According to 447498 D04 Interim General RF Exposure Guidance v01

 $P_{\text{th}}(\text{mW}) = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^{\chi} & d \le 20 \text{ cm} \end{cases}$ 

ERP20 cm

(B.2) 20 cm <  $d \le 40$  cm

where

 $x = -\log_{10}\left(\frac{\epsilon_0}{\epsilon_{RP_{20}} cm\sqrt{f}}\right)$ 

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

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

Table B.2-Example Power Thresholds (mW)

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
Frequency (MHz)	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	2.5	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 x gt
```

```
Ant gain =2.34dBi so Ant numeric gain= 1.714
Ant gain =0.19dBd so Ant numeric gain= 1.04
Field strength =92.62dBµV/m @3m@2402MHz
So Pt={ [10<sup>(92.62/20)</sup>/10<sup>6</sup> x3]<sup>2</sup>/ (30x1.714) }x1000 mW=0.32mW
ERP=0.32x1.04=0.33mW
<2.72 mW
```

Then SAR evaluation is not required