

# RF EXPOSURE EVALUATION REPORT

**FCC ID** : QYLEM9190B  
**Equipment** : Wireless Module  
**Brand Name** : Getac  
**Model Name** : EM9190  
**Applicant** : Getac Technology Corporation.  
5F., Building A, No. 209, Sec.1, Nangang  
Rd.,Nangang Dist., Taipei City 11568, Taiwan, R.O.C.  
**Standard** : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full



Approved by: Cona Huang / Deputy Manager



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### History of this test report

Report No.	Version	Description	Issued Date
FA0D2108-01B	Rev. 01	Initial issue of report	Sep. 28, 2023



**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	Wireless Module
Brand Name	Getac
Model Name	EM9190
FCC ID	QYLEM9190B
Wireless Technology and Frequency Range	5G NR n48 : 3550 MHz ~ 3700 MHz
Mode	5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM

**Reviewed by: Jason Wang**

**Report Producer: Daisy Peng**

**2. Maximum RF average output power among production units**

Radio Tech	Band Number	Primary Transmitter Maximum Transmit Power Level (dBm)
FR1	n48	24.50



3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Table with 5 columns: Frequency range (MHz), Electric field strength (V/m), Magnetic field strength (A/m), Power density (mW/cm^2), Averaging time (minutes). It is divided into two sections: (A) Limits for Occupational/Controlled Exposures and (B) Limits for General Population/Uncontrolled Exposure.

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

S = PG / (4 \* pi \* R^2)

Where:

- S = Power Density
P = Output Power at Antenna Terminals
G = Gain of Transmit Antenna (linear gain)
R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

Table with 8 columns: Band, Antenna Gain (dBi), Maximum Power (dBm), Maximum EIRP (dBm), Maximum EIRP (W), Average EIRP (mW), Power Density at 20cm (mW/cm^2), Limit (mW/cm^2). Row 1: 5G NR n48, -1.80, 24.50, 22.7, 0.19, 186.21, 0.037, 1.000

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.