



## Appendix B. Radiated Spurious Emission

|                 |                                   |                     |         |
|-----------------|-----------------------------------|---------------------|---------|
| Test Engineer : | Tsung Lee, Stan Hsieh and Ray Lee | Temperature :       | 20~22°C |
|                 |                                   | Relative Humidity : | 41~43%  |

Band 4 - 5725~5850MHz

WIFI 802.11a (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 ) |
|------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 149<br>5745MHz |      | 5714.99              | 55.96               | -18.04                  | 74                          | 47.8                      | 32.52                         | 8.3                     | 32.66                      | 100                  | 357                     | P                       | H               |
|                              |      | 5718.52              | 61.1                | -17.2                   | 78.3                        | 52.93                     | 32.53                         | 8.3                     | 32.66                      | 100                  | 357                     | P                       | H               |
|                              |      | 5715                 | 45.29               | -8.71                   | 54                          | 37.13                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 357                     | A                       | H               |
|                              | *    | 5744                 | 103.44              | -                       | -                           | 95.24                     | 32.54                         | 8.33                    | 32.67                      | 100                  | 357                     | P                       | H               |
|                              | *    | 5744                 | 95.17               | -                       | -                           | 86.97                     | 32.54                         | 8.33                    | 32.67                      | 100                  | 357                     | A                       | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |      | 5714.2               | 53.67               | -20.33                  | 74                          | 45.51                     | 32.52                         | 8.3                     | 32.66                      | 105                  | 11                      | P                       | V               |
|                              |      | 5716.2               | 61.75               | -16.55                  | 78.3                        | 53.59                     | 32.52                         | 8.3                     | 32.66                      | 105                  | 11                      | P                       | V               |
|                              |      | 5715                 | 44.63               | -9.37                   | 54                          | 36.47                     | 32.52                         | 8.3                     | 32.66                      | 105                  | 11                      | A                       | V               |
|                              | *    | 5743                 | 100.61              | -                       | -                           | 92.41                     | 32.54                         | 8.33                    | 32.67                      | 105                  | 11                      | P                       | V               |
|                              | *    | 5743                 | 94.54               | -                       | -                           | 86.34                     | 32.54                         | 8.33                    | 32.67                      | 105                  | 11                      | A                       | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | 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>802.11a<br/>CH 157<br/>5785MHz</b> |      | 5706.76              | 53.47               | -20.53                  | 74                          | 45.31                     | 32.52                         | 8.3                     | 32.66                      | 117                  | 358                     | P                       | H               |
|                                       |      | 5719.88              | 51.81               | -26.49                  | 78.3                        | 43.64                     | 32.53                         | 8.3                     | 32.66                      | 117                  | 358                     | P                       | H               |
|                                       |      | 5705.64              | 43.11               | -10.89                  | 54                          | 34.95                     | 32.52                         | 8.3                     | 32.66                      | 117                  | 358                     | A                       | H               |
|                                       | *    | 5783                 | 103.24              | -                       | -                           | 95                        | 32.57                         | 8.35                    | 32.68                      | 117                  | 358                     | P                       | H               |
|                                       | *    | 5783                 | 95.56               | -                       | -                           | 87.32                     | 32.57                         | 8.35                    | 32.68                      | 117                  | 358                     | A                       | H               |
|                                       |      | 5858.4               | 49.94               | -28.36                  | 78.3                        | 41.6                      | 32.62                         | 8.43                    | 32.71                      | 117                  | 358                     | P                       | H               |
|                                       |      | 5865.6               | 49.63               | -24.37                  | 74                          | 41.29                     | 32.62                         | 8.43                    | 32.71                      | 117                  | 358                     | P                       | H               |
|                                       |      | 5860.88              | 40.28               | -13.72                  | 54                          | 31.94                     | 32.62                         | 8.43                    | 32.71                      | 117                  | 358                     | A                       | H               |
|                                       |      | 5701.96              | 51.84               | -22.16                  | 74                          | 43.67                     | 32.52                         | 8.3                     | 32.65                      | 100                  | 11                      | P                       | V               |
|                                       |      | 5715.48              | 50.44               | -27.86                  | 78.3                        | 42.28                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 11                      | P                       | V               |
|                                       |      | 5710.12              | 42.85               | -11.15                  | 54                          | 34.69                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 11                      | A                       | V               |
|                                       | *    | 5783                 | 101.63              | -                       | -                           | 93.39                     | 32.57                         | 8.35                    | 32.68                      | 100                  | 11                      | P                       | V               |
|                                       | *    | 5783                 | 94.6                | -                       | -                           | 86.36                     | 32.57                         | 8.35                    | 32.68                      | 100                  | 11                      | A                       | V               |
|                                       |      | 5853.52              | 49.55               | -28.75                  | 78.3                        | 41.2                      | 32.62                         | 8.43                    | 32.7                       | 100                  | 11                      | P                       | V               |
|                                       |      | 5877.04              | 48.91               | -25.09                  | 74                          | 40.56                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 11                      | P                       | V               |
|                                       |      | 5860                 | 39.73               | -14.27                  | 54                          | 31.39                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 11                      | 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 ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 165<br>5825MHz | *                                                                                           | 5827                 | 104.05              | -                       | -                           | 95.75                     | 32.6                          | 8.39                    | 32.69                      | 100                  | 360                     | P                       | H               |
|                              | *                                                                                           | 5827                 | 96.93               | -                       | -                           | 88.63                     | 32.6                          | 8.39                    | 32.69                      | 100                  | 360                     | A                       | H               |
|                              |                                                                                             | 5850.4               | 53.43               | -24.87                  | 78.3                        | 45.09                     | 32.61                         | 8.43                    | 32.7                       | 100                  | 360                     | P                       | H               |
|                              |                                                                                             | 5872.24              | 51.47               | -22.53                  | 74                          | 43.12                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 360                     | P                       | H               |
|                              |                                                                                             | 5860                 | 42.11               | -11.89                  | 54                          | 33.77                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 360                     | A                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              | *                                                                                           | 5823                 | 102.24              | -                       | -                           | 93.94                     | 32.6                          | 8.39                    | 32.69                      | 100                  | 352                     | P                       | V               |
|                              | *                                                                                           | 5823                 | 95.23               | -                       | -                           | 86.93                     | 32.6                          | 8.39                    | 32.69                      | 100                  | 352                     | A                       | V               |
|                              |                                                                                             | 5855.12              | 51.13               | -27.17                  | 78.3                        | 42.78                     | 32.62                         | 8.43                    | 32.7                       | 100                  | 352                     | P                       | V               |
|                              |                                                                                             | 5868.08              | 50.37               | -23.63                  | 74                          | 42.03                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 352                     | P                       | V               |
|                              |                                                                                             | 5860                 | 40.98               | -13.02                  | 54                          | 32.64                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 352                     | A                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11a (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 ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 149<br>5745MHz |                                                                                             | 11490                | 45.07               | -28.93                  | 74                          | 55.28                     | 40.01                         | 12.58                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17235                | 46.82               | -27.18                  | 74                          | 50.25                     | 41.05                         | 15.66                   | 60.14                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11490                | 45.84               | -28.16                  | 74                          | 56.05                     | 40.01                         | 12.58                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17235                | 48.94               | -25.06                  | 74                          | 52.37                     | 41.05                         | 15.66                   | 60.14                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 157<br>5785MHz |                                                                                             | 11570                | 44.53               | -29.47                  | 74                          | 54.73                     | 39.88                         | 12.66                   | 62.74                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17355                | 46.58               | -27.42                  | 74                          | 49.62                     | 41.38                         | 15.79                   | 60.21                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11570                | 46.8                | -27.2                   | 74                          | 57                        | 39.88                         | 12.66                   | 62.74                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17355                | 47.07               | -26.93                  | 74                          | 50.11                     | 41.38                         | 15.79                   | 60.21                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 165<br>5825MHz |                                                                                             | 11650                | 44.83               | -29.17                  | 74                          | 55.04                     | 39.75                         | 12.73                   | 62.69                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17475                | 47.15               | -26.85                  | 74                          | 49.79                     | 41.71                         | 15.93                   | 60.28                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11650                | 45.57               | -28.43                  | 74                          | 55.78                     | 39.75                         | 12.73                   | 62.69                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17475                | 47.31               | -26.69                  | 74                          | 49.95                     | 41.71                         | 15.93                   | 60.28                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

**Band 4 5725~5850MHz****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 149<br>5745MHz |      | 5709.24              | 57.91               | -16.09                  | 74                          | 49.75                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 0                       | P                       | H               |
|                                      |      | 5724.92              | 59.84               | -18.46                  | 78.3                        | 51.64                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 0                       | P                       | H               |
|                                      |      | 5714.6               | 45.59               | -8.41                   | 54                          | 37.43                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 0                       | A                       | H               |
|                                      | *    | 5747                 | 101.08              | -                       | -                           | 92.88                     | 32.54                         | 8.33                    | 32.67                      | 100                  | 0                       | P                       | H               |
|                                      | *    | 5747                 | 94.74               | -                       | -                           | 86.54                     | 32.54                         | 8.33                    | 32.67                      | 100                  | 0                       | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 5713.16              | 54.57               | -19.43                  | 74                          | 46.41                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 10                      | P                       | V               |
|                                      |      | 5724.12              | 59.88               | -18.42                  | 78.3                        | 51.68                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 10                      | P                       | V               |
|                                      |      | 5713.88              | 45.18               | -8.82                   | 54                          | 37.02                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 10                      | A                       | V               |
|                                      | *    | 5743                 | 100.57              | -                       | -                           | 92.37                     | 32.54                         | 8.33                    | 32.67                      | 100                  | 10                      | P                       | V               |
|                                      | *    | 5743                 | 94.03               | -                       | -                           | 85.83                     | 32.54                         | 8.33                    | 32.67                      | 100                  | 10                      | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | 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/>HT20<br/>CH 157<br/>5785MHz</b> |      | 5709.56              | 52.78               | -21.22                  | 74                          | 44.62                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 346                     | P                     | H             |
|                                                |      | 5721.32              | 52.14               | -26.16                  | 78.3                        | 43.97                     | 32.53                         | 8.3                     | 32.66                      | 100                  | 346                     | P                     | H             |
|                                                |      | 5705.64              | 44.13               | -9.87                   | 54                          | 35.97                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 346                     | A                     | H             |
|                                                | *    | 5787                 | 102.52              | -                       | -                           | 94.27                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 346                     | P                     | H             |
|                                                | *    | 5787                 | 96.17               | -                       | -                           | 87.92                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 346                     | A                     | H             |
|                                                |      | 5850.88              | 49.63               | -28.67                  | 78.3                        | 41.29                     | 32.61                         | 8.43                    | 32.7                       | 100                  | 346                     | P                     | H             |
|                                                |      | 5864.56              | 49.91               | -24.09                  | 74                          | 41.57                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 346                     | P                     | H             |
|                                                |      | 5865.76              | 41.37               | -12.63                  | 54                          | 33.03                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 346                     | A                     | H             |
|                                                |      | 5713.16              | 52.64               | -21.36                  | 74                          | 44.48                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 13                      | P                     | V             |
|                                                |      | 5715.32              | 51.19               | -27.11                  | 78.3                        | 43.03                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 13                      | P                     | V             |
|                                                |      | 5711.16              | 44.01               | -9.99                   | 54                          | 35.85                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 13                      | A                     | V             |
|                                                | *    | 5787                 | 101.09              | -                       | -                           | 92.84                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 13                      | P                     | V             |
|                                                | *    | 5787                 | 94.53               | -                       | -                           | 86.28                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 13                      | A                     | V             |
|                                                |      | 5857.28              | 49.03               | -29.27                  | 78.3                        | 40.68                     | 32.62                         | 8.43                    | 32.7                       | 100                  | 13                      | P                     | V             |
|                                                |      | 5886.88              | 48.39               | -25.61                  | 74                          | 40.01                     | 32.63                         | 8.47                    | 32.72                      | 100                  | 13                      | P                     | V             |
|                                                |      | 5860.48              | 40.69               | -13.31                  | 54                          | 32.35                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 13                      | 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 165<br>5825MHz | *                                                            | 5823                 | 103.97              | -                       | -                           | 95.67                     | 32.6                          | 8.39                    | 32.69                      | 100                  | 1                       | P                       | H               |
|                                      | *                                                            | 5823                 | 96.81               | -                       | -                           | 88.51                     | 32.6                          | 8.39                    | 32.69                      | 100                  | 1                       | A                       | H               |
|                                      |                                                              | 5850.48              | 56.95               | -21.35                  | 78.3                        | 48.61                     | 32.61                         | 8.43                    | 32.7                       | 100                  | 1                       | P                       | H               |
|                                      |                                                              | 5872.08              | 50.67               | -23.33                  | 74                          | 42.32                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 1                       | P                       | H               |
|                                      |                                                              | 5860                 | 42.82               | -11.18                  | 54                          | 34.48                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 1                       | A                       | H               |
|                                      |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      | *                                                            | 5827                 | 101.54              | -                       | -                           | 93.24                     | 32.6                          | 8.39                    | 32.69                      | 103                  | 15                      | P                       | V               |
|                                      | *                                                            | 5827                 | 95.24               | -                       | -                           | 86.94                     | 32.6                          | 8.39                    | 32.69                      | 103                  | 15                      | A                       | V               |
|                                      |                                                              | 5854.72              | 54.88               | -23.42                  | 78.3                        | 46.53                     | 32.62                         | 8.43                    | 32.7                       | 103                  | 15                      | P                       | V               |
|                                      |                                                              | 5868.24              | 50.38               | -23.62                  | 74                          | 42.04                     | 32.62                         | 8.43                    | 32.71                      | 103                  | 15                      | P                       | V               |
|                                      |                                                              | 5860.8               | 41.64               | -12.36                  | 54                          | 33.3                      | 32.62                         | 8.43                    | 32.71                      | 103                  | 15                      | A                       | V               |
|                                      |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.                                  |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
|                                      | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## 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 149<br>5745MHz |                                                                                             | 11490                | 45.03               | -28.97                  | 74                          | 55.24                     | 40.01                         | 12.58                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17235                | 45.38               | -28.62                  | 74                          | 48.81                     | 41.05                         | 15.66                   | 60.14                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11490                | 45.87               | -28.13                  | 74                          | 56.08                     | 40.01                         | 12.58                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17235                | 47.51               | -26.49                  | 74                          | 50.94                     | 41.05                         | 15.66                   | 60.14                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 157<br>5785MHz |                                                                                             | 11570                | 44.32               | -29.68                  | 74                          | 54.52                     | 39.88                         | 12.66                   | 62.74                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17355                | 46.06               | -27.94                  | 74                          | 49.1                      | 41.38                         | 15.79                   | 60.21                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11570                | 47.29               | -26.71                  | 74                          | 57.49                     | 39.88                         | 12.66                   | 62.74                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17355                | 47.89               | -26.11                  | 74                          | 50.93                     | 41.38                         | 15.79                   | 60.21                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 165<br>5825MHz |                                                                                             | 11650                | 44.76               | -29.24                  | 74                          | 54.97                     | 39.75                         | 12.73                   | 62.69                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17475                | 46.92               | -27.08                  | 74                          | 49.56                     | 41.71                         | 15.93                   | 60.28                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11650                | 45.4                | -28.6                   | 74                          | 55.61                     | 39.75                         | 12.73                   | 62.69                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17475                | 49.3                | -24.7                   | 74                          | 51.94                     | 41.71                         | 15.93                   | 60.28                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**Band 4 5725~5850MHz****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 ) |
|------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT40<br/>CH 151<br/>5755MHz</b> |      | 5714.12              | 58.69               | -15.31                  | 74                          | 50.53                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 360                     | P                       | H               |
|                                                |      | 5723.88              | 60.19               | -18.11                  | 78.3                        | 51.99                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 360                     | P                       | H               |
|                                                |      | 5714.28              | 49.23               | -4.77                   | 54                          | 41.07                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 360                     | A                       | H               |
|                                                | *    | 5757                 | 99.92               | -                       | -                           | 91.7                      | 32.56                         | 8.33                    | 32.67                      | 100                  | 360                     | P                       | H               |
|                                                | *    | 5757                 | 92.75               | -                       | -                           | 84.53                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 360                     | A                       | H               |
|                                                |      | 5853.28              | 47.76               | -30.54                  | 78.3                        | 39.42                     | 32.61                         | 8.43                    | 32.7                       | 100                  | 360                     | P                       | H               |
|                                                |      | 5886.08              | 49.11               | -24.89                  | 74                          | 40.73                     | 32.63                         | 8.47                    | 32.72                      | 100                  | 360                     | P                       | H               |
|                                                |      | 5889.52              | 40.34               | -13.66                  | 54                          | 31.95                     | 32.64                         | 8.47                    | 32.72                      | 100                  | 360                     | A                       | H               |
|                                                |      | 5714.92              | 56.54               | -17.46                  | 74                          | 48.38                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 12                      | P                       | V               |
|                                                |      | 5724.76              | 59.35               | -18.95                  | 78.3                        | 51.15                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 12                      | P                       | V               |
|                                                |      | 5714.68              | 48.64               | -5.36                   | 54                          | 40.48                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 12                      | A                       | V               |
|                                                | *    | 5757                 | 97.9                | -                       | -                           | 89.68                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 12                      | P                       | V               |
|                                                | *    | 5757                 | 91.89               | -                       | -                           | 83.67                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 12                      | A                       | V               |
|                                                |      | 5858.8               | 47.46               | -30.84                  | 78.3                        | 39.12                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 12                      | P                       | V               |
|                                                |      | 5860.56              | 47.75               | -26.25                  | 74                          | 39.41                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 12                      | P                       | V               |
|                                                |      | 5875.6               | 40.12               | -13.88                  | 54                          | 31.77                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 12                      | 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>HT40<br>CH 159<br>5795MHz |                                                                                             | 5700.36              | 53.48               | -20.52                  | 74                          | 45.32                     | 32.51                         | 8.3                     | 32.65                      | 109                  | 360                     | P                       | H               |
|                                      |                                                                                             | 5718.44              | 53.72               | -24.58                  | 78.3                        | 45.55                     | 32.53                         | 8.3                     | 32.66                      | 109                  | 360                     | P                       | H               |
|                                      |                                                                                             | 5710.2               | 44.53               | -9.47                   | 54                          | 36.37                     | 32.52                         | 8.3                     | 32.66                      | 109                  | 360                     | A                       | H               |
|                                      | *                                                                                           | 5793                 | 100.3               | -                       | -                           | 92.05                     | 32.58                         | 8.35                    | 32.68                      | 109                  | 360                     | P                       | H               |
|                                      | *                                                                                           | 5793                 | 93.46               | -                       | -                           | 85.21                     | 32.58                         | 8.35                    | 32.68                      | 109                  | 360                     | A                       | H               |
|                                      |                                                                                             | 5859.68              | 49.31               | -28.99                  | 78.3                        | 40.97                     | 32.62                         | 8.43                    | 32.71                      | 109                  | 360                     | P                       | H               |
|                                      |                                                                                             | 5881.36              | 50.56               | -23.44                  | 74                          | 42.17                     | 32.63                         | 8.47                    | 32.71                      | 109                  | 360                     | P                       | H               |
|                                      |                                                                                             | 5866.08              | 42.3                | -11.7                   | 54                          | 33.96                     | 32.62                         | 8.43                    | 32.71                      | 109                  | 360                     | A                       | H               |
|                                      |                                                                                             | 5713.96              | 52.58               | -21.42                  | 74                          | 44.42                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 10                      | P                       | V               |
|                                      |                                                                                             | 5716.12              | 52.34               | -25.96                  | 78.3                        | 44.18                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 10                      | P                       | V               |
|                                      |                                                                                             | 5709                 | 44.32               | -9.68                   | 54                          | 36.16                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 10                      | A                       | V               |
|                                      | *                                                                                           | 5793                 | 99.22               | -                       | -                           | 90.97                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 10                      | P                       | V               |
|                                      | *                                                                                           | 5793                 | 92.3                | -                       | -                           | 84.05                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 10                      | A                       | V               |
|                                      |                                                                                             | 5855.44              | 50.46               | -27.84                  | 78.3                        | 42.11                     | 32.62                         | 8.43                    | 32.7                       | 100                  | 10                      | P                       | V               |
|                                      |                                                                                             | 5872.64              | 49.2                | -24.8                   | 74                          | 40.85                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 10                      | P                       | V               |
|                                      |                                                                                             | 5877.92              | 41.62               | -12.38                  | 54                          | 33.27                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 10                      | A                       | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## 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 151<br>5755MHz |                                                                                             | 11510                | 45.2                | -28.8                   | 74                          | 55.42                     | 40                            | 12.58                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17265                | 44.94               | -29.06                  | 74                          | 48.29                     | 41.15                         | 15.66                   | 60.16                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11510                | 45.75               | -28.25                  | 74                          | 55.97                     | 40                            | 12.58                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17265                | 44.79               | -29.21                  | 74                          | 48.14                     | 41.15                         | 15.66                   | 60.16                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 11590                | 45.45               | -28.55                  | 74                          | 55.68                     | 39.84                         | 12.66                   | 62.73                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17385                | 45.22               | -28.78                  | 74                          | 48.19                     | 41.47                         | 15.79                   | 60.23                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11590                | 47.91               | -26.09                  | 74                          | 58.14                     | 39.84                         | 12.66                   | 62.73                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17385                | 45.22               | -28.78                  | 74                          | 48.19                     | 41.47                         | 15.79                   | 60.23                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11ac VHT80 (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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 155<br>5775MHz |                                                                                             | 5714.84              | 62.14               | -6.16                   | 68.3                        | 53.98                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 360                     | P                       | H               |
|                                        |                                                                                             | 5724.52              | 62.04               | -16.26                  | 78.3                        | 53.84                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 360                     | P                       | H               |
|                                        | *                                                                                           | 5773                 | 97.52               | -                       | -                           | 89.27                     | 32.57                         | 8.35                    | 32.67                      | 100                  | 360                     | P                       | H               |
|                                        |                                                                                             | 5773                 | 90.37               | -                       | -                           | 82.12                     | 32.57                         | 8.35                    | 32.67                      | 100                  | 360                     | A                       | H               |
|                                        |                                                                                             | 5855.12              | 54.59               | -23.71                  | 78.3                        | 46.24                     | 32.62                         | 8.43                    | 32.7                       | 100                  | 360                     | P                       | H               |
|                                        |                                                                                             | 5865.12              | 52.37               | -15.93                  | 68.3                        | 44.03                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 360                     | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 5711.96              | 61.47               | -6.83                   | 68.3                        | 53.31                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 11                      | P                       | V               |
|                                        |                                                                                             | 5724.36              | 61.72               | -16.58                  | 78.3                        | 53.52                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 11                      | P                       | V               |
|                                        | *                                                                                           | 5773                 | 96.34               | -                       | -                           | 88.09                     | 32.57                         | 8.35                    | 32.67                      | 100                  | 11                      | P                       | V               |
|                                        |                                                                                             | 5773                 | 89.65               | -                       | -                           | 81.4                      | 32.57                         | 8.35                    | 32.67                      | 100                  | 11                      | A                       | V               |
|                                        |                                                                                             | 5855.2               | 53.73               | -24.57                  | 78.3                        | 45.38                     | 32.62                         | 8.43                    | 32.7                       | 100                  | 11                      | P                       | V               |
|                                        |                                                                                             | 5860.4               | 51.19               | -17.11                  | 68.3                        | 42.85                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 11                      | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (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) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11ac<br/>VHT80<br/>CH 155<br/>5775MHz</b> |                                                                                             | 11550                | 45.97               | -28.03                  | 74                          | 56.2                      | 39.91                         | 12.62                   | 62.76                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             | 17325                | 46.27               | -22.03                  | 68.3                        | 49.42                     | 41.29                         | 15.75                   | 60.19                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             | 11550                | 45.24               | -28.76                  | 74                          | 55.47                     | 39.91                         | 12.62                   | 62.76                      | 100                  | 0                       | P                     | V             |
|                                                  |                                                                                             | 17325                | 45.99               | -22.31                  | 68.3                        | 49.14                     | 41.29                         | 15.75                   | 60.19                      | 100                  | 0                       | P                     | V             |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       |               |

### Emission below 1GHz

**5GHz WIFI 802.11n HT40 (LF @ 3m)**

| 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) |
| 5GHz<br>802.11n<br>HT40<br>LF |                                                                            | 72.12     | 35.33      | -4.67  | 40         | 54.47  | 12.64    | 0.93   | 32.71  | 100    | 334     | P     | H     |
|                               |                                                                            | 143.94    | 32.93      | -10.57 | 43.5       | 46.55  | 17.72    | 1.33   | 32.67  | -      | -       | P     | H     |
|                               |                                                                            | 214.95    | 33.94      | -9.56  | 43.5       | 48.85  | 16.2     | 1.62   | 32.73  | -      | -       | P     | H     |
|                               |                                                                            | 768.3     | 34.07      | -11.93 | 46         | 36.1   | 27.92    | 2.97   | 32.92  | -      | -       | P     | H     |
|                               |                                                                            | 798.4     | 35.78      | -10.22 | 46         | 37.41  | 28.28    | 2.97   | 32.88  | -      | -       | P     | H     |
|                               |                                                                            | 815.9     | 35.45      | -10.55 | 46         | 36.68  | 28.49    | 3.07   | 32.79  | -      | -       | P     | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            | 52.68     | 33.34      | -6.66  | 40         | 50.88  | 14.3     | 0.93   | 32.77  | 100    | 51      | P     | V     |
|                               |                                                                            | 53.49     | 32.99      | -7.01  | 40         | 50.83  | 14       | 0.93   | 32.77  | -      | -       | P     | V     |
|                               |                                                                            | 72.12     | 30.1       | -9.9   | 40         | 49.24  | 12.64    | 0.93   | 32.71  | -      | -       | P     | V     |
|                               |                                                                            | 750.1     | 29.44      | -16.56 | 46         | 31.77  | 27.7     | 2.91   | 32.94  | -      | -       | P     | V     |
|                               |                                                                            | 799.8     | 31.97      | -14.03 | 46         | 33.58  | 28.3     | 2.97   | 32.88  | -      | -       | P     | V     |
|                               |                                                                            | 945.4     | 31.94      | -14.06 | 46         | 29.98  | 30.49    | 3.29   | 31.82  | -      | -       | 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”.**





## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>2                    | 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 151<br>5755MHz |      | 5714.92              | 58.1                | -15.9                   | 74                          | 49.94                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 300                     | P                       | H               |
|                                      |      | 5719.32              | 59.49               | -18.81                  | 78.3                        | 51.32                     | 32.53                         | 8.3                     | 32.66                      | 100                  | 300                     | P                       | H               |
|                                      |      | 5715                 | 49.33               | -4.67                   | 54                          | 41.17                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 300                     | A                       | H               |
|                                      | *    | 5753                 | 104.05              | -                       | -                           | 95.83                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 300                     | P                       | H               |
|                                      | *    | 5753                 | 97.51               | -                       | -                           | 89.29                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 300                     | A                       | H               |
|                                      |      | 5851.36              | 49.05               | -29.25                  | 78.3                        | 40.71                     | 32.61                         | 8.43                    | 32.7                       | 100                  | 300                     | P                       | H               |
|                                      |      | 5877.2               | 48.52               | -25.48                  | 74                          | 40.17                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 300                     | P                       | H               |
|                                      |      | 5864.56              | 40.87               | -13.13                  | 54                          | 32.53                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 300                     | A                       | H               |
|                                      |      | 5714.84              | 49.79               | -24.21                  | 74                          | 41.63                     | 32.52                         | 8.3                     | 32.66                      | 104                  | 14                      | P                       | V               |
|                                      |      | 5722.92              | 51.58               | -26.72                  | 78.3                        | 43.38                     | 32.53                         | 8.33                    | 32.66                      | 104                  | 14                      | P                       | V               |
|                                      |      | 5714.92              | 43.02               | -10.98                  | 54                          | 34.86                     | 32.52                         | 8.3                     | 32.66                      | 104                  | 14                      | A                       | V               |
|                                      | *    | 5753                 | 95.83               | -                       | -                           | 87.61                     | 32.56                         | 8.33                    | 32.67                      | 104                  | 14                      | P                       | V               |
|                                      | *    | 5753                 | 89.5                | -                       | -                           | 81.28                     | 32.56                         | 8.33                    | 32.67                      | 104                  | 14                      | A                       | V               |
|                                      |      | 5851.52              | 48.02               | -30.28                  | 78.3                        | 39.68                     | 32.61                         | 8.43                    | 32.7                       | 104                  | 14                      | P                       | V               |
|                                      |      | 5875.92              | 47.89               | -26.11                  | 74                          | 39.54                     | 32.63                         | 8.43                    | 32.71                      | 104                  | 14                      | P                       | V               |
|                                      |      | 5881.92              | 40.07               | -13.93                  | 54                          | 31.68                     | 32.63                         | 8.47                    | 32.71                      | 104                  | 14                      | A                       | V               |

**Band 4 5725~5850MHz****WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>2                              | 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 151<br/>5755MHz</b> |                                                                                             | 11510                | 45.48               | -28.52                  | 74                          | 55.7                      | 40                            | 12.58                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                                                |                                                                                             | 17265                | 44.84               | -29.16                  | 74                          | 48.19                     | 41.15                         | 15.66                   | 60.16                      | 100                  | 0                       | P                       | H               |
|                                                |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                |                                                                                             | 11510                | 45.8                | -28.2                   | 74                          | 56.02                     | 40                            | 12.58                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                                                |                                                                                             | 17265                | 44.86               | -29.14                  | 74                          | 48.21                     | 41.15                         | 15.66                   | 60.16                      | 100                  | 0                       | P                       | V               |
|                                                |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                                |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>Remark</b>                                  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

### Emission below 1GHz

**5GHz WIFI 802.11n HT40 (LF @ 3m)**

| WIFI                          | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|-------------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                          |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 2                             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 5GHz<br>802.11n<br>HT40<br>LF |                                                                            | 53.22     | 31.26      | -8.74  | 40         | 49.1   | 14       | 0.93   | 32.77  | -      | -       | P     | H     |
|                               |                                                                            | 72.12     | 34.92      | -5.08  | 40         | 54.06  | 12.64    | 0.93   | 32.71  | 100    | 354     | P     | H     |
|                               |                                                                            | 214.95    | 33.4       | -10.1  | 43.5       | 48.31  | 16.2     | 1.62   | 32.73  | -      | -       | P     | H     |
|                               |                                                                            | 796.3     | 35.53      | -10.47 | 46         | 37.19  | 28.25    | 2.97   | 32.88  | -      | -       | P     | H     |
|                               |                                                                            | 815.9     | 34.83      | -11.17 | 46         | 36.06  | 28.49    | 3.07   | 32.79  | -      | -       | P     | H     |
|                               |                                                                            | 911.8     | 33.89      | -12.11 | 46         | 33.34  | 29.53    | 3.2    | 32.18  | -      | -       | P     | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            | 52.95     | 33.33      | -6.67  | 40         | 51.17  | 14       | 0.93   | 32.77  | 100    | 46      | P     | V     |
|                               |                                                                            | 53.76     | 33.11      | -6.89  | 40         | 50.95  | 14       | 0.93   | 32.77  | -      | -       | P     | V     |
|                               |                                                                            | 59.7      | 30.02      | -9.98  | 40         | 49.94  | 11.9     | 0.93   | 32.75  | -      | -       | P     | V     |
|                               |                                                                            | 815.9     | 31.81      | -14.19 | 46         | 33.04  | 28.49    | 3.07   | 32.79  | -      | -       | P     | V     |
|                               |                                                                            | 936.3     | 32         | -14    | 46         | 30.4   | 30.22    | 3.29   | 31.91  | -      | -       | P     | V     |
|                               |                                                                            | 943.3     | 31.79      | -14.21 | 46         | 29.9   | 30.44    | 3.29   | 31.84  | -      | -       | 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>P</b> eak or <b>A</b> verage                                                                                                                          |
| H/V | <b>H</b> orizontal or <b>V</b> ertical                                                                                                                   |

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.    |         |
| 2       |      | ( 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       |

3. Level(dBμV/m) =

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

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

**For Peak Limit @ 2390MHz:**

3. 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)

4. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

3. 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)

4. 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”.**

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                  | 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 149<br>5745MHz |      | 5711.48              | 56.35               | -17.65                  | 74                          | 48.19                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 298                     | P                       | H               |
|                                      |      | 5724.76              | 68.13               | -10.17                  | 78.3                        | 59.93                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 298                     | P                       | H               |
|                                      |      | 5715                 | 48.98               | -5.02                   | 54                          | 40.82                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 298                     | A                       | H               |
|                                      | *    | 5747                 | 107.7               | -                       | -                           | 99.5                      | 32.54                         | 8.33                    | 32.67                      | 100                  | 298                     | P                       | H               |
|                                      | *    | 5747                 | 101.63              | -                       | -                           | 93.43                     | 32.54                         | 8.33                    | 32.67                      | 100                  | 298                     | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 5714.36              | 50.73               | -23.27                  | 74                          | 42.57                     | 32.52                         | 8.3                     | 32.66                      | 105                  | 13                      | P                       | V               |
|                                      |      | 5723.88              | 57.7                | -20.6                   | 78.3                        | 49.5                      | 32.53                         | 8.33                    | 32.66                      | 105                  | 13                      | P                       | V               |
|                                      |      | 5710.84              | 43.73               | -10.27                  | 54                          | 35.57                     | 32.52                         | 8.3                     | 32.66                      | 105                  | 13                      | A                       | V               |
|                                      | *    | 5747                 | 101.85              | -                       | -                           | 93.65                     | 32.54                         | 8.33                    | 32.67                      | 105                  | 13                      | P                       | V               |
|                                      | *    | 5747                 | 95.69               | -                       | -                           | 87.49                     | 32.54                         | 8.33                    | 32.67                      | 105                  | 13                      | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1+2                            | 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/>HT20<br/>CH 157<br/>5785MHz</b> |      | 5714.76              | 55.67               | -18.33                  | 74                          | 47.51                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 299                     | P                       | H               |
|                                                |      | 5722.6               | 56.42               | -21.88                  | 78.3                        | 48.22                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 299                     | P                       | H               |
|                                                |      | 5712.04              | 48.52               | -5.48                   | 54                          | 40.36                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 299                     | A                       | H               |
|                                                | *    | 5787                 | 108.13              | -                       | -                           | 99.88                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 299                     | P                       | H               |
|                                                | *    | 5787                 | 102.03              | -                       | -                           | 93.78                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 299                     | A                       | H               |
|                                                |      | 5858.64              | 51.28               | -27.02                  | 78.3                        | 42.94                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 299                     | P                       | H               |
|                                                |      | 5865.04              | 50.98               | -23.02                  | 74                          | 42.64                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 299                     | P                       | H               |
|                                                |      | 5861.36              | 43.48               | -10.52                  | 54                          | 35.14                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 299                     | A                       | H               |
|                                                |      | 5703.8               | 52.46               | -21.54                  | 74                          | 44.29                     | 32.52                         | 8.3                     | 32.65                      | 100                  | 11                      | P                       | V               |
|                                                |      | 5715.32              | 51.57               | -26.73                  | 78.3                        | 43.41                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 11                      | P                       | V               |
|                                                |      | 5708.76              | 44.16               | -9.84                   | 54                          | 36                        | 32.52                         | 8.3                     | 32.66                      | 100                  | 11                      | A                       | V               |
|                                                | *    | 5786                 | 102.89              | -                       | -                           | 94.64                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 11                      | P                       | V               |
|                                                | *    | 5786                 | 95.52               | -                       | -                           | 87.27                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 11                      | A                       | V               |
|                                                |      | 5851.28              | 48.46               | -29.84                  | 78.3                        | 40.12                     | 32.61                         | 8.43                    | 32.7                       | 100                  | 11                      | P                       | V               |
|                                                |      | 5862.24              | 49.35               | -24.65                  | 74                          | 41.01                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 11                      | P                       | V               |
|                                                |      | 5884.72              | 40.89               | -13.11                  | 54                          | 32.51                     | 32.63                         | 8.47                    | 32.72                      | 100                  | 11                      | A                       | V               |



| WIFI<br>Ant.<br>1+2                  | 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 165<br>5825MHz | *                                                                                           | 5827                 | 108.98              | -                       | -                           | 100.68                    | 32.6                          | 8.39                    | 32.69                      | 100                  | 298                     | P                       | H               |
|                                      | *                                                                                           | 5827                 | 103                 | -                       | -                           | 94.7                      | 32.6                          | 8.39                    | 32.69                      | 100                  | 298                     | A                       | H               |
|                                      |                                                                                             | 5853.68              | 59.45               | -18.85                  | 78.3                        | 51.1                      | 32.62                         | 8.43                    | 32.7                       | 100                  | 298                     | P                       | H               |
|                                      |                                                                                             | 5860.72              | 54.94               | -19.06                  | 74                          | 46.6                      | 32.62                         | 8.43                    | 32.71                      | 100                  | 298                     | P                       | H               |
|                                      |                                                                                             | 5863.2               | 45.76               | -8.24                   | 54                          | 37.42                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 298                     | A                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      | *                                                                                           | 5824                 | 102.95              | -                       | -                           | 94.65                     | 32.6                          | 8.39                    | 32.69                      | 100                  | 344                     | P                       | V               |
|                                      | *                                                                                           | 5824                 | 97.06               | -                       | -                           | 88.76                     | 32.6                          | 8.39                    | 32.69                      | 100                  | 344                     | A                       | V               |
|                                      |                                                                                             | 5856.16              | 56.68               | -21.62                  | 78.3                        | 48.33                     | 32.62                         | 8.43                    | 32.7                       | 100                  | 344                     | P                       | V               |
|                                      |                                                                                             | 5860.32              | 51.37               | -22.63                  | 74                          | 43.03                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 344                     | P                       | V               |
|                                      |                                                                                             | 5861.92              | 42.61               | -11.39                  | 54                          | 34.27                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 344                     | A                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |





## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1+2                  | 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 149<br>5745MHz |                                                                                             | 11490                | 46.29               | -27.71                  | 74                          | 56.5                      | 40.01                         | 12.58                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17235                | 46.51               | -27.49                  | 74                          | 49.94                     | 41.05                         | 15.66                   | 60.14                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11490                | 46.04               | -27.96                  | 74                          | 56.25                     | 40.01                         | 12.58                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17235                | 49.25               | -24.75                  | 74                          | 52.68                     | 41.05                         | 15.66                   | 60.14                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 157<br>5785MHz |                                                                                             | 11570                | 46.69               | -27.31                  | 74                          | 56.89                     | 39.88                         | 12.66                   | 62.74                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17355                | 46.52               | -27.48                  | 74                          | 49.56                     | 41.38                         | 15.79                   | 60.21                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11570                | 47.51               | -26.49                  | 74                          | 57.71                     | 39.88                         | 12.66                   | 62.74                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17355                | 46.27               | -27.73                  | 74                          | 49.31                     | 41.38                         | 15.79                   | 60.21                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 165<br>5825MHz |                                                                                             | 11650                | 45.3                | -28.7                   | 74                          | 55.51                     | 39.75                         | 12.73                   | 62.69                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17475                | 50.08               | -23.92                  | 74                          | 52.72                     | 41.71                         | 15.93                   | 60.28                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11650                | 46.18               | -27.82                  | 74                          | 56.39                     | 39.75                         | 12.73                   | 62.69                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17475                | 48.36               | -25.64                  | 74                          | 51                        | 41.71                         | 15.93                   | 60.28                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1+2                  | 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 151<br>5755MHz |      | 5714.68              | 59.92               | -14.08                  | 74                          | 51.76                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 299                     | P                       | H               |
|                                      |      | 5724.84              | 64.03               | -14.27                  | 78.3                        | 55.83                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 299                     | P                       | H               |
|                                      |      | 5715                 | 52.26               | -1.74                   | 54                          | 44.1                      | 32.52                         | 8.3                     | 32.66                      | 100                  | 299                     | A                       | H               |
|                                      | *    | 5757                 | 106.65              | -                       | -                           | 98.43                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 299                     | P                       | H               |
|                                      | *    | 5757                 | 99.05               | -                       | -                           | 90.83                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 299                     | A                       | H               |
|                                      |      | 5851.92              | 50.68               | -27.62                  | 78.3                        | 42.34                     | 32.61                         | 8.43                    | 32.7                       | 100                  | 299                     | P                       | H               |
|                                      |      | 5863.12              | 49.48               | -24.52                  | 74                          | 41.14                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 299                     | P                       | H               |
|                                      |      | 5860.56              | 42.08               | -11.92                  | 54                          | 33.74                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 299                     | A                       | H               |
|                                      |      | 5713.16              | 56.6                | -17.4                   | 74                          | 48.44                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 9                       | P                       | V               |
|                                      |      | 5723.08              | 60.17               | -18.13                  | 78.3                        | 51.97                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 9                       | P                       | V               |
|                                      |      | 5715                 | 47.74               | -6.26                   | 54                          | 39.58                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 9                       | A                       | V               |
|                                      | *    | 5753                 | 98.1                | -                       | -                           | 89.88                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 9                       | P                       | V               |
|                                      | *    | 5753                 | 92.18               | -                       | -                           | 83.96                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 9                       | A                       | V               |
|                                      |      | 5856.08              | 48.74               | -29.56                  | 78.3                        | 40.39                     | 32.62                         | 8.43                    | 32.7                       | 100                  | 9                       | P                       | V               |
|                                      |      | 5864.32              | 47.74               | -26.26                  | 74                          | 39.4                      | 32.62                         | 8.43                    | 32.71                      | 100                  | 9                       | P                       | V               |
|                                      |      | 5864.48              | 40.3                | -13.7                   | 54                          | 31.96                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 9                       | A                       | V               |



| WIFI<br>Ant.<br>1+2                  | 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 159<br>5795MHz |                                                                                             | 5711.64              | 56.83               | -17.17                  | 74                          | 48.67                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 298                     | P                     | H             |
|                                      |                                                                                             | 5717.48              | 56.71               | -21.59                  | 78.3                        | 48.55                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 298                     | P                     | H             |
|                                      |                                                                                             | 5709.48              | 48.47               | -5.53                   | 54                          | 40.31                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 298                     | A                     | H             |
|                                      | *                                                                                           | 5793                 | 106.18              | -                       | -                           | 97.93                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 298                     | P                     | H             |
|                                      | *                                                                                           | 5793                 | 99.05               | -                       | -                           | 90.8                      | 32.58                         | 8.35                    | 32.68                      | 100                  | 298                     | A                     | H             |
|                                      |                                                                                             | 5857.6               | 52.57               | -25.73                  | 78.3                        | 44.22                     | 32.62                         | 8.43                    | 32.7                       | 100                  | 298                     | P                     | H             |
|                                      |                                                                                             | 5874.32              | 52.3                | -21.7                   | 74                          | 43.95                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 298                     | P                     | H             |
|                                      |                                                                                             | 5861.6               | 43.77               | -10.23                  | 54                          | 35.43                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 298                     | A                     | H             |
|                                      |                                                                                             | 5714.76              | 51.64               | -22.36                  | 74                          | 43.48                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 13                      | P                     | V             |
|                                      |                                                                                             | 5716.84              | 52.49               | -25.81                  | 78.3                        | 44.33                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 13                      | P                     | V             |
|                                      |                                                                                             | 5708.84              | 44.41               | -9.59                   | 54                          | 36.25                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 13                      | A                     | V             |
|                                      | *                                                                                           | 5793                 | 98.94               | -                       | -                           | 90.69                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 13                      | P                     | V             |
|                                      | *                                                                                           | 5793                 | 93.04               | -                       | -                           | 84.79                     | 32.58                         | 8.35                    | 32.68                      | 100                  | 13                      | A                     | V             |
|                                      |                                                                                             | 5852.16              | 49.08               | -29.22                  | 78.3                        | 40.74                     | 32.61                         | 8.43                    | 32.7                       | 100                  | 13                      | P                     | V             |
|                                      |                                                                                             | 5879.04              | 49.47               | -24.53                  | 74                          | 41.12                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 13                      | P                     | V             |
|                                      |                                                                                             | 5876.64              | 41.39               | -12.61                  | 54                          | 33.04                     | 32.63                         | 8.43                    | 32.71                      | 100                  | 13                      | A                     | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       |               |



## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1+2                  | 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 151<br>5755MHz |                                                                                             | 11510                | 46.5                | -27.5                   | 74                          | 56.72                     | 40                            | 12.58                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17265                | 46.02               | -27.98                  | 74                          | 49.37                     | 41.15                         | 15.66                   | 60.16                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11510                | 46.5                | -27.5                   | 74                          | 56.72                     | 40                            | 12.58                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17265                | 46.21               | -27.79                  | 74                          | 49.56                     | 41.15                         | 15.66                   | 60.16                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 11590                | 45.15               | -28.85                  | 74                          | 55.38                     | 39.84                         | 12.66                   | 62.73                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17385                | 46.24               | -27.76                  | 74                          | 49.21                     | 41.47                         | 15.79                   | 60.23                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11590                | 45.78               | -28.22                  | 74                          | 56.01                     | 39.84                         | 12.66                   | 62.73                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17385                | 48.24               | -25.76                  | 74                          | 51.21                     | 41.47                         | 15.79                   | 60.23                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**Band 4 5725~5850MHz**

**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                              | 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>802.11ac<br/>VHT80<br/>CH 155<br/>5775MHz</b> |                                                                                             | 5710.84              | 66.61               | -1.69                   | 68.3                        | 58.45                     | 32.52                         | 8.3                     | 32.66                      | 100                  | 298                     | P                       | H               |
|                                                  |                                                                                             | 5724.92              | 67.05               | -11.25                  | 78.3                        | 58.85                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 298                     | P                       | H               |
|                                                  | *                                                                                           | 5773                 | 105.66              | -                       | -                           | 97.41                     | 32.57                         | 8.35                    | 32.67                      | 100                  | 298                     | P                       | H               |
|                                                  |                                                                                             | 5773                 | 98.49               | -                       | -                           | 90.24                     | 32.57                         | 8.35                    | 32.67                      | 100                  | 298                     | A                       | H               |
|                                                  |                                                                                             | 5850.56              | 60.26               | -18.04                  | 78.3                        | 51.92                     | 32.61                         | 8.43                    | 32.7                       | 100                  | 298                     | P                       | H               |
|                                                  |                                                                                             | 5865.2               | 57.48               | -10.82                  | 68.3                        | 49.14                     | 32.62                         | 8.43                    | 32.71                      | 100                  | 298                     | P                       | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             | 5714.6               | 60.14               | -8.16                   | 68.3                        | 51.98                     | 32.52                         | 8.3                     | 32.66                      | 106                  | 14                      | P                       | V               |
|                                                  |                                                                                             | 5723.72              | 63.44               | -14.86                  | 78.3                        | 55.24                     | 32.53                         | 8.33                    | 32.66                      | 106                  | 14                      | P                       | V               |
|                                                  | *                                                                                           | 5773                 | 96.91               | -                       | -                           | 88.66                     | 32.57                         | 8.35                    | 32.67                      | 106                  | 14                      | P                       | V               |
|                                                  |                                                                                             | 5773                 | 92.87               | -                       | -                           | 84.62                     | 32.57                         | 8.35                    | 32.67                      | 106                  | 14                      | A                       | V               |
|                                                  |                                                                                             | 5852.72              | 54.3                | -24                     | 78.3                        | 45.96                     | 32.61                         | 8.43                    | 32.7                       | 106                  | 14                      | P                       | V               |
|                                                  |                                                                                             | 5862.24              | 50.69               | -17.61                  | 68.3                        | 42.35                     | 32.62                         | 8.43                    | 32.71                      | 106                  | 14                      | P                       | V               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                              | 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>802.11ac<br/>VHT80<br/>CH 155<br/>5775MHz</b> |                                                                                             | 11550                | 45.53               | -28.47                  | 74                          | 55.76                     | 39.91                         | 12.62                   | 62.76                      | 100                  | 0                       | P                       | H               |
|                                                  |                                                                                             | 17325                | 45.94               | -22.36                  | 68.3                        | 49.09                     | 41.29                         | 15.75                   | 60.19                      | 100                  | 0                       | P                       | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             | 11550                | 45.4                | -28.6                   | 74                          | 55.63                     | 39.91                         | 12.62                   | 62.76                      | 100                  | 0                       | P                       | V               |
|                                                  |                                                                                             | 17325                | 47.03               | -21.27                  | 68.3                        | 50.18                     | 41.29                         | 15.75                   | 60.19                      | 100                  | 0                       | P                       | V               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Emission below 1GHz

## 5GHz WIFI 802.11ac VHT80 (LF @ 3m)

| 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+2                             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 5GHz<br>802.11ac<br>VHT80<br>LF |                                                                            | 53.76     | 30.29      | -9.71  | 40         | 48.13    | 14       | 0.93   | 32.77  | -      | -       | P       | H       |
|                                 |                                                                            | 71.58     | 31.51      | -8.49  | 40         | 50.66    | 12.64    | 0.93   | 32.72  | 100    | 322     | P       | H       |
|                                 |                                                                            | 214.95    | 34.04      | -9.46  | 43.5       | 48.95    | 16.2     | 1.62   | 32.73  | -      | -       | P       | H       |
|                                 |                                                                            | 768.3     | 33.98      | -12.02 | 46         | 36.01    | 27.92    | 2.97   | 32.92  | -      | -       | P       | H       |
|                                 |                                                                            | 799.8     | 34.74      | -11.26 | 46         | 36.35    | 28.3     | 2.97   | 32.88  | -      | -       | P       | H       |
|                                 |                                                                            | 815.9     | 36.37      | -9.63  | 46         | 37.6     | 28.49    | 3.07   | 32.79  | -      | -       | P       | H       |
|                                 |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                 |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                 |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                 |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                 |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                 |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                 |                                                                            | 53.76     | 32.05      | -7.95  | 40         | 49.89    | 14       | 0.93   | 32.77  | 100    | 27      | P       | V       |
|                                 |                                                                            | 72.12     | 29.51      | -10.49 | 40         | 48.65    | 12.64    | 0.93   | 32.71  | -      | -       | P       | V       |
|                                 |                                                                            | 150.42    | 28.95      | -14.55 | 43.5       | 42.9     | 17.4     | 1.33   | 32.68  | -      | -       | P       | V       |
|                                 |                                                                            | 857.2     | 31.17      | -14.83 | 46         | 31.62    | 28.95    | 3.16   | 32.56  | -      | -       | P       | V       |
|                                 |                                                                            | 917.4     | 32.03      | -13.97 | 46         | 31.26    | 29.69    | 3.2    | 32.12  | -      | -       | P       | V       |
|                                 |                                                                            | 946.8     | 31.97      | -14.03 | 46         | 29.95    | 30.52    | 3.29   | 31.79  | -      | -       | 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+2     |      | ( 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       |

5. Level(dBμV/m) =

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

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

**For Peak Limit @ 2390MHz:**

5. 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)

6. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

5. 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)

6. 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”.**