Sandia Aerospace		Model: STX 165	Test Number:	110206		
MPE Calculator	MPE uses I	EIRP for calculation. E	IRP is based on TX pow	er added to the antenna	a gain in dBi.	
		in compared to an isot				
	S = power	density in mW/cm^2				
		Transmitter maximum	Peak Output power 278	Watts		
P	ower output	operation for 0.008%	2.2 Watts	Anter	ına Gain (dBi)	2
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	1090	Maximum (Watts)	2.2000	Anteni	na Gain (dBd)	-0.17
Cable Loss (dB)	0.0	(dBm)	33.42	Antenna min	us cable (dBi)	2.00
Calculated	d ERP (mw)	2115.547		EIRP = Po(dBM) + G	ain (dB)	
	EIRP (mw)			Radiated (EIRP) dBm ERP = EIRP - 2.17 dB		35.42
Occupational Limit		Power density (S)		Radiated (ERP) dBm		33.25
3,63333	•	EIRP			<u> </u>	
5.05555	III VV/CIII	= mW/cm^	2			
Ganaral F	Public Limit		-			
		1				
0.72667	mw/cm	r (cm) EIRP (mW	7)			
		Padia Eramanay re	diation area area limita e	or 1 1210/DSS 102		
			Adiation exposure limits p	Public Limit		
		Frequency (MHz) 30-300	Occupational Limit	0.2		
			-			
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		FCC radio frequ	nency radiation exposure	limits per 1.1310		
			Occupational Limit @	Public Limit @ Tx		
		Frequency (MHz)	Tx Freq (mW/cm^2)	Freq (mW/cm^2)		
		30-300	1	0.2		
		300-1,500	3.633333333	0.726666667		
		1,500-10,000	5	1		
		EIRP	Distance	Distance	S	Distance
		milliwatts	cm	inches	mW/cm ²	Feet
		3486.765	50.00	19.69	0.11099	1.64
		3486.765	30.00	11.81	0.30830	0.98
		3486.765	20.00	7.87	0.50850	0.98
		3486.765	19.50	7.68	0.09307	0.64
		3486.765	19.00	7.48	0.76861	0.62
		3486.765	18.00	7.09	0.85638	0.59
		3486.765	17.00	6.69	0.96010	0.56
		3486.765	16.00	6.30	1.08386	0.52
		3486.765	15.00	5.91	1.23319	0.49
		3486.765	10.00	3.94	2.77468	0.33
		3486.765	9.00	3.54	3.42553	0.30
		3486.765	8.75	3.44	3.62407	0.29
		3486.765	8.00	3.15	4.33544	0.26
		3486.765	7.00	2.76	5.66261	0.23
		3486.765	5.00	1.97	11.09872	0.16
			Occupational Limit			
			minimum Distance (cm	Public Limit minimum		
		Frequency (MHz)	/ inches)	distance (cm / inches)		
		300-1,500	8.75cm / 3.4"	19.5cm / 7.7"		

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Sandia Aerospace Corporation Model: STX 165 / STX 165R

Test #: 110206

Test to: CFR47 Paragraphs 2 and 87 File: RFExp STX165

FCC ID: YJL-DAFJDX

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