

New England Market



Worst Case Power Density

Site:	CT11841
Site Address:	12 Orchard Street
Town:	Ledyard
Tower Height:	150 ft.
Tower Style:	Monopole
Base Station TX output	25 W
Number of channels	8
Antenna Model	APX16PV-16PVL
Cable Size	1 5/8
Cable Length	175 ft.
Antenna Height	147.0 ft.
Ground Reflection	1.6
Frequency	1945.0 MHz
Jumper & Connector loss	4.50 dB
Antenna Gain	17.8 dBi
Cable Loss per foot	0.0116 dB
Total Cable Loss	2.0300 dB
Total Attenuation	6.5300 dB
Total EIRP per Channel	55.25 dBm
(In Watts)	334.92 W
Total EIRP per Sector	64.28 dBm
(In Watts)	2679.35 W
nsg	11.2700
Power Density (S) =	0.029567 mW/cm^2
T-Mobile Worst Case % MPE =	2.9567%
Equation Used : $S = \frac{(1000 (grf))^2 (Power)^{nsg}}{4 \pi (R)^2}$ Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997	

Co-Location Total

Carrier	% of Standard
Verizon	
Cingular	
Sprint PCS	
AT&T Wireless	
Nextel	
Total Excluding T-Mobile	0.0000 %
T-Mobile	2.9567
Total % MPE for Site	2.9567%

Relative Gain Power Density

Antenna Relative Gain Factor	-27.0 dBi
Total Attenuation	6.5300 dB
Total EIRP per Channel	28.25 dBm
(In Watts)	0.67 W
Total EIRP per Sector	37.28 dBm
(In Watts)	5.35 W
nsg	-15.7300
Power Density (S) =	0.000059 mW/cm^2
T-Mobile Relative Gain % MPE =	0.0059%