



## Appendix A. Radiated Spurious Emission

|                 |                                   |                     |         |
|-----------------|-----------------------------------|---------------------|---------|
| Test Engineer : | Karl Hou, Kyle Jhuang and Jet Lui | Temperature :       | 25~26°C |
|                 |                                   | Relative Humidity : | 50~51%  |

## Band 1 - 5150~5250MHz

## WIFI 802.11a (Band Edge @ 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 ) |
| 802.11a<br>CH 36<br>5180MHz |      | 5146.1    | 68.18      | -5.82  | 74         | 58.57    | 35.18    | 6.72   | 32.29  | 184    | 1       | P       | H       |
|                             |      | 5148.95   | 51.99      | -2.01  | 54         | 42.38    | 35.18    | 6.72   | 32.29  | 184    | 1       | A       | H       |
|                             | *    | 5180      | 114.04     | -      | -          | 104.37   | 35.22    | 6.73   | 32.28  | 184    | 1       | P       | H       |
|                             | *    | 5180      | 103.59     | -      | -          | 93.92    | 35.22    | 6.73   | 32.28  | 184    | 1       | A       | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      | 5146.55   | 69.67      | -4.33  | 74         | 60.06    | 35.18    | 6.72   | 32.29  | 100    | 20      | P       | V       |
|                             |      | 5149.7    | 51.35      | -2.65  | 54         | 41.74    | 35.18    | 6.72   | 32.29  | 100    | 20      | A       | V       |
|                             | *    | 5182      | 112.82     | -      | -          | 103.15   | 35.22    | 6.73   | 32.28  | 100    | 20      | P       | V       |
|                             | *    | 5182      | 103.14     | -      | -          | 93.47    | 35.22    | 6.73   | 32.28  | 100    | 20      | A       | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 44<br>5220MHz |      | 5145.2    | 54.14      | -19.86 | 74         | 44.53    | 35.18    | 6.72   | 32.29  | 115    | 335     | P       | H       |
|                             |      | 5146.7    | 43.53      | -10.47 | 54         | 33.92    | 35.18    | 6.72   | 32.29  | 115    | 335     | A       | H       |
|                             | *    | 5222      | 95.76      | -      | -          | 86.01    | 35.26    | 6.76   | 32.27  | 115    | 335     | A       | H       |
|                             | *    | 5222      | 105.3      | -      | -          | 95.55    | 35.26    | 6.76   | 32.27  | 115    | 335     | P       | H       |
|                             |      | 5424.25   | 52.02      | -21.98 | 74         | 41.83    | 35.5     | 6.9    | 32.21  | 115    | 335     | P       | H       |
|                             |      | 5437.45   | 42.68      | -11.32 | 54         | 32.45    | 35.52    | 6.92   | 32.21  | 115    | 335     | A       | H       |
|                             |      | 5130.5    | 55.73      | -18.27 | 74         | 46.15    | 35.16    | 6.71   | 32.29  | 109    | 351     | P       | V       |
|                             |      | 5144.3    | 44.78      | -9.22  | 54         | 35.17    | 35.18    | 6.72   | 32.29  | 109    | 351     | A       | V       |
|                             | *    | 5221      | 101.53     | -      | -          | 91.78    | 35.26    | 6.76   | 32.27  | 109    | 351     | A       | V       |
|                             | *    | 5221      | 111.03     | -      | -          | 101.28   | 35.26    | 6.76   | 32.27  | 109    | 351     | P       | V       |
|                             |      | 5352.75   | 56.1       | -17.9  | 74         | 46.08    | 35.42    | 6.83   | 32.23  | 109    | 351     | P       | V       |
|                             |      | 5437.45   | 44.36      | -9.64  | 54         | 34.13    | 35.52    | 6.92   | 32.21  | 109    | 351     | A       | V       |



|                                                  |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5144.15 | 57.33  | -16.67 | 74 | 47.72  | 35.18 | 6.72 | 32.29 | 110 | 357 | P | H |
|                                                  |                                                                                             | 5149.4  | 46     | -8     | 54 | 36.39  | 35.18 | 6.72 | 32.29 | 110 | 357 | A | H |
|                                                  | *                                                                                           | 5239    | 113.13 | -      | -  | 103.34 | 35.28 | 6.77 | 32.26 | 110 | 357 | P | H |
|                                                  | *                                                                                           | 5239    | 103.01 | -      | -  | 93.22  | 35.28 | 6.77 | 32.26 | 110 | 357 | A | H |
|                                                  |                                                                                             | 5453.4  | 55.42  | -18.58 | 74 | 45.14  | 35.54 | 6.94 | 32.2  | 110 | 357 | P | H |
|                                                  |                                                                                             | 5458.46 | 45.12  | -8.88  | 54 | 34.84  | 35.54 | 6.94 | 32.2  | 110 | 357 | A | H |
|                                                  |                                                                                             | 5144.75 | 58.83  | -15.17 | 74 | 49.22  | 35.18 | 6.72 | 32.29 | 100 | 34  | P | V |
|                                                  |                                                                                             | 5142.65 | 46.12  | -7.88  | 54 | 36.51  | 35.18 | 6.72 | 32.29 | 100 | 34  | A | V |
|                                                  | *                                                                                           | 5241    | 111.64 | -      | -  | 101.85 | 35.28 | 6.77 | 32.26 | 100 | 34  | P | V |
|                                                  | *                                                                                           | 5241    | 100.9  | -      | -  | 91.11  | 35.28 | 6.77 | 32.26 | 100 | 34  | A | V |
|                                                  |                                                                                             | 5364.19 | 53.58  | -20.42 | 74 | 43.52  | 35.44 | 6.85 | 32.23 | 100 | 34  | P | V |
|                                                  |                                                                                             | 5350    | 43.26  | -10.74 | 54 | 33.24  | 35.42 | 6.83 | 32.23 | 100 | 34  | A | V |
| Remark                                           | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 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) |
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 10360     | 43.39      | -30.61 | 74         | 52.57  | 38.2     | 9.8    | 57.18  | 100    | 0       | P     | H     |
|                             |                                                                                             | 15540     | 46.36      | -27.64 | 74         | 52.18  | 40.64    | 11.81  | 58.27  | 100    | 0       | P     | H     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                             | 10360     | 43.25      | -30.75 | 74         | 52.43  | 38.2     | 9.8    | 57.18  | 100    | 0       | P     | V     |
|                             |                                                                                             | 15540     | 45.47      | -28.53 | 74         | 51.29  | 40.64    | 11.81  | 58.27  | 100    | 0       | P     | V     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440     | 43.59      | -30.41 | 74         | 52.71  | 38.2     | 9.82   | 57.14  | 100    | 0       | P     | H     |
|                             |                                                                                             | 15660     | 45.96      | -28.04 | 74         | 51.55  | 40.79    | 11.8   | 58.18  | 100    | 0       | P     | H     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                             | 10440     | 43.1       | -30.9  | 74         | 52.22  | 38.2     | 9.82   | 57.14  | 100    | 0       | P     | V     |
|                             |                                                                                             | 15660     | 45.8       | -28.2  | 74         | 51.39  | 40.79    | 11.8   | 58.18  | 100    | 0       | P     | V     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480     | 42.87      | -31.13 | 74         | 51.94  | 38.2     | 9.84   | 57.11  | 100    | 0       | P     | H     |
|                             |                                                                                             | 15720     | 46.12      | -27.88 | 74         | 51.57  | 40.87    | 11.8   | 58.12  | 100    | 0       | P     | H     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                             | 10480     | 43.51      | -30.49 | 74         | 52.58  | 38.2     | 9.84   | 57.11  | 100    | 0       | P     | V     |
|                             |                                                                                             | 15720     | 45.32      | -28.68 | 74         | 50.77  | 40.87    | 11.8   | 58.12  | 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 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 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 ) |
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5141.75   | 61.06      | -12.94 | 74         | 51.45    | 35.18    | 6.72   | 32.29  | 184    | 6       | P       | H       |
|                                     |      | 5140.25   | 48.9       | -5.1   | 54         | 39.29    | 35.18    | 6.72   | 32.29  | 184    | 6       | A       | H       |
|                                     | *    | 5181      | 109.89     | -      | -          | 100.22   | 35.22    | 6.73   | 32.28  | 184    | 6       | P       | H       |
|                                     | *    | 5181      | 99.68      | -      | -          | 90.01    | 35.22    | 6.73   | 32.28  | 184    | 6       | A       | H       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |      | 5148.95   | 61         | -13    | 74         | 51.39    | 35.18    | 6.72   | 32.29  | 100    | 21      | P       | V       |
|                                     |      | 5141.6    | 48.42      | -5.58  | 54         | 38.81    | 35.18    | 6.72   | 32.29  | 100    | 21      | A       | V       |
|                                     | *    | 5181      | 109.73     | -      | -          | 100.06   | 35.22    | 6.73   | 32.28  | 100    | 21      | P       | V       |
|                                     | *    | 5181      | 100.09     | -      | -          | 90.42    | 35.22    | 6.73   | 32.28  | 100    | 21      | A       | V       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5117.15   | 52.18      | -21.82 | 74         | 42.63    | 35.14    | 6.71   | 32.3   | 100    | 75      | P       | H       |
|                                     |      | 5148.05   | 42.29      | -11.71 | 54         | 32.68    | 35.18    | 6.72   | 32.29  | 100    | 75      | A       | H       |
|                                     | *    | 5221      | 93.74      | -      | -          | 83.99    | 35.26    | 6.76   | 32.27  | 100    | 75      | A       | H       |
|                                     | *    | 5221      | 103.27     | -      | -          | 93.52    | 35.26    | 6.76   | 32.27  | 100    | 75      | P       | H       |
|                                     |      | 5425.68   | 52.77      | -21.23 | 74         | 42.58    | 35.5     | 6.9    | 32.21  | 100    | 75      | P       | H       |
|                                     |      | 5437.56   | 42.81      | -11.19 | 54         | 32.58    | 35.52    | 6.92   | 32.21  | 100    | 75      | A       | H       |
|                                     |      | 5138      | 56.93      | -17.07 | 74         | 47.35    | 35.16    | 6.71   | 32.29  | 100    | 352     | P       | V       |
|                                     |      | 5146.55   | 45.8       | -8.2   | 54         | 36.19    | 35.18    | 6.72   | 32.29  | 100    | 352     | A       | V       |
|                                     | *    | 5221      | 100.63     | -      | -          | 90.88    | 35.26    | 6.76   | 32.27  | 100    | 352     | A       | V       |
|                                     | *    | 5221      | 110.68     | -      | -          | 100.93   | 35.26    | 6.76   | 32.27  | 100    | 352     | P       | V       |
|                                     |      | 5358.8    | 53.81      | -20.19 | 74         | 43.77    | 35.42    | 6.85   | 32.23  | 100    | 352     | P       | V       |
|                                     |      | 5358.47   | 43.32      | -10.68 | 54         | 33.28    | 35.42    | 6.85   | 32.23  | 100    | 352     | A       | V       |



|                                                                             |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><br><b>HT20</b><br><br><b>CH 48</b><br><br><b>5240MHz</b> |                                                                                             | 5142.65 | 54.89  | -19.11 | 74 | 45.28 | 35.18 | 6.72 | 32.29 | 183 | 327 | P | H |
|                                                                             |                                                                                             | 5148.5  | 44.31  | -9.69  | 54 | 34.7  | 35.18 | 6.72 | 32.29 | 183 | 327 | A | H |
|                                                                             | *                                                                                           | 5241    | 109.32 | -      | -  | 99.53 | 35.28 | 6.77 | 32.26 | 183 | 327 | P | H |
|                                                                             | *                                                                                           | 5241    | 99.76  | -      | -  | 89.97 | 35.28 | 6.77 | 32.26 | 183 | 327 | A | H |
|                                                                             |                                                                                             | 5458.46 | 56.46  | -17.54 | 74 | 46.18 | 35.54 | 6.94 | 32.2  | 183 | 327 | P | H |
|                                                                             |                                                                                             | 5458.35 | 46.3   | -7.7   | 54 | 36.02 | 35.54 | 6.94 | 32.2  | 183 | 327 | A | H |
|                                                                             |                                                                                             | 5144    | 55.72  | -18.28 | 74 | 46.11 | 35.18 | 6.72 | 32.29 | 100 | 30  | P | V |
|                                                                             |                                                                                             | 5143.1  | 44.5   | -9.5   | 54 | 34.89 | 35.18 | 6.72 | 32.29 | 100 | 30  | A | V |
|                                                                             | *                                                                                           | 5240    | 108.91 | -      | -  | 99.12 | 35.28 | 6.77 | 32.26 | 100 | 30  | P | V |
|                                                                             | *                                                                                           | 5240    | 98.99  | -      | -  | 89.2  | 35.28 | 6.77 | 32.26 | 100 | 30  | A | V |
|                                                                             |                                                                                             | 5350.33 | 53.37  | -20.63 | 74 | 43.35 | 35.42 | 6.83 | 32.23 | 100 | 30  | P | V |
|                                                                             |                                                                                             | 5350.11 | 43.2   | -10.8  | 54 | 33.18 | 35.42 | 6.83 | 32.23 | 100 | 30  | A | V |
| Remark                                                                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 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 ) |
| 802.11n<br>HT20<br>CH 36<br>5180MHz |                                                                                             | 10360     | 44.22      | -29.78 | 74         | 53.4     | 38.2     | 9.8    | 57.18  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15540     | 45.98      | -28.02 | 74         | 51.8     | 40.64    | 11.81  | 58.27  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10360     | 43.8       | -30.2  | 74         | 52.98    | 38.2     | 9.8    | 57.18  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15540     | 45.97      | -28.03 | 74         | 51.79    | 40.64    | 11.81  | 58.27  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |                                                                                             | 10440     | 43.18      | -30.82 | 74         | 52.3     | 38.2     | 9.82   | 57.14  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15660     | 46.45      | -27.55 | 74         | 52.04    | 40.79    | 11.8   | 58.18  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10440     | 43.93      | -30.07 | 74         | 53.05    | 38.2     | 9.82   | 57.14  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15660     | 45.68      | -28.32 | 74         | 51.27    | 40.79    | 11.8   | 58.18  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |                                                                                             | 10480     | 43.27      | -30.73 | 74         | 52.34    | 38.2     | 9.84   | 57.11  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15720     | 46.03      | -27.97 | 74         | 51.48    | 40.87    | 11.8   | 58.12  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10480     | 43.81      | -30.19 | 74         | 52.88    | 38.2     | 9.84   | 57.11  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15720     | 46.4       | -27.6  | 74         | 51.85    | 40.87    | 11.8   | 58.12  | 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 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 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 ) |
| 802.11n<br>HT40<br>CH 38<br>5190MHz |                                                                                             | 5150      | 67.15      | -6.85  | 74         | 57.54    | 35.18    | 6.72   | 32.29  | 100    | 6       | P       | H       |
|                                     |                                                                                             | 5150      | 52.54      | -1.46  | 54         | 42.93    | 35.18    | 6.72   | 32.29  | 100    | 6       | A       | H       |
|                                     | *                                                                                           | 5190      | 105.56     | -      | -          | 95.87    | 35.22    | 6.75   | 32.28  | 100    | 6       | P       | H       |
|                                     | *                                                                                           | 5190      | 95.26      | -      | -          | 85.57    | 35.22    | 6.75   | 32.28  | 100    | 6       | A       | H       |
|                                     |                                                                                             | 5457.58   | 52.73      | -21.27 | 74         | 42.45    | 35.54    | 6.94   | 32.2   | 100    | 6       | P       | H       |
|                                     |                                                                                             | 5452.41   | 42.77      | -11.23 | 54         | 32.49    | 35.54    | 6.94   | 32.2   | 100    | 6       | A       | H       |
|                                     |                                                                                             | 5150      | 65.32      | -8.68  | 74         | 55.71    | 35.18    | 6.72   | 32.29  | 100    | 24      | P       | V       |
|                                     |                                                                                             | 5149.85   | 50.42      | -3.58  | 54         | 40.81    | 35.18    | 6.72   | 32.29  | 100    | 24      | A       | V       |
|                                     | *                                                                                           | 5190      | 103.78     | -      | -          | 94.09    | 35.22    | 6.75   | 32.28  | 100    | 24      | P       | V       |
|                                     | *                                                                                           | 5190      | 93.7       | -      | -          | 84.01    | 35.22    | 6.75   | 32.28  | 100    | 24      | A       | V       |
|                                     |                                                                                             | 5384.32   | 52.88      | -21.12 | 74         | 42.76    | 35.46    | 6.88   | 32.22  | 100    | 24      | P       | V       |
|                                     |                                                                                             | 5361      | 42.76      | -11.24 | 54         | 32.7     | 35.44    | 6.85   | 32.23  | 100    | 24      | A       | V       |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 5142.2    | 57.62      | -16.38 | 74         | 48.01    | 35.18    | 6.72   | 32.29  | 100    | 326     | P       | H       |
|                                     |                                                                                             | 5150      | 45.86      | -8.14  | 54         | 36.25    | 35.18    | 6.72   | 32.29  | 100    | 326     | A       | H       |
|                                     | *                                                                                           | 5230      | 108.28     | -      | -          | 98.5     | 35.28    | 6.76   | 32.26  | 100    | 326     | P       | H       |
|                                     | *                                                                                           | 5230      | 98.59      | -      | -          | 88.81    | 35.28    | 6.76   | 32.26  | 100    | 326     | A       | H       |
|                                     |                                                                                             | 5351.65   | 53.64      | -20.36 | 74         | 43.62    | 35.42    | 6.83   | 32.23  | 100    | 326     | P       | H       |
|                                     |                                                                                             | 5360.23   | 42.84      | -11.16 | 54         | 32.8     | 35.42    | 6.85   | 32.23  | 100    | 326     | A       | H       |
|                                     |                                                                                             | 5141.3    | 55.36      | -18.64 | 74         | 45.75    | 35.18    | 6.72   | 32.29  | 100    | 340     | P       | V       |
|                                     |                                                                                             | 5150      | 44.36      | -9.64  | 54         | 34.75    | 35.18    | 6.72   | 32.29  | 100    | 340     | A       | V       |
|                                     | *                                                                                           | 5230      | 105.95     | -      | -          | 96.17    | 35.28    | 6.76   | 32.26  | 100    | 340     | P       | V       |
|                                     | *                                                                                           | 5230      | 96.05      | -      | -          | 86.27    | 35.28    | 6.76   | 32.26  | 100    | 340     | A       | V       |
|                                     |                                                                                             | 5351.43   | 53.78      | -20.22 | 74         | 43.76    | 35.42    | 6.83   | 32.23  | 100    | 340     | P       | V       |
|                                     |                                                                                             | 5360.78   | 43.24      | -10.76 | 54         | 33.18    | 35.44    | 6.85   | 32.23  | 100    | 340     | A       | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



**Band 1 5150~5250MHz**

**WIFI 802.11n HT40 (Harmonic @ 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) |
| 802.11n<br>HT40<br>CH 38<br>5190MHz |                                                                                             | 10380     | 44.37      | -29.63 | 74         | 53.53  | 38.2     | 9.81   | 57.17  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15570     | 45.29      | -28.71 | 74         | 51.04  | 40.68    | 11.81  | 58.24  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10380     | 43.62      | -30.38 | 74         | 52.78  | 38.2     | 9.81   | 57.17  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15570     | 45.88      | -28.12 | 74         | 51.63  | 40.68    | 11.81  | 58.24  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 10460     | 43.76      | -30.24 | 74         | 52.86  | 38.2     | 9.83   | 57.13  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15690     | 46.48      | -27.52 | 74         | 52     | 40.83    | 11.8   | 58.15  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10460     | 43.99      | -30.01 | 74         | 53.09  | 38.2     | 9.83   | 57.13  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15690     | 45.94      | -28.06 | 74         | 51.46  | 40.83    | 11.8   | 58.15  | 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 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 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) |
| 802.11a<br>CH 52<br>5260MHz |      | 5138.45   | 56.62      | -17.38 | 74         | 47.04  | 35.16    | 6.71   | 32.29  | 100    | 319     | P     | H     |
|                             |      | 5139.5    | 45.38      | -8.62  | 54         | 35.78  | 35.18    | 6.71   | 32.29  | 100    | 319     | A     | H     |
|                             | *    | 5260      | 112.54     | -      | -          | 102.69 | 35.32    | 6.79   | 32.26  | 100    | 319     | P     | H     |
|                             | *    | 5260      | 102.11     | -      | -          | 92.26  | 35.32    | 6.79   | 32.26  | 100    | 319     | A     | H     |
|                             |      | 5358.36   | 54.91      | -19.09 | 74         | 44.87  | 35.42    | 6.85   | 32.23  | 100    | 319     | P     | H     |
|                             |      | 5360.01   | 44.03      | -9.97  | 54         | 33.99  | 35.42    | 6.85   | 32.23  | 100    | 319     | A     | H     |
|                             |      | 5141.6    | 56.28      | -17.72 | 74         | 46.67  | 35.18    | 6.72   | 32.29  | 100    | 31      | P     | V     |
|                             |      | 5144.45   | 45.23      | -8.77  | 54         | 35.62  | 35.18    | 6.72   | 32.29  | 100    | 31      | A     | V     |
|                             | *    | 5258      | 111.5      | -      | -          | 101.69 | 35.3     | 6.77   | 32.26  | 100    | 31      | P     | V     |
|                             | *    | 5258      | 110.35     | -      | -          | 100.54 | 35.3     | 6.77   | 32.26  | 100    | 31      | A     | V     |
|                             |      | 5366.5    | 53.54      | -20.46 | 74         | 43.48  | 35.44    | 6.85   | 32.23  | 100    | 31      | P     | V     |
|                             |      | 5350.11   | 43.71      | -10.29 | 54         | 33.69  | 35.42    | 6.83   | 32.23  | 100    | 31      | A     | V     |
| 802.11a<br>CH 60<br>5300MHz |      | 5145.2    | 53.08      | -20.92 | 74         | 43.47  | 35.18    | 6.72   | 32.29  | 102    | 331     | P     | H     |
|                             |      | 5149.55   | 42.71      | -11.29 | 54         | 33.1   | 35.18    | 6.72   | 32.29  | 102    | 331     | A     | H     |
|                             | *    | 5299      | 95.79      | -      | -          | 85.88  | 35.36    | 6.8    | 32.25  | 102    | 331     | A     | H     |
|                             | *    | 5299      | 105.61     | -      | -          | 95.7   | 35.36    | 6.8    | 32.25  | 102    | 331     | P     | H     |
|                             |      | 5360.45   | 54.61      | -19.39 | 74         | 44.57  | 35.42    | 6.85   | 32.23  | 102    | 331     | P     | H     |
|                             |      | 5351.54   | 43.6       | -10.4  | 54         | 33.58  | 35.42    | 6.83   | 32.23  | 102    | 331     | A     | H     |
|                             |      | 5141.9    | 53.59      | -20.41 | 74         | 43.98  | 35.18    | 6.72   | 32.29  | 108    | 350     | P     | V     |
|                             |      | 5149.25   | 42.85      | -11.15 | 54         | 33.24  | 35.18    | 6.72   | 32.29  | 108    | 350     | A     | V     |
|                             | *    | 5298      | 102.51     | -      | -          | 92.6   | 35.36    | 6.8    | 32.25  | 108    | 350     | A     | V     |
|                             | *    | 5298      | 111.96     | -      | -          | 102.05 | 35.36    | 6.8    | 32.25  | 108    | 350     | P     | V     |
|                             |      | 5355.06   | 62.21      | -11.79 | 74         | 52.19  | 35.42    | 6.83   | 32.23  | 108    | 350     | P     | V     |
|                             |      | 5350.66   | 48.87      | -5.13  | 54         | 38.85  | 35.42    | 6.83   | 32.23  | 108    | 350     | A     | V     |



|                                                  |                                                                                             |         |        |       |    |        |       |      |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 112.69 | -     | -  | 102.74 | 35.38 | 6.81 | 32.24 | 196 | 336 | P | H |
|                                                  | *                                                                                           | 5320    | 102.31 | -     | -  | 92.36  | 35.38 | 6.81 | 32.24 | 196 | 336 | A | H |
|                                                  |                                                                                             | 5350.22 | 69.85  | -4.15 | 74 | 59.83  | 35.42 | 6.83 | 32.23 | 196 | 336 | P | H |
|                                                  |                                                                                             | 5354.73 | 50.65  | -3.35 | 54 | 40.63  | 35.42 | 6.83 | 32.23 | 196 | 336 | A | H |
|                                                  |                                                                                             |         |        |       |    |        |       |      |       |     |     |   | H |
|                                                  |                                                                                             |         |        |       |    |        |       |      |       |     |     |   | H |
|                                                  | *                                                                                           | 5320    | 110.72 | -     | -  | 100.77 | 35.38 | 6.81 | 32.24 | 100 | 278 | P | V |
|                                                  | *                                                                                           | 5320    | 100.18 | -     | -  | 90.23  | 35.38 | 6.81 | 32.24 | 100 | 278 | A | V |
|                                                  |                                                                                             | 5350    | 67.85  | -6.15 | 74 | 57.83  | 35.42 | 6.83 | 32.23 | 100 | 278 | P | V |
|                                                  |                                                                                             | 5350    | 49.04  | -4.96 | 54 | 39.02  | 35.42 | 6.83 | 32.23 | 100 | 278 | A | V |
|                                                  |                                                                                             |         |        |       |    |        |       |      |       |     |     |   | V |
|                                                  |                                                                                             |         |        |       |    |        |       |      |       |     |     |   | V |
| Remark                                           | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |    |        |       |      |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 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 ) |
| 802.11a<br>CH 52<br>5260MHz |                                                                                             | 10520     | 43.23      | -30.77 | 74         | 52.26    | 38.21    | 9.86   | 57.1   | 100    | 0       | P       | H       |
|                             |                                                                                             | 15780     | 46.35      | -27.65 | 74         | 51.7     | 40.93    | 11.8   | 58.08  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10520     | 43.16      | -30.84 | 74         | 52.19    | 38.21    | 9.86   | 57.1   | 100    | 0       | P       | V       |
|                             |                                                                                             | 15780     | 46.5       | -27.5  | 74         | 51.85    | 40.93    | 11.8   | 58.08  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600     | 43.12      | -30.88 | 74         | 52.08    | 38.28    | 9.88   | 57.12  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15900     | 47.52      | -26.48 | 74         | 52.65    | 41.08    | 11.77  | 57.98  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10600     | 43.04      | -30.96 | 74         | 52       | 38.28    | 9.88   | 57.12  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15900     | 45.74      | -28.26 | 74         | 50.87    | 41.08    | 11.77  | 57.98  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640     | 42.34      | -31.66 | 74         | 51.26    | 38.31    | 9.9    | 57.13  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15960     | 45.4       | -28.6  | 74         | 50.41    | 41.16    | 11.76  | 57.93  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10640     | 42.41      | -31.59 | 74         | 51.33    | 38.31    | 9.9    | 57.13  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15960     | 45.2       | -28.8  | 74         | 50.21    | 41.16    | 11.76  | 57.93  | 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 2 5250~5350MHz

## WIFI 802.11n HT20 (Band Edge @ 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) |
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5110.85   | 55.2       | -18.8  | 74         | 45.67  | 35.14    | 6.69   | 32.3   | 100    | 325     | P     | H     |
|                                     |      | 5150      | 44.41      | -9.59  | 54         | 34.8   | 35.18    | 6.72   | 32.29  | 100    | 325     | A     | H     |
|                                     | *    | 5258      | 108.9      | -      | -          | 99.09  | 35.3     | 6.77   | 32.26  | 100    | 325     | P     | H     |
|                                     | *    | 5258      | 99.38      | -      | -          | 89.57  | 35.3     | 6.77   | 32.26  | 100    | 325     | A     | H     |
|                                     |      | 5442.51   | 52.95      | -21.05 | 74         | 42.72  | 35.52    | 6.92   | 32.21  | 100    | 325     | P     | H     |
|                                     |      | 5359.46   | 42.97      | -11.03 | 54         | 32.93  | 35.42    | 6.85   | 32.23  | 100    | 325     | A     | H     |
|                                     |      | 5146.1    | 54.8       | -19.2  | 74         | 45.19  | 35.18    | 6.72   | 32.29  | 100    | 1       | P     | V     |
|                                     |      | 5143.85   | 43.71      | -10.29 | 54         | 34.1   | 35.18    | 6.72   | 32.29  | 100    | 1       | A     | V     |
|                                     | *    | 5258      | 107.99     | -      | -          | 98.18  | 35.3     | 6.77   | 32.26  | 100    | 1       | P     | V     |
|                                     | *    | 5258      | 98.28      | -      | -          | 88.47  | 35.3     | 6.77   | 32.26  | 100    | 1       | A     | V     |
|                                     |      | 5358.25   | 54.45      | -19.55 | 74         | 44.41  | 35.42    | 6.85   | 32.23  | 100    | 1       | P     | V     |
|                                     |      | 5360.12   | 43.14      | -10.86 | 54         | 33.1   | 35.42    | 6.85   | 32.23  | 100    | 1       | A     | V     |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5135.45   | 52.11      | -21.89 | 74         | 42.53  | 35.16    | 6.71   | 32.29  | 110    | 74      | P     | H     |
|                                     |      | 5143.1    | 42.08      | -11.92 | 54         | 32.47  | 35.18    | 6.72   | 32.29  | 110    | 74      | A     | H     |
|                                     | *    | 5299      | 93.19      | -      | -          | 83.28  | 35.36    | 6.8    | 32.25  | 110    | 74      | A     | H     |
|                                     | *    | 5299      | 102.75     | -      | -          | 92.84  | 35.36    | 6.8    | 32.25  | 110    | 74      | P     | H     |
|                                     |      | 5350.55   | 53.71      | -20.29 | 74         | 43.69  | 35.42    | 6.83   | 32.23  | 110    | 74      | P     | H     |
|                                     |      | 5350.44   | 43.25      | -10.75 | 54         | 33.23  | 35.42    | 6.83   | 32.23  | 110    | 74      | A     | H     |
|                                     |      | 5012.9    | 52.6       | -21.4  | 74         | 43.27  | 35.02    | 6.64   | 32.33  | 120    | 350     | P     | V     |
|                                     |      | 5149.4    | 42.86      | -11.14 | 54         | 33.25  | 35.18    | 6.72   | 32.29  | 120    | 350     | A     | V     |
|                                     | *    | 5300      | 101.02     | -      | -          | 91.11  | 35.36    | 6.8    | 32.25  | 120    | 350     | A     | V     |
|                                     | *    | 5300      | 110.89     | -      | -          | 100.98 | 35.36    | 6.8    | 32.25  | 120    | 350     | P     | V     |
|                                     |      | 5350.77   | 59.77      | -14.23 | 74         | 49.75  | 35.42    | 6.83   | 32.23  | 120    | 350     | P     | V     |
|                                     |      | 5350.55   | 47.72      | -6.28  | 54         | 37.7   | 35.42    | 6.83   | 32.23  | 120    | 350     | A     | V     |



|                                                                 |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5321    | 108.9  | -      | -  | 98.95 | 35.38 | 6.81 | 32.24 | 109 | 320 | P | H |
|                                                                 | *                                                                                           | 5321    | 99.33  | -      | -  | 89.38 | 35.38 | 6.81 | 32.24 | 109 | 320 | A | H |
|                                                                 |                                                                                             | 5351.32 | 59.99  | -14.01 | 74 | 49.97 | 35.42 | 6.83 | 32.23 | 109 | 320 | P | H |
|                                                                 |                                                                                             | 5352.86 | 47     | -7     | 54 | 36.98 | 35.42 | 6.83 | 32.23 | 109 | 320 | A | H |
|                                                                 |                                                                                             | 5350.55 | 53.71  | -20.29 | 74 | 43.69 | 35.42 | 6.83 | 32.23 | 110 | 74  | P | H |
|                                                                 |                                                                                             | 5350.44 | 43.25  | -10.75 | 54 | 33.23 | 35.42 | 6.83 | 32.23 | 110 | 74  | A | H |
|                                                                 | *                                                                                           | 5322    | 107.04 | -      | -  | 97.09 | 35.38 | 6.81 | 32.24 | 100 | 278 | P | V |
|                                                                 | *                                                                                           | 5322    | 97.76  | -      | -  | 87.81 | 35.38 | 6.81 | 32.24 | 100 | 278 | A | V |
|                                                                 |                                                                                             | 5352.64 | 58.22  | -15.78 | 74 | 48.2  | 35.42 | 6.83 | 32.23 | 100 | 278 | P | V |
|                                                                 |                                                                                             | 5350.33 | 46.05  | -7.95  | 54 | 36.03 | 35.42 | 6.83 | 32.23 | 100 | 278 | A | V |
|                                                                 |                                                                                             | 5350.77 | 59.77  | -14.23 | 74 | 49.75 | 35.42 | 6.83 | 32.23 | 120 | 350 | P | V |
|                                                                 |                                                                                             | 5350.55 | 47.72  | -6.28  | 54 | 37.7  | 35.42 | 6.83 | 32.23 | 120 | 350 | A | V |
| Remark                                                          | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



**Band 2 5250~5350MHz**

**WIFI 802.11n HT20 (Harmonic @ 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) |
| 802.11n<br>HT20<br>CH 52<br>5260MHz |                                                                                             | 10520     | 43.3       | -30.7  | 74         | 52.33  | 38.21    | 9.86   | 57.1   | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15780     | 46.6       | -27.4  | 74         | 51.95  | 40.93    | 11.8   | 58.08  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10520     | 43.73      | -30.27 | 74         | 52.76  | 38.21    | 9.86   | 57.1   | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15780     | 46.77      | -27.23 | 74         | 52.12  | 40.93    | 11.8   | 58.08  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |                                                                                             | 10600     | 43.36      | -30.64 | 74         | 52.32  | 38.28    | 9.88   | 57.12  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15900     | 46.64      | -27.36 | 74         | 51.77  | 41.08    | 11.77  | 57.98  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10600     | 43.06      | -30.94 | 74         | 52.02  | 38.28    | 9.88   | 57.12  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15900     | 46.27      | -27.73 | 74         | 51.4   | 41.08    | 11.77  | 57.98  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |                                                                                             | 10640     | 42.57      | -31.43 | 74         | 51.49  | 38.31    | 9.9    | 57.13  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15960     | 45.42      | -28.58 | 74         | 50.43  | 41.16    | 11.76  | 57.93  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10640     | 42.64      | -31.36 | 74         | 51.56  | 38.31    | 9.9    | 57.13  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15960     | 46.55      | -27.45 | 74         | 51.56  | 41.16    | 11.76  | 57.93  | 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 2 5250~5350MHz

## WIFI 802.11n HT40 (Band Edge @ 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 ) |
| 802.11n<br>HT40<br>CH 54<br>5270MHz |                                                                                             | 5136.5    | 54.63      | -19.37 | 74         | 45.05    | 35.16    | 6.71   | 32.29  | 110    | 318     | P       | H       |
|                                     |                                                                                             | 5146.7    | 43.74      | -10.26 | 54         | 34.13    | 35.18    | 6.72   | 32.29  | 110    | 318     | A       | H       |
|                                     | *                                                                                           | 5270      | 106.85     | -      | -          | 97       | 35.32    | 6.79   | 32.26  | 110    | 318     | P       | H       |
|                                     | *                                                                                           | 5270      | 96.62      | -      | -          | 86.77    | 35.32    | 6.79   | 32.26  | 110    | 318     | A       | H       |
|                                     |                                                                                             | 5356.49   | 56.27      | -17.73 | 74         | 46.23    | 35.42    | 6.85   | 32.23  | 110    | 318     | P       | H       |
|                                     |                                                                                             | 5353.63   | 44.36      | -9.64  | 54         | 34.34    | 35.42    | 6.83   | 32.23  | 110    | 318     | A       | H       |
|                                     |                                                                                             | 5146.85   | 54.5       | -19.5  | 74         | 44.89    | 35.18    | 6.72   | 32.29  | 101    | 285     | P       | V       |
|                                     |                                                                                             | 5149.55   | 43.55      | -10.45 | 54         | 33.94    | 35.18    | 6.72   | 32.29  | 101    | 285     | A       | V       |
|                                     | *                                                                                           | 5270      | 107        | -      | -          | 97.15    | 35.32    | 6.79   | 32.26  | 101    | 285     | P       | V       |
|                                     | *                                                                                           | 5270      | 97.32      | -      | -          | 87.47    | 35.32    | 6.79   | 32.26  | 101    | 285     | A       | V       |
|                                     |                                                                                             | 5365.62   | 56.35      | -17.65 | 74         | 46.29    | 35.44    | 6.85   | 32.23  | 101    | 285     | P       | V       |
|                                     |                                                                                             | 5350.11   | 44.3       | -9.7   | 54         | 34.28    | 35.42    | 6.83   | 32.23  | 101    | 285     | A       | V       |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 5105      | 53.34      | -20.66 | 74         | 43.83    | 35.12    | 6.69   | 32.3   | 100    | 71      | P       | H       |
|                                     |                                                                                             | 5149.7    | 42.03      | -11.97 | 54         | 32.42    | 35.18    | 6.72   | 32.29  | 100    | 71      | A       | H       |
|                                     | *                                                                                           | 5310      | 103.27     | -      | -          | 93.32    | 35.38    | 6.81   | 32.24  | 100    | 71      | P       | H       |
|                                     | *                                                                                           | 5310      | 93.19      | -      | -          | 83.24    | 35.38    | 6.81   | 32.24  | 100    | 71      | A       | H       |
|                                     |                                                                                             | 5352.86   | 70.86      | -3.14  | 74         | 60.84    | 35.42    | 6.83   | 32.23  | 100    | 71      | P       | H       |
|                                     |                                                                                             | 5350      | 50.43      | -3.57  | 54         | 40.41    | 35.42    | 6.83   | 32.23  | 100    | 71      | A       | H       |
|                                     |                                                                                             | 5096      | 53.01      | -20.99 | 74         | 43.5     | 35.12    | 6.69   | 32.3   | 100    | 277     | P       | V       |
|                                     |                                                                                             | 5149.55   | 42.49      | -11.51 | 54         | 32.88    | 35.18    | 6.72   | 32.29  | 100    | 277     | A       | V       |
|                                     | *                                                                                           | 5310      | 106.42     | -      | -          | 96.47    | 35.38    | 6.81   | 32.24  | 100    | 277     | P       | V       |
|                                     | *                                                                                           | 5310      | 96.43      | -      | -          | 86.48    | 35.38    | 6.81   | 32.24  | 100    | 277     | A       | V       |
|                                     |                                                                                             | 5351.87   | 71.29      | -2.71  | 74         | 61.27    | 35.42    | 6.83   | 32.23  | 100    | 277     | P       | V       |
|                                     |                                                                                             | 5350      | 53.75      | -0.25  | 54         | 43.73    | 35.42    | 6.83   | 32.23  | 100    | 277     | A       | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Harmonic @ 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) |
| 802.11n<br>HT40<br>CH 54<br>5270MHz |                                                                                             | 10540     | 43.14      | -30.86 | 74         | 52.16  | 38.23    | 9.86   | 57.11  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15810     | 46.33      | -27.67 | 74         | 51.61  | 40.97    | 11.8   | 58.05  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10540     | 42.95      | -31.05 | 74         | 51.97  | 38.23    | 9.86   | 57.11  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15810     | 45.84      | -28.16 | 74         | 51.12  | 40.97    | 11.8   | 58.05  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 10620     | 42.22      | -31.78 | 74         | 51.15  | 38.3     | 9.89   | 57.12  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15930     | 45.49      | -28.51 | 74         | 50.57  | 41.12    | 11.76  | 57.96  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10620     | 42.86      | -31.14 | 74         | 51.79  | 38.3     | 9.89   | 57.12  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15930     | 46.13      | -27.87 | 74         | 51.21  | 41.12    | 11.76  | 57.96  | 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 3 - 5470~5725MHz

## WIFI 802.11a (Band Edge @ 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 ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5469.84   | 71.41      | -2.59  | 74         | 61.11    | 35.56    | 6.94   | 32.2   | 100    | 22      | P       | H       |
|                              |      | 5468.24   | 52.97      | -1.03  | 54         | 42.67    | 35.56    | 6.94   | 32.2   | 100    | 22      | A       | H       |
|                              | *    | 5499      | 115.4      | -      | -          | 105.03   | 35.6     | 6.96   | 32.19  | 100    | 22      | P       | H       |
|                              | *    | 5499      | 105.25     | -      | -          | 94.88    | 35.6     | 6.96   | 32.19  | 100    | 22      | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5467.44   | 67.23      | -6.77  | 74         | 56.93    | 35.56    | 6.94   | 32.2   | 100    | 272     | P       | V       |
|                              |      | 5470      | 47.86      | -6.14  | 54         | 37.56    | 35.56    | 6.94   | 32.2   | 100    | 272     | A       | V       |
|                              | *    | 5501      | 106.32     | -      | -          | 95.93    | 35.6     | 6.98   | 32.19  | 100    | 272     | P       | V       |
|                              | *    | 5501      | 96.97      | -      | -          | 86.58    | 35.6     | 6.98   | 32.19  | 100    | 272     | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 120<br>5600MHz |      | 5455.12   | 53.51      | -20.49 | 74         | 43.23    | 35.54    | 6.94   | 32.2   | 100    | 88      | P       | H       |
|                              |      | 5451.12   | 43.23      | -10.77 | 54         | 32.97    | 35.54    | 6.92   | 32.2   | 100    | 88      | A       | H       |
|                              | *    | 5601      | 97.3       | -      | -          | 86.72    | 35.68    | 7.06   | 32.16  | 100    | 88      | A       | H       |
|                              | *    | 5601      | 107.04     | -      | -          | 96.46    | 35.68    | 7.06   | 32.16  | 100    | 88      | P       | H       |
|                              |      | 5757.24   | 54.74      | -19.26 | 74         | 43.86    | 35.81    | 7.18   | 32.11  | 100    | 88      | P       | H       |
|                              |      | 5748.44   | 43.79      | -10.21 | 54         | 32.93    | 35.79    | 7.18   | 32.11  | 100    | 88      | A       | H       |
|                              |      | 5462.8    | 57.57      | -16.43 | 74         | 47.27    | 35.56    | 6.94   | 32.2   | 102    | 359     | P       | V       |
|                              |      | 5469.36   | 45.74      | -8.26  | 54         | 35.44    | 35.56    | 6.94   | 32.2   | 102    | 359     | A       | V       |
|                              | *    | 5599      | 107.71     | -      | -          | 97.13    | 35.68    | 7.06   | 32.16  | 102    | 359     | A       | V       |
|                              | *    | 5599      | 117.66     | -      | -          | 107.08   | 35.68    | 7.06   | 32.16  | 102    | 359     | P       | V       |
|                              |      | 5729.32   | 60.3       | -13.7  | 74         | 49.48    | 35.78    | 7.16   | 32.12  | 102    | 359     | P       | V       |
|                              |      | 5725      | 47.88      | -6.12  | 54         | 37.06    | 35.78    | 7.16   | 32.12  | 102    | 359     | A       | V       |



|                                                   |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5699    | 113.46 | -      | -  | 102.69 | 35.75 | 7.15 | 32.13 | 100 | 1   | P | H |
|                                                   | *                                                                                           | 5699    | 103.77 | -      | -  | 93     | 35.75 | 7.15 | 32.13 | 100 | 1   | A | H |
|                                                   |                                                                                             | 5726.52 | 70.89  | -3.11  | 74 | 60.07  | 35.78 | 7.16 | 32.12 | 100 | 1   | P | H |
|                                                   |                                                                                             | 5725.24 | 52.38  | -1.62  | 54 | 41.56  | 35.78 | 7.16 | 32.12 | 100 | 1   | A | H |
|                                                   |                                                                                             |         |        |        |    |        |       |      |       |     |     |   | H |
|                                                   |                                                                                             |         |        |        |    |        |       |      |       |     |     |   | H |
|                                                   | *                                                                                           | 5701    | 103.42 | -      | -  | 92.62  | 35.77 | 7.15 | 32.12 | 100 | 343 | P | V |
|                                                   | *                                                                                           | 5701    | 93.86  | -      | -  | 83.06  | 35.77 | 7.15 | 32.12 | 100 | 343 | A | V |
|                                                   |                                                                                             | 5725.32 | 62.62  | -11.38 | 74 | 51.8   | 35.78 | 7.16 | 32.12 | 100 | 343 | P | V |
|                                                   |                                                                                             | 5725    | 46.26  | -7.74  | 54 | 35.44  | 35.78 | 7.16 | 32.12 | 100 | 343 | A | V |
|                                                   |                                                                                             |         |        |        |    |        |       |      |       |     |     |   | V |
|                                                   |                                                                                             |         |        |        |    |        |       |      |       |     |     |   | V |
| Remark                                            | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 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 ) |
| 802.11a<br>CH 100<br>5500MHz |                                                                                             | 11000     | 43.4       | -30.6  | 74         | 51.92    | 38.6     | 10.08  | 57.2   | 100    | 0       | P       | H       |
|                              |                                                                                             | 16500     | 45.58      | -28.42 | 74         | 49.1     | 41.4     | 12.18  | 57.1   | 100    | 0       | P       | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             | 11000     | 43.2       | -30.8  | 74         | 51.72    | 38.6     | 10.08  | 57.2   | 100    | 0       | P       | V       |
|                              |                                                                                             | 16500     | 45.82      | -28.18 | 74         | 49.34    | 41.4     | 12.18  | 57.1   | 100    | 0       | P       | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 120<br>5600MHz |                                                                                             | 11200     | 43.73      | -30.27 | 74         | 51.87    | 38.76    | 10.18  | 57.08  | 100    | 0       | P       | H       |
|                              |                                                                                             | 16800     | 46.5       | -27.5  | 74         | 49.45    | 41.81    | 12.34  | 57.1   | 100    | 0       | P       | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             | 11200     | 43.69      | -30.31 | 74         | 51.83    | 38.76    | 10.18  | 57.08  | 100    | 0       | P       | V       |
|                              |                                                                                             | 16800     | 46.99      | -27.01 | 74         | 49.94    | 41.81    | 12.34  | 57.1   | 100    | 0       | P       | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400     | 44.93      | -29.07 | 74         | 52.69    | 38.92    | 10.28  | 56.96  | 100    | 0       | P       | H       |
|                              |                                                                                             | 17100     | 47.77      | -26.23 | 74         | 50.59    | 42.06    | 12.48  | 57.36  | 100    | 0       | P       | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             | 11400     | 43.88      | -30.12 | 74         | 51.64    | 38.92    | 10.28  | 56.96  | 100    | 0       | P       | V       |
|                              |                                                                                             | 17100     | 47.09      | -26.91 | 74         | 49.91    | 42.06    | 12.48  | 57.36  | 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 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Band Edge @ 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 ) |
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5469.52   | 71.8       | -2.2   | 74         | 61.5     | 35.56    | 6.94   | 32.2   | 100    | 30      | P       | H       |
|                                      |      | 5469.68   | 53.59      | -0.41  | 54         | 43.29    | 35.56    | 6.94   | 32.2   | 100    | 30      | A       | H       |
|                                      | *    | 5500      | 115.43     | -      | -          | 105.04   | 35.6     | 6.98   | 32.19  | 100    | 30      | P       | H       |
|                                      | *    | 5500      | 104.95     | -      | -          | 94.56    | 35.6     | 6.98   | 32.19  | 100    | 30      | A       | H       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |      | 5469.2    | 68.18      | -5.82  | 74         | 57.88    | 35.56    | 6.94   | 32.2   | 110    | 242     | P       | V       |
|                                      |      | 5470      | 48.91      | -5.09  | 54         | 38.61    | 35.56    | 6.94   | 32.2   | 110    | 242     | A       | V       |
|                                      | *    | 5500      | 108.01     | -      | -          | 97.62    | 35.6     | 6.98   | 32.19  | 110    | 242     | P       | V       |
|                                      | *    | 5500      | 98.25      | -      | -          | 87.86    | 35.6     | 6.98   | 32.19  | 110    | 242     | A       | V       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 120<br>5600MHz |      | 5432.72   | 52.95      | -21.05 | 74         | 42.72    | 35.52    | 6.92   | 32.21  | 100    | 92      | P       | H       |
|                                      |      | 5458.32   | 43.07      | -10.93 | 54         | 32.79    | 35.54    | 6.94   | 32.2   | 100    | 92      | A       | H       |
|                                      | *    | 5601      | 96.94      | -      | -          | 86.36    | 35.68    | 7.06   | 32.16  | 100    | 92      | A       | H       |
|                                      | *    | 5601      | 106.78     | -      | -          | 96.2     | 35.68    | 7.06   | 32.16  | 100    | 92      | P       | H       |
|                                      |      | 5754.2    | 54.33      | -19.67 | 74         | 43.45    | 35.81    | 7.18   | 32.11  | 100    | 92      | P       | H       |
|                                      |      | 5754.36   | 43.98      | -10.02 | 54         | 33.1     | 35.81    | 7.18   | 32.11  | 100    | 92      | A       | H       |
|                                      |      | 5453.52   | 58.43      | -15.57 | 74         | 48.15    | 35.54    | 6.94   | 32.2   | 103    | 359     | P       | V       |
|                                      |      | 5467.44   | 46.76      | -7.24  | 54         | 36.46    | 35.56    | 6.94   | 32.2   | 103    | 359     | A       | V       |
|                                      | *    | 5600      | 107.34     | -      | -          | 96.76    | 35.68    | 7.06   | 32.16  | 103    | 359     | A       | V       |
|                                      | *    | 5600      | 117.03     | -      | -          | 106.45   | 35.68    | 7.06   | 32.16  | 103    | 359     | P       | V       |
|                                      |      | 5728.04   | 58.52      | -15.48 | 74         | 47.7     | 35.78    | 7.16   | 32.12  | 103    | 359     | P       | V       |
|                                      |      | 5725.08   | 46.55      | -7.45  | 54         | 35.73    | 35.78    | 7.16   | 32.12  | 103    | 359     | A       | V       |



|                                                                  |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700    | 113.2  | -      | -  | 102.43 | 35.75 | 7.15 | 32.13 | 100 | 2   | P | H |
|                                                                  | *                                                                                           | 5700    | 103.79 | -      | -  | 93.02  | 35.75 | 7.15 | 32.13 | 100 | 2   | A | H |
|                                                                  |                                                                                             | 5725    | 67.05  | -6.95  | 74 | 56.23  | 35.78 | 7.16 | 32.12 | 100 | 2   | P | H |
|                                                                  |                                                                                             | 5725    | 53.1   | -0.9   | 54 | 42.28  | 35.78 | 7.16 | 32.12 | 100 | 2   | A | H |
|                                                                  |                                                                                             | 5754.2  | 54.33  | -19.67 | 74 | 43.45  | 35.81 | 7.18 | 32.11 | 100 | 92  | P | H |
|                                                                  |                                                                                             | 5754.36 | 43.98  | -10.02 | 54 | 33.1   | 35.81 | 7.18 | 32.11 | 100 | 92  | A | H |
|                                                                  | *                                                                                           | 5700    | 104.83 | -      | -  | 94.06  | 35.75 | 7.15 | 32.13 | 100 | 49  | P | V |
|                                                                  | *                                                                                           | 5700    | 95.6   | -      | -  | 84.83  | 35.75 | 7.15 | 32.13 | 100 | 49  | A | V |
|                                                                  |                                                                                             | 5725.08 | 60.95  | -13.05 | 74 | 50.13  | 35.78 | 7.16 | 32.12 | 100 | 49  | P | V |
|                                                                  |                                                                                             | 5725.08 | 47.07  | -6.93  | 54 | 36.25  | 35.78 | 7.16 | 32.12 | 100 | 49  | A | V |
|                                                                  |                                                                                             | 5728.04 | 58.52  | -15.48 | 74 | 47.7   | 35.78 | 7.16 | 32.12 | 103 | 359 | P | V |
|                                                                  |                                                                                             | 5725.08 | 46.55  | -7.45  | 54 | 35.73  | 35.78 | 7.16 | 32.12 | 103 | 359 | A | V |
| Remark                                                           | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 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 ) |
| 802.11n<br>HT20<br>CH 100<br>5500MHz |                                                                                             | 11000     | 44.05      | -29.95 | 74         | 52.57    | 38.6     | 10.08  | 57.2   | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16500     | 45.8       | -28.2  | 74         | 49.32    | 41.4     | 12.18  | 57.1   | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11000     | 43.96      | -30.04 | 74         | 52.48    | 38.6     | 10.08  | 57.2   | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16500     | 45.56      | -28.44 | 74         | 49.08    | 41.4     | 12.18  | 57.1   | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 120<br>5600MHz |                                                                                             | 11200     | 43.13      | -30.87 | 74         | 51.27    | 38.76    | 10.18  | 57.08  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16800     | 46.87      | -27.13 | 74         | 49.82    | 41.81    | 12.34  | 57.1   | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11200     | 43.51      | -30.49 | 74         | 51.65    | 38.76    | 10.18  | 57.08  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16800     | 46.16      | -27.84 | 74         | 49.11    | 41.81    | 12.34  | 57.1   | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |                                                                                             | 11400     | 45.14      | -28.86 | 74         | 52.9     | 38.92    | 10.28  | 56.96  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 17100     | 47.84      | -26.16 | 74         | 50.66    | 42.06    | 12.48  | 57.36  | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11400     | 44.24      | -29.76 | 74         | 52       | 38.92    | 10.28  | 56.96  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 17100     | 47.24      | -26.76 | 74         | 50.06    | 42.06    | 12.48  | 57.36  | 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 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Band Edge @ 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 ) |
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5469.68   | 68.33      | -5.67  | 74         | 58.03    | 35.56    | 6.94   | 32.2   | 100    | 29      | P       | H       |
|                                      |      | 5470      | 52.54      | -1.46  | 54         | 42.24    | 35.56    | 6.94   | 32.2   | 100    | 29      | A       | H       |
|                                      | *    | 5510      | 107.26     | -      | -          | 96.87    | 35.6     | 6.98   | 32.19  | 100    | 29      | P       | H       |
|                                      | *    | 5510      | 97.26      | -      | -          | 86.87    | 35.6     | 6.98   | 32.19  | 100    | 29      | A       | H       |
|                                      |      | 5746.84   | 54.61      | -19.39 | 74         | 43.75    | 35.79    | 7.18   | 32.11  | 100    | 29      | P       | H       |
|                                      |      | 5725.32   | 43.91      | -10.09 | 54         | 33.09    | 35.78    | 7.16   | 32.12  | 100    | 29      | A       | H       |
|                                      |      | 5470      | 68.08      | -5.92  | 74         | 57.78    | 35.56    | 6.94   | 32.2   | 109    | 268     | P       | V       |
|                                      |      | 5470      | 49.87      | -4.13  | 54         | 39.57    | 35.56    | 6.94   | 32.2   | 109    | 268     | A       | V       |
|                                      | *    | 5510      | 103.16     | -      | -          | 92.77    | 35.6     | 6.98   | 32.19  | 109    | 268     | P       | V       |
|                                      | *    | 5510      | 93.17      | -      | -          | 82.78    | 35.6     | 6.98   | 32.19  | 109    | 268     | A       | V       |
|                                      |      | 5738.6    | 53.15      | -20.85 | 74         | 42.31    | 35.79    | 7.16   | 32.11  | 109    | 268     | P       | V       |
|                                      |      | 5738.76   | 43.15      | -10.85 | 54         | 32.31    | 35.79    | 7.16   | 32.11  | 109    | 268     | A       | V       |
| 802.11n<br>HT40<br>CH 118<br>5590MHz |      | 5469.04   | 55.62      | -18.38 | 74         | 45.32    | 35.56    | 6.94   | 32.2   | 100    | 356     | P       | H       |
|                                      |      | 5469.52   | 44.91      | -9.09  | 54         | 34.61    | 35.56    | 6.94   | 32.2   | 100    | 356     | A       | H       |
|                                      | *    | 5590      | 111.16     | -      | -          | 100.61   | 35.67    | 7.04   | 32.16  | 100    | 356     | P       | H       |
|                                      | *    | 5590      | 101.38     | -      | -          | 90.83    | 35.67    | 7.04   | 32.16  | 100    | 356     | A       | H       |
|                                      |      | 5732.52   | 58.25      | -15.75 | 74         | 47.43    | 35.78    | 7.16   | 32.12  | 100    | 356     | P       | H       |
|                                      |      | 5739.48   | 46.19      | -7.81  | 54         | 35.35    | 35.79    | 7.16   | 32.11  | 100    | 356     | A       | H       |
|                                      |      | 5451.28   | 53.83      | -20.17 | 74         | 43.57    | 35.54    | 6.92   | 32.2   | 109    | 295     | P       | V       |
|                                      |      | 5468.88   | 43.52      | -10.48 | 54         | 33.22    | 35.56    | 6.94   | 32.2   | 109    | 295     | A       | V       |
|                                      | *    | 5590      | 101.08     | -      | -          | 90.53    | 35.67    | 7.04   | 32.16  | 109    | 295     | P       | V       |
|                                      | *    | 5590      | 91.06      | -      | -          | 80.51    | 35.67    | 7.04   | 32.16  | 109    | 295     | A       | V       |
|                                      |      | 5745.32   | 53.67      | -20.33 | 74         | 42.81    | 35.79    | 7.18   | 32.11  | 109    | 295     | P       | V       |
|                                      |      | 5745.56   | 43.39      | -10.61 | 54         | 32.53    | 35.79    | 7.18   | 32.11  | 109    | 295     | A       | V       |



|                                                                  |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5459.76 | 54.86  | -19.14 | 74 | 44.58  | 35.54 | 6.94 | 32.2  | 100 | 354 | P | H |
|                                                                  |                                                                                             | 5460.08 | 45.28  | -8.72  | 54 | 35     | 35.54 | 6.94 | 32.2  | 100 | 354 | A | H |
|                                                                  | *                                                                                           | 5668    | 110.75 | -      | -  | 100.04 | 35.74 | 7.1  | 32.13 | 100 | 354 | P | H |
|                                                                  | *                                                                                           | 5668    | 100.82 | -      | -  | 90.11  | 35.74 | 7.1  | 32.13 | 100 | 354 | A | H |
|                                                                  |                                                                                             | 5727.16 | 61.85  | -12.15 | 74 | 51.03  | 35.78 | 7.16 | 32.12 | 100 | 354 | P | H |
|                                                                  |                                                                                             | 5725.08 | 48.66  | -5.34  | 54 | 37.84  | 35.78 | 7.16 | 32.12 | 100 | 354 | A | H |
|                                                                  |                                                                                             | 5391.92 | 52.1   | -21.9  | 74 | 41.98  | 35.46 | 6.88 | 32.22 | 102 | 340 | P | V |
|                                                                  |                                                                                             | 5456.4  | 42.42  | -11.58 | 54 | 32.14  | 35.54 | 6.94 | 32.2  | 102 | 340 | A | V |
|                                                                  | *                                                                                           | 5672    | 101.79 | -      | -  | 91.05  | 35.74 | 7.13 | 32.13 | 102 | 340 | P | V |
|                                                                  | *                                                                                           | 5672    | 91.59  | -      | -  | 80.85  | 35.74 | 7.13 | 32.13 | 102 | 340 | A | V |
|                                                                  |                                                                                             | 5726.44 | 56.07  | -17.93 | 74 | 45.25  | 35.78 | 7.16 | 32.12 | 102 | 340 | P | V |
|                                                                  |                                                                                             | 5725.08 | 44.87  | -9.13  | 54 | 34.05  | 35.78 | 7.16 | 32.12 | 102 | 340 | A | V |
| Remark                                                           | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 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 ) |
| 802.11n<br>HT40<br>CH 102<br>5510MHz |                                                                                             | 11020     | 44.37      | -29.63 | 74         | 52.86    | 38.61    | 10.09  | 57.19  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16530     | 45.35      | -28.65 | 74         | 48.8     | 41.45    | 12.2   | 57.1   | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11020     | 43.72      | -30.28 | 74         | 52.21    | 38.61    | 10.09  | 57.19  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16530     | 46.55      | -27.45 | 74         | 50       | 41.45    | 12.2   | 57.1   | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 118<br>5590MHz |                                                                                             | 11180     | 44.11      | -29.89 | 74         | 52.29    | 38.75    | 10.16  | 57.09  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16770     | 46.41      | -27.59 | 74         | 49.39    | 41.79    | 12.33  | 57.1   | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11180     | 43.83      | -30.17 | 74         | 52.01    | 38.75    | 10.16  | 57.09  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16770     | 46.33      | -27.67 | 74         | 49.31    | 41.79    | 12.33  | 57.1   | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |                                                                                             | 11340     | 43.52      | -30.48 | 74         | 51.4     | 38.87    | 10.25  | 57     | 100    | 0       | P       | H       |
|                                      |                                                                                             | 17010     | 47.32      | -26.68 | 74         | 49.93    | 42.09    | 12.44  | 57.14  | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11340     | 43.42      | -30.58 | 74         | 51.3     | 38.87    | 10.25  | 57     | 100    | 0       | P       | V       |
|                                      |                                                                                             | 17010     | 46.8       | -27.2  | 74         | 49.41    | 42.09    | 12.44  | 57.14  | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## Emission below 1GHz

## WIFI 802.11a (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) |
| 802.11a<br>LF |                                                                            | 91.02     | 30.12      | -13.38 | 43.5       | 51.97  | 8.88     | 1.05   | 31.78  |        |         | P     | H     |
|               | !                                                                          | 243.3     | 41.35      | -4.65  | 46         | 59.8   | 11.7     | 1.62   | 31.77  | 135    | 208     | P     | H     |
|               | !                                                                          | 253.02    | 40.13      | -5.87  | 46         | 57.4   | 12.85    | 1.65   | 31.77  |        |         | P     | H     |
|               |                                                                            | 325.9     | 34.13      | -11.87 | 46         | 50.42  | 13.64    | 1.84   | 31.77  |        |         | P     | H     |
|               |                                                                            | 342       | 33.16      | -12.84 | 46         | 48.9   | 14.16    | 1.88   | 31.78  |        |         | P     | H     |
|               |                                                                            | 731.9     | 31.26      | -14.74 | 46         | 38.59  | 21.96    | 2.71   | 32     |        |         | P     | H     |
|               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|               | !                                                                          | 30.54     | 36.12      | -3.88  | 40         | 48.85  | 18.38    | 0.71   | 31.82  | 147    | 258     | P     | V     |
|               |                                                                            | 240.06    | 37.12      | -8.88  | 46         | 55.88  | 11.4     | 1.61   | 31.77  |        |         | P     | V     |
|               |                                                                            | 249.78    | 38.94      | -7.06  | 46         | 56.67  | 12.4     | 1.64   | 31.77  |        |         | P     | V     |
|               |                                                                            | 323.1     | 31.64      | -14.36 | 46         | 48.05  | 13.52    | 1.84   | 31.77  |        |         | P     | V     |
|               |                                                                            | 675.9     | 33.2       | -12.8  | 46         | 42.27  | 20.36    | 2.61   | 32.04  |        |         | P     | V     |
|               |                                                                            | 731.9     | 36.59      | -9.41  | 46         | 43.92  | 21.96    | 2.71   | 32     |        |         | 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”.**