FCC RF EXPOSURE REPORT

FCC ID: YWTWF55724MX

Project No.	**: 1511C223**
Equipment	**: WiFi Module**
Model	**: GWF-4M02**
Applicant	**: Shenzhen Ogemray Technology Co.**
Address	**: 3/F~4/F,NO.5 Bldg, Dongwu Industrial Park, Donghuan 1st Road, Longhua Town, Shenzhen,China**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1**

BTL INC.

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

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

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	N/A	N/A	Printed	N/A	2
2	N/A	N/A	Printed	N/A	2

TEST RESULTS

UNII-1:

EUT：	WiFi Module	Model Name :	GWF-4M02
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	UNII-1/TX A Mode_Total/CH36, CH40, CH48		

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	1.5849	10.01	10.0231	0.00316192	1	Complies
2	1.5849	10.09	10.2094	0.00322070	1	Complies
2	1.5849	10.05	10.1158	0.00319117	1	Complies

EUT：	WiFi Module	Model Name :	GWF-4M02
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	UNII-1/TX N20 Mode_Total/CH36, CH40, CH48		

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	1.5849	10.71	11.7761	0.00371493	1	Complies
2	1.5849	10.73	11.8304	0.00373208	1	Complies
2	1.5849	10.7	11.7490	0.00370638	1	Complies

EUT：	WiFi Module	Model Name :	GWF-4M02
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	UNII-1/TX N40 Mode_Total/CH38, CH46		

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	1.5849	10.60	11.4815	0.00362202	1	Complies
2	1.5849	10.86	12.1899	0.00384548	1	Complies

UNII-3:

EUT：	WiFi Module	Model Name :	GWF-4M02
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	UNII-3/ TX A Mode_Total/ CH149, CH157, CH165		

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	1.5849	9.84	9.6383	0.00304054	1	Complies
2	1.5849	10.01	10.0231	0.00316192	1	Complies
2	1.5849	10.2	10.4713	0.00330332	1	Complies

EUT：	WiFi Module	Model Name :	GWF-4M02
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	UNII-3/ TX N20 Mode_Total/ CH149, CH157, CH165		

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	1.5849	10.54	11.3240	0.00357232	1	Complies
2	1.5849	10.68	11.6950	0.00368935	1	Complies
2	1.5849	10.49	11.1944	0.00353143	1	Complies

EUT：	WiFi Module	Model Name :	GWF-4M02
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	UNII-1/TX N40 Mode_Total/CH38, CH46		

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	1.5849	10.92	12.3595	0.00389897	1	Complies
2	1.5849	10.79	11.9950	0.00378399	1	Complies

Note: the calculated distance is 20 cm.