

FCC RF EXPOSURE REPORT

FCC ID: XRSCRMXTIMO101

Project No. : 1412C113
Equipment : 2.4G Wireless Control Module
Model : 200-1502
Applicant : LumenRadio AB
Address : Stena Center 1, Gothenburg, Sweden

According: : FCC Guidelines for Human Exposure IEEE C95.1

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:


S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1		104-1001	Dipole	RP-TNC	2.15
2	N/A	N/A	Chip	N/A	0.5

TEST RESULTS

EUT :	2.4G Wireless Control Module	Model Name :	200-1502
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	DC 3V		
Test Mode :	1Mbps_CH01/39/79_Dipole ANT		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.15	1.6406	23.53	225.4239	0.07361230	1	Complies
2.15	1.6406	23.16	207.0141	0.06760057	1	Complies
2.15	1.6406	20.18	104.2317	0.03403693	1	Complies

Note: the calculated distance is 20 cm.