

Appendix A: Test Data

| Duty cycle | | | | | | |
|--------------|-----------------|--------------|------------------|----------------|------------------|-----------------------|
| Mode | Frequency (MHz) | On time (ms) | On+off time (ms) | Duty cycle (%) | Duty Factor (dB) | 1/T Minimum VBW (kHz) |
| 802.11b | 2412 | 30.000 | 30.000 | 100.000 | 0.000 | 0.010 |
| 802.11g | 2412 | 1.405 | 1.445 | 97.232 | 0.122 | 0.712 |
| 802.11n HT20 | 2412 | 0.681 | 0.726 | 93.802 | 0.278 | 1.468 |
| 802.11n HT40 | 2422 | 0.356 | 0.402 | 88.557 | 0.528 | 2.809 |

| 2.4 GHz Band | | | | | | | |
|--------------|----|-------------|-----------------------------|-------|-------|-------|-----------------|
| Mode | CH | Freq. (MHz) | RF power setting in Test SW | | | | Test SW Version |
| | | | Ant-0 | Ant-1 | Ant-2 | Ant-3 | |
| 802.11b | 1 | 2412 | 17.00 | 17.00 | - | - | ADB |
| 802.11b | 6 | 2437 | 17.00 | 17.00 | - | - | |
| 802.11b | 11 | 2462 | 17.00 | 17.00 | - | - | |
| 802.11g | 1 | 2412 | 13.00 | 13.00 | - | - | |
| 802.11g | 6 | 2437 | 13.00 | 13.00 | - | - | |
| 802.11g | 11 | 2462 | 13.00 | 13.00 | - | - | |
| 802.11n HT20 | 1 | 2412 | 13.00 | 13.00 | - | - | |
| 802.11n HT20 | 6 | 2437 | 14.00 | 14.00 | - | - | |
| 802.11n HT20 | 11 | 2462 | 13.00 | 13.00 | - | - | |
| 802.11n HT40 | 3 | 2422 | 12.00 | 12.00 | - | - | |
| 802.11n HT40 | 6 | 2437 | 14.00 | 14.00 | - | - | |
| 802.11n HT40 | 9 | 2452 | 13.00 | 13.00 | - | - | |

| 2.4 GHz Band Config | | | |
|---------------------|---------|-------------|-----------|
| Mode | Channel | Freq. (MHz) | Data Rate |
| 802.11b | 1 | 2412 | 1M |
| 802.11b | 6 | 2437 | 1M |
| 802.11b | 11 | 2462 | 1M |
| 802.11g | 1 | 2412 | 6M |
| 802.11g | 6 | 2437 | 6M |
| 802.11g | 11 | 2462 | 6M |
| 802.11n HT20 | 1 | 2412 | 13M |
| 802.11n HT20 | 6 | 2437 | 13M |
| 802.11n HT20 | 11 | 2462 | 13M |
| 802.11n HT40 | 3 | 2422 | 27M |
| 802.11n HT40 | 6 | 2437 | 27M |
| 802.11n HT40 | 9 | 2452 | 27M |

| 2.4 GHz Band | | | | | | | | | | | | | | | | | |
|--------------|----|-------------|---------------------------|-------|-------|-------|-------|----------------------------|-------|-------|-------|-----|-----------------------------|-------|-------|-------|-------|
| Mode | CH | Freq. (MHz) | Avg Conducted Power (dBm) | | | | | Peak Conducted Power (dBm) | | | | | Conducted Power Limit (dBm) | | | | |
| | | | Ant-0 | Ant-1 | Ant-2 | Ant-3 | SUM | Ant-0 | Ant-1 | Ant-2 | Ant-3 | SUM | Ant-0 | Ant-1 | Ant-2 | Ant-3 | SUM |
| 802.11b | 1 | 2412 | 17.58 | 17.02 | - | - | 20.32 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11b | 6 | 2437 | 18.01 | 17.18 | - | - | 20.63 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11b | 11 | 2462 | 17.72 | 17.31 | - | - | 20.53 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11g | 1 | 2412 | 14.97 | 14.47 | - | - | 17.74 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11g | 6 | 2437 | 14.89 | 14.21 | - | - | 17.57 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11g | 11 | 2462 | 14.85 | 14.69 | - | - | 17.78 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11n HT20 | 1 | 2412 | 14.40 | 14.13 | - | - | 17.28 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11n HT20 | 6 | 2437 | 15.31 | 14.69 | - | - | 18.02 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11n HT20 | 11 | 2462 | 14.31 | 14.28 | - | - | 17.31 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11n HT40 | 3 | 2422 | 14.11 | 13.95 | - | - | 17.04 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11n HT40 | 6 | 2437 | 15.52 | 14.90 | - | - | 18.23 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |
| 802.11n HT40 | 9 | 2452 | 14.53 | 14.25 | - | - | 17.40 | - | - | - | - | - | 30.00 | 30.00 | - | - | 30.00 |

| 6 dB Bandwidth | | | | | | |
|----------------|-------------|----------------------|-------|-------|-------|--------------------------------|
| Mode | Freq. (MHz) | 6 dB Bandwidth (kHz) | | | | 6 dB Bandwidth Min.Limit (kHz) |
| | | Ant-0 | Ant-1 | Ant-2 | Ant-3 | |
| 802.11b | 2412 | 9113 | 9131 | - | - | ≥ 500 |
| 802.11b | 2437 | 9104 | 8599 | - | - | ≥ 500 |
| 802.11b | 2462 | 9109 | 8603 | - | - | ≥ 500 |
| 802.11g | 2412 | 15160 | 15160 | - | - | ≥ 500 |
| 802.11g | 2437 | 15160 | 15160 | - | - | ≥ 500 |
| 802.11g | 2462 | 15160 | 15160 | - | - | ≥ 500 |
| 802.11n HT20 | 2412 | 15160 | 15160 | - | - | ≥ 500 |
| 802.11n HT20 | 2437 | 15160 | 15160 | - | - | ≥ 500 |
| 802.11n HT20 | 2462 | 15160 | 15150 | - | - | ≥ 500 |
| 802.11n HT40 | 2422 | 35190 | 35160 | - | - | ≥ 500 |
| 802.11n HT40 | 2437 | 35140 | 35130 | - | - | ≥ 500 |
| 802.11n HT40 | 2452 | 35190 | 35170 | - | - | ≥ 500 |

| 99 % Occupied BW | | | | | |
|------------------|-------------|------------------------|--------|-------|-------|
| Mode | Freq. (MHz) | 99 % Occupied BW (MHz) | | | |
| | | Ant-0 | Ant-1 | Ant-2 | Ant-3 |
| 802.11b | 2412 | 13.556 | 14.049 | - | - |
| 802.11b | 2437 | 13.605 | 13.968 | - | - |
| 802.11b | 2462 | 13.593 | 13.859 | - | - |
| 802.11g | 2412 | 16.750 | 16.538 | - | - |
| 802.11g | 2437 | 16.783 | 16.559 | - | - |
| 802.11g | 2462 | 16.731 | 16.539 | - | - |
| 802.11n HT20 | 2412 | 17.631 | 17.622 | - | - |
| 802.11n HT20 | 2437 | 17.650 | 17.645 | - | - |
| 802.11n HT20 | 2462 | 17.639 | 17.620 | - | - |
| 802.11n HT40 | 2422 | 36.354 | 36.353 | - | - |
| 802.11n HT40 | 2437 | 36.282 | 36.268 | - | - |
| 802.11n HT40 | 2452 | 36.364 | 36.344 | - | - |

| Maximum Power Spectral Density Measurement | | | | | | | | | | | |
|--|-------------|-------------------------|--------|-------|-------|--------|------------------------|-------|-------|-------|------|
| Mode | Freq. (MHz) | Measurement (dBm/3 kHz) | | | | | Max.Limit (dBm/ 3 kHz) | | | | |
| | | Ant-0 | Ant-1 | Ant-2 | Ant-3 | SUM | Ant-0 | Ant-1 | Ant-2 | Ant-3 | SUM |
| 802.11b | 2412 | 0.02 | -0.14 | - | - | 2.95 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11b | 2437 | 5.54 | 2.05 | - | - | 7.15 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11b | 2462 | 4.93 | 4.46 | - | - | 7.71 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11g | 2412 | -12.82 | -12.44 | - | - | -9.62 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11g | 2437 | -12.28 | -11.32 | - | - | -8.76 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11g | 2462 | -11.46 | -11.74 | - | - | -8.59 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11n HT20 | 2412 | -11.69 | -10.92 | - | - | -8.28 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11n HT20 | 2437 | -11.05 | -10.53 | - | - | -7.77 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11n HT20 | 2462 | -12.50 | -10.71 | - | - | -8.50 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11n HT40 | 2422 | -15.67 | -14.78 | - | - | -12.19 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11n HT40 | 2437 | -12.85 | -13.65 | - | - | -10.22 | 8.00 | 8.00 | - | - | 8.00 |
| 802.11n HT40 | 2452 | -14.28 | -13.56 | - | - | -10.89 | 8.00 | 8.00 | - | - | 8.00 |