FCC RF Exposure

Product Name: Quadcopter
FCC ID: 2BAIV-TX-50
Model(s): TX-50

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 ≤50 mm are determined by: [(max power of channel, including tune‐up tolerance, Mw)/(min. test separation distance, mm)] •[√ f(GHz)]≤3.0 for 1‐g SAR and ≤ 7.5 for 10‐g extremity SAR,

Where:

Result=P/D* √ 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

2.4g tx: EIRP(dBm)= 95.51 (dBuV/m)-95.2=0.31(dBm)

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/Mw	Min test separation distance mm	Result	Limit (Mw/cm^2)	SAR Test Exclusion
BLE: 2480	6.85	6±1	7/5.01	5	1.5780	3.0	Pass
EDR: 2480	6.96	6±1	7/5.01	5	1.5780	3.0	Pass
2.4g tx: 2480	0.31	0±1	1/1.26	5	0.3969	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report **HK2410226207**-1E/2E/3E,antenna gain=0dBi(BT), 4.5dBi(2.4G TX) . 2.4G TX (max)= 0.3969 (mW/cm^2) BT (max)= 1.5780 (mW/cm^2) simultaneously MPE=0.3969+1.5780=1.9749(mW/cm^2)							

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 1.9749 which is<= 3, RF Exposure testing is not required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [√ f(GHz)]

f(GHz) is the RF channel transmit frequency in GHz

Distance=5mm