



KSIGN (Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park,
Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China
Tel.: + (86)755-29852678 Fax: + (86)755-29852397 E-mail: info@gdksign.cn Website: www.gdksign.com

Maximum Permissible Exposure Evaluation

FCC ID: 2ATFB-PF1360

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

EUT Specification

EUT	360Anywhere
Frequency band (Operating)	☒ WLAN: 2.412GHz ~ 2.462GHz ☐ WCDMA Band II, Band IV, Band V ☐ LTE FDD Band 2, Band 4, Band 5, Band 12 ☒ Others
Device category	☐ Portable (<20cm separation) ☐ Mobile (>20cm separation) ☒ Fixed (>20cm separation) ☐ Others
Exposure classification	☐ Occupational/Controlled exposure ($S=5\text{mW/cm}^2$) ☒ General Population/Uncontrolled exposure ($S=1\text{mW/cm}^2$)
Antenna diversity	☐ Single antenna ☒ Internal antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power(2.4GHz WIFI)	802.11b: 10.49dBm
Max. output power(5GHz WIFI)	802.11a: 8.00dBm
Antenna gain (Max)	1.5dBi
Evaluation applied	☒ MPE Evaluation ☐ SAR Evaluation

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

 P_d = Power density in mW/cm²
 P_{out} = output power to antenna in mW

 G = gain of antenna in linear scale

 π = 3.1416

 R = distance between observation point and center of the radiator in cm

 P_d the limit of MPE 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

2.4GHz WIFI

Operating Mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm ²)
802.11b	CH01	10.49	10.49±1	11.49	1.5	0.0040	1
802.11g	CH01	9.71	9.71±1	10.71	1.5	0.0033	1
802.11n (HT20)	CH01	9.93	9.93±1	10.93	1.5	0.0035	1

5GHz WIFI

Operating Mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm ²)
802.11a	CH149	5.90	5.90±1	6.90	1.5	0.0014	1
	CH157	7.01	7.01±1	8.01	1.5	0.0018	1
	CH165	8.00	8.00±1	9.00	1.5	0.0022	1

Note

For a more detailed features description, please refer to the RF Test Report.

***** THE END *****