	Model: TDSPRMU1		Test Number: 191029				
				TX power added to the antenna ga	in in dBi.		
	dBi = dB gain compared to a		or.				
T.	S = power density in mW/cm		00/ (111 //)	0.0200			
Transmitter maximum Output power operating at 100% (Watte				0.0308		Antenna Gain (dBi)	1
	Percent Duty Cycle operation				Ant	enna Gain (Numeric)	1 1.26
Tx Frequency (MHz)	Output Power for 100% duty Cycle operation (Wate 917.3 Calcualtion power (Wate			0.0308 0.0308 dBd + 2.17 =		. ,	2.2
TX Frequency (WITZ)			wei (waus)	0.0508		Antenna Gain (dBd)	-1.17
Cable Loss (dB)	0.0 Adjusted Power (dBn		ower (dBm)	14.88	Antenna minus cable (dBi)		1.00
	Calculated ERP (mw) 23.496				EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw) 38.726				Radiated (EIRP) dBm		15.880
			1		ERP = EIRP - 2.17 dE		iΒ
	Power density (S) mW/	EIRP			F	Radiated (ERP) dBm	13.710
	1 Ower density (3) mw/	4 p r^2					
		r - 2					
	r (cm) EIRP (mW)						
	0		CC m dia f	terio di alcando de terio de t			
01 F00			equency radiation exposure limits p				
f/1500		Frequency (MHz)		Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
31		30-300		1	0.2		
	General Public Limit	300-1,500		f/300	f/1500		
f/1500	mW/cm ²	1,500-10,000		5	1		
6	W/m ²						
	Occupational Limit						
0.6455 <i>f</i> ^{0.5} 24.3		IC radio fre		quency radiation exposure limits per RSS-102			
	W/m ²	Frequency (MHz)		Occupational Limit (W/m ²)	Public Limit (W/m ²)		
	General Public Limit	100-6,000		$0.6455 f^{0.5}$			
0.02619 <i>f</i> ^{0.6834} 2.8	W/m ²	6,000-15,000		50			
	W/m ²	48-300			1.291		
	**/111	300-6,000			$0.02619f^{0.6834}$		
		6,000-15,000		50	10		
		0,000-15	,000	50	10		
= Transmit Frequecny (MHz)				f (MHz) =	917.3	
$P_{\rm T}$ = Power Input to Antenna (mW)				P_{T} (mW) =	30.7610		
Duty cycle (percentage of operation)				% =	100.0		
$P_A = Adjusted$ Power due to Duty cycle or Cable Loss (mW)				$P_A(mW) =$	30.76		
$G_N =$ Numeric Gain of the Antenna				GN (numeric) =	1.26		
S_{20} = Power Density of device at 20cm (W/m ²)			$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.08		
$S_{L} = Power Density Limit (W/m2)$			S_{20} (1 A O_N)/(TMO_20)	$S_{20} (W/m^2) =$ $S_L (W/m^2) =$	2.772		
				D			
R_{C} = Minimum distance to the Radiating Element for Compliance (cm)				$R_{C} = \sqrt{(P_A G_N / 4\pi S_L)}$	$R_{\rm C}$ (cm) =	3.3	
S_C = Power Density of the device at the Compliance Distance R_C (W/n		(W/m ²)		$S_{C} = (P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_{\rm C} (W/m^2) =$	2.77	
$R_{20} = 20 cm$					R20=	20	

Rogers Labs, Inc.SAF Tehnika ASS/N's: EUT1 / EUT24405 W. 259th TerraceModel: TDSPRMU1FCC ID: W9Z-ARANETRMLouisburg, KS 66053Test: 191029IC: 8855A-ARANETRMPhone/Fax: (913) 837-3214Test to: CFR47 15C, RSS-Gen RSS-247Date: December 3, 2019Revision 1File: TDSPRMU1 RFExpPage 1 of 1