

# FCC RF Exposure

EUT Description: Zen Pro MAX Controller

Model No.: ZPMAX

FCC ID: **2BLDS-ZPMAX**

## 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:  $[(\text{max power of channel, including tune - up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1 - g SAR and  $\leq 7.5$  for 10 - g extremity SAR,

Where:

$$\text{Result} = P/D \cdot \sqrt{F}$$

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

	Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power (dBm/mW)	Min test separation distance (mm)	Result	Limit	SAR Test Exclusion
BLE	2440	-0.73	-1 ± 1	0/1.000	5	0.312	3.0	Pass
EDR	2441	2.16	2 ± 1	3/1.995	5	0.623	3.0	Pass

Note:  
PK Output power= conducted power.  
Conducted power see the test report **HK2409255614-1E/2E**, antenna gain= -0.61dB  
BLE and EDR cannot be transmitted at the same time.

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 0.623 which is  $\leq 3$ , RF Exposure testing is not required.

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

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

Distance=5mm