHz     | ---          | P          |
|                 |                   | 1 GHz ~ 3 GHz     | ---          | P          |
|                 |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                 |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                 |                   | 18 GHz ~ 26.5 GHz | ---          | P          |
|                 |                   | 26.5 GHz ~ 40 GHz | ---          | P          |
|                 | 62(5310MHz)       | 30 MHz ~1 GHz     | ---          | P          |
|                 |                   | 1 GHz ~ 3 GHz     | ---          | P          |
|                 |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                 |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                 |                   | 18 GHz ~ 26.5 GHz | ---          | P          |
|                 |                   | 26.5 GHz ~ 40 GHz | ---          | P          |
|                 | 102(5510MHz)      | 30 MHz ~1 GHz     | ---          | P          |
|                 |                   | 1 GHz ~ 3 GHz     | ---          | P          |
|                 |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                 |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                 |                   | 18 GHz ~ 26.5 GHz | ---          | P          |
|                 |                   | 26.5 GHz ~ 40 GHz | ---          | P          |
|                 | 118(5590MHz)      | 1 GHz ~ 3 GHz     | ---          | P          |
|                 |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                 |                   | 7 GHz ~ 18 GHz    | ---          | P          |
| 134(5670MHz)    | 30 MHz ~1 GHz     | ---               | P            |            |
|                 | 1 GHz ~ 3 GHz     | ---               | P            |            |
|                 | 3 GHz ~ 7 GHz     | ---               | P            |            |
|                 | 7 GHz ~ 18 GHz    | ---               | P            |            |
|                 | 18 GHz ~ 26.5 GHz | ---               | P            |            |
|                 | 26.5 GHz ~ 40 GHz | ---               | P            |            |

**802.11ac-HT20 mode**

| Mode              | Channel        | Frequency Range   | Test Results | Conclusion |
|-------------------|----------------|-------------------|--------------|------------|
| 802.11ac<br>-HT20 | 36(5180MHz)    | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 40(5200MHz)    | 30 MHz ~1 GHz     | ---          | P          |
|                   |                | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   |                | 18 GHz ~ 26.5 GHz | ---          | P          |
|                   |                | 26.5 GHz ~ 40 GHz | ---          | P          |
|                   | 48(5240MHz)    | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 52(5260MHz)    | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 56(5280MHz)    | 30 MHz ~1 GHz     | ---          | P          |
|                   |                | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   |                | 18 GHz ~ 26.5 GHz | ---          | P          |
|                   |                | 26.5 GHz ~ 40 GHz | ---          | P          |
|                   | 64(5320MHz)    | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 100(5500MHz)   | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   | 120(5600MHz)   | 30 MHz ~1 GHz     | ---          | P          |
|                   |                | 1 GHz ~ 3 GHz     | ---          | P          |
|                   |                | 3 GHz ~ 7 GHz     | ---          | P          |
|                   |                | 7 GHz ~ 18 GHz    | ---          | P          |
|                   |                | 18 GHz ~ 26.5 GHz | ---          | P          |
|                   |                | 26.5 GHz ~ 40 GHz | ---          | P          |
| 140(5700MHz)      | 1 GHz ~ 3 GHz  | ---               | P            |            |
|                   | 3 GHz ~ 7 GHz  | ---               | P            |            |
|                   | 7 GHz ~ 18 GHz | ---               | P            |            |

**802.11ac-HT40 mode**

| Mode             | Channel           | Frequency Range   | Test Results | Conclusion |
|------------------|-------------------|-------------------|--------------|------------|
| 802.11ac<br>HT40 | 38(5190MHz)       | 30 MHz ~1 GHz     | ---          | P          |
|                  |                   | 1 GHz ~ 3 GHz     | ---          | P          |
|                  |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                  |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                  |                   | 18 GHz ~ 26.5 GHz | ---          | P          |
|                  |                   | 26.5 GHz ~ 40 GHz | ---          | P          |
|                  | 46(5230MHz)       | 1 GHz ~ 3 GHz     | ---          | P          |
|                  |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                  |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                  | 54(5270MHz)       | 30 MHz ~1 GHz     | ---          | P          |
|                  |                   | 1 GHz ~ 3 GHz     | ---          | P          |
|                  |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                  |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                  |                   | 18 GHz ~ 26.5 GHz | ---          | P          |
|                  |                   | 26.5 GHz ~ 40 GHz | ---          | P          |
|                  | 62(5310MHz)       | 30 MHz ~1 GHz     | ---          | P          |
|                  |                   | 1 GHz ~ 3 GHz     | ---          | P          |
|                  |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                  |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                  |                   | 18 GHz ~ 26.5 GHz | ---          | P          |
|                  |                   | 26.5 GHz ~ 40 GHz | ---          | P          |
|                  | 102(5510MHz)      | 30 MHz ~1 GHz     | ---          | P          |
|                  |                   | 1 GHz ~ 3 GHz     | ---          | P          |
|                  |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                  |                   | 7 GHz ~ 18 GHz    | ---          | P          |
|                  |                   | 18 GHz ~ 26.5 GHz | ---          | P          |
|                  |                   | 26.5 GHz ~ 40 GHz | ---          | P          |
|                  | 118(5590MHz)      | 1 GHz ~ 3 GHz     | ---          | P          |
|                  |                   | 3 GHz ~ 7 GHz     | ---          | P          |
|                  |                   | 7 GHz ~ 18 GHz    | ---          | P          |
| 134(5670MHz)     | 30 MHz ~1 GHz     | ---               | P            |            |
|                  | 1 GHz ~ 3 GHz     | ---               | P            |            |
|                  | 3 GHz ~ 7 GHz     | ---               | P            |            |
|                  | 7 GHz ~ 18 GHz    | ---               | P            |            |
|                  | 18 GHz ~ 26.5 GHz | ---               | P            |            |
|                  | 26.5 GHz ~ 40 GHz | ---               | P            |            |

**802.11ac-HT80 mode**

| Mode              | Channel      | Frequency Range   | Test Results   | Conclusion |
|-------------------|--------------|-------------------|----------------|------------|
| 802.11ac<br>-HT80 | 42(5210MHz)  | 1 GHz ~ 3 GHz     | ---            | P          |
|                   |              | 3 GHz ~ 7 GHz     | ---            | P          |
|                   |              | 7 GHz ~ 18 GHz    | ---            | P          |
|                   | 58(5290MHz)  | 30 MHz ~ 1 GHz    | ---            | P          |
|                   |              | 1 GHz ~ 3 GHz     | ---            | P          |
|                   |              | 3 GHz ~ 7 GHz     | ---            | P          |
|                   |              | 7 GHz ~ 18 GHz    | ---            | P          |
|                   |              | 18 GHz ~ 26.5 GHz | ---            | P          |
|                   | 106(5530MHz) | 26.5 GHz ~ 40 GHz | ---            | P          |
|                   |              | 1 GHz ~ 3 GHz     | ---            | P          |
|                   |              | 3 GHz ~ 7 GHz     | ---            | P          |
|                   | 122(5610MHz) | 7 GHz ~ 18 GHz    | ---            | P          |
|                   |              | 1 GHz ~ 3 GHz     | ---            | P          |
|                   |              | 3 GHz ~ 7 GHz     | ---            | P          |
|                   |              |                   | 7 GHz ~ 18 GHz | ---        |

**Conclusion: PASS**

**Note:**

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

$P_{Mea}$  is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

**AVERAGE Results:**
**802.11a**

## Channel 36

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17982.4         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17976.9         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | H                  |
| 17980.2         | 41.9                              | -25.5           | 46.7                  | 20.7                          | 54.0                 | 33.3        | H                  |
| 17988.5         | 41.9                              | -25.5           | 46.7                  | 20.7                          | 54.0                 | 33.3        | V                  |
| 17969.2         | 41.8                              | -25.5           | 46.7                  | 20.6                          | 54.0                 | 33.4        | V                  |
| 5149.2          | 46                                | -27.6           | 33.7                  | 39.9                          | 54.0                 | 14.1        | H                  |

## Channel 40

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17981.8         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17983           | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 17994           | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |
| 17964.8         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | V                  |
| 17977.5         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | V                  |
| 17980.2         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | V                  |

## Channel 48

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17976.9         | 42.8                              | -25.5           | 46.7                  | 21.6                          | 54.0                 | 32.4        | V                  |
| 17986.8         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17983           | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17992.8         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |
| 17980.2         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |
| 17986.2         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |

## Channel 52

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17997.2         | 42.8                              | -25.5           | 46.7                  | 21.6                          | 54.0                 | 32.4        | V                  |
| 17968.7         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17973.6         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17990.1         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17972           | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17974.2         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |

## Channel 56

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17959.8         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 17964.8         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17989.5         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 17968.1         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | H                  |
| 17981.3         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | H                  |
| 17997.8         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |

## Channel 64

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17970.3         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | V                  |
| 17984.6         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17996.2         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17970.8         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17988.5         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 5351.2          | 39.6                              | -27.4           | 34.0                  | 33.0                          | 54.0                 | 21.0        | H                  |

## Channel 100

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17987.9         | 42.8                              | -25.5           | 46.7                  | 21.6                          | 54.0                 | 32.4        | V                  |
| 17981.3         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 17990.7         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17972.5         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | H                  |
| 17976.3         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 5450            | 39.1                              | -27.2           | 34.2                  | 32.1                          | 54.0                 | 21.9        | H                  |

## Channel 120

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17963.7         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17976.3         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | H                  |
| 17975.8         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17994           | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17985.2         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17996.7         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |

## Channel 140

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17986.8         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | V                  |
| 17990.7         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | H                  |
| 17972.5         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17977.5         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17979.7         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 5725.1          | 50                                | -27.1           | 34.3                  | 42.8                          | 54.0                 | 11.2        | H                  |



**802.11n-HT20**

## Channel 36

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17958.2         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17998.3         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | H                  |
| 17985.7         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17984           | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17977.5         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 5149.4          | 42.1                              | -27.6           | 33.7                  | 36.0                          | 54.0                 | 18.0        | H                  |

## Channel 40

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17981.8         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |
| 17977.5         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | H                  |
| 17982.4         | 41.9                              | -25.5           | 46.7                  | 20.7                          | 54.0                 | 33.3        | H                  |
| 17994           | 41.9                              | -25.5           | 46.7                  | 20.7                          | 54.0                 | 33.3        | H                  |
| 17896.6         | 41.8                              | -25.5           | 46.7                  | 20.6                          | 54.0                 | 33.4        | V                  |
| 17953.8         | 41.8                              | -25.5           | 46.7                  | 20.6                          | 54.0                 | 33.4        | V                  |

## Channel 48

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17965.3         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 17997.8         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 17975.8         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | V                  |
| 17984           | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | V                  |
| 17985.2         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | V                  |
| 17987.9         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | H                  |

## Channel 52

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17983.5         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17984           | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17961.5         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17968.7         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17972           | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17974.2         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |

## Channel 56

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17958.8         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17981.8         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17972           | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17996.2         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17998.3         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17961.5         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |

## Channel 64

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17997.2         | 42.7                              | -25.5           | 46.7                  | 21.5                          | 54.0                 | 32.5        | V                  |
| 17980.8         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | V                  |
| 17982.4         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17981.3         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17992.8         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 5351.1          | 39.7                              | -27.4           | 34.0                  | 33.1                          | 54.0                 | 20.9        | H                  |

## Channel 100

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17978           | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17992.8         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17980.2         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |
| 17983.5         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17995           | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 5452.7          | 39                                | -27.2           | 34.2                  | 32.0                          | 54.0                 | 22.0        | H                  |

## Channel 120

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17985.7         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17980.2         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17972.5         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17975.8         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17956.5         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 17959.3         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |

## Channel 140

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17989           | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 17998.3         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |
| 17966.5         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 17972           | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |
| 17983           | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |
| 5725.1          | 52.9                              | -27.1           | 34.3                  | 45.7                          | 54.0                 | 8.3         | H                  |

**802.11n-HT40**

## Channel 38

| Frequency (MHz) | Measurement Result (dBμV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBμV) | Limit (dBμV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17985.7         | 42.5                        | -25.5           | 46.7                  | 21.3                    | 54.0           | 32.7        | V                  |
| 17987.9         | 42.4                        | -25.5           | 46.7                  | 21.2                    | 54.0           | 32.8        | V                  |
| 17979.1         | 42.3                        | -25.5           | 46.7                  | 21.1                    | 54.0           | 32.9        | V                  |
| 17968.1         | 42.1                        | -25.5           | 46.7                  | 20.9                    | 54.0           | 33.1        | V                  |
| 17971.4         | 42.1                        | -25.5           | 46.7                  | 20.9                    | 54.0           | 33.1        | V                  |
| 5149.9          | 50.5                        | -27.6           | 33.7                  | 44.4                    | 54.0           | 9.6         | H                  |

## Channel 46

| Frequency (MHz) | Measurement Result (dBμV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBμV) | Limit (dBμV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17975.8         | 42.3                        | -25.5           | 46.7                  | 21.1                    | 54.0           | 32.9        | H                  |
| 17954.3         | 42.2                        | -25.5           | 46.7                  | 21.0                    | 54.0           | 33.0        | V                  |
| 17963.7         | 42.2                        | -25.5           | 46.7                  | 21.0                    | 54.0           | 33.0        | H                  |
| 17977.5         | 42.2                        | -25.5           | 46.7                  | 21.0                    | 54.0           | 33.0        | V                  |
| 17993.4         | 42.2                        | -25.5           | 46.7                  | 21.0                    | 54.0           | 33.0        | H                  |
| 17967.5         | 42.1                        | -25.5           | 46.7                  | 20.9                    | 54.0           | 33.1        | V                  |

## Channel 54

| Frequency (MHz) | Measurement Result (dBμV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBμV) | Limit (dBμV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 7346.5          | 46.3                        | -35.1           | 36.6                  | 44.8                    | 54.0           | 9.2         | V                  |
| 17959.8         | 42.5                        | -25.5           | 46.7                  | 21.3                    | 54.0           | 32.7        | V                  |
| 17963.7         | 42.4                        | -25.5           | 46.7                  | 21.2                    | 54.0           | 32.8        | V                  |
| 17981.8         | 42.4                        | -25.5           | 46.7                  | 21.2                    | 54.0           | 32.8        | V                  |
| 17965.9         | 42.3                        | -25.5           | 46.7                  | 21.1                    | 54.0           | 32.9        | V                  |
| 17973.6         | 42.3                        | -25.5           | 46.7                  | 21.1                    | 54.0           | 32.9        | V                  |

## Channel 62

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 46.2                              | -35.1           | 36.6                  | 44.7                          | 54.0                 | 9.3         | V                  |
| 17977.5         | 42.7                              | -25.5           | 46.7                  | 21.5                          | 54.0                 | 32.5        | V                  |
| 17988.5         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17958.8         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17983           | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 5350            | 47                                | -27.4           | 34.0                  | 40.4                          | 54.0                 | 13.6        | H                  |

## Channel 102

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 45.9                              | -35.1           | 36.6                  | 44.4                          | 54.0                 | 9.6         | V                  |
| 17967.5         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | V                  |
| 17968.7         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17974.7         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | H                  |
| 17979.1         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 5459.6          | 40.7                              | -27.2           | 34.2                  | 33.7                          | 54.0                 | 20.3        | H                  |

## Channel 118

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 46.5                              | -35.1           | 36.6                  | 45.0                          | 54.0                 | 9.0         | V                  |
| 17979.1         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | H                  |
| 17965.9         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17982.4         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 17995.6         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17952.7         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |

## Channel 134

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 46                                | -35.1           | 36.6                  | 44.5                          | 54.0                 | 9.5         | V                  |
| 17978.5         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 17990.7         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 17989           | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17962.6         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 5725.7          | 44.8                              | -27.1           | 34.3                  | 37.6                          | 54.0                 | 16.4        | H                  |

**802.11ac-HT20**

## Channel 36

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17997.2         | 41.9                              | -25.5           | 46.7                  | 20.7                          | 54.0                 | 33.3        | V                  |
| 17974.7         | 41.8                              | -25.5           | 46.7                  | 20.6                          | 54.0                 | 33.4        | H                  |
| 17979.1         | 41.8                              | -25.5           | 46.7                  | 20.6                          | 54.0                 | 33.4        | V                  |
| 17981.8         | 41.8                              | -25.5           | 46.7                  | 20.6                          | 54.0                 | 33.4        | H                  |
| 17989           | 41.7                              | -25.5           | 46.7                  | 20.5                          | 54.0                 | 33.5        | H                  |
| 5149.9          | 42.4                              | -27.6           | 33.7                  | 36.3                          | 54.0                 | 17.7        | H                  |

## Channel 40

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17988.5         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | V                  |
| 17994.5         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | H                  |
| 17987.3         | 41.9                              | -25.5           | 46.7                  | 20.7                          | 54.0                 | 33.3        | V                  |
| 17882.8         | 41.7                              | -25.5           | 46.7                  | 20.5                          | 54.0                 | 33.5        | V                  |
| 17955.5         | 41.7                              | -25.5           | 46.7                  | 20.5                          | 54.0                 | 33.5        | V                  |
| 17970.3         | 41.7                              | -25.5           | 46.7                  | 20.5                          | 54.0                 | 33.5        | V                  |

## Channel 48

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17994           | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |
| 17967.5         | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | H                  |
| 17983           | 42                                | -25.5           | 46.7                  | 20.8                          | 54.0                 | 33.2        | V                  |
| 17974.7         | 41.9                              | -25.5           | 46.7                  | 20.7                          | 54.0                 | 33.3        | V                  |
| 17975.2         | 41.9                              | -25.5           | 46.7                  | 20.7                          | 54.0                 | 33.3        | V                  |
| 17988.5         | 41.9                              | -25.5           | 46.7                  | 20.7                          | 54.0                 | 33.3        | H                  |

## Channel 52

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17994           | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17974.7         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17982.4         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 17991.8         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 17970.8         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17989           | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |

## Channel 56

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17997.8         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17875.2         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17974.7         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |
| 17978.5         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 17997.2         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |
| 17998.9         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |

## Channel 64

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17997.8         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17960.4         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17978.5         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17991.2         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17970.8         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 5350.3          | 38.5                              | -27.4           | 34.0                  | 31.9                          | 54.0                 | 22.1        | H                  |

## Channel 100

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17978           | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17992.8         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17980.2         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |
| 17983.5         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17995           | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 5452.7          | 39                                | -27.2           | 34.2                  | 32.0                          | 54.0                 | 22.0        | H                  |

## Channel 120

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17985.7         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17980.2         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17972.5         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17975.8         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17956.5         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 17959.3         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |



## Channel 140

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17989           | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 17998.3         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |
| 17966.5         | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | V                  |
| 17972           | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |
| 17983           | 42.1                              | -25.5           | 46.7                  | 20.9                          | 54.0                 | 33.1        | H                  |
| 5725.1          | 52.9                              | -27.1           | 34.3                  | 45.7                          | 54.0                 | 8.3         | H                  |

**802.11ac-HT40**

## Channel 38

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17978.5         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17991.2         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17992.8         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17975.8         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |
| 17984           | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | H                  |
| 5149.8          | 50.8                              | -27.6           | 33.7                  | 44.7                          | 54.0                 | 9.3         | H                  |

## Channel 46

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17985.2         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17984.6         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17994.5         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 17897.7         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17986.2         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |
| 17997.2         | 42.2                              | -25.5           | 46.7                  | 21.0                          | 54.0                 | 33.0        | V                  |

## Channel 54

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 45.2                              | -35.1           | 36.6                  | 43.7                          | 54.0                 | 10.3        | V                  |
| 17981.8         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | V                  |
| 17998.3         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17997.8         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17973.6         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17977.5         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |

## Channel 62

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 46                                | -35.1           | 36.6                  | 44.5                          | 54.0                 | 9.5         | V                  |
| 17980.8         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | V                  |
| 17990.1         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | V                  |
| 17976.3         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 17984           | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 5350.2          | 47.3                              | -27.4           | 34.0                  | 40.7                          | 54.0                 | 13.3        | H                  |

## Channel 102

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 46.1                              | -35.1           | 36.6                  | 44.6                          | 54.0                 | 9.4         | V                  |
| 17973.6         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17990.7         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17980.2         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17992.3         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | H                  |
| 5460            | 40.7                              | -27.2           | 34.2                  | 33.7                          | 54.0                 | 20.3        | H                  |

## Channel 118

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 45.2                              | -35.1           | 36.6                  | 43.7                          | 54.0                 | 10.3        | V                  |
| 17997.2         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17997.8         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17966.5         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 17971.4         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17975.2         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |

## Channel 134

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 46.3                              | -35.1           | 36.6                  | 44.8                          | 54.0                 | 9.2         | V                  |
| 17979.1         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 17986.8         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17987.3         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | H                  |
| 17997.2         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 5725.2          | 44.8                              | -27.1           | 34.3                  | 37.6                          | 54.0                 | 16.4        | H                  |

**802.11ac-HT80**

## Channel 42

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 45.1                              | -35.1           | 36.6                  | 43.6                          | 54.0                 | 10.4        | V                  |
| 17984.6         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | V                  |
| 17966.5         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | H                  |
| 17978.5         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17978           | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 5149.2          | 52.2                              | -27.6           | 33.7                  | 46.1                          | 54.0                 | 7.9         | H                  |

## Channel 58

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 46.3                              | -35.1           | 36.6                  | 44.8                          | 54.0                 | 9.2         | V                  |
| 17981.8         | 42.7                              | -25.5           | 46.7                  | 21.5                          | 54.0                 | 32.5        | V                  |
| 17991.2         | 42.7                              | -25.5           | 46.7                  | 21.5                          | 54.0                 | 32.5        | H                  |
| 17990.7         | 42.6                              | -25.5           | 46.7                  | 21.4                          | 54.0                 | 32.6        | V                  |
| 17980.2         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 5350            | 53.1                              | -27.4           | 34.0                  | 46.5                          | 54.0                 | 7.5         | H                  |

## Channel 106

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 46.4                              | -35.1           | 36.6                  | 44.9                          | 54.0                 | 9.1         | V                  |
| 17989.5         | 42.5                              | -25.5           | 46.7                  | 21.3                          | 54.0                 | 32.7        | V                  |
| 17997.8         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17974.2         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | V                  |
| 17983.5         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 5459.9          | 48.5                              | -27.2           | 34.2                  | 41.5                          | 54.0                 | 12.5        | H                  |

## Channel 122

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 7346.5          | 46.3                              | -35.1           | 36.6                  | 44.8                          | 54.0                 | 9.2         | V                  |
| 17977.5         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17985.7         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17990.7         | 42.4                              | -25.5           | 46.7                  | 21.2                          | 54.0                 | 32.8        | V                  |
| 17976.9         | 42.3                              | -25.5           | 46.7                  | 21.1                          | 54.0                 | 32.9        | H                  |
| 5726.2          | 42.1                              | -27.1           | 34.3                  | 34.9                          | 54.0                 | 19.1        | H                  |

**PEAK Results:**
**802.11a**

## Channel 36

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17983           | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | H                  |
| 17947.8         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17967           | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 17971.4         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 17984.6         | 52.9                              | -25.5           | 46.7                  | 31.7                          | 74.0                 | 42.3        | V                  |
| 5149.6          | 58.1                              | -27.6           | 33.7                  | 52.0                          | 74.0                 | 22.0        | H                  |

## Channel 40

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17970.8         | 54.7                              | -25.5           | 46.7                  | 33.5                          | 74.0                 | 40.5        | H                  |
| 17969.2         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17983           | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 17979.7         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 17892.2         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |
| 17956.5         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |

## Channel 48

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17990.7         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | V                  |
| 17889.5         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 17901.5         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |
| 17992.8         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 17890.5         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | H                  |
| 17899.3         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |

## Channel 52

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17986.8         | 54.6                              | -25.5           | 46.7                  | 33.4                          | 74.0                 | 40.6        | V                  |
| 17980.8         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17887.2         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17884.5         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17985.2         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 17975.8         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |

## Channel 56

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17965.3         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | V                  |
| 17973           | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | V                  |
| 17880.7         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 17806.4         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 17901.5         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | H                  |
| 17918.6         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |

## Channel 64

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17964.8         | 54.5                              | -25.5           | 46.7                  | 33.3                          | 74.0                 | 40.7        | H                  |
| 17895.5         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | H                  |
| 17962.6         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |
| 17974.2         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |
| 17924.7         | 53                                | -25.5           | 46.7                  | 31.8                          | 74.0                 | 42.2        | V                  |
| 5354.8          | 55.1                              | -27.4           | 34.0                  | 48.5                          | 74.0                 | 25.5        | H                  |

## Channel 100

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17973           | 54                                | -25.5           | 46.7                  | 32.8                          | 74.0                 | 41.2        | H                  |
| 17943.9         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17875.2         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 17897.7         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 17945.5         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |
| 5451.1          | 50.9                              | -27.2           | 34.2                  | 43.9                          | 74.0                 | 30.1        | H                  |

## Channel 120

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17892.2         | 54.1                              | -25.5           | 46.7                  | 32.9                          | 74.0                 | 41.1        | V                  |
| 17879.5         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17992.8         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 17990.7         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17968.1         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |
| 17952.2         | 53                                | -25.5           | 46.7                  | 31.8                          | 74.0                 | 42.2        | H                  |

## Channel 140

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17915.3         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | H                  |
| 17975.2         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17995.6         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17864.7         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 17644.2         | 52.9                              | -25.7           | 46.0                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 5725.3          | 63                                | -27.1           | 34.3                  | 55.8                          | 74.0                 | 18.2        | H                  |

**802.11n-HT20**

## Channel 36

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17977.5         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | V                  |
| 17971.4         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17979.1         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17886.7         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |
| 17779.5         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 5149.9          | 54.9                              | -27.6           | 33.7                  | 48.8                          | 74.0                 | 25.2        | H                  |

## Channel 40

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17974.7         | 54.2                              | -25.5           | 46.7                  | 33.0                          | 74.0                 | 41.0        | H                  |
| 17941.2         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17806.4         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | H                  |
| 17779.5         | 52.9                              | -25.5           | 46.7                  | 31.7                          | 74.0                 | 42.3        | V                  |
| 17956.5         | 52.8                              | -25.5           | 46.7                  | 31.6                          | 74.0                 | 42.4        | V                  |
| 17508.8         | 52.7                              | -26.9           | 45.2                  | 34.3                          | 74.0                 | 39.7        | H                  |

## Channel 48

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17991.8         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17875.2         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17945           | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17956           | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17990.1         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17998.3         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |



## Channel 52

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17973.6         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17874           | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17993.4         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17865.2         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 17973           | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 17948.8         | 52.9                              | -25.5           | 46.7                  | 31.7                          | 74.0                 | 42.3        | V                  |

## Channel 56

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17991.2         | 54.6                              | -25.5           | 46.7                  | 33.4                          | 74.0                 | 40.6        | V                  |
| 17946.1         | 54.2                              | -25.5           | 46.7                  | 33.0                          | 74.0                 | 41.0        | V                  |
| 17965.3         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17995           | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17979.7         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 17962.6         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |

## Channel 64

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17980.8         | 54.4                              | -25.5           | 46.7                  | 33.2                          | 74.0                 | 40.8        | V                  |
| 17959.8         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | V                  |
| 17892.2         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | H                  |
| 17986.2         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17948.8         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 5351            | 55.3                              | -27.4           | 34.0                  | 48.7                          | 74.0                 | 25.3        | H                  |

## Channel 100

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17979.7         | 54.3                              | -25.5           | 46.7                  | 33.1                          | 74.0                 | 40.9        | H                  |
| 17976.3         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17941.7         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 17991.2         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 17960.4         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 5453.7          | 50.5                              | -27.2           | 34.2                  | 43.5                          | 74.0                 | 30.5        | H                  |

## Channel 120

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17986.2         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17951           | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | V                  |
| 17864.2         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17882.3         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17952.2         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17970.8         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |

## Channel 140

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17930.2         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17975.8         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | H                  |
| 17942.8         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17969.2         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17990.7         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 5725.2          | 67.9                              | -27.1           | 34.3                  | 60.7                          | 74.0                 | 13.3        | H                  |

**802.11n-HT40**

## Channel 38

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17957.7         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17985.2         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17820.7         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | H                  |
| 17872.4         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | H                  |
| 17877.3         | 53                                | -25.5           | 46.7                  | 31.8                          | 74.0                 | 42.2        | V                  |
| 5147.7          | 62.4                              | -27.6           | 33.7                  | 56.3                          | 74.0                 | 17.7        | H                  |

## Channel 46

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17976.3         | 54.2                              | -25.5           | 46.7                  | 33.0                          | 74.0                 | 41.0        | H                  |
| 17989           | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17763.5         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17877.3         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17892.8         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |
| 17989.5         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |

## Channel 54

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17972           | 54.1                              | -25.5           | 46.7                  | 32.9                          | 74.0                 | 41.1        | H                  |
| 17993.4         | 54                                | -25.5           | 46.7                  | 32.8                          | 74.0                 | 41.2        | V                  |
| 17971.4         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | H                  |
| 17991.8         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17969.8         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17932.3         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |

## Channel 62

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17983.5         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17945           | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17964.2         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17970.3         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17968.7         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 5352.1          | 59.8                              | -27.4           | 34.0                  | 53.2                          | 74.0                 | 20.8        | H                  |

## Channel 102

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17990.1         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | H                  |
| 17992.8         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17874           | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 17998.9         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 17869.7         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 5459.6          | 52.9                              | -27.2           | 34.2                  | 45.9                          | 74.0                 | 28.1        | H                  |

## Channel 118

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17891.7         | 54.2                              | -25.5           | 46.7                  | 33.0                          | 74.0                 | 41.0        | V                  |
| 17974.2         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17884.5         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | H                  |
| 17967.5         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17969.2         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17970.3         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |

## Channel 134

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17959.3         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17971.4         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 17977.5         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 17970.8         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17797           | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |
| 5727.7          | 56.9                              | -27.1           | 34.3                  | 49.7                          | 74.0                 | 24.3        | H                  |

**802.11ac-HT20**

## Channel 36

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17880.7         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | H                  |
| 17985.7         | 53                                | -25.5           | 46.7                  | 31.8                          | 74.0                 | 42.2        | V                  |
| 17896           | 52.9                              | -25.5           | 46.7                  | 31.7                          | 74.0                 | 42.3        | V                  |
| 17496.8         | 52.7                              | -26.9           | 45.2                  | 34.3                          | 74.0                 | 39.7        | V                  |
| 17968.7         | 52.7                              | -25.5           | 46.7                  | 31.5                          | 74.0                 | 42.5        | V                  |
| 5148.8          | 55.3                              | -27.6           | 33.7                  | 49.2                          | 74.0                 | 24.8        | H                  |

## Channel 40

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17880.1         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17979.1         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 17990.1         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |
| 17780           | 52.9                              | -25.5           | 46.7                  | 31.7                          | 74.0                 | 42.3        | H                  |
| 17904.8         | 52.9                              | -25.5           | 46.7                  | 31.7                          | 74.0                 | 42.3        | H                  |
| 17984           | 52.8                              | -25.5           | 46.7                  | 31.6                          | 74.0                 | 42.4        | H                  |

## Channel 48

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17959.8         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 17968.1         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 17972.5         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17868           | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |
| 17989           | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 17879           | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |

## Channel 52

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17939.5         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | H                  |
| 17965.9         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | H                  |
| 17974.7         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17865.2         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17871.8         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 17888.9         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |

## Channel 56

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17982.4         | 54.3                              | -25.5           | 46.7                  | 33.1                          | 74.0                 | 40.9        | H                  |
| 17960.4         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 17978.5         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |
| 17998.9         | 53                                | -25.5           | 46.7                  | 31.8                          | 74.0                 | 42.2        | V                  |
| 17869.1         | 52.9                              | -25.5           | 46.7                  | 31.7                          | 74.0                 | 42.3        | H                  |
| 17969.2         | 52.9                              | -25.5           | 46.7                  | 31.7                          | 74.0                 | 42.3        | H                  |

## Channel 64

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17857           | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 17973           | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 17881.8         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |
| 17921.3         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |
| 17978.5         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |
| 5350.5          | 54.3                              | -27.4           | 34.0                  | 47.7                          | 74.0                 | 26.3        | H                  |

## Channel 100

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17935.7         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | V                  |
| 17991.8         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17892.8         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17995           | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17998.9         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |
| 5454.8          | 50.6                              | -27.2           | 34.2                  | 43.6                          | 74.0                 | 30.4        | H                  |

## Channel 120

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17892.8         | 54.2                              | -25.5           | 46.7                  | 33.0                          | 74.0                 | 41.0        | H                  |
| 17952.2         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | V                  |
| 17985.7         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | V                  |
| 17980.8         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17863.6         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |
| 17878.5         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | H                  |

## Channel 140

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17955.5         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17971.4         | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17986.8         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | V                  |
| 17992.8         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | V                  |
| 17404.9         | 53.7                              | -26.9           | 45.2                  | 35.3                          | 74.0                 | 38.7        | V                  |
| 5725            | 68.1                              | -27.1           | 34.3                  | 60.9                          | 74.0                 | 13.1        | H                  |

**802.11ac-HT40**

## Channel 38

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17948.8         | 54.3                              | -25.5           | 46.7                  | 33.1                          | 74.0                 | 40.9        | H                  |
| 17963.2         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17498.4         | 53.4                              | -26.9           | 45.2                  | 35.0                          | 74.0                 | 39.0        | V                  |
| 17978           | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 17998.9         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 5147.5          | 63.2                              | -27.6           | 33.7                  | 57.1                          | 74.0                 | 16.9        | H                  |

## Channel 46

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17871.8         | 54                                | -25.5           | 46.7                  | 32.8                          | 74.0                 | 41.2        | V                  |
| 17980.8         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |
| 17904.8         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | H                  |
| 17994.5         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | H                  |
| 17974.2         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | H                  |
| 17984.6         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | V                  |



## Channel 54

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17919.7         | 54                                | -25.5           | 46.7                  | 32.8                          | 74.0                 | 41.2        | V                  |
| 17869.7         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17877.3         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17989           | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17990.1         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17521.5         | 53.5                              | -26.9           | 45.2                  | 35.1                          | 74.0                 | 38.9        | V                  |

## Channel 62

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17758           | 54                                | -25.5           | 46.7                  | 32.8                          | 74.0                 | 41.2        | V                  |
| 17973           | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17978.5         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 17986.8         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17988.5         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | V                  |
| 5351.5          | 58.8                              | -27.4           | 34.0                  | 52.2                          | 74.0                 | 21.8        | H                  |

## Channel 102

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17890.5         | 54.3                              | -25.5           | 46.7                  | 33.1                          | 74.0                 | 40.9        | H                  |
| 17971.4         | 54.3                              | -25.5           | 46.7                  | 33.1                          | 74.0                 | 40.9        | H                  |
| 17986.8         | 54.1                              | -25.5           | 46.7                  | 32.9                          | 74.0                 | 41.1        | V                  |
| 17980.8         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | H                  |
| 17983.5         | 53.8                              | -25.5           | 46.7                  | 32.6                          | 74.0                 | 41.4        | H                  |
| 5459.9          | 53.6                              | -27.2           | 34.2                  | 46.6                          | 74.0                 | 27.4        | H                  |

## Channel 118

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17973           | 54.4                              | -25.5           | 46.7                  | 33.2                          | 74.0                 | 40.8        | V                  |
| 17966.5         | 54                                | -25.5           | 46.7                  | 32.8                          | 74.0                 | 41.2        | H                  |
| 17972           | 53.9                              | -25.5           | 46.7                  | 32.7                          | 74.0                 | 41.3        | H                  |
| 17888.9         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17960.4         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17962.6         | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |

## Channel 134

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17971.4         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17983.5         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 17906.5         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17964.2         | 53.3                              | -25.5           | 46.7                  | 32.1                          | 74.0                 | 41.9        | V                  |
| 17962.6         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | H                  |
| 5725.5          | 57.5                              | -27.1           | 34.3                  | 50.3                          | 74.0                 | 23.7        | H                  |

**802.11ac-HT80**

## Channel 42

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17861.4         | 54.3                              | -25.5           | 46.7                  | 33.1                          | 74.0                 | 40.9        | V                  |
| 17203           | 53.4                              | -26.6           | 43.4                  | 36.6                          | 74.0                 | 37.4        | V                  |
| 17970.8         | 53.4                              | -25.5           | 46.7                  | 32.2                          | 74.0                 | 41.8        | H                  |
| 17984.6         | 53.2                              | -25.5           | 46.7                  | 32.0                          | 74.0                 | 42.0        | V                  |
| 17898.2         | 53.1                              | -25.5           | 46.7                  | 31.9                          | 74.0                 | 42.1        | H                  |
| 5145.7          | 64                                | -27.6           | 33.7                  | 57.9                          | 74.0                 | 16.1        | H                  |

## Channel 58

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17983.5         | 55.5                              | -25.5           | 46.7                  | 34.3                          | 74.0                 | 39.7        | H                  |
| 17989           | 53.7                              | -25.5           | 46.7                  | 32.5                          | 74.0                 | 41.5        | V                  |
| 17862           | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17984.6         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 17990.7         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 5359.1          | 65.5                              | -27.4           | 34.0                  | 58.9                          | 74.0                 | 15.1        | H                  |

## Channel 106

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17990.7         | 54.7                              | -25.5           | 46.7                  | 33.5                          | 74.0                 | 40.5        | V                  |
| 17988.5         | 54.3                              | -25.5           | 46.7                  | 33.1                          | 74.0                 | 40.9        | H                  |
| 17960.4         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17872.4         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 17978           | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | H                  |
| 5459.9          | 60.6                              | -27.2           | 34.2                  | 53.6                          | 74.0                 | 20.4        | H                  |

## Channel 122

| Frequency (MHz) | Measurement Result (dB $\mu$ V/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dB $\mu$ V) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------------|-----------------|-----------------------|-------------------------------|----------------------|-------------|--------------------|
| 17978           | 54.3                              | -25.5           | 46.7                  | 33.1                          | 74.0                 | 40.9        | V                  |
| 17891.1         | 54                                | -25.5           | 46.7                  | 32.8                          | 74.0                 | 41.2        | V                  |
| 17963.7         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | H                  |
| 17990.7         | 53.6                              | -25.5           | 46.7                  | 32.4                          | 74.0                 | 41.6        | V                  |
| 17941.7         | 53.5                              | -25.5           | 46.7                  | 32.3                          | 74.0                 | 41.7        | V                  |
| 5729.4          | 54.2                              | -27.1           | 34.3                  | 47.0                          | 74.0                 | 27.0        | H                  |

### B.7. AC Powerline Conducted Emission (150kHz- 30MHz)

**Test Condition:**

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120         | 60             |

**Measurement uncertainty:**

Expanded measurement uncertainty for this test item is U =3.10dB, k=2.

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

| Frequency range (MHz) | Quasi-peak Limit (dB $\mu$ V) | Result (dB $\mu$ V) |        | Conclusion |
|-----------------------|-------------------------------|---------------------|--------|------------|
|                       |                               | With charger AE5    |        |            |
|                       |                               | 802.11a             | Idle   |            |
| 0.15 to 0.5           | 66 to 56                      | Fig.58              | Fig.59 | <b>P</b>   |
| 0.5 to 5              | 56                            |                     |        |            |
| 5 to 30               | 60                            |                     |        |            |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

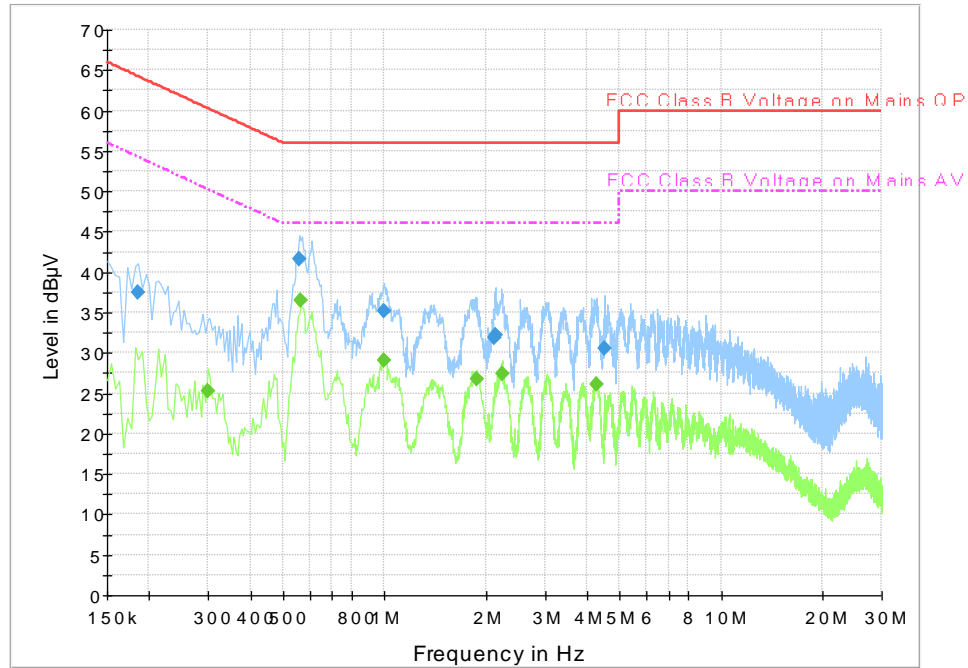
| Frequency range (MHz) | Average Limit (dB $\mu$ V) | Result (dB $\mu$ V) |        | Conclusion |
|-----------------------|----------------------------|---------------------|--------|------------|
|                       |                            | With charger AE5    |        |            |
|                       |                            | 802.11a             | Idle   |            |
| 0.15 to 0.5           | 67 56 to 46                | Fig.58              | Fig.59 | <b>P</b>   |
| 0.5 to 5              | 46                         |                     |        |            |
| 5 to 30               | 50                         |                     |        |            |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Conclusion: PASS**

Test graphs as below:

Traffic:



**Fig.58 Conducted Emission (802.11a, Ch36, TX)**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

**Final Result 1**

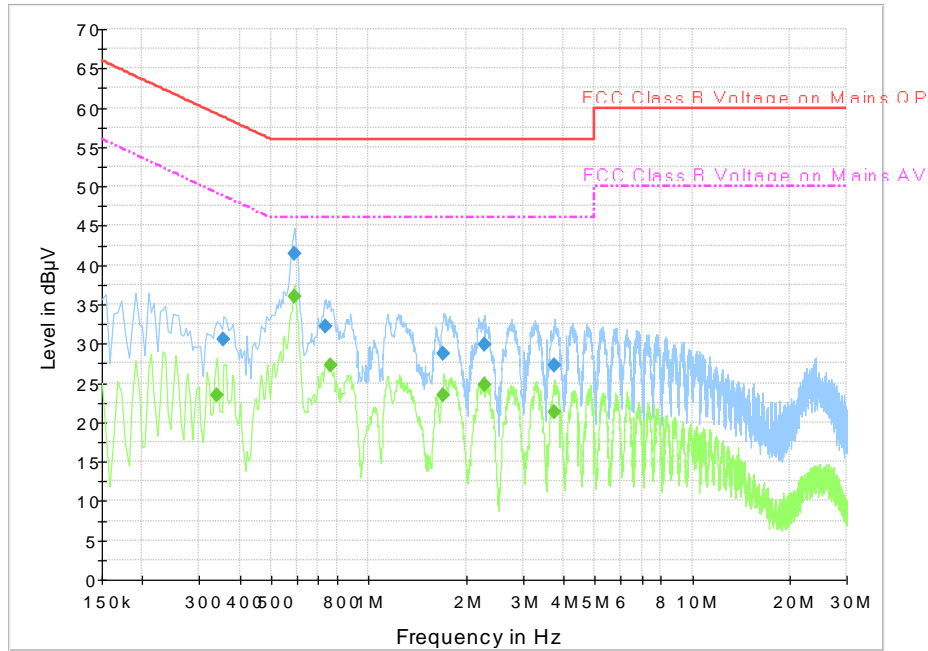
| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.186000        | 37.5             | 1000.0          | 9.000           | On     | L1   | 19.7       | 26.7        | 64.2         |
| 0.559500        | 41.5             | 1000.0          | 9.000           | On     | N    | 19.5       | 14.5        | 56.0         |
| 0.996000        | 35.1             | 1000.0          | 9.000           | On     | N    | 19.6       | 20.9        | 56.0         |
| 2.116500        | 31.8             | 1000.0          | 9.000           | On     | L1   | 19.5       | 24.2        | 56.0         |
| 2.134500        | 32.1             | 1000.0          | 9.000           | On     | L1   | 19.5       | 23.9        | 56.0         |
| 4.506000        | 30.6             | 1000.0          | 9.000           | On     | N    | 19.7       | 25.4        | 56.0         |

**Final Result 2**

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.298500        | 25.3             | 1000.0          | 9.000           | On     | N    | 19.6       | 25.0        | 50.3         |
| 0.564000        | 36.5             | 1000.0          | 9.000           | On     | N    | 19.5       | 9.5         | 46.0         |
| 0.996000        | 29.1             | 1000.0          | 9.000           | On     | N    | 19.6       | 16.9        | 46.0         |
| 1.882500        | 26.8             | 1000.0          | 9.000           | On     | N    | 19.5       | 19.2        | 46.0         |
| 2.238000        | 27.4             | 1000.0          | 9.000           | On     | N    | 19.6       | 18.6        | 46.0         |
| 4.281000        | 26.0             | 1000.0          | 9.000           | On     | N    | 19.7       | 20.0        | 46.0         |

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:



**Fig.59 Conducted Emission(802.11a, IDLE)**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.357000        | 30.5             | 1000.0          | 9.000           | On     | N    | 19.6       | 28.3        | 58.8         |
| 0.591000        | 41.5             | 1000.0          | 9.000           | On     | N    | 19.5       | 14.5        | 56.0         |
| 0.739500        | 32.1             | 1000.0          | 9.000           | On     | N    | 19.4       | 23.9        | 56.0         |
| 1.698000        | 28.7             | 1000.0          | 9.000           | On     | N    | 19.6       | 27.3        | 56.0         |
| 2.274000        | 29.9             | 1000.0          | 9.000           | On     | N    | 19.6       | 26.1        | 56.0         |
| 3.750000        | 27.3             | 1000.0          | 9.000           | On     | N    | 19.6       | 28.7        | 56.0         |

**Final Result 2**

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.339000        | 23.4             | 1000.0          | 9.000           | On     | N    | 19.6       | 25.8        | 49.2         |
| 0.591000        | 36.0             | 1000.0          | 9.000           | On     | N    | 19.5       | 10.0        | 46.0         |
| 0.762000        | 27.3             | 1000.0          | 9.000           | On     | N    | 19.5       | 18.7        | 46.0         |
| 1.702500        | 23.4             | 1000.0          | 9.000           | On     | N    | 19.6       | 22.6        | 46.0         |
| 2.274000        | 24.7             | 1000.0          | 9.000           | On     | N    | 19.6       | 21.3        | 46.0         |
| 3.750000        | 21.3             | 1000.0          | 9.000           | On     | N    | 19.6       | 24.7        | 46.0         |

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

### B.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) 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.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. 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% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

#### Measurement Uncertainty:

|                         |         |
|-------------------------|---------|
| Measurement Uncertainty | 60.80Hz |
|-------------------------|---------|

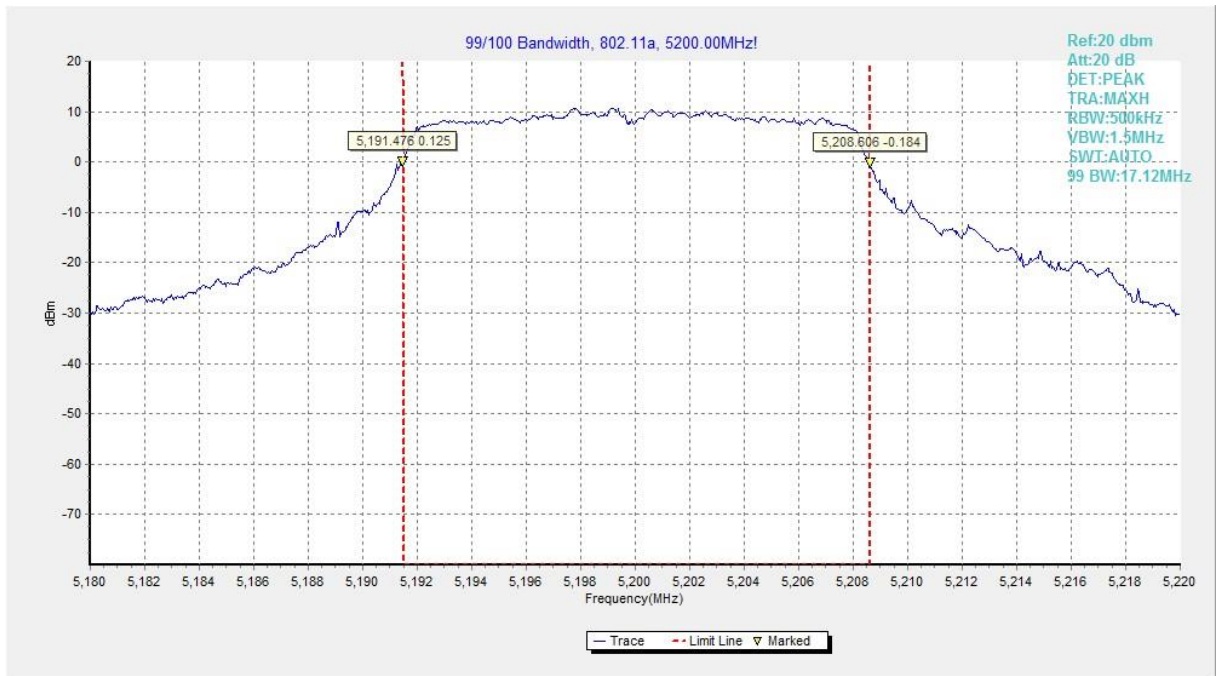
#### Measurement Result:

| Mode             | Frequency | 99% Occupied bandwidth ( MHz) |       | conclusion |
|------------------|-----------|-------------------------------|-------|------------|
| 802.11a          | 5180 MHz  | Fig.60                        | 17.28 | P          |
|                  | 5200 MHz  | Fig.61                        | 17.12 | P          |
|                  | 5240 MHz  | Fig.62                        | 17.17 | P          |
| 802.11n<br>HT20  | 5180 MHz  | Fig.63                        | 18.33 | P          |
|                  | 5200 MHz  | Fig.64                        | 18.26 | P          |
|                  | 5240 MHz  | Fig.65                        | 18.31 | P          |
| 802.11n<br>HT40  | 5190 MHz  | Fig.66                        | 36.32 | P          |
|                  | 5230 MHz  | Fig.67                        | 36.36 | P          |
| 802.11ac<br>HT80 | 5210 MHz  | Fig.68                        | 75.47 | P          |

**Conclusion: PASS**  
**Test graphs as below:**

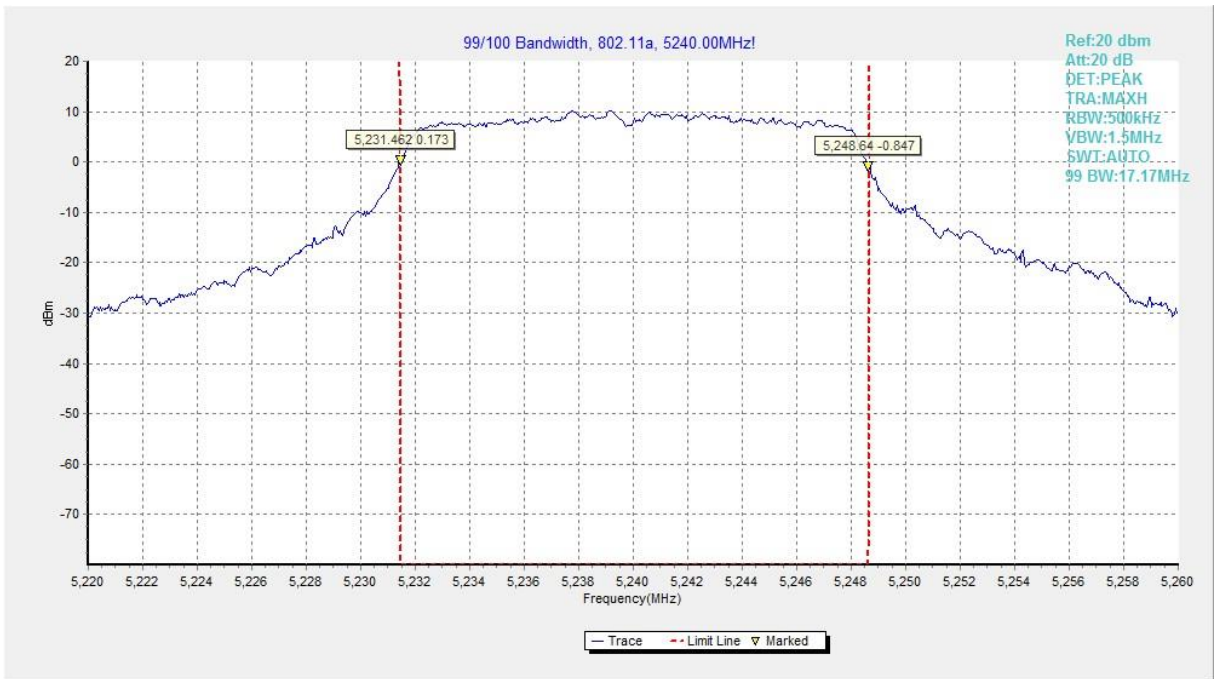


**Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)**

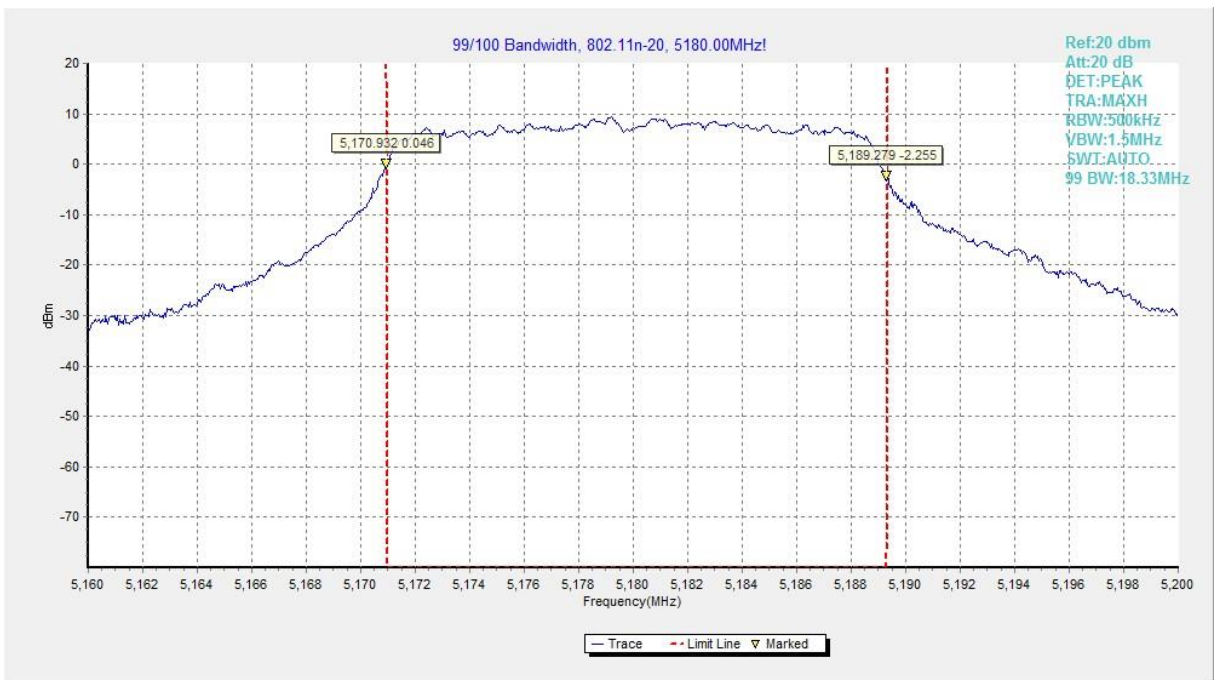


**Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)**

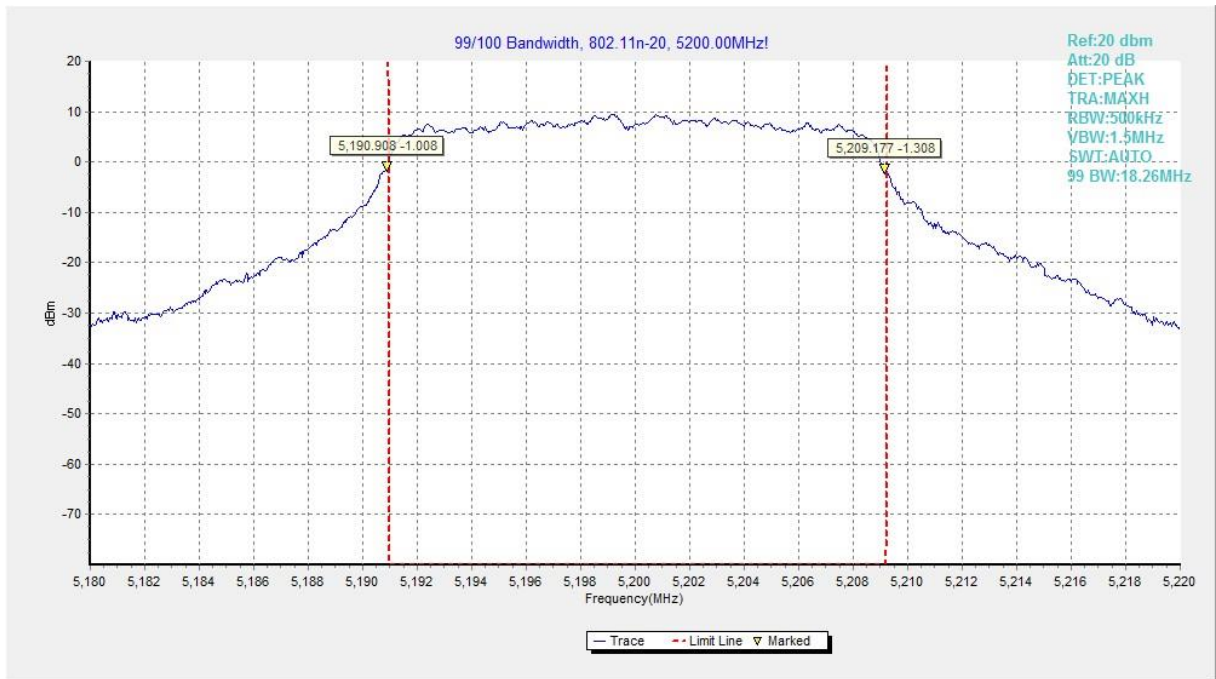




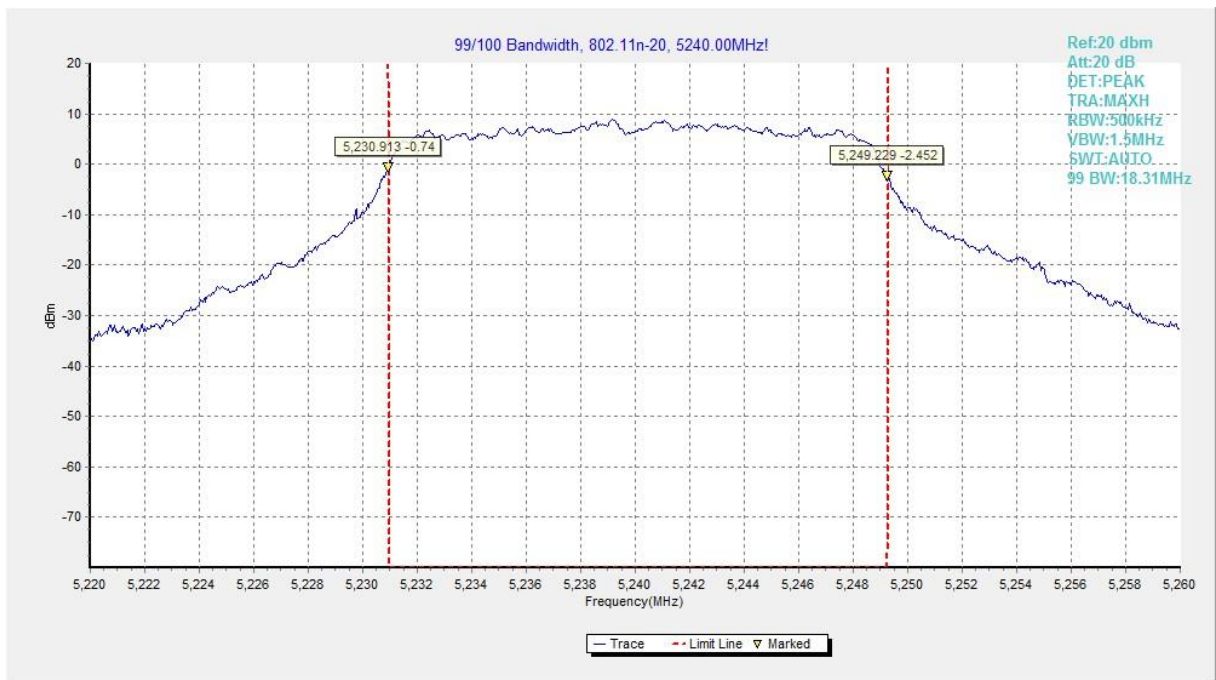
**Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)**



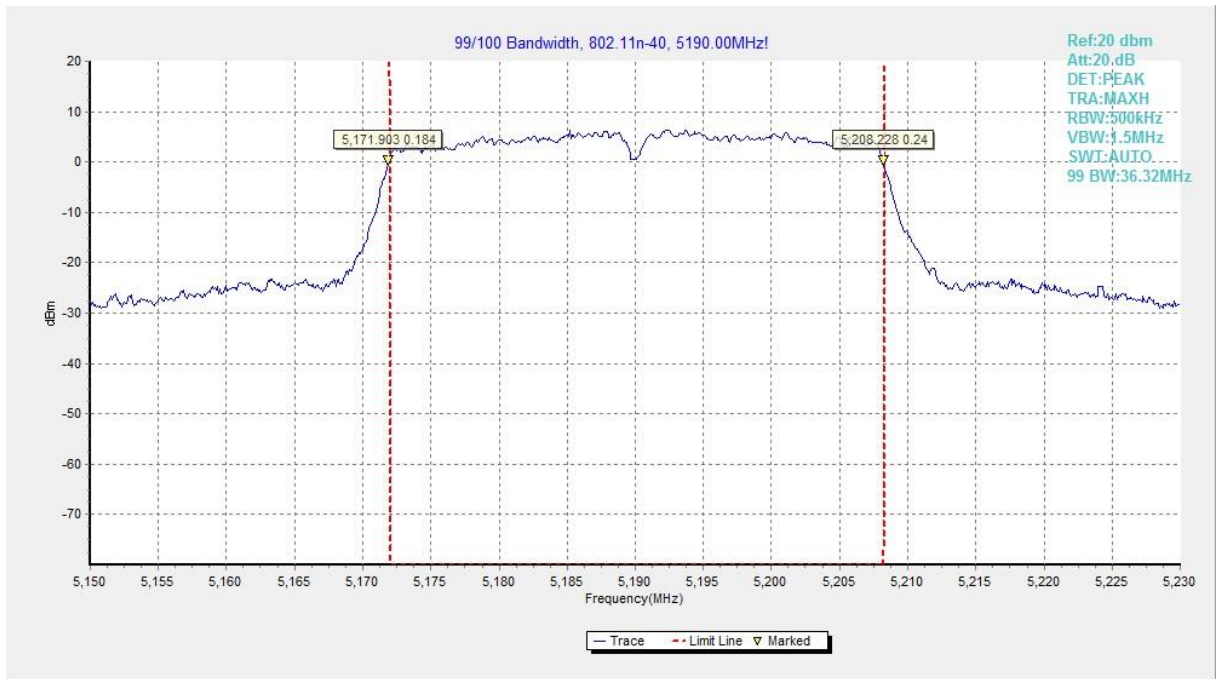
**Fig.63 99% Occupied bandwidth (802.11n-HT20, 5180MHz)**



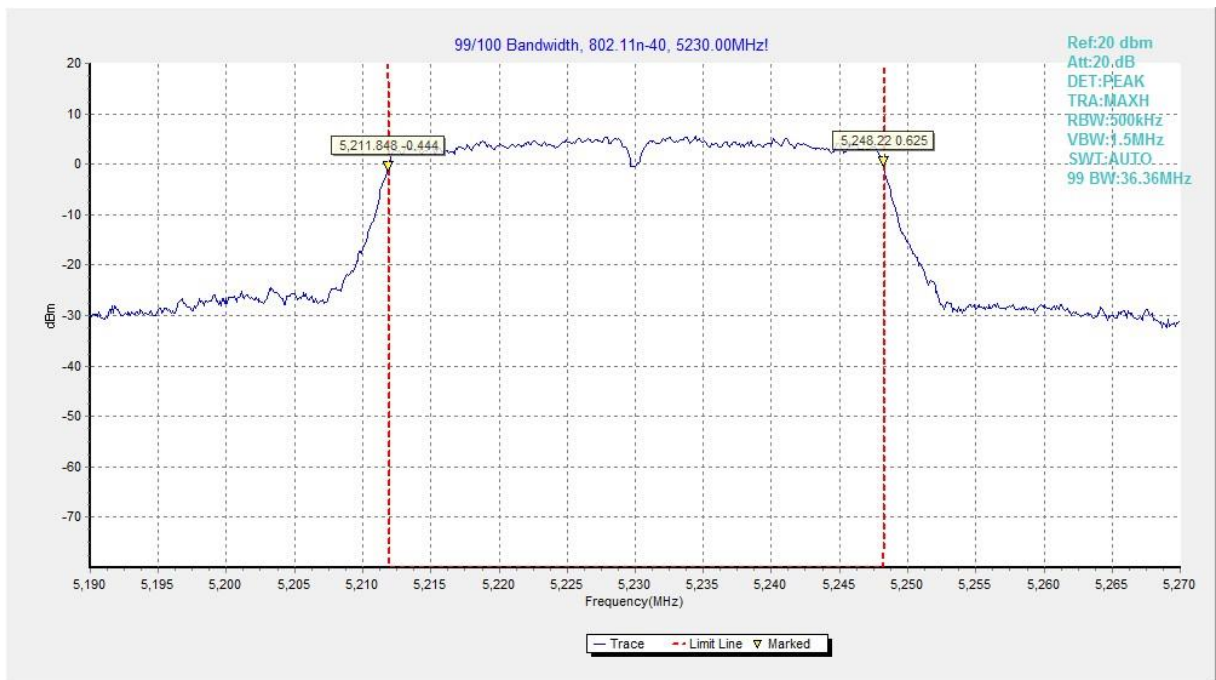
**Fig.64 99% Occupied bandwidth (802.11n-HT20, 5200MHz)**



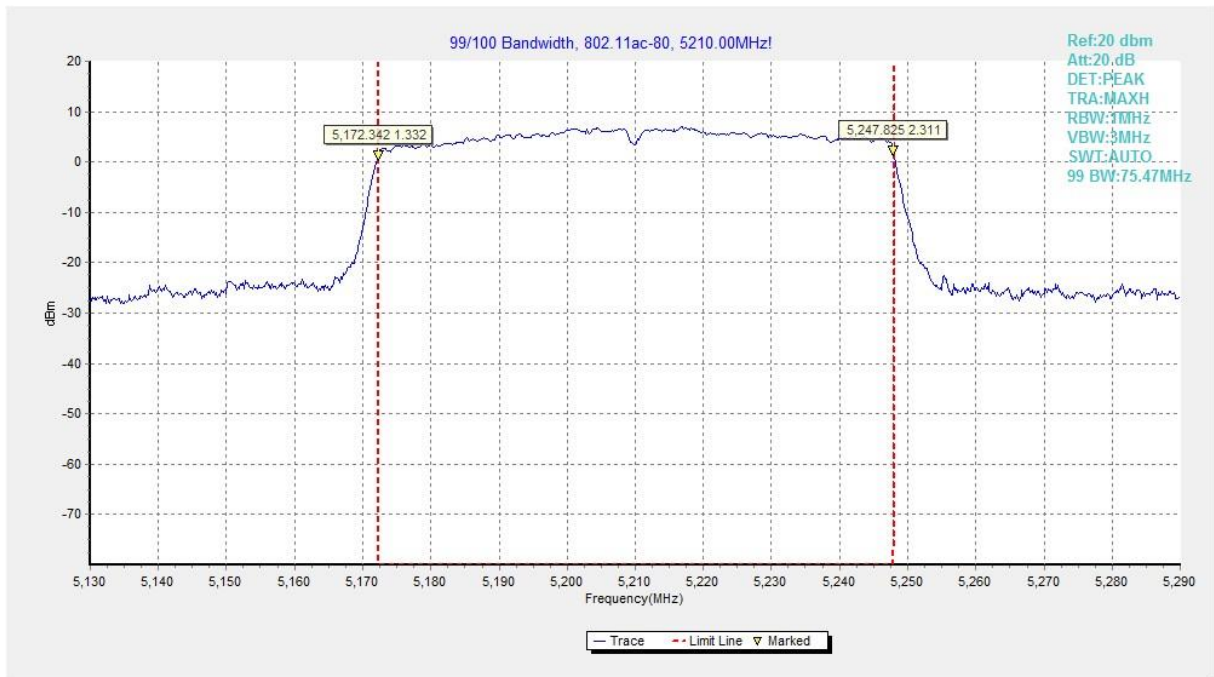
**Fig.65 99% Occupied bandwidth (802.11n-HT20, 5240MHz)**



**Fig.66 99% Occupied bandwidth (802.11n-HT40, 5190MHz)**



**Fig.67 99% Occupied bandwidth (802.11n-HT40, 5230MHz)**






**Fig.68 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)**

## B.9. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

## ANNEX C: Accreditation Certificate

|  |  |
|--|--|
| <p>United States Department of Commerce<br/>National Institute of Standards and Technology</p>    |  |
| <hr/> <h3>Certificate of Accreditation to ISO/IEC 17025:2017</h3> <hr/>  |  |
| <p>NVLAP LAB CODE: 600118-0</p>  |  |
| <p><b>Telecommunication Technology Labs, CAICT</b><br/>Beijing<br/>China</p>   |  |
| <p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services,<br/>listed on the Scope of Accreditation, for:</i></p>   |  |
| <p><b>Electromagnetic Compatibility &amp; Telecommunications</b></p>   |  |
| <p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.<br/>This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality<br/>management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p> |  |
| <hr/> <p>2020-09-29 through 2021-09-30<br/><i>Effective Dates</i></p>  | <br><hr/> <p><i>[Signature]</i><br/>For the National Voluntary Laboratory Accreditation Program</p> |

\*\*\* END OF REPORT BODY \*\*\*