



FCC ID: XCO-BT8645

**Statement of compliance to
Maximum Permissible Exposure (MPE)
No. 160602869SHA-002**

Applicant : Hansong(Nanjing) Technology Ltd

8th Kangping Road, Jiangning Economy&Technology
Development Zone, Nanjing, 211106, China

Manufacturer : Hansong(Nanjing) Technology Ltd

8th Kangping Road, Jiangning Economy&Technology
Development Zone, Nanjing, 211106, China

Product Name : Power Amplifier

Type/Model : POWER GATE

According to §2.1091, §2.1093 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Date of issue: September 6, 2016

Prepared by:

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Reviewed by:

Daniel Zhao (*Reviewer*)

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Frequency band	Power		Antenna Gain		R	S	Limits
(MHz)	dBm	mW	dBi	(Numeric)	(cm)	(mW/cm ²)	(mW/cm ²)
2402 - 2480	8.983	7.91	2.0	1.58	20	0.002	1
2412 - 2462	24.66	292.42	3.0	2.00	20	0.099	1
5150 - 5250	13.23	21.04	2.7	1.86	20	0.008	1
5250 - 5350	13.50	22.39	2.7	1.86	20	0.008	1
5470 - 5725	13.31	21.43	2.7	1.86	20	0.008	1
5725 - 5850	13.73	23.60	2.7	1.86	20	0.009	1

Note: 1 mW/cm² from 1.310 Table 1

For the device consider simultaneous transmission of WIFI and BT,

The worst MPE = 0.002 + 0.099 = 0.101 mW/cm² < 1 mW/cm².



Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of **20** cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.