

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Four-axis Aircraft
Model Name	668-Q1, H1, H2, H3, X1, D10, X12, X8, X13, D11, D12, D58, D52, 668-Q2, 668-Q3, 668-Q4, 668-Q5, 668-Q6, 668-Q7, 668-Q8, 668-Q9, 668-Q10, 668-Q11, 668-Q12, 668-A1, 668-A2, 668-A3, 668-A4, 668-A5, 668-A6, 668-A7, 668-A8, 668-A9, 668-A10, 668-A11, 668-A12, 668-X1, 668-X2, 668-X3, 668-X4, 668-X5, 668-X6, 668-X7, 668-X8, 668-X9, 668-X10, 668-X11, 668-X12, 668-R1, 668-R2, 668-R3, 668-R4, 668-R5, 668-R6, 668-R7, 668-R8, 668-R9, 668-R10, 668-R11, 668-R12, 668-H1, 668-H2, 668-H3, 668-H4, 668-H5, 668-H6, 668-H7, 668-H8, 668-H9, 668-H10, 668-H11, 668-H12
FCC ID	2AHTI668-Q1

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:

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

Where $f(\text{GHz})$ 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 (P_t) formula :

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

P_t =transmitter output power in watts

g_t =numeric gain of the transmitting antenna (unitless)

E =electric field strength in V/m

d =measurement distance in meters (m)

$$P_t = -13.04 \text{ dBm} = 0.050 \text{ mW}$$

The result for RF exposure evaluation

$$\text{SAR} = (0.050 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.48(\text{GHz})}] = 0.016 < 3.0 \text{ for 1-g SAR}$$

4. CONCLUSION

The SAR evaluation is not required.