FCC RF EXPOSURE REPORT

FCC ID: OMOS85807

Project No. : **1607C258**
Equipment : **Professional Weather Station**
Model : **S85807**
Applicant : **La Crosse Technology Ltd.**
Address : **2809 Losey Blvd. South La Crosse, WI 54601. U.S A.**

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

BTL INC.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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	La Crosse Technology	N/A	Internal	N/A	2

TEST RESULTS

EUT：	Professional Weather Station	Model Name :	S85807
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX B Mode_CH01/06/11		

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	1.5849	9.59	9.0991	0.00287	1	Complies
2	1.5849	10.63	11.5611	0.00365	1	Complies
2	1.5849	13.38	21.7771	0.00687	1	Complies

EUT：	Professional Weather Station	Model Name :	S85807
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX G Mode_CH01/06/11		

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	1.5849	19.29	84.9180	0.02679	2	Complies
2	1.5849	19.18	82.7942	0.02612	4	Complies
2	1.5849	19.25	84.1395	0.02654	5	Complies

EUT：	Professional Weather Station	Model Name :	S85807
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 Mode_CH01/06/11		

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	1.5849	19.57	90.5733	0.02857	6	Complies
2	1.5849	19.39	86.8960	0.02741	7	Complies
2	1.5849	19.86	96.8278	0.03055	8	Complies

Note: the calculated distance is 20 cm.