(B.2)

According to 447498 D04 Interim General RF Exposure Guidance v01

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

ERP20 cm

 $20 \text{ cm} < d \leq 40 \text{ cm}$

where

 $x = -\log_{10}\left(\frac{\epsilon o}{\epsilon R \rho_{be} cm \sqrt{f}}\right)$

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.

$$P_{\rm th} (\rm mW) = ERP_{20 \,\rm cm} (\rm mW) = \begin{cases} 2040f & 0.3 \,\rm GHz \le f < 1.5 \,\rm GHz \\ \\ 3060 & 1.5 \,\rm GHz \le f \le 6 \,\rm GHz \end{cases}$$
(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 | 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 =2.34dBi so Ant numeric gain= 1.714

Field strength =79.75dB μ V/m @3m@2403MHz

So $Pt=\{ [10^{(79.75/20)}/10^6 \times 3]^2/(30\times 1.714) \} \times 1000$ mW =0.017mW <2.72 mW Then SAR evaluation is not required