



LOW CH1 (802.11g Mode)/2412

Horizontal:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824                                                          | 57.49          | -3.64  | 53.85          | 74       | -20.15 | peak          |
| 4824                                                          | 45.17          | -3.64  | 41.53          | 54       | -12.47 | AVG           |
| 7236                                                          | 54.52          | -0.95  | 53.57          | 74       | -20.43 | peak          |
| 7236                                                          | 43.13          | -0.95  | 42.18          | 54       | -11.82 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824                                                          | 58.07          | -3.64  | 54.43          | 74       | -19.57 | peak          |
| 4824                                                          | 45.92          | -3.64  | 42.28          | 54       | -11.72 | AVG           |
| 7236                                                          | 56.24          | -0.95  | 55.29          | 74       | -18.71 | peak          |
| 7236                                                          | 42.19          | -0.95  | 41.24          | 54       | -12.76 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |



MID CH6 (802.11g Mode)/2437

Horizontal:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 58.69          | -3.51  | 55.18          | 74       | -18.82 | peak          |
| 4874                                                          | 46.05          | -3.51  | 42.54          | 54       | -11.46 | AVG           |
| 7311                                                          | 56.24          | -0.82  | 55.42          | 74       | -18.58 | peak          |
| 7311                                                          | 42.64          | -0.82  | 41.82          | 54       | -12.18 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 58.56          | -3.51  | 55.05          | 74       | -18.95 | peak          |
| 4874                                                          | 45.28          | -3.51  | 41.77          | 54       | -12.23 | AVG           |
| 7311                                                          | 57.08          | -0.82  | 56.26          | 74       | -17.74 | peak          |
| 7311                                                          | 40.94          | -0.82  | 40.12          | 54       | -13.88 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |



## HIGH CH11 (802.11g Mode)/2462

Horizontal:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924                                                          | 58.79          | -3.43  | 55.36          | 74       | -18.64 | peak          |
| 4924                                                          | 45.65          | -3.43  | 42.22          | 54       | -11.78 | AVG           |
| 7386                                                          | 56.23          | -0.75  | 55.48          | 74       | -18.52 | peak          |
| 7386                                                          | 42.38          | -0.75  | 41.63          | 54       | -12.37 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924                                                          | 57.49          | -3.43  | 54.06          | 74       | -19.94 | peak          |
| 4924                                                          | 47.14          | -3.43  | 43.71          | 54       | -10.29 | AVG           |
| 7386                                                          | 55.73          | -0.75  | 54.98          | 74       | -19.02 | peak          |
| 7386                                                          | 43.49          | -0.75  | 42.74          | 54       | -11.26 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) < 93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) < 54dBuV/m(AV Limit), the Average Detected not need to completed.



LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824                                                          | 56.95          | -3.64  | 53.31          | 74       | -20.69 | peak          |
| 4824                                                          | 40.98          | -3.64  | 37.34          | 54       | -16.66 | AVG           |
| 7236                                                          | 55.76          | -0.95  | 54.81          | 74       | -19.19 | peak          |
| 7236                                                          | 41.61          | -0.95  | 40.66          | 54       | -13.34 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824                                                          | 59.24          | -3.64  | 55.6           | 74       | -18.4  | peak          |
| 4824                                                          | 44.31          | -3.64  | 40.67          | 54       | -13.33 | AVG           |
| 7236                                                          | 56.31          | -0.95  | 55.36          | 74       | -18.64 | peak          |
| 7236                                                          | 43.3           | -0.95  | 42.35          | 54       | -11.65 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |



MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 58.79          | -3.51  | 55.28          | 74.00    | -18.72 | peak          |
| 4874                                                          | 45.01          | -3.51  | 41.50          | 54.00    | -12.50 | AVG           |
| 7311                                                          | 56.32          | -0.82  | 55.50          | 74.00    | -18.50 | peak          |
| 7311                                                          | 43.25          | -0.82  | 42.43          | 54.00    | -11.57 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 58.74          | -3.51  | 55.23          | 74.00    | -18.77 | peak          |
| 4874                                                          | 43.55          | -3.51  | 40.04          | 54.00    | -13.96 | AVG           |
| 7311                                                          | 55.75          | -0.82  | 54.93          | 74.00    | -19.07 | peak          |
| 7311                                                          | 41.70          | -0.82  | 40.88          | 54.00    | -13.12 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |





HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924                                                          | 59.01          | -3.43  | 55.58          | 74       | -18.42 | peak          |
| 4924                                                          | 45.19          | -3.43  | 41.76          | 54       | -12.24 | AVG           |
| 7386                                                          | 56.45          | -0.75  | 55.7           | 74       | -18.3  | peak          |
| 7386                                                          | 40.99          | -0.75  | 40.24          | 54       | -13.76 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924                                                          | 59.35          | -3.43  | 55.92          | 74       | -18.08 | peak          |
| 4924                                                          | 44.6           | -3.43  | 41.17          | 54       | -12.83 | AVG           |
| 7386                                                          | 54.98          | -0.75  | 54.23          | 74       | -19.77 | peak          |
| 7386                                                          | 44.08          | -0.75  | 43.33          | 54       | -10.67 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |



LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4844                                                          | 58.27          | -3.63  | 54.64          | 74       | -19.36 | peak          |
| 4844                                                          | 47.87          | -3.63  | 44.24          | 54       | -9.76  | AVG           |
| 7266                                                          | 56.44          | -0.94  | 55.5           | 74       | -18.5  | peak          |
| 7266                                                          | 41.02          | -0.94  | 40.08          | 54       | -13.92 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4844                                                          | 59.57          | -3.63  | 55.94          | 74       | -18.06 | peak          |
| 4844                                                          | 45.56          | -3.63  | 41.93          | 54       | -12.07 | AVG           |
| 7266                                                          | 56.53          | -0.94  | 55.59          | 74       | -18.41 | peak          |
| 7266                                                          | 40.92          | -0.94  | 39.98          | 54       | -14.02 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |



MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 58.69          | -3.51  | 55.18          | 74       | -18.82 | peak          |
| 4874                                                          | 45.08          | -3.51  | 41.57          | 54       | -12.43 | AVG           |
| 7311                                                          | 56.3           | -0.82  | 55.48          | 74       | -18.52 | peak          |
| 7311                                                          | 40.92          | -0.82  | 40.1           | 54       | -13.9  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 60.68          | -3.51  | 57.17          | 74       | -16.83 | peak          |
| 4874                                                          | 45.06          | -3.51  | 41.55          | 54       | -12.45 | AVG           |
| 7311                                                          | 56.07          | -0.82  | 55.25          | 74       | -18.75 | peak          |
| 7311                                                          | 45.04          | -0.82  | 44.22          | 54       | -9.78  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |





HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4904      | 59.29          | -3.43  | 55.86          | 74       | -18.14 | peak          |
| 4904      | 42.42          | -3.43  | 38.99          | 54       | -15.01 | AVG           |
| 7356      | 55.24          | -0.75  | 54.49          | 74       | -19.51 | peak          |
| 7356      | 42.8           | -0.75  | 42.05          | 54       | -11.95 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4904      | 58.72          | -3.43  | 55.29          | 74       | -18.71 | peak          |
| 4904      | 45.62          | -3.43  | 42.19          | 54       | -11.81 | AVG           |
| 7356      | 57.57          | -0.75  | 56.82          | 74       | -17.18 | peak          |
| 7356      | 44.61          | -0.75  | 43.86          | 54       | -10.14 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

**Test Result of Radiated Spurious at Band edges**

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310.00                                                       | 60.34          | -5.81  | 54.53          | 74       | -19.47 | peak          |
| 2310.00                                                       | 45.85          | -5.81  | 40.04          | 54       | -13.96 | AVG           |
| 2390.00                                                       | 61.54          | -5.84  | 55.7           | 74       | -18.3  | peak          |
| 2390.00                                                       | 45.12          | -5.84  | 39.28          | 54       | -14.72 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310.00                                                       | 60.35          | -5.81  | 54.54          | 74       | -19.46 | peak          |
| 2310.00                                                       | 48.08          | -5.81  | 42.27          | 54       | -11.73 | AVG           |
| 2390.00                                                       | 61.66          | -5.84  | 55.82          | 74       | -18.18 | peak          |
| 2390.00                                                       | 48.89          | -5.84  | 43.05          | 54       | -10.95 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |



Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                       | 60.58          | -5.81  | 54.77          | 74       | -19.23 | peak          |
| 2483.50                                                       | 47.93          | -5.81  | 42.12          | 54       | -11.88 | AVG           |
| 2500.00                                                       | 60.51          | -6.06  | 54.45          | 74       | -19.55 | peak          |
| 2500.00                                                       | 45.68          | -6.06  | 39.62          | 54       | -14.38 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                                                              | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|--------------------------------------------------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                                                                  | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                                                                | 61.35          | -5.81  | 55.54          | 74       | -18.46 | peak          |
| 2483.50                                                                                                | 47.58          | -5.81  | 41.77          | 54       | -12.23 | AVG           |
| 2500.00                                                                                                | 61.34          | -6.06  | 55.28          | 74       | -18.72 | peak          |
| 2500.00                                                                                                | 49.59          | -6.06  | 43.53          | 54       | -10.47 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.                                          |                |        |                |          |        |               |
| Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                |        |                |          |        |               |



Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310.00                                                       | 61.73          | -5.81  | 55.92          | 74       | -18.08 | peak          |
| 2310.00                                                       | 46.85          | -5.81  | 41.04          | 54       | -12.96 | AVG           |
| 2390.00                                                       | 61.45          | -5.84  | 55.61          | 74       | -18.39 | peak          |
| 2390.00                                                       | 45.42          | -5.84  | 39.58          | 54       | -14.42 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310.00                                                       | 62.17          | -5.81  | 56.36          | 74       | -17.64 | peak          |
| 2310.00                                                       | 46.25          | -5.81  | 40.44          | 54       | -13.56 | AVG           |
| 2390.00                                                       | 61.37          | -5.84  | 55.53          | 74       | -18.47 | peak          |
| 2390.00                                                       | 47.28          | -5.84  | 41.44          | 54       | -12.56 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |





Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                       | 59.48          | -5.65  | 53.83          | 74       | -20.17 | peak          |
| 2483.50                                                       | 45.8           | -5.65  | 40.15          | 54       | -13.85 | AVG           |
| 2500.00                                                       | 60.75          | -5.65  | 55.1           | 74       | -18.9  | peak          |
| 2500.00                                                       | 45.14          | -5.65  | 39.49          | 54       | -14.51 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                                                              | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|--------------------------------------------------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                                                                  | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                                                                | 62.38          | -5.65  | 56.73          | 74       | -17.27 | peak          |
| 2483.50                                                                                                | 47.96          | -5.65  | 42.31          | 54       | -11.69 | AVG           |
| 2500.00                                                                                                | 61.34          | -5.65  | 55.69          | 74       | -18.31 | peak          |
| 2500.00                                                                                                | 46.28          | -5.65  | 40.63          | 54       | -13.37 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.                                          |                |        |                |          |        |               |
| Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                |        |                |          |        |               |





Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310.00                                                       | 59.8           | -5.81  | 53.99          | 74       | -20.01 | peak          |
| 2310.00                                                       | 46.61          | -5.81  | 40.8           | 54       | -13.2  | AVG           |
| 2390.00                                                       | 59.92          | -5.84  | 54.08          | 74       | -19.92 | peak          |
| 2390.00                                                       | 47.65          | -5.84  | 41.81          | 54       | -12.19 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310.00                                                       | 62.37          | -5.81  | 56.56          | 74       | -17.44 | peak          |
| 2310.00                                                       | 46.59          | -5.81  | 40.78          | 54       | -13.22 | AVG           |
| 2390.00                                                       | 60.24          | -5.84  | 54.4           | 74       | -19.6  | peak          |
| 2390.00                                                       | 46.82          | -5.84  | 40.98          | 54       | -13.02 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |



Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50   | 60.46          | -5.65  | 54.81          | 74       | -19.19 | peak          |
| 2483.50   | 46.83          | -5.65  | 41.18          | 54       | -12.82 | AVG           |
| 2500.00   | 60.07          | -5.65  | 54.42          | 74       | -19.58 | peak          |
| 2500.00   | 47.49          | -5.65  | 41.84          | 54       | -12.16 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50   | 61.37          | -5.65  | 55.72          | 74       | -18.28 | peak          |
| 2483.50   | 45.89          | -5.65  | 40.24          | 54       | -13.76 | AVG           |
| 2500.00   | 61.25          | -5.65  | 55.6           | 74       | -18.4  | peak          |
| 2500.00   | 46.22          | -5.65  | 40.57          | 54       | -13.43 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310.00                                                       | 58.54          | -5.81  | 52.73          | 74       | -21.27 | peak          |
| 2310.00                                                       | /              | -5.81  | /              | 54       | /      | AVG           |
| 2390.00                                                       | 58.62          | -5.84  | 52.78          | 74       | -21.22 | peak          |
| 2390.00                                                       | /              | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310.00                                                       | 57.98          | -5.81  | 52.17          | 74       | -21.83 | peak          |
| 2310.00                                                       | /              | -5.81  | /              | 54       | /      | AVG           |
| 2390.00                                                       | 58.41          | -5.84  | 52.57          | 74       | -21.43 | peak          |
| 2390.00                                                       | /              | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |



Operation Mode: TX CH High (2452MHz)

Horizontal

| Frequency                                                     | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                       | 58.97          | -5.65  | 53.32          | 74       | -20.68 | peak          |
| 2483.50                                                       | /              | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                       | 56.34          | -5.65  | 50.69          | 74       | -23.31 | peak          |
| 2500.00                                                       | /              | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                |        |                |          |        |               |

Vertical:

| Frequency                                                                                              | Reading Result | Factor | Emission Level | Limits   | Margin | Detector Type |
|--------------------------------------------------------------------------------------------------------|----------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                                                                  | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                                                                | 58.12          | -5.65  | 52.47          | 74       | -21.53 | peak          |
| 2483.50                                                                                                | /              | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                                                                | 57.22          | -5.65  | 51.57          | 74       | -22.43 | peak          |
| 2500.00                                                                                                | /              | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.                                          |                |        |                |          |        |               |
| Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                |        |                |          |        |               |





## 4.8. ANTENNA REQUIREMENT

### Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

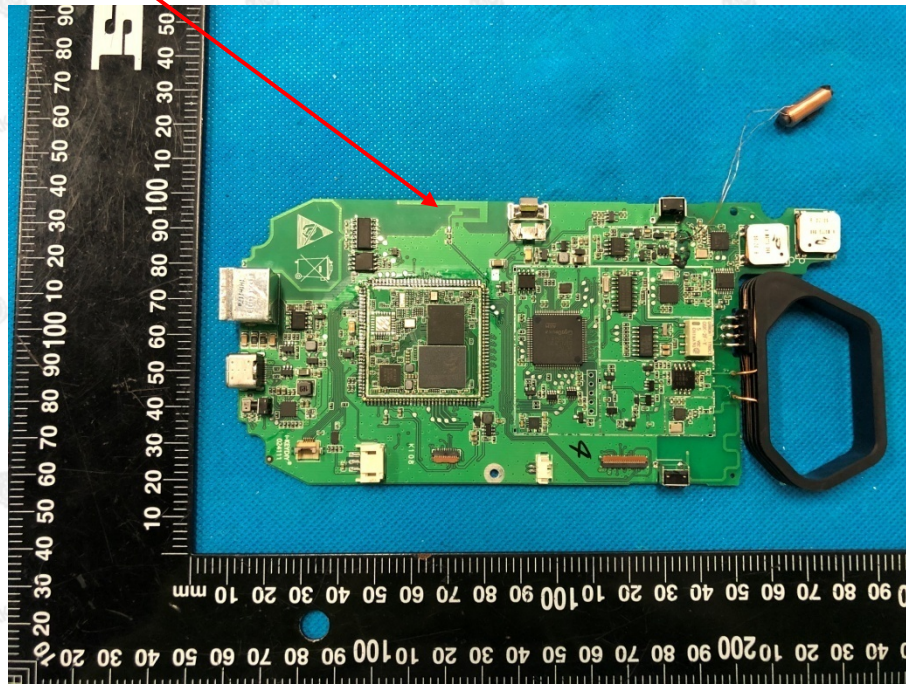
### Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### Antenna Connected Construction

The antenna used in this product is a PCB Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements, The directional gains of antenna used for transmitting is 1dBi.

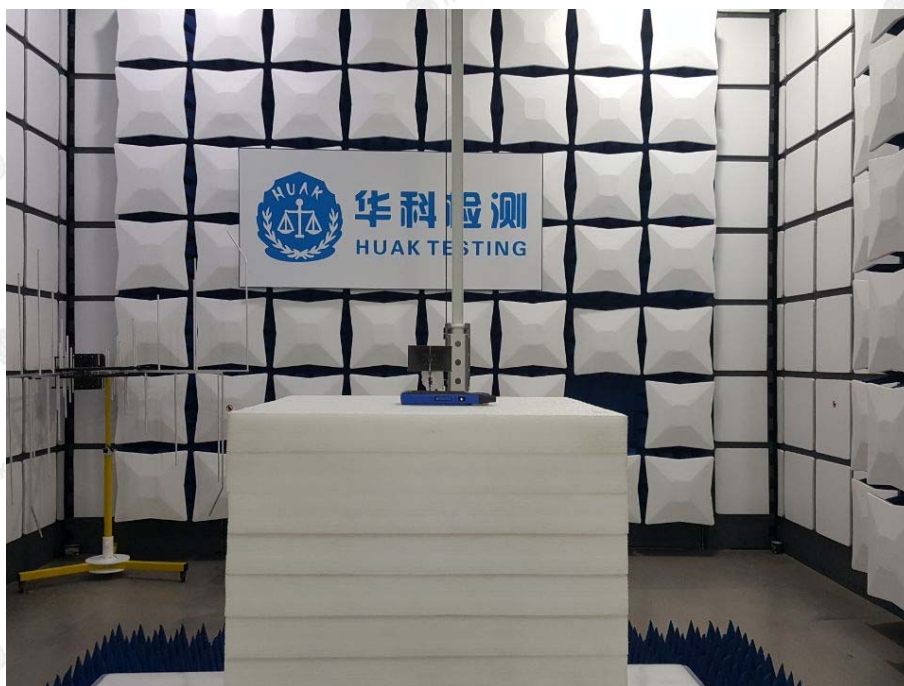
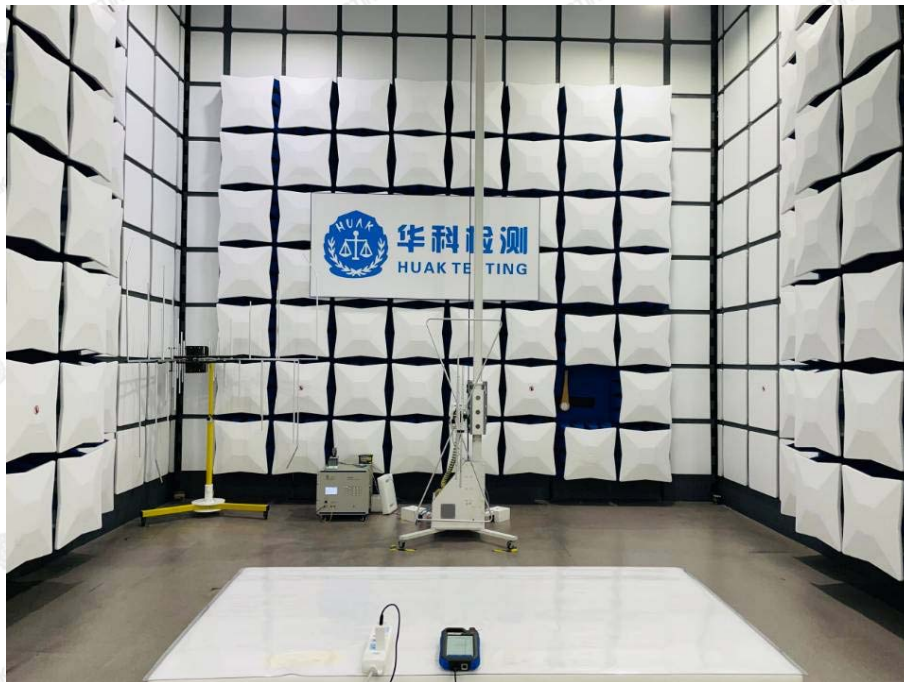
### WIFI ANTENNA







## 4.9. PHOTOGRAPH OF TEST



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#### 4.10. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----