

# Standalone SAR test exclusion considerations

$S$  = Maximum power density (mW/cm<sup>2</sup>)  
 $P$  = Power input to the antenna (mW)  
 $G$  = Numeric power gain of the antenna  
 $R$  = Distance to the center of the radiation of the antenna  
 $EIRP = P \cdot G$   
 $EIRP = \text{Equivalent Isotropic Radiated Power(mW)} (=P \cdot G)$

Frequency range (MHz)	Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging time (minutes)
0.3 ~ 1.34	614	1.63	*100	30
1.34 ~ 30	824 / f	2.19 / f	*180 / f <sup>2</sup>	30
30 ~ 300	27.5	0.073	0.2	30
300 ~ 1,500			f / 1500	30
1,500 ~ 100,000			1	30

Model Name : WCS-232 V6.0

FCC ID : PRO-WCS-232V6

Separation distance (R) : 20.0 cm

Modulation	Frequency (MHz)	Measured Maximum Average power	Tune-up tolerance	Max. Power with tune-up tolerance ( P )		Max. Power with tune-up tolerance ( G )		Power Density (S)	Limit of Power Density (S)	Result
		(dBm)	(dB)	(dBm)	(mW)	(dBi)	(numeric)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )	
GFSK	2402	11.67	± 1.00	12.67	18.49	-1.32	0.74	0.0027	1.00	PASS
	2442	11.92		12.92	19.59	-1.32	0.74	0.0029	1.00	PASS
	2480	12.23		13.23	21.04	-1.32	0.74	0.0031	1.00	PASS
π/4DQPSK	2402	2.87	± 1.00	3.87	2.44	1.00	1.26	0.0006	1.00	PASS
	2442	2.20		3.20	2.09	1.00	1.26	0.0005	1.00	PASS
	2480	2.05		3.05	2.02	1.00	1.26	0.0005	1.00	PASS
8DPSK	2402	2.96	± 1.00	3.96	2.49	1.00	1.26	0.0006	1.00	PASS
	2442	2.29		3.29	2.13	1.00	1.26	0.0005	1.00	PASS
	2480	2.15		3.15	2.07	1.00	1.26	0.0005	1.00	PASS

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.