



FCC RF Exposure

EUT Description: Smart Projector

ModelNo.:HY320mini,HY320,H320,X1,X2,X3,X4,X5,X6,X7

FCC ID: 2BF3V-HY320MINI

Equipment type: mobile device

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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	
1	(A) Limit	s 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	
L. L	(B) Limits fo	r General Population/Uncontrol	led Exposure	,	
0.3-1.34	614	1.63	*(100)	0) 30	
1.34–30	824/f	2.19/f	*(180/f ²)	30	
30300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

Limits for Maximum Permissible Exposure (MPE)

F = frequency in MHz

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

Where :

 $Pd = power density in mW/cm^2$,

Pout = output power to antenna in mW;

G = gain of antenna in linear scale,

 π = 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.



3. Test Result of RF Exposure Evaluation

WIFI

	Output power (dBm/ mW)	Antenna Gain(dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm²)	Result
U-NII 1 802.11a	5.63/3.66	4.18	0.00191	1.0	Pass
U-NII 1 802.11n(HT20)	6.92/4.92	4.18	0.00257	1.0	Pass
U-NII 1 802.11n(HT40)	6.54/4.51	4.18	0.00235	1.0	Pass
U-NII 1 802.11ac(HT20)	6.16/4.13	4.18	0.00215	1.0	Pass
U-NII 1 802.11ac(HT40)	6.49/4.46	4.18	0.00233	1.0	Pass
U-NII 1 802.11ac(HT80)	6.12/4.09	4.18	0.00213	1.0	Pass
U-NII 3 802.11a	4.16/2.61	4.18	0.00136	1.0	Pass
U-NII 3 802.11n(HT20)	4.09/2.56	4.18	0.00134	1.0	Pass
U-NII 3 802.11n(HT40)	3.24/2.11	4.18	0.00110	1.0	Pass
U-NII 3 802.11ac(HT20)	4.06/2.55	4.18	0.00133	1.0	Pass
U-NII 3 802.11ac(HT40)	3.30/2.14	4.18	0.00112	1.0	Pass
U-NII 3 802.11ac(HT80)	4.51/2.82	4.18	0.00235	1.0	Pass
802.11b	19.69/93.11	1.73	0.02761	1.0	Pass
802.11g	14.58/28.71	1.73	0.00851	1.0	Pass
802.11n20	15.58/36.14	1.73	0.01072	1.0	Pass

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	Output	Max	Antenna	Power	Limit	Result
	power(dBm)	tune-up(mW)	Gain(dBi)	Density	(mW/cm²)	
				at R=20cm		
				(mW/cm²)		
2402	1.02	1.26	1.73	0.00037	1.0	Pass
2441	0.83	1.21	1.73	0.00036	1.0	Pass
2480	1.02	1.26	1.73	0.00037	1.0	Pass

Note:2.4G / 5G cannot work at the same time and do not support the same development. BT / WIFI cannot work at the same time and do not support the same development.

Conclusion: No SAR is required