

Certification Exhibit

FCC ID: HSW-CCT900

FCC Rule Part: 15.247

ACS Project Number: 16-0029

Manufacturer: Murata Electronics North America
Model: CCT900

RF Exposure

General Information:

Applicant: Murata Electronics North America
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Max Antenna Gain (20cm): 8dBi
 Maximum Transmitter Conducted Power: 22.83 dBm, 191.87 mW
 Maximum System EIRP: 30.83 dBm, 1210.60 mW
 Exposure Conditions: Greater than 20 centimeters

Technical Information:

Max Antenna Gain (30cm): 12dBi
 Maximum Transmitter Conducted Power: 22.83 dBm, 191.87 mW
 Maximum System EIRP: 34.83 dBm, 3040.89 mW
 Exposure Conditions: Greater than 30 centimeters

Antenna Information:

Antenna Type / Gain: Dipole, 5dBi
 PIFA, 4dBi
 Yagi, 9dBi
 Panel, 12dBi

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

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

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
914.113	22.83	0.61	191.87	12	15.849	30	0.269
914.113	22.83	0.61	191.87	8	6.310	20	0.241