

Applicant: Summation Research
HVIN: STR-1820A, STR-1821A
PMN: UHF Non-Broadcast Radio
Certification Number: 9110A-STR1800
FCC ID: OQW-STR1800

FCC 1.1310 General Population/Uncontrolled Exposure

Frequency MHz	Power dBm	Antenna		EIRP ¹ dBm	EIRP mW	Distance D cm	PD ² mW/m ²	Limit ³ mW/cm ²	Margin dB
		Gain dBi	Duty Cycle %						
452.925	44.99	2.15	25	41.1	12940	60	0.286041	0.301950	0.235074

$$PD = EIRP / (4\pi r^2)$$

CANADA RSS-102, Issue 5 General Population/Uncontrolled Exposure

Frequency MHz	Power dBm	Antenna		EIRP ¹ dBm	EIRP W	Distance D m	PD ² W/m ²	Limit ³ W/m ²	Margin dB
		Gain dBi	Duty Cycle %						
452.925	44.99	2.15	25	41.1	12.9402	0.8	1.60898	1.71105	0.26714

$$PD = EIRP / (4\pi r^2)$$

¹EIRP = Power dBm + Antenna Gain dBi + 10xLog(Duty Cycle/100)

²Power Density PD = EIRP / (4xπxD²) [Health Canada Technical Guide - Safety Code 6_2015, Eq 5-6 at 5.2; OET Bulletin 65, Edition 97-01, August 1997, Eq (4)]

³RSS-102 Issue 5 Table 4; FCC 1.1310 Table 1