

<b>RF Radiation Hazard Calculations</b>						
Calculations are based on OET Bulletin 65 equations 11-18						
<b>Input Values</b>						
Frequency of operation					14125.00	MHz
Wavelength					0.02	Meters
Reflector Diameter					2.00	Meters
Reflector Area					3.14	
Antenna Gain					46.40	dBi
Input Power					15.30	dBW
Input Power					33.88	W
<b>Resultant EIRP</b>						
					61.70	dBW
					1479108.39	W
<b>Power Density At Antenna Surface</b>						
Maximum Power Density At Antenna Surface						
					43.14	W/m <sup>2</sup>
Maximum Power Density At Antenna Surface						
					4.31	mW/cm <sup>2</sup>
Maximum Power Density At Antenna Surface						
					6.35	dBW/cm <sup>2</sup>
Is this compliant with limits?						
For occupational/ controlled exposure (5 mW/cm <sup>2</sup> )						NO
For general population/ uncontrolled exposure (1 mW/cm <sup>2</sup> )						NO
<b>Power Density in the Near-Field Region</b>						
Extent of the Near-Field						
					47.08	Meters

Aperture Efficiency					0.08	
On-Axis Near-Field Power Density					3.41	W/m <sup>2</sup>
					0.34	mW/cm <sup>2</sup>
Is this compliant with limits?						
For occupational/ controlled exposure (5 mW/cm <sup>2</sup> )					NO	
For general population/ uncontrolled exposure (1 mW/cm <sup>2</sup> )					NO	
<b>Power Density in the Transition Region</b>						
Beginning of the Far-Field Region					113.00	Meters
Transition Region Power Density						
Power density (near-field)		0.10	mW/cm <sup>2</sup>		47.08	Meters
Power density (far-field)		0.04	mW/cm <sup>2</sup>		113.00	Meters
Is this compliant with limits?						
For occupational/ controlled exposure (5 mW/cm <sup>2</sup> )					NO	
For general population/ uncontrolled exposure (1 mW/cm <sup>2</sup> )					NO	
<b>Power Density in the Far-Field Region</b>						
Far-Field starts at					113.00	Meters
Power density at the start of Far-Field Region					0.15	mW/cm <sup>2</sup>
At what range is power density compliant with limits?						
For occupational/ controlled exposure (5 mW/cm <sup>2</sup> )					286.1	Meters
For general population/ uncontrolled exposure (1 mW/cm <sup>2</sup> )					639.8	Meters