

RF Exposure Evaluation Report

APPLICANT : FUJIAN LANDI COMMERCIAL EQUIPMENT CO.,LTD.
EQUIPMENT : Portable Data Terminal
BRAND NAME : LANDI
MODEL NAME : P10A01
FCC ID : 2AG6N-P10AC
STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

The product evaluation date was started from Apr. 09, 2026 and completed on Apr. 09, 2026. We, Sporton International Inc. (Shenzhen), 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. (Shenzhen), the test report shall not be reproduced except in full.

Hank Huang



Approved by: Hank Huang

Sporton International Inc. (Shenzhen)

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People's Republic of China



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA5D0904-01	Rev. 01	Initial issue of report	Apr. 13, 2026



1. Administration Data

1.1. Testing Laboratory

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ	CN1256	421272

Applicant			
Company Name	FUJIAN LANDI COMMERCIAL EQUIPMENT CO.,LTD.		
Address	Building 17, Area A, Software Park, No.89 Municipality, Fujian Province, China. 350003	Software Avenue, Gulou	District, Fuzhou

Manufacturer			
Company Name	FUJIAN LANDI COMMERCIAL EQUIPMENT CO.,LTD.		
Address	Building 17, Area A, Software Park, No.89 Municipality, Fujian Province, China. 350003	Software Avenue, Gulou	District, Fuzhou

2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Portable Data Terminal
Brand Name	LANDI
Model Name	P10A01
FCC ID	2AG6N-P10AC
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 38: 2570 MHz ~ 2620 MHz 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 ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Mode	GPRS/EGPRS RMC 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM WLAN 2.4GHz 802.11b/g WLAN 2.4GHz 802.11n HT20/HT40 WLAN 5GHz 802.11a WLAN 5GHz 802.11n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE NFC:ASK
Antenna Gain	GSM850: -1.94 dBi GSM1900: 1.5 dBi WCDMA Band II: 1.5 dBi WCDMA Band IV: 2.81 dBi WCDMA Band V: -1.94 dBi LTE Band 2: 1.5 dBi LTE Band 4: 2.81 dBi LTE Band 5: -1.94 dBi LTE Band 7: 1.36 dBi LTE Band 38: 1.43 dBi WLAN2.4GHz/Bluetooth: 2.22 dBi WLAN5.2GHz: 3.11 dBi WLAN5.3GHz: 2.59 dBi WLAN5.5GHz: 4.33 dBi WLAN5.8GHz: 4.90 dBi
Antenna Type	WWAN : FPC Antenna WLAN/Bluetooth: FPC Antenna NFC: FPC Antenna
EUT Stage	Production Unit
Remark: 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.	

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

<GSM>

Mode	Burst average power(dBm)	
	GSM 850	GSM 1900
GPRS (GMSK, 1 Tx slot)	35.00	32.00
GPRS (GMSK, 2 Tx slots)	34.00	31.00
GPRS (GMSK, 3 Tx slots)	32.00	29.00
GPRS (GMSK, 4 Tx slots)	30.50	27.50
EDGE (8PSK, 1 Tx slot)	30.00	29.00
EDGE (8PSK, 2 Tx slots)	28.50	27.50
EDGE (8PSK, 3 Tx slots)	26.50	25.50
EDGE (8PSK, 4 Tx slots)	25.50	24.50

<WCDMA>

Mode		Maximum Average power(dBm)
WCDMA	Band II	25.00
	Band IV	25.00
	Band V	25.00

<LTE>

Mode		Maximum Average power(dBm)
LTE	Band 2	25.00
	Band 4	25.00
	Band 5	25.00
	Band 7	25.00
	Band 38	25.00

<2.4GHz WLAN>

Frequency	Mode	Maximum Average Power (dBm)
WLAN 2.4GHz	802.11b	19.50
	802.11g	19.50
	802.11n-HT20	17.50
	802.11n-HT40	17.50

**<Bluetooth>**

Frequency	Mode	Maximum Average Power (dBm)
Bluetooth	BR/EDR	11.00
	LE	7.00

<5GHz WLAN>

Frequency	Mode	Maximum Average Power (dBm)
WLAN 5.2GHz	802.11a	18.50
	802.11n-HT20	18.50
	802.11n-HT40	18.50
	802.11ac-VHT20	18.50
	802.11ac-VHT40	18.00
	802.11ac-VHT80	14.00
WLAN 5.3GHz	802.11a	18.50
	802.11n-HT20	18.50
	802.11n-HT40	18.50
	802.11ac-VHT20	18.50
	802.11ac-VHT40	18.00
	802.11ac-VHT80	15.00
WLAN 5.5GHz	802.11a	18.50
	802.11n-HT20	18.50
	802.11n-HT40	18.50
	802.11ac-VHT20	18.50
	802.11ac-VHT40	18.00
	802.11ac-VHT80	15.00
WLAN 5.8GHz	802.11a	18.50
	802.11n-HT20	18.50
	802.11n-HT40	18.50
	802.11ac-VHT20	18.50
	802.11ac-VHT40	18.00
	802.11ac-VHT80	17.50

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)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
GPRS 850 (1 Tx slot)	824	-1.94	35.00	33.060	254.683	0.051	0.549	0.092
GPRS 850 (2 Tx slots)	824	-1.94	34.00	32.060	403.645	0.080	0.549	0.146
GPRS 850 (3 Tx slots)	824	-1.94	32.00	30.060	380.189	0.076	0.549	0.138
GPRS 850 (4 Tx slots)	824	-1.94	30.50	28.560	359.749	0.072	0.549	0.130
EGPRS 850 (1 Tx slot)	824	-1.94	30.00	28.060	80.538	0.016	0.549	0.029
EGPRS 850 (2 Tx slots)	824	-1.94	28.50	26.560	113.763	0.023	0.549	0.041
EGPRS 850 (3 Tx slots)	824	-1.94	26.50	24.560	107.152	0.021	0.549	0.039
EGPRS 850 (4 Tx slots)	824	-1.94	25.50	23.560	113.763	0.023	0.549	0.041
GPRS 1900 (1 Tx slot)	1850	1.50	32.00	33.500	281.838	0.056	1.000	0.056
GPRS 1900 (2 Tx slots)	1850	1.50	31.00	32.500	446.684	0.089	1.000	0.089
GPRS 1900 (3 Tx slots)	1850	1.50	29.00	30.500	420.727	0.084	1.000	0.084
GPRS 1900 (4 Tx slots)	1850	1.50	27.50	29.000	398.107	0.079	1.000	0.079
EGPRS 1900 (1 Tx slot)	1850	1.50	29.00	30.500	141.254	0.028	1.000	0.028
EGPRS 1900 (2 Tx slots)	1850	1.50	27.50	29.000	199.526	0.040	1.000	0.040
EGPRS 1900 (3 Tx slots)	1850	1.50	25.50	27.000	187.932	0.037	1.000	0.037
EGPRS 1900 (4 Tx slots)	1850	1.50	24.50	26.000	199.526	0.040	1.000	0.040
WCDMA Band 2	1850.0	1.50	25.00	26.500	446.684	0.089	1.000	0.089
WCDMA Band 4	1710.0	2.81	25.00	27.810	603.949	0.120	1.000	0.120
WCDMA Band 5	824.0	-1.94	25.00	23.060	202.302	0.040	0.549	0.073
LTE Band 2	1850.0	1.50	25.00	26.500	446.684	0.089	1.000	0.089
LTE Band 4	1710.0	2.81	25.00	27.810	603.949	0.120	1.000	0.120
LTE Band 5	824.0	-1.94	25.00	23.060	202.302	0.040	0.549	0.073
LTE Band 7	2500.0	1.36	25.00	26.360	432.514	0.086	1.000	0.086
LTE Band 38	2570.0	1.43	25.00	26.430	439.542	0.087	1.000	0.087
Bluetooth	2402.0	2.22	11.00	13.220	20.989	0.004	1.000	0.004
2.4GHz WLAN	2412.0	2.22	19.50	21.720	148.594	0.030	1.000	0.030
5.2GHz WLAN	5180.0	3.11	18.50	21.610	144.877	0.029	1.000	0.029
5.3GHz WLAN	5260.0	2.59	18.50	21.090	128.529	0.026	1.000	0.026
5.5GHz WLAN	5500.0	4.33	18.50	22.830	191.867	0.038	1.000	0.038
5.8GHz WLAN	5745.0	4.90	18.50	23.400	218.776	0.044	1.000	0.044
NFC	13.6			-18.940	0.013	0.000003	0.979	0.000003

Note:

- For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
- Chose the maximum power to do MPE analysis.
- NFC maximum EIRP power calculate from NFC E-Field level from RF test report which can be referred to Sporton No: FR5D0904-01D.
 - This device maximum E-Field level is 76.29dBuV/m at 3m, so the EIRP power is -18.94dBm(0.013mW).
 - Pout EIRP (dBm) = Field Strength of Fundamental (dBuV/m) - 95.23 (dB)

**5.2. Collocated Power Density Calculation**

WWAN Power Density / Limit	WLAN2.4 GHz Power Density / Limit	NFC Power Density / Limit	Σ (Power Density / Limit) of WWAN+ WLAN 2.4GHz + NFC
0.146	0.030	0.000003	0.176

WWAN Power Density / Limit	WLAN5GHz Power Density / Limit	Bluetooth Power Density / Limit	NFC Power Density / Limit	Σ (Power Density / Limit) of WWAN+ WLAN 5GHz + Bluetooth + NFC
0.146	0.044	0.004	0.000003	0.194

Note:

1. According to the EUT characteristic, WLAN 2.4GHz and Bluetooth can't transmit simultaneously.
2. According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
3. According to the EUT characteristic, WLAN 2.4GHz and WLAN 5GHz can't transmit simultaneously.
4. According to the EUT characteristic, NFC and WLAN 2.4/5GHz/Bluetooth can transmit simultaneously.
5. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + WLAN2.4GHz + NFC or WWAN + WLAN5GHz + Bluetooth+NFC.
6. Considering all transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of collocated transmitters is compliant.

Conclusion:

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

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