Appendix 5 RF Exposure Information

Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Output power (mW)
2410	-1.9	0.641
2445	-2.1	0.613
2473	-2.4	0.572

For 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)] · [$\sqrt{f}(GHz)$] ≤3.0 for 1-g SAR and ≤7.5 for 10-g extremity SAR, 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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

Result:

(0.641/5)*√2.410 = 0.199 <3.0

(0.613/5)*√2.445 = 0.192 <3.0

(0.572/5)*√2.473 = 0.192 < 3.0

Conclusion:

No SAR is required.

For ISED

According to table 1 in RSS-102 Issue 5, below exemption limit is applied Frequency: 2450MHz At separation distance of ≤ 5mm Exemption limits: 4mW

Results:

max. power of channel = 0.641mW < 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