

MPE ESTIMATION

FCC ID: 2AL94-GXWRP300C

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 |

Note: F= Frequency in MHz

2, Estimation Result

For antenna 1:

| Mode | Max PK Output power(dBm) | Tune Up Power(dBm) | Max Tune Up power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm ²) |
|----------|--------------------------|--------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 11b | 18.26 | 18±1(19) | 79.43 | 2 | 1.585 | 0.02506 |
| 11g | 17.48 | 17±1(18) | 63.10 | 2 | 1.585 | 0.01991 |
| 11n/HT20 | 16.56 | 16±1(17) | 50.12 | 2 | 1.585 | 0.01581 |
| 11n/HT40 | 15.33 | 15±1(16) | 39.81 | 2 | 1.585 | 0.01256 |

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK170511021-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi.

| Mode | Max PK Output power(dBm) | Tune Up Power(dBm) | Max Tune Up power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm²) |
|----------|--------------------------|--------------------|-----------------------|-------------------|-----------------------|--------------|
| 11b | 18.58 | 18±1(19) | 79.43 | 2 | 1.585 | 0.02506 |
| 11g | 17.92 | 17±1(18) | 63.10 | 2 | 1.585 | 0.01991 |
| 11n/HT20 | 17.24 | 17±1(18) | 63.10 | 2 | 1.585 | 0.01991 |
| 11n/HT40 | 15.82 | 15±1(16) | 39.81 | 2 | 1.585 | 0.01256 |

Note:

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK170511021-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi.

| Mode | Max PK Output power(dBm) | Tune Up Power(dBm) | Max Tune Up power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm²) |
|----------|-----------------------------|-----------------------|--------------------------|----------------------|--------------------------|-----------------|
| 11b | -- | -- | -- | -- | -- | -- |
| 11g | -- | -- | -- | -- | -- | -- |
| 11n/HT20 | 19.86 | 19±1(20) | 100 | 2 | 1.585 | 0.03155 |
| 11n/HT40 | 18.55 | 19±1(20) | 100 | 2 | 1.585 | 0.03155 |

$$Pd = \frac{P_{out} * G}{4\pi r^2} ;$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK170511021-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi.

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK170511021-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi.

| Mode | CH | PK Output power(dBm) | Output power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm ²) |
|---|------|----------------------|------------------|-------------------|-----------------------|---------------------------|
| 11b | CH1 | -- | -- | -- | -- | -- |
| | CH6 | -- | -- | -- | -- | -- |
| | CH11 | -- | -- | -- | -- | -- |
| 11g | CH1 | -- | -- | -- | -- | -- |
| | CH6 | -- | -- | -- | -- | -- |
| | CH11 | -- | -- | -- | -- | -- |
| 11n/HT20 | CH1 | 19.82 | 95.94 | 2 | 1.585 | 0.03027 |
| | CH6 | 19.85 | 96.61 | 2 | 1.585 | 0.03048 |
| | CH11 | 19.86 | 96.83 | 2 | 1.585 | 0.03055 |
| 11n/HT40 | CH1 | 18.55 | 71.61 | 2 | 1.585 | 0.02259 |
| | CH4 | 18.54 | 71.45 | 2 | 1.585 | 0.02254 |
| | CH7 | 18.41 | 69.34 | 2 | 1.585 | 0.02188 |
| $Pd = \frac{P_{out} * G}{4\pi r^2};$ | | | | | | |
| Note: | | | | | | |
| Note: The estimation distance is 20cm | | | | | | |
| Note: PK Output power= conducted power. Conducted power see the test report HK170511021-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi. | | | | | | |

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