

RF Exposure compliance

RSS-102, Issue 4

1 - Annex C, Declaration of RF exposure compliance for exemption from routine evaluation limits

Company number:	11636A
Model number:	OST-NGEN-001
Manufacturer:	Tirestamp Inc.
2.5.1 SAR evaluation:	<p>SAR evaluation is required if the separation distance between the user and the radiating element of the device is less than or equal to 20 cm, except when the device operates as follows:</p> <ul style="list-style-type: none"> – <input type="checkbox"/> from 3 kHz up to 1 GHz inclusively, and with output power (i.e. the higher of the conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 200 mW for general public use and 1000 mW for controlled use; – <input type="checkbox"/> above 1 GHz and up to 2.2 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 100 mW for general public use and 500 mW for controlled use; – <input type="checkbox"/> above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20 mW for general public use and 100 mW for controlled use; – <input type="checkbox"/> above 3 GHz and up to 6 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 10 mW for general public use and 50 mW for controlled use.
2.5.2 RF exposure evaluation:	<p>RF exposure evaluation is required if the separation distance between the user and the device's radiating element is greater than 20 cm, except when the device operates as follows:</p> <ul style="list-style-type: none"> – <input checked="" type="checkbox"/> below 1.5 GHz and the maximum e.i.r.p. of the device is equal to or less than 2.5 W; – <input type="checkbox"/> at or above 1.5 GHz and the maximum e.i.r.p. of the device is equal to or less than 5 W.
E.i.r.p. calculation:	<p>Power = XXX dBm, Antenna gain: YYY dBi</p> $\text{e.i.r.p.}[W] = 10^{\frac{\text{Power } [dBm] + \text{Antenna gain } [dBi]}{10}} = 10^{\frac{XXX + YYY}{10}} = XXX \text{ mW} < XXX \text{ W}$ <p>(RF exposure evaluation is not applicable)</p> <p>Measured peak field strength is 67.61 dBμV/m @ 3 m. e.i.r.p.[W] = -27.62 dBm = 0.0017 mW < 200 mW (SAR and RF exposure evaluations are not applicable)</p> <p>E = field strength [V/m]</p> <p>R = distance [m]</p>

2 – Attestation

ATTESTATION: I attest that the radiocommunication apparatus meets the exemption from the routine evaluation limits in Section 2.5 of this standard; that the Technical Brief was prepared and the information contained therein is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed; and that the device meets the SAR and/or RF field strength limits of RSS-102.

Signature:	
Date:	June 11, 2014
Name:	Kevin Rose, Wireless/EMC Specialist
Company:	Nemko Canada Inc.