
RF exposure

According to 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})]$$

$$\cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}$$

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

The result is rounded to one decimal place for comparison

$$\text{EIRP} = \text{Field strength} + 20\log(D) - 104.8$$

Results

Frequency (MHz)	Distance (mm)	Field strength (dBuV/m)	EIRP (dBm)		Calculation value	Exclusion Threshold
			(dBm)	(mW)		
2 410	5	90.73	-4.53	0.35	0.11	≤ 3.0
2 435	5	92.34	-2.92	0.51	0.16	≤ 3.0
2 465	5	92.90	-2.36	0.58	0.18	≤ 3.0