

1. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission’s guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Averaging Time (minute) |
|---|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | F/1500 | 30 |
| 1500-15000 | / | / | 1.0 | 30 |

F = frequency in MHz

* = Plane-wave equipment power density

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Maximum Permissible Exposure (MPE) Evaluation

| Frequency (MHz) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|--------------------|------------------|-----------|
| 5180 | 16.70 | 0.047 | 0.25 |
| 5220 | 16.47 | 0.044 | 0.25 |
| 5240 | 15.75 | 0.038 | 0.25 |

MPE Prediction (802.11a 5180~5240)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|--------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 16.70 | (dBm) |
| Maximum peak output power at antenna input terminal: | 46.7735141 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 46.7735141 | (mW) |
| Antenna gain (Maximum): | 2 | (dBi) |
| Antenna gain (linear): | 1.58489319 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5180 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0147554 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.0147554 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5180MHz.

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| Frequency (MHz) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|--------------------|------------------|-----------|
| 5745 | 13.87 | 0.024 | 1 |
| 5785 | 14.16 | 0.026 | 1 |
| 5825 | 13.42 | 0.022 | 1 |

MPE Prediction (802.11a 5745~5825)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 14.16 | (dBm) |
| Maximum peak output power at antenna input terminal: | 26.0615355 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 26.0615355 | (mW) |
| Antenna gain (Maximum): | 2 | (dBi) |
| Antenna gain (linear): | 1.58489319 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5785 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0082215 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.0082215 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5785MHz.

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| Frequency (MHz) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|--------------------|------------------|-----------|
| 5180 | 17.56 | 0.057 | 0.25 |
| 5220 | 16.46 | 0.044 | 0.25 |
| 5240 | 16.57 | 0.045 | 0.25 |

MPE Prediction (802.11n_HT20 5180~5240)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 17.56 | (dBm) |
| Maximum peak output power at antenna input terminal: | 57.0164272 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 57.0164272 | (mW) |
| Antenna gain (Maximum): | 2 | (dBi) |
| Antenna gain (linear): | 1.58489319 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5180 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0179867 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.0179867 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5180MHz.

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| Frequency (MHz) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|--------------------|------------------|-----------|
| 5745 | 16.34 | 0.043 | 1 |
| 5785 | 16.09 | 0.041 | 1 |
| 5825 | 15.25 | 0.033 | 1 |

MPE Prediction (802.11 n_HT20 5745~5825)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 16.34 | (dBm) |
| Maximum peak output power at antenna input terminal: | 43.052661 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 43.052661 | (mW) |
| Antenna gain (Maximum): | 2 | (dBi) |
| Antenna gain (linear): | 1.58489319 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5745 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0135816 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.0135816 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5745MHz.

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| Frequency (MHz) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|--------------------|------------------|-----------|
| 5190 | 12.05 | 0.016 | 0.25 |
| 5230 | 11.15 | 0.013 | 0.25 |

MPE Prediction (802.11n_HT40 5190~5230)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 12.05 | (dBm) |
| Maximum peak output power at antenna input terminal: | 16.0324539 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 16.0324539 | (mW) |
| Antenna gain (Maximum): | 2 | (dBi) |
| Antenna gain (linear): | 1.58489319 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5190 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0050577 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.0050577 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5190MHz.

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| Frequency (MHz) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|--------------------|------------------|-----------|
| 5755 | 14.64 | 0.029 | 1 |
| 5795 | 16.92 | 0.049 | 1 |

MPE Prediction (802.11n_HT40 5745~5795)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|--------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 16.92 | (dBm) |
| Maximum peak output power at antenna input terminal: | 49.2039536 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 49.2039536 | (mW) |
| Antenna gain (Maximum): | 2 | (dBi) |
| Antenna gain (linear): | 1.58489319 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5795 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0155221 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.0155221 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5795MHz.

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