



FCC RF Exposure

Report No.: FCS2022502013

EUT Description:Smart Cloud-based Hybrid Biometric Intelligent Time Attendance and Access

Control Terminal ModelNo.:W2 Face Series Model:N/A FCC ID:2BKHH-W2

Equipment type: Mobile Device equipment

Test procedures according to the technical standards: KDB 447498 D01 V06 and FCC 2.1091.

## 1. Limits

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)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
	(A) Limit	ts for Occupational/Controlled E	xposures	
0.3-3.0	614	1.63 *(100)		6
3.0–30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500-100,000			5	6
	(B) Limits fo	r General Population/Uncontroll	ed Exposure	
0.3-1.34	614 1.63 *(100		*(100)	30
1.34–30	824/f	2.19/f *(180/f <sup>2</sup> )		30
30–300	27.5	0.073 0.2		30
300–1500			f/1500	30
1500-100,000			1.0	30

F = frequency in MHz

Formula: Pd = (Pout\*G)/(4\*  $\pi$  \*r<sup>2</sup>)

Where:

Pd = power density in mW/cm<sup>2</sup>,

Pout = output power to antenna in mW;

G = gain of antenna in linear scale,

 $\pi = 3.14$ ;

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

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



2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

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## 3. Test Result of RF Exposure Evaluation WIFI

		Conduct	Max		Antenna	Evaluation	Power
Modulation	Channel Freq. (MHz)	ed power (dBm)	tune-up power	Antenna Gain (dBi)	gain numeric	result	density
						(mW/cm2)	Limits
	, ,		(mW)				(mW/cm2)
802.11b	2412	17.93	62.08690	3.3	2.138	0.026421537	1
	2437	16.56	45.28975	3.3	2.138	0.019273388	1
	2462	17.46	55.71857	3.3	2.138	0.023711448	1
802.11g	2412	16.55	45.18559	3.3	2.138	0.019229061	1
	2437	16.51	44.77133	3.3	2.138	0.019052768	1
	2462	16.40	43.65158	3.3	2.138	0.018576251	1
802.11n	2412	15.31	33.96252	3.3	2.138	0.014453002	1
	2437	15.28	33.72873	3.3	2.138	0.014353508	1
	2462	15.21	33.18944	3.3	2.138	0.014124012	1

Wifi: Conclusion: the max result 0.026421537: ≤ 1.0 compliance with FCC's RF Exposure.

WIFI:0.026421537+NFC:0.004/925=0.0264678

Conclusion: No SAR is required