

RF Exposure Evaluation Report

APPLICANT : VeriFone, Inc.
EQUIPMENT : Point of Sale Terminal
BRAND NAME : Verifone or VERIFONE or Verifone
MODEL NAME : M450 Plus-A
FCC ID : B32M4250B
STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

The product evaluation date was started from Mar. 27, 2026 and completed on Mar. 27, 2026. We, Sporton International Inc. (Kunshan), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.



Approved by: Si Zhang

Sporton International Inc. (Kunshan)

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**Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA5D0906-02	Rev. 01	Initial issue of report.	Apr. 20, 2026



1. Administration Data

1.1. Testing Laboratory

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-KS	CN1257	314309

Applicant	
Company Name	VeriFone, Inc.
Address	1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

Manufacturer	
Company Name	VeriFone, Inc.
Address	1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Point of Sale Terminal
Brand Name	Verifone or VERIFONE or Verifone
Model Name	M450 Plus-A
FCC ID	B32M4250B
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Mode	WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE NFC:ASK
Antenna Gain	WLAN2.4GHz/Bluetooth: 1.1 dBi WLAN5.2GHz: 1.0 dBi WLAN5.3GHz: 1.2 dBi WLAN5.5GHz: 1.0 dBi WLAN5.8GHz: 1.1 dBi
Antenna Type	WLAN/Bluetooth: IFA Antenna NFC: Loop Antenna
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. This is a variant report for model name M450 Plus-A, the difference is that please refer to the M450 Plus-A Product Equality Declaration which is exhibited separately. According to the difference, NFC was re-evaluated based on original report and other bands MPE analysis results are leveraged from original report (Sporton Report Number FA5D0906).

Comments and Explanations:

1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

**3. Maximum RF average output tune up power among production units****<WLAN 2.4GHz >**

Mode		Maximum Average Power (dBm)
2.4GHz	802.11b	17.00
	802.11g	16.00
	802.11n-HT20	16.00
	802.11n-HT40	13.00

< Bluetooth >

Mode		Maximum Average Power (dBm)
Bluetooth BR/EDR		13.00
Bluetooth LE		4.00

<WLAN 5GHz >

Mode		Maximum Average Power (dBm)
5.2GHz	802.11a	15.00
	802.11n-HT20	15.00
	802.11n-HT40	15.00
	802.11ac-VHT20	14.00
	802.11ac-VHT40	14.00
	802.11ac-VHT80	6.00
5.3GHz	802.11a	15.00
	802.11n-HT20	15.00
	802.11n-HT40	15.00
	802.11ac-VHT20	14.00
	802.11ac-VHT40	14.00
	802.11ac-VHT80	6.00
5.5GHz	802.11a	15.50
	802.11n-HT20	15.00
	802.11n-HT40	15.00
	802.11ac-VHT20	14.00
	802.11ac-VHT40	14.00
	802.11ac-VHT80	13.00
5.8GHz	802.11a	15.50
	802.11n-HT20	15.50
	802.11n-HT40	15.50
	802.11ac-VHT20	15.00
	802.11ac-VHT40	15.00
	802.11ac-VHT80	13.00



4. 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.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

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:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	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)
2.4GHz WLAN	2412.0	1.10	17.00	18.100	0.065	64.565	0.013	1.000
5.2GHz WLAN	5180.0	1.00	15.00	16.000	0.040	39.811	0.008	1.000
5.3GHz WLAN	5260.0	1.20	15.00	16.200	0.042	41.687	0.008	1.000
5.5GHz WLAN	5500.0	1.00	15.50	16.500	0.045	44.668	0.009	1.000
5.8GHz WLAN	5745.0	1.10	15.50	16.600	0.046	45.709	0.009	1.000
Bluetooth	2402.0	1.10	13.00	14.100	0.026	25.704	0.005	1.000
NFC	13.56			-18.030	0.00002	0.016	0.000003	0.979

Note:

1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum power to do MPE analysis.
3. According to the EUT characteristic, WLAN and Bluetooth can't transmit simultaneously.
4. According to the EUT characteristic, WLAN 2.4GHz and WLAN 5GHz can't transmit simultaneously.
5. NFC maximum EIRP power calculate from NFC E-Field level from RF test report which can be referred to Sproton No: FR5D0906-02D.
 - 1) This device maximum E-Field level is 77.20 dBuV/m at 3m, so the EIRP power is -18.03 dBm(0.016mW).
 - 2) Pout EIRP (dBm) = Field Strength of Fundamental (dBuV/m) - 95.23 (dB)

Conclusion:

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

-----THE END-----