Appendix 5

RF Exposure Information

FCC ID: 2AXEQ-CORE8PLUS
IC ID: 28025-CORE8PLUS

Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Output power(mW)
2402	-9.65	0.108
2442	-9.58	0.110
2480	-9.80	0.104

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:

$[(max.\ power\ of\ channel,\ including\ tune\text{-}up\ tolerance,\ mW)/(min.\ test\ separation\ distance,\ mm)] \cdot [\sqrt{f_{(GHz)}}] \leq 3.0$

for 1-g SAR and ≤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 calculation[25]
- 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:

(0.108/5)*√2.402 = 0.03 <3.0

(0.110/5)*√2.442 = 0.03 <3.0

(0.104/5)*√2.480 = 0.03 <3.0

Conclusion:

No SAR is required.

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

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..