

Maximum Permissible Exposure Report

FCC ID: 2AZL6-LB60004G

Report No. : BTL-FCCP-4-2103T093
Equipment : LBeacon
Model Name : LB60004G
Brand Name : BiDaE Technology, Incorporated
Applicant : BiDaE Technology, Incorporated
Address : 1F., NO. 5, LN. 96, SEC. 1, DA-AN RD., DA-AN DIST., TAIPEI CITY 106, TAIWAN (R.O.C.)

FCC Rule Part(s) : FCC CFR Title 47, Part 2 (2.1091)
FCC Guidelines for Human Exposure IEEE C95.1

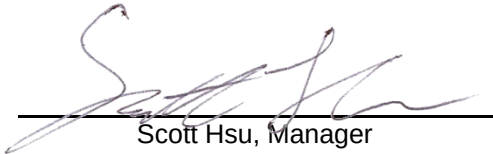
Date of Receipt : 2021/4/7
Date of Test : 2021/4/7 ~ 2021/6/24
Issued Date : 2021/7/12

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by


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**Approved by**


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REVISION HISTORY

Report No.	Version	Description	Issued Date
BTL-FCCP-4-2103T093	R00	Original Report.	2021/7/12

Table for Filed Antenna

For BT EDR, BLE:

Antenna	Manufacture	Model name	Type	Connector	Frequency (MHz)	Gain (dBi)
-	ALFA	Pi-WiFi-ANT-BT	PIFA	I-PEX	2400	5.94
					2450	6.31
					2500	6.16

For 2.4GHz WLAN:

Antenna	Manufacture	Model name	Type	Connector	Frequency (MHz)	Gain (dBi)
P1 (TX)	ALFA	Pi-WiFi-ANT	PIFA	I-PEX	2400	1.94
					2450	1.70
					2500	1.82
P3 (RX)	ALFA	Pi-WiFi-ANT	PIFA	I-PEX	2400	0.02
					2450	0.14
					2500	0.21

Maximum RF OUTPUT POWER

Mode		Conducted Power (dBm)
WLAN 2.4 GHz	IEEE 802.11b	24.38
	IEEE 802.11g	24.39
	IEEE 802.11n (HT20)	24.39
	IEEE 802.11n (HT40)	24.39
BT DER		0.16
BLE		-0.05

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

RESULTS

For BT EDR:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6.31	4.2756	0.16	1.0375	0.00088298	1	Complies

For BLE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6.31	4.2756	-0.05	0.9886	0.00084130	1	Complies

For 2.4G WLAN:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.94	1.5631	24.39	274.7894	0.08549690	1	Complies

Note:

1. The calculated distance is 20 cm.

End of Test Report