**RF** Exposure evaluation

Product Description: Wireless Headset Model Number: RU13 FCC ID: 2APN8-RU13

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  $\leq$  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

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According to the follow transmitter output power (Pt) formula:
Pt= (E x d) 2/ (30 x gt)
Pt=transmitter output power in watts
gt=numeric gain of the transmitting antenna (unitess)
E=electric field strength in V/m
d=measurement distance in meters (m)
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According to the formula described above:

Emax=<u>95.22</u>dBuv/m=<u>0.058</u>V/m, d=3m, gt=1

 $P_{t}$ = ( E x d ) <sup>2</sup>/ ( 30 x g<sub>t</sub> ) =(0.058x3)<sup>2</sup>/ (30x1)=0.0010092W=1.01mW

The result is rounded to one decimal place for comparison Worse case is as below: [2402MHz - 1.01mW output power] $(1.01mW / 5mm)^*[\sqrt{2.402(GHz)}] = 0.31 < 3.0$  for 1 - g SAR Then SAR evaluation is not required

**NOTE:** For the maximum power, you can refer FCC test report.