RF Exposure evaluation FCC ID: ZUK-KB812M

According to 447498 D01 General RF Exposure Guidance v05 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  5 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  $\ensuremath{\mathtt{mW}}$  and  $\ensuremath{\mathtt{mM}}$  before calculation

The result is rounded to one decimal place for comparison

eirp = pt x gt =  $(EXd)^2/30$ where: pt = transmitter output power in watts, gt = numeric gain of the transmitting antenna (unitless), E = electric field strength in V/m, ---  $10^{((dBuV/m)/20)}/10^6$ d = measurement distance in meters (m)---3m Sopt =  $(EXd)^2/30$  x gt

Field strength =97.75dBuV/m @3m Ant gain =1.76dBi;so Ant numeric gain=1.5

So pt={  $[10^{(97.75/20)}/10^6 \text{ x3}]^2/30$ }x1000 mW =1.79mW So  $(1.79\text{mW}/5\text{mm})x \sqrt{2.448}\text{GHz} =0.56<3$ 

Then SAR evaluation is not required