Appendix 5 RF Exposure Information

FCC ID: NDX-EARTAG/ IC: 8521A-9860000369

Maximum transmitting power:

Frequency (MHz)	Maximum peak output power	Average output power	Average Output power	Separation distance (mm)
(IVII IZ)	(dBuV/m)	(dBuV/m)	(mW)	(111111)
2402	107.0	60.8	0.00036	5
2440	106.0	60.2	0.00031	5
2476	105.4	59.4	0.00026	5

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:

[(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, 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:

 $(0.00036/5)*\sqrt{2.402} = 0.0001<3.0$

 $(0.00031/5)*\sqrt{2.440} = 0.0001<3.0$

 $(0.00026/5)*\sqrt{2.476} = 0.0001<3.0$

Conclusion:

No SAR is required.

For IC

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

Frequency: 2402MHz

At separation distance of ≤ 5mm Exemption limits: 4.26mW

Results:

Average field strength at 3m of the channel = 60.8 dBuV/m = 0.00036 mW < 4.26mW

Conclusion:

The maximum average output power of the transceiver is less than the SAR evaluation exemption threshold and hence it complies with the RSS-102 RF exposure requirement