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Document title: FCC and I.C. RF Exposure Evaluation			Engineered: TB/LCPU

Description: FCC CFR 47 §1.1307(b)(1) and IC RSS-102 RF Exposure evaluation	Checked:
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FCC CFR 47 §1.1307(b)(1) and IC RSS-102 RF Exposure evaluation

FCC

According to the FCC exclusion list, equipment with output power below low threshold does not need SAR evaluation.

In the following table, f GHz is mid-band frequency in GHz, and d is the distance to a person's body, excluding hands, wrists, feet, and ankles.

Exposure category	<u>low threshold</u>	<u>high threshold</u>
general population	$(60/f_{\text{GHz}}) \text{ mW}, d < 2.5 \text{ cm}$ $(120/f_{\text{GHz}}) \text{ mW}, d \geq 2.5 \text{ cm}$	$(900/f_{\text{GHz}}) \text{ mW}, d < 20 \text{ cm}$
occupational	$(375/f_{\text{GHz}}) \text{ mW}, d < 2.5 \text{ cm}$ $(900/f_{\text{GHz}}) \text{ mW}, d \geq 2.5 \text{ cm}$	$(2250/f_{\text{GHz}}) \text{ mW}, d < 20 \text{ cm}$

This is a portable device with integral antenna and a maximum output power of **79 mW** (19 dBm) ERP.

The duty cycle of the device is considered to be 50% due to PTT/Vox mode operation.

Calculations of low threshold give the following:

Midband frequency f : 0.460 GHz

Distance to body d : 3.76 cm (worst case, compressed ear-caps)

Low threshold, general population: **261 mW**

Industry Canada

According to IC RSS-102, SAR evaluation is not required for these type of device with a maximum output power less than or equal to **200 mW** for general public use.