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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: 10 mm

Test Date: 13-Jul-23
 Test Engineer: J. Nantz
 EUT: Vitesco BRFM
 EUT Mode: Active
 Meas. Distance: 3m

R0	Mode	Frequency Band		Po (Pk)		EIRP + Duty (RMS)		Canada ISED RSS-102 MPE		USA FCC 1.1310 MPE		
		Start MHz	Stop MHz	dBm	mW	dBm	mW	EIRP Limit Table 1 mW	MPE Ratio	SAR Threshold	Minimum 1g SAR Threshold Limit	MPE Ratio
R1	DTS	2405.00	2480.00	5.6	4	8.2	7	7.0	0.95	0.620	3	0.21
#	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12

(ROW) (COLUMN) NOTE:

- R1 C10 SAR Threshold = 4 mW / 10mm * sqrt(2.405 GHz) = 0.62
- R1 All TUNE UP – The manufacturer declares the product employs a fixed power setting without tune-up.
- R1 C9, C12 MPE Ratio provided for reference only, single radio product.

Summary:

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