FCC RF EXPOSURE REPORT

FCC ID: VYVBW1352-PCIE

Project No.	:	1906C176
Equipment	:	Module
Brand Name	:	N/A
Test Model	:	BW1352-PCIE
Series Model	:	N/A
Applicant	:	Iton Technology Corp.
Address	:	7 Floor East, Building C, Shenzhen International Innovation Center, No. 1006 Shennan Road, Futian District, Shenzhen, China
Manufacturer	:	Iton Technology Corp.
Address	:	7 Floor East, Building C, Shenzhen International Innovation Center, No. 1006 Shennan Road, Futian District, Shenzhen, China
Factory	:	Longgang branch of Iton Technology Crop.
Address	:	Floor2~3,east side of building A,weixinda science and technologypark,NO.95,ainan road,longgang street,longgang district,shenzhen
Date of Receipt	:	Jun. 26, 2019
Date of Test	:	Jun. 27, 2019 ~ Oct. 16, 2019
Issued Date	:	Nov. 15, 2019
Report Version	:	R01
Test Sample	:	Engineering Sample No.: DG201908301
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.

Prepared by : Rose Liu

Approved by : Ethan Ma

Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town,Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 12, 2019
R01	Changed the product name.	Nov. 15, 2019

1. 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	Model Name	Antenna Type	Connector	Gain (dBi)
1	RoHS compliant	N/A	PCB	N/A	0
2	RoHS compliant	N/A	PCB	N/A	0

Note:
Antenna Gain=0 dBi. This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain=G_{ANT}+10log(N)dBi, that is Directional gain=0+10log(2)dBi=3.01.

2. TEST RESULTS

For WLAN 2.4GHz:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
3.01	1.9999	22.61	182.3896	0.07260	1	Complies

For RLAN 5GHz UNII-1:

Directional Gain (dBi)	Directional 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
3.01	1.9999	19.68	92.8966	0.03698	1	Complies

For 5GHz UNII-2A:

Directional Gain (dBi)	Directional 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
3.01	1.9999	19.77	94.8418	0.03775	1	Complies

For 5GHz UNII-2C:

Directional Gain (dBi)	Directional 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
3.01	1.9999	19.82	95.9401	0.03819	1	Complies

For 5GHz UNII-3:

Directional Gain (dBi)	Directional 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
3.01	1.9999	19.60	91.2011	0.03630	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
0.07260	0.03819	0.11079	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance(tune up tolerance: 2 dBm).

End of Test Report