RF Exposure evaluation

According to 447498 1 D01 v05r02, 4.1.3 General RF Exposure Guidance v05
The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Worse case is as below: [2402MHz 1dBm(1.259mW) output power]
Worse case is as below: [2442MHz 0dBm(1.000mW) output power]
Worse case is as below: [2480MHz 0dBm(1.000mW) output power]

(1.259/50)·[√2.402(GHz)]=0.039<3.0 for 1-g SAR
(1.000/50)·[√2.442(GHz)]=0.031<3.0 for 1-g SAR
(1.000/50)·[√2.480(GHz)]=0.032<3.0 for 1-g SAR

Then SAR evaluation is not required.

Channel	Frequency (MHz)	Measured Output Peak Power(dBm)	Tune-up Power Range(dBm)	Max. Tune-up power(dBm)	Distance (mm)	RF Exposure	Limit
0	2402	0.35	0±1	1	50	0.039	3
20	2442	-0.51	-1±1	0	50	0.031	3
39	2480	-1.69	-1±1	0	50	0.032	3