## RF EXPOSURE EVALUATION

## 1. PRODUCT INFORMATION

Product Description	Babyhawk-85mm Brushless Drone
Model Number	Babyhawk
FCC ID	2AL7Y-BABYHAWK

## 2. EVALUATION METHOD

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 ≤ 50 mm are determined by:

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

## 3. CALCULATION

According to the follow transmitter output power (Pt) formula:

 $P_t = (E \times d)^2 / (30 \times g_t)$ 

P<sub>t</sub>=transmitter output power in watts

g<sub>t</sub>=numeric gain of the transmitting antenna (unitess)

E=electric field strength in V/m

d=measurement distance in meters (m)

According to the report AGC00056170301FE03,  $E_{max}$ =90.53dBuv/m=0.0336V/m, d=3m, $g_t$ =1.59  $P_t$ = ( E x d ) <sup>2</sup>/ ( 30 x  $g_t$  ) =0.213mW

The result for RF exposure evaluation SAR= $(0.213 \text{mW} /5 \text{mm}) . [\sqrt{0.0001198} (\text{GHz})] = 0.000466 < 3.0 for 1-g SAR$ 

# 4. CONCLUSION

The SAR evaluation is not required.