## FCC RF Exposure

**EUT Description:LED LIGHT** 

Test type.:P320

Series model:P160 BI,P160 D,P160 RGB,P230 D, P230 BI,P230 RGB,P320D, P320 BI,P320 RGB,P160,P230, X160 BI,X160 D,X160 RGB,X230 D, X230 BI,X230 RGB,

X320D, X320 BI,X320 RGB,X160,X230,X320,

FCC ID: 2A5SB-P320

Equipment type: Portable Device

## 1. Test Procedure

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)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq$  3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR,

## where

f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

## 2. Test Result of RF Exposure Evaluation

BT

Mode	Channel Freq. (MHz)	Maximum Conducted Output Power(PK) (dBm)	(dBi)	Antenna gain numeric	Max power (W)
GFSK	2402	-5.11	-0.499	0.891	0.00030831
	2440	-5.24	-0.499	0.891	0.00029922
	2480	-6.29	-0.499	0.891	0.00023496

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)]  $\cdot [\sqrt{f(GHz)}]=0.30831/5*\sqrt{2.402}=0.094177\leq3.0$  Threshold at which no SAR required is and  $\leq 3.0$  for 1-g SAR, Separation distance is 5mm.

Conclusion: No SAR required