

According to Appendix B of 447498 D04 Interim General RF Exposure Guidance v01, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula.

P_{th} is given by:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

The separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz.

P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distances (cm).

$$88.33 \text{ dBuV/m} @ 3 \text{ m} = -6.93 \text{ dBm (EIRP)}$$

$$-6.93 \text{ dBm (EIRP)} - (-14 \text{ dBi}) = 7.07 \text{ dBm}$$

The Max. tune-up power is 7.5 dBm

0.3GHz ≤ f < 1.5GHz							
Frequency (GHz)	Output Power		Antenna Gain (dBi)	ERP (dBm)	ERP Threshold (mW)	Distances (cm)	P_{th} (mW)
	dBm	mW					Exemption result
0.902	7.50	6	-14	-8.65	0.14	0.5	8

Note:

1. The tune up power referred the AVG power of the test report **TMTN2508000922NR** for SAR test exclusion purpose.