



Report No.: FCS202410433

FCC RF Exposure

EUT Description:camera ModelNo.:HX-G0008F-S2

Series Model: HX-K0004A-S7,HX-D001A-S1, HX-G0008G-S2,HX-H0008E-S2,HX-C1006A-S2, HX-B3011A-S2,HX-H0008G-S2,HX-A1508E-S2, HX-A1536B-S2,HX-A1516D-S2,HX-N0008B-S11

FCC ID: 2BEFB-HX-G0008F-S2

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/cm²)	Averaging time (minutes)
,	(A) Limi	ts for Occupational/Controlled E	xposures	1
0.3-3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	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	led Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	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 = $(Pout*G)/(4*\pi*r^2)$

Where:

Pd = power density in mW/cm²,

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.

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2. Test Procedure

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

3. Test Result of RF Exposure Evaluation

Modulation	Channel Freq. (MHz)	Conduct ed power (dBm)	Max tune-up power (mW)	Antenna Gain (dBi)	Antenna gain numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
802.11b	2412	17.02	50.35	1.66	1.465	0.014682076	1
	2437	16.97	49.77	1.66	1.465	0.014512948	1
	2462	16.87	48.64	1.66	1.465	0.014183439	1
802.11g	2412	16.91	49.10	1.66	1.465	0.014317576	1
	2437	16.65	46.23	1.66	1.465	0.013480683	1
	2462	16.74	47.21	1.66	1.465	0.013766451	1
802.11n	2412	16.84	48.31	1.66	1.465	0.014087211	1
	2437	16.66	46.34	1.66	1.465	0.013512759	1
	2462	16.77	47.53	1.66	1.465	0.013859763	1

Wifi: Conclusion: the max result : 0.014682076≤ 1.0 compliance with FCC's RF Exposure.

Conclusion: No SAR is required