

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).

Max. Tune-up Power: 11 dBm

Antenna Gain: -3.07 dBi

The maximum power duty cycle was measured to be 8.24% as detailed in the EUT test report.

Thus, power (exposure) duty cycle is computed to be:

Power Duty Cycle = $10 \cdot \log_{10}(0.0824) = -10.84 \text{ dB}$

This duty cycle is the worst case source-based time-averaged duty cycle for this product.

$P_{avg} = 11 - 10.84 = 0.16 \text{ dBm}$

Frequency (GHz)	Output Power		Antenna Gain (dBi)	ERP (dBm)	ERP Threshold (mW)	Separation Distances (cm)	P_{th} (mW)	Exemption result
	dBm	mW						
0.904	0.16	1	-3.07	-5.06	0.31	0.5	8	-EXEMPT-

- Therefore, separate SAR testing is not required for SAR exemption evaluation.

Note:

- The tune-up power refers to the average power from test report TMWK2603000991KR, used for SAR test exclusion purposes.
- The duty cycle is referenced from test report TMWK2603000991KR.