Appendix 5

RF Exposure Information

www.tuv.com

Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Output power (mW)
27.145	-36.83	0.002

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*)] · [√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:

(0.002/5)*√0.027145 = 0.0006
<3.0

Conclusion:
No SAR is required.

For ISED

According to table 1 in RSS-102 Issue 5, below exemption limit is applied
Frequency: 27.145MHz
At separation distance of ≤ 5mm
Exemption limits: 4mW

Results:
Max. power of channel = 0.002mW < 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.