Zebo Technologies		Model: Sensor SV1.1	Test Number:	110518T		
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.					
	dBi = dB gair	n compared to an isotropic i	radiator.			
	S = power de	nsity in mW/cm^2				
					Antenna Gain (dBi)	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2
Tx Frequency (MHz)	315	Maximum (Watts)	0.0017		Antenna Gain (dBd)	-1.7
Cable Loss (dB)	0.0	(dBm)	2.37	Ante	enna minus cable (dBi)	1.
	4 . 4555	4.040			a : (m)	
	ulated ERP (mw)			EIRP = Po(dBM) +	, ,	2.2
Calcu	lated EIRP (mw)	2.175		EDD - FIDD 2.17	Radiated (EIRP) dBm	3.3
0		Power density (S)		ERP = EIRP - 2.17		1.2
	ipational Limit	EIRP			Radiated (ERP) dBm	1.2
1.05000 mW/cm ²		= mW/cm^2				
	000 W/m ²	4 p r^2				
	ral Public Limit	r (cm) EIRP (mW)				
0.210	000 mW/cm ²					
2.100	000 W/m ²		_			
		FCC radio frequency:	radiation exposure lin	nits per 1.1310		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		FCC radio frequency:	radiation exposure lin	nits per 1.1310		
			Occupational Limit	Public Limit @ Tx		
		Frequency (MHz)	@ Tx Freq	Freq		
		300-1,500 (mW/cm2)	1.05	0.21		
		300-1,500 (W/m2)	10.5	2.1		
		1,500-10,000 (mW/cm2)	5	1		
		1,500-10,000 (W/m2)	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
2.173	0.00002	0.00017	100.00	1.00	39.37	0.08
2.173 2.173	0.00007 0.00011	0.00069 0.00108	50.00 40.00	0.50 0.40	19.69 15.75	0.04
2.173	0.00011	0.00108	30.00	0.30	11.81	0.03
2.173	0.00019	0.00192	20.00	0.20	7.87	0.02
2.173	0.00043	0.00534	18.00	0.18	7.09	0.02
2.173	0.00077	0.00334	15.00	0.15	5.91	0.02
2.173	0.00088	0.00882	14.00	0.14	5.51	0.01
2.173	0.00102	0.01023	13.00	0.13	5.12	0.01
2.173	0.00120	0.01201	12.00	0.12	4.72	0.01
2.173	0.00173	0.01729	10.00	0.10	3.94	0.01
2.173	0.00214	0.02135	9.00	0.09	3.54	0.01
2.173	0.00228	0.02285	8.70	0.09	3.43	0.01
2.173	0.00692	0.06918	5.00	0.05	1.97	0.00
2.173	0.01081	0.10809	4.00	0.04	1.57	0.00
2.173	0.01922	0.19216	3.00	0.03	1.18	0.00
2.173	0.21351	2.13514	0.90	0.01	0.35	0.00
			Occupational Limit	Occupational	Public Limit minimum	Public Limit minim
			minimum Distance	Limit minimum	distance (meters)	distance (cm /
			(meters)	Distance	(meters)	inches)
		Frequency (MHz)	((cm / inches)		
		300-1,500	N/A	N/A	0.01	0.9 / 0.35
		1.500-10.000	N/A	N/A	N/A	N/A

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214

Revision 1

Zebo Trending and Communications, Inc.

N/A

N/A

Model: Sensor SV1.1 Test #: 110518T

1,500-10,000

Test to: CFR 47 Parts 2, 15.231, IC RSS-210

File: RFExp SV1_1 110518T

SN: ENG1

N/A

FCC ID#: ZQQ-SV11 Date: July 14, 2011

N/A

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