FCC RF EXPOSURE REPORT

FCC ID: 2AIUQ-N1001R31

Project No. : **1605084**
Equipment : **Intercom**
Model : **N1001R31**
Applicant : **CloudTalk Inc.**
Address : **325 Pembroke Road, Bala Cynwyd 19004 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.	Brand	P/N	Antenna Type	Connector	Gain(dBi)
1	WIESON	GY136HC0023-004	PIFA	N/A	3.04

TEST RESULTS

BT:

EUT：	Intercom	Model Name :	N1001R31
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
3.04	2.0137	11.37	13.7088	0.00549478	1	Complies
3.04	2.0137	11.87	15.3815	0.00616525	1	Complies
3.04	2.0137	10.7	11.7490	0.00470924	1	Complies

LE:

EUT：	Intercom	Model Name :	N1001R31
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
3.04	2.0137	8.01	6.3241	0.00253484	1	Complies
3.04	2.0137	8.46	7.0146	0.00281158	1	Complies
3.04	2.0137	7.86	6.1094	0.00244878	1	Complies

2.4G WIFI:

EUT：	Intercom	Model Name :	N1001R31
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
3.04	2.0137	22.73	187.4995	0.07515370	1	Complies
3.04	2.0137	23.26	211.8361	0.08490834	1	Complies
3.04	2.0137	22.22	166.7247	0.06682675	1	Complies

Note: the calculated distance is 20 cm.