	Model: RBMQS		Test Number: 190618			
APE Calculator	RF Exposure uses EIRP for calculation. EIRP is based		on TX power added to the antenna	gain in dBi.		
	dBi = dB gain compared to an					
	S = power density in mW/cm/					
Trans	smitter maximum Output power	operating at 100% (Watts)	0.0565		Antenna Gain (dBi)	1
				Ante	nna Gain (Numeric)	1.26
Tx Frequency (MHz)	243	7 Calcualtion power (Watts)	0.06	dBd + 2.17 = dBi	dBi to dBd	2.2
		· · · · · · · · · · · · · · · · · · ·	17.72	Antenna Gain (dBd)		-1.17
Cable Loss (dB)	0.	0 Adjusted Power (dBm)	17.52	Antenn	a minus cable (dBi)	1.00
	Calculated ERP (mw) 43.152			EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw) 71.121			Radiated (EIRP) dBm		18.520
				ERP = EIRP - 2.17 d		
Power density (S) mW/cr	EIRP m ² =			Radiated (ERP) dBm		16.350
Ower density (3) mw/cr	4 p r^2					
r (cm) EIRP (mW)						
	Ocometi 11 tti	ECC I'	fraguanau radiation and a fragma	n por 1 1210		
	Occupational Limit		o frequency radiation exposure limit	·		
5.0		Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
50.0		30-300	1	0.2		
	General Public Limit	300-1,500	f/300	f/1500		
]	1 mW/cm ²	1,500-10,000	5.00	1		
10.0) W/m ²					
	0					
0.	Occupational Limit			DGG 102		
$0.6455f^{0.2}$			requency radiation exposure limits p			
31.9		Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
	General Public Limit	100-6,000	$0.6455 f^{0.5}$			
$0.02619 f^{0.6834}$	4 W/m ²	6,000-15,000	50			
5.4	4 W/m ²	48-300		1.291		
		300-6,000		$0.02619 f^{0.6834}$		
		6,000-15,000	50	10		
= Transmit Frequecny (MHz				f (MHz) =	2437	
P _T = Power Input to Antenna (mW)				$P_T (mW) =$	56.4937	
Duty cycle (percentage of op				% =	50	
P _A = Adjusted Power due to Duty cycle or Cable Loss (mW)			$P_A(mW) =$	56.49		
G _N = Numeric Gain of the Antenna		-	GN (numeric) =	1.26		
S_{20} = Power Density of device at 20cm (W/m ²)		$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.14		
$S_L = Power Density Limit (W/m^2)$			$S_{L} (W/m^{2}) =$	5.404		
R_C = Minimum distance to the Radiating Element for Compliance (cm)		(cm)	$R_C = \sqrt{(P_A G_N / 4\pi s_1)}$	$R_{C}(cm) =$	3.2	
S_C = Power Density of the device at the Compliance Distance R_C (W/m ²)		(W/m ²)	$S_{C} = (P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_{C}(W/m^{2}) =$	5.40	
R ₂₀ = 20cm				R20=	20	
	For Complaince with Canad	General Population Limit	s, User Manual must indicate a mini	num seperation distance of	3.2 0	מוי

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA S/N: 84AD Model: RBMQS Test: 190618 Test to: 47CFR 15.247, RSS-247 File: RBMQS RFExp

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