



Appendix B. Radiated Spurious Emission

| | | | |
|-----------------|--------------------------|---------------------|----------|
| Test Engineer : | Tsung Lee and Stan Hsieh | Temperature : | 21~23 °C |
| | | Relative Humidity : | 46~49% |

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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) | |
| 802.11b CH 01 2412MHz | | 2389.29 | 53.11 | -20.89 | 74 | 53.73 | 27.23 | 5.39 | 33.24 | 136 | 27 | P | H | |
| | | 2390.01 | 44.33 | -9.67 | 54 | 44.93 | 27.23 | 5.39 | 33.22 | 136 | 27 | A | H | |
| | * | 2413.444 | 106.28 | - | - | 106.8 | 27.28 | 5.42 | 33.22 | 136 | 27 | P | H | |
| | * | 2413.611 | 103.77 | - | - | 104.29 | 27.28 | 5.42 | 33.22 | 136 | 27 | A | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | | H |
| | | | 2386.68 | 53.45 | -20.55 | 74 | 54.07 | 27.23 | 5.39 | 33.24 | 141 | 139 | P | V |
| | | | 2390.01 | 44.5 | -9.5 | 54 | 45.1 | 27.23 | 5.39 | 33.22 | 141 | 139 | A | V |
| | * | | 2413.527 | 106.71 | - | - | 107.23 | 27.28 | 5.42 | 33.22 | 141 | 139 | P | V |
| | * | | 2413.444 | 104.19 | - | - | 104.71 | 27.28 | 5.42 | 33.22 | 141 | 139 | A | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| 802.11b CH 06 2437MHz | | 2348.25 | 52.92 | -21.08 | 74 | 53.74 | 27.1 | 5.33 | 33.25 | 248 | 299 | P | H | |
| | | 2389.65 | 42.75 | -11.25 | 54 | 43.37 | 27.23 | 5.39 | 33.24 | 248 | 299 | A | H | |
| | * | 2438.41 | 105.29 | - | - | 105.71 | 27.37 | 5.42 | 33.21 | 248 | 299 | P | H | |
| | * | 2438.577 | 102.73 | - | - | 103.15 | 27.37 | 5.42 | 33.21 | 248 | 299 | A | H | |
| | | | 2496.56 | 52.7 | -21.3 | 74 | 52.91 | 27.5 | 5.46 | 33.17 | 248 | 299 | P | H |
| | | | 2483.56 | 42.7 | -11.3 | 54 | 42.96 | 27.46 | 5.46 | 33.18 | 248 | 299 | A | H |
| | | | 2389.56 | 54.39 | -19.61 | 74 | 55.01 | 27.23 | 5.39 | 33.24 | 298 | 93 | P | V |
| | | | 2389.56 | 42.89 | -11.11 | 54 | 43.51 | 27.23 | 5.39 | 33.24 | 298 | 93 | A | V |
| | * | | 2438.41 | 107.4 | - | - | 107.82 | 27.37 | 5.42 | 33.21 | 298 | 93 | P | V |
| | * | | 2438.577 | 104.85 | - | - | 105.27 | 27.37 | 5.42 | 33.21 | 298 | 93 | A | V |
| | | | 2496.12 | 52.64 | -21.36 | 74 | 52.85 | 27.5 | 5.46 | 33.17 | 298 | 93 | P | V |
| | | | 2484.44 | 42.74 | -11.26 | 54 | 43 | 27.46 | 5.46 | 33.18 | 298 | 93 | A | V |



| | | | | | | | | | | | | | |
|--|---|----------|--------|--------|----|--------|-------|------|-------|-----|----|---|---|
| 802.11b CH 11 2462MHz | * | 2460.621 | 104.28 | - | - | 104.63 | 27.41 | 5.44 | 33.2 | 259 | 62 | P | H |
| | * | 2460.538 | 101.71 | - | - | 102.06 | 27.41 | 5.44 | 33.2 | 259 | 62 | A | H |
| | | 2483.92 | 53.98 | -20.02 | 74 | 54.24 | 27.46 | 5.46 | 33.18 | 259 | 62 | P | H |
| | | 2483.52 | 44.23 | -9.77 | 54 | 44.49 | 27.46 | 5.46 | 33.18 | 259 | 62 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | * | 2460.538 | 105.35 | - | - | 105.7 | 27.41 | 5.44 | 33.2 | 256 | 96 | P | V |
| | * | 2460.621 | 102.74 | - | - | 103.09 | 27.41 | 5.44 | 33.2 | 256 | 96 | A | V |
| | | 2485.24 | 53.66 | -20.34 | 74 | 53.92 | 27.46 | 5.46 | 33.18 | 256 | 96 | P | V |
| | | 2483.76 | 44.09 | -9.91 | 54 | 44.35 | 27.46 | 5.46 | 33.18 | 256 | 96 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

| WIFI Ant. 1 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|-----------------------------|---|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11b CH 01 2412MHz | | 4824 | 49.88 | -24.12 | 74 | 71.45 | 31.46 | 7.58 | 60.61 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | 4824 | 46.49 | -27.51 | 74 | 68.06 | 31.46 | 7.58 | 60.61 | 100 | 0 | P | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| 802.11b CH 06 2437MHz | | 4872 | 48.1 | -25.9 | 74 | 69.36 | 31.56 | 7.7 | 60.52 | 100 | 0 | P | H | |
| | | 7308 | 43.55 | -30.45 | 74 | 58.81 | 36.18 | 9.49 | 60.93 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | 4872 | 47.15 | -26.85 | 74 | 68.41 | 31.56 | 7.7 | 60.52 | 100 | 0 | P | V |
| | | | 7313 | 45.56 | -28.44 | 74 | 60.82 | 36.18 | 9.49 | 60.93 | 100 | 0 | P | V |
| | | | | | | | | | | | | | | V |
| 802.11b CH 11 2462MHz | | 4926 | 57.32 | -16.68 | 74 | 78.15 | 31.66 | 7.93 | 60.42 | 100 | 105 | P | H | |
| | | 4926 | 50.02 | -3.98 | 54 | 70.85 | 31.66 | 7.93 | 60.42 | 100 | 105 | A | H | |
| | | 7386 | 43.92 | -30.08 | 74 | 59.21 | 36.37 | 9.53 | 61.19 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | 4926 | 48.24 | -25.76 | 74 | 69.07 | 31.66 | 7.93 | 60.42 | 100 | 0 | P | V |
| | | | 7386 | 44.5 | -29.5 | 74 | 59.79 | 36.37 | 9.53 | 61.19 | 100 | 0 | P | V |
| | | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

| WIFI Ant. 1 | Note | Frequency (MHz) | Level (dBµV/m) | Over Limit (dB) | Limit Line (dBµV/m) | Read Level (dBµV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|-----------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-----------------|------------|---|
| 802.11g CH 01 2412MHz | | 2389.92 | 61.99 | -12.01 | 74 | 62.59 | 27.23 | 5.39 | 33.22 | 303 | 55 | P | H | |
| | | 2390 | 48.56 | -5.44 | 54 | 49.16 | 27.23 | 5.39 | 33.22 | 303 | 55 | A | H | |
| | * | 2413.611 | 104.9 | - | - | 105.42 | 27.28 | 5.42 | 33.22 | 303 | 55 | P | H | |
| | * | 2413.36 | 97.69 | - | - | 98.21 | 27.28 | 5.42 | 33.22 | 303 | 55 | A | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | | H |
| | | | 2390 | 61.32 | -12.68 | 74 | 61.92 | 27.23 | 5.39 | 33.22 | 156 | 73 | P | V |
| | | | 2390 | 48.05 | -5.95 | 54 | 48.65 | 27.23 | 5.39 | 33.22 | 156 | 73 | A | V |
| | * | | 2413.778 | 106 | - | - | 106.52 | 27.28 | 5.42 | 33.22 | 156 | 73 | P | V |
| | * | | 2413.277 | 98.24 | - | - | 98.76 | 27.28 | 5.42 | 33.22 | 156 | 73 | A | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| 802.11g CH 06 2437MHz | | 2380.83 | 52.76 | -21.24 | 74 | 53.42 | 27.19 | 5.39 | 33.24 | 333 | 10 | P | H | |
| | | 2389.56 | 43.36 | -10.64 | 54 | 43.98 | 27.23 | 5.39 | 33.24 | 333 | 10 | A | H | |
| | * | 2438.243 | 101.95 | - | - | 102.37 | 27.37 | 5.42 | 33.21 | 333 | 10 | P | H | |
| | * | 2437.992 | 94.83 | - | - | 95.25 | 27.37 | 5.42 | 33.21 | 333 | 10 | A | H | |
| | | | 2498.68 | 53.02 | -20.98 | 74 | 53.23 | 27.5 | 5.46 | 33.17 | 333 | 10 | P | H |
| | | | 2483.52 | 43.1 | -10.9 | 54 | 43.36 | 27.46 | 5.46 | 33.18 | 333 | 10 | A | H |
| | | | 2321.97 | 53.11 | -20.89 | 74 | 54.05 | 27.05 | 5.27 | 33.26 | 295 | 96 | P | V |
| | | | 2389.74 | 43.29 | -10.71 | 54 | 43.91 | 27.23 | 5.39 | 33.24 | 295 | 96 | A | V |
| | * | | 2437.992 | 105.09 | - | - | 105.51 | 27.37 | 5.42 | 33.21 | 295 | 96 | P | V |
| | * | | 2438.243 | 97.48 | - | - | 97.9 | 27.37 | 5.42 | 33.21 | 295 | 96 | A | V |
| | | | 2485.68 | 53.87 | -20.13 | 74 | 54.13 | 27.46 | 5.46 | 33.18 | 295 | 96 | P | V |
| | | | 2483.56 | 43.66 | -10.34 | 54 | 43.92 | 27.46 | 5.46 | 33.18 | 295 | 96 | A | V |



| | | | | | | | | | | | | | |
|--|---|----------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| 802.11g CH 11 2462MHz | * | 2455.444 | 103.27 | - | - | 103.62 | 27.41 | 5.44 | 33.2 | 266 | 69 | P | H |
| | * | 2455.194 | 95.34 | - | - | 95.69 | 27.41 | 5.44 | 33.2 | 266 | 69 | A | H |
| | | 2483.56 | 62.44 | -11.56 | 74 | 62.7 | 27.46 | 5.46 | 33.18 | 266 | 69 | P | H |
| | | 2483.64 | 48.35 | -5.65 | 54 | 48.61 | 27.46 | 5.46 | 33.18 | 266 | 69 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | * | 2460.454 | 105.72 | - | - | 106.07 | 27.41 | 5.44 | 33.2 | 233 | 116 | P | V |
| | * | 2460.955 | 97.94 | - | - | 98.29 | 27.41 | 5.44 | 33.2 | 233 | 116 | A | V |
| | | 2483.72 | 66.14 | -7.86 | 74 | 66.4 | 27.46 | 5.46 | 33.18 | 233 | 116 | P | V |
| | | 2483.6 | 49.66 | -4.34 | 54 | 49.92 | 27.46 | 5.46 | 33.18 | 233 | 116 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

| WIFI Ant. 1 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|-----------------------------|--|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11g CH 01 2412MHz | | 4824 | 40.94 | -33.06 | 74 | 62.51 | 31.46 | 7.58 | 60.61 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 4824 | 38.76 | -35.24 | 74 | 60.33 | 31.46 | 7.58 | 60.61 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| 802.11g CH 06 2437MHz | | 4872 | 38.58 | -35.42 | 74 | 59.84 | 31.56 | 7.7 | 60.52 | 100 | 0 | P | H |
| | | 7308 | 43.23 | -30.77 | 74 | 58.49 | 36.18 | 9.49 | 60.93 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 4872 | 39.01 | -34.99 | 74 | 60.27 | 31.56 | 7.7 | 60.52 | 100 | 0 | P | V |
| | | 7308 | 43.36 | -30.64 | 74 | 58.62 | 36.18 | 9.49 | 60.93 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| 802.11g CH 11 2462MHz | | 4920 | 48.13 | -25.87 | 74 | 69.07 | 31.66 | 7.82 | 60.42 | 100 | 0 | P | H |
| | | 7386 | 43.88 | -30.12 | 74 | 59.17 | 36.37 | 9.53 | 61.19 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 4924 | 47.13 | -26.87 | 74 | 67.96 | 31.66 | 7.93 | 60.42 | 100 | 0 | P | V |
| | | 7386 | 45.18 | -28.82 | 74 | 60.47 | 36.37 | 9.53 | 61.19 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. | | | | | | | | | | | | |
| | 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI Ant. 1 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|----------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11n HT20 CH 01 2412MHz | | 2389.74 | 64.95 | -9.05 | 74 | 65.57 | 27.23 | 5.39 | 33.24 | 302 | 56 | P | H | |
| | | 2390 | 49.74 | -4.26 | 54 | 50.34 | 27.23 | 5.39 | 33.22 | 302 | 56 | A | H | |
| | * | 2411.773 | 105.47 | - | - | 105.99 | 27.28 | 5.42 | 33.22 | 302 | 56 | P | H | |
| | * | 2413.277 | 97.58 | - | - | 98.1 | 27.28 | 5.42 | 33.22 | 302 | 56 | A | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | | H |
| | | | 2389.74 | 67.24 | -6.76 | 74 | 67.86 | 27.23 | 5.39 | 33.24 | 208 | 71 | P | V |
| | | | 2390 | 50.59 | -3.41 | 54 | 51.19 | 27.23 | 5.39 | 33.22 | 208 | 71 | A | V |
| | | * | 2413.778 | 105.88 | - | - | 106.4 | 27.28 | 5.42 | 33.22 | 208 | 71 | P | V |
| | | * | 2413.193 | 98.06 | - | - | 98.58 | 27.28 | 5.42 | 33.22 | 208 | 71 | A | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| 802.11n HT20 CH 06 2437MHz | | 2389.2 | 53.87 | -20.13 | 74 | 54.49 | 27.23 | 5.39 | 33.24 | 229 | 299 | P | H | |
| | | 2390 | 43.95 | -10.05 | 54 | 44.55 | 27.23 | 5.39 | 33.22 | 229 | 299 | A | H | |
| | * | 2438.66 | 103.44 | - | - | 103.86 | 27.37 | 5.42 | 33.21 | 229 | 299 | P | H | |
| | * | 2437.909 | 95.76 | - | - | 96.18 | 27.37 | 5.42 | 33.21 | 229 | 299 | A | H | |
| | | | 2492.68 | 53.6 | -20.4 | 74 | 53.81 | 27.5 | 5.46 | 33.17 | 229 | 299 | P | H |
| | | | 2483.8 | 43.34 | -10.66 | 54 | 43.6 | 27.46 | 5.46 | 33.18 | 229 | 299 | A | H |
| | | | 2346.18 | 53.25 | -20.75 | 74 | 54.07 | 27.1 | 5.33 | 33.25 | 295 | 95 | P | V |
| | | | 2389.92 | 43.66 | -10.34 | 54 | 44.26 | 27.23 | 5.39 | 33.22 | 295 | 95 | A | V |
| | | * | 2438.326 | 105.16 | - | - | 105.58 | 27.37 | 5.42 | 33.21 | 295 | 95 | P | V |
| | | * | 2438.243 | 98.05 | - | - | 98.47 | 27.37 | 5.42 | 33.21 | 295 | 95 | A | V |
| | | 2489.2 | 52.96 | -21.04 | 74 | 53.18 | 27.5 | 5.46 | 33.18 | 295 | 95 | P | V | |
| | | 2483.76 | 44.1 | -9.9 | 54 | 44.36 | 27.46 | 5.46 | 33.18 | 295 | 95 | A | V | |



| | | | | | | | | | | | | | |
|---|---|----------|--------|--------|----|--------|-------|------|-------|-----|----|---|---|
| 802.11n HT20 CH 11 2462MHz | * | 2460.371 | 103.52 | - | - | 103.87 | 27.41 | 5.44 | 33.2 | 291 | 52 | P | H |
| | * | 2460.705 | 96.31 | - | - | 96.66 | 27.41 | 5.44 | 33.2 | 291 | 52 | A | H |
| | | 2483.6 | 66.16 | -7.84 | 74 | 66.42 | 27.46 | 5.46 | 33.18 | 291 | 52 | P | H |
| | | 2483.52 | 50.21 | -3.79 | 54 | 50.47 | 27.46 | 5.46 | 33.18 | 291 | 52 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | * | 2460.953 | 103.8 | - | - | 104.15 | 27.41 | 5.44 | 33.2 | 100 | 99 | P | V |
| | * | 2460.872 | 96.27 | - | - | 96.62 | 27.41 | 5.44 | 33.2 | 100 | 99 | A | V |
| | | 2483.6 | 63.73 | -10.27 | 74 | 63.99 | 27.46 | 5.46 | 33.18 | 100 | 99 | P | V |
| | | 2483.52 | 49.31 | -4.69 | 54 | 49.57 | 27.46 | 5.46 | 33.18 | 100 | 99 | A | V |
| | | | | | | | | | | | | V | |
| | | | | | | | | | | | | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI Ant. 1 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|-------------------------------|--|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11n HT20 CH 01 2412MHz | | 4824 | 39.86 | -34.14 | 74 | 61.43 | 31.46 | 7.58 | 60.61 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | 4824 | 38.5 | -35.5 | 74 | 60.07 | 31.46 | 7.58 | 60.61 | 100 | 0 | P | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| 802.11n HT20 CH 06 2437MHz | | 4872 | 38.39 | -35.61 | 74 | 59.65 | 31.56 | 7.7 | 60.52 | 100 | 0 | P | H | |
| | | 7308 | 42.72 | -31.28 | 74 | 57.98 | 36.18 | 9.49 | 60.93 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | 4872 | 39.49 | -34.51 | 74 | 60.75 | 31.56 | 7.7 | 60.52 | 100 | 0 | P | V |
| | | | 7308 | 43.17 | -30.83 | 74 | 58.43 | 36.18 | 9.49 | 60.93 | 100 | 0 | P | V |
| | | | | | | | | | | | | | | V |
| 802.11n HT20 CH 11 2462MHz | | 4926 | 45.71 | -28.29 | 74 | 66.54 | 31.66 | 7.93 | 60.42 | 100 | 0 | P | H | |
| | | 7386 | 43.21 | -30.79 | 74 | 58.5 | 36.37 | 9.53 | 61.19 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | 4924 | 45.89 | -28.11 | 74 | 66.72 | 31.66 | 7.93 | 60.42 | 100 | 0 | P | V |
| | | | 7386 | 43.47 | -30.53 | 74 | 58.76 | 36.37 | 9.53 | 61.19 | 100 | 0 | P | V |
| | | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. | | | | | | | | | | | | | |
| | 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI Ant. 1 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|----------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11n HT40 CH 03 2422MHz | | 2389.74 | 66.1 | -7.9 | 74 | 66.72 | 27.23 | 5.39 | 33.24 | 305 | 54 | P | H |
| | | 2390 | 50.25 | -3.75 | 54 | 50.85 | 27.23 | 5.39 | 33.22 | 305 | 54 | A | H |
| | * | 2420.955 | 101.53 | - | - | 102 | 27.32 | 5.42 | 33.21 | 305 | 54 | P | H |
| | * | 2420.205 | 93.57 | - | - | 94.04 | 27.32 | 5.42 | 33.21 | 305 | 54 | A | H |
| | | 2484.56 | 52.14 | -21.86 | 74 | 52.4 | 27.46 | 5.46 | 33.18 | 305 | 54 | P | H |
| | | 2483.72 | 43.15 | -10.85 | 54 | 43.41 | 27.46 | 5.46 | 33.18 | 305 | 54 | A | H |
| | | 2389.74 | 65.2 | -8.8 | 74 | 65.82 | 27.23 | 5.39 | 33.24 | 197 | 86 | P | V |
| | | 2389.56 | 49.49 | -4.51 | 54 | 50.11 | 27.23 | 5.39 | 33.24 | 197 | 86 | A | V |
| | * | 2420.207 | 100.9 | - | - | 101.37 | 27.32 | 5.42 | 33.21 | 197 | 86 | P | V |
| | * | 2420.957 | 93.79 | - | - | 94.26 | 27.32 | 5.42 | 33.21 | 197 | 86 | A | V |
| | | 2492.6 | 53.51 | -20.49 | 74 | 53.72 | 27.5 | 5.46 | 33.17 | 197 | 86 | P | V |
| | | 2483.68 | 43.31 | -10.69 | 54 | 43.57 | 27.46 | 5.46 | 33.18 | 197 | 86 | A | V |
| 802.11n HT40 CH 06 2437MHz | | 2389.74 | 62.92 | -11.08 | 74 | 63.54 | 27.23 | 5.39 | 33.24 | 249 | 299 | P | H |
| | | 2389.83 | 47.68 | -6.32 | 54 | 48.28 | 27.23 | 5.39 | 33.22 | 249 | 299 | A | H |
| | * | 2439 | 101.41 | - | - | 101.83 | 27.37 | 5.42 | 33.21 | 249 | 299 | P | H |
| | * | 2439 | 93.99 | - | - | 94.41 | 27.37 | 5.42 | 33.21 | 249 | 299 | A | H |
| | | 2483.52 | 57.84 | -16.16 | 74 | 58.1 | 27.46 | 5.46 | 33.18 | 249 | 299 | P | H |
| | | 2483.52 | 46.6 | -7.4 | 54 | 46.86 | 27.46 | 5.46 | 33.18 | 249 | 299 | A | H |
| | | 2389.65 | 59.23 | -14.77 | 74 | 59.85 | 27.23 | 5.39 | 33.24 | 326 | 95 | P | V |
| | | 2389.83 | 47.61 | -6.39 | 54 | 48.21 | 27.23 | 5.39 | 33.22 | 326 | 95 | A | V |
| | * | 2439 | 104.26 | - | - | 104.68 | 27.37 | 5.42 | 33.21 | 326 | 95 | P | V |
| | * | 2439 | 96.85 | - | - | 97.27 | 27.37 | 5.42 | 33.21 | 326 | 95 | A | V |
| | | 2483.64 | 61.28 | -12.72 | 74 | 61.54 | 27.46 | 5.46 | 33.18 | 326 | 95 | P | V |
| | | 2483.52 | 48.64 | -5.36 | 54 | 48.9 | 27.46 | 5.46 | 33.18 | 326 | 95 | A | V |



| | | | | | | | | | | | | | |
|---|---|----------|--------|--------|----|--------|-------|------|-------|-----|----|---|---|
| 802.11n HT40 CH 09 2452MHz | | 2387.13 | 52.53 | -21.47 | 74 | 53.15 | 27.23 | 5.39 | 33.24 | 102 | 52 | P | H |
| | | 2389.2 | 42.98 | -11.02 | 54 | 43.6 | 27.23 | 5.39 | 33.24 | 102 | 52 | A | H |
| | * | 2450.933 | 102.53 | - | - | 102.92 | 27.37 | 5.44 | 33.2 | 102 | 52 | P | H |
| | * | 2450.017 | 95.44 | - | - | 95.83 | 27.37 | 5.44 | 33.2 | 102 | 52 | A | H |
| | | 2483.56 | 68.19 | -5.81 | 74 | 68.45 | 27.46 | 5.46 | 33.18 | 102 | 52 | P | H |
| | | 2483.6 | 50.64 | -3.36 | 54 | 50.9 | 27.46 | 5.46 | 33.18 | 102 | 52 | A | H |
| | | 2360.67 | 52.09 | -21.91 | 74 | 52.87 | 27.14 | 5.33 | 33.25 | 102 | 53 | P | V |
| | | 2388.48 | 42.89 | -11.11 | 54 | 43.51 | 27.23 | 5.39 | 33.24 | 102 | 53 | A | V |
| | * | 2450.184 | 101.82 | - | - | 102.21 | 27.37 | 5.44 | 33.2 | 102 | 53 | P | V |
| | * | 2450.85 | 94.05 | - | - | 94.44 | 27.37 | 5.44 | 33.2 | 102 | 53 | A | V |
| | | 2483.52 | 66.99 | -7.01 | 74 | 67.25 | 27.46 | 5.46 | 33.18 | 102 | 53 | P | V |
| | | 2483.52 | 49.45 | -4.55 | 54 | 49.71 | 27.46 | 5.46 | 33.18 | 102 | 53 | A | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI Ant. 1 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------------------------|--|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11n HT40 CH 03 2422MHz | | 4844 | 37.98 | -36.02 | 74 | 59.37 | 31.49 | 7.7 | 60.58 | 100 | 0 | P | H |
| | | 7266 | 43.15 | -30.85 | 74 | 58.41 | 36.11 | 9.46 | 60.83 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 4844 | 37.95 | -36.05 | 74 | 59.34 | 31.49 | 7.7 | 60.58 | 100 | 0 | P | V |
| | | 7266 | 42.64 | -31.36 | 74 | 57.9 | 36.11 | 9.46 | 60.83 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| 802.11n HT40 CH 06 2437MHz | | 4874 | 32.34 | -41.66 | 74 | 53.6 | 31.56 | 7.7 | 60.52 | 100 | 0 | P | H |
| | | 7311 | 39.88 | -34.12 | 74 | 55.14 | 36.18 | 9.49 | 60.93 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 4874 | 38.38 | -35.62 | 74 | 59.64 | 31.56 | 7.7 | 60.52 | 100 | 0 | P | V |
| | | 7311 | 41.8 | -32.2 | 74 | 57.06 | 36.18 | 9.49 | 60.93 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| 802.11n HT40 CH 09 2452MHz | | 4904 | 42.9 | -31.1 | 74 | 63.91 | 31.63 | 7.82 | 60.46 | 100 | 0 | P | H |
| | | 7356 | 42.79 | -31.21 | 74 | 58.07 | 36.3 | 9.51 | 61.09 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 4904 | 40.26 | -33.74 | 74 | 61.27 | 31.63 | 7.82 | 60.46 | 100 | 0 | P | V |
| | | 7356 | 42.9 | -31.1 | 74 | 58.18 | 36.3 | 9.51 | 61.09 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. | | | | | | | | | | | | |
| | 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Emission below 1GHz
2.4GHz WIFI 802.11b (LF)

| WIFI Ant. 1 | Note | Frequency (MHz) | Level (dBµV/m) | Over Limit (dB) | Limit Line (dBµV/m) | Read Level (dBµV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------|--|-------------------|------------------|-------------------|-----------------------|-------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-----------------|------------|
| | | 56.73 | 21.93 | -18.07 | 40 | 46.73 | 7.03 | 0.93 | 32.76 | - | - | P | H |
| | | 106.41 | 27.95 | -15.55 | 43.5 | 48.35 | 11.1 | 1.14 | 32.64 | - | - | P | H |
| | | 178.5 | 30.32 | -13.18 | 43.5 | 52.02 | 9.53 | 1.48 | 32.71 | - | - | P | H |
| | | 756.4 | 31.95 | -14.05 | 46 | 40.3 | 21.67 | 2.91 | 32.93 | - | - | P | H |
| | | 825 | 39.54 | -6.46 | 46 | 46.91 | 22.3 | 3.07 | 32.74 | 100 | 5 | P | H |
| | | 848.1 | 27.58 | -18.42 | 46 | 34.55 | 22.48 | 3.16 | 32.61 | - | - | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 2.4GHz | | | | | | | | | | | | | H |
| 802.11b | | | | | | | | | | | | | H |
| LF | | 31.62 | 28.53 | -11.47 | 40 | 41.78 | 18.92 | 0.65 | 32.82 | - | - | P | V |
| | | 40.8 | 29.37 | -10.63 | 40 | 47.58 | 13.94 | 0.65 | 32.8 | - | - | P | V |
| | | 179.31 | 26.94 | -16.56 | 43.5 | 48.71 | 9.46 | 1.48 | 32.71 | - | - | P | V |
| | | 412.7 | 23.41 | -22.59 | 46 | 37.38 | 16.72 | 2.16 | 32.85 | - | - | P | V |
| | | 756.4 | 25.36 | -20.64 | 46 | 33.71 | 21.67 | 2.91 | 32.93 | - | - | P | V |
| | | 825 | 35.71 | -10.29 | 46 | 43.08 | 22.3 | 3.07 | 32.74 | 102 | 89 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. 2. All results are PASS against limit line. | | | | | | | | | | | | |



Note symbol

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



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

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

- 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”.