FCC RF EXPOSURE REPORT

FCC ID: VYVAW3155-50-50R

Project No.	:	2105C039
Equipment	:	**IEEE 802.11a/b/g/n/ac 1T1R + Bluetooth 5.0 Combo Module**
Brand Name	:	ITON or
Test Model	:	AW3155-50R
Series Model	:	AW3155-50
Applicant	:	Iton Technology Corp.
Address	:	7 Floor East, Building C, Shenzhen International Innovation Center, No.1006 Shennan Rd. Futian Dist,Shenzhen,China
Manufacturer	:	Iton Technology Corp.
Address	:	7 Floor East, Building C, Shenzhen International Innovation Center, No.1006 Shennan Rd. Futian Dist,Shenzhen,China
Factory	:	Iton Technology Corp., Longgang Branch
Address	:	2~3 Floor, East Wing, Building A, Weixinda Technology Park, No.95 Ainan Road, Longgang District, Shenzhen City, Guangdong Province, China.
Date of Receipt	:	May 11, 2021
Date of Test	:	May 27, 2021 ~ Jul. 30, 2021
Issued Date	:	Sep. 01, 2021
Report Version	:	R02
Test Sample	:	Engineering Sample No.: DG2021052747
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

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

Vincent. Tan

Prepared by : Vincent Tan

Ethan Ma

Approved by : Ethan Ma

TESTING CERT #5123.02

Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China

Tel: +86-769-8318-3000

Web: www.newbtl.com

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Aug. 17, 2021
R01	Only updated the brand name, manufacturer and applicant information.	Aug. 27, 2021
R02	Only Updated the FCC ID.	Sep. 01, 2021

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China.
BTL's Test Firm Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

2. 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:

For BT, LE&2.4G:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	RFlink	RF11C02085S	FPC	N/A	3.3

Note: The antenna gain is provided by the manufacturer.

For 5G:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	RFlink	RF11C02085S	FPC	N/A	4.4

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

Tune up tolerance(dBm)						
BT	LE	2.4GHz	5GHz			
			UNII-1	UNII-2A	UNII-2C	UNII-3
8.00	6.50	17.00	15.80	16.00	15.50	15.70

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
3.3	2.1380	8.00	6.3096	0.00269	1	Complies

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
3.3	2.1380	6.50	4.4668	0.00190	1	Complies

For 2.4GHz:

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
3.3	2.1380	17.00	50.1187	0.02133	1	Complies

For 5GHz UNII-1:

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
4.4	2.7542	15.80	38.0189	0.02084	1	Complies

For 5GHz UNII-2A:

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
4.4	2.7542	16.00	39.8107	0.02182	1	Complies

For 5GHz UNII-2C:

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
4.4	2.7542	15.50	35.4813	0.01945	1	Complies

For 5GHz UNII-3:

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
4.4	2.7542	15.70	37.1535	0.02037	1	Complies

For the max simultaneous transmission MPE:

Power Density (S) (mW/cm^2) 2.4GHz	Power Density (S) (mW/cm^2) 5GHz	Total	Limit of Power Density (S) (mW/cm^2)	Test Result
0.02133	0.02182	0.04315	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report