

SAR Exclusion for Long Range Systems TX-7400A

The device is to be operated in a stationary table top configuration and not held or carried while in operation. Device operates with 50% source-based time averaging.

Per FCC KDB 447498, the device is exempt from SAR evaluation testing as it meets the exclusion in section 4.3.1 at a separation distance of 5mm from extremities. The calculation is as follows:

$$\frac{\text{Power (mW)}}{\text{Distance (mm)}} * \sqrt{\text{Frequency (GHz)}} \text{ must be } \leq 7.5 \text{ for 10g extremity (hand) SAR exemption}$$

Power: 105mW * 50% = 52.5mW

Distance: 5mm

Frequency: 467.75MHz

$$(52.5/5) * \sqrt{0.468} = 7.18 < 7.5$$