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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.

Maximum Permissible Exposure Calculations:

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: 11-Oct-22
 Test Engineer: John Nantz
 EUT: SCHRI BREX
 EUT Mode: Worst Case
 Meas. Distance: Conducted

R0	Mode	Freq. MHz	Worst Case EIRP(Pk/Avg)** dBm	Declared Tolerance (dB)	Worst Case EIRP w/ Tolerance dBm	E20cm(Avg) dBuV/m	S20cm(Avg)**** mW/cm2	Canada ISED RSS-102 MPE		USA FCC 1.1310 MPE		
								SC6 Limit (S20cm) W/m2		S Limit mW/cm2	MPE Ratio	
R1	BLE/BT	2402	10.9	0.2	11.1	129.8	0.00245	5.5		1.00000	0.0024475	
R2	BLE/BT	2440	10.9	0.2	11.1	129.8	0.00245	5.5		1.00000	0.0024475	
R3	BLE/BT	2480	10.9	0.2	11.1	129.8	0.00245	5.5		1.00000	0.0024475	
R4									MPE Total (<1):	0.0024475		
R5									Complies?	Yes	Complies?	Yes
#	C1	C2	C3		C4	C5	C6	C7	C8	C9	C10	C11

(ROW)

(COLUMN) NOTE

R0 C3 As Measured / Computed from highest fundamental emission, see fundamental emission section of this report. Maximum of either EIRP or Pout as measured.
 R0 C5 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.