Rogers Lab		Trans			SN: 0				
124 cm 49 inches				47 cm 19 inches					
Overall Minimum Limit Public				Overall Minumu Limit					
	Canada (inches)	49.0		19.0					
	Canada (cm) Canada (inchas)	123.4		46.5					
FCC (inches)		33.0		15.0					
]	FCC (cm)	83.1		37.2					
		Public		Limit Occupational	Overall Minimum (cm)	Overall Minimum (in	cnes)		
				Limit	Quarall Minimur ()	Quaral Minimum C	chas)		
Canada	100	915		2,109	25.12	2.767	105.37	123.4	2.77
FCC	100	915		2,109	25.12	6.100	105.37	83.1	6.10
	Tx Duty Cycle (%)	Tx Frequency	(MHz)	Power Total (mW)	Antenna Gain (numeric)	$S_L (W/m^2)$	S ₂₀ (W/m ²)	R _C (cm)	S _C (W/m ²
Summary: Standalone MPE Cak	culations and Summary					Public Limit		Public	
	Or in Meters for Compliance with Canad		a General Population Limits, a mini	mum separation distance of	1.23	Meters			
	For Compliance with Canada General Population Limit			-					
R ₂₀ = 20cm					R20=		20	cm	
$S_{\rm C}$ = Power Density of the device at the Compliance Distance $R_{\rm C}~(W/m^2)$ Canada				$S_{C} = (P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_{C}(W/m^{2}) =$		19.53	W/m ²	
$S_{\rm C}$ = Power Density of the device at the Compliance Distance $R_{\rm C}(W/m^2)FCC$				$S_{C} = (P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_{\rm C} (W/m^2) =$	6.10	30.50	W/m ²	
$R_{\rm C}$ = Minimum distance to the Radiating Element for Compliance (cm) Canada				$R_C = \sqrt{(P_A G_N / 4\pi s_1)}$	$R_{C}(cm) =$	-	46.5	cm	
R_C = Minimum distance to the Radiating Element for Compliance (cm) FCC				$R_C = \sqrt{(P_A G_N / 4\pi S_1)}$	$R_{\rm C}$ (cm) =	83.1	37.2	cm	
S _L = Power Density Limit (W/m ²) Canada					$S_L (W/m^2) =$	2.767	19.526		
S_L = Power Density Limit (W/m ²) FCC					$S_L (W/m^2) =$	-	30.500		
S_{20} = Power Density of device at 20cm (W/m ²)				$S_{20} = (P_A G_N) / (4\pi R_{20})^2$	$S_{20} (W/m^2) =$				
S_{20} = Power Density of device at 20cm (mW/m ²)				$S_{20} = (P_A G_N) / (4\pi R_{20})^2$	$S_{20} (mW/m^2) =$			mW/m ²	
G _N = Numeric Gain of the Antenna					GN (numeric) =	-		numeric	
P _A = Adjusted Power due to Duty cy	cle or Cable Loss (mW)				$P_A(mW) =$		2,108.63	mW	
Duty cycle (percentage of operation)					% =	100	100	%	
P _T = Power Input to Antenna (mW)					P_{T} (mW) =	2,108.6281	2,108.6281	mW	
f = Transmit Frequency (MHz)					f (MHz) =		•	MHz	
		0,000 15	, - -		10	General Public	Occupational		
		6,000-15		50	10				
2.11	VV /111	300-6,0			$0.02619f^{0.6834}$				
2.77	W/m ²	48-300		50	1.291				
$0.02619 f^{0.6834}$	W/m ²			50	1				
17.5	General Public Limit 100-6,000			0.6455 <i>f</i> ^{0.5}					
19.5	W/m ² Frequency (MHz)			Occupational Limit (W/m ²)	Public Limit (W/m ²)				
$0.6455 f^{0.5}$	-		IC radio free	uency radiation exposure limits per	r RSS-102				
	Occupational Limit								
6.1	W/m ²								
		1,500-10,000		3	1				
0.61		-		5	1				
50.5	W/m General Public Limit	300-1,500		f/300	6.2 f/1500				
30.5	mW/cm ²	30-300		Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²) 0.2				
3.05	mW/cm ²	Frequency (
	Occupational Limit	1	FCC radio f	requency radiation exposure limits	per 1.1310				
	r (cm) EIRP (mW)								
	Power density (S) mW/cm ² = $$ 4 p r ²								
	EIRP]	Radiated (ERP) dBm			
			7		ĸ	Radiated (EIRP) dBm ERP = EIRP - 2.17			
	Calculated ERP (mw) 32136.605 Calculated EIRP (mw) 52966.344					Po(dBm) + Gain (dB)			
						enna Gain (Numeric)			
Cable Loss (dB)	0.0 Adjusted Power		ower (dBm)	33.24		nna minus cable (dBi)	14.00		
						Antenna Gain (dBd)	11.83		
Tx Frequency (MHz)	915	Calculation power (Watts)		2.11	dBd + 2.17 = dBi	i dBi to dBd	2.17		
		duty Cycle operation (Watts)		2.11		enna Gain (Numeric)	25.12		
Output Power for % duty Cycle operation (Watts)					· · · ·	Antenna Gain (dBi)			
	Transmitter Output power (W								
	Transmitter Output power (mW			2108.6					
	S = power density in mW/cm	-	<i>n</i> .						
	RF Exposure uses EIRP for calculation. EIRP is based dBi = dB gain compared to an isotropic radiator.			TX power added to the antenna ga	am in dBi.				
APE Calculator				7757 11 1	· · ID:				

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TranscoreSN: 014333HVIN: E4SV5PMN: E4SFCC ID: FIHE4SPT90V5Test: 220505IC: 1584A-E4SRSS137V5Test to: 47CFR Parts 2, 90 and RSS-137Date: May 31, 2022File: E4SV5 RFExpPage 1 of 1