RF Exposure evaluation

According to 447498 D04 Interim General RF Exposure Guidance v01

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

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

where

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

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)

Frequency (MHz)	Distance (mm)										
	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

Frequency(MHz)	Field Strength (dBuv/m)	erp(mW)	limit (mW)	min. distance (cm)
2441	86.93	0.09	2.75	0.05

According toANSI C63.10

Where:

EIRP (dBm)=E(dBuv/m)-95.2

ERP = EIRP-2.15dB

E =Field Strength (dBuv/m)

So ERP=86.93 -95.2-2.15=-10.42dBm

Then SAR evaluation is not required