



RF EXPOSURE EVALUATION REPORT

FCC ID : TVE-111T17A
 Equipment : Network Security Gateway
 Brand Name : 
 Model Name : FortiGate 120Gxxxxxxxxxx, FG-120Gxxxxxxxxxx, FORTIGATE-120Gxxxxxxxxxx, FortiGate 121Gxxxxxxxxxx, FG-121Gxxxxxxxxxx, FORTIGATE-121Gxxxxxxxxxx (where "x" can be "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)
 Applicant : Fortinet, Inc.
 899 KIFER RD
 SUNNYVALE CA 94086
 UNITED STATES
 Manufacturer : Fortinet, Inc.
 899 KIFER RD
 SUNNYVALE CA 94086
 UNITED STATES
 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
FA380838	Rev. 01	Initial issue of report	Oct. 18, 2023



1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Network Security Gateway
Brand Name	FORTINET 
Model Name	FortiGate 120Gxxxxxxxx, FG-120Gxxxxxxxx, FORTIGATE-120Gxxxxxxxx, FortiGate 121Gxxxxxxxx, FG-121Gxxxxxxxx, FORTIGATE-121Gxxxxxxxx (where "x" can be "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)
FCC ID	TVE-111T17A
Wireless Technology and Frequency Range	Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	Bluetooth LE

Reviewed by: Jason Wang

Report Producer: Paula Chen

2. Maximum RF average output power among production units

Mode	Maximum Tune-up (dBm)
Bluetooth LE	7.5



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/cm²), 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 / (4πR²)

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

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)
Bluetooth	2.44	7.5	9.9	0.01	9.86	0.002	1.000

Conclusion:

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