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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: 2.1091/1093, 447498 D01 General RF Exposure Guidance v06	Test Date: 1-Apr-17
IC REF: RSS-102 Issue 5	Test Engineer: Joseph Brunett
Min. Sep. Distance: <5mm	EUT: Digibit
	EUT Mode: Cont. Modulated
	Meas. Distance: 3 meters

Freq. MHz	EIRP (Pk) dBm	Duty Factor dB	EIRP (Avg) dBm	EIRP(Avg)** mW	
2402.00	2.8	.0	2.8	1.90	
2441.00	1.5	.0	1.5	1.41	
2480.00	.1	.0	.1	1.02	
Canada			USA		
Calculated SAR Threshold (Avg) mW	1-g SAR Body Power Threshold Exclusion Limit (Avg) mW	10-g SAR Extremity Power Threshold Exclusion Limit (Avg) mW	Calculated SAR Threshold (Avg)	1-g SAR Body Power Threshold Exclusion Limit (Avg)	10-g SAR Extremity Power Threshold Exclusion Limit (Avg)
1.899	4.000	10.000	0.59	3.0	7.5
1.409	4.000	10.000	0.44	3.0	7.5
1.024	4.000	10.000	0.32	3.0	7.5

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

**Only RMS level is required, RMS/6min << Pk, Peak emission employed to demonstrate compliance.

Summary:

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