

10. MPE ESTIMATION

10.1. Limit for General Population/ Uncontrolled Exposures

| Frequency | Power density (mW/ cm ²) | Averaging time(minutes) |
|------------------|--------------------------------------|-------------------------|
| 300MHz----1.5GHz | F/1500 | 30 |
| 1.5GHz---100GHz | 1.0 | 30 |

| Frequency(MHz) | Power density (mW/ cm ²) | Averaging time(minutes) |
|----------------|--------------------------------------|-------------------------|
| 2412 | 1 | 30 |
| 2437 | 1 | 30 |
| 2462 | 1 | 30 |

Note: F= Frequency in MHz

10.2. Estimation Result

| | | |
|--|------------------------|-----------------------|
| EUT: 300Mbps Wireless N Gigabit Access Point | | |
| M/N: EAP120 | | |
| Test date: 2014-11-30 | Pressure: 101.6±1.0kpa | Humidity: 52.9±3.0% |
| Tested by: Alice_yang | Test site: RF site | Temperature: 22.6±0.6 |

| Test Mode | CH | Frequency (MHz) | Peak Output Power (dBm) | Output Power (mW) | Antenna Gain (dBi) | Antenna Gain (Linear) | MPE |
|-----------|------|-------------------|-------------------------|-------------------|--------------------|-----------------------|--------|
| 11b | CH1 | 2412 | 26.54 | 450.82 | 3 | 2.00 | 0.1790 |
| | CH6 | 2437 | 27.20 | 524.81 | 3 | 2.00 | 0.2084 |
| | CH11 | 2462 | 27.05 | 506.99 | 3 | 2.00 | 0.2013 |
| 11g | CH1 | 2412 | 23.93 | 247.17 | 3 | 2.00 | 0.0982 |
| | CH6 | 2437 | 23.91 | 246.04 | 3 | 2.00 | 0.0977 |
| | CH11 | 2462 | 23.72 | 235.50 | 3 | 2.00 | 0.0935 |
| 11n HT20 | CH1 | 2412 | 24.18 | 261.82 | 3 | 2.00 | 0.1040 |
| | CH6 | 2437 | 23.74 | 236.59 | 3 | 2.00 | 0.0940 |
| | CH11 | 2462 | 23.69 | 233.88 | 3 | 2.00 | 0.0929 |
| 11n HT40 | CH3 | 2422 | 21.24 | 133.05 | 3 | 2.00 | 0.0528 |
| | CH6 | 2437 | 24.07 | 255.27 | 3 | 2.00 | 0.1014 |
| | CH9 | 2452 | 22.78 | 189.67 | 3 | 2.00 | 0.0753 |

$$MPE = \frac{PG}{4\pi R^2} \quad (R=20cm)$$