

Silver Spring Networks					
FCC ID: OWS-NIC507					
902-928 MHz FHSS Radio					
		Distance, cm	Distance, cm	Distance, cm	
		Center meter	Left Meter	Right Meter	
		26.5	30.96	30.96	
mW/cm2 from Table1:		0.60	0.6	0.6	
Max RF Power P, dBm	TX Antenna G, dBi	MPE distance cm	S, mW/cm	Comment	
29.56	2.40	14.4	0.178	Center Meter	contribution
29.86	4.00	18.0	0.202	Left Meter	contribution
29.86	4.00	18.0	0.202	Right meter	contribution
		TOTAL	0.58		
	Worst Case	RFx total	29.7%	% center	900 MHz
			33.7%	% left	900 MHz
			33.7%	% right	900 MHz
		TOTAL	97.0%	<=100%	
Basis of Calculations:					
$E^2/3770 = S, \text{ mW/cm}^2$					
$E, \text{ V/m} = (\text{Pwatts} * \text{Ggain} * 30)^{.5} / d, \text{ meters}$					
$d = ((\text{Pwatts} * \text{G} * 30) / (3770 * S))^{.5}$					
$S@20\text{cm} = 20 \log (\text{MPE dist} / 20\text{cm})$					
$\text{Pwatts} * \text{Ggain} = 10^{(\text{Pd} \text{Bm} - 30 + \text{Gd} \text{Bi}) / 10}$					
NOTE: For mobile or fixed location transmitters, minimum separation distance is for FCC compliance is 20 cm, even if calculations indicate MPE distance is less					

