



MPE/RF EXPOSURE REPORT

FCC CFR 47 Part 1.1310

Report No.: LYFT27-U8 Rev A

Company: Lyft, Inc.

Model Name: BIT043G

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To: FCC CFR 47 Part 1.1310

Report Serial No.: LYFT27-U8 Rev A

This report supersedes: NONE

Applicant: Lyft, Inc.
185 Berry St #400
San Francisco, CA 94107
USA

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This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
575 Boulder Court
Pleasanton California 94566
USA
Phone: +1 (925) 462-0304
Fax: +1 (925) 462-0306
www.micomlabs.com



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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm²) = EIRP/(4*π*d²)

EIRP = P * G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = 10 ^ (G (dBi)/10)

FCC CFR 47 Part 1.1310 Power Density Limits for General Population/Uncontrolled Exposure:

1.34-30 Power Density = (180/f²)
 300-1,500 MHz; Power Density = f/1500 mW/cm²
 1,500-100,000 MHz; Power Density = 1.0 mW/cm²

The calculations in the table below use the highest measured conducted power values together with the antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels.

NFC Output Power is as declared by the manufacturer.

Reference reports.

The Lyft BIT043G product contains 1 pre-certified Radio modules. The following MPE assessment report were referenced in performing this assessment of MPE Exposure

LTE Module EG916Q-GL; Tested by Hefei Panwin Technology Co., LTD; Report number PD20230223-R3A, Report Version 01, Issue Date 2025/02/18.

Specification - Maximum Permissible Exposure Limits.

The Limit is defined in Table 1 of FCC §1.1310.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)
LTE 782MHz	3.60	2.29	25.0	316.23	0.1441	0.52	10.52
2.4 BLE	2.50	1.78	7.53	5.660	0.0020	1.0	0.89
NFC	0.00	1.00	26.00	398.11	0.0792	0.978	5.69

Note 1: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

Worst Case Simultaneous Operation

These calculations represent worst case in terms of the exposure levels and assume all radio transmitters i.e. LTE Cellular, 2.4GHz BLE, NFC radios are operating simultaneously.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance for Summation (cm)	Calculated Power Density (mW/cm ²) @ 20cm	Power Density Limit (mW/cm ²)	Pd _{Calc} / Pd _{Limit}
LTE 782MHz	3.60	2.29	25.0	316.23	10.516	0.1441	0.52	0.2764
2.4 BLE	2.50	1.78	7.53	5.66	0.89	0.0020	1.0	0.0020
NFC	0.00	1.00	26.00	398.11	5.69	0.0792	0.978	0.0810
Summation Pd_{Calc}/ Pd_{Limit} @ 20 cm distance:								0.3594

Evaluation for compliance of simultaneous transmission where the power density limits are different is performed by the summation of ratios;

Calculated Power Density/Power Density Limit

$Pd_{Calc1}/Pd_{Limit1} + Pd_{Calc2}/Pd_{Limit2} + Pd_{Calc3}/Pd_{Limit3} + \text{etc.} < 1.$

SUMMARY;

Summation of Pd_{Calc}/ Pd_{Limit} @ 20 cm distance < 1, i.e. device meets RF exposure requirements.

The Lyft BIT043G meets the RF exposure requirements of FCC §1.1310 Table 1 Limits for General Population/Uncontrolled Exposure.

Note: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.



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Pleasanton, California 94566, USA
Tel: +1 (925) 462 0304
Fax: +1 (925) 462 0306
www.micomlabs.com