

## **RF Exposure**

## FCC §1.1310

Performance Criterion (Limits):			f <sub>MHz</sub> /1	f <sub>MHz</sub> /1500 mW/cm²		
			At 90	08.4 MHz, the limit is 0.6056 mW/cm <sup>2</sup>		
			At 91	16 MHz, the limit is 0.6107 mW/cm <sup>2</sup>		
Evaluation Results:			Compl	Complies		
Details: The maximum permissible exposure (MPE) is predicted by using the following equa						
			S	$=$ EIRP/4 $\pi$ R <sup>2</sup>		
where:	S = EIRP = R =	power density (in a (Exd) <sup>2</sup> /30 tra E = d = distance to the cer	appropriate insmitter ou electric fiel measurem iter of radiat	units, e.g. mW/cm <sup>2</sup> ) tput power in watts d strength in V/m ent distance in m tion of the antenna (appropriate units, e.g., cm)		
For:	E = 92.76 dBuV/m (from Intertek test report 104271913LAX-001) = 43451 uV/m = 0.04345 V/ d = 3 m,					
		EIRP = (0.04345 x 3	3) <sup>2</sup> /30 = 0.00	005664 W = 0.5664 mW		
For:	r: EIRP = 0.5664 mW and R = 20 cm					
<b>S</b> = 0.5664 / (4 x π x 20 <sup>2</sup> ) = <b>0.0001 mW/cm<sup>2</sup></b>						
ISED RSS-102 Issue 5 §2.5.2						
Performance Criterion (Exemption Limi			Limits):	<b>1.31x10<sup>-2</sup>f<sup>-0.6834</sup> W</b> (300 MHz $\leq$ f < 6 GHz), f is in MHz.		
				At 908.4 MHz, 1.31x10 <sup>-2</sup> f <sup>-0.6834</sup> W = 1.37 W		

Evaluation Results: Complies

**Details:** Since the worst-case e.i.r.p. (at 916 MHz) is 0.0005664 W, which is much lower than the exemption limit of 1.39 W, RF exposure evaluation is exempted.

At 916 MHz,  $1.31 \times 10^{-2} f^{-0.6834} W = 1.39 W$