FCC RF EXPOSURE REPORT

FCC ID: RBWESY13P1

Project No.	**: 1510226**
Equipment	**: POS**
Model	**: ESY13P1**
Applicant	**: Elo Touch Solutions, Inc.**
Address	**: 1033 McCarthy Blvd, Milpitas, CA 95035,USA**
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.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)
1	ACX	AT3216-B2R7HAA	Chip	N/A	-0.5

TEST RESULTS

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EUT：	POS	Model Name :	ESY13P1
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX Mode _1Mbps		

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
-0.5	0.8913	2.62	1.8281	0.00032430	1	Complies
-0.5	0.8913	2.84	1.9231	0.00034115	1	Complies
-0.5	0.8913	2.76	1.8880	0.00033493	1	Complies

EUT：	POS	Model Name :	ESY13P1
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX Mode _3Mbps		

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
-0.5	0.8913	4.31	2.6977	0.00047858	1	Complies
-0.5	0.8913	4.59	2.8774	0.00051045	1	Complies
-0.5	0.8913	4.59	2.8774	0.00051045	1	Complies

WIFI 2.4G

EUT：	POS	Model Name :	ESY13P1
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX B MODE /CH01, CH06, CH11		

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
-0.5	0.8913	16.62	45.9198	0.00814611	1	Complies
-0.5	0.8913	16.75	47.3151	0.00839364	1	Complies
-0.5	0.8913	17.04	50.5825	0.00897326	1	Complies

EUT：	POS	Model Name :	ESY13P1
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX G MODE /CH01, CH06, CH11		

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
-0.5	0.8913	18.32	67.9204	0.01204898	1	Complies
-0.5	0.8913	19.02	79.7995	0.01415632	1	Complies
-0.5	0.8913	19.47	88.5116	0.01570183	1	Complies

EUT：	POS	Model Name :	ESY13P1
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE /CH01, CH06, CH11		

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
-0.5	0.8913	18.42	69.5024	0.01232964	1	Complies
-0.5	0.8913	18.77	75.3356	0.01336443	1	Complies
-0.5	0.8913	19.18	82.7942	0.01468758	1	Complies

EUT：	POS	Model Name :	ESY13P1
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE /CH03, CH06, CH09		

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
-0.5	0.8913	17.71	59.0201	0.01047009	1	Complies
-0.5	0.8913	17.83	60.6736	0.01076342	1	Complies
-0.5	0.8913	18.01	63.2412	0.01121890	1	Complies

Note: the calculated distance is 20 cm.