# Declaration of Electromagnetic Field Health Compliance

To whom it may concern,

As to the product **pRU01-B02** made by Huawei Technologies Co., Ltd., we declare that it complies with the Basic restrictions/Reference levels for electric, magnetic and electromagnetic fields as specified in following standards(s):

| Nr. | Standard |
|---|---|
| 1 | 47CFR FCC Part 1 (10-1-13 Edition) |
| 2 | RSS-102 (Issue4, March 2010) |

The compliance is demonstrated based on the following calculation model assessment:

1. The power density according to far-field model is:

$$S = \frac{P \times G_{(\theta,\phi)}}{4 \times \pi \times R^2}$$

Where:

$P$ = input power of the antenna.

$G$ = antenna gain relative to an isotropic antenna.

$\theta, \phi$ = elevation and azimuth angles.

$R$ = distance from the antenna to the point of investigation.

2. For single or multiple RF sources, the calculated power density should comply with following:

$$\sum_i \frac{S_i}{S_{Limit,i}} \le 1$$

Where:

$S_i$ = the power density when the $f$ is $i$.

$S_{Limit,i}$ = the reference level requirement for power density when $f$ is $i$.

3. The calculation of the power density or safe distance is:

NOTE 1: The RF exposure evaluation is base on the far-field and the radiation exposure is over-estimated.

NOTE 2: The maximum output power level is taken into account as a worst case for the purpose of the calculation of power density or safe distance.

NOTE 3: The minimum antenna feed cable loss (assumed no cable loss) is taken into account as a worst case for the purpose of the calculation of power density or safe distance.

NOTE 4: The maximum antenna radiation exposure orientation and maximum antenna gain is taken into account as a worst case for the purpose of the calculation of power density or safe distance.

PCS Band:

| RF Source | Calculation | | |
|---|---|---|---|
| RF Source #1 | $f$ | = | 1930 to 1990 MHz |
| | $S_{Limit,i}$ | = | 10 W/m$^2$ |
| | $P$ | = | 0.316 W (=25 dBm) (rated power: 23dBm, tolerance: +/-2dB) |
| | $G_{(\theta,\phi)}$ | = | 2.51 (= 4 dBi) (Integrated antenna) |
| | $EIRP = P \times G_{(\theta,\phi)}$ | = | 0.79316 W |
| | $\theta, \phi$ | = | The worst condition is considered, i.e. the max $G$ is used. |
| | $R$ | ≥ | 0.25 m |
| | $S_i$ | ≤ | $\frac{P \times G_{(\theta,\phi)}}{4 \times \pi \times R^2}$ = 1.01 W/m$^2$ |
| | $\frac{S_i}{S_{Limit,i}}$ | ≤ | 0.101 |

| RF Source | Calculation | | |
|---|---|---|---|
| RF Source #1 | $f$ | = | 1930 to 1990 MHz |
| | $S_{Limit,i}$ | = | 10 W/m$^2$ |
| | $P$ | = | 0.316 W (=25 dBm) (rated power: 23dBm, tolerance: +/-2dB) |
| | $G_{(\theta,\phi)}$ | = | 11.22 (= 10.5 dBi) (External antenna) |
| | $EIRP = P \times G_{(\theta,\phi)}$ | = | 3.54552 W |
| | $\theta, \phi$ | = | The worst condition is considered, i.e. the max $G$ is used. |
| | $R$ | ≥ | 0.25 m |
| | $S_i$ | ≤ | $\frac{P \times G_{(\theta,\phi)}}{4 \times \pi \times R^2}$ = 4.51 W/m$^2$ |
| | $\frac{S_i}{S_{Limit,i}}$ | ≤ | 0.451 |

Integrated antenna:

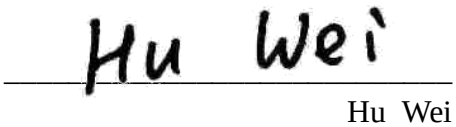
| | | | |
|---|---|---|---|
| PCS Band | $\sum_i \frac{S_i}{S_{Limit,i}}$ | ≤ | 0.101 (Less than 1, so complied) |

External antenna:

| | | | |
|---|---|---|---|
| PCS Band | $\sum_i \frac{S_i}{S_{Limit,i}}$ | ≤ | 0.451 (Less than 1, so complied) |

Calculated safe distance: 0.25 m

Person responsible for making this declaration:



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