

Model: E4S		Test Number: 200915					
MPE Calculator		RF Exposure uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.					
dBi = dB gain compared to an isotropic radiator.							
S = power density in mW/cm ²							
Transmitter Output power (mW)		2004.5					
Transmitter Output power (W)		2.004					
Output Power for % duty Cycle operation (Watts)		100		2.004		Antenna Gain (dBi)	
Output Power for 100% duty Cycle operation (Watts)		2.004		Antenna Gain (Numeric)		8	
Tx Frequency (MHz)		910		Calcuation power (Watts)		dBd + 2.17 = dBi	
						dBi to dBd	
						2.2	
Cable Loss (dB)		0.0		Adjusted Power (dBm)		Antenna Gain (dBd)	
						5.83	
Calculated ERP (mw)		7673.615		Antenna minus cable (dBi)		8.00	
Calculated EIRP (mw)		12647.363		Antenna Gain (Numeric)		6.31	
				EIRP = Po(dBM) + Gain (dB)		EIRP = Po(dBM) + Gain (dB)	
				Radiated (EIRP) dBm		41.020	
				ERP = EIRP - 2.17 dB		ERP = EIRP - 2.17 dB	
				Radiated (ERP) dBm		38.850	
		$\text{Power density (S) mW/cm}^2 = \frac{\text{EIRP}}{4 \pi r^2}$					
		$r \text{ (cm)} \quad \text{EIRP (mW)}$					