

9. MPE ESTIMATION

9.1.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 | 1.0 | 30 |
| 2442 | 1.0 | 30 |
| 2462 | 1.0 | 30 |

Note: F = Frequency in MHz

9.2.Estimation Result

2.1 IEEE 802.11b Mode

| Channel | Frequency(MHz) | Peak output power(dBm) | antenna gain(dBi) | antenna gain (Linear) |
|---------|----------------|------------------------|-------------------|-----------------------|
| 1 | 2412 | 22.51 | 3 | 2 |
| 7 | 2442 | 21.66 | 3 | 2 |
| 11 | 2462 | 21.13 | 3 | 2 |

| Channel | Frequency(MHz) | Peak output power to antenna (mW) | Power density at 20cm(mW/ cm ²) |
|---------|----------------|-----------------------------------|---|
| 1 | 2412 | 355.63 | 0.071 |
| 7 | 2442 | 292.42 | 0.058 |
| 11 | 2462 | 259.44 | 0.052 |

2.2 IEEE 802.11g Mode

| Channel | Frequency(MHz) | Peak output power(dBm) | antenna gain(dBi) | antenna gain (Linear) |
|---------|----------------|------------------------|-------------------|-----------------------|
| 1 | 2412 | 23.38 | 3 | 2 |
| 7 | 2442 | 23.66 | 3 | 2 |
| 11 | 2462 | 23.45 | 3 | 2 |

| Channel | Frequency(MHz) | Peak output power to antenna (mW) | Power density at 20cm(mW/ cm ²) |
|---------|----------------|-----------------------------------|---|
| 1 | 2412 | 434.51 | 0.086 |
| 7 | 2442 | 463.45 | 0.092 |
| 11 | 2462 | 442.62 | 0.088 |

