

C2Ag	ISN-G-1	Test Number:	150811160105			
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi. dBi = dB gain compared to an isotropic radiator. S = power density in mW/cm <sup>2</sup>					
		Output Power	dBd + 2.17 = dBi	Antenna Gain (dBi)	2.2	
				dBi to dBd	2.2	
Tx Frequency (MHz)	915	Maximum (Watts)	1.000000	Antenna Gain (dBd)	0.03	
Cable Loss (dB)	0.0	(dBm)	30.00	Antenna minus cable (dBi)	2.20	
	Calculated ERP (mw)	1006.932	EIRP = Po(dBm) + Gain (dB)			
	Calculated EIRP (mw)	1659.587		Radiated (EIRP) dBm	32.200	
		Power density (S) EIRP ----- = mW/cm <sup>2</sup> 4 π r <sup>2</sup> r (cm) EIRP (mW)	ERP = EIRP - 2.17 dB	Radiated (ERP) dBm	30.030	
FCC Occupational Limit						
FCC radio frequency radiation exposure limits per 1.1310						
3.05000 mW/cm <sup>2</sup>	Frequency (MHz)	Occupational Limit (mW/cm <sup>2</sup> )	Public Limit (mW/cm <sup>2</sup> )			
30.50000 W/m <sup>2</sup>	300-1,500	f/300	f/1500			
FCC General Public Limit	1,500-10,000	5	1			
0.61000 mW/cm <sup>2</sup>						
6.10000 W/m <sup>2</sup>						
IC Occupational Limit						
IC radio frequency radiation exposure limits per RSS-102						
19.52571 W/m <sup>2</sup>	Frequency (MHz)	Occupational Limit (W/m <sup>2</sup> )	Public Limit (W/m <sup>2</sup> )			
	100-6,000	0.6455 f <sup>0.5</sup>				
IC General Public Limit	6,000-15,000	50				
2.76673 W/m <sup>2</sup>	300-6,000		0.02619 f <sup>0.6834</sup>			
	6,000-15,000	50	10			
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches	Feet
1659.587	0.01321	0.13207	100.00	1.00	39.37	3.28
1659.587	0.05283	0.52826	50.00	0.50	19.69	1.64
1659.587	0.08254	0.82541	40.00	0.40	15.75	1.31
1659.587	0.14674	1.46740	30.00	0.30	11.81	0.98
1659.587	0.21131	2.11305	25.00	0.25	9.84	0.82
1659.587	0.27286	2.72863	22.00	0.22	8.66	0.72
1659.587	0.33016	3.30164	20.00	0.20	7.87	0.66
1659.587	0.58696	5.86959	15.00	0.15	5.91	0.49
1659.587	0.67380	6.73805	14.00	0.14	5.51	0.46
1659.587	1.32066	13.20657	10.00	0.10	3.94	0.33
1659.587	1.91705	19.17052	8.30	0.083	3.27	0.27
1659.587	2.06353	20.63527	8.00	0.080	3.15	0.26
1659.587	2.69522	26.95219	7.00	0.070	2.76	0.23
1659.587	3.03181	30.31812	6.60	0.066	2.60	0.22
1659.587	3.66849	36.68492	6.00	0.060	2.36	0.20
1659.587	5.28263	52.82629	5.00	0.050	1.97	0.16
1659.587	8.25411	82.54108	4.00	0.040	1.57	0.13
		Standard	Occupational Limit minimum Distance (meters)	Public Limit minimum distance (meters)		
		47CFR 1.1310	0.07	0.15		
		RSS-102	0.08	0.22		

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Revision 1

C2Ag, LLC  
Model: ISN-G-1  
Test #: 150811  
Test to: 47CFR (15.247), RSS-247  
File: ISNG1 RFExp

FCC ID: 2AFK4-ISNG1  
IC: 20563-ISNG1  
SN: ENG1  
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