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## 11.MPE ESTIMATION

## 11.1.Limit for General Population/ Uncontrolled Exposures

| Frequency    | Power density (mW/ cm <sup>2</sup> ) | Averaging time(minutes) |  |  |
|--------------|--------------------------------------|-------------------------|--|--|
| 300MHz1.5GHz | F/1500                               | 30                      |  |  |
| 1.5GHz100GHz | 1.0                                  | 30                      |  |  |

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

Note: F= Frequency in MHz

## 11.2.2, Estimation Result

| Mode        | СН | Frequency (MHz) | PK Output<br>power<br>(dBm) | Output power (mW) | antenna Gain<br>(dBi) | antenna<br>Gain(linear) | MPE    |
|-------------|----|-----------------|-----------------------------|-------------------|-----------------------|-------------------------|--------|
| 11b         | 1  | 2412            | 19.27                       | 84.53             | 5                     | 3.16                    | 0.0532 |
|             | 6  | 2437            | 22.65                       | 184.08            | 5                     | 3.16                    | 0.1159 |
|             | 11 | 2462            | 20.60                       | 114.82            | 5                     | 3.16                    | 0.0723 |
| 11g         | 1  | 2412            | 21.52                       | 141.91            | 5                     | 3.16                    | 0.0893 |
|             | 6  | 2437            | 20.81                       | 120.50            | 5                     | 3.16                    | 0.0758 |
|             | 11 | 2462            | 20.88                       | 122.46            | 5                     | 3.16                    | 0.0771 |
| 11n<br>HT20 | 1  | 2412            | 20.34                       | 108.14            | 5                     | 3.16                    | 0.0681 |
|             | 6  | 2437            | 21.97                       | 157.40            | 5                     | 3.16                    | 0.0991 |
|             | 11 | 2462            | 17.72                       | 59.16             | 5                     | 3.16                    | 0.0372 |
| 11n<br>HT40 | 1  | 2422            | 11.24                       | 13.30             | 5                     | 3.16                    | 0.0084 |
|             | 4  | 2437            | 20.01                       | 100.23            | 5                     | 3.16                    | 0.0631 |
|             | 7  | 2452            | 14.45                       | 27.86             | 5                     | 3.16                    | 0.0175 |

Note: The estimation distance is 20cm