



## Appendix A. Radiated Spurious Emission

15C 2.4GHz 2400~2483.5MHz

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+2                                 |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT20<br>CH 01<br>2412MHz |      | 2389.47   | 64.34      | -9.66  | 74         | 60.6     | 32.77    | 4.62   | 33.65  | 108    | 270     | P     | H     |
|                                     |      | 2389.92   | 47.44      | -6.56  | 54         | 43.7     | 32.77    | 4.62   | 33.65  | 108    | 270     | A     | H     |
|                                     | *    | 2410      | 108.52     | -      | -          | 104.69   | 32.81    | 4.65   | 33.63  | 108    | 270     | P     | H     |
|                                     | *    | 2410      | 98.19      | -      | -          | 94.36    | 32.81    | 4.65   | 33.63  | 108    | 270     | A     | H     |
|                                     |      |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                     |      |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                     |      | 2389.74   | 69.53      | -4.47  | 74         | 65.79    | 32.77    | 4.62   | 33.65  | 107    | 54      | P     | V     |
|                                     |      | 2390      | 50.77      | -3.23  | 54         | 47.03    | 32.77    | 4.62   | 33.65  | 107    | 54      | A     | V     |
|                                     | *    | 2410      | 112.58     | -      | -          | 108.75   | 32.81    | 4.65   | 33.63  | 107    | 54      | P     | V     |
|                                     | *    | 2410      | 102.49     | -      | -          | 98.66    | 32.81    | 4.65   | 33.63  | 107    | 54      | A     | V     |
|                                     |      |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                     |      |           |            |        |            |          |          |        |        |        |         |       | V     |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |      | 2386.05   | 60.16      | -13.84 | 74         | 56.42    | 32.77    | 4.62   | 33.65  | 100    | 271     | P     | H     |
|                                     |      | 2385.24   | 48.35      | -5.65  | 54         | 44.66    | 32.73    | 4.62   | 33.66  | 100    | 271     | A     | H     |
|                                     | *    | 2435      | 109.14     | -      | -          | 105.23   | 32.85    | 4.68   | 33.62  | 100    | 271     | P     | H     |
|                                     | *    | 2435      | 98.81      | -      | -          | 94.9     | 32.85    | 4.68   | 33.62  | 100    | 271     | A     | H     |
|                                     |      | 2484      | 60.04      | -13.96 | 74         | 55.92    | 32.96    | 4.73   | 33.57  | 100    | 271     | P     | H     |
|                                     |      | 2488.64   | 46.82      | -7.18  | 54         | 42.65    | 33       | 4.73   | 33.56  | 100    | 271     | A     | H     |
|                                     |      | 2388.03   | 61.05      | -12.95 | 74         | 57.31    | 32.77    | 4.62   | 33.65  | 104    | 52      | P     | V     |
|                                     |      | 2385.06   | 50.22      | -3.78  | 54         | 46.53    | 32.73    | 4.62   | 33.66  | 104    | 52      | A     | V     |
|                                     | *    | 2439      | 112.82     | -      | -          | 108.85   | 32.89    | 4.68   | 33.6   | 104    | 52      | P     | V     |
|                                     | *    | 2439      | 102.58     | -      | -          | 98.61    | 32.89    | 4.68   | 33.6   | 104    | 52      | A     | V     |
|                                     |      | 2483.6    | 64.12      | -9.88  | 74         | 60       | 32.96    | 4.73   | 33.57  | 104    | 52      | P     | V     |
|                                     |      | 2488.72   | 49.89      | -4.11  | 54         | 45.72    | 33       | 4.73   | 33.56  | 104    | 52      | A     | V     |



|                                               |                                                                                                                                                  |         |        |        |    |        |       |      |       |     |     |   |   |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 11<br/>2462MHz</b> | *                                                                                                                                                | 2460    | 101.78 | -      | -  | 97.75  | 32.92 | 4.7  | 33.59 | 100 | 267 | P | H |
|                                               | *                                                                                                                                                | 2460    | 91.27  | -      | -  | 87.24  | 32.92 | 4.7  | 33.59 | 100 | 267 | A | H |
|                                               |                                                                                                                                                  | 2483.96 | 60.62  | -13.38 | 74 | 56.5   | 32.96 | 4.73 | 33.57 | 100 | 267 | P | H |
|                                               |                                                                                                                                                  | 2483.52 | 44.43  | -9.57  | 54 | 40.31  | 32.96 | 4.73 | 33.57 | 100 | 267 | A | H |
|                                               |                                                                                                                                                  |         |        |        |    |        |       |      |       |     |     |   | H |
|                                               |                                                                                                                                                  |         |        |        |    |        |       |      |       |     |     |   | H |
|                                               | *                                                                                                                                                | 2460    | 112.97 | -      | -  | 108.94 | 32.92 | 4.7  | 33.59 | 119 | 198 | P | V |
|                                               | *                                                                                                                                                | 2460    | 102.75 | -      | -  | 98.72  | 32.92 | 4.7  | 33.59 | 119 | 198 | A | V |
|                                               |                                                                                                                                                  | 2484.2  | 70.32  | -3.68  | 74 | 66.2   | 32.96 | 4.73 | 33.57 | 119 | 198 | P | V |
|                                               |                                                                                                                                                  | 2483.6  | 50.75  | -3.25  | 54 | 46.63  | 32.96 | 4.73 | 33.57 | 119 | 198 | A | V |
|                                               |                                                                                                                                                  |         |        |        |    |        |       |      |       |     |     |   | V |
|                                               |                                                                                                                                                  |         |        |        |    |        |       |      |       |     |     |   | V |
| Remark                                        | <ol style="list-style-type: none"><li>1. No other spurious found.</li><li>2. All results are PASS against Peak and Average limit line.</li></ol> |         |        |        |    |        |       |      |       |     |     |   |   |



## 15C 2.4GHz 2400~2483.5MHz

## 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+2                                 |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 01<br>2412MHz |                                                                                             | 4824      | 40.24      | -33.76 | 74         | 57.28    | 35.03    | 6.54   | 58.61  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 4824      | 41.11      | -32.89 | 74         | 58.15    | 35.03    | 6.54   | 58.61  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |                                                                                             | 4875      | 40.94      | -33.06 | 74         | 57.88    | 35.02    | 6.56   | 58.52  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 7311      | 43.38      | -30.62 | 74         | 56.91    | 36.39    | 8.24   | 58.16  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 4875      | 39.9       | -34.1  | 74         | 56.84    | 35.02    | 6.56   | 58.52  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 7311      | 43.02      | -30.98 | 74         | 56.55    | 36.39    | 8.24   | 58.16  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 11<br>2462MHz |                                                                                             | 4923      | 41.67      | -32.33 | 74         | 58.49    | 35.01    | 6.59   | 58.42  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 7386      | 43.15      | -30.85 | 74         | 56.71    | 36.44    | 8.31   | 58.31  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 4922      | 44.21      | -29.79 | 74         | 61.03    | 35.01    | 6.59   | 58.42  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 7386      | 42.23      | -31.77 | 74         | 55.79    | 36.44    | 8.31   | 58.31  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15C 2.4GHz 2400~2483.5MHz

## 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+2                                 |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 03<br>2422MHz |      | 2389.74   | 61.3       | -12.7  | 74         | 57.56    | 32.77    | 4.62   | 33.65  | 179    | 248     | P       | H       |
|                                     |      | 2389.92   | 45.32      | -8.68  | 54         | 41.58    | 32.77    | 4.62   | 33.65  | 179    | 248     | A       | H       |
|                                     | *    | 2420      | 96.39      | -      | -          | 92.51    | 32.85    | 4.65   | 33.62  | 179    | 248     | P       | H       |
|                                     | *    | 2420      | 86.7       | -      | -          | 82.82    | 32.85    | 4.65   | 33.62  | 179    | 248     | A       | H       |
|                                     |      | 2494.04   | 55.25      | -18.75 | 74         | 51.08    | 33       | 4.73   | 33.56  | 179    | 248     | P       | H       |
|                                     |      | 2487.92   | 42.94      | -11.06 | 54         | 38.77    | 33       | 4.73   | 33.56  | 179    | 248     | A       | H       |
|                                     |      | 2389.29   | 69.16      | -4.84  | 74         | 65.42    | 32.77    | 4.62   | 33.65  | 116    | 44      | P       | V       |
|                                     |      | 2389.56   | 50.84      | -3.16  | 54         | 47.1     | 32.77    | 4.62   | 33.65  | 116    | 44      | A       | V       |
|                                     | *    | 2424      | 105.81     | -      | -          | 101.93   | 32.85    | 4.65   | 33.62  | 116    | 44      | P       | V       |
|                                     | *    | 2424      | 96.15      | -      | -          | 92.27    | 32.85    | 4.65   | 33.62  | 116    | 44      | A       | V       |
|                                     |      | 2485.84   | 55.66      | -18.34 | 74         | 51.54    | 32.96    | 4.73   | 33.57  | 116    | 44      | P       | V       |
|                                     |      | 2487.36   | 43.6       | -10.4  | 54         | 39.48    | 32.96    | 4.73   | 33.57  | 116    | 44      | A       | V       |
| 802.11n<br>HT40<br>CH 06<br>2437MHz |      | 2390      | 59.1       | -14.9  | 74         | 55.36    | 32.77    | 4.62   | 33.65  | 170    | 103     | P       | H       |
|                                     |      | 2390      | 44.93      | -9.07  | 54         | 41.19    | 32.77    | 4.62   | 33.65  | 170    | 103     | A       | H       |
|                                     | *    | 2439      | 102.19     | -      | -          | 98.22    | 32.89    | 4.68   | 33.6   | 170    | 103     | P       | H       |
|                                     | *    | 2438.744  | 92.19      | -      | -          | 88.22    | 32.89    | 4.68   | 33.6   | 170    | 103     | A       | H       |
|                                     |      | 2484.04   | 61.23      | -12.77 | 74         | 57.11    | 32.96    | 4.73   | 33.57  | 170    | 103     | P       | H       |
|                                     |      | 2483.56   | 45.43      | -8.57  | 54         | 41.31    | 32.96    | 4.73   | 33.57  | 170    | 103     | A       | H       |
|                                     |      | 2389.92   | 66.56      | -7.44  | 74         | 62.82    | 32.77    | 4.62   | 33.65  | 120    | 210     | P       | V       |
|                                     |      | 2389.65   | 49.56      | -4.44  | 54         | 45.82    | 32.77    | 4.62   | 33.65  | 120    | 210     | A       | V       |
|                                     | *    | 2439      | 109.98     | -      | -          | 106.01   | 32.89    | 4.68   | 33.6   | 120    | 210     | P       | V       |
|                                     | *    | 2439      | 100.44     | -      | -          | 96.47    | 32.89    | 4.68   | 33.6   | 120    | 210     | A       | V       |
|                                     |      | 2484.28   | 69.46      | -4.54  | 74         | 65.34    | 32.96    | 4.73   | 33.57  | 120    | 210     | P       | V       |
|                                     |      | 2483.52   | 50.88      | -3.12  | 54         | 46.76    | 32.96    | 4.73   | 33.57  | 120    | 210     | A       | V       |



|                                                                 |                                                                                             |          |        |        |    |        |       |      |       |     |     |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT40</b><br><b>CH 09</b><br><b>2452MHz</b> |                                                                                             | 2360.13  | 54.52  | -19.48 | 74 | 50.9   | 32.7  | 4.6  | 33.68 | 107 | 272 | P | H |
|                                                                 |                                                                                             | 2388.3   | 42.56  | -11.44 | 54 | 38.82  | 32.77 | 4.62 | 33.65 | 107 | 272 | A | H |
|                                                                 | *                                                                                           | 2450     | 95.82  | -      | -  | 91.85  | 32.89 | 4.68 | 33.6  | 107 | 272 | P | H |
|                                                                 | *                                                                                           | 2450     | 86.07  | -      | -  | 82.1   | 32.89 | 4.68 | 33.6  | 107 | 272 | A | H |
|                                                                 |                                                                                             | 2483.72  | 56.52  | -17.48 | 74 | 52.4   | 32.96 | 4.73 | 33.57 | 107 | 272 | P | H |
|                                                                 |                                                                                             | 2484.2   | 43.56  | -10.44 | 54 | 39.44  | 32.96 | 4.73 | 33.57 | 107 | 272 | A | H |
|                                                                 |                                                                                             | 2388.84  | 56.1   | -17.9  | 74 | 52.36  | 32.77 | 4.62 | 33.65 | 146 | 343 | P | V |
|                                                                 |                                                                                             | 2388.39  | 43.77  | -10.23 | 54 | 40.03  | 32.77 | 4.62 | 33.65 | 146 | 343 | A | V |
|                                                                 | *                                                                                           | 2450     | 105.85 | -      | -  | 101.88 | 32.89 | 4.68 | 33.6  | 146 | 343 | P | V |
|                                                                 | *                                                                                           | 2450.351 | 95.79  | -      | -  | 91.82  | 32.89 | 4.68 | 33.6  | 146 | 343 | A | V |
|                                                                 |                                                                                             | 2484.48  | 67.17  | -6.83  | 74 | 63.05  | 32.96 | 4.73 | 33.57 | 146 | 343 | P | V |
|                                                                 |                                                                                             | 2483.8   | 50.28  | -3.72  | 54 | 46.16  | 32.96 | 4.73 | 33.57 | 146 | 343 | A | V |
| Remark                                                          | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |    |        |       |      |       |     |     |   |   |



## 15C 2.4GHz 2400~2483.5MHz

## 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+2                                 |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 03<br>2422MHz |                                                                                             | 4845      | 40.69      | -33.31 | 74         | 57.69    | 35.03    | 6.55   | 58.58  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 7266      | 41.38      | -32.62 | 74         | 54.91    | 36.37    | 8.2    | 58.1   | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 4845      | 40.39      | -33.61 | 74         | 57.39    | 35.03    | 6.55   | 58.58  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 7266      | 41.23      | -32.77 | 74         | 54.76    | 36.37    | 8.2    | 58.1   | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 06<br>2437MHz |                                                                                             | 4875      | 40.06      | -33.94 | 74         | 57       | 35.02    | 6.56   | 58.52  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 7311      | 42.34      | -31.66 | 74         | 55.87    | 36.39    | 8.24   | 58.16  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 4875      | 39.77      | -34.23 | 74         | 56.71    | 35.02    | 6.56   | 58.52  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 7311      | 42.39      | -31.61 | 74         | 55.92    | 36.39    | 8.24   | 58.16  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 09<br>2452MHz |                                                                                             | 4905      | 40.83      | -33.17 | 74         | 57.68    | 35.02    | 6.59   | 58.46  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 7356      | 42.96      | -31.04 | 74         | 56.5     | 36.42    | 8.29   | 58.25  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 4905      | 41.78      | -32.22 | 74         | 58.63    | 35.02    | 6.59   | 58.46  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 7356      | 42.48      | -31.52 | 74         | 56.02    | 36.42    | 8.29   | 58.25  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15C Emission below 1GHz

## 2.4GHz WIFI 802.11n HT40 (LF)

| WIFI                            | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|---------------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                            |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11n<br>HT40<br>LF |                                                                            | 90.21     | 28.21      | -15.29 | 43.5       | 50.15  | 8.8      | 1.04   | 31.78  |        |         | P     | H     |
|                                 |                                                                            | 112.08    | 29.92      | -13.58 | 43.5       | 49.2   | 11.35    | 1.15   | 31.78  |        |         | P     | H     |
|                                 |                                                                            | 233.31    | 40.16      | -5.84  | 46         | 59.76  | 10.58    | 1.59   | 31.77  | 159    | 65      | P     | H     |
|                                 |                                                                            | 583.5     | 28.4       | -17.6  | 46         | 38.43  | 19.6     | 2.39   | 32.02  |        |         | P     | H     |
|                                 |                                                                            | 700.4     | 38.19      | -7.81  | 46         | 46.88  | 20.7     | 2.65   | 32.04  |        |         | P     | H     |
|                                 |                                                                            | 817.3     | 34.71      | -11.29 | 46         | 41.14  | 22.54    | 2.86   | 31.83  |        |         | P     | H     |
|                                 |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                 |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                 |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                 |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                 |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                 |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                 |                                                                            | 216.84    | 20.84      | -25.16 | 46         | 41.81  | 9.27     | 1.54   | 31.78  |        |         | P     | V     |
|                                 |                                                                            | 243.3     | 24.81      | -21.19 | 46         | 43.26  | 11.7     | 1.62   | 31.77  |        |         | P     | V     |
|                                 |                                                                            | 282.99    | 16.41      | -29.59 | 46         | 33.54  | 12.89    | 1.74   | 31.76  |        |         | P     | V     |
|                                 |                                                                            | 400.1     | 20.55      | -25.45 | 46         | 34.39  | 15.94    | 2.02   | 31.8   |        |         | P     | V     |
|                                 |                                                                            | 608       | 23.82      | -22.18 | 46         | 33.54  | 19.86    | 2.46   | 32.04  |        |         | P     | V     |
|                                 |                                                                            | 750.1     | 31.12      | -14.88 | 46         | 38.16  | 22.2     | 2.74   | 31.98  | 100    | 189     | P     | 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 per 15.209(c). |
| !   | Test result is <b>over limit</b> line.                                                                                                                                 |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                                          |
| H/V | <b>H</b> orizontal or <b>V</b> ertical                                                                                                                                 |



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

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

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”.**