EXHIBIT 13. CHANNEL PLAN AND SEPARATION

Not Applicable to this Device.

EXHIBIT 14. MPE CALCULATIONS

The following MPE calculations are based on the inverted-L printed circuit board trace antenna and the whip antenna, with a measured ERP of 137.2 dB μ V/m and 135.1 dB μ V/m respectively, at 1 meter, and conducted RF power of +28.8 dBm (Both antenna have peak power on channel 7) as presented to the antenna. The calculated gain of the trace antenna, based on the ERP measurements is 4.0 dB. The whip antenna has a declared gain of 1.0 dBi

14.1 MPE prediction for Trace antenna.

	Prediction of MPE limit at a given distance				
Equatio	n from page 18 of OET Bulletin 65, Edition 97-0	01			
	$S = \frac{PG}{4\pi R^2}$				
where:	S = power density				
	P = power input to the antenna				
	G = power gain of the antenna in the direction of interest relative to an isotropic radiator				
	R = distance to the center of radiation of the a	ntenna			
Maxim	um peak output power at antenna input terminal	: 28.80	(dBm)		
	Maximum peak output power at antenna input terminal:		(mW)		
	Antenna gain(typical)		(dBi)		
	Maximum antenna gain	: 2.512	(numeric)		
	Prediction distance	: 20	(cm)		
	Prediction frequency		(MHz)		
PE limit fo	r uncontrolled exposure at prediction frequency	: 1	(mW/cm^2)		
	Power density at prediction frequency	: 0.379079	(mW/cm^2)		
			,		
	Maximum allowable antenna gain	8.2	(dBi)		

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14.2 MPE prediction for Whip antenna.

	Prediction of MPE limit at a given distance	<u>e</u>	
Equation		·01	
	$S = \frac{PG}{4\pi R^2}$		
where:	S = power density		
	P = power input to the antenna		
	G = power gain of the antenna in the directio	to an isotropic radiator	
	R = distance to the center of radiation of the	antenna	
	um peak output power at antenna input termina		(dBm)
Maxim	um peak output power at antenna input termina	al: 758.578	(mW)
	Antenna gain(typica		(dBi)
	Maximum antenna gai		(numeric)
	Prediction distanc		(cm)
	Prediction frequenc		(MHz)
MPE limit fo	r uncontrolled exposure at prediction frequenc	y. 1	(mW/cm^2)
	Power density at prediction frequenc	y. 0.189990	(mVV/cm^2)
	Maximum allowable antenna gai	n: 8.2	(dBi)
	Margin of Compliance at 20 cm =	7.2	dB

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