# FCC RF Exposure

EUT Description: MK770

Model No.: MK-770-MCKR1-US FCC ID: 2AR8X-MK770MCKR1US

#### 1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1 - g and 10 - g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$ 50 mm are determined by: [(max power of channel, including tune - up tolerance, mW)/(min. test separation distance, mm)] •[  $\sqrt{f(GHz)} \leq 3.0$  for 1 - g SAR and  $\leq 7.5$  for 10 - g extremity SAR,

Where:

Result=P/D\* √ F

F= the RF channel transmit frequency in GHz

P=Maximum turn - up power in mw

D=Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

#### BLE:

Frequency	Output	Tune Up	Max	Min test	Result	Limit	SAR Test
(MHz)	power	Power	Tune Up	separati		(mW/cm <sup>2</sup> )	Exclusion
	(dBm)	(dBm)	power	on			
			dBm/mW	distance			
				mm			
2402	4.94	4±1	5/3.162	5	0.980	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report HK2306192570-1E, antenna gain= 1.82dBi

## EDR:

Frequency	Output	Tune Up	Max	Min test	Result	Limit	SAR Test
(MHz)	power	Power	Tune Up	separati		(mW/cm <sup>2</sup> )	Exclusion
	(dBm)	(dBm)	power	on			
			dBm/mW	distance			
				mm			
2402	2.24	2±1	3/1.995	5	0.618	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2306192570-2E**, antenna gain= 1.82dBi

2.4G: EIRP (dBm)=101.33(dBuV/m)-95.2=6.13(dBm)

Frequency	Output	Tune Up	Max Tune Up	Min test	Result	Limit	SAR Test
(MHz)	power	Power	power	separatio		(mW/cm <sup>2</sup> )	Exclusion
(**************************************	(dBm)	(dBm)	dBm/mW	n distance		(**************************************	
	(3.2)	(5.2)	,	mm			
				111111			
2477	6.13	6±1	7/5.012	5	1.578	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2306192570-3E**, antenna gain= 1.82dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 1.578 which is<= 3, RF Exposure testing is not required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f_{(GHz)}}]$ 

 $f_{\text{(GHz)}}$  is the RF channel transmit frequency in GHz

Distance=5mm