

Maximum Permissible Exposure Report

FCC ID: 2AF5PMGMT87

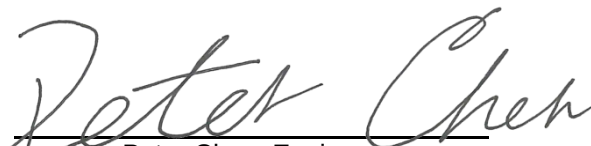
Report No. : BTL-FCCP-7-2006T060
Equipment : D3.1 Cable Modem plus AX6000 Router with Voice
Model Name : MT8733, MG8725
Brand Name : MOTOROLA
Applicant : MTRLC LLC
Address : 225 Franklin Street, 26th Floor, Boston, MA 02110 USA

FCC Rule Part(s) : FCC Guidelines for Human Exposure IEEE C95.1

Date of Receipt : 2020/6/12
Date of Test : 2020/6/12 ~ 2020/8/11
Issued Date : 2020/8/26

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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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	2020/8/26

Table for Filed Antenna

For Z-Wave:

Ant.	Model No.	Antenna Type	Connector	Gain (dBi)
1	Metal	PIFA	SMA	0

For Zigbee, BLE:

Ant.	Model No.	Antenna Type	Connector	Gain (dBi)
1	Metal	PIFA	SMA	3

For 2.4GHz WLAN:

Ant.	Model No.	Antenna Type	Connector	Gain (dBi)
1	PCB	Dipole	SMA	3
2	PCB	Dipole	SMA	3
3	PCB	Dipole	SMA	3
4	PCB	Dipole	SMA	3

For 5GHz WLAN:

Ant.	Model No.	Antenna Type	Connector	Gain (dBi)
1	PCB	Dipole	SMA	4
2	PCB	Dipole	SMA	4
3	PCB	Dipole	SMA	4
4	PCB	Dipole	SMA	4

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

TEST RESULTS

For Z-Wave:

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
0.00	1.0000	11.00	12.5893	0.00250582	1	Complies

For Zigbee:

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
3.00	1.9953	16.88	48.7528	0.01936201	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
3.00	1.9953	18.15	65.3131	0.02593883	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
3.00	1.9953	29.91	979.4900	0.38900069	1	Complies

For 5G RLAN:

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
4.00	2.5119	29.97	993.1160	0.49653557	1	Complies

Note:

1. The calculated distance is 20 cm.

End of Test Report