

# FCC RF EXPOSURE REPORT

## FCC ID: XRSMLLEN201

**Project No.** : 2102C088  
**Equipment** : SRD device for operation in the 2.45GHz band  
**Brand Name** : LumenRadio  
**Test Model** : MLE-N2  
**Series Model** : N/A  
**Applicant** : LumenRadio AB  
**Address** : Svangatan 2B, SE-41668 Gothenburg  
**Manufacturer** : LumenRadio AB  
**Address** : Svangatan 2B, SE-41668 Gothenburg  
**Factory** : Inission Borås AB  
**Address** : Gränsvägen 6  
**Date of Receipt** : Feb. 25, 2021  
**Date of Test** : Mar. 03, 2021 ~ Mar. 15, 2021  
**Issued Date** : Mar. 23, 2021  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG20210225122  
**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.



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Certificate #5123.02

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**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue	Mar. 23, 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 Road, Shixia, Dalang Town, Dongguan, Guangdong, 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:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	2

Note:

1) The antenna gain is provided by the manufacturer.

## 3. TEST RESULTS

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2	1.5849	7.54	5.6754	0.00179	1	Complies

Note: The calculated distance is 20 cm.

**End of Test Report**