

Wilibox Deliberant Group Model: WMR300 Test Number: 080416  
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>

Antenna Gain (dBi) **18**  
dBi to dBd 2.2  
Tx Frequency (MHz) **913** Output Power Maximum (Watts) **0.5000** dBi to dBd **15.83**  
Cable Loss (dB) **0.0** (dBm) 26.99 Antenna minus cable (dB) 18.00

Calculated ERP (mw) 19141.237 EIRP = Po(dBm) + Gain (dB)  
Calculated EIRP (mw) 31547.867 Radiated (EIRP) dBm 44.990  
ERP = EIRP - 2.17 dB  
Radiated (ERP) dBm 42.820

#### Occupational Limit

**3.04333** mW/cm<sup>2</sup>

#### General Public Limit

**0.60867** mW/cm<sup>2</sup>

Power density (S)  
EIRP  
----- = mW/cm<sup>2</sup>  
4 π r<sup>2</sup>  
r (cm) EIRP (mW)

FCC radio frequency radiation exposure limits 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 limits per 1.1310		
Frequency (MHz)	Occupational Limit @ Tx Freq (mW/cm <sup>2</sup> )	Public Limit @ Tx Freq (mW/cm <sup>2</sup> )
300-1,500	3.043333333	0.608666667
1,500-10,000	5	1

EIRP	Distance	Distance	S	Distance
milliwatts	cm	inches	mW/cm <sup>2</sup>	Feet
31547.867	350.00	137.80	0.02049	11.48
31547.867	300.00	118.11	0.02789	9.84
31547.867	275.00	108.27	0.03320	9.02
31547.867	270.00	106.30	0.03444	8.86
31547.867	265.00	104.33	0.03575	8.69
31547.867	260.00	102.36	0.03714	8.53
31547.867	250.00	98.43	0.04017	8.20
31547.867	240.00	94.49	0.04359	7.87
31547.867	230.00	90.55	0.04746	7.55
31547.867	220.00	86.61	0.05187	7.22
31547.867	210.00	82.68	0.05693	6.89
31547.867	200.00	78.74	0.06276	6.56
31547.867	190.00	74.80	0.06954	6.23
31547.867	180.00	70.87	0.07748	5.91
31547.867	170.00	66.93	0.08687	5.58
31547.867	160.00	62.99	0.09807	5.25
31547.867	150.00	59.06	0.11158	4.92
31547.867	140.00	55.12	0.12809	4.59
31547.867	130.00	51.18	0.14855	4.27
31547.867	120.00	47.24	0.17434	3.94
31547.867	110.00	43.31	0.20748	3.61
31547.867	100.00	39.37	0.25105	3.28
31547.867	90.00	35.43	0.30994	2.95
31547.867	80.00	31.50	0.39227	2.62
31547.867	70.00	27.56	0.51235	2.30
31547.867	60.00	23.62	0.69736	1.97
31547.867	50.00	19.69	1.00420	1.64
31547.867	40.00	15.75	1.56906	1.31
31547.867	30.00	11.81	2.78944	0.98
31547.867	29.00	11.42	2.98514	0.95
31547.867	28.00	11.02	3.20217	0.92

Frequency (MHz)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (cm / inches)
300-1,500	N/A	N/A
1,500-10,000	29 / 11.4	70 / 27.5

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Wilibox Deliberant Grp FCC ID#: V2U-WMR300  
Model: WMR300  
Test #: 080416  
Test to: FCC Parts 2 and 15c  
File: RFExp WMR300