

## ANT0

| Type | 802.11g          | Test channel      | CH01          | Polarity    | Horizontal   |                 |                 |               |        |
|------|------------------|-------------------|---------------|-------------|--------------|-----------------|-----------------|---------------|--------|
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1228.98          | 39.07             | 25.78         | 3.92        | 36.58        | 32.19           | 74.00           | -41.81        | Peak   |
| 2    | 2965.19          | 40.45             | 28.70         | 6.18        | 37.44        | 37.89           | 74.00           | -36.11        | Peak   |
| 3    | 6428.77          | 36.11             | 33.57         | 9.71        | 34.69        | 44.70           | 74.00           | -29.30        | Peak   |
| 4    | 9859.47          | 34.60             | 39.50         | 11.75       | 36.65        | 49.20           | 74.00           | -24.80        | Peak   |
| Type | 802.11g          | Test channel      | CH01          | Polarity    | Vertical     |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1167.98          | 39.84             | 25.47         | 3.82        | 36.71        | 32.42           | 74.00           | -41.58        | Peak   |
| 2    | 3168.08          | 40.24             | 28.96         | 6.41        | 37.12        | 38.49           | 74.00           | -35.51        | Peak   |
| 3    | 5791.65          | 36.29             | 31.98         | 9.59        | 34.86        | 43.00           | 74.00           | -31.00        | Peak   |
| 4    | 8063.40          | 33.60             | 37.20         | 11.08       | 33.32        | 48.56           | 74.00           | -25.44        | Peak   |
| Type | 802.11g          | Test channel      | CH06          | Polarity    | Horizontal   |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1323.14          | 38.94             | 26.14         | 4.06        | 36.35        | 32.79           | 74.00           | -41.21        | Peak   |
| 2    | 3795.66          | 39.87             | 29.59         | 7.12        | 37.06        | 39.52           | 74.00           | -34.48        | Peak   |
| 3    | 6494.56          | 36.99             | 33.97         | 9.73        | 34.74        | 45.95           | 74.00           | -28.05        | Peak   |
| 4    | 9734.78          | 34.22             | 39.60         | 11.68       | 36.41        | 49.09           | 74.00           | -24.91        | Peak   |
| Type | 802.11g          | Test channel      | CH06          | Polarity    | Vertical     |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1159.10          | 40.05             | 25.44         | 3.80        | 36.74        | 32.55           | 74.00           | -41.45        | Peak   |
| 2    | 3168.08          | 42.80             | 28.96         | 6.41        | 37.12        | 41.05           | 74.00           | -32.95        | Peak   |
| 3    | 6494.56          | 36.65             | 33.97         | 9.73        | 34.74        | 45.61           | 74.00           | -28.39        | Peak   |
| 4    | 9228.06          | 35.32             | 38.91         | 11.57       | 36.04        | 49.76           | 74.00           | -24.24        | Peak   |
| Type | 802.11g          | Test channel      | CH11          | Polarity    | Horizontal   |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1306.41          | 38.39             | 26.04         | 4.04        | 36.31        | 32.16           | 74.00           | -41.84        | Peak   |
| 2    | 4024.52          | 38.17             | 29.95         | 7.40        | 36.29        | 39.23           | 74.00           | -34.77        | Peak   |
| 3    | 6577.75          | 37.96             | 34.26         | 9.78        | 34.62        | 47.38           | 74.00           | -26.62        | Peak   |
| 4    | 9734.78          | 33.82             | 39.60         | 11.68       | 36.41        | 48.69           | 74.00           | -25.31        | Peak   |
| Type | 802.11g          | Test channel      | CH11          | Polarity    | Vertical     |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1296.47          | 38.94             | 25.99         | 4.02        | 36.30        | 32.65           | 74.00           | -41.35        | Peak   |
| 2    | 3168.08          | 40.97             | 28.96         | 6.41        | 37.12        | 39.22           | 74.00           | -34.78        | Peak   |
| 3    | 6561.03          | 37.38             | 34.22         | 9.77        | 34.65        | 46.72           | 74.00           | -27.28        | Peak   |
| 4    | 10191.20         | 34.46             | 39.59         | 12.41       | 37.60        | 48.86           | 74.00           | -25.14        | Peak   |

## ANT1

| Type | 802.11g          | Test channel      | CH01          | Polarity    | Horizontal   |                 |                 |               |        |
|------|------------------|-------------------|---------------|-------------|--------------|-----------------|-----------------|---------------|--------|
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1273.57          | 38.05             | 25.95         | 3.99        | 36.40        | 31.59           | 74.00           | -42.41        | Peak   |
| 2    | 3552.58          | 38.37             | 29.31         | 6.85        | 36.80        | 37.73           | 74.00           | -36.27        | Peak   |
| 3    | 4821.76          | 36.21             | 31.40         | 8.50        | 35.24        | 40.87           | 74.00           | -33.13        | Peak   |
| 4    | 8063.40          | 32.94             | 37.20         | 11.08       | 33.32        | 47.90           | 74.00           | -26.10        | Peak   |
| Type | 802.11g          | Test channel      | CH01          | Polarity    | Vertical     |                 |                 |               |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1289.89          | 38.26             | 25.98         | 4.01        | 36.33        | 31.92           | 74.00           | -42.08        | Peak   |
| 2    | 3168.08          | 40.55             | 28.96         | 6.41        | 37.12        | 38.80           | 74.00           | -35.20        | Peak   |
| 3    | 5352.19          | 36.01             | 31.51         | 9.44        | 35.36        | 41.60           | 74.00           | -32.40        | Peak   |
| 4    | 7941.19          | 33.47             | 36.88         | 10.85       | 33.32        | 47.88           | 74.00           | -26.12        | Peak   |
| Type | 802.11g          | Test channel      | CH06          | Polarity    | Horizontal   |                 |                 |               |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1413.67          | 38.61             | 26.10         | 4.19        | 36.64        | 32.26           | 74.00           | -41.74        | Peak   |
| 2    | 4014.29          | 38.02             | 29.93         | 7.39        | 36.31        | 39.03           | 74.00           | -34.97        | Peak   |
| 3    | 6494.56          | 36.69             | 33.97         | 9.73        | 34.74        | 45.65           | 74.00           | -28.35        | Peak   |
| 4    | 8042.90          | 33.43             | 37.19         | 11.02       | 33.31        | 48.33           | 74.00           | -25.67        | Peak   |
| Type | 802.11g          | Test channel      | CH06          | Polarity    | Vertical     |                 |                 |               |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1346.93          | 38.19             | 26.28         | 4.10        | 36.42        | 32.15           | 74.00           | -41.85        | Peak   |
| 2    | 3690.85          | 39.05             | 29.40         | 7.00        | 37.04        | 38.41           | 74.00           | -35.59        | Peak   |
| 3    | 5047.83          | 36.44             | 32.19         | 8.87        | 35.37        | 42.13           | 74.00           | -31.87        | Peak   |
| 4    | 8083.96          | 32.87             | 37.20         | 11.15       | 33.32        | 47.90           | 74.00           | -26.10        | Peak   |
| Type | 802.11g          | Test channel      | CH11          | Polarity    | Horizontal   |                 |                 |               |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1241.56          | 39.23             | 25.85         | 3.94        | 36.53        | 32.49           | 74.00           | -41.51        | Peak   |
| 2    | 3795.66          | 39.45             | 29.59         | 7.12        | 37.06        | 39.10           | 74.00           | -34.90        | Peak   |
| 3    | 6577.75          | 36.42             | 34.26         | 9.78        | 34.62        | 45.84           | 74.00           | -28.16        | Peak   |
| 4    | 9834.41          | 34.98             | 39.53         | 11.65       | 36.42        | 49.74           | 74.00           | -24.26        | Peak   |
| Type | 802.11g          | Test channel      | CH11          | Polarity    | Vertical     |                 |                 |               |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1135.73          | 39.79             | 25.40         | 3.76        | 36.82        | 32.13           | 74.00           | -41.87        | Peak   |
| 2    | 3367.66          | 40.25             | 28.47         | 6.66        | 36.92        | 38.46           | 74.00           | -35.54        | Peak   |
| 3    | 6577.75          | 37.97             | 34.26         | 9.78        | 34.62        | 47.39           | 74.00           | -26.61        | Peak   |
| 4    | 9734.78          | 34.00             | 39.60         | 11.68       | 36.41        | 48.87           | 74.00           | -25.13        | Peak   |

## MIMO

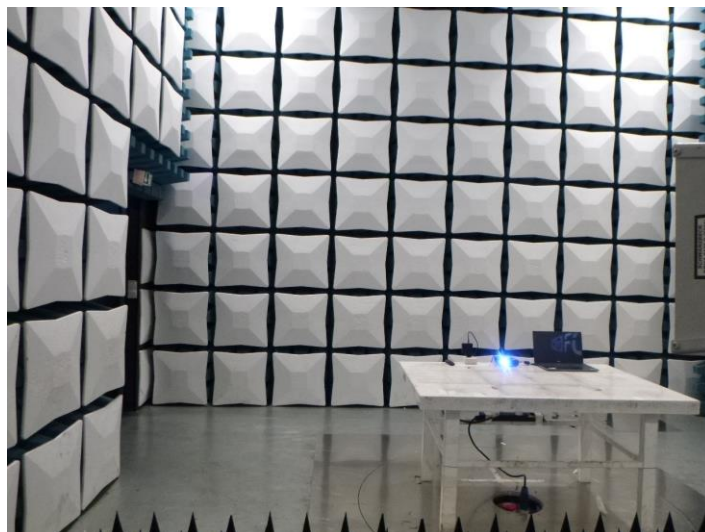
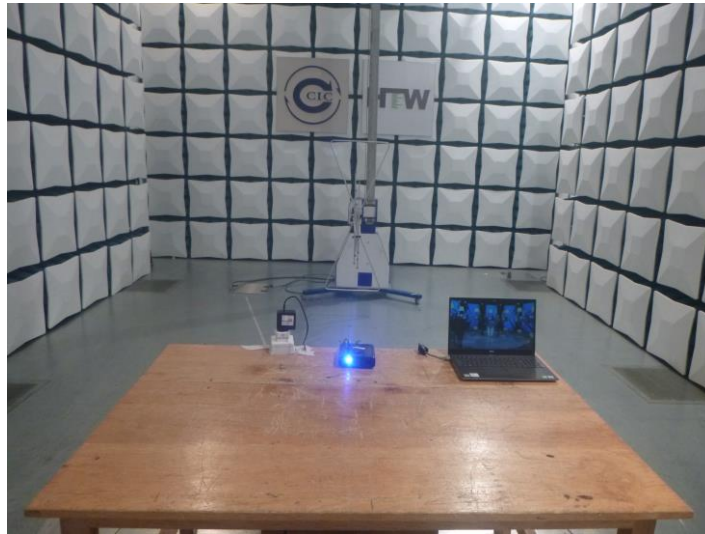
| Type | 802.11n(HT20)    |                   | Test channel  | CH01        |              | Polarity        |                 | Horizontal    |        |
|------|------------------|-------------------|---------------|-------------|--------------|-----------------|-----------------|---------------|--------|
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1597.40          | 39.50             | 25.41         | 4.47        | 37.12        | 32.26           | 74.00           | -41.74        | Peak   |
| 2    | 4821.76          | 37.21             | 31.40         | 8.50        | 35.24        | 41.87           | 74.00           | -32.13        | Peak   |
| 3    | 6428.77          | 35.63             | 33.57         | 9.71        | 34.69        | 44.22           | 74.00           | -29.78        | Peak   |
| 4    | 9685.35          | 35.45             | 39.54         | 11.79       | 36.65        | 50.13           | 74.00           | -23.87        | Peak   |
| Type | 802.11n(HT20)    |                   | Test channel  | CH01        |              | Polarity        |                 | Vertical      |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1303.09          | 39.08             | 26.02         | 4.03        | 36.30        | 32.83           | 74.00           | -41.17        | Peak   |
| 2    | 3168.08          | 40.18             | 28.96         | 6.41        | 37.12        | 38.43           | 74.00           | -35.57        | Peak   |
| 3    | 6428.77          | 36.01             | 33.57         | 9.71        | 34.69        | 44.60           | 74.00           | -29.40        | Peak   |
| 4    | 8042.90          | 34.42             | 37.19         | 11.02       | 33.31        | 49.32           | 74.00           | -24.68        | Peak   |
| Type | 802.11n(HT20)    |                   | Test channel  | CH06        |              | Polarity        |                 | Horizontal    |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1329.89          | 38.78             | 26.18         | 4.07        | 36.37        | 32.66           | 74.00           | -41.34        | Peak   |
| 2    | 3795.66          | 39.62             | 29.59         | 7.12        | 37.06        | 39.27           | 74.00           | -34.73        | Peak   |
| 3    | 6494.56          | 36.67             | 33.97         | 9.73        | 34.74        | 45.63           | 74.00           | -28.37        | Peak   |
| 4    | 9759.59          | 34.82             | 39.60         | 11.62       | 36.29        | 49.75           | 74.00           | -24.25        | Peak   |
| Type | 802.11n(HT20)    |                   | Test channel  | CH06        |              | Polarity        |                 | Vertical      |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1323.14          | 38.19             | 26.14         | 4.06        | 36.35        | 32.04           | 74.00           | -41.96        | Peak   |
| 2    | 4138.80          | 37.76             | 30.00         | 7.55        | 36.25        | 39.06           | 74.00           | -34.94        | Peak   |
| 3    | 6494.56          | 35.50             | 33.97         | 9.73        | 34.74        | 44.46           | 74.00           | -29.54        | Peak   |
| 4    | 9909.80          | 34.86             | 39.52         | 11.95       | 37.10        | 49.23           | 74.00           | -24.77        | Peak   |
| Type | 802.11n(HT20)    |                   | Test channel  | CH11        |              | Polarity        |                 | Horizontal    |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1313.08          | 38.37             | 26.08         | 4.05        | 36.33        | 32.17           | 74.00           | -41.83        | Peak   |
| 2    | 3367.66          | 39.82             | 28.47         | 6.66        | 36.92        | 38.03           | 74.00           | -35.97        | Peak   |
| 3    | 6577.75          | 36.74             | 34.26         | 9.78        | 34.62        | 46.16           | 74.00           | -27.84        | Peak   |
| 4    | 8083.96          | 33.30             | 37.20         | 11.15       | 33.32        | 48.33           | 74.00           | -25.67        | Peak   |
| Type | 802.11n(HT20)    |                   | Test channel  | CH11        |              | Polarity        |                 | Vertical      |        |
|      |                  |                   |               |             |              |                 |                 |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1115.67          | 39.98             | 25.40         | 3.72        | 36.86        | 32.24           | 74.00           | -41.76        | Peak   |
| 2    | 3168.08          | 41.09             | 28.96         | 6.41        | 37.12        | 39.34           | 74.00           | -34.66        | Peak   |
| 3    | 6577.75          | 37.15             | 34.26         | 9.78        | 34.62        | 46.57           | 74.00           | -27.43        | Peak   |
| 4    | 8022.46          | 33.47             | 37.14         | 10.95       | 33.31        | 48.25           | 74.00           | -25.75        | Peak   |

## MIMO

| Type | 802.11n(HT40)    |                   | Test channel  | CH03        |              | Polarity        | Horizontal      |               |        |
|------|------------------|-------------------|---------------|-------------|--------------|-----------------|-----------------|---------------|--------|
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1147.35          | 39.96             | 25.40         | 3.78        | 36.78        | 32.36           | 74.00           | -41.64        | Peak   |
| 2    | 3893.52          | 38.52             | 29.80         | 7.30        | 36.74        | 38.88           | 74.00           | -35.12        | Peak   |
| 3    | 6461.58          | 36.10             | 33.77         | 9.72        | 34.71        | 44.88           | 74.00           | -29.12        | Peak   |
| 4    | 8063.40          | 33.60             | 37.20         | 11.08       | 33.32        | 48.56           | 74.00           | -25.44        | Peak   |
| Type | 802.11n(HT40)    |                   | Test channel  | CH03        |              | Polarity        | Vertical        |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1087.63          | 40.68             | 25.35         | 3.68        | 36.91        | 32.80           | 74.00           | -41.20        | Peak   |
| 2    | 4883.52          | 36.52             | 31.40         | 8.67        | 35.18        | 41.41           | 74.00           | -32.59        | Peak   |
| 3    | 6461.58          | 37.03             | 33.77         | 9.72        | 34.71        | 45.81           | 74.00           | -28.19        | Peak   |
| 4    | 8063.40          | 33.35             | 37.20         | 11.08       | 33.32        | 48.31           | 74.00           | -25.69        | Peak   |
| Type | 802.11n(HT40)    |                   | Test channel  | CH06        |              | Polarity        | Horizontal      |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1204.21          | 39.18             | 25.63         | 3.88        | 36.64        | 32.05           | 74.00           | -41.95        | Peak   |
| 2    | 4846.37          | 37.74             | 31.40         | 8.57        | 35.17        | 42.54           | 74.00           | -31.46        | Peak   |
| 3    | 8083.96          | 33.15             | 37.20         | 11.15       | 33.32        | 48.18           | 74.00           | -25.82        | Peak   |
| 4    | 11370.05         | 33.51             | 40.54         | 12.68       | 36.45        | 50.28           | 74.00           | -23.72        | Peak   |
| Type | 802.11n(HT40)    |                   | Test channel  | CH06        |              | Polarity        | Vertical        |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1431.78          | 38.53             | 26.10         | 4.22        | 36.71        | 32.14           | 74.00           | -41.86        | Peak   |
| 2    | 4748.67          | 37.31             | 31.40         | 8.31        | 35.52        | 41.50           | 74.00           | -32.50        | Peak   |
| 3    | 6511.12          | 36.44             | 34.04         | 9.74        | 34.72        | 45.50           | 74.00           | -28.50        | Peak   |
| 4    | 8104.56          | 33.24             | 37.18         | 11.21       | 33.33        | 48.30           | 74.00           | -25.70        | Peak   |
| Type | 802.11n(HT40)    |                   | Test channel  | CH09        |              | Polarity        | Horizontal      |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1213.44          | 39.56             | 25.68         | 3.89        | 36.63        | 32.50           | 74.00           | -41.50        | Peak   |
| 2    | 3795.66          | 39.23             | 29.59         | 7.12        | 37.06        | 38.88           | 74.00           | -35.12        | Peak   |
| 3    | 5297.97          | 37.15             | 31.40         | 9.42        | 35.41        | 42.56           | 74.00           | -31.44        | Peak   |
| 4    | 8063.40          | 33.10             | 37.20         | 11.08       | 33.32        | 48.06           | 74.00           | -25.94        | Peak   |
| Type | 802.11n(HT40)    |                   | Test channel  | CH09        |              | Polarity        | Vertical        |               |        |
| Mark | Frequency<br>MHz | Reading<br>dBuV/m | Antenna<br>dB | Cable<br>dB | Preamp<br>dB | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>limit | Remark |
| 1    | 1198.10          | 39.15             | 25.59         | 3.87        | 36.65        | 31.96           | 74.00           | -42.04        | Peak   |
| 2    | 3367.66          | 42.78             | 28.47         | 6.66        | 36.92        | 40.99           | 74.00           | -33.01        | Peak   |
| 3    | 6544.35          | 37.13             | 34.18         | 9.76        | 34.67        | 46.40           | 74.00           | -27.60        | Peak   |
| 4    | 8022.46          | 34.10             | 37.14         | 10.95       | 33.31        | 48.88           | 74.00           | -25.12        | Peak   |

## 6. TEST SETUP PHOTOS

### Radiated Emission



AC Conducted Emission



## **7. EXTERANAL AND INTERNAL PHOTOS**

Reference to the test report No. : CHTEW21090107.

## **8. APPENDIX REPORT**