

FCC RF EXPOSURE REPORT

FCC ID: Q3N-25BTBASE

Project No. : 1607100
Equipment : Bluetooth Scanner Cradle
Model : 2500 BT BASE
Applicant : CIPHERLAB CO., LTD.
Address : 12F, 333, Dunhua S. Rd., Sec. 2, Taipei, Taiwan

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

BTL Inc.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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	N/A	N/A	Internal	N/A	2.95

TEST RESULTS

BT:

EUT :	Bluetooth Scanner Cradle	Model Name :	2500 BT BASE
Temperature :	25 °C	Relative Humidity:	60%
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
2.95	1.9724	2.05	1.6032	0.00062943	1	Complies
2.95	1.9724	3.02	2.0045	0.00078696	1	Complies
2.95	1.9724	3.02	2.0045	0.00078696	1	Complies

EUT :	Bluetooth Scanner Cradle	Model Name :	2500 BT BASE
Temperature :	25 °C	Relative Humidity:	60%
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
2.95	1.9724	1.96	1.5704	0.00061652	1	Complies
2.95	1.9724	3.03	2.0091	0.00078877	1	Complies
2.95	1.9724	3.07	2.0277	0.00079607	1	Complies

BT LE:

EUT :	Bluetooth Scanner Cradle	Model Name :	2500 BT BASE
Temperature:	25 °C	Relative Humidity:	60%
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
2.95	1.9724	4.23	2.6485	0.00103980	1	Complies
2.95	1.9724	5.03	3.1842	0.00125012	1	Complies
2.95	1.9724	4.37	2.7353	0.00107387	1	Complies

Note: the calculated distance is 20 cm.