(B.2)

According to 447498 D04 Interim General RF Exposure Guidance v01

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

where

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

 $P_{\rm th} \ ({\rm mW}) = ERP_{20\ \rm cm} \ ({\rm mW}) = \begin{cases} 2040f & 0.3\ {\rm GHz} \leq f < 1.5\ {\rm GHz} \\ \\ 3060 & 1.5\ {\rm GHz} \leq f \leq 6\ {\rm GHz} \end{cases}$ (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 =0dBi so Ant numeric gain= 1

Field strength =82.06dBµV/m @3m@315MHz

So Pt={ $[10^{(82.06/20)}/10^6 \text{ x3}]^2/(30\text{x1})$ }x1000 mW = 0.048mW <36.3158 mW

Then SAR evaluation is not required