

FCC power thresholds:

f_{GHz}	375/f body-worn controlled d < 2.5 cm	900/f Face-held controlled d >= 2.5 cm
0.1563	2399mW	5758mW
0.15	2500mW	6000mW

1. 375/f = body-worn controlled, source-based time-averaged output
2. d is the distance to a person's body.

No evaluation required if power is below this threshold:

f_{GHz}	P_{out}
0.1563	33.8dBm

Antenna Info

ICOM helical antennal (M/N: FA-S61V, 150 ~ 174 MHz, Gain: -4.67dBi)

Maximum measured average transmitter power:

P_{peak} (HP 436A + HP 8481A Power Sensor)	33.3 dBm
$\text{Duty_Cycle}_{\text{measured}}$	50% = -3dB (PTT-device)
$P_{\text{avg_calculated}} (P_{\text{peak}} \times \text{Duty_Cycle}_{\text{measured}})$	33.3 dBm – 3dB = 30.3 dBm

Threshold for no SAR evaluation is 33.8dBm

Transmitter power is 30.3dBm

Conclusion: No SAR evaluation required since Transmitter P_{out} is below FCC power thresholds