



## Appendix B. Radiated Spurious Emission

|                 |                                      |                     |             |
|-----------------|--------------------------------------|---------------------|-------------|
| Test Engineer : | Kyle Jhuang, Wilson Wu and Alex Jeng | Temperature :       | 24.5~25.0°C |
|                 |                                      | Relative Humidity : | 50~58%      |

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

| WIFI Ant. 1                 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamplifier Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. ( P/A ) | Pol. ( H/V ) |
|-----------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------------|----------------|-------------------|-------------------|--------------|
| 802.11b<br>CH 01<br>2412MHz |      | 2373.21           | 52.39            | -21.61            | 74                    | 49.6                | 27.11                   | 6.96              | 31.28                      | 100            | 154               | P                 | H            |
|                             |      | 2384.65           | 42.18            | -11.82            | 54                    | 39.39               | 27.11                   | 6.96              | 31.28                      | 100            | 154               | A                 | H            |
|                             | *    | 2412              | 95.41            | -                 | -                     | 92.49               | 27.19                   | 7                 | 31.27                      | 100            | 154               | P                 | H            |
|                             | *    | 2412              | 92.12            | -                 | -                     | 89.2                | 27.19                   | 7                 | 31.27                      | 100            | 154               | A                 | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                            |                |                   |                   | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                            |                |                   |                   | H            |
|                             |      | 2369.85           | 53.71            | -20.29            | 74                    | 50.92               | 27.11                   | 6.96              | 31.28                      | 107            | 235               | P                 | V            |
|                             |      | 2390              | 42.46            | -11.54            | 54                    | 39.6                | 27.15                   | 6.98              | 31.27                      | 107            | 235               | A                 | V            |
|                             | *    | 2412              | 103.22           | -                 | -                     | 100.3               | 27.19                   | 7                 | 31.27                      | 107            | 235               | P                 | V            |
|                             | *    | 2412              | 99.96            | -                 | -                     | 97.04               | 27.19                   | 7                 | 31.27                      | 107            | 235               | A                 | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                            |                |                   |                   | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                            |                |                   |                   | V            |
| 802.11b<br>CH 06<br>2437MHz |      | 2359.7            | 53.11            | -20.89            | 74                    | 50.4                | 27.07                   | 6.93              | 31.29                      | 111            | 154               | P                 | H            |
|                             |      | 2387.7            | 42.01            | -11.99            | 54                    | 39.16               | 27.15                   | 6.98              | 31.28                      | 111            | 154               | A                 | H            |
|                             | *    | 2437              | 94.35            | -                 | -                     | 91.3                | 27.28                   | 7.03              | 31.26                      | 111            | 154               | P                 | H            |
|                             | *    | 2437              | 91.15            | -                 | -                     | 88.1                | 27.28                   | 7.03              | 31.26                      | 111            | 154               | A                 | H            |
|                             |      | 2496.92           | 53.08            | -20.92            | 74                    | 49.83               | 27.4                    | 7.09              | 31.24                      | 111            | 154               | P                 | H            |
|                             |      | 2486.98           | 42.51            | -11.49            | 54                    | 39.33               | 27.36                   | 7.07              | 31.25                      | 111            | 154               | A                 | H            |
|                             |      | 2341.92           | 52.01            | -21.99            | 74                    | 49.36               | 27.03                   | 6.91              | 31.29                      | 105            | 216               | P                 | V            |
|                             |      | 2389.94           | 42.11            | -11.89            | 54                    | 39.25               | 27.15                   | 6.98              | 31.27                      | 105            | 216               | A                 | V            |
|                             | *    | 2437              | 103.64           | -                 | -                     | 100.59              | 27.28                   | 7.03              | 31.26                      | 105            | 216               | P                 | V            |
|                             | *    | 2437              | 100.38           | -                 | -                     | 97.33               | 27.28                   | 7.03              | 31.26                      | 105            | 216               | A                 | V            |
|                             |      | 2485.79           | 53.11            | -20.89            | 74                    | 49.93               | 27.36                   | 7.07              | 31.25                      | 105            | 216               | P                 | V            |
|                             |      | 2489.5            | 42.5             | -11.5             | 54                    | 39.26               | 27.4                    | 7.09              | 31.25                      | 105            | 216               | A                 | V            |



| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11b<br>CH 11<br>2462MHz | *                                                                                           | 2462                 | 95.28               | -                       | -                           | 92.17                     | 27.32                         | 7.05                    | 31.26                      | 100                  | 135                     | P                     | H             |
|                             | *                                                                                           | 2462                 | 92.06               | -                       | -                           | 88.95                     | 27.32                         | 7.05                    | 31.26                      | 100                  | 135                     | A                     | H             |
|                             |                                                                                             | 2495.84              | 52.77               | -21.23                  | 74                          | 49.52                     | 27.4                          | 7.09                    | 31.24                      | 100                  | 135                     | P                     | H             |
|                             |                                                                                             | 2487.76              | 42.48               | -11.52                  | 54                          | 39.24                     | 27.4                          | 7.09                    | 31.25                      | 100                  | 135                     | A                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             | *                                                                                           | 2462                 | 102.18              | -                       | -                           | 99.07                     | 27.32                         | 7.05                    | 31.26                      | 101                  | 215                     | P                     | V             |
|                             | *                                                                                           | 2462                 | 98.87               | -                       | -                           | 95.76                     | 27.32                         | 7.05                    | 31.26                      | 101                  | 215                     | A                     | V             |
|                             |                                                                                             | 2483.88              | 53.21               | -20.79                  | 74                          | 50.03                     | 27.36                         | 7.07                    | 31.25                      | 101                  | 215                     | P                     | V             |
|                             |                                                                                             | 2486.44              | 43.26               | -10.74                  | 54                          | 40.08                     | 27.36                         | 7.07                    | 31.25                      | 101                  | 215                     | A                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       |               |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11b<br>CH 01<br>2412MHz |                                                                                             | 4824                 | 43.26               | -30.74                  | 74                          | 58.51                     | 31.22                         | 10.07                   | 56.54                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             | 4824                 | 41.68               | -32.32                  | 74                          | 56.93                     | 31.22                         | 10.07                   | 56.54                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| 802.11b<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 45.09               | -28.91                  | 74                          | 60.14                     | 31.31                         | 10.11                   | 56.47                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 7311                 | 42.17               | -31.83                  | 74                          | 50.57                     | 36.27                         | 12.53                   | 57.2                       | 100                  | 0                       | P                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             | 4874                 | 41.89               | -32.11                  | 74                          | 56.94                     | 31.31                         | 10.11                   | 56.47                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 7311                 | 42.27               | -31.73                  | 74                          | 50.67                     | 36.27                         | 12.53                   | 57.2                       | 100                  | 0                       | P                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| 802.11b<br>CH 11<br>2462MHz |                                                                                             | 4924                 | 41.15               | -32.85                  | 74                          | 56.02                     | 31.39                         | 10.14                   | 56.4                       | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 7386                 | 44.46               | -29.54                  | 74                          | 52.55                     | 36.51                         | 12.73                   | 57.33                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             | 4924                 | 39.58               | -34.42                  | 74                          | 54.45                     | 31.39                         | 10.14                   | 56.4                       | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 7386                 | 42.88               | -31.12                  | 74                          | 50.97                     | 36.51                         | 12.73                   | 57.33                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       |               |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Band Edge @ 3m)

| WIFI<br>Ant.<br>1           | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11g<br>CH 01<br>2412MHz |      | 2389.9               | 57.12               | -16.88                  | 74                          | 54.26                     | 27.15                         | 6.98                    | 31.27                      | 100                  | 168                     | P                       | H               |
|                             |      | 2389.9               | 45.07               | -8.93                   | 54                          | 42.21                     | 27.15                         | 6.98                    | 31.27                      | 100                  | 168                     | A                       | H               |
|                             | *    | 2412                 | 98.23               | -                       | -                           | 95.31                     | 27.19                         | 7                       | 31.27                      | 100                  | 168                     | P                       | H               |
|                             | *    | 2412                 | 90.42               | -                       | -                           | 87.5                      | 27.19                         | 7                       | 31.27                      | 100                  | 168                     | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |      | 2389.59              | 60.61               | -13.39                  | 74                          | 57.76                     | 27.15                         | 6.98                    | 31.28                      | 164                  | 345                     | P                       | V               |
|                             |      | 2389.9               | 48.44               | -5.56                   | 54                          | 45.58                     | 27.15                         | 6.98                    | 31.27                      | 164                  | 345                     | A                       | V               |
|                             | *    | 2412                 | 104.42              | -                       | -                           | 101.5                     | 27.19                         | 7                       | 31.27                      | 164                  | 345                     | P                       | V               |
|                             | *    | 2412                 | 96.69               | -                       | -                           | 93.77                     | 27.19                         | 7                       | 31.27                      | 164                  | 345                     | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 06<br>2437MHz |      | 2350.88              | 52.32               | -21.68                  | 74                          | 49.67                     | 27.03                         | 6.91                    | 31.29                      | 100                  | 167                     | P                       | H               |
|                             |      | 2381.12              | 42.65               | -11.35                  | 54                          | 39.86                     | 27.11                         | 6.96                    | 31.28                      | 100                  | 167                     | A                       | H               |
|                             | *    | 2437                 | 98.22               | -                       | -                           | 95.17                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 167                     | P                       | H               |
|                             | *    | 2437                 | 90.19               | -                       | -                           | 87.14                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 167                     | A                       | H               |
|                             |      | 2493.56              | 53.29               | -20.71                  | 74                          | 50.04                     | 27.4                          | 7.09                    | 31.24                      | 100                  | 167                     | P                       | H               |
|                             |      | 2491.46              | 43.09               | -10.91                  | 54                          | 39.85                     | 27.4                          | 7.09                    | 31.25                      | 100                  | 167                     | A                       | H               |
|                             |      | 2334.08              | 52.61               | -21.39                  | 74                          | 50.03                     | 26.99                         | 6.89                    | 31.3                       | 208                  | 342                     | P                       | V               |
|                             |      | 2388.96              | 42.53               | -11.47                  | 54                          | 39.68                     | 27.15                         | 6.98                    | 31.28                      | 208                  | 342                     | A                       | V               |
|                             | *    | 2437                 | 104.89              | -                       | -                           | 101.84                    | 27.28                         | 7.03                    | 31.26                      | 208                  | 342                     | P                       | V               |
|                             | *    | 2437                 | 97.15               | -                       | -                           | 94.1                      | 27.28                         | 7.03                    | 31.26                      | 208                  | 342                     | A                       | V               |
|                             |      | 2489.5               | 52.83               | -21.17                  | 74                          | 49.59                     | 27.4                          | 7.09                    | 31.25                      | 208                  | 342                     | P                       | V               |
|                             |      | 2489.08              | 44.3                | -9.7                    | 54                          | 41.06                     | 27.4                          | 7.09                    | 31.25                      | 208                  | 342                     | A                       | V               |



| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11g<br>CH 11<br>2462MHz | *                                                                                           | 2462                 | 95.51               | -                       | -                           | 92.4                      | 27.32                         | 7.05                    | 31.26                      | 100                  | 169                     | P                     | H             |
|                             | *                                                                                           | 2462                 | 87.74               | -                       | -                           | 84.63                     | 27.32                         | 7.05                    | 31.26                      | 100                  | 169                     | A                     | H             |
|                             |                                                                                             | 2483.76              | 56.55               | -17.45                  | 74                          | 53.37                     | 27.36                         | 7.07                    | 31.25                      | 100                  | 169                     | P                     | H             |
|                             |                                                                                             | 2483.56              | 45.04               | -8.96                   | 54                          | 41.86                     | 27.36                         | 7.07                    | 31.25                      | 100                  | 169                     | A                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             | *                                                                                           | 2462                 | 102.55              | -                       | -                           | 99.44                     | 27.32                         | 7.05                    | 31.26                      | 184                  | 341                     | P                     | V             |
|                             | *                                                                                           | 2462                 | 94.73               | -                       | -                           | 91.62                     | 27.32                         | 7.05                    | 31.26                      | 184                  | 341                     | A                     | V             |
|                             |                                                                                             | 2484.04              | 64.41               | -9.59                   | 74                          | 61.23                     | 27.36                         | 7.07                    | 31.25                      | 184                  | 341                     | P                     | V             |
|                             |                                                                                             | 2483.52              | 50.08               | -3.92                   | 54                          | 46.9                      | 27.36                         | 7.07                    | 31.25                      | 184                  | 341                     | A                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       |               |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11g<br>CH 01<br>2412MHz |                                                                                             | 4824                 | 39.57               | -34.43                  | 74                          | 54.82                     | 31.22                         | 10.07                   | 56.54                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             | 4824                 | 39.05               | -34.95                  | 74                          | 54.3                      | 31.22                         | 10.07                   | 56.54                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| 802.11g<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 39.13               | -34.87                  | 74                          | 54.18                     | 31.31                         | 10.11                   | 56.47                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 7311                 | 42.24               | -31.76                  | 74                          | 50.64                     | 36.27                         | 12.53                   | 57.2                       | 100                  | 0                       | P                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             | 4874                 | 38.66               | -35.34                  | 74                          | 53.71                     | 31.31                         | 10.11                   | 56.47                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 7311                 | 42.06               | -31.94                  | 74                          | 50.46                     | 36.27                         | 12.53                   | 57.2                       | 100                  | 0                       | P                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| 802.11g<br>CH 11<br>2462MHz |                                                                                             | 4924                 | 38.01               | -35.99                  | 74                          | 52.88                     | 31.39                         | 10.14                   | 56.4                       | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 7386                 | 42.05               | -31.95                  | 74                          | 50.14                     | 36.51                         | 12.73                   | 57.33                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             | 4924                 | 37.72               | -36.28                  | 74                          | 52.59                     | 31.39                         | 10.14                   | 56.4                       | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 7386                 | 42.69               | -31.31                  | 74                          | 50.78                     | 36.51                         | 12.73                   | 57.33                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       |               |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 01<br>2412MHz |      | 2388.96              | 54.3                | -19.7                   | 74                          | 51.45                     | 27.15                         | 6.98                    | 31.28                      | 358                  | 222                     | P                       | H               |
|                                     |      | 2389.8               | 43.68               | -10.32                  | 54                          | 40.82                     | 27.15                         | 6.98                    | 31.27                      | 358                  | 222                     | A                       | H               |
|                                     | *    | 2412                 | 95.86               | -                       | -                           | 92.94                     | 27.19                         | 7                       | 31.27                      | 358                  | 222                     | P                       | H               |
|                                     | *    | 2412                 | 87.86               | -                       | -                           | 84.94                     | 27.19                         | 7                       | 31.27                      | 358                  | 222                     | A                       | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |      | 2389.27              | 62.76               | -11.24                  | 74                          | 59.91                     | 27.15                         | 6.98                    | 31.28                      | 131                  | 222                     | P                       | V               |
|                                     |      | 2389.9               | 47.55               | -6.45                   | 54                          | 44.69                     | 27.15                         | 6.98                    | 31.27                      | 131                  | 222                     | A                       | V               |
|                                     | *    | 2412                 | 102.78              | -                       | -                           | 99.86                     | 27.19                         | 7                       | 31.27                      | 131                  | 222                     | P                       | V               |
|                                     | *    | 2412                 | 94.8                | -                       | -                           | 91.88                     | 27.19                         | 7                       | 31.27                      | 131                  | 222                     | A                       | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |      | 2348.78              | 53.15               | -20.85                  | 74                          | 50.5                      | 27.03                         | 6.91                    | 31.29                      | 358                  | 226                     | P                       | H               |
|                                     |      | 2373.98              | 42.59               | -11.41                  | 54                          | 39.8                      | 27.11                         | 6.96                    | 31.28                      | 358                  | 226                     | A                       | H               |
|                                     | *    | 2437                 | 95.15               | -                       | -                           | 92.1                      | 27.28                         | 7.03                    | 31.26                      | 358                  | 226                     | P                       | H               |
|                                     | *    | 2437                 | 87.17               | -                       | -                           | 84.12                     | 27.28                         | 7.03                    | 31.26                      | 358                  | 226                     | A                       | H               |
|                                     |      | 2496.08              | 52.23               | -21.77                  | 74                          | 48.98                     | 27.4                          | 7.09                    | 31.24                      | 358                  | 226                     | P                       | H               |
|                                     |      | 2487.96              | 43.17               | -10.83                  | 54                          | 39.93                     | 27.4                          | 7.09                    | 31.25                      | 358                  | 226                     | A                       | H               |
|                                     |      | 2342.34              | 52.42               | -21.58                  | 74                          | 49.77                     | 27.03                         | 6.91                    | 31.29                      | 104                  | 221                     | P                       | V               |
|                                     |      | 2385.74              | 42.64               | -11.36                  | 54                          | 39.79                     | 27.15                         | 6.98                    | 31.28                      | 104                  | 221                     | A                       | V               |
|                                     | *    | 2437                 | 102.68              | -                       | -                           | 99.63                     | 27.28                         | 7.03                    | 31.26                      | 104                  | 221                     | P                       | V               |
|                                     | *    | 2437                 | 94.97               | -                       | -                           | 91.92                     | 27.28                         | 7.03                    | 31.26                      | 104                  | 221                     | A                       | V               |
|                                     |      | 2488.45              | 53.33               | -20.67                  | 74                          | 50.09                     | 27.4                          | 7.09                    | 31.25                      | 104                  | 221                     | P                       | V               |
|                                     |      | 2488.38              | 43.74               | -10.26                  | 54                          | 40.5                      | 27.4                          | 7.09                    | 31.25                      | 104                  | 221                     | A                       | V               |



| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 11<br>2462MHz | *                                                                                           | 2462                 | 94.88               | -                       | -                           | 91.77                     | 27.32                         | 7.05                    | 31.26                      | 307                  | 216                     | P                     | H             |
|                                     | *                                                                                           | 2462                 | 86.86               | -                       | -                           | 83.75                     | 27.32                         | 7.05                    | 31.26                      | 307                  | 216                     | A                     | H             |
|                                     |                                                                                             | 2483.56              | 61.92               | -12.08                  | 74                          | 58.74                     | 27.36                         | 7.07                    | 31.25                      | 307                  | 216                     | P                     | H             |
|                                     |                                                                                             | 2483.6               | 46.32               | -7.68                   | 54                          | 43.14                     | 27.36                         | 7.07                    | 31.25                      | 307                  | 216                     | A                     | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                     | *                                                                                           | 2462                 | 100.69              | -                       | -                           | 97.58                     | 27.32                         | 7.05                    | 31.26                      | 103                  | 225                     | P                     | V             |
|                                     | *                                                                                           | 2462                 | 93.05               | -                       | -                           | 89.94                     | 27.32                         | 7.05                    | 31.26                      | 103                  | 225                     | A                     | V             |
|                                     |                                                                                             | 2484.4               | 63.13               | -10.87                  | 74                          | 59.95                     | 27.36                         | 7.07                    | 31.25                      | 103                  | 225                     | P                     | V             |
|                                     |                                                                                             | 2483.52              | 50.45               | -3.55                   | 54                          | 47.27                     | 27.36                         | 7.07                    | 31.25                      | 103                  | 225                     | A                     | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       |               |





## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 01<br>2412MHz |                                                                                             | 4824                 | 39.89               | -34.11                  | 74                          | 55.14                     | 31.22                         | 10.07                   | 56.54                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4824                 | 38.95               | -35.05                  | 74                          | 54.2                      | 31.22                         | 10.07                   | 56.54                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 38.92               | -35.08                  | 74                          | 53.97                     | 31.31                         | 10.11                   | 56.47                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7311                 | 49.47               | -24.53                  | 74                          | 57.87                     | 36.27                         | 12.53                   | 57.2                       | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4874                 | 39.7                | -34.3                   | 74                          | 54.75                     | 31.31                         | 10.11                   | 56.47                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7311                 | 45.05               | -28.95                  | 74                          | 53.45                     | 36.27                         | 12.53                   | 57.2                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 11<br>2462MHz |                                                                                             | 4924                 | 45.7                | -28.3                   | 74                          | 60.57                     | 31.39                         | 10.14                   | 56.4                       | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7386                 | 43.46               | -30.54                  | 74                          | 51.55                     | 36.51                         | 12.73                   | 57.33                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4924                 | 43.12               | -30.88                  | 74                          | 57.99                     | 31.39                         | 10.14                   | 56.4                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7386                 | 43.09               | -30.91                  | 74                          | 51.18                     | 36.51                         | 12.73                   | 57.33                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 03<br>2422MHz |      | 2389.24              | 54.17               | -19.83                  | 74                          | 51.32                     | 27.15                         | 6.98                    | 31.28                      | 100                  | 103                     | P                       | H               |
|                                     |      | 2389.94              | 44.85               | -9.15                   | 54                          | 41.99                     | 27.15                         | 6.98                    | 31.27                      | 100                  | 103                     | A                       | H               |
|                                     | *    | 2422                 | 90.46               | -                       | -                           | 87.47                     | 27.23                         | 7.02                    | 31.26                      | 100                  | 103                     | P                       | H               |
|                                     | *    | 2422                 | 83.1                | -                       | -                           | 80.11                     | 27.23                         | 7.02                    | 31.26                      | 100                  | 103                     | A                       | H               |
|                                     |      | 2490.55              | 52.7                | -21.3                   | 74                          | 49.46                     | 27.4                          | 7.09                    | 31.25                      | 100                  | 103                     | P                       | H               |
|                                     |      | 2491.67              | 44.06               | -9.94                   | 54                          | 40.82                     | 27.4                          | 7.09                    | 31.25                      | 100                  | 103                     | A                       | H               |
|                                     |      | 2389.66              | 60.72               | -13.28                  | 74                          | 57.87                     | 27.15                         | 6.98                    | 31.28                      | 102                  | 235                     | P                       | V               |
|                                     |      | 2389.52              | 50.86               | -3.14                   | 54                          | 48.01                     | 27.15                         | 6.98                    | 31.28                      | 102                  | 235                     | A                       | V               |
|                                     | *    | 2422                 | 98.68               | -                       | -                           | 95.69                     | 27.23                         | 7.02                    | 31.26                      | 102                  | 235                     | P                       | V               |
|                                     | *    | 2422                 | 90.96               | -                       | -                           | 87.97                     | 27.23                         | 7.02                    | 31.26                      | 102                  | 235                     | A                       | V               |
|                                     |      | 2494.05              | 52.93               | -21.07                  | 74                          | 49.68                     | 27.4                          | 7.09                    | 31.24                      | 102                  | 235                     | P                       | V               |
|                                     |      | 2486.77              | 43.8                | -10.2                   | 54                          | 40.62                     | 27.36                         | 7.07                    | 31.25                      | 102                  | 235                     | A                       | V               |
| 802.11n<br>HT40<br>CH 06<br>2437MHz |      | 2389.38              | 52.76               | -21.24                  | 74                          | 49.91                     | 27.15                         | 6.98                    | 31.28                      | 100                  | 105                     | P                       | H               |
|                                     |      | 2355.36              | 43.53               | -10.47                  | 54                          | 40.82                     | 27.07                         | 6.93                    | 31.29                      | 100                  | 105                     | A                       | H               |
|                                     | *    | 2437                 | 91.01               | -                       | -                           | 87.96                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 105                     | P                       | H               |
|                                     | *    | 2437                 | 83.41               | -                       | -                           | 80.36                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 105                     | A                       | H               |
|                                     |      | 2486.21              | 53.07               | -20.93                  | 74                          | 49.89                     | 27.36                         | 7.07                    | 31.25                      | 100                  | 105                     | P                       | H               |
|                                     |      | 2483.5               | 44.21               | -9.79                   | 54                          | 41.03                     | 27.36                         | 7.07                    | 31.25                      | 100                  | 105                     | A                       | H               |
|                                     |      | 2389.8               | 55.76               | -18.24                  | 74                          | 52.9                      | 27.15                         | 6.98                    | 31.27                      | 100                  | 233                     | P                       | V               |
|                                     |      | 2389.8               | 46.26               | -7.74                   | 54                          | 43.4                      | 27.15                         | 6.98                    | 31.27                      | 100                  | 233                     | A                       | V               |
|                                     | *    | 2437                 | 99.76               | -                       | -                           | 96.71                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 233                     | P                       | V               |
|                                     | *    | 2437                 | 92.31               | -                       | -                           | 89.26                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 233                     | A                       | V               |
|                                     |      | 2483.9               | 61.17               | -12.83                  | 74                          | 57.99                     | 27.36                         | 7.07                    | 31.25                      | 100                  | 233                     | P                       | V               |
|                                     |      | 2483.5               | 49.15               | -4.85                   | 54                          | 45.97                     | 27.36                         | 7.07                    | 31.25                      | 100                  | 233                     | A                       | V               |



| WIFI<br>Ant.<br>1                             | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT40<br/>CH 09<br/>2452MHz</b> |                                                                                             | 2330.72              | 52.4                | -21.6                   | 74                          | 49.82                     | 26.99                         | 6.89                    | 31.3                       | 100                  | 137                     | P                       | H               |
|                                               |                                                                                             | 2346.12              | 43.26               | -10.74                  | 54                          | 40.61                     | 27.03                         | 6.91                    | 31.29                      | 100                  | 137                     | A                       | H               |
|                                               | *                                                                                           | 2452                 | 88.9                | -                       | -                           | 85.85                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 137                     | P                       | H               |
|                                               | *                                                                                           | 2452                 | 81.39               | -                       | -                           | 78.34                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 137                     | A                       | H               |
|                                               |                                                                                             | 2485.37              | 55.66               | -18.34                  | 74                          | 52.48                     | 27.36                         | 7.07                    | 31.25                      | 100                  | 137                     | P                       | H               |
|                                               |                                                                                             | 2483.9               | 44.78               | -9.22                   | 54                          | 41.6                      | 27.36                         | 7.07                    | 31.25                      | 100                  | 137                     | A                       | H               |
|                                               |                                                                                             | 2338                 | 52.35               | -21.65                  | 74                          | 49.71                     | 27.03                         | 6.91                    | 31.3                       | 100                  | 231                     | P                       | V               |
|                                               |                                                                                             | 2387.56              | 43.28               | -10.72                  | 54                          | 40.43                     | 27.15                         | 6.98                    | 31.28                      | 100                  | 231                     | A                       | V               |
|                                               | *                                                                                           | 2452                 | 97.53               | -                       | -                           | 94.48                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 231                     | P                       | V               |
|                                               | *                                                                                           | 2452                 | 89                  | -                       | -                           | 85.95                     | 27.28                         | 7.03                    | 31.26                      | 100                  | 231                     | A                       | V               |
|                                               |                                                                                             | 2485.23              | 59.9                | -14.1                   | 74                          | 56.72                     | 27.36                         | 7.07                    | 31.25                      | 100                  | 231                     | P                       | V               |
|                                               |                                                                                             | 2483.69              | 50.56               | -3.44                   | 54                          | 47.38                     | 27.36                         | 7.07                    | 31.25                      | 100                  | 231                     | A                       | V               |
| <b>Remark</b>                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 03<br>2422MHz |                                                                                             | 4844                 | 44.46               | -29.54                  | 74                          | 59.65                     | 31.25                         | 10.08                   | 56.52                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7266                 | 42.39               | -31.61                  | 74                          | 50.9                      | 36.17                         | 12.46                   | 57.14                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4844                 | 37.85               | -36.15                  | 74                          | 53.04                     | 31.25                         | 10.08                   | 56.52                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7266                 | 43.63               | -30.37                  | 74                          | 52.14                     | 36.17                         | 12.46                   | 57.14                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 38.84               | -35.16                  | 74                          | 53.89                     | 31.31                         | 10.11                   | 56.47                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7311                 | 44.3                | -29.7                   | 74                          | 52.7                      | 36.27                         | 12.53                   | 57.2                       | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4874                 | 38.27               | -35.73                  | 74                          | 53.32                     | 31.31                         | 10.11                   | 56.47                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7311                 | 42.08               | -31.92                  | 74                          | 50.48                     | 36.27                         | 12.53                   | 57.2                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 09<br>2452MHz |                                                                                             | 4904                 | 41.1                | -32.9                   | 74                          | 56.03                     | 31.36                         | 10.13                   | 56.42                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7356                 | 42.33               | -31.67                  | 74                          | 50.55                     | 36.41                         | 12.65                   | 57.28                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4904                 | 39.11               | -34.89                  | 74                          | 54.04                     | 31.36                         | 10.13                   | 56.42                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7356                 | 42.4                | -31.6                   | 74                          | 50.62                     | 36.41                         | 12.65                   | 57.28                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

### Emission below 1 GHz

**2.4GHz WIFI 802.11g (LF)**

| WIFI                    | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|-------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                    |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                       |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11g<br>LF |                                                                            | 41.34     | 32.68      | -7.32  | 40         | 44.89  | 19.08    | 0.64   | 31.93  | 100    | 56      | P     | H     |
|                         |                                                                            | 112.62    | 30.53      | -12.97 | 43.5       | 44.09  | 17.21    | 1.11   | 31.88  |        |         | P     | H     |
|                         |                                                                            | 228.72    | 24.12      | -21.88 | 46         | 37.47  | 16.81    | 1.63   | 31.79  |        |         | P     | H     |
|                         |                                                                            | 450.5     | 23.44      | -22.56 | 46         | 29.97  | 22.92    | 2.36   | 31.81  |        |         | P     | H     |
|                         |                                                                            | 652.1     | 26.99      | -19.01 | 46         | 30.35  | 25.72    | 2.91   | 31.99  |        |         | P     | H     |
|                         |                                                                            | 949.6     | 31.92      | -14.08 | 46         | 29.5   | 30.1     | 3.44   | 31.12  |        |         | P     | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            | 54.84     | 36.6       | -3.4   | 40         | 54.41  | 13.3     | 0.81   | 31.92  | 100    | 28      | P     | V     |
|                         |                                                                            | 157.44    | 31.84      | -11.66 | 43.5       | 45.35  | 17.01    | 1.32   | 31.84  |        |         | P     | V     |
|                         |                                                                            | 295.95    | 21.13      | -24.87 | 46         | 31.61  | 19.46    | 1.81   | 31.75  |        |         | P     | V     |
|                         |                                                                            | 441.4     | 23.05      | -22.95 | 46         | 29.73  | 22.78    | 2.34   | 31.8   |        |         | P     | V     |
|                         |                                                                            | 672.4     | 27.46      | -18.54 | 46         | 30.64  | 25.88    | 2.95   | 32.01  |        |         | P     | V     |
|                         |                                                                            | 958       | 32.26      | -13.74 | 46         | 29.72  | 30.13    | 3.46   | 31.05  |        |         | P     | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                  | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                     |



A calculation example for radiated spurious emission is shown as below:

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1       |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**