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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: 19-Aug-23
Test Engineer: J. Nantz
EUT: Vitesco HFA30
EUT Mode: Worst Case
Meas. Distance: 3 meters

Mode	Freq. MHz	Worst Case E3(Avg)* dBuV/m	E20cm(Avg) dBuV/m	EIRP (Avg)		S20cm(Avg) mW/cm2	Canada ISSED RSS-102 MPE			USA FCC 1.1310 MPE	
				dBm	watts		S Limit (S20cm)	EIRP Limit > 6 GHz	Pass by	S Limit (S20cm)	Pass by
Active	24200.00000	83.9	107.4	-11.3	0.000074	0.00063	1	5.0	32.0	1.0	32.0

*As Measured / Computed from highest fundamental emission, see fundamental emission section of the test report.

**EIRP, as computed from measured data reported in this application.

**** 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 ISSED Exposure Evaluation limits.