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RF EXPOSURE CALCULATIONS

Requirement:

According to USA CFR 15 §1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. For Canada, RSS-102 sets out the requirements and measurement techniques used to evaluate radio frequency (RF) exposure compliance of radiocommunication apparatus designed to be used within the vicinity of the human body.

USA REF: 1.1310, 2.1091/1093, 447498 D01 General RF Exposure Guidance v06

IC REF: RSS-102 Issue 5, Safety Code 6

Min. Sep. Distance: 20 cm (Mobile)

Test Date: 17-Nov-23
Test Engineer: J. Brunett
EUT: G6GB3
EUT Mode: Worst Case
Meas. Distance: 3 meters

Mode	Freq. MHz	Worst Case EIRP(Avg) ^{**} dBm	E20cm(Avg) dBuV/m	S20cm(Avg) ^{****} mW/cm ²	SC6 Limit (S20cm) W/m ²	MPE Ratio		S Limit mW/cm ²	MPE Ratio
Worst Case	315.00	-41.9	76.8	0.000000	0.000000	10.00	0.000000	1.00000	0.0000000
					MPE Total (<1):	.000		MPE Total (<1):	.000

^{*}As Measured / Computed from highest fundamental emission, see fundamental emission section of the NFC report.

^{**}EIRP, as computed from Electric Field Strength at 3 meters (EIRP (dBm) = E@3m (dBuV/m) - 95.2 dB)

^{***} For FCC MPE, use of 300 kHz limit at 125 kHz as previously allowed by FCC.

^{****} EIRP (mW) = S (mW/cm²) x 4 x PI x 20cm²

Summary:

The EUT with all transmitters is compliant with both the FCC power density limit and the ISED Exposure Evaluation limits.