

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

RF Exposure MPE

Report Reference No...... CTA25082800302

FCC ID.....: 2BR7F-A99

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Date of issue Sep. 05, 2025

Address....... Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name...... Shenzhen Pasens Auto Electronic Co., Ltd.

2F Building3, Fumingsheng Industrial Zone, LiYuanRoad, Fuyong

Bao'an District, Shenzhen, China

47CFR §1.1310

Standard 47CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

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Test item description Driving Recorder

Trade Mark N/A

Manufacturer Shenzhen Pasens Auto Electronic Co., Ltd.

Model/Type reference A99

Listed Models Refer to page 2

Rating Input: 5V=-- 2.5A

Result PASS

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TEST REPORT

Equipment under Test : Driving Recorder

Model /Type : A99

Listed Models : F1, F2, F3, F22, F33, F5, F55, F6, F66, F8, F88, F9, F99, F888, F999,

K168, K11, K12, K13, K16, K18, K188, A1, A2PRO, A66, A68, A88, C3S, C5S, G688, G55, G198, G99, M1, M8, M9, Y11, S8PRO, S8,

Z98, V1,A5, A55, V6, V66, V68, V8, V88, V9, V98

The PCB board, circuit, structure and internal of these models are the

same, Only model number and colour is different for these model.

Applicant : Shenzhen Pasens Auto Electronic Co., Ltd.

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Manufacturer : Shenzhen Pasens Auto Electronic Co., Ltd.

Address : 2F Building3, Fumingsheng Industrial Zone, LiYuanRoad, Fuyong

Bao'an District, Shenzhen, China

Test Result: PASS

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1-1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

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SUMMARY

General Remarks

Date of receipt of test sample	. <	Aug. 28, 2025		NG
The state of the s	C,			GTIN
Testing commenced on	:	Aug. 28, 2025		TES
To the second se			C	
Testing concluded on	:	Sep. 05, 2025	CAL	

2.2 Product Description

	9	23 3417	
	Testing concluded on	: Sep. 05, 2025	
	2.2 Product Descript	tion	CIL CIL
ESTIN	Product Name:	Driving Recorder	
CTATESTIN	Model/Type reference:	A99	
	Power supply:	Input: 5V=== 2.5A	
	Car charger information:	Input: 12-24Vdc, 2A Output: 5Vdc, 2500mA	-16
	Hardware version:	V1.0	TESTING
	Software version:	V1.0	CTA
	Testing sample ID:	CTA250828003-1# (Engineer sample) CTA250828003-2# (Normal sample)	

	- 1				
	5GWIFI				
	TATESTING	20MHz system	40MHz system	80MHz system	160MHz system
Car C	Supported type:	802.11a 802.11n 802.11ac	802.11n 802.11ac	N/A	N/A
.0	Operation frequency:	5180MHz-5240MHz 5745MHz-5825MHz	5190MHz- 5230MHz 5755MHz- 5795MHz	N/A	N/A
ESTING	Modulation:	OFDM	OFDM	N/A	N/A
CTATESTING	Channel number:	9	4	N/A	N/A
	Channel separation:	20MHz	40MHz	N/A	N/A
	Antenna type:	PIFA Antenna	STING		
	Antenna gain:	3.78 dBi for 5745-5825	MHz		.NG

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Descr	iption	Manufacturer	Model	Technical Parameters	Certificate	Provided by
1	STI	_	1	1	/	1

Modifications

No modifications were implemented to meet testing criteria.

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3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Baoʻan District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd.:

Test	Range	Measurement Uncertainty	Notes	
Radiated Emission	9KHz~30MHz	3.02 dB	(1)	
Radiated Emission	30~1000MHz	4.06 dB	(1)	
Radiated Emission	1~18GHz	5.14 dB	(1)	
Radiated Emission	18-40GHz	5.38 dB	(1)	ING
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	STIN
Output Peak power	30MHz~18GHz	0.55 dB	(1)	LE-
Power spectral density	/	0.57 dB	(1)	
Spectrum bandwidth	/	1.1%	(1)	
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)	
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)	
Time	LEO 1	±2%	(1)	
GIV.		CTATEST		

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<u>Test limit</u>

Requirement 4.1

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

751019			1 /: -		
	Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
		Limits for Occ	upational/Control	led Exposure	
CTATESTING	0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 1842/f 61.4 /	1.63 4.89/f 0.163 /	(100) * (900/f ²)* 1.0 f/300 5	6 6 6 6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Limits for Maximu	ım Permissible Ex	(posure (MPE)/Ur	ncontrolled Expos	sure			
Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)	STING		
	Limits for Occ	upational/Control	led Exposure	Carl C.			
0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 824/f 27.5 /	1.63 2.19/f 0.073 /	(100) * (180/f ²)* 0.2 f/1500 1.0	30 30 30 30 30 30			
F=frequency in MHz *=Plane-wave equivalent power density							
4.2 MPE Calculation Method							

4.2 MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

S=PG/4πR²

Where: S=power density P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

Conducted Power Results

Test Mode	Antenna	Freq(MHz)	Result [dBm]
		5745	12.86
11A	Ant1 5745 12 Ant1 5785 12 5825 12 5745 13 Ant1 5785 13 Ant1 5785 13 5825 12 Ant1 5755 13	12.45	
JNG		5825	12.73
-55711		5745	13.50
11N20SISO	Ant1	5785	13.29
		5825	12.80
11N40SISO	Ant1	5755	13.02
1111403130	Aliti	5795	12.72
			TATESTIN

^{*=}Plane-wave equivalent power density

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4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
5GWIFI	13.50	13.0±1

4.5 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

	Outp	ut power	Antenna	Antenna	MPE	MPE
Modulation Type	dBm	mW	Gain	Gain	(mW/cm ²)	Limits
	ubili	IIIVV	(dBi)	(linear)	(IIIVV/CIII-)	(mW/cm ²)
5GWIFI	14.0	25.1189	3.78	2.3878	0.0119	1.0000

Remark:

- 1. Output power (Average) including turn-up tolerance;
- 2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

4.6 Simultaneous Transmission for MPE Result

N/A

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

Shenzhen CTA Testing Technology Co., Ltd.