

New England Market



Worst Case Power Density

Site:	CTHA076D
Site Address:	14-16Carpenter Rd
Town:	Bolton
Tower Height:	130 ft.
Tower Style:	Monopole
Base Station TX output	25 W
Number of channels	12
Antenna Model	APX16PV-16PVL
Cable Size	1 5/8
Cable Length	150 ft.
Antenna Height	127.0 ft.
Ground Reflection	1.6
Frequency	1945.0 MHz
Jumper & Connector loss	4.50 dB
Antenna Gain	16.5 dBi
Cable Loss per foot	0.0116 dB
Total Cable Loss	1.7400 dB
Total Attenuation	6.2400 dB
Total EIRP per Channel	54.24 dBm
(In Watts)	265.42 W
Total EIRP per Sector	65.03 dBm
(In Watts)	3185.09 W
nsg	10.2600
Power Density (S) =	0.047728 mW/cm^2
T-Mobile Worst Case % MPE =	4.7728%
Equation Used : $S = \frac{(1000 (grf))^2 (Power) * 10^{(nsg/10)}}{4 \pi (R)^2}$	
Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997	

Co-Location Total

Carrier	% of Standard
Verizon	NA
Cingular	NA
Sprint PCS	NA
AT&T Wireless	NA
Nextel	NA
Total Excluding T-Mobile	0.0000 %
T-Mobile	4.7728
Total % MPE for Site	4.7728%

Relative Gain Power Density

Antenna Relative Gain Factor	0.0 dBi
Total Attenuation	6.2400 dB
Total EIRP per Channel	54.24 dBm
(In Watts)	265.42 W
Total EIRP per Sector	65.03 dBm
(In Watts)	3185.09 W
nsg	10.2600
Power Density (S) =	0.047728 mW/cm^2
T-Mobile Relative Gain % MPE =	4.7728%