Declaration of Electromagnetic Field Health Compliance

To whom it may concern,

As to the product **HUAWEI TE40&TE50** 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 (10-1-12 Edition) & OET Bulletin 65
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.

θ, ϕ = 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.

RF Source	Calculation		
RF Source #1	f	=	2400 to 2483.5 MHz
	$S_{Limit,i}$	=	10 W/m^2
	P	=	0.056 W (= 17.48 dBm, peak value, measured max)

RF Source	Calculation
	$G_{(\theta,\phi)}$ = 2 (= 3 dBi) $EIRP = P \times G_{(\theta,\phi)}$ = 0.112W θ, ϕ = The worst condition is considered, i.e. the max G is used. R ≥ 0.2 m S_i ≤ $\frac{P \times G_{(\theta,\phi)}}{4 \times \pi \times R^2}$ = 0.22 W/m^2 $\frac{S_i}{S_{Limit,i}}$ ≤ 0.022
RF Source(s) Combination	$\sum_i \frac{S_i}{S_{Limit,i}}$ ≤ 0.022 (Less than 1, so complied)

Person responsible for making this declaration:

Zhang Weimin
RF Engineer, EMC Lab
Reliability Laboratory of Huawei Technologies Co., Ltd.
November 14, 2013