According to 447498 D04 Interim General RF Exposure Guidance v01

$$P_{\rm th} \ ({\rm mW}) = ERP_{\rm 20 \ cm} \ ({\rm mW}) = \begin{cases} 2040f & 0.3 \ {\rm GHz} \le f < 1.5 \ {\rm GHz} \\ \\ 3060 & 1.5 \ {\rm GHz} \le f \le 6 \ {\rm GHz} \end{cases} \eqno(B.1)$$

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

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

and f is in GHz, d is the separation distance (cm), and  $ERP_{20cm}$  is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
Frequency (MHz)		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

```
eirp = pt x gt = (EXd)^2/30
```

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, ---  $10^{((dBuV/m)/20)}/10^6$ 

d = measurement distance in meters (m) ---3m

Sopt =  $(EXd)^2/30 \times gt$ 

Ant gain = 0 dBi [-2.15 dBd(0.6095)]

Field strength =  $78.64 \text{ dB}\mu\text{V/m}$  @3m @2440MHz

So Pt={  $[10^{(78.64/20)}/10^6 \times 3]^2/30$ } $\times 1000 \text{ mW} = 0.022 \text{mW} < 2.7657 \text{mW}$ 

So ERP= 0.022x0.6095= 0.013<2.7657mW

Then SAR evaluation is not required