Appendix 5 RF Exposure Information Model: 3971

Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Output power(mW)
2402	-1.37	0.729
2440	-1.83	0.656
2480	-1.86	0.652

FCC

According to KDB 447498 D01:

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)] $\cdot [\sqrt{f_{(GHz)}}] \leq 3.0$

for 1-g SAR and \leq 7.5 for 10-g extremity SAR,24 where • f_(GHz) is the RF channel transmit frequency in GHz

• Power and distance are rounded to the nearest mW and mm before calculation25

• The result is rounded to one decimal place for comparison

• 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

Result:

(0.729/5)*√2.402 = 0.226 <3.0

(0.656/5)*√2.440 = 0.205 < 3.0

(0.652/5)*√2.480 = 0.205 < 3.0

Conclusion:

No SAR is required.

<u>ISED</u>

According to table 1 in RSS-102 Issue 5, below exemption limit is applied:

- Frequency: 2450MHz
- At separation distance of ≤ 5 mm
- Exemption limits: 4mW

Conclusion:

The maximum peak output power of the transmitter is less than the SAR evaluation exemption threshold and hence it complies with the RSS-102 RF exposure requirement without SAR evaluation..