Declaration of Electromagnetic Field Health Compliance

To whom it may concern,

As to the product **RU3261** 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 & OET Bulletin 65

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:

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

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.

BRS&EBS Band:

RF Source	Calculation for Individual Source		
RF Source #1	f	=	2620 to 2690 MHz

$S_{Limit,i}$	=	<u>10</u> W/m^2

P , $G_{(\theta,\phi)}$	=	☐ $EIRP$ $(= P \times G_{(\theta,\phi)})$:
		
		$EIRP^{(*)}$ = _____ W (=_____ dBm, all ports)
		
		☒ $P \times G_{(\theta,\phi)}$:
		
		$P^{(*)}$ = <u>134.59</u> W (=<u>51.29</u> dBm) (all ports, total rated power: 50.79dBm, tolerance: +/-0.5dB)
		_____ W (calculated, all ports)
		
		$G_{(\theta,\phi)}$ = <u>70.307</u> (=<u>18.47</u> dBi)
		
		_____
		$^{(*)}$: The value is from:
		    ☐ measured max (See relevant RF report),
		    ☒ rated + declared tolerance,
		    ☐ max allowed by RF standard.
		And, the transmission duty cycle is:
		    ☐ ignored,
		    ☒ used, that is: <u>100</u> %.

θ, ϕ	=	The worst condition is considered, i.e. the max G is used.
S_i	=	$\dfrac{P \times G_{(\theta,\phi)}}{4 \times \pi} / R^2$ = <u>753.01</u> / R^2 W/m^2
$\dfrac{S_i}{S_{Limit,i}}$	=	<u>75.3</u>/ R^2

Whole Product	Calculation for Whole Product	
Whole Product	$\sum_i \dfrac{S_i}{S_{Limit,i}}$ =	<u>53.68</u> / $R^2 \le 1$
	R ≥	<u>8.68</u> m (the minimum Safe Distance)
	NOTE:	The result is the worst case of each individual source and simultaneous transmission sources (if applicable).

Note: If the practical maximum antenna gain exceeds the value as described above, the safe distance must be recalculated and estimated.
<u>Beyond the specified distance: 8.68 m</u>

Person responsible for making this declaration:

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July 31, 2015